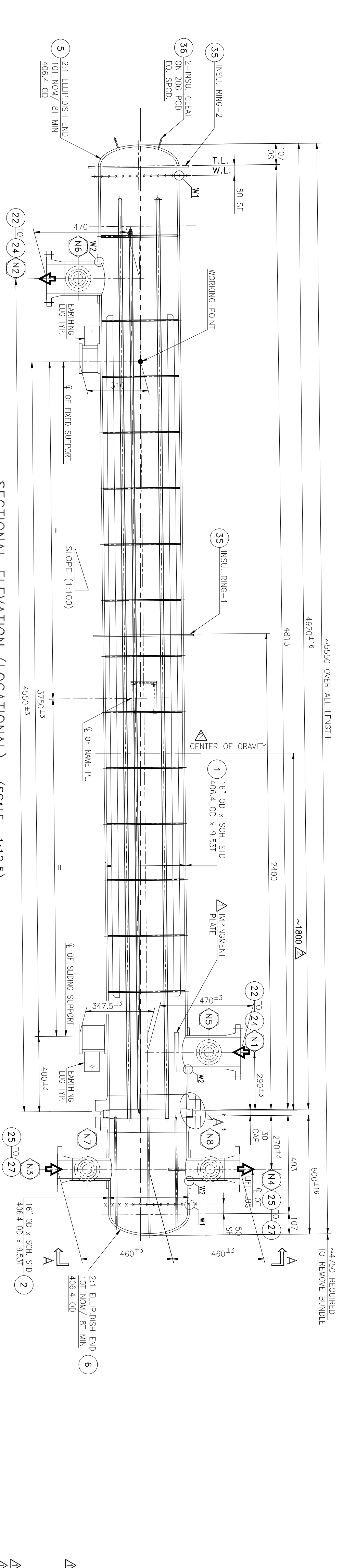
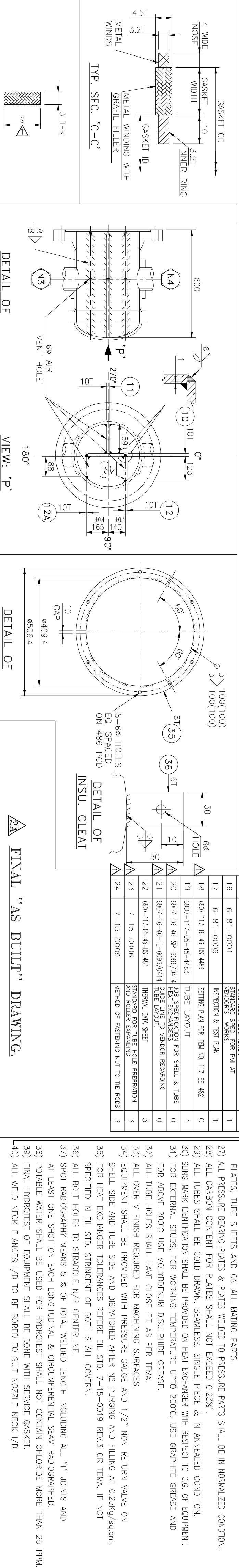
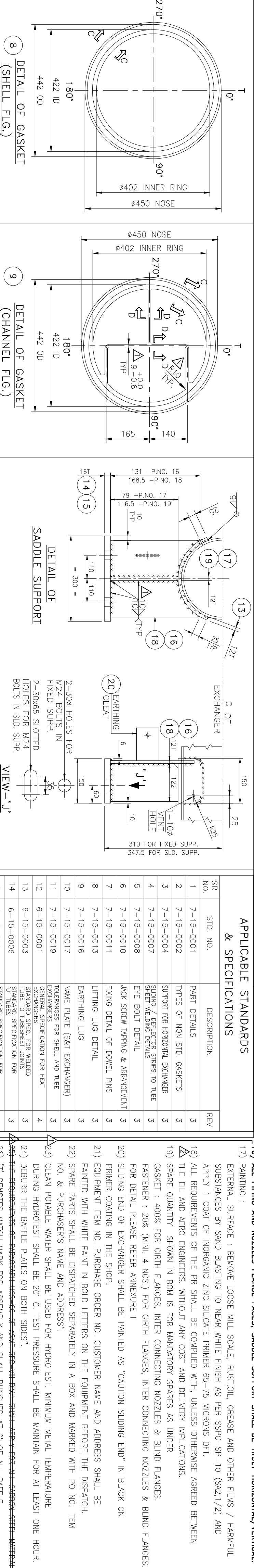
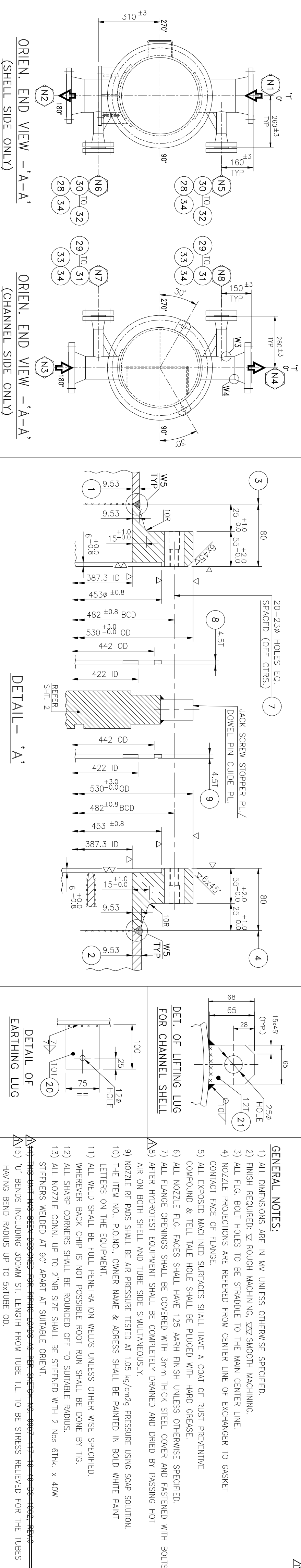




SECTIONAL ELEVATION (LOCATIONAL) (SCALE- 1:12.5)



W1	W2	W3	W4	W5
SHELL/CHANNEL TO DISH JOINT DETAIL	PIPE TO SHELL/CH.SHELL WITH R-PAD JOINT DETAIL	PIPE TO PIPE JOINT DETAIL	PIPE TO WN.FLG. JOINT DETAIL	SHELL / CH. SHELL TO GIRTH FLG. JOINT DETAIL
AERO ENGINEERS	AERO ENGINEERS	AERO ENGINEERS	AERO ENGINEERS	AERO ENGINEERS

REV.	DATE	DESCRIPTION	BY	APPD.
1	27.05.11	REVISED AS PER CLIENT'S COMMENTS AS MP'D	KMP	SIP
2	28.06.11	REVISED AS PER CLIENT'S COMMENTS AS MP'D	KMP	SIP
3	27.05.11	REVISED AS PER CLIENT'S COMMENTS AS MP'D	KMP	SIP
4	27.05.11	REVISED AS PER CLIENT'S COMMENTS AS MP'D	KMP	SIP
5	27.05.11	REVISED AS PER CLIENT'S COMMENTS AS MP'D	KMP	SIP
6	27.05.11	REVISED AS PER CLIENT'S COMMENTS AS MP'D	KMP	SIP
7	27.05.11	REVISED AS PER CLIENT'S COMMENTS AS MP'D	KMP	SIP
8	27.05.11	REVISED AS PER CLIENT'S COMMENTS AS MP'D	KMP	SIP
9	27.05.11	REVISED AS PER CLIENT'S COMMENTS AS MP'D	KMP	SIP
10	27.05.11	REVISED AS PER CLIENT'S COMMENTS AS MP'D	KMP	SIP
11	27.05.11	REVISED AS PER CLIENT'S COMMENTS AS MP'D	KMP	SIP
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99	27.05.11	REVISED AS PER CLIENT'S COMMENTS AS MP'D	KMP	SIP
100	27.05.11	REVISED AS PER CLIENT'S COMMENTS AS MP'D	KMP	SIP

DESIGN DATA			
1	DESIGN CODE	ASME SEC. VIII DIV.1, ED. 2007 & TEMA CL. R. 2007 ED.	
2	SIZE: 387.3 x 4500 mm (S1)		
3	SURFACE AREA/ SHELL: 30.7 m ²		
4	TYPE OF EXCHANGER: BEU (HORIZONTAL)		
5	DESIGN PRESSURE	HC + M2	COOLING WATER
6	DESIGN TEMPERATURE	10.20	7.80/7V
7	WORKING PRESSURE	kg/cm ²	1.500
8	WORKING TEMPERATURE	IN/OUT: °C	9.20
9	HYD. TEST PRESSURE	kg/cm ²	13.3
10	CORROSION ALLOWANCE	MM	3.0
11	JOINT EFFICIENCY		0.85
12	RADIOGRAPHY	SPOT	SPOT
13	HEAT TREATMENT	S.R. OF DISH END AFTER FORMING	4
14	NUMBER OF PASSES		1
15	INSPECTION BY	EL	NIL
16	INSULATION THK. (BY OTHERS)	mm	25 (P4)
17	EMPTY WEIGHT	kg	~ 1400
18	WEIGHT FULL OF WATER	kg	~ 1900
19	WEIGHT OF TUBE BUNDLE	kg	~ 600
20	SHELL PER UNIT	ONE	ONE
21	NO. OF UNIT	ONE	ONE
22	ITEM NO.	117-EE-483	
23	SERVICE	KA-480 DISCHARGE COOLER	

S.R. CYCLE FOR DISH ENDS :-			
1	LOADING TEMPERATURE SHALL NOT EXCEED 425 °C.		
2	ABOVE 425 °C, HEATING RATE SHALL NOT EXCEED 222 °C./hr. AND NEED NOT BE LESS THAN 56 °C./hr.		
3	DURING THE HEATING PERIOD THERE SHALL NOT BE A GREATER VARIATION IN TEMPERATURE THROUGHOUT THE PORTION OF THE PARTS BEING HEATED THAN 120 °C. WITHIN ANY 15 FT. INTERVAL OF LENGTH.		
4	HOLDING PERIOD -- 30 MINUTES MINIMUM.		
5	AND NEED NOT BE LESS THAN 56 °C./hr.		
6	FROM 425 °C. THE PARTS MAY BE COOLED IN STILL AIR.		

AERO ENGINEERS REF. DRAWINGS			
SER. NO.	DRG. NO.	SHEET NO.	DESCRIPTION
1	117-EE-483	1 OF 2	ASSEMBLY AND PART DETAIL
2	117-EE-483	2 OF 2	ASSEMBLY AND DETAIL OF TUBE BUNDLE AND TEST FLANGE

BILL OF MATERIAL			
P.NO.	DESCRIPTION	QTY.	REMARK
1	INSUL. CLEAT	2	SA 516 GR 60
2	INSUL.SUPP. RING -SHELL	2	SA 516 GR 60
3	STUD WITH 2 HEX NUT-MANUFACT	16+16	SA 516 GR 60
4	GASKET -N7/N8	248	***
5	GASKET -N5/N6	248	***
6	BOLD-FLG.-N5/N6/N7/N8	4	SA 105
7	PIPE -N7/N8	2	SA 106 GR. B
8	PIPE -N5/N6	2	SA 106 GR. B
9	FLANGE -N5/N4	2	SA 106 GR. B
10	FLANGE -N5/N4	2	SA 106 GR. B
11	FLANGE -N5/N4	2	SA 106 GR. B
12	FLANGE -N5/N4	2	SA 106 GR. B
13	FLANGE -N5/N4	2	SA 106 GR. B
14	FLANGE -N5/N4	2	SA 106 GR. B
15	FLANGE -N5/N4	2	SA 106 GR. B
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191	FLANGE -N5/N4	2	SA 106 GR. B
192	FLANGE -N5/N4	2	SA 106 GR. B
193	FLANGE -N5/N4	2	SA 106 GR. B
194	FLANGE -N5/N4	2	SA 106 GR. B
195	FLANGE -N5/N4	2	SA 106 GR. B
196	FLANGE -N5/N4	2	SA 106 GR. B
197	FLANGE -N5/N4	2	SA 106 GR. B
198	FLANGE -N5/N4	2	SA 106 GR. B
199	FLANGE -N5/N4	2	SA 106 GR. B
200	FLANGE -N5/N4	2	SA 106 GR. B
201	FLANGE -N5/N4	2	SA 106 GR. B
202	FLANGE -N5/N4	2	SA 106 GR. B
203	FLANGE -N5/N4	2	SA 106 GR. B
204	FLANGE -N5/N4	2	SA 106 GR. B
205	FLANGE -N5/N4	2	SA 106 GR. B
206	FLANGE -N5/N4	2	SA 106 GR. B
207	FLANGE -N5/N4	2	SA 106 GR. B
208	FLANGE -N5/N4	2	SA 106 GR. B
209	FLANGE -N5/N4	2	SA 106 GR. B
210	FLANGE -N5/N4	2	SA 106 GR. B
211	FLANGE -N5/N4	2	SA 106 GR. B
212	FLANGE -N5/N4	2	SA 106 GR. B
213	FLANGE -N5/N4	2	SA 106 GR. B
214	FLANGE -N5/N4	2	SA 106 GR. B
215	FLANGE -N5/N4	2	SA 106 GR. B
216	FLANGE -N5/N4	2	SA 106 GR. B
217	FLANGE -N5/N4	2	SA 106 GR. B
218	FLANGE -N5/N4	2	SA 106 GR. B
219	FLANGE -N5/N4	2	SA 106 GR. B
220	FLANGE -N5/N4	2	SA 106 GR. B
221	FLANGE -N5/N4	2	SA 106 GR. B
222	FLANGE -N5/N4	2	SA 106 GR. B
223	FLANGE -N5/N4	2	SA 106 GR. B
224	FLANGE -N5/N4	2	SA 106 GR. B
225	FLANGE -N5/N4	2	SA 106 GR. B
226	FLANGE -N5/N4	2	SA 106 GR. B
227	FLANGE -N5/N4	2	SA 106 GR. B
228	FLANGE -N5/N4	2	SA 106 GR. B
229	FLANGE -N5/N4	2	SA 106 GR. B
230	FLANGE -N5/N4	2	SA 106 GR. B
231	FLANGE -N5/N4	2	SA 106 GR. B
232	FLANGE -N5/N4	2	SA 106 GR. B
233	FLANGE -N5/N4	2	SA 106 GR. B
234	FLANGE -N5/N4	2	SA 106 GR. B
235	FLANGE -N5/N4	2	SA 106 GR. B
236	FLANGE -N5/N4	2	SA 106 GR. B
237	FLANGE -N5/N4	2	SA 106 GR. B
238	FLANGE -N5/N4	2	SA 106 GR. B
239	FLANGE -N5/N4	2	SA 106 GR. B
240	FLANGE -N5/N4	2	SA 106 GR. B
241	FLANGE -N5/N4	2	SA 106 GR. B
242	FLANGE -N5/N4	2	SA 106 GR. B
243	FLANGE -N5/N4	2	SA 106 GR. B
244	FLANGE -N5/N4	2	SA 106 GR. B
245	FLANGE -N5/N4	2	SA 106 GR. B
246	FLANGE -N5/N4	2	SA 106 GR. B
247	FLANGE -N5/N4	2	SA 106 GR. B
248	FLANGE -N5/N4	2	SA 106 GR. B
249	FLANGE -N5/N4	2	SA 106 GR. B
250	FLANGE -N5/N4	2	SA 106 GR. B
251	FLANGE -N5/N4	2	SA 106 GR. B
252	FLANGE -N5/N4	2	SA 106 GR. B
253	FLANGE -N5/N4	2	SA 106 GR. B
254	FLANGE -N5/N4	2	SA 106 GR. B
255	FLANGE -N5/N4	2	SA 106 GR. B
256	FLANGE -N5/N4	2	SA 106 GR. B
257	FLANGE -N5/N4	2	SA 106 GR. B
258	FLANGE -N5/N4	2	SA 106 GR. B
259	FLANGE -N5/N4	2	SA 106 GR. B
260	FLANGE -N5/N4	2	SA 106 GR. B
261	FLANGE -N5/N4	2	SA 106 GR. B
262	FLANGE -N5/N4	2	SA 106 GR. B
263	FLANGE -N5/N4	2	SA 106 GR. B
264	FLANGE -N5/N4	2	SA 106 GR. B
265	FLANGE -N5/N4	2	SA 106 GR. B
266	FLANGE -N5/N4	2	SA 106 GR. B
267	FLANGE -N5/N4	2	SA 106 GR. B
268	FLANGE -N5/N4	2	SA 106 GR. B
269	FLANGE -N5/N4	2	SA 106 GR. B
270	FLANGE -N5/N4	2	SA 106 GR. B
271	FLANGE -N5/N4	2	SA 106 GR. B
272	FLANGE -N5/N4	2	SA 106 GR. B
273	FLANGE -N5/N4	2	SA 106 GR. B
274	FLANGE -N5/N4	2	SA 106 GR. B
275	FLANGE -N5/N4	2	SA 106 GR. B
276	FLANGE -N5/N4	2	SA 106 GR. B
277	FLANGE -N5/N4	2	SA 106 GR. B
278	FLANGE -N5/N4	2	SA 106 GR. B
279	FLANGE -N5/N4	2	SA 106 GR. B
280	FLANGE -N5/N4	2	SA 106 GR. B
281	FLANGE -N5/N4	2	SA 106 GR. B
282	FLANGE -N5/N4	2	SA 106 GR. B
283	FLANGE -N5/N4	2	SA 106 GR. B
284	FLANGE -N5/N4	2	SA 106 GR. B
285	FLANGE -N5/N4	2	SA 106 GR. B
286	FLANGE -N5/N4	2	SA 106 GR. B
287	FLANGE -N5/N4	2	SA 106 GR. B
288	FLANGE -N5/N4	2	SA 106 GR. B
289	FLANGE -N5/N4	2	SA 106 GR. B
290	FL		