

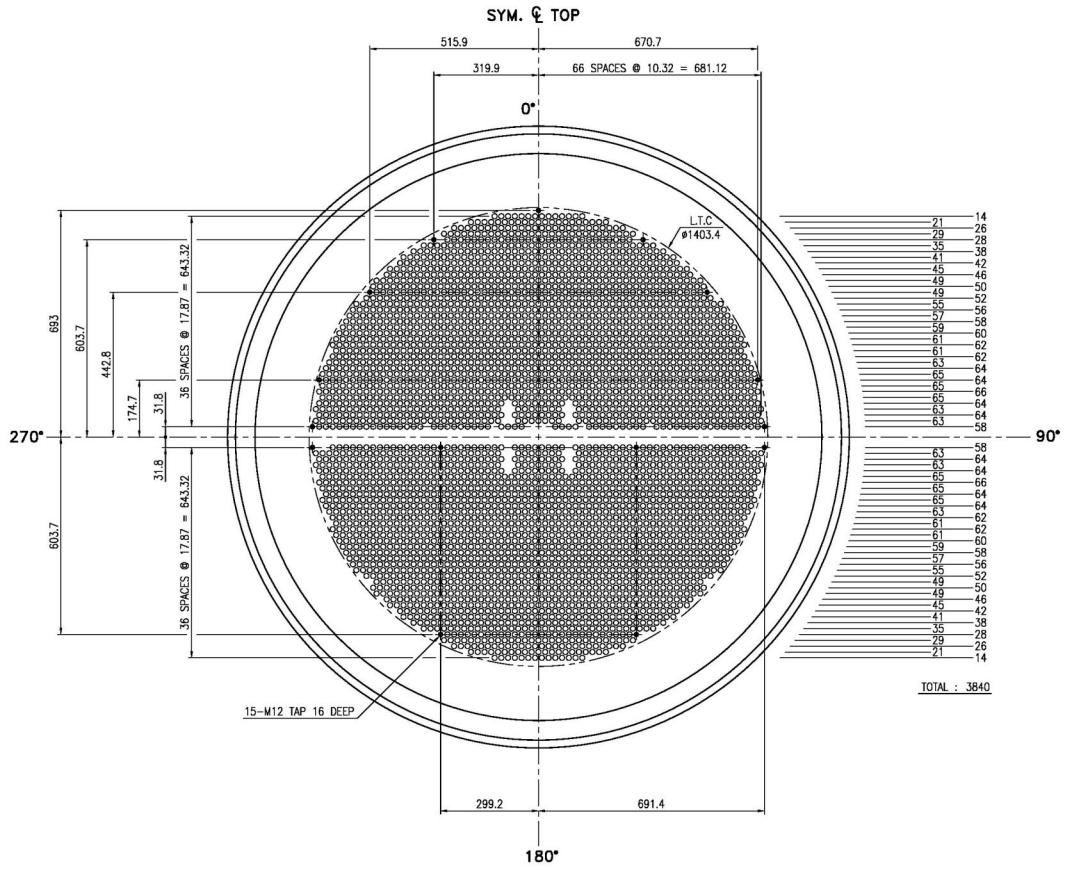
NO.	DESCRIPTION	MATERIAL	QTY	SPECIFICATION	WT (kg)		REMARK
					UNIT	TOTAL	
1	TUBE SHEET	SA350-LF2	1	1462 x #1902	-	10254.6	
2	CLAD PLATE	SS 309L/308L	1	B (BEFORE MACHINE) x #1418.2	-	99.2	B BEFORE MACHINE

TOTAL WEIGHT = 10353.8 kg

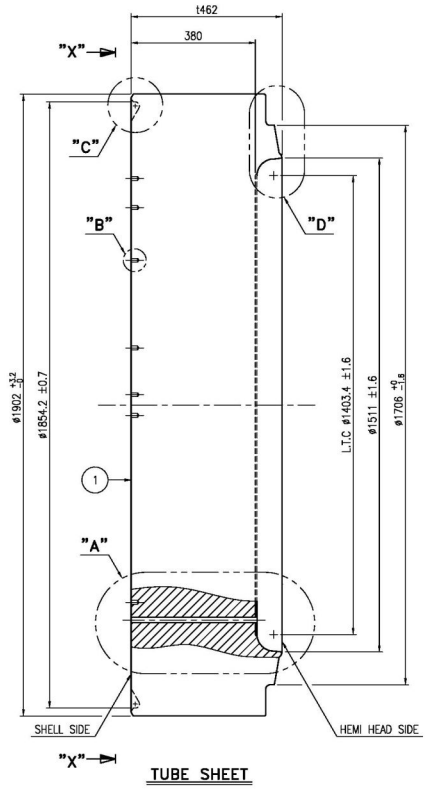
** QUANTITY SHOWN IS FOR ONE(1) JOB, TWO(2) JOBS REQUIRED.

NOTES

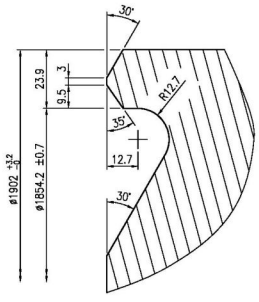
1. 영어와 한글이 상충되면 영어를 우선으로 한다.



TOTAL : 3840



TUBE SHEET



DETAIL "C"

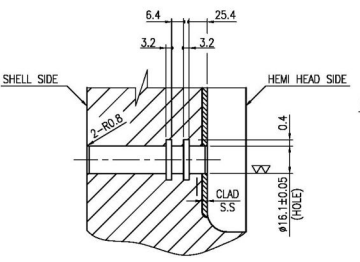
VIEW "X-X"

DRILL & TAP 15 HOLES FOR M12 THREADS
16 DEEP SHELL SIDE FOR TIE RODS. (SHOWN ◆)

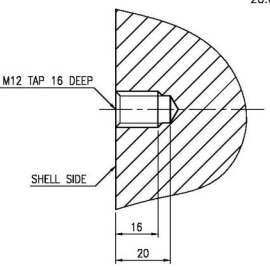
3840 HOLES FINISH TO 16.1 ±0.05 DIA.
FOR 15.88 O.D TUBES. CHAMFER AND DOUBLE GROOVE
TUBE HOLES PER DETAIL "A". USE TEMPLATE FOR LAYOUT.
TUBE HOLES FINISH 125 RMS
20.64 PITCH @ TRI 60°
L.T.C DIA. = 1403.4 DIA.
(SYM ABOUT TOP & HTR C.L'S EXCEPT 1ST. ROW SLANTED)

TIE ROD와 결합되는 15개의 드릴링 & 탭핑홀은
M12에 길이 16mm로 가공한다.

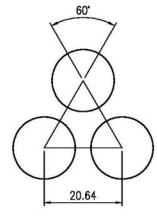
3840개의 HOLES는 15.88 O.D TUBE를 위해
16.1 ±0.05 DIA.로 풀고, DETAIL "A"에 의해
TUBE HOLES를 CHAMFER와 DOUBLE GROOVE를 가공하라.
TUBE HOLE 조도는 125 RMS이며,
20.64 PITCH @ TRI 60°로 완성된다.



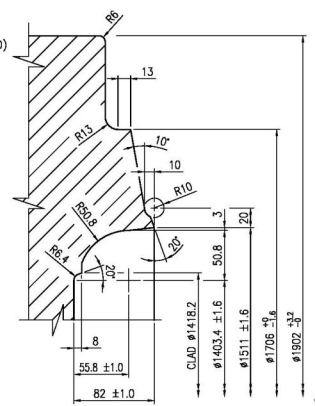
DETAIL "A"



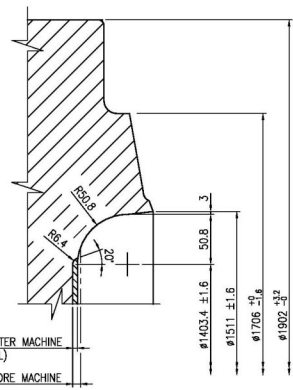
DETAIL "B"



TUBE PATTERN



DETAIL "D" (BEFORE OVERLAY)

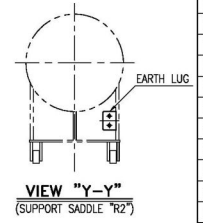
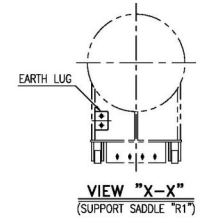
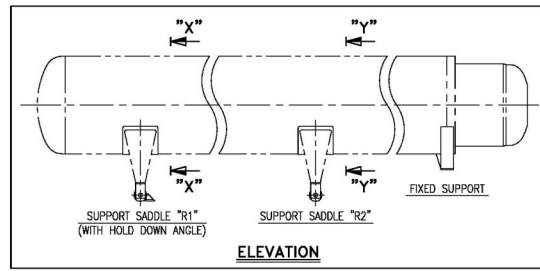
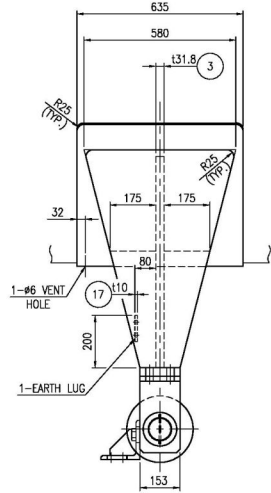
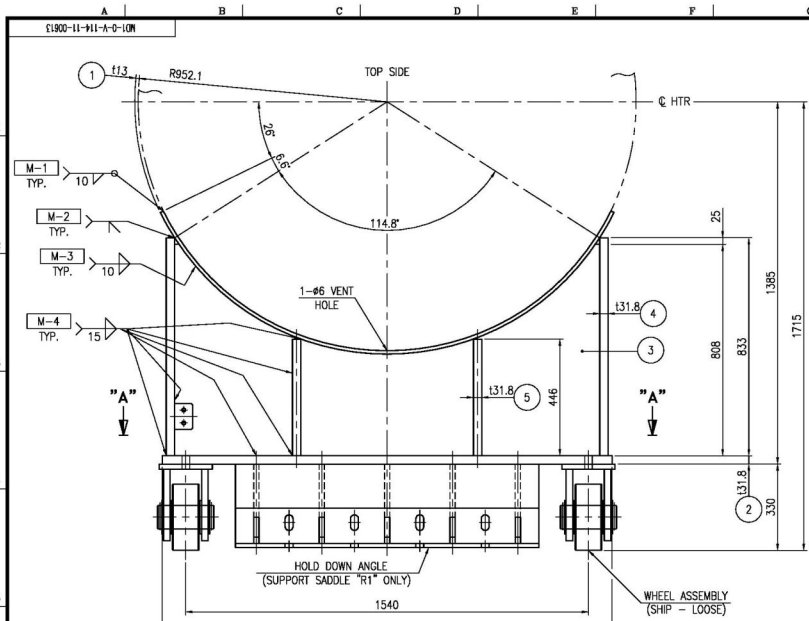


DETAIL "D" (AFTER OVERLAY)

MIN. 5 DEPOSIT TH'K AFTER MACHINE
(S.S 309L/308L)

② B DEPOSIT TH'K BEFORE MACHINE





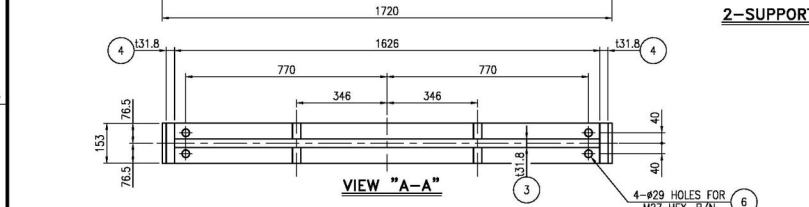
NO.	DESCRIPTION	MATERIAL	Q'TY	SPECIFICATION	UNIT	TOTAL	REMARK
1	REINF. PAD	SA516-70	2	113 x 635 x 2141.5	138.8	277.6	
2	BASE PLATE	SA516-70	2	131.8 x 153 x 1720	65.7	131.4	
3	WEB PLATE	SA516-70	2	131.8 x 808 x 1626	328.0	656.0	
4	RIB PLATE	SA516-70	4	131.8 x 580 x 833	120.6	482.4	
5	RIB PLATE	SA516-70	8	131.8 x 175 x 446	19.5	156.0	
6	HEX. B/N	A193-B7/A194-20	8	M27 - 85L	0.4	3.2	SHIP - LOOSE
7	HOLD DOWN PLATE	SA283-C	1	120 x 270 x 1160	-	49.2	
8	STIFFENER PLATE	SA516-70	5	120 x 100 x 270	4.2	21.0	
9	HOLD DOWN ANGLE	SS400	1	1150 x 150 x 15 - 1160L	-	39.0	
10	RIB PLATE	SA283-C	5	120 x 100 x 100	1.13	5.65	
11	HEX. B/N	A193-B7/A194-20	4	M27 - 70L	0.3	1.2	
NOT USED							
13	BASE PLATE	SA283-C	1	125 x 203 x 1740	-	69.3	
14	WEB PLATE	SA283-C	1	120 x 755 x 1676	-	198.7	
15	RIB PLATE	SA283-C	2	120 x 203 x 780	24.9	49.8	
16	RIB PLATE	SA283-C	2	120 x 310 x 260	12.7	25.4	
17	EARTH LUG	304SS	2	110 x 70 x 100	0.5	1.0	
18	TOP PLATE	SA283-C	4	120 x 153 x 203	4.9	19.6	SHIP - LOOSE
19	BRACKET	SA283-C	8	125 x 153 x 273	8.2	65.6	SHIP - LOOSE
20	SHAFT	CS	4	#89 - 215.9L	10.5	42.0	SHIP - LOOSE
21	WHEEL	A105	4	1101.6 x #254	40.4	161.6	SHIP - LOOSE
22	PLAIN WASHER	SA516-70	16	16 x 1.0 92 x 0.0 129	0.3	4.8	SHIP - LOOSE
23	SPLIT PIN	SW1W12	8	#6.3 - 110L	0.1	0.8	SHIP - LOOSE

TOTAL WEIGHT = 2371.3 kg

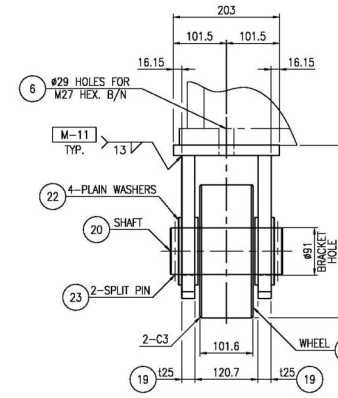
** QUANTITY SHOWN IS FOR ONE(1) JOB, TWO(2) JOBS REQUIRED.

NOTES

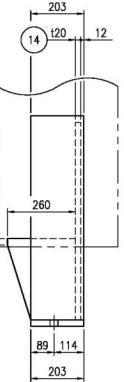
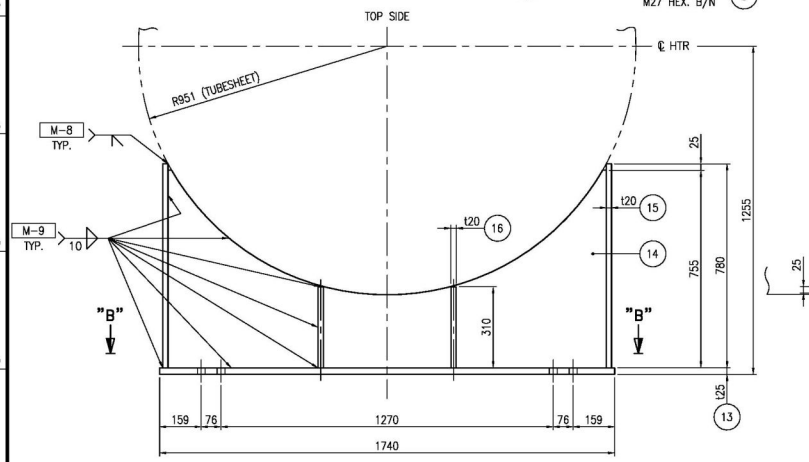
1. WELD JOINT NO. : M-1 ~ M-11.



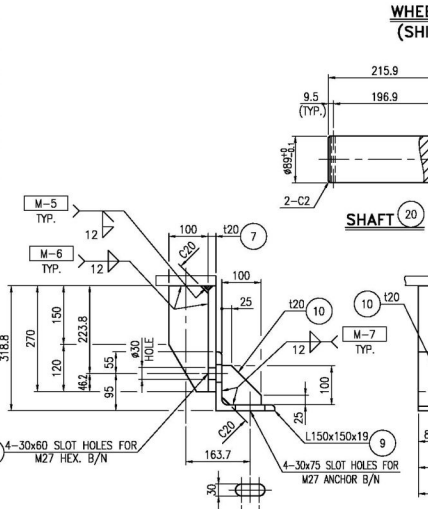
2-SUPPORT SADDLES



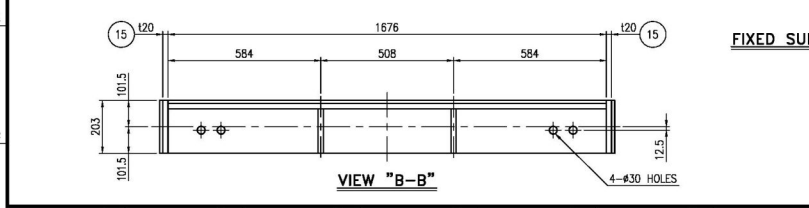
WHEEL ASSEMBLY (SHIP - LOOSE)



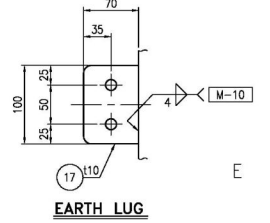
FIXED SUPPORT



HOLD DOWN ANGLE DETAIL

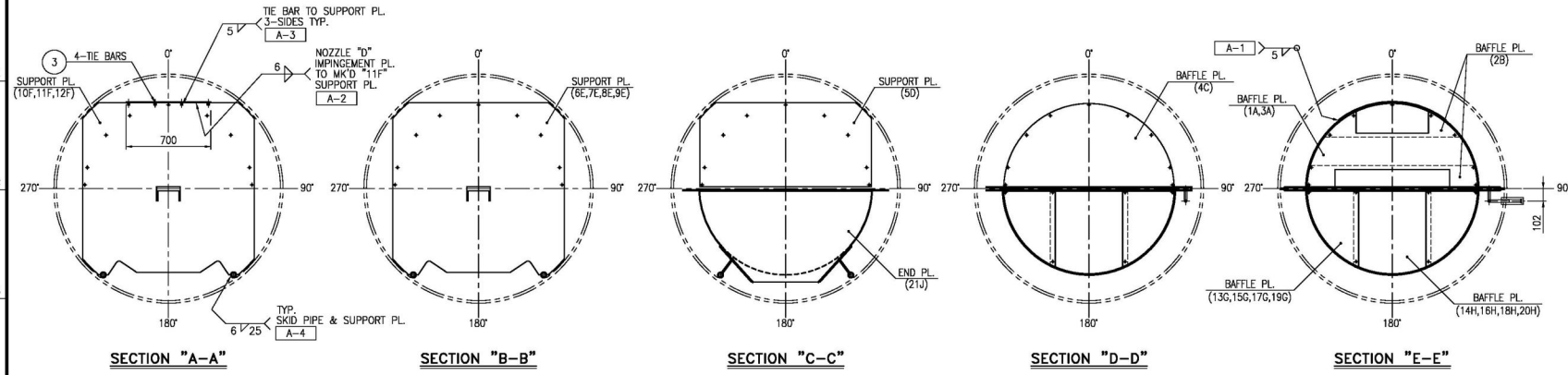


VIEW 'B-B'



EARTH LUG





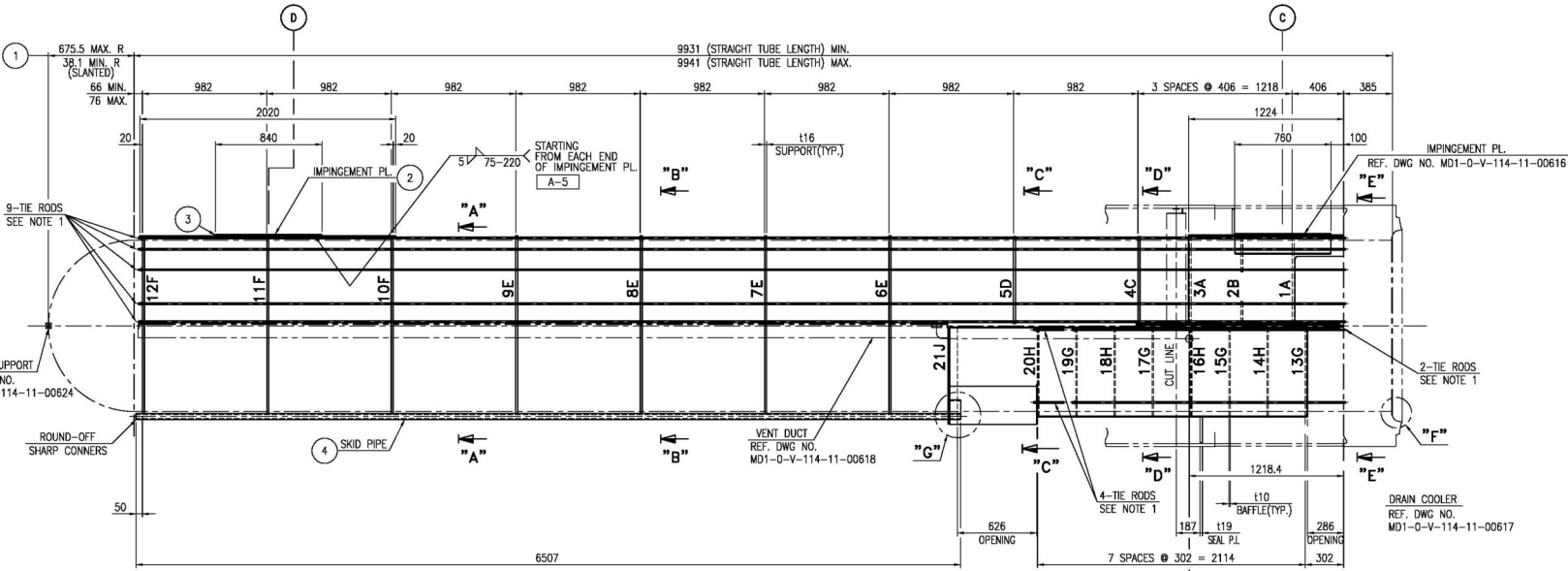
NO.	DESCRIPTION	MATERIAL	Q'TY	SPECIFICATION	WT.(kg)		REMARK
					UNIT	TOTAL	
1	U-TUBE	SX13-1P3W	1920	ØD 15.875 x t1.83 (Avg)	6.5	12480.0	HEAVY WALL (2.01 (Avg))
2	IMPINGEMENT PLATE	SA240-304	1	110 x 700 x 840	-	46.2	
3	TIE BAR	304SS	4	t16 x 16 x 2020	4.1	16.4	
4	SKID PIPE	SA106-B	2	1 1/2" SCH160 - 650L	47.5	95.0	
5	SUPPORT PLATE	SA16-70	2	t13 x 87 x 133.6	1.2	2.4	

TOTAL WEIGHT = 12640.0 kg

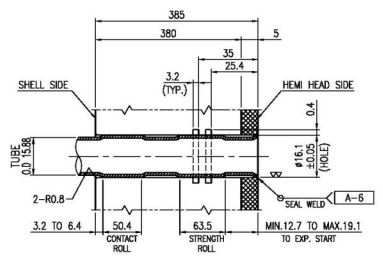
** QUANTITY SHOWN IS FOR ONE(1) JOB, TWO(2) JOBS REQUIRED.

NOTES

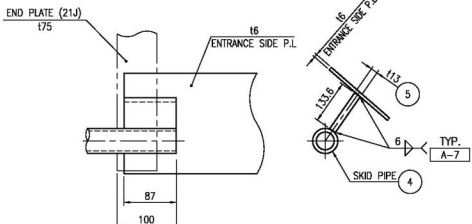
1. TACKWELD TIE ROD NUTS TO TIE RODS, SUPPORT & BAFFLE PL'S TIE ROD 너트와 TIE ROD, SUPPORT 와 BAFFLE PL간 가용접 한다.
2. REMOVE SHARP EDGES FROM IMP. PL'S IMP. PL에서 날카로운모서리는 제거 한다.
3. 용어와 한글이 상충되면 용어를 우선으로 한다.
4. WELD JOINT NO. : A-1 ~ A-7.



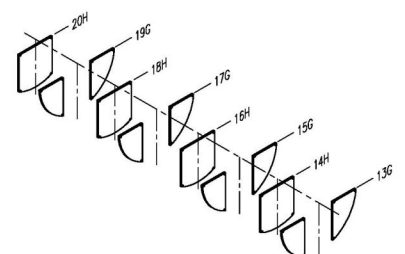
ELEVATION



DETAIL "F"

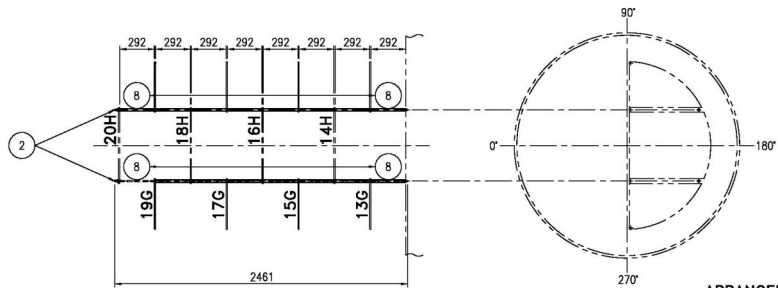
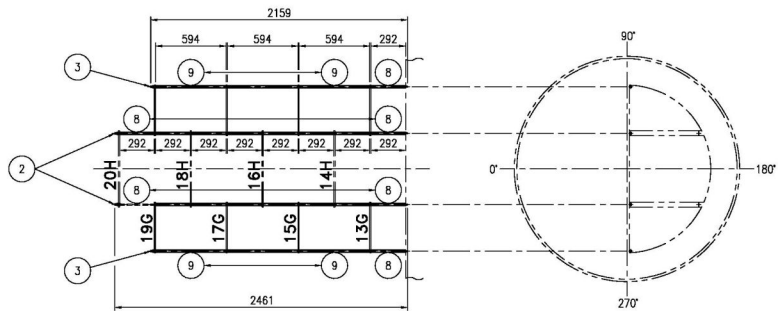
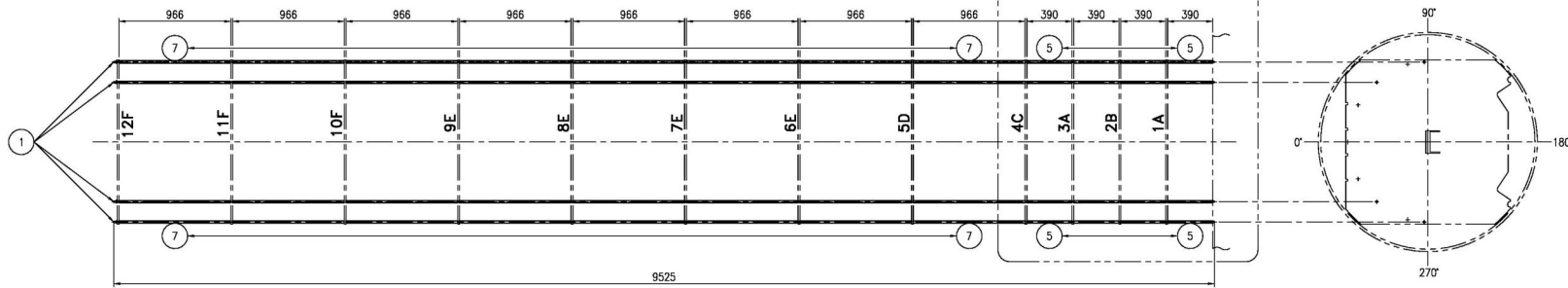
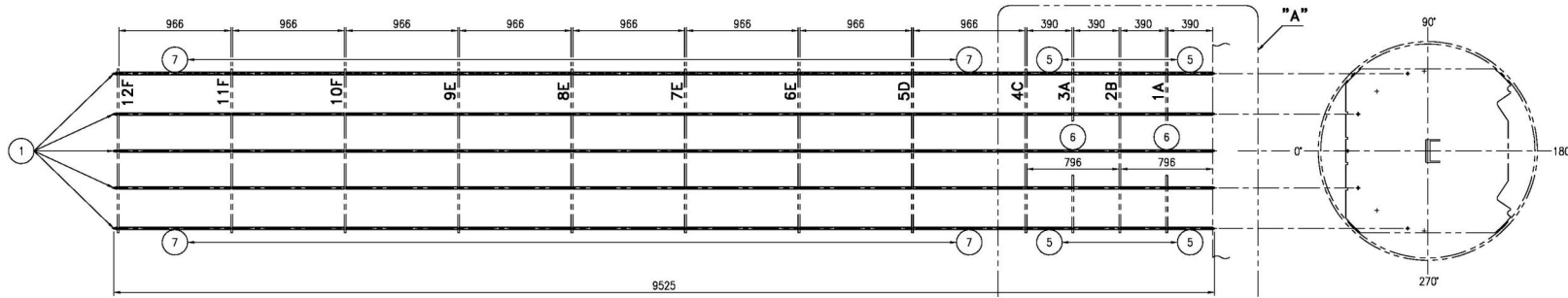


DETAIL "G"

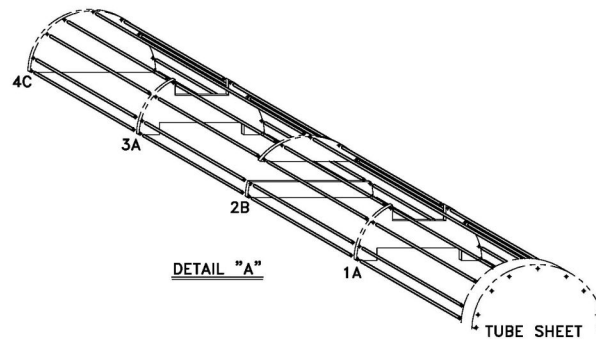


BAFFLE PLATE ARRANGEMENT





ARRANGEMENT OF TIE ROD & SPACE



DETAIL "A"

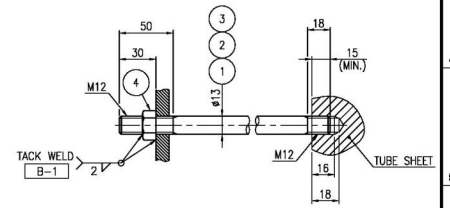
NO.	DESCRIPTION	MATERIAL	Q'TY	SPECIFICATION	WT (kg)		REMARK
					UNIT	TOTAL	
1	TIE ROD	C.S	9	#13 x 9525L	9.9	89.1	
2	TIE ROD	C.S	4	#13 x 2461L	2.6	10.4	
3	TIE ROD	C.S	2	#13 x 2159L	2.2	4.4	
4	HEX. NUT	SA194-2H	15	M12	0.1	1.5	
5	SPACER	SA63-B	32	1/2" SCH.40 - 390L	0.5	16.0	
6	SPACER	SA63-B	2	1/2" SCH.40 - 796L	1.0	2.0	
7	SPACER	SA63-B	72	1/2" SCH.40 - 966L	1.3	93.6	
8	SPACER	SA63-B	34	1/2" SCH.40 - 292L	0.4	13.6	
9	SPACER	SA63-B	6	1/2" SCH.40 - 594L	0.8	4.8	

TOTAL WEIGHT = 235.4 kg

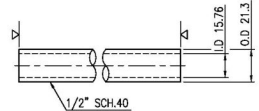
** QUANTITY SHOWN IS FOR ONE(1) JOB, TWO(2) JOBS REQUIRED.

NOTES

- SPACER LENGTH TOL. ± 0.076 [± 0.003 "].
LENGTH OF ALL SPACERS WITH SAME DASH NO. TO BE WITHIN ± 0.076 [± 0.003 "].
간격의 허용반차는 ± 0.076 [± 0.003 "]이다.
모든 간격의 길이는 같은 용부 NO에서 0.076 [0.003 "]이하 이다.
- WELD JOINT NO. : B-1.

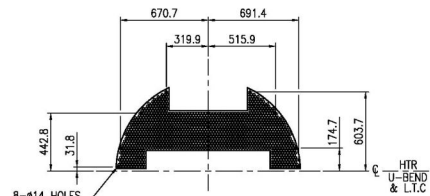


DETAIL OF TIE ROD/2NUTS



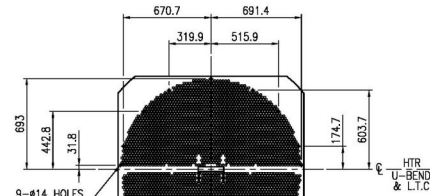
DETAIL OF SPACER





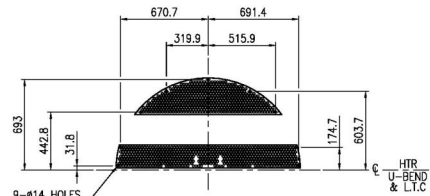
BAFFLE PLATE DRILLING

DRILL 1214-#16.28²⁵ HOLES IN PL'S MK'D "A" FOR 15.88 O.D TUBES. USE DRILLING TEMPLATE FOR LAYOUT. CUT AND MARK AS SHOWN AT DETAILS. AFTER ALL OTHER MACHINING IS COMPLETE, DE-BURR & CHAMFER TUBE HOLES BOTH SIDES.



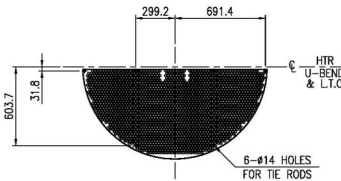
SUPPORT PLATE DRILLING

DRILL 3840-#16.28²⁵ HOLES IN PL'S MK'D "E" & "F" FOR 15.88 O.D TUBES. USE DRILLING TEMPLATE FOR LAYOUT. CUT AND MARK AS SHOWN AT DETAILS. AFTER ALL OTHER MACHINING IS COMPLETE, DE-BURR & CHAMFER TUBE HOLES BOTH SIDES.



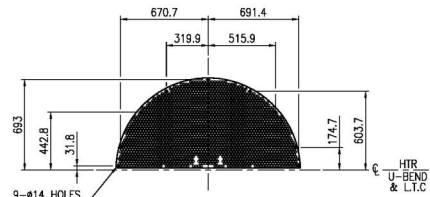
BAFFLE PLATE DRILLING

DRILL 1085-#16.28²⁵ HOLES IN PL'S MK'D "B" FOR 15.88 O.D TUBES. USE DRILLING TEMPLATE FOR LAYOUT. CUT AND MARK AS SHOWN AT DETAILS. AFTER ALL OTHER MACHINING IS COMPLETE, DE-BURR TUBE HOLES BOTH SIDES.



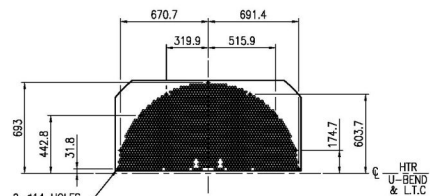
BAFFLE PLATE DRILLING

DRILL 1920-#16.28²⁵ HOLES IN PL'S MK'D "G" & "H" FOR 15.88 O.D TUBES. USE DRILLING TEMPLATE FOR LAYOUT. CUT AND MARK AS SHOWN AT DETAILS. AFTER ALL OTHER MACHINING IS COMPLETE, DE-BURR & CHAMFER TUBE HOLES BOTH SIDES.



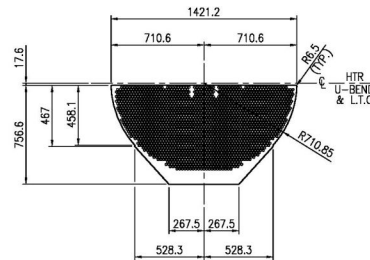
BAFFLE PLATE DRILLING

DRILL 1920-#16.28²⁵ HOLES IN PL'S MK'D "C" FOR 15.88 O.D TUBES. USE DRILLING TEMPLATE FOR LAYOUT. CUT AND MARK AS SHOWN AT DETAILS. AFTER ALL OTHER MACHINING IS COMPLETE, DE-BURR & CHAMFER TUBE HOLES BOTH SIDES.



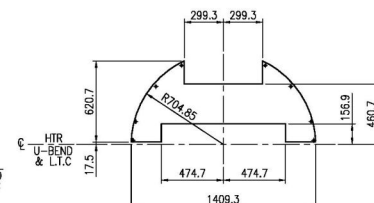
SUPPORT PLATE DRILLING

DRILL 1920-#16.13²⁰ HOLES IN PL'S MK'D "D" FOR 15.88 O.D TUBES. USE DRILLING TEMPLATE FOR LAYOUT. CUT AND MARK AS SHOWN AT DETAILS. AFTER ALL OTHER MACHINING IS COMPLETE, DE-BURR & CHAMFER TUBE HOLES BOTH SIDES.

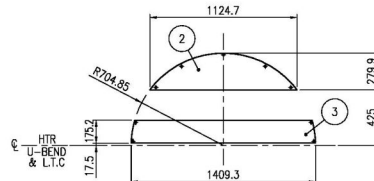


1-END PLATE (21J)

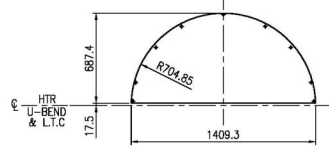
DRILL 1920-#16.13²⁰ HOLES IN PL'S MK'D "J" FOR 15.88 O.D TUBES. USE DRILLING TEMPLATE FOR LAYOUT. CUT AND MARK AS SHOWN AT DETAILS. AFTER ALL OTHER MACHINING IS COMPLETE, DE-BURR & CHAMFER TUBE HOLES BOTH SIDES.



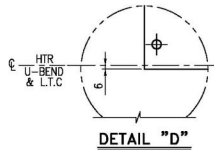
2-BAFFLE PLATES DETAIL (1A,3A)



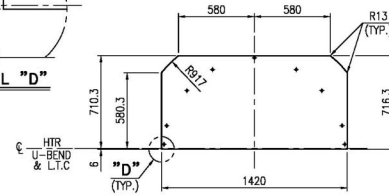
1-BAFFLE PLATE DETAIL (2B)



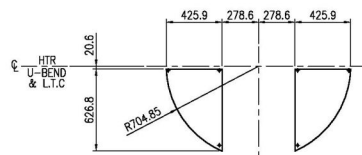
1-BAFFLE PLATE DETAIL (4C)



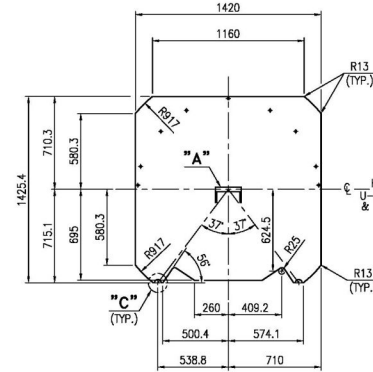
DETAIL "D"



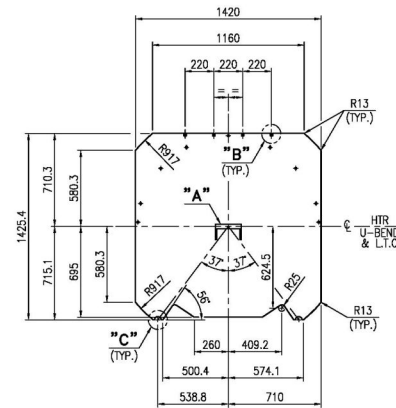
1-SUPPORT PLATE DETAIL (5D)



4-BAFFLE PLATES DETAIL (13G,15G,17G,19G)



4-SUPPORT PLATES DETAIL (6E,7E,8E,9E)



3-SUPPORT PLATES DETAIL (10F,11F,12F)



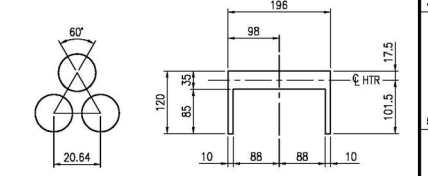
4-BAFFLE PLATES DETAIL (14H,16H,18H,20H)

NO.	DESCRIPTION	MATERIAL	Q'TY	SPECIFICATION	WT (kg)		REMARK
					UNIT	TOTAL	
1	BAFFLE PLATE	S4083-C	2	116 x 620.7 x 1409.3	109.9	219.8	
2	BAFFLE PLATE	S4083-C	1	116 x 279.9 x 1124.7	-	39.5	
3	BAFFLE PLATE	S4083-C	1	116 x 175.2 x 1409.3	-	31.0	
4	BAFFLE PLATE	S4083-C	1	116 x 687.4 x 1409.3	-	121.7	
5	SUPPORT PLATE	S4516-70	1	116 x 716.3 x 1420	-	127.8	
6	SUPPORT PLATE	S4516-70	4	116 x 1420 x 1425.5	254.2	1016.8	
7	SUPPORT PLATE	S4516-70	3	116 x 1420 x 1425.5	254.2	762.6	
8	BAFFLE PLATE	S4083-C	8	110 x 425.9 x 626.8	21.0	168.0	
9	BAFFLE PLATE	S4083-C	4	110 x 639.8 x 684.2	34.4	137.6	
10	END PLATE	S4516-70M	1	175 x 756.6 x 1421.2	-	633.1	

TOTAL WEIGHT = 3257.9 kg
 ** QUANTITY SHOWN IS FOR ONE(1) JOB, TWO(2) JOBS REQUIRED.

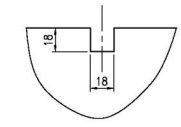
NOTES

- ALL VIEWS ARE TAKEN FROM CHANNEL SIDE. 모든 시황은 CHANNEL 측면에서 본 것이다.
- TUBE HOLES ON BAFFLE CUTS ARE TO BE DRILLED 0.8 [1/32"] OVER SIZE. BAFFLE CUT에 TUBE HOLES은 0.8 mm 크게 드릴되어야 한다.
- TUBE HOLES FINISH 250 RMS. TUBE HOLES 가공표는 250 RMS로 가공할 것.
- 항아리 판공이 상용되면 항아리 부분으로 한다.

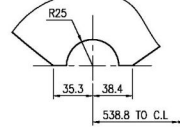


TUBE HOLE PITCH

DETAIL "A"

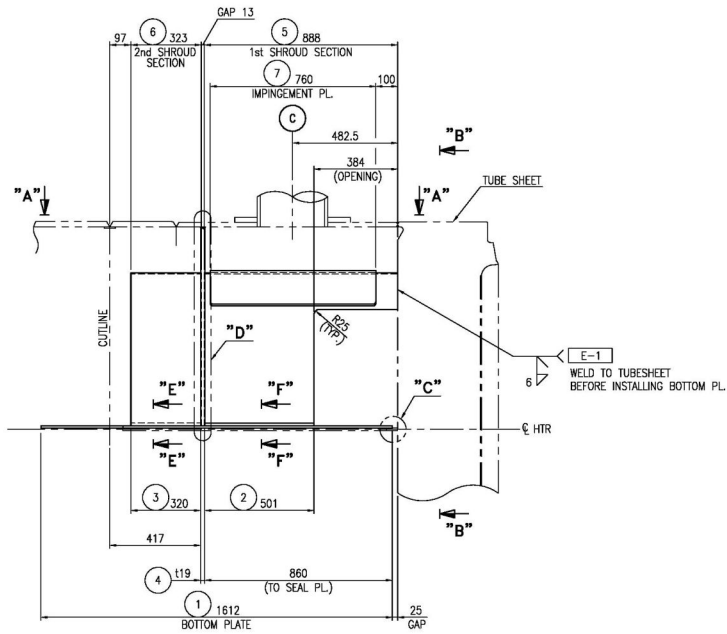


DETAIL "B"

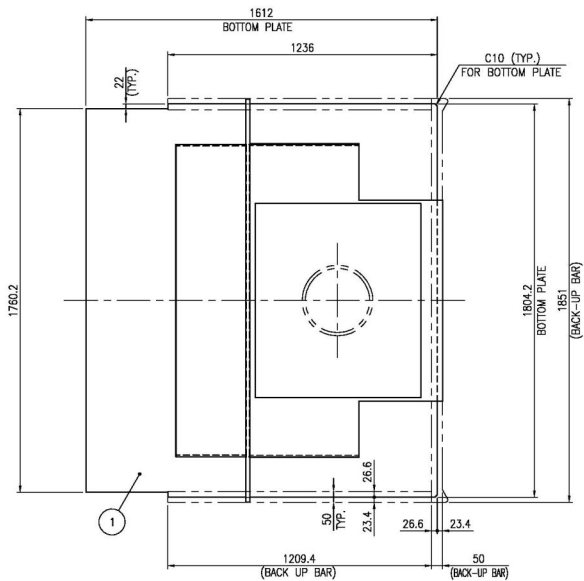


DETAIL "C"

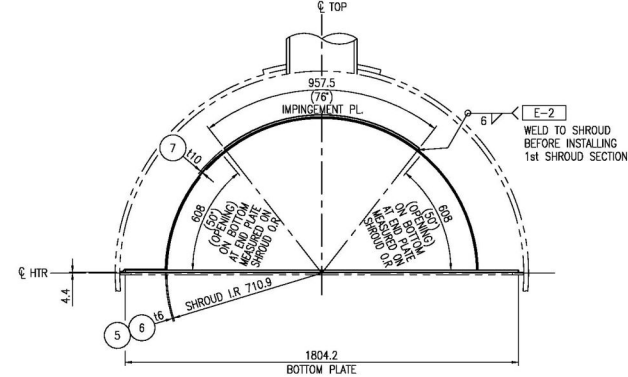




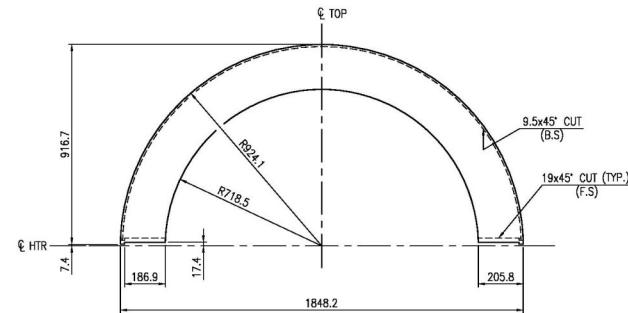
SIDE VIEW



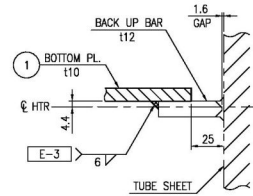
SECTION "A-A"



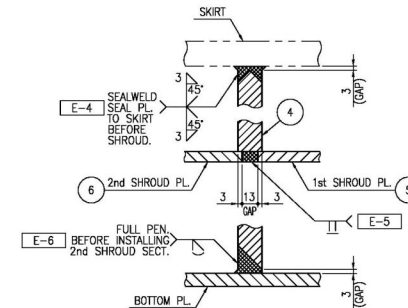
SECTION "B-B"



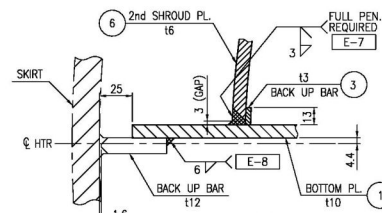
SEAL PLATE (4)



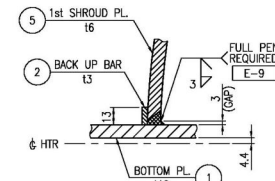
DETAIL "C"



DETAIL "D"



DETAIL "E"



DETAIL "F"

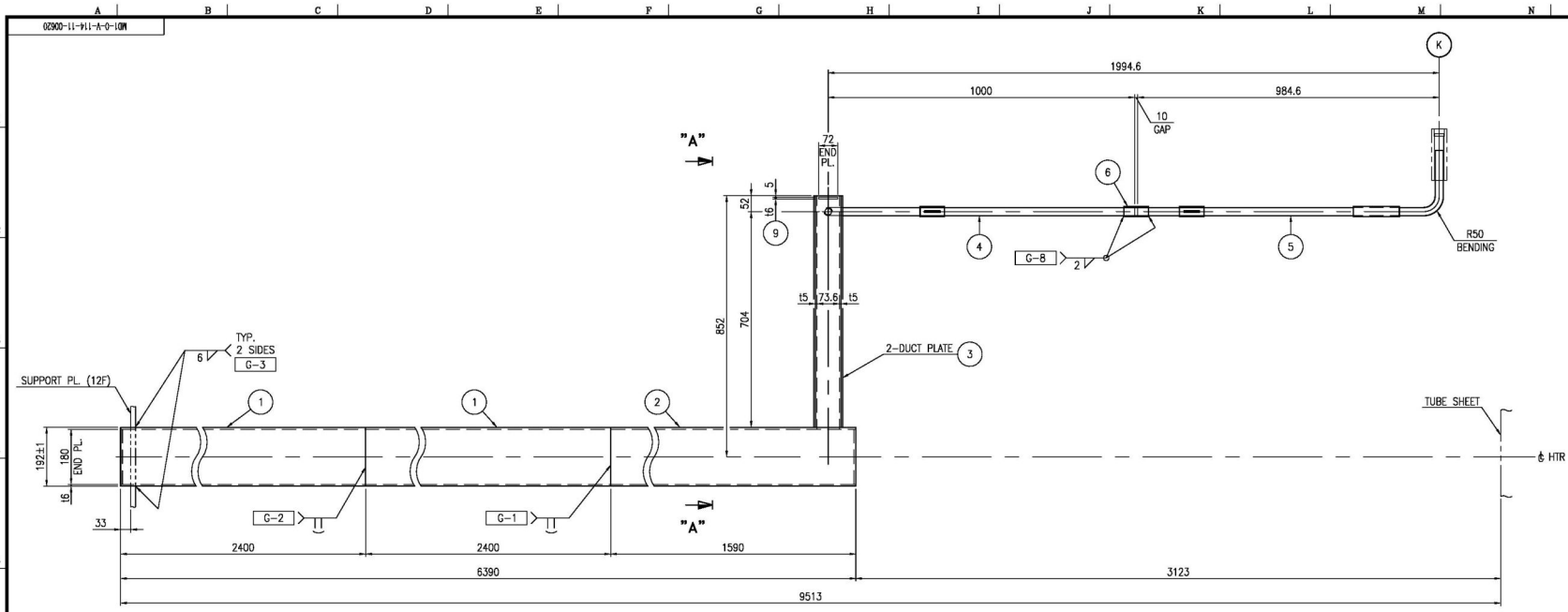
NO.	DESCRIPTION	MATERIAL	Q'TY	SPECIFICATION	WT.(kg)		REMARK
					UNIT	TOTAL	
1	BOTTOM PLATE	SA516-70	1	110 x 1612 x 1804.2	-	228.3	
2	BACK-UP BAR	C.S	2	13 x 13 x 501	0.2	0.4	
3	BACK-UP BAR	C.S	2	13 x 13 x 320	0.1	0.2	
4	SEAL PLATE	SA516-70	1	119 x 916.7 x 1848.2	-	252.7	
5	SHROUD PLATE	SS410	1	16 x 888 x 2213.8	-	92.6	
6	SHROUD PLATE	SS410	1	16 x 323 x 2213.8	-	33.7	
7	IMPINGEMENT PLATE	SA240-304	1	110 x 760 x 957.5	-	57.1	
						TOTAL WEIGHT =	665.0 kg

** QUANTITY SHOWN IS FOR ONE(1) JOB, TWO(2) JOBS REQUIRED.

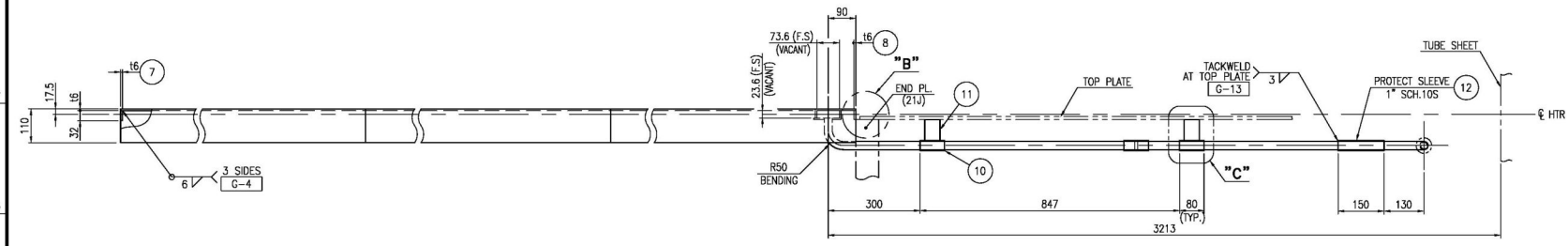
NOTES

1. ALL MATERIALS TO BE C.S UNLESS OTHERWISE NOTED. 명시되어 있지 않으면 모든 재부는 C.S이다.
2. DYE CHECK SEAL WELDING OF SHROUD SECTION WHERE ACCESSIBLE. SHROUD SECTION의 SEAL WELDING에 대해 가능한 곳에 염색탐상검사 실시할 것.
3. 용어의 한글이 상충되면 영어를 우선으로 한다.
4. WELD JOINT NO. : E-1 ~ E-9.

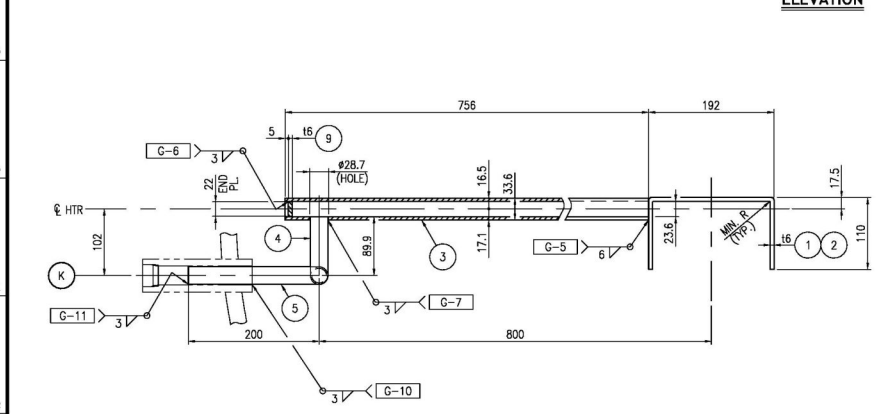




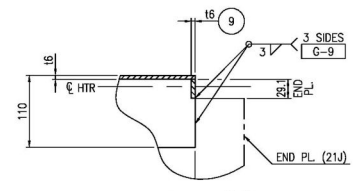
PLAN VIEW



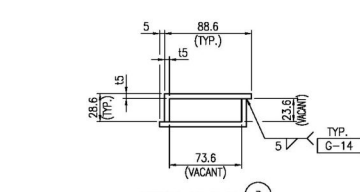
ELEVATION



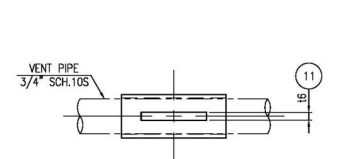
SECTION "A-A"



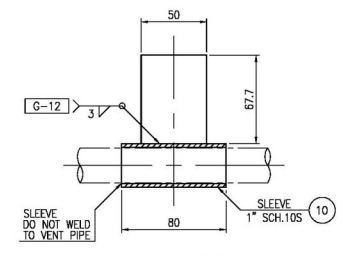
DETAIL "B"



TUBE PLATE (3)



DETAIL "B"



DETAIL "C"

NO.	DESCRIPTION	MATERIAL	Q'TY	SPECIFICATION	WT. (kg)		REMARK
					UNIT	TOTAL	
1	DUCT PLATE	SA516-70	2	16 x 412 x 2400	46.6	93.2	
2	DUCT PLATE	SA516-70	1	16 x 412 x 1590	-	30.9	
3	TUBE PLATE	C.S	2	15 x 117.2 x 756	3.5	7.0	
4	VENT PIPE	304SS	1	3/4" SCH.105 - 1098L	-	1.4	
5	VENT PIPE	304SS	1	3/4" SCH.105 - 1163.2L	-	1.5	
6	SLEEVE	304SS	1	1" SCH.105 - 80L	-	0.2	
7	END PLATE	SA516-70	1	16 x 32 x 180	-	0.3	
8	END PLATE	SA516-70	1	16 x 29.1 x 180	-	0.3	
9	END PLATE	SA516-70	1	16 x 22 x 72	-	0.1	
10	SLEEVE	304SS	2	1" SCH.105 - 80L	0.2	0.4	
11	SLEEVE LUG	C.S	2	16 x 50 x 67.7	0.2	0.4	
12	PROTECT SLEEVE	304SS	1	1" SCH.105 - 150L	-	0.4	

TOTAL WEIGHT = 136.1 kg

** QUANTITY SHOWN IS FOR ONE(1) JOB, TWO(2) JOBS REQUIRED.

NOTES

1. RAISE VENT DUCT TO HIGHEST POSITION THEN WELD VENT DUCT SIDE PL TO EVERY OTHER SUPPORT PL STARTING @ LAST SUPPORT. VENT DUCT 용접 시 VENT DUCT를 VENT DUCT HOLE의 가장 높은곳까지 들어올린 후 VENT DUCT SIDE PLATE와 모든 다른 SUPPORT PLATE를 처음부터 끝까지 용접 할 것.
2. 용접의 한끝이 상승되면 용접을 우선으로 한다.
3. WELD JOINT NO. : G-1 ~ G-14.



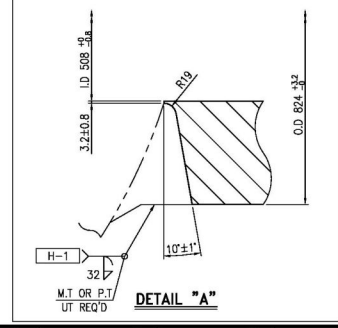
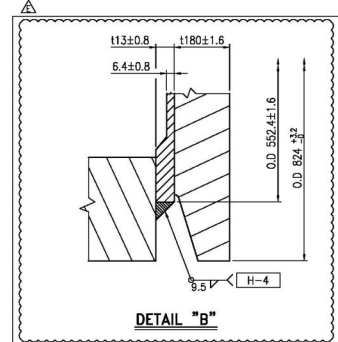
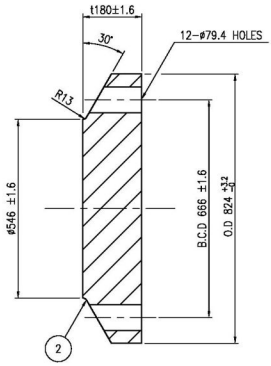
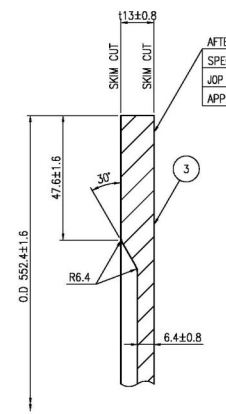
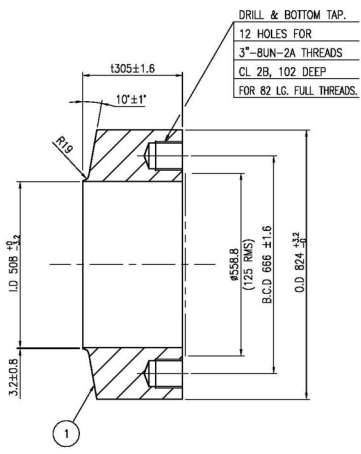
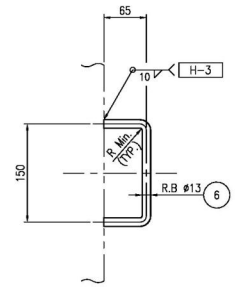
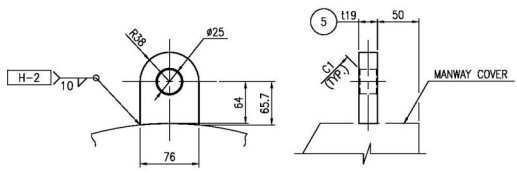
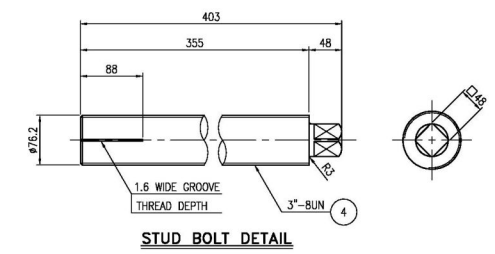
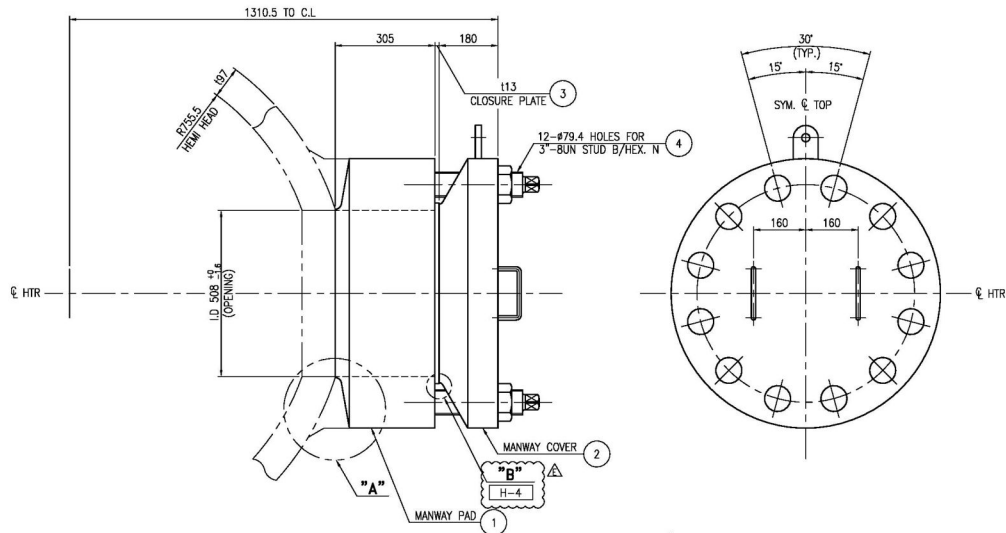
NO.	DESCRIPTION	MATERIAL	Q'TY	SPECIFICATION	WT (kg)		REMARK
					UNIT	TOTAL	
1	MANWAY PAD	SA105	1	1305 x O.D. 824 x I.D. 508	-	791.2	
2	MANWAY COVER	SA105	1	1180 x #824	-	753.2	
3	CLOSURE PLATE	SA516-70	1	113 x #552.4	-	24.4	
4	STUD BOLT/HEAVY HEX. NUT	A193-B7/A194-2H	12	3" - 8UN x 403L	15.5	186.0	
5	LIFTING LUG	SA516-70	1	119 x 76 x 103.7	-	1.2	
6	HANDLE	C.S	2	#13 x 280L	0.3	0.6	

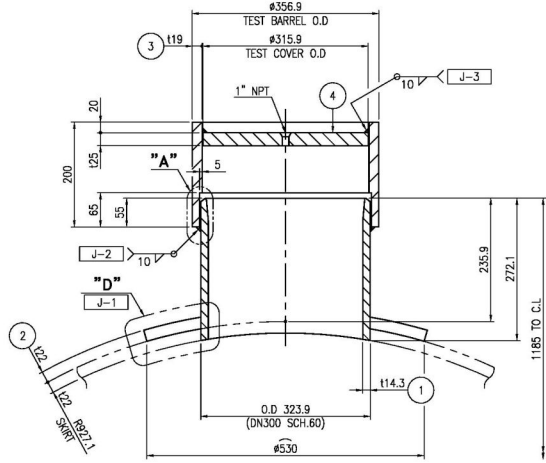
TOTAL WEIGHT = 1756.6 kg

** QUANTITY SHOWN IS FOR ONE(1) JOB, TWO(2) JOBS REQUIRED.

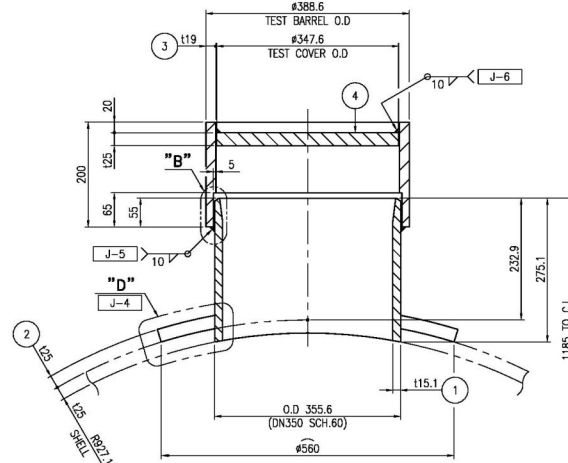
NOTES

- ALL BOLT HOLES TO STRADDLE CENTERLINES UNLESS OTHERWISE NOTED.
포기 되어 있지 않는 한 모든 볼트 눈금은 중심선을 양분한다.
- WELD JOINT NO. : H-1

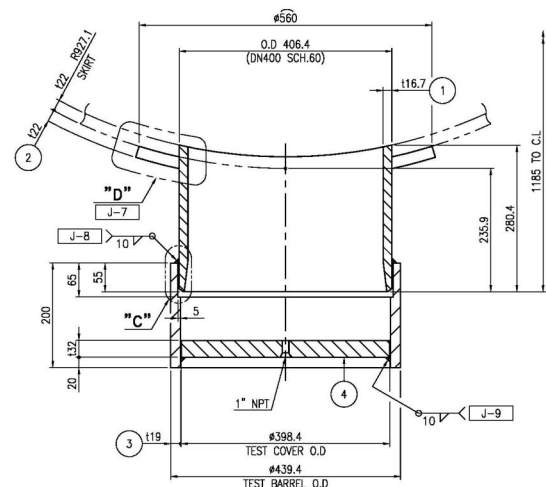




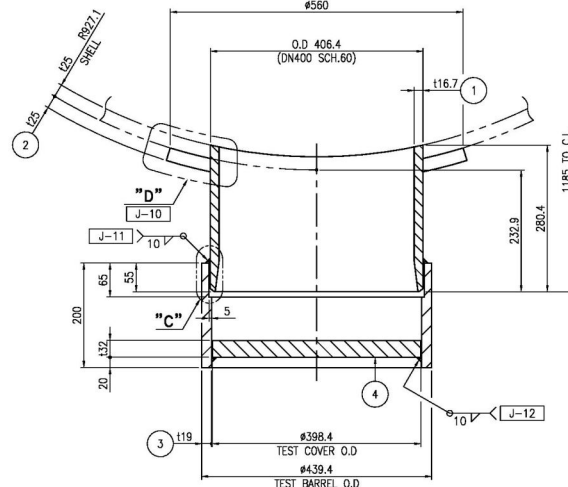
NOZZLE C (DN350)



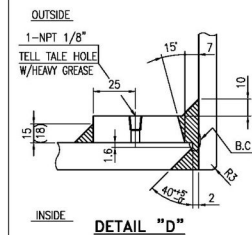
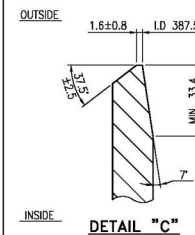
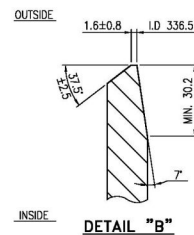
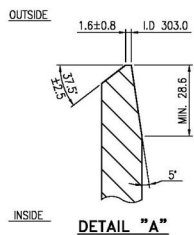
NOZZLE D (DN350)



NOZZLE E (DN400)



NOZZLE F (DN400)



NO.	DESCRIPTION	MATERIAL	Q'TY	SPECIFICATION	WT.(kg)		REMARK
					UNIT	TOTAL	
C NOZZLE							
1	PIPE	SA335-P11	1	DN300 SCH.60 - 272.1L	-	29.7	
2	REIN.PAD	SA87-22 CL2	1	122 x #530	-	38.1	
3	TEST BARREL	SA516-70	1	119 x 200 x 1061.5	-	31.7	
4	TEST COVER	SA516-70	1	125 x #315.9	-	15.4	
D NOZZLE							
1	PIPE	SA106-B	1	DN350 SCH.60 - 275.1L	-	34.9	
2	REIN.PAD	SA516-70	1	125 x #560	-	48.3	
3	TEST BARREL	SA516-70	1	119 x 200 x 1161.1	-	34.6	
4	TEST COVER	SA516-70	1	125 x #347.6	-	18.6	
E NOZZLE							
1	PIPE	SA106-B	1	DN400 SCH.60 - 280.4L	-	44.9	
2	REIN.PAD	SA87-22 CL2	1	122 x #560	-	42.5	
3	TEST BARREL	SA516-70	1	119 x 200 x 1320.7	-	39.4	
4	TEST COVER	SA516-70	1	132 x #398.4	-	31.3	
F NOZZLE							
1	PIPE	SA106-B	1	DN400 SCH.60 - 280.4L	-	44.9	
2	REIN.PAD	SA516-70	1	125x #560	-	48.3	
3	TEST BARREL	SA516-70	1	119 x 200 x 1320.7	-	39.4	
4	TEST COVER	SA516-70	1	132 x #398.4	-	31.3	

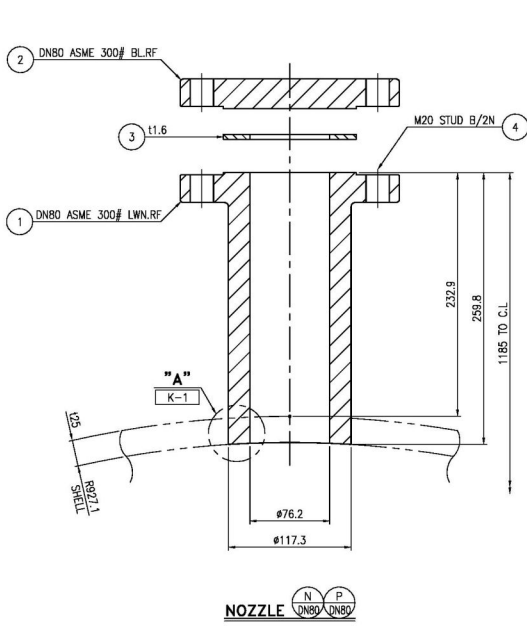
TOTAL WEIGHT = 573.3 kg

** QUANTITY SHOWN IS FOR ONE(1) JOB, TWO(2) JOBS REQUIRED.

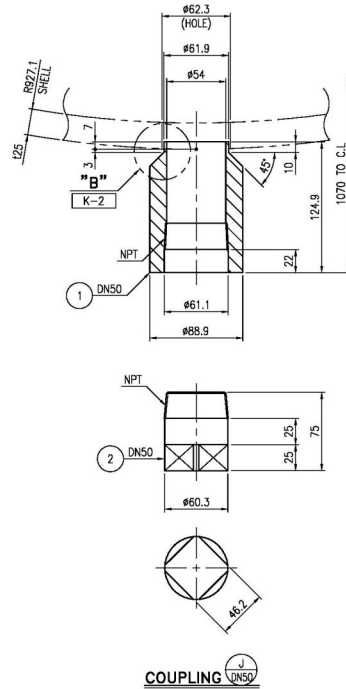
NOTES

- ALL BOLT HOLES TO STRADDLE CENTERLINES UNLESS OTHERWISE NOTED.
포기 되어 있지 않는 한 모든 볼트 Hole는 중심선을 앞본한다.
- ALL COUPLINGS PER AS-170
모든 커플링은 AS-170에 따른다.
- ALL SIZE ON PIPE, CPLGS. & BULL PLUGS ARE DN NOMINAL PIPE SIZE.
모든 파이프에서 CPLGS. & BULL PLUG 는 DN NOMINAL PIPE 크기이다.
- 용어와 단위가 상충되면 용어를 우선으로 한다.
- WELD JOINT NO. : J-1 ~ J-12.

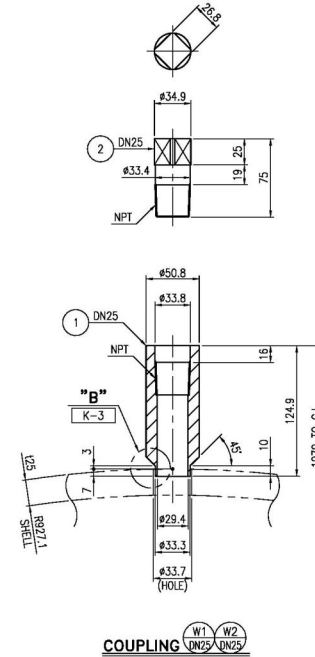




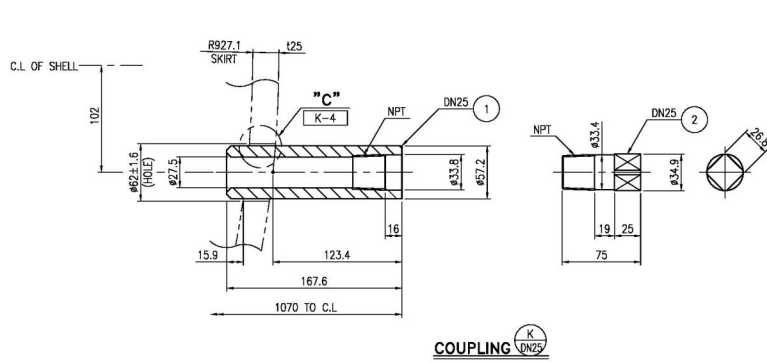
NOZZLE



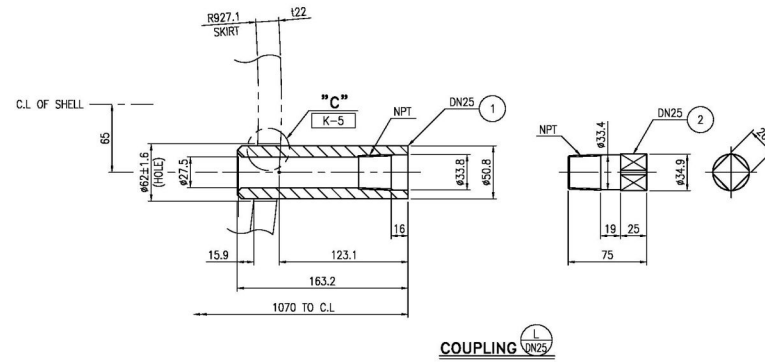
COUPLING



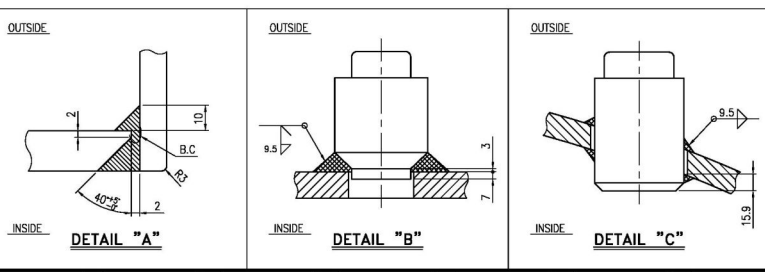
COUPLING



COUPLING



COUPLING



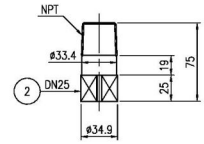
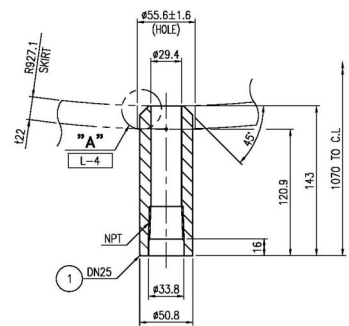
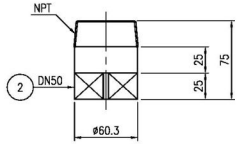
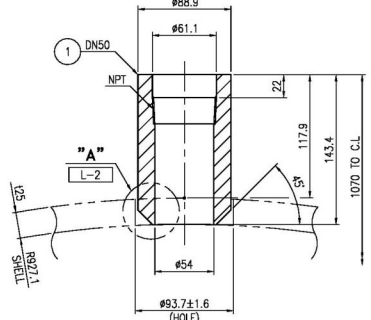
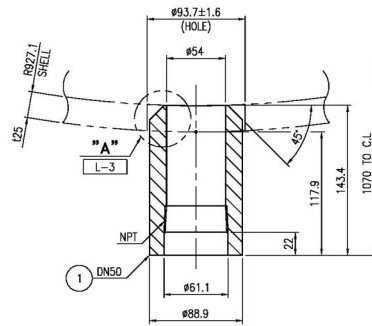
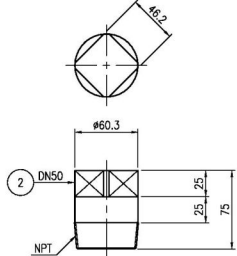
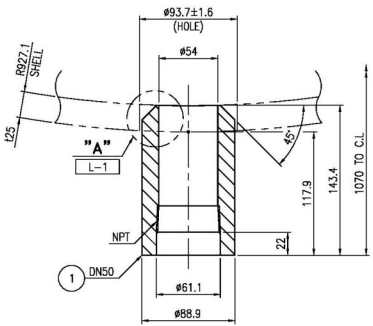
NO.	DESCRIPTION	MATERIAL	QTY	SPECIFICATION	WT.(kg)		REMARK
					UNIT	TOTAL	
NP NOZZLE							
1	FLANGE	SA105	3	DN80 ASME 300# LWN.RF	4.1	12.3	
2	BLIND FLANGE	SA105	3	DN80 ASME 300# BL.RF	6.8	20.4	
3	GASKET	NON ASBESTOS	3	11.6 x DN80 ASME 300# RF	-	-	SEE NOTE 6
4	STUD BOLT/2 HEX. NUT	M10-1.5/10-3	24	M20 x 120L	0.3	7.2	
J COUPLING							
1	HALF COUPLING	SA105	2	DN50 6000# - 124.9L	1.7	3.4	
2	PLUG	SA105	2	DN50 6000# NPT	1.2	2.4	
W1/W2 COUPLING							
1	HALF COUPLING	SA105	2	DN25 6000# - 124.9L	0.7	1.4	
2	PLUG	SA105	2	DN25 6000# NPT	0.2	0.4	
K COUPLING							
1	HALF COUPLING	SA105	1	DN25 6000# - 167.6L	-	0.9	
2	PLUG	SA105	1	DN25 6000# NPT	-	0.2	
L COUPLING							
1	HALF COUPLING	SA105	1	DN25 6000# - 163.2L	-	0.9	
2	PLUG	SA105	1	DN25 6000# NPT	-	0.2	
					TOTAL WEIGHT = 49.7 kg		

** QUANTITY SHOWN IS FOR ONE(1) JOB, TWO(2) JOBS REQUIRED.

NOTES

- ALL BOLT HOLES TO STRADDLE CENTERLINES UNLESS OTHERWISE NOTED.
포기 되어 있지 않는 한 모든 볼트 Hole는 중심선을 양분한다.
- ALL COUPLINGS PER AS-170
모든 커플링은 AS-170에 따른다.
- ALL SIZE ON PIPE, CPLGS. & BULL PLUGS ARE DN NOMINAL PIPE SIZE.
모든 파이프에서 CPLGS. & BULL PLUG는 DN NOMINAL PIPE 크기이다.
- 왕어의 한끝이 상승되면 왕어를 우선으로 한다.
- PLUG는 COUPLING과 체결하여 납품할 것.
- GASKET MATERIAL : JMC 978-C or HTC-9800 (NON ASBESTOS)
- WELD JOINT NO. : K-1 ~ K-5.



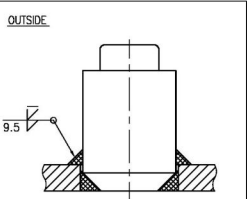


COUPLING G1 G2 G3
(DN50) (DN50) (DN50)

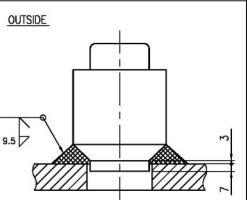
COUPLING U
(DN50)

COUPLING M2
(DN50)

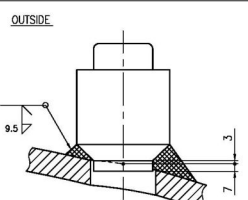
COUPLING M1
(DN25)



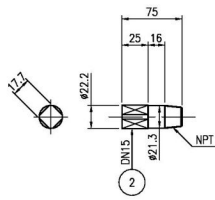
INSIDE DETAIL "A"



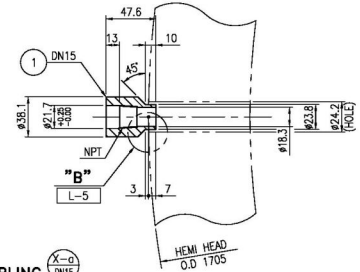
INSIDE DETAIL "B"



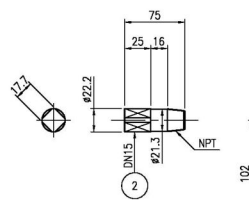
INSIDE DETAIL "C"



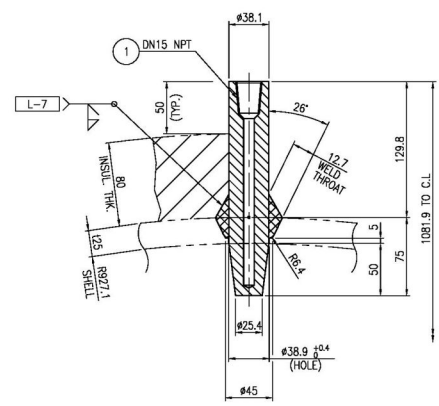
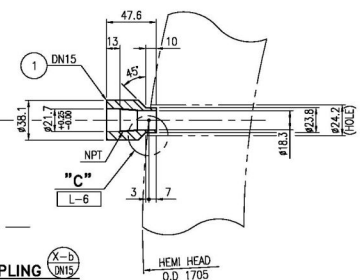
COUPLING X-b
(DN15)



COUPLING X-c
(DN15)



COUPLING X-d
(DN15)



THERMO NOZZLE V
(DN15)

NO.	DESCRIPTION	MATERIAL	Q'TY	SPECIFICATION	UNIT	TOTAL	REMARK
G1-3 COUPLING							
1	HALF COUPLING	SA105	6	DN50 6000# - 143.4L	1.9	11.4	
2	PLUG	SA105	6	DN50 6000# NPT	1.2	7.2	
U COUPLING							
1	HALF COUPLING	SA105	1	DN50 6000# - 143.4L	-	1.9	
2	PLUG	SA105	1	DN50 6000# NPT	-	1.2	
M2 COUPLING							
1	HALF COUPLING	SA105	1	DN50 6000# - 143.4L	-	1.9	
2	PLUG	SA105	1	DN50 6000# NPT	-	1.2	
M1 COUPLING							
1	HALF COUPLING	SA105	1	DN25 6000# - 143.4L	-	0.8	
2	PLUG	SA105	1	DN25 6000# NPT	-	0.2	
X-a COUPLING							
1	HALF COUPLING	SA105	1	DN15 6000# - 47.6L	-	0.2	
2	PLUG	SA105	1	DN15 6000# NPT	-	0.2	
X-b COUPLING							
1	HALF COUPLING	SA105	1	DN15 6000# - 47.6L	-	0.2	
2	PLUG	SA105	1	DN15 6000# NPT	-	0.2	
V THERMO NOZZLE							
1	THERMO NOZZLE	SS 316	1	DN15	-	0.1	

TOTAL WEIGHT = 26.7 kg

** QUANTITY SHOWN IS FOR ONE(1) JOB, TWO(2) JOBS REQUIRED.

NOTES

- ALL BOLT HOLES TO STRADDLE CENTERLINES UNLESS OTHERWISE NOTED.
포기 되어 있지 않는 한 모든 볼트 Hole은 중심선을 양분한다.
- ALL COUPLINGS PER AS-170
모든 커플링은 AS-170에 따른다.
- ALL SIZE ON PIPE, CPLGS. & BULL PLUGS ARE DN NOMINAL PIPE SIZE.
모든 파이프에서 CPLGS. & BULL PLUG는 DN NOMINAL PIPE 크기이다.
- 영어와 한글이 상충하면 영어를 우선으로 한다.
- PLUG는 COUPLING과 체결하여 납품될 것.
- WELD JOINT NO. : L-1 ~ L-7.



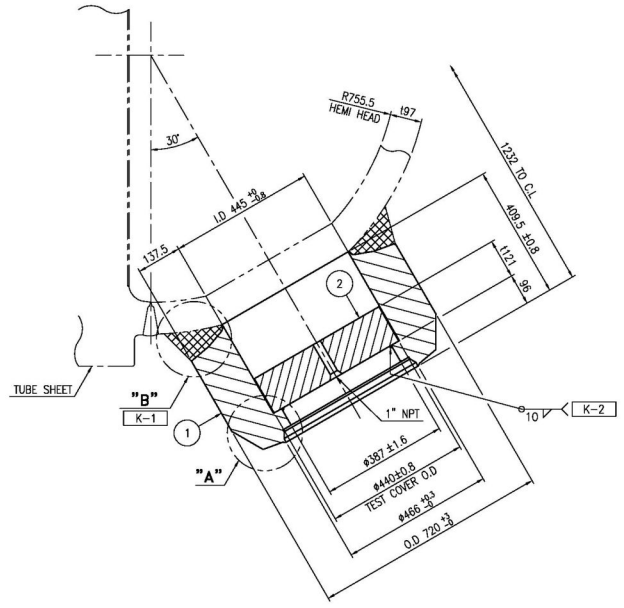
NO.	DESCRIPTION	MATERIAL	Q'TY	SPECIFICATION	WT.(kg)		REMARK
					UNIT	TOTAL	
A	FEED WATER INLET						
1	FORGED NECK	SA105	1	1137.5 x \varnothing 720 - 409.5L	-	1476.0	
2	TEST COVER	SA105	1	1121 x \varnothing 440	-	144.4	
B	FEED WATER OUTLET						
1	FORGED NECK	SA105	1	1137.5 x \varnothing 720 - 409.5L	-	1476.0	
2	TEST COVER	SA105	1	1121 x \varnothing 440	-	144.4	
T	COUPLING						
1	HALF COUPLING	SA105	1	DN20 6000# - 135L	-	0.5	
2	PLUG	SA105	1	DN20 6000# NPT	-	0.1	

TOTAL WEIGHT = 3241.4 kg

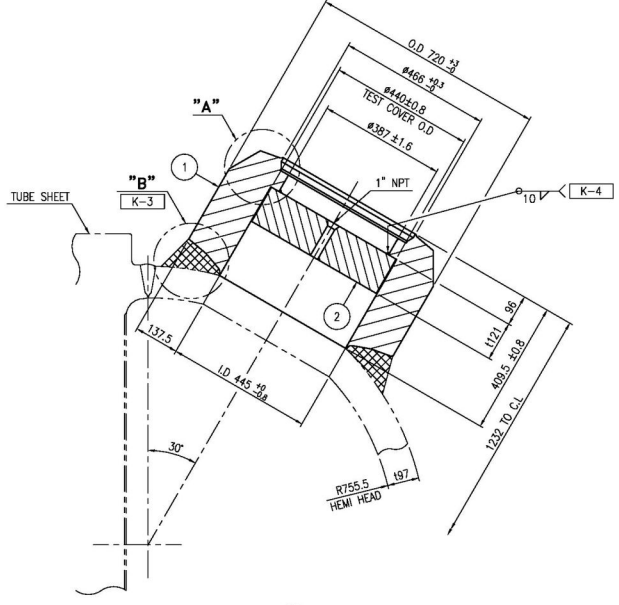
** QUANTITY SHOWN IS FOR ONE(1) JOB, TWO(2) JOBS REQUIRED.

NOTES

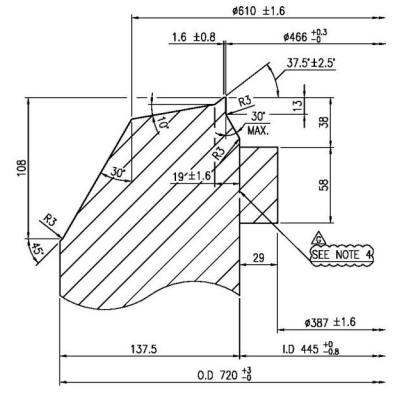
1. ROUGH MACHINE TO 250 RMS.
2. M.T OR P.T NOZZLE BEVELS AFTER MACHINING.
3. WELD JOINT NO. : K-1 ~ K-5.
4. REMOVE THE COVER AND GRIND RETAINER RING SMOOTH AFTER HYDRO TEST.



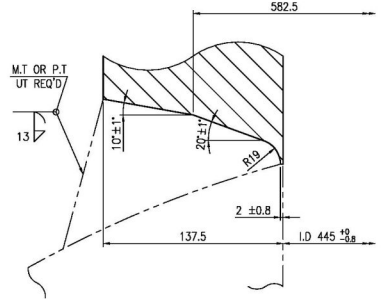
FEED WATER INLET



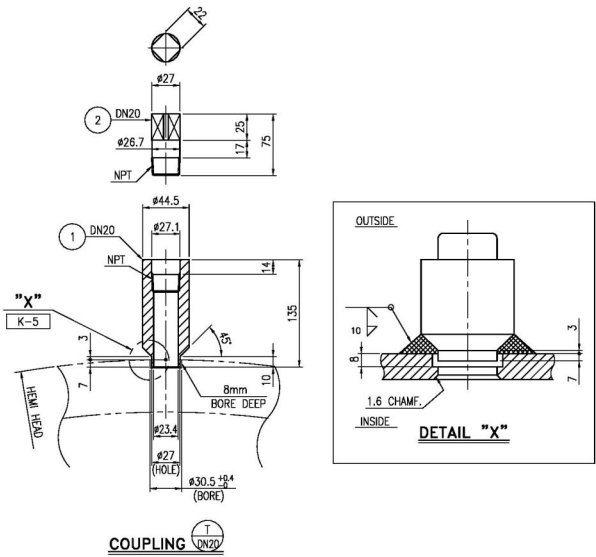
FEED WATER OUTLET



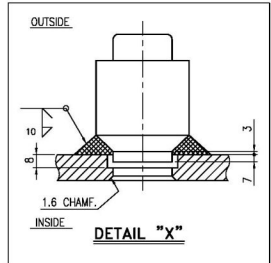
DETAIL "A"



DETAIL "B"

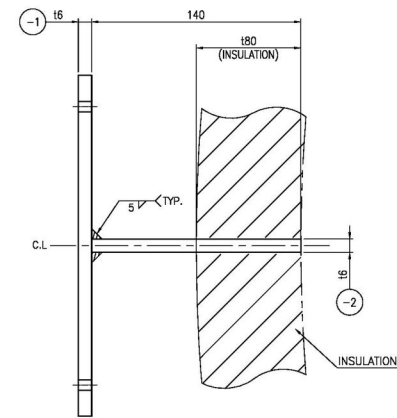
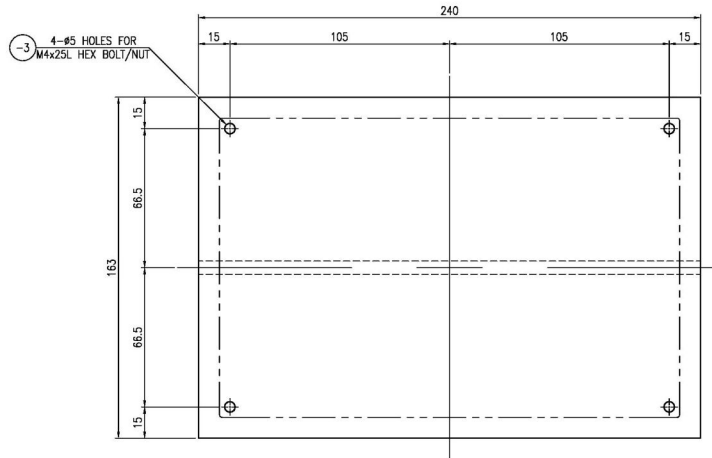


COUPLING

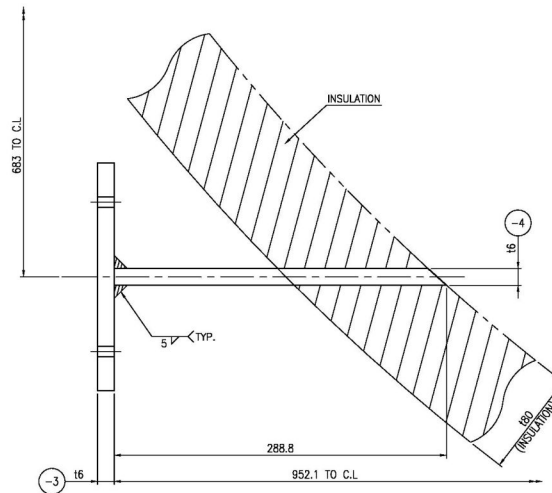
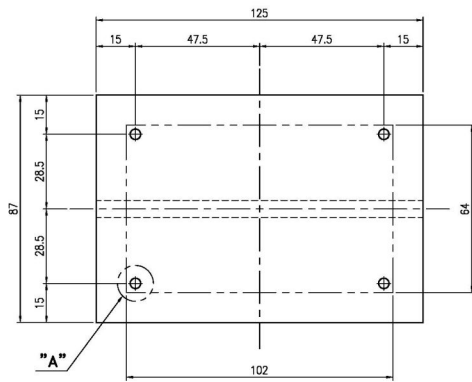
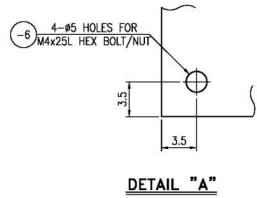


DETAIL "X"





NAME PLATE BRACKET (1)

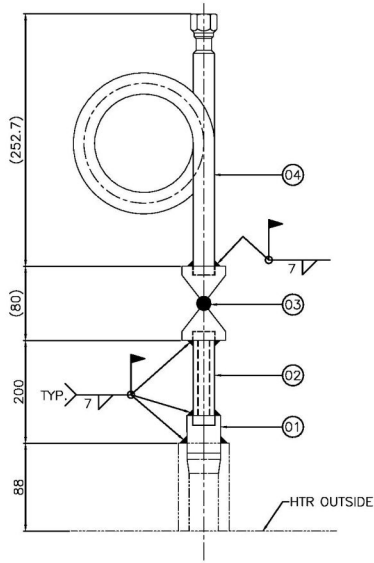


LEVEL PLATE BRACKET (2)

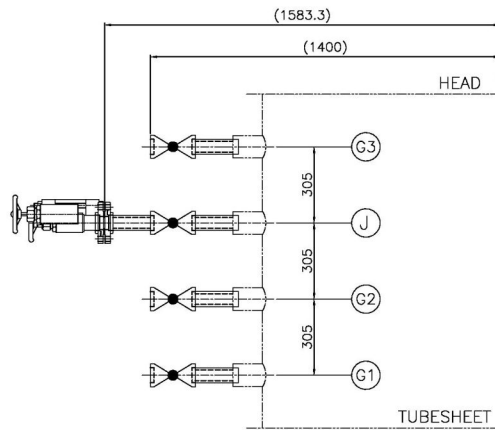
NO.	DESCRIPTION	MATERIAL	Q'TY	SPECIFICATION	WT. (kg)		REMARK
					UNIT	TOTAL	
1	NAME PLATE BRACKET						
-1	BRACKET PLATE	S#516-70	1	t6x163x240	-	2.0	
-2	BRACKET PLATE	S#516-70	1	t6x140x240	-	1.7	
-3	HEX BOLT/NUT	S.S 304	4	M4 x 25L	-	-	
2	LEVEL PLATE BRACKET						
-4	BRACKET PLATE	S#516-70	1	t6x87x125	-	0.5	
-5	BRACKET PLATE	S#516-70	1	t6x125x288.8	-	1.8	
-6	HEX BOLT/NUT	S.S 304	4	M4 x 25L	-	-	

TOTAL WEIGHT = 6.0 kg

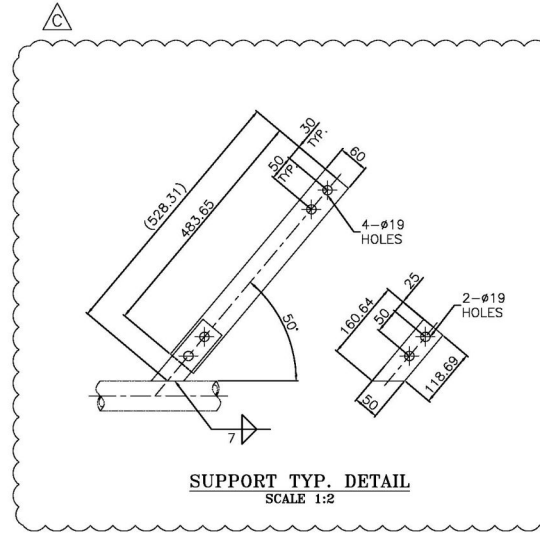




(W1) (W2) PRESSURE GAUGE CONNECTION DETAIL
SCALE = 1:4



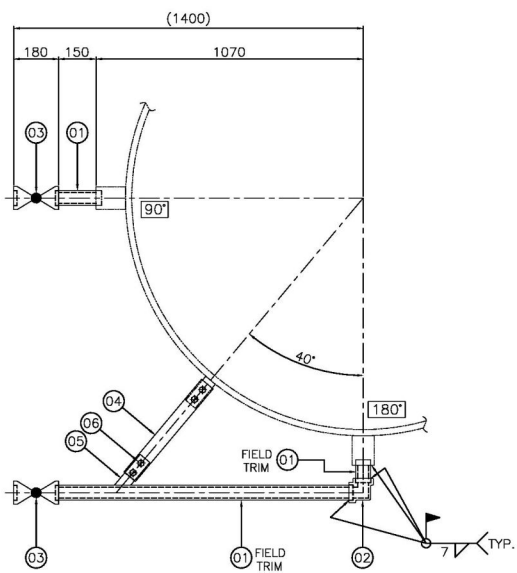
VIEW Y-Y



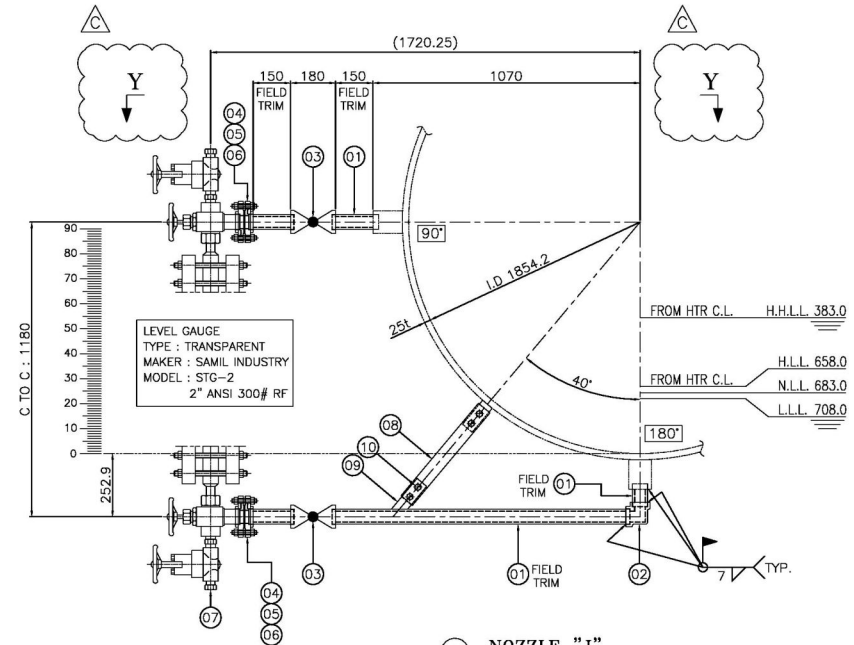
SUPPORT TYP. DETAIL
SCALE 1:2

NO.	DESCRIPTION	MATERIAL	Q'TY	SPECIFICATION	WT.(kg)		REMARK	
					UNIT	TOTAL		
1 NOZZLE "J" (1 SET)								
01	PIPE	SA106B	1	DN50 x Sch.160 x 2200	24.4	24.4	RANDOM OUT	
02	90° ELBOW	SA105	1	DN50 x 6000#	1.3	1.3	SW	
03	GLOVE VALVE	SA105	2	DN50 ANSI 600#	13.8	27.6	SW	
04	FLANGE	SA105	2	DN50 ANSI 300# RF	3.2	6.4	SW	
05	GASKET	NON ASBESTOS	2	4.5I x DN50 ANSI 300# RF	0.2	0.4		
06	STUD BOLT/ 2NUT	A193-B7/ A194-2H	16	M16 x 100LG.	0.3	4.3		
07	LEVEL GAUGE	BY MAKER	1	DN50 ANSI 300# RF	-	-		
08	SUPPORT PLATE	C.S	1	10 x 60 x 484	2.3	2.3		
09	BRACKET PLATE	C.S	1	10 x 50 x 160.5	0.6	0.6		
10	HEX BOLT/ NUT	C.S	4	M16 x 50LG.	0.1	0.4		
2 NOZZLE "G1, G2, G3" (3 SETS)								
01	PIPE	SA106B	3	DN50 x Sch.160 x 1600	17.8	53.3	RANDOM OUT	
02	90° ELBOW	SA105	3	DN50 x 6000#	1.3	4.0	SW	
03	GLOVE VALVE	SA105	6	DN50 ANSI 600# RF	13.8	82.8	SW	
04	SUPPORT PLATE	C.S	3	10 x 60 x 484	2.3	6.8		
05	BRACKET PLATE	C.S	3	10 x 50 x 160.5	0.6	1.9		
06	HEX BOLT/ NUT	C.S	12	M16 x 50LG.	0.1	1.3		
3 NOZZLE "W1, W2" (2 SET)								
01	REDUCER INSERT	SA105	2	DN25 x 15 x 6000#	0.3	0.6	SW	
02	PIPE	SA106B	2	DN15 x Sch.160 x 240	0.5	1.0		
03	GLOVE VALVE	SA105	2	DN15 ANSI 600#	2.3	4.6	SW	
04	SYPHON TUBE	BY MAKER	2	WINDING TYPE	1.9	3.8	DN15 NPT	
					TOTAL WEIGHT : 227.8 kg			

- NOTES :
- 1) QUANTITIES SHOWN ARE FOR (1) UNITS, (2) UNITS REQUIRED.
 - 2) PIPE SHIPPED IN 6,000MM RANDOM LENGTH FOR FIELD CUTTING.
 - 3) GASKET MATERIAL : JMC 978-C OR HTC-9800 (NON-ASBESTOS)



(G1) (G2) (G3) NOZZLE "G1, G2, G3"
(FOR LEVEL CONTROL)



(J) NOZZLE "J"
(FOR LEVEL GAUGE)

