

SYMBOL	DESCRIPTION
	HANGER SUPPORT
	MOVEMENT RESTRICTED IN THIS DIRECTION MARKED BY ARROWS
	VIEW-N
	VIEW-F
	VIEW-A
	VIEW-G
	VIEW-M

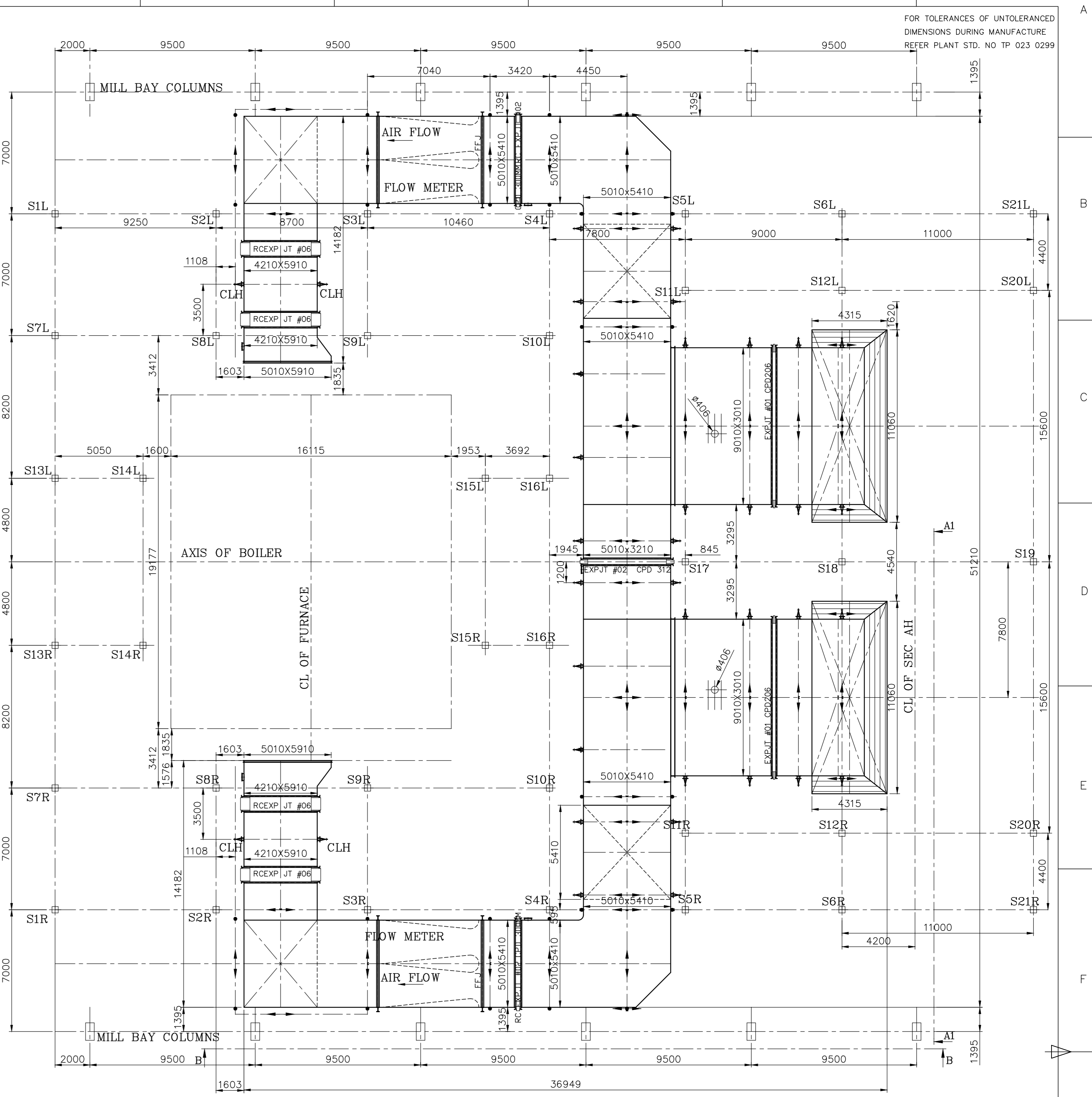
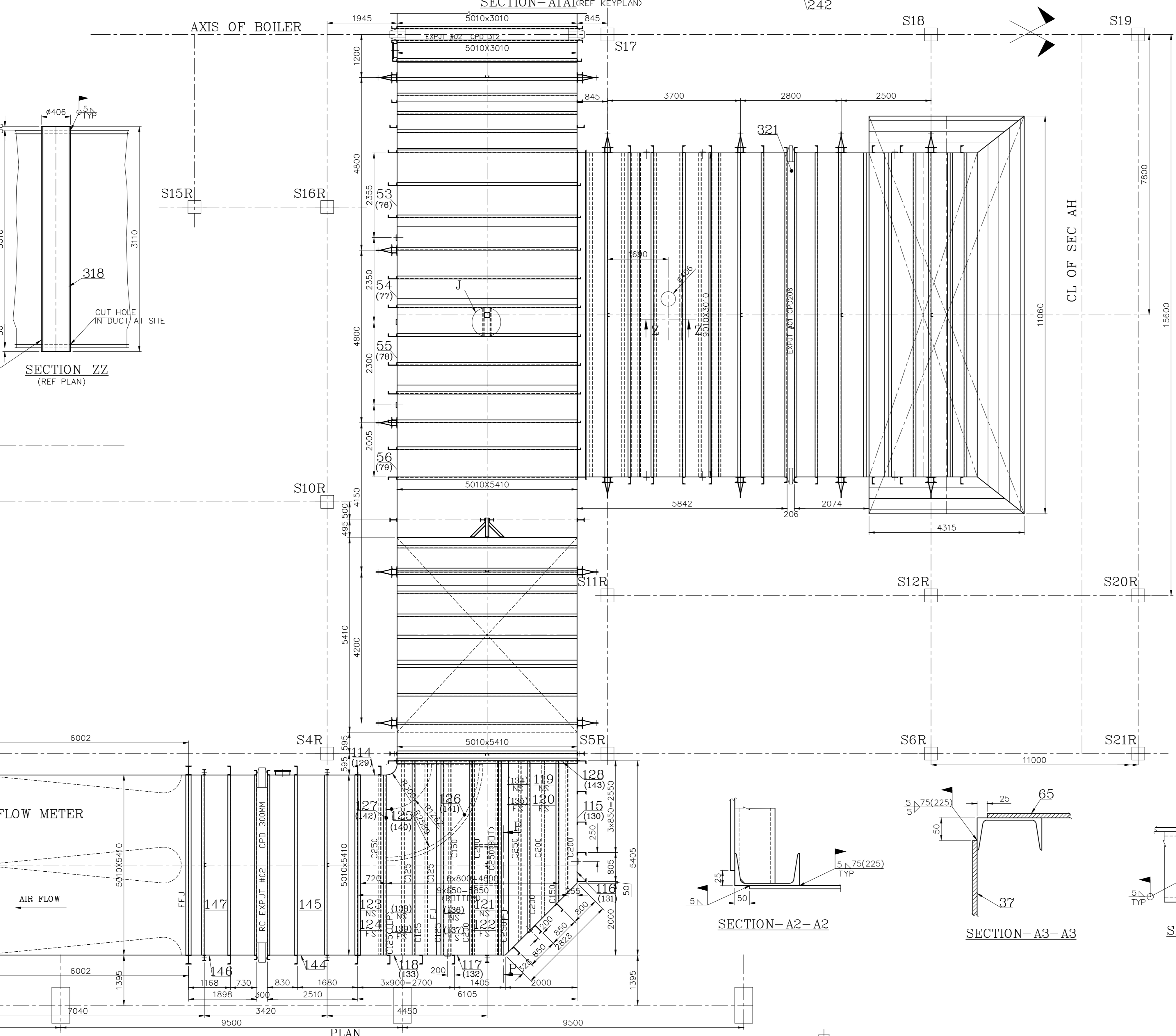
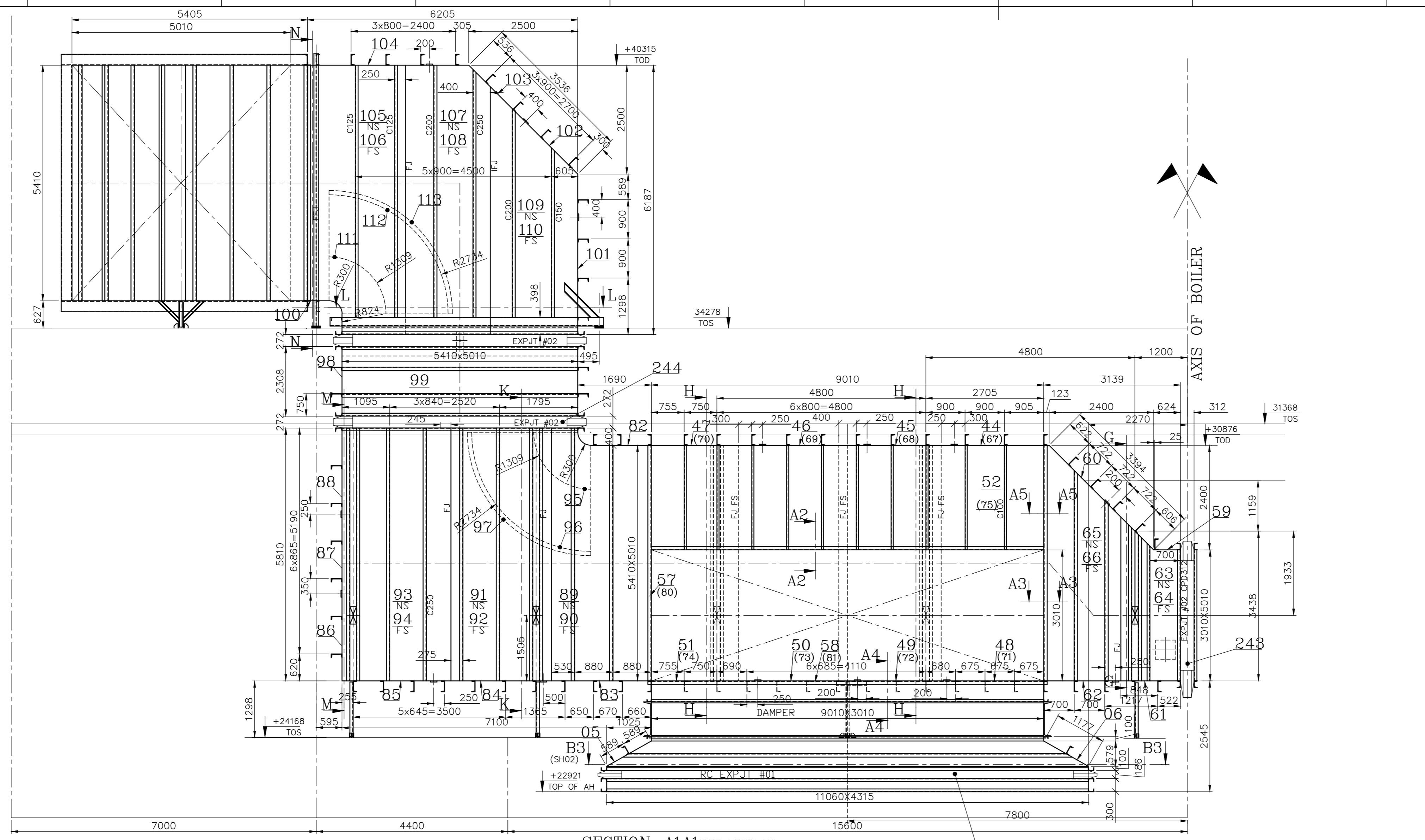
**NOTES**

01. SUPPORT LOCATION AND DIRECTION SHOWN IN THE SKETCH IS VALID FOR ALL POINTS.

02. THE ARRANGEMENT OF BOTTOM PLATE, BEARING PLATE AND TOP PLATE SHOULD BE IN LINE AT COOL CONDITION AS SHOWN IN DETAILS.

03. THE GAP BETWEEN STOPPER AND TOP PLATE SHOULD BE 2mm GAP ONLY.

04. THE ELEVATION OF SUPPORT POINTS TO BE MAINTAINED AT SITE.



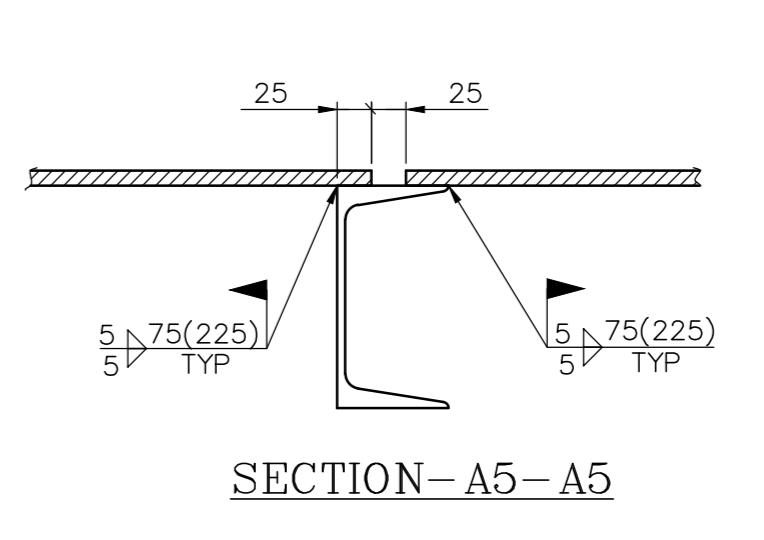
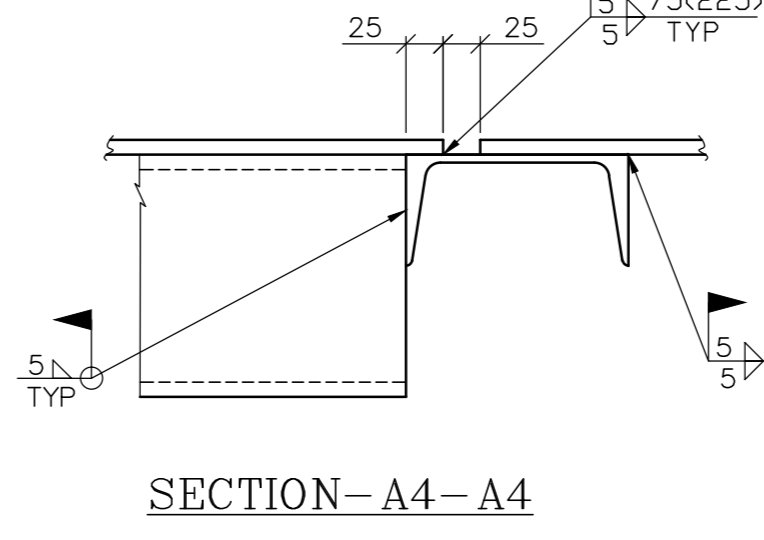
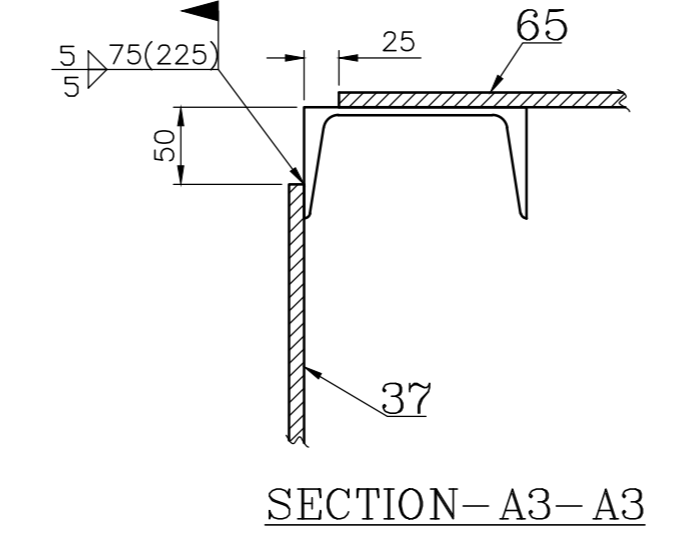
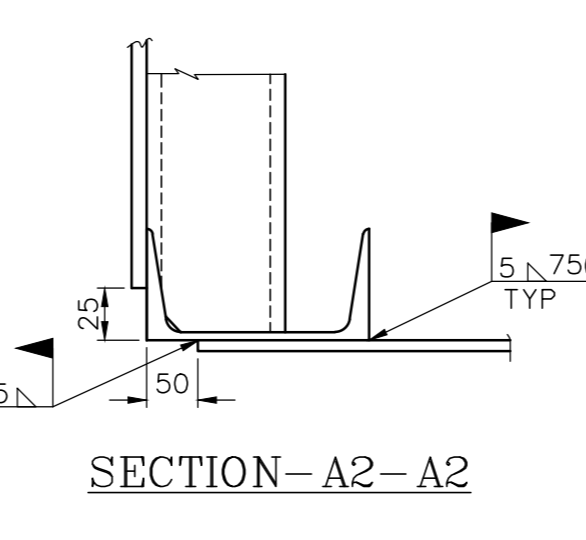
**KEY PLAN**  
(SCALE 1:150)

**ERECTOR NOTES**

1. THE DUCT SYSTEM IS DESIGNED WITHOUT REGARD TO THE LOCATION OF BLANKING OFF PLATES WHICH MAY BE REQUIRED FOR TESTING. REACTIONS WHICH MAY BE INTRODUCED BY THESE PLATES MUST BE TAKEN CARE OF BY THE ERECTOR BY PROVIDING ADEQUATE STOPS AND BRACINGS.
2. EXTERNALLY SEAL WELD AROUND ALL EXPOSED BOLTS HEADS OR NUTS WITH A SPACING GREATER THAN 100mm.
3. PATCH ALL HOLES PLACED IN STIFFENER FOR LIFTING PURPOSES AFTER DUCT IS IN PLACE.
4. FOR ADDITIONAL WELDING AND ERECTION NOTES NOT SHOWN. SEE REFERENCE NOS. OF REFERENCE DRG. NO.

**GENERAL NOTES**

1. ONE COMPLETE DUCT ARRANGEMENT REQUIRED PER UNIT.
2. QUANTITIES INDICATED ARE FOR ONE (1) COMPLETE UNIT.
3. DUCTS ARE TO BE OF WELDED CONSTRUCTION PER REFERENCE NOS. IN DRG. No. 0-
4. ALL MATERIAL TO BE CARBON STEEL UNLESS NOTED.
5. ALL PLATES TO BE 5mm UNLESS NOTED.
6. ALL DIMENSIONS ARE TO OUTSIDE OF PLATES UNLESS NOTED.
7. "F.F." INDICATES FLANGED FIELD JOINT.
8. "F." INDICATES SPLICED FIELD JOINT.
9. EXPANSION JOINT(S) ARE TO BE FABRICATED AT A NEUTRAL POSITION PER EXPANSION JOINT ASSY. DRAWING. AT ERECTION EXPANSION JOINTS ARE TO BE INSTALLED AT THE DIMENSIONS INDICATED IN THE DUCT ARRANGEMENT DRGS.
10. ALL PIPE STRUTS OR OTHER STRUCTURAL MEMBERS THAT ARE ADDED BY THE SHOP TO DUCT SECTIONS SOLELY FOR THE PURPOSE OF SHIPPING WILL BE PAINTED WITH A YELLOW BAND.
11. CORNER CONSTRUCTION S.S. TYPE.
12. ALL STIFFENERS ARE TO BE ISMC150, ISMC100, ISMC75 UNLESS NOTED.
13. THIS DRAWING IS READ ALONG WITH DRG. NO. 0-00-264-89997  
0-00-264-89998  
0-00-264-89999  
1-00-264-20880



PROJECT: **SAMPLE-ARRANGEMENT DRG - (SH.01/05)**

CUSTOMER NO: \_\_\_\_\_

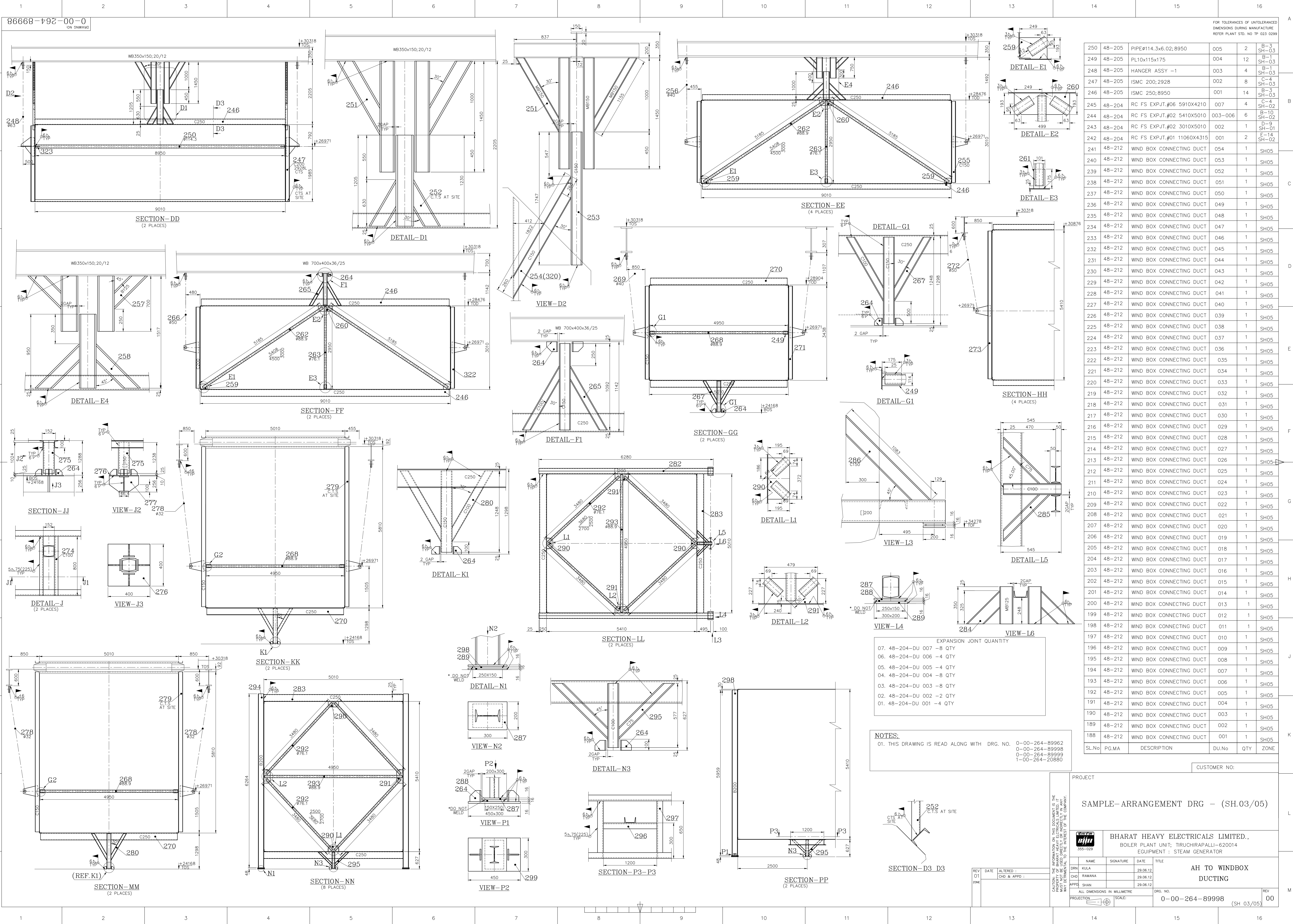
**BHARAT HEAVY ELECTRICALS LIMITED.**  
BOILER PLANT UNIT, TRICHURAPALLI-620014  
EQUIPMENT : STEAM GENERATOR

**AH TO WINDBOX DUCTING**  
(SH 01/05)

REV	DATE	ALTERED	DATE	TITLE
01		CHD & APPD		

ALL DIMENSIONS IN MILLIMETRE  
SCALE: \_\_\_\_\_  
DRG. NO. **0-00-264-89962**  
REV **00**





FOR TOLERANCES OF UNTOLEANCED DIMENSIONS DURING MANUFACTURE REFER PLANT STD. NO TP 023 0299

250	48-205	PIPE#114.3x6.02;8950	005	2	B-3 SH-03
249	48-205	PL10x115x175	004	12	B-SH-03
248	48-205	HANGER ASSY -1	003	4	B-1 SH-03
247	48-205	ISM 200;2928	002	8	C-4 SH-03
246	48-205	ISM 250;8950	001	14	B-3 SH-03
245	48-204	RC FS EXPJT.#06 5910X4210	007	4	SH-02
244	48-204	RC FS EXPJT.#02 5410X5010	003-006	6	B-10 SH-02
243	48-204	RC FS EXPJT.#02 3010X5010	002	1	D-3 SH-01
242	48-204	RC FS EXPJT.#01 11060X4315	001	2	E-14 SH-02
241	48-212	WIND BOX CONNECTING DUCT	054	1	SH05
240	48-212	WIND BOX CONNECTING DUCT	053	1	SH05
239	48-212	WIND BOX CONNECTING DUCT	052	1	SH05
238	48-212	WIND BOX CONNECTING DUCT	051	1	SH05
237	48-212	WIND BOX CONNECTING DUCT	050	1	SH05
236	48-212	WIND BOX CONNECTING DUCT	049	1	SH05
235	48-212	WIND BOX CONNECTING DUCT	048	1	SH05
234	48-212	WIND BOX CONNECTING DUCT	047	1	SH05
233	48-212	WIND BOX CONNECTING DUCT	046	1	SH05
232	48-212	WIND BOX CONNECTING DUCT	045	1	SH05
231	48-212	WIND BOX CONNECTING DUCT	044	1	SH05
230	48-212	WIND BOX CONNECTING DUCT	043	1	SH05
229	48-212	WIND BOX CONNECTING DUCT	042	1	SH05
228	48-212	WIND BOX CONNECTING DUCT	041	1	SH05
227	48-212	WIND BOX CONNECTING DUCT	040	1	SH05
226	48-212	WIND BOX CONNECTING DUCT	039	1	SH05
225	48-212	WIND BOX CONNECTING DUCT	038	1	SH05
224	48-212	WIND BOX CONNECTING DUCT	037	1	SH05
223	48-212	WIND BOX CONNECTING DUCT	036	1	SH05
222	48-212	WIND BOX CONNECTING DUCT	035	1	SH05
221	48-212	WIND BOX CONNECTING DUCT	034	1	SH05
220	48-212	WIND BOX CONNECTING DUCT	033	1	SH05
219	48-212	WIND BOX CONNECTING DUCT	032	1	SH05
218	48-212	WIND BOX CONNECTING DUCT	031	1	SH05
217	48-212	WIND BOX CONNECTING DUCT	030	1	SH05
216	48-212	WIND BOX CONNECTING DUCT	029	1	SH05
215	48-212	WIND BOX CONNECTING DUCT	028	1	SH05
214	48-212	WIND BOX CONNECTING DUCT	027	1	SH05
213	48-212	WIND BOX CONNECTING DUCT	026	1	SH05
212	48-212	WIND BOX CONNECTING DUCT	025	1	SH05
211	48-212	WIND BOX CONNECTING DUCT	024	1	SH05
210	48-212	WIND BOX CONNECTING DUCT	023	1	SH05
209	48-212	WIND BOX CONNECTING DUCT	022	1	SH05
208	48-212	WIND BOX CONNECTING DUCT	021	1	SH05
207	48-212	WIND BOX CONNECTING DUCT	020	1	SH05
206	48-212	WIND BOX CONNECTING DUCT	019	1	SH05
205	48-212	WIND BOX CONNECTING DUCT	018	1	SH05
204	48-212	WIND BOX CONNECTING DUCT	017	1	SH05
203	48-212	WIND BOX CONNECTING DUCT	016	1	SH05
202	48-212	WIND BOX CONNECTING DUCT	015	1	SH05
201	48-212	WIND BOX CONNECTING DUCT	014	1	SH05
200	48-212	WIND BOX CONNECTING DUCT	013	1	SH05
199	48-212	WIND BOX CONNECTING DUCT	012	1	SH05
198	48-212	WIND BOX CONNECTING DUCT	011	1	SH05
197	48-212	WIND BOX CONNECTING DUCT	010	1	SH05
196	48-212	WIND BOX CONNECTING DUCT	009	1	SH05
195	48-212	WIND BOX CONNECTING DUCT	008	1	SH05
194	48-212	WIND BOX CONNECTING DUCT	007	1	SH05
193	48-212	WIND BOX CONNECTING DUCT	006	1	SH05
192	48-212	WIND BOX CONNECTING DUCT	005	1	SH05
191	48-212	WIND BOX CONNECTING DUCT	004	1	SH05
190	48-212	WIND BOX CONNECTING DUCT	003	1	SH05
189	48-212	WIND BOX CONNECTING DUCT	002	1	SH05
188	48-212	WIND BOX CONNECTING DUCT	001	1	SH05

EXPANSION JOINT QUANTITY

07.	48-204-DU 007	- 8 QTY
06.	48-204-DU 006	- 4 QTY
05.	48-204-DU 005	- 4 QTY
04.	48-204-DU 004	- 8 QTY
03.	48-204-DU 003	- 8 QTY
02.	48-204-DU 002	- 2 QTY
01.	48-204-DU 001	- 4 QTY

NOTES:  
01. THIS DRAWING IS READ ALONG WITH DRG. NO. 0-00-264-89962  
0-00-264-89968  
0-00-264-89999  
1-00-264-20880

CUSTOMER NO. \_\_\_\_\_

PROJECT: **SAMPLE-ARRANGEMENT DRG - (SH.03/05)**

**BHARAT HEAVY ELECTRICALS LIMITED.**  
BOILER PLANT UNIT; TIRUCHIRAPPALLI-620014  
EQUIPMENT: STEAM GENERATOR

NAME	SIGNATURE	DATE	TITLE
DRN: KULA		29.06.12	
CHD: RAMANA		29.06.12	
APPR: SHAN		29.06.12	

ALL DIMENSIONS IN MILLIMETRE

PROJECTION:

SCALE: \_\_\_\_\_

DRG. NO. **0-00-264-89998** (SH 03/05)

REV: \_\_\_\_\_

DATE: \_\_\_\_\_

ALTERED: \_\_\_\_\_

CHD & APPD: \_\_\_\_\_

ZONE: \_\_\_\_\_

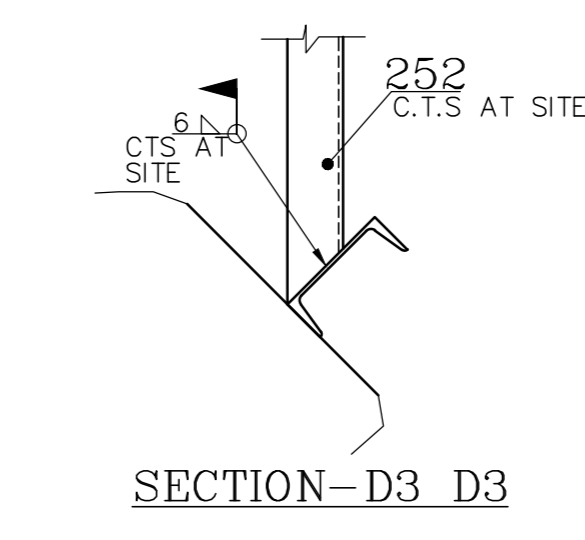
REV: \_\_\_\_\_

DATE: \_\_\_\_\_

ALTERED: \_\_\_\_\_

CHD & APPD: \_\_\_\_\_

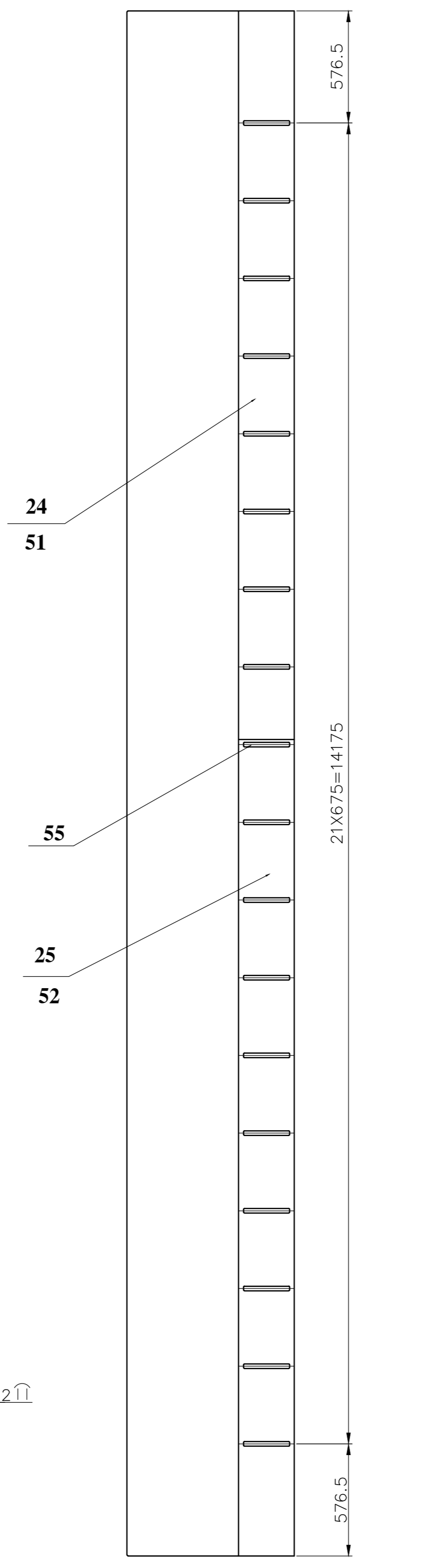
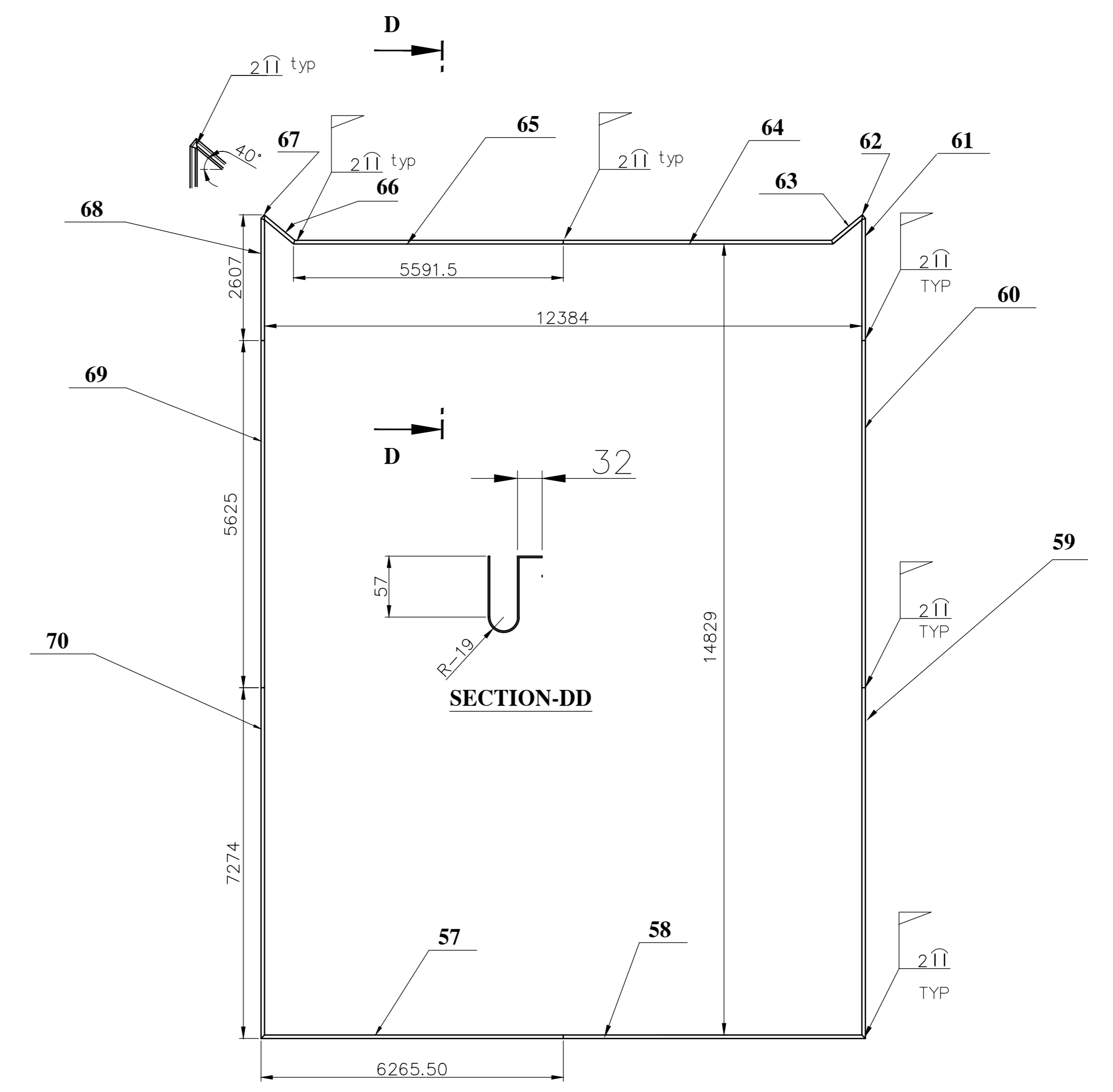
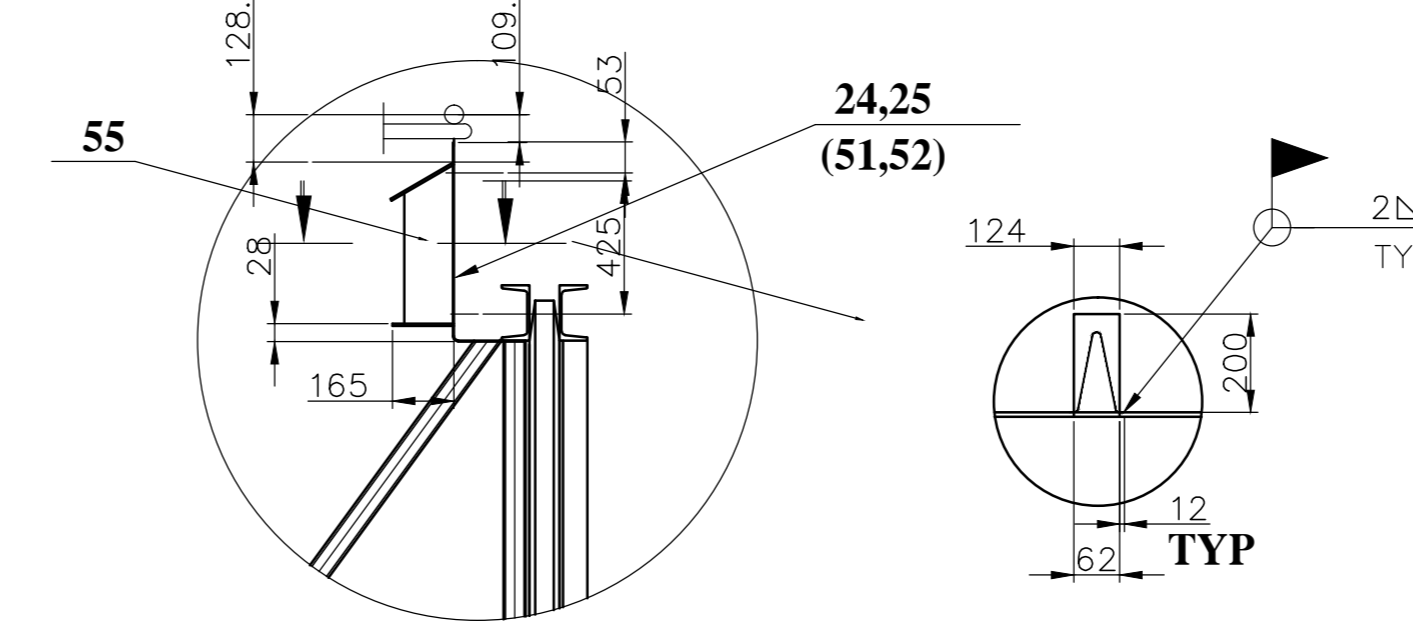
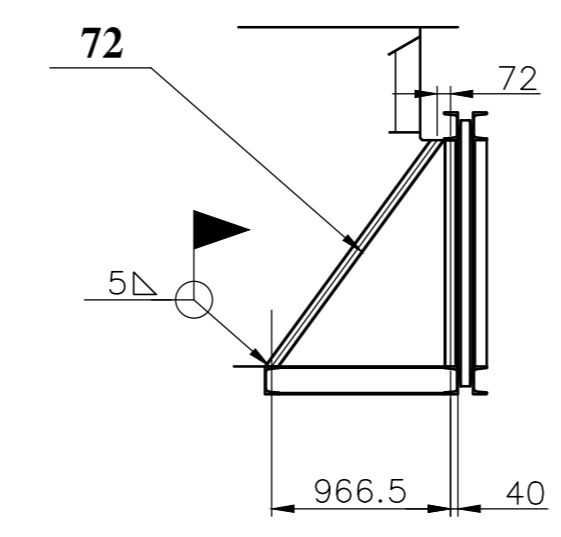
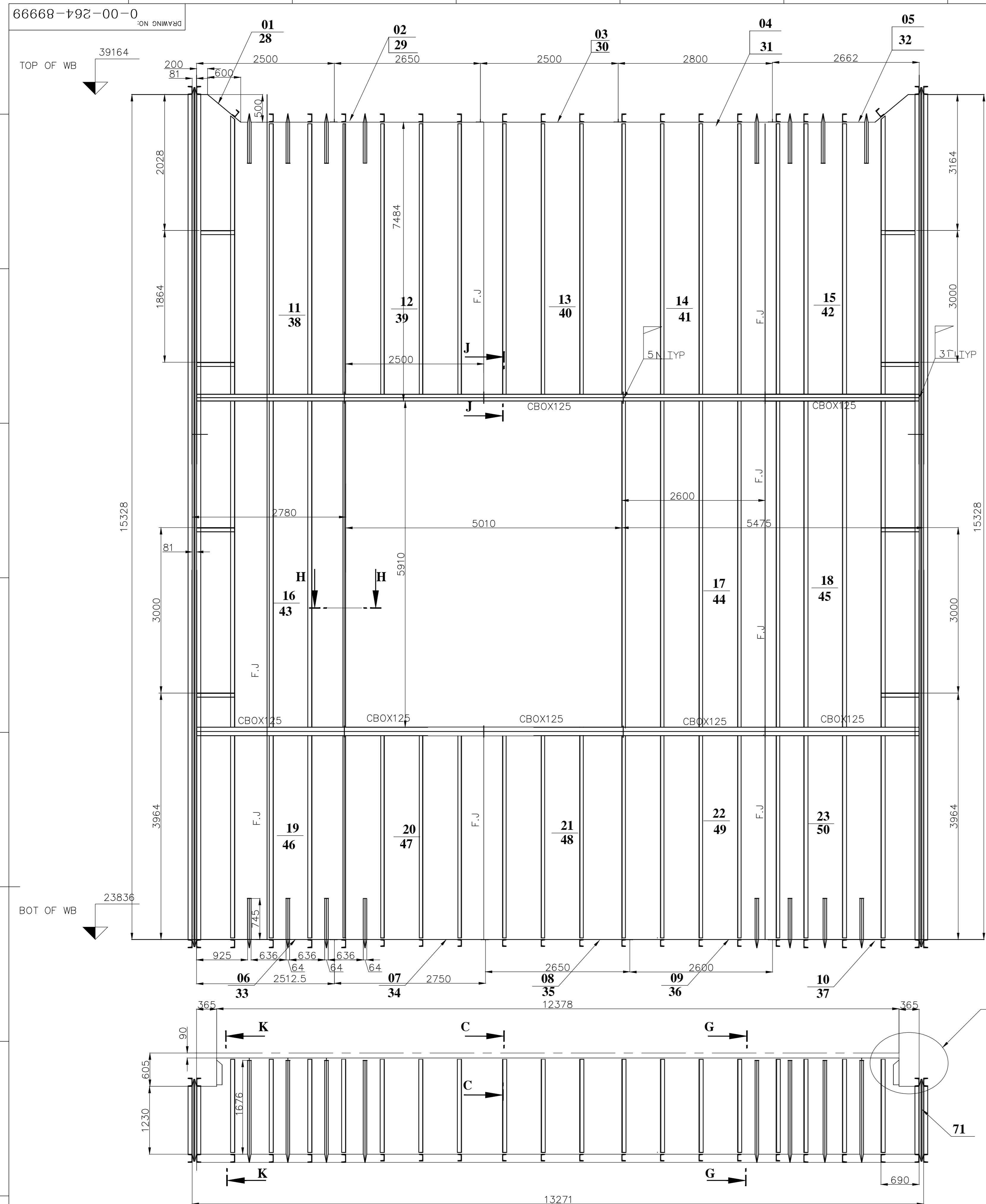
ZONE: \_\_\_\_\_



SECTION-D3 D3

REV	DATE	ALTERED	CHD & APPD
01			





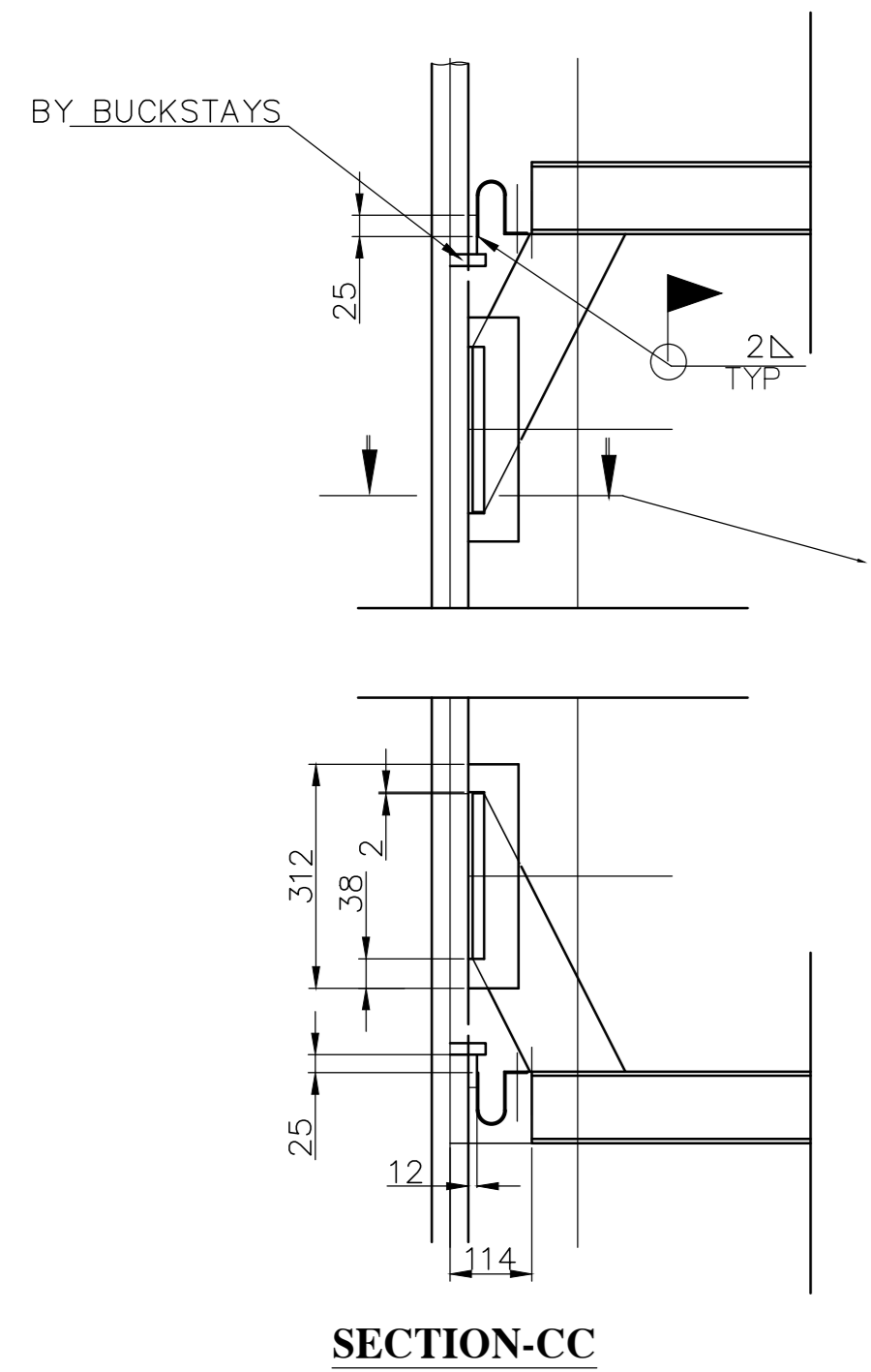
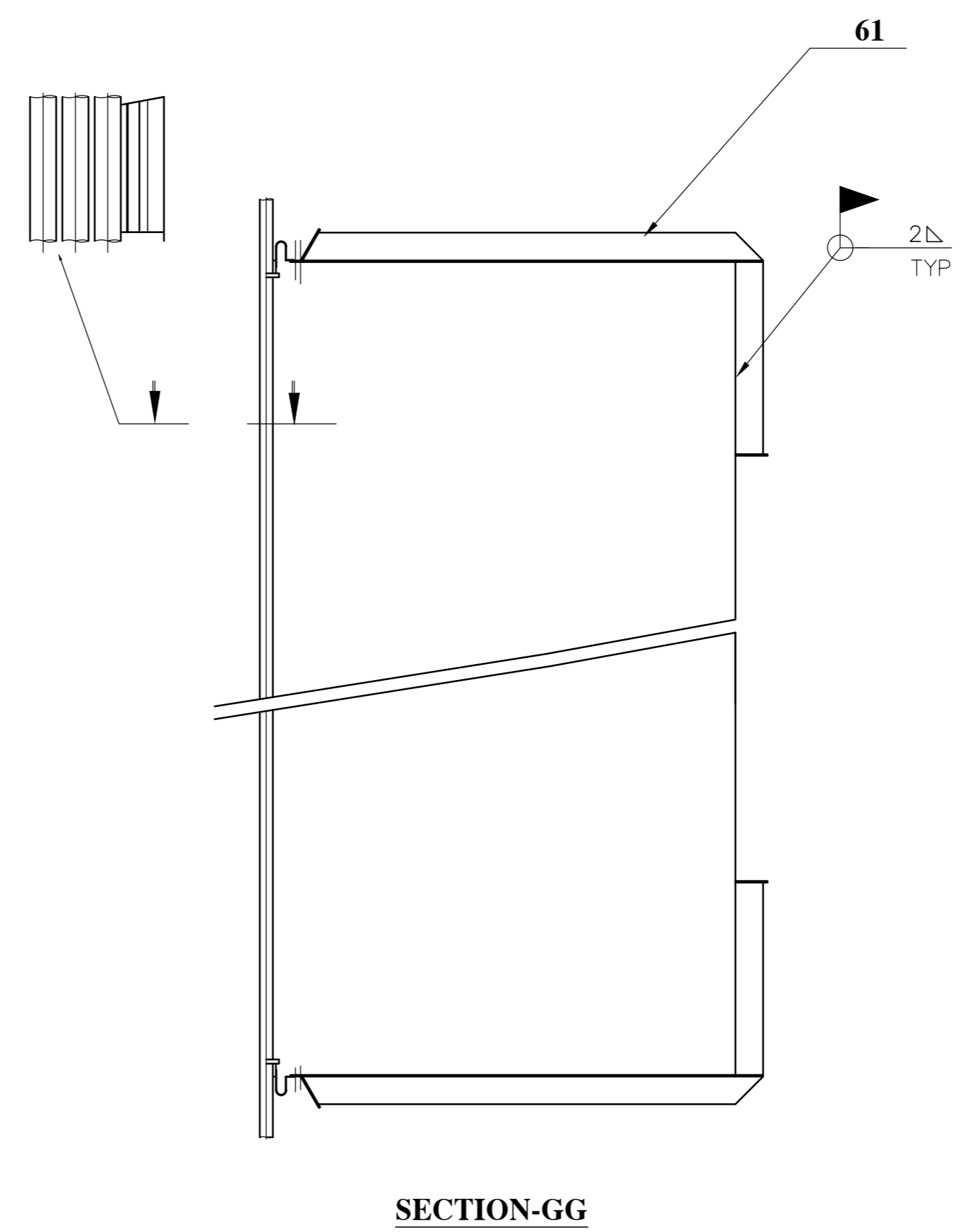
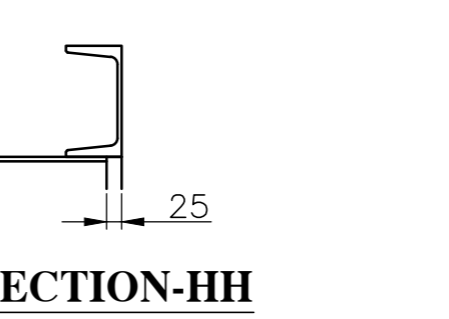
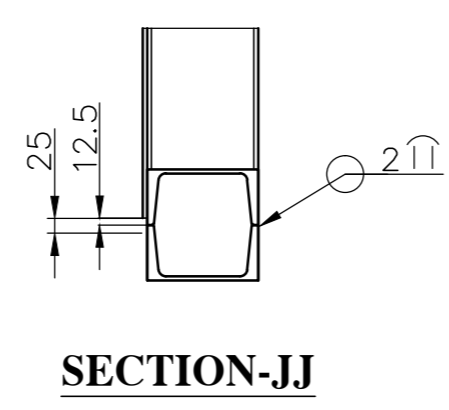
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72	48-212	TUBE DIA 76.1X4.5; 70 MTR	*	1	*	MATL FROM 48-993
71	48-214	HS EXPN JT # 16943X1260	017	4		
70	48-214	EXPN. JOINT (PART) SH 2x207x6800	016	2		
69	48-214	EXPN. JOINT (PART) SH 2x207x6236	015	2		
68	48-214	EXPN. JOINT (PART) SH 2x207x2368	014	2		
67	48-214	EXPN. JOINT (PART) SH 2x78X120	013	2		
66	48-214	EXPN. JOINT (PART) SH 2x207x775 (CTS)	012	2		
65	48-214	EXPN. JOINT (PART) SH 2x207x5755 (CTS)	011	2		
64	48-214	EXPN. JOINT (PART) SH 2x207x5755 (CTS)	010	2		
63	48-214	EXPN. JOINT (PART) SH 2x207x773 (CTS)	009	2		
62	48-214	EXPN. JOINT (PART) SH 2x78X120	008	2		
61	48-214	EXPN. JOINT (PART) SH 2x207x2368	007	2		

NO	PG-MA	DESCRIPTION	PIECE MARK NO	DU NO	QTY	ZONE
60	48-214	EXPN. JOINT (PART) SH 2x207x6236	006	2		
59	48-214	EXPN. JOINT (PART) SH 2x207x6800	005	2		
58	48-214	EXPN. JOINT (PART) SH 2x207x6266	004	2		
57	48-214	EXPN. JOINT (PART) SH 2x207x6266	003	2		
56	48-214	EXPN. JOINT	002	32		
55	48-214	EXPN. JOINT	001	80		
54	48-212	DUCT WALL	054	1		
53	48-212	DUCT WALL	053	1		
52	48-212	DUCT WALL	052	2		
51	48-212	DUCT WALL	051	2		
50	48-212	DUCT WALL	050	1		
49	48-212	DUCT WALL	049	1		
48	48-212	DUCT WALL	048	1		
47	48-212	DUCT WALL	047	1		
46	48-212	DUCT WALL	046	1		
45	48-212	DUCT WALL	045	1		
44	48-212	DUCT WALL	044	1		
43	48-212	DUCT WALL	043	1		
42	48-212	DUCT WALL	042	1		
41	48-212	DUCT WALL	041	1		
40	48-212	DUCT WALL	040	1		
39	48-212	DUCT WALL	039	1		
38	48-212	DUCT WALL	038	1		
37	48-212	DUCT WALL	037	1		
36	48-212	DUCT WALL	036	1		
35	48-212	DUCT WALL	035	1		
34	48-212	DUCT WALL	034	1		
33	48-212	DUCT WALL	033	1		

NO	PG-MA	DESCRIPTION	PIECE MARK NO	DU NO	QTY	ZONE
32	48-212	DUCT WALL	032	1		
31	48-212	DUCT WALL	031	1		
30	48-212	DUCT WALL	030	1		
29	48-212	DUCT WALL	029	1		
28	48-212	DUCT WALL	028	1		
27	48-212	DUCT WALL	027	1		
26	48-212	DUCT WALL	026	1		
25	48-212	DUCT WALL	025	2		
24	48-212	DUCT WALL	024	2		
23	48-212	DUCT WALL	023	1		
22	48-212	DUCT WALL	022	1		
21	48-212	DUCT WALL	021	1		
20	48-212	DUCT WALL	020	1		
19	48-212	DUCT WALL	019	1		
18	48-212	DUCT WALL	018	1		
17	48-212	DUCT WALL	017	1		
16	48-212	DUCT WALL	016	1		
15	48-212	DUCT WALL	015	1		
14	48-212	DUCT WALL	014	1		
13	48-212	DUCT WALL	013	1		
12	48-212	DUCT WALL	012	1		
11	48-212	DUCT WALL	011	1		
10	48-212	DUCT WALL	010	1		
09	48-212	DUCT WALL	009	1		
08	48-212	DUCT WALL	008	1		
07	48-212	DUCT WALL	007	1		
06	48-212	DUCT WALL	006	1		
05	48-212	DUCT WALL	005	1		
04	48-212	DUCT WALL	004	1		
03	48-212	DUCT WALL	003	1		
02	48-212	DUCT WALL	002	1		
01	48-212	DUCT WALL	001	1		

NOTE:  
READ THIS DRAWING ALONG WITH THE FOLLOWING DRAWINGS

- 0-00-264-89962
- 0-00-264-89998
- 1-00-264-20880
- 0-00-264-89997



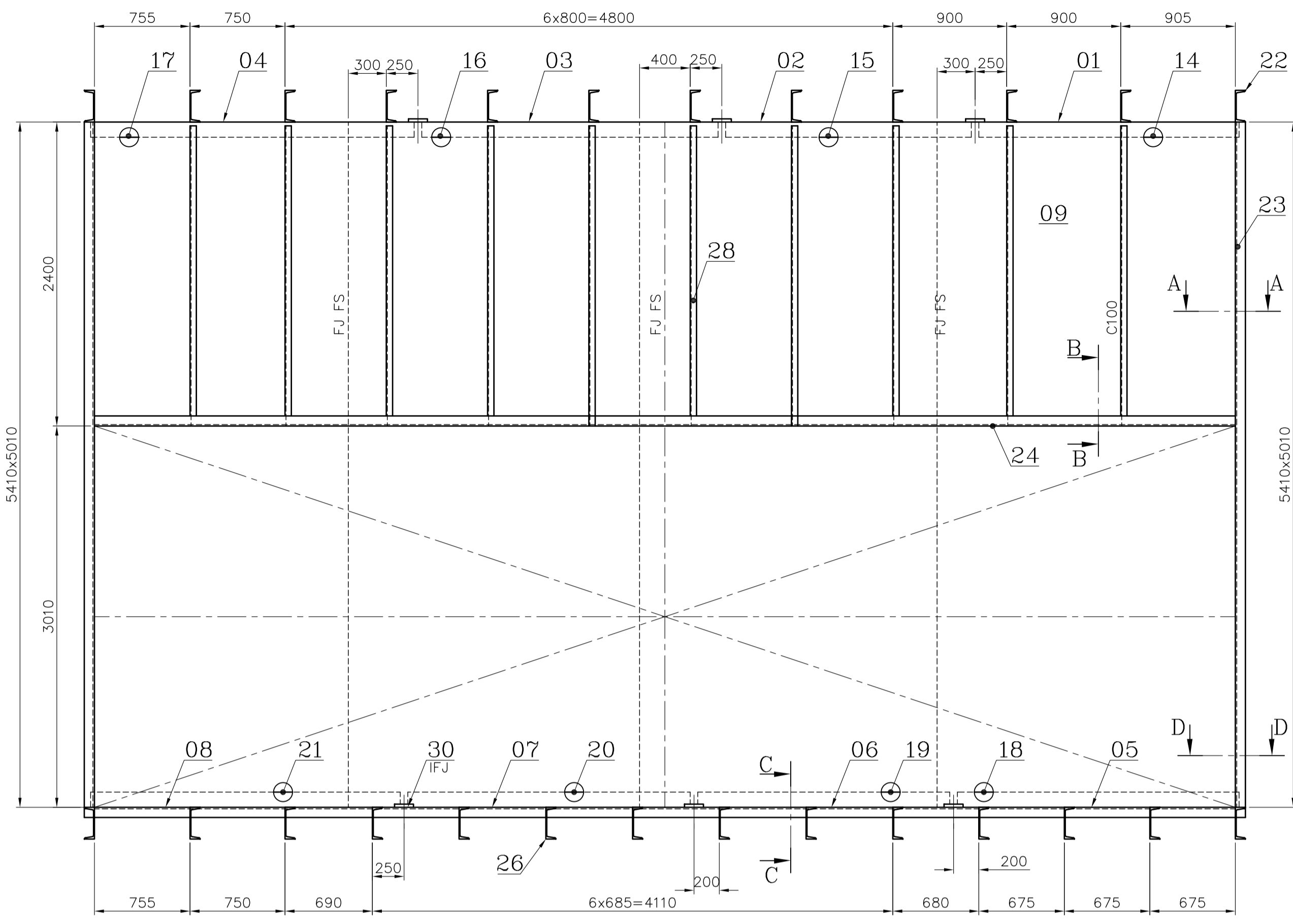
PROJECT: SAMPLE-ARRANGEMENT DRG - (SH.05/05)

BHARAT HEAVY ELECTRICALS LIMITED.,  
BOILER PLANT UNIT, TIRUCHRAPALLI-620014  
EQUIPMENT : STEAM GENERATOR

NAME	SIGNATURE	DATE	TITLE
DRN KULA		29.06.12	AH TO WINDBOX
CHD RAMANA		29.06.12	DUCTING (SH 05/05)
APPL SHAN		29.06.12	

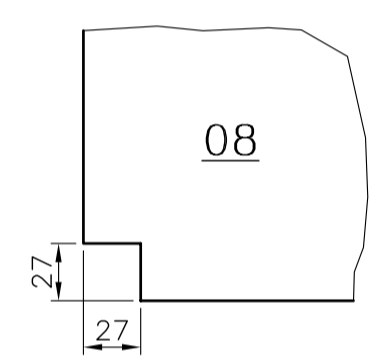
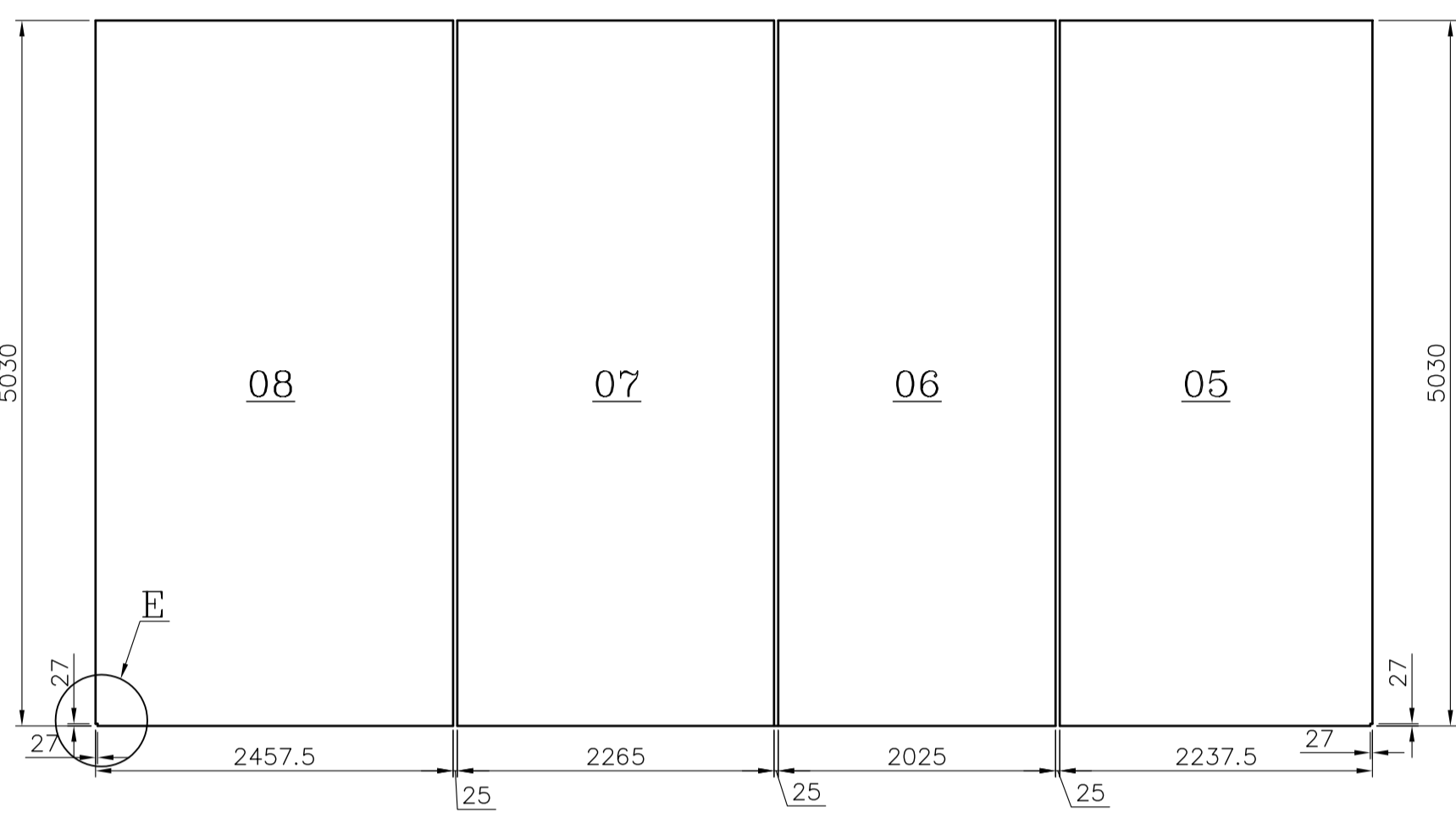
ALL DIMENSIONS IN MILLIMETRE  
SCALE: N.T.S  
DRG. NO: 0-00-264-89999

REV	DATE	ALTERED	BY	APPD
01				



**NOTE:**

- 01. FOR GENERAL NOTES REFER PAGE NO. 41 (REF:41) OF DUCT CONSTRUCTION MANUAL. REF122 FOR CONSTRUCTION DETAIL.
- 02. NTPC, CORNER SS TYPE, FIELD ASSEMBLED DUCT

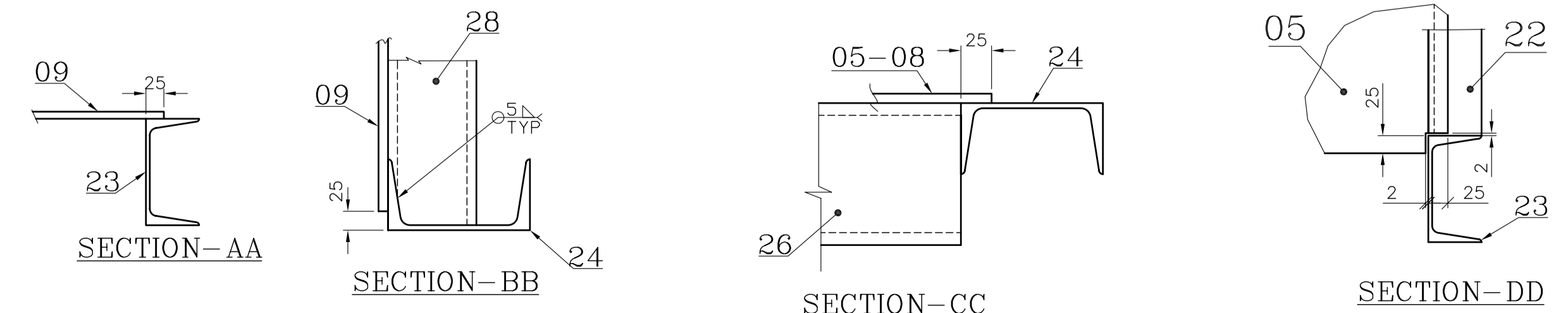
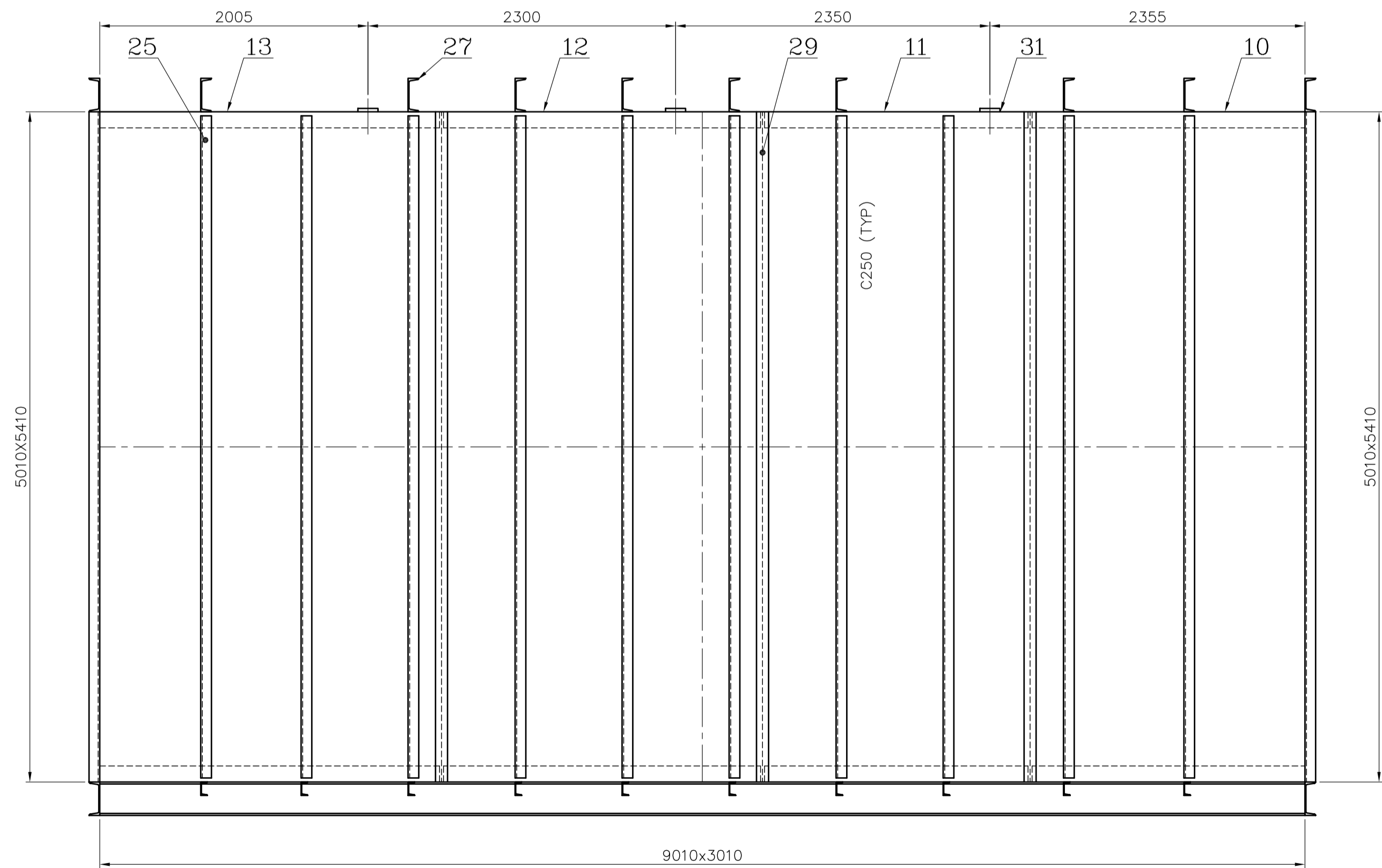


DETAIL-E

**DESPATCH TABLE**

SL. NO.	DESCRIPTION	DU NO.	NO. OFF	ITEM NO. NO.OFF				
				01	14	22	25	29
1	T DUCT WALL	044	1	1	2	1	2	1
2	T DUCT WALL	045	1	1	2	2	1	
3	T DUCT WALL	046	1	1	2	3	1	
4	T DUCT WALL	047	1	1	2	1	3	
5	T DUCT WALL	048	1	05	18	22	26	30
6	T DUCT WALL	049	1	1	1	3	1	
7	T DUCT WALL	050	1	1	1	3	1	
8	T DUCT WALL	051	1	1	1	1	3	
9	T DUCT WALL	052	1	1	1	10		
10	T DUCT WALL	053	1	1	1	2		
11	T DUCT WALL	054	1	1	1	2		
12	T DUCT WALL	055	1	1	2	3		
13	T DUCT WALL	056	1	1	1	1	1	
14	CHANNEL	057	2	23				
15	CHANNEL	058	1	24				

ITEM NO.	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO. VAR NO	MATERIAL CODE	MATERIAL SPECN	UNIT WEIGHT	QUANTITY	CS	ZONE
31	PLATE 5 125x5400				150110290000	IS2062Fe410A	26.490			
30	PLATE 5 125x4955				150110290000	IS2062Fe410A	24.310			
29	PLATE 5 125x5000				150110290000	IS2062Fe410A	24.530			
28	ISMC 100 2365				150100030000	IS2062Fe410A	22.600			
27	ISMC 250 5350				150100340000	IS2062Fe410A	182.970			
26	ISMC 250 4980				150100340000	IS2062Fe410A	170.310			
25	ISMC 250 4950				150100340000	IS2062Fe410A	169.290			
24	ISMC 250 9010				150100340000	IS2062Fe410A	308.140			
23	ISMC 250 5410				150100340000	IS2062Fe410A	185.020			
22	ISMC 250 5510				150100340000	IS2062Fe410A	188.440			
21	ISA 75X75X6 2468.5				150130050000	IS2062Fe410A	16.780			
20	ISA 75X75X6 2287				150130050000	IS2062Fe410A	15.550			
19	ISA 75X75X6 2047				150130050000	IS2062Fe410A	13.920			
18	ISA 75X75X6 2248.5				150130050000	IS2062Fe410A	15.290			
17	ISA 75X75X6 2578.5				150130050000	IS2062Fe410A	17.530			
16	ISA 75X75X6 2397				150130050000	IS2062Fe410A	16.300			
15	ISA 75X75X6 1997				150130050000	IS2062Fe410A	13.580			
14	ISA 75X75X6 2078.5				150130050000	IS2062Fe410A	14.130			
13	PLATE 5 5400x2017.5				150110290000	IS2062Fe410A	427.600			
12	PLATE 5 5400x2275				150110290000	IS2062Fe410A	482.180			
11	PLATE 5 5400x2325				150110290000	IS2062Fe410A	492.780			
10	PLATE 5 5400x2367.5				150110290000	IS2062Fe410A	501.790			
09	PLATE 5 2370x9060				150110290000	IS2062Fe410A	842.780			
08	PLATE 5 5030x2457.5				150110290000	IS2062Fe410A	485.140			
07	PLATE 5 5030x2265				150110290000	IS2062Fe410A	447.170			
06	PLATE 5 5030x2025				150110290000	IS2062Fe410A	399.790			
05	PLATE 5 5030x2237.5				150110290000	IS2062Fe410A	441.710			
04	PLATE 5 5000x2567.5				150110290000	IS2062Fe410A	503.870			
03	PLATE 5 5000x2375				150110290000	IS2062Fe410A	466.090			
02	PLATE 5 5000x1975				150110290000	IS2062Fe410A	387.590			
01	PLATE 5 5000x2067.5				150110290000	IS2062Fe410A	405.740			



TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

**Bharat Heavy Electricals Ltd**  
UNIT: HIGH PRESSURE BOILER PLANT  
TIRUCHIRAPALLI - 620014

DRN: EOL/KUMAR  
CHD: K.P.  
APPD: P.K.ADHI

DATE: 17-12-09  
DATE: 17-12-09  
DATE: 17-12-09

355-053  
DEPT: DU  
CODE: 124

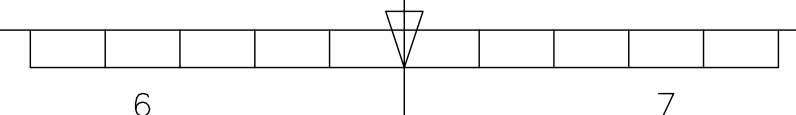
ALL DIMENSIONS ARE IN MM  
PROJECTION: N.T.S.  
SCALE: N.T.S.

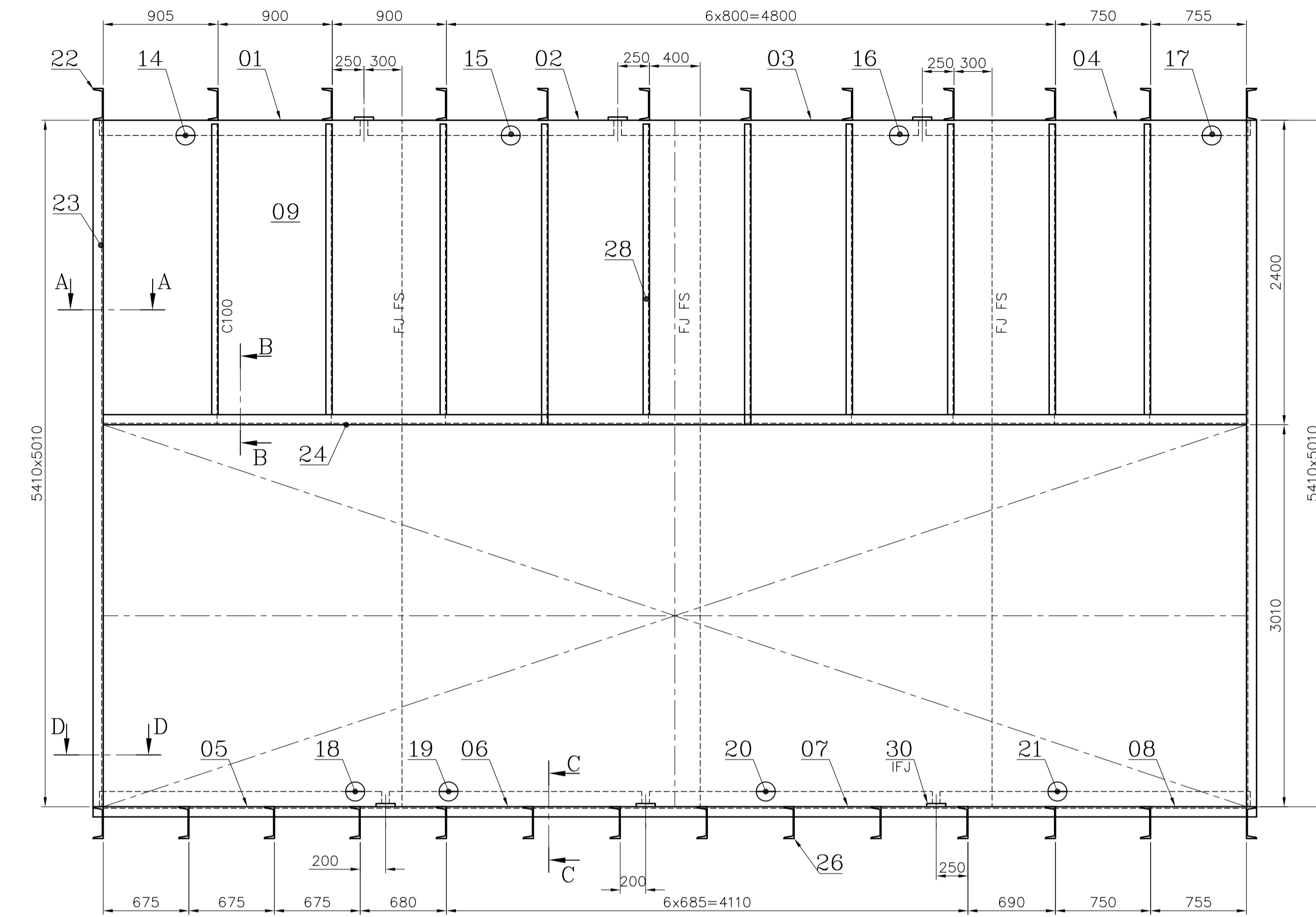
WEIGHT (Kg): 14231.340

REF TO ASSY / OLD DWG

DRAWING NO: 1-48-202-40984  
REV

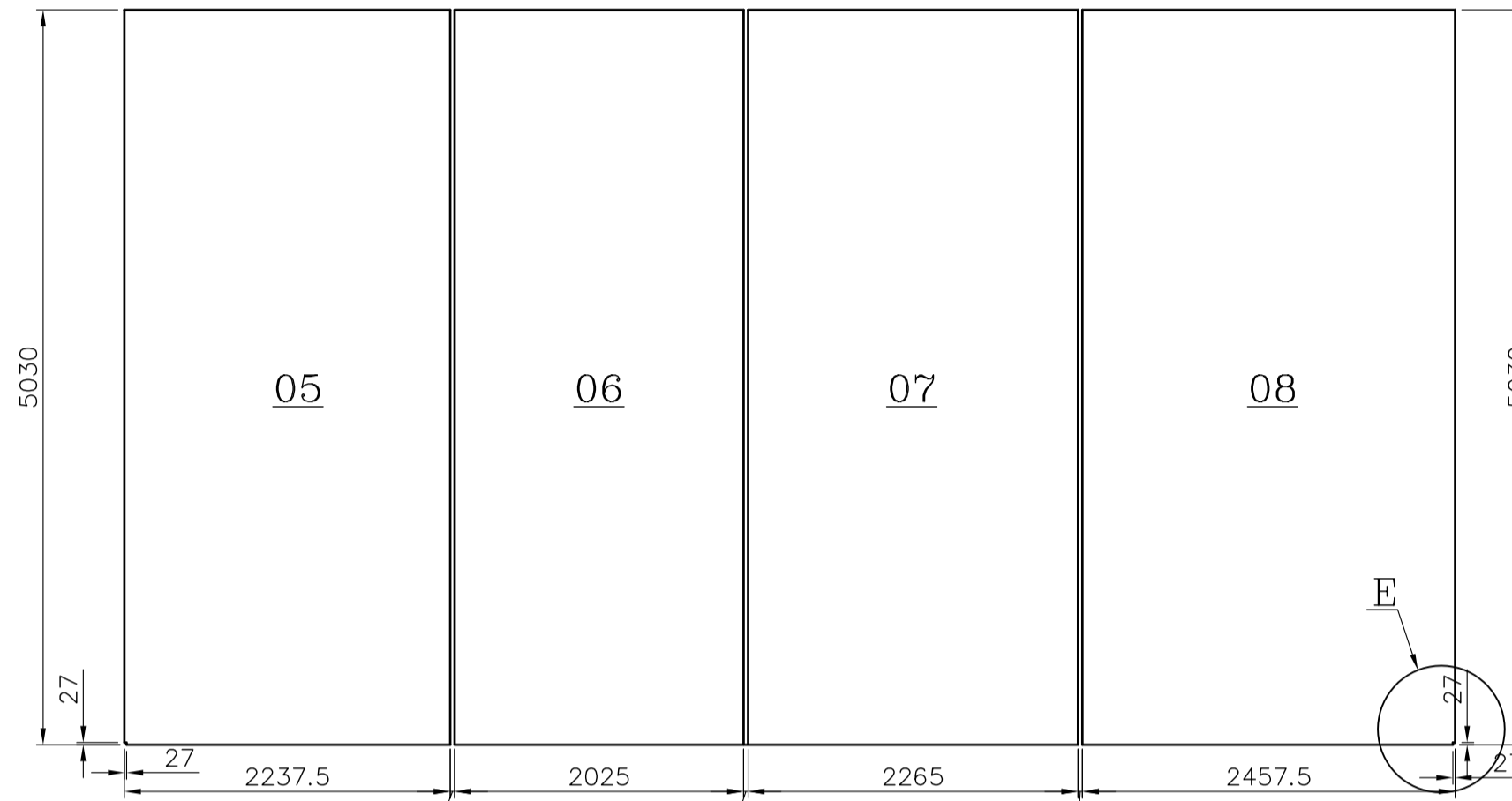
REV	DATE	ALTERED
01		CHD & APPD





**NOTE:**

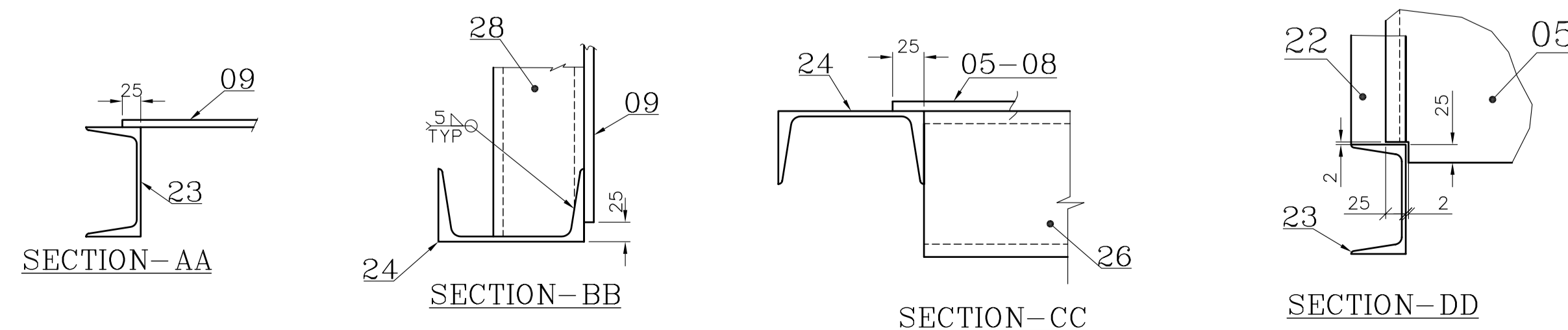
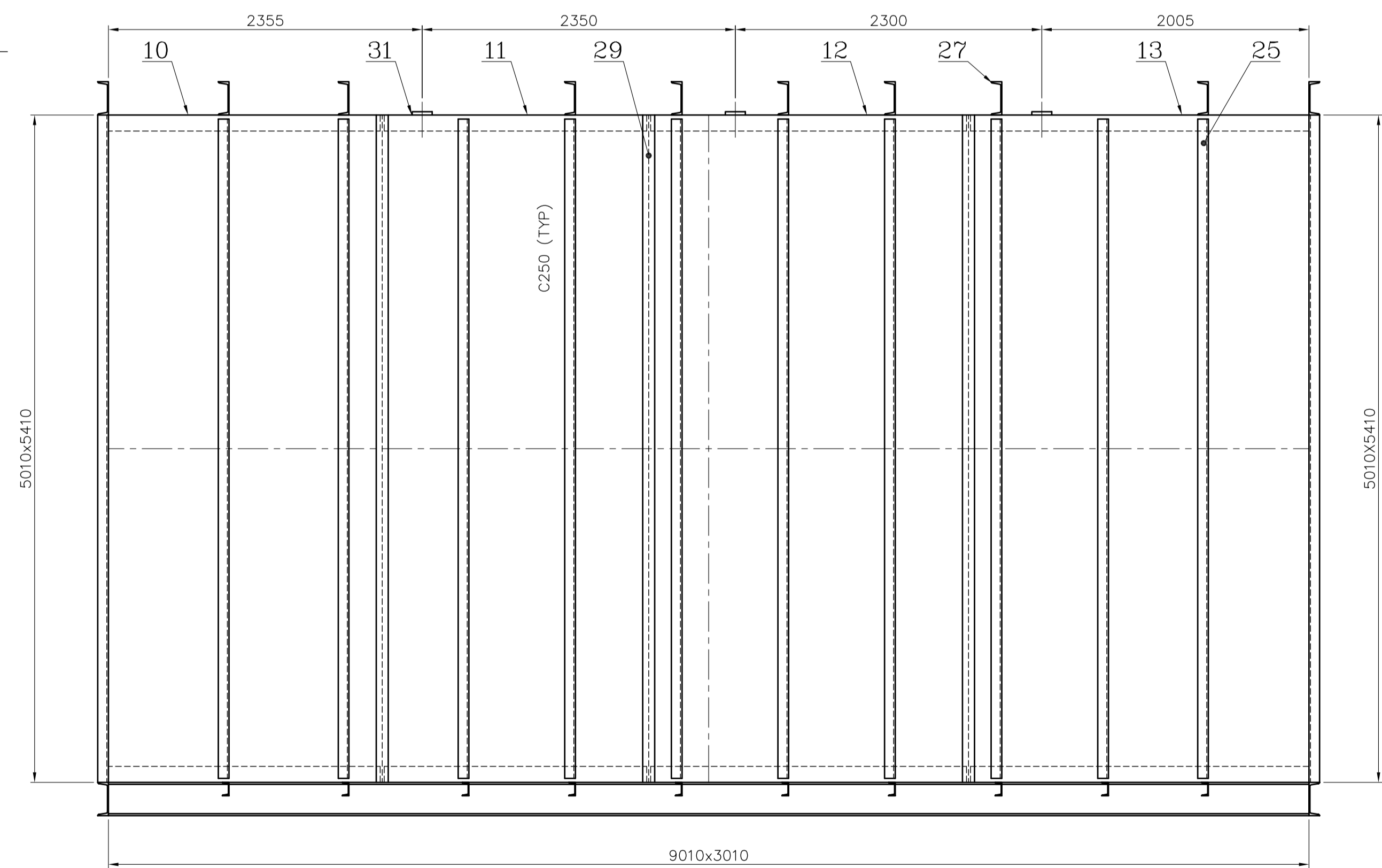
- 01. FOR GENERAL NOTES REFER PAGE NO. 41 (REF:41) OF DUCT CONSTRUCTION MANUAL. REF122 FOR CONSTRUCTION DETAIL.
- 02. NTPC, CORNER SS TYPE, FIELD ASSEMBLED DUCT



**DETAIL- E**

**DESPATCH TABLE**

SL. NO.	DESCRIPTION	DU NO.	NO. OFF	ITEM NO. NO.OFF				
				01	14	22	25	29
1	T DUCT WALL	067	1	01	14	22	25	29
2	T DUCT WALL	068	1	02	15	25	29	
3	T DUCT WALL	069	1	03	16	25	29	
4	T DUCT WALL	070	1	04	17	22	25	
5	T DUCT WALL	071	1	05	18	22	26	30
6	T DUCT WALL	072	1	06	19	26	30	
7	T DUCT WALL	073	1	07	20	26	30	
8	T DUCT WALL	074	1	08	21	22	26	
9	T DUCT WALL	075	1	09	24	28		
10	T DUCT WALL	076	1	10	23	27		
11	T DUCT WALL	077	1	11	27	31		
12	T DUCT WALL	078	1	12	27	31		
13	T DUCT WALL	079	1	13	23	27	31	
14	CHANNEL	080	2	23				
15	CHANNEL	081	1	24				



ITEM NO.	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO. VAR NO	MATERIAL CODE MATERIAL SPECN	A/C/P UNIT DI	UNIT WEIGHT QUANTITY	CS ZONE
31	PLATE 5 125x5400				150110290000 IS2062Fe410A		26.490 3	
30	PLATE 5 125x4955				150110290000 IS2062Fe410A		24.310 3	
29	PLATE 5 125x5000				150110290000 IS2062Fe410A		24.530 3	
28	ISM 100 2365				150100030000 IS2062Fe410A		22.600 10	
27	ISM 250 5350				150100340000 IS2062Fe410A		182.970 8	
26	ISM 250 4980				150100340000 IS2062Fe410A		170.310 12	
25	ISM 250 4950				150100340000 IS2062Fe410A		169.290 10	
24	ISM 250 9010				150100340000 IS2062Fe410A		308.140 2	
23	ISM 250 5410				150100340000 IS2062Fe410A		185.020 4	
22	ISM 250 5510				150100340000 IS2062Fe410A		188.440 4	
21	ISA 75X75X6 2468.5				150130050000 IS2062Fe410A		16.780 1	
20	ISA 75X75X6 2287				150130050000 IS2062Fe410A		15.550 1	
19	ISA 75X75X6 2047				150130050000 IS2062Fe410A		13.920 1	
18	ISA 75X75X6 2248.5				150130050000 IS2062Fe410A		15.290 1	
17	ISA 75X75X6 2578.5				150130050000 IS2062Fe410A		17.530 2	
16	ISA 75X75X6 2397				150130050000 IS2062Fe410A		16.300 2	
15	ISA 75X75X6 1997				150130050000 IS2062Fe410A		13.580 2	
14	ISA 75X75X6 2078.5				150130050000 IS2062Fe410A		14.130 2	
13	PLATE 5 5400x2017.5				150110290000 IS2062Fe410A		427.600 1	
12	PLATE 5 5400x2275				150110290000 IS2062Fe410A		482.180 1	
11	PLATE 5 5400x2325				150110290000 IS2062Fe410A		492.780 1	
10	PLATE 5 5400x2367.5				150110290000 IS2062Fe410A		501.790 1	
09	PLATE 5 2370x9060				150110290000 IS2062Fe410A		842.780 1	
08	PLATE 5 5030x2457.5				150110290000 IS2062Fe410A		485.140 1	
07	PLATE 5 5030x2265				150110290000 IS2062Fe410A		447.170 1	
06	PLATE 5 5030x2025				150110290000 IS2062Fe410A		399.790 1	
05	PLATE 5 5030x2237.5				150110290000 IS2062Fe410A		441.710 1	
04	PLATE 5 5000x2567.5				150110290000 IS2062Fe410A		503.870 1	
03	PLATE 5 5000x2375				150110290000 IS2062Fe410A		466.090 1	
02	PLATE 5 5000x1975				150110290000 IS2062Fe410A		387.590 1	
01	PLATE 5 5000x2067.5				150110290000 IS2062Fe410A		405.740 1	

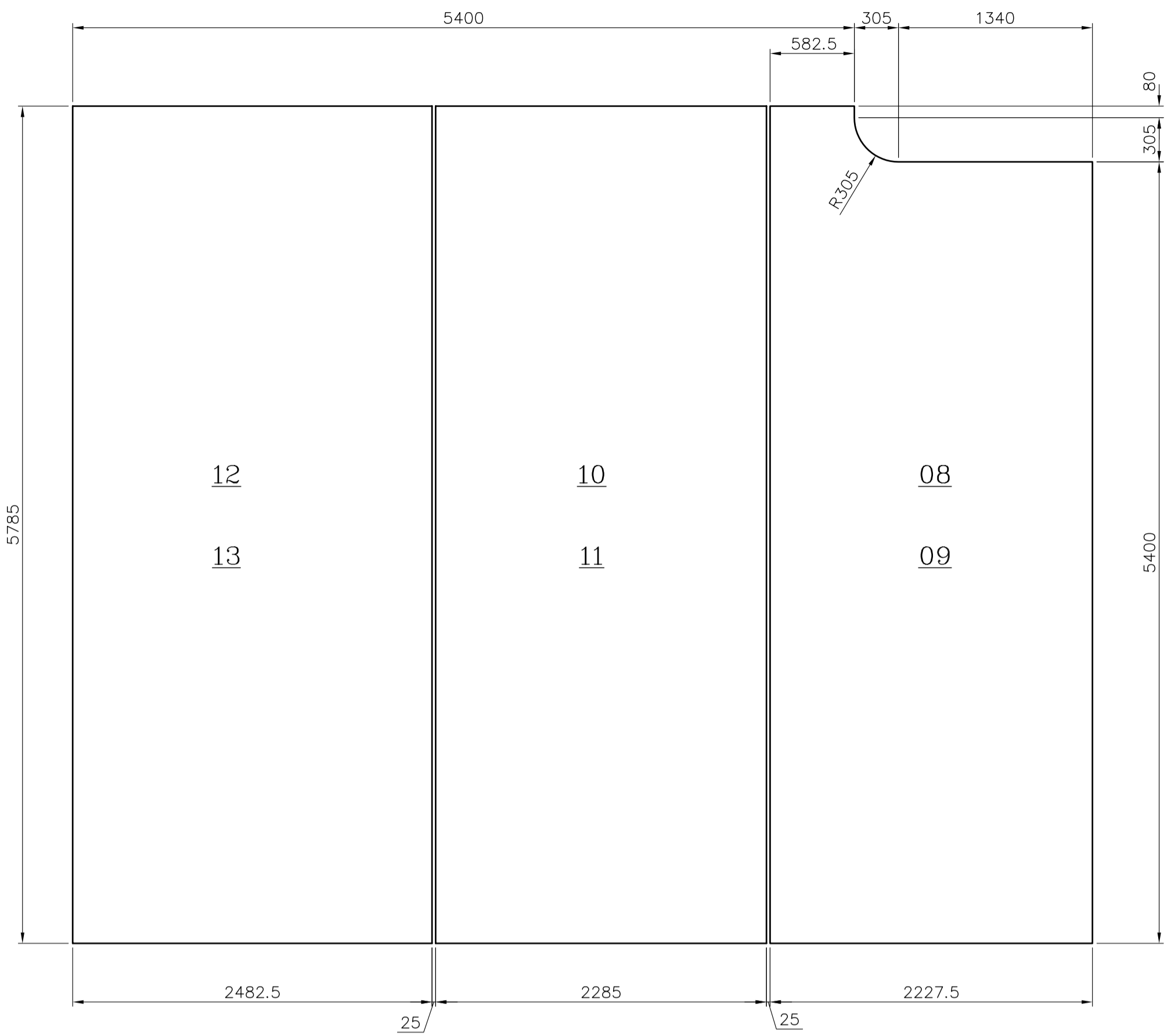
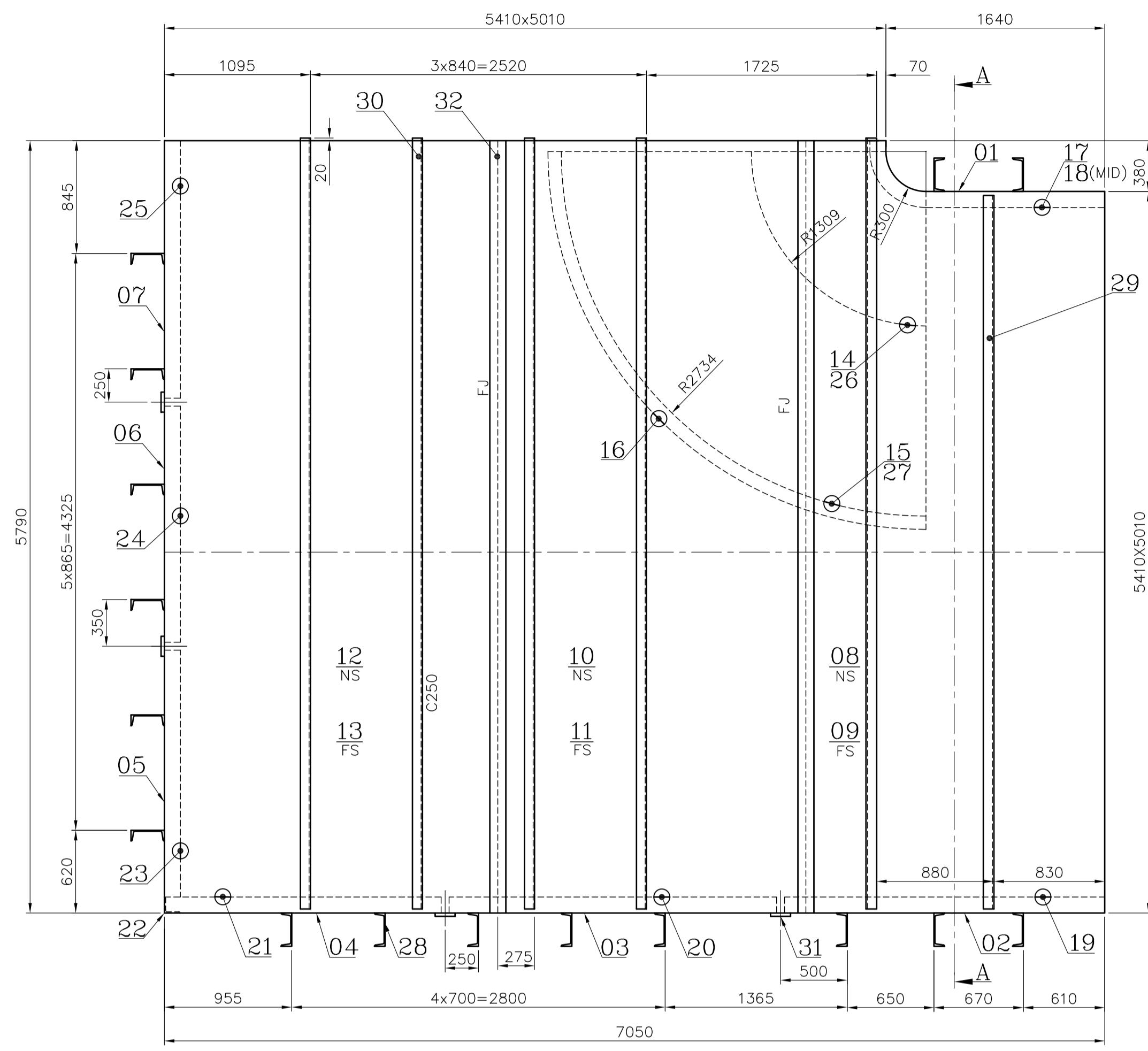
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

**Bharat Heavy Electricals Ltd**  
UNIT: HIGH PRESSURE BOILER PLANT  
TIRUCHIRAPALLI - 620014

DRN: CHD  
EOL/KUMAR  
K.P.  
P.K. ADHISIGNATURE: P.K. ADHI  
DATE: 17-12-09

355-053  
DEPT: DU  
CODE: 124  
ALL DIMENSIONS ARE IN MM  
PROJECTION: N.T.S  
SCALE: N.T.S  
WEIGHT (Kg): 14231.340  
REF TO ASSY / OLD DWG

TITILE: **T DUCT**  
DRAWING NO.: 1-48-202-40985  
REV



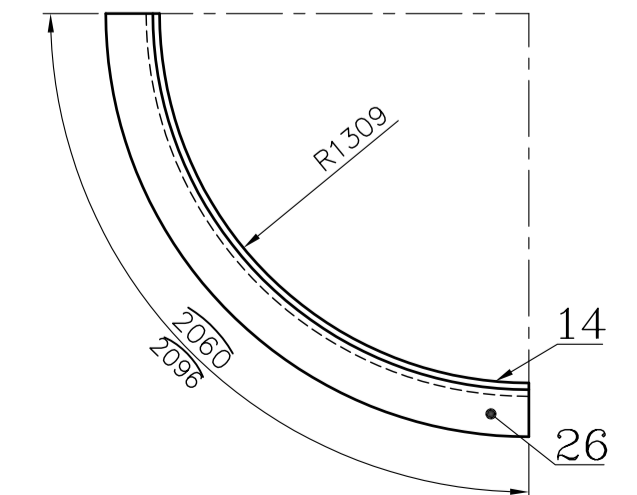
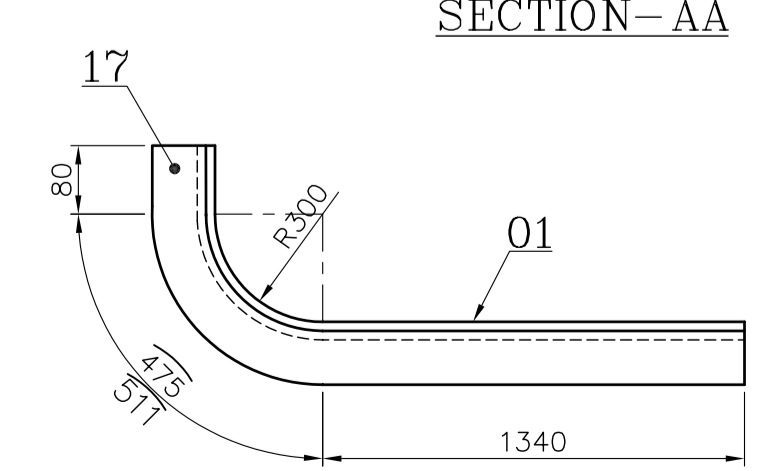
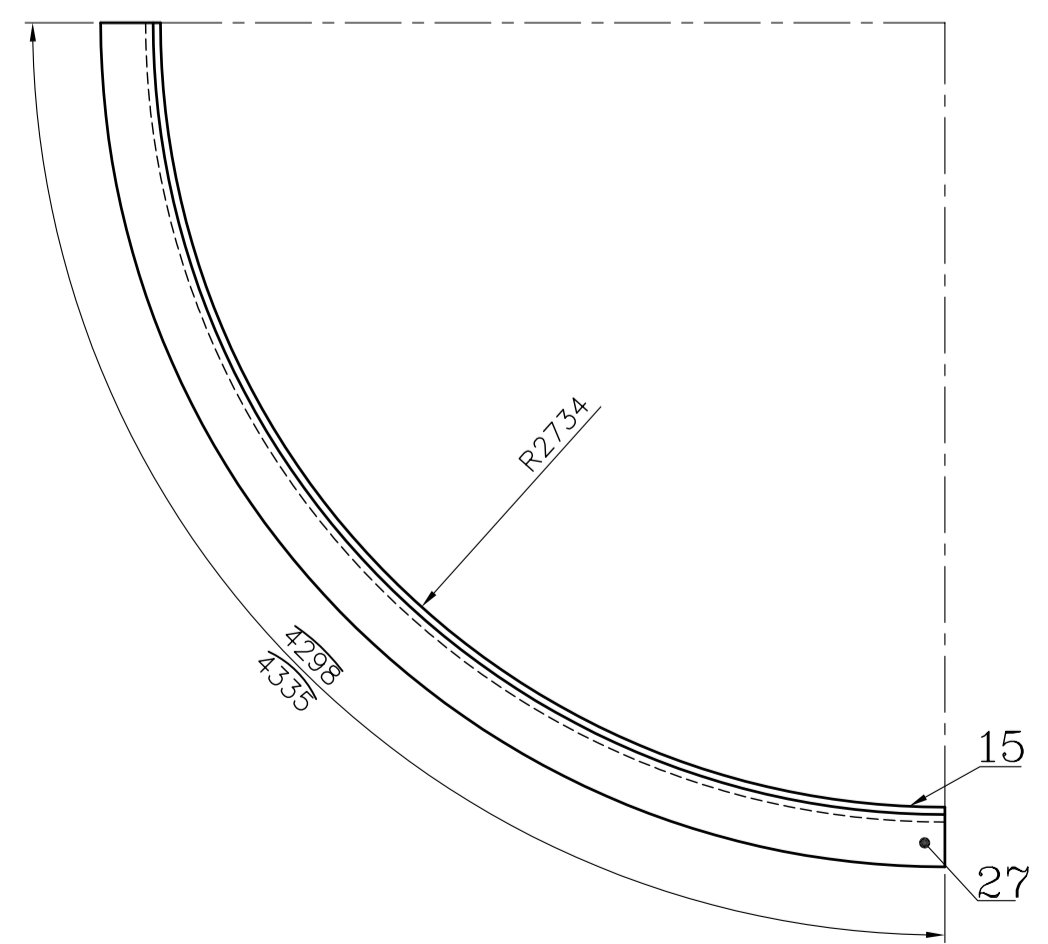
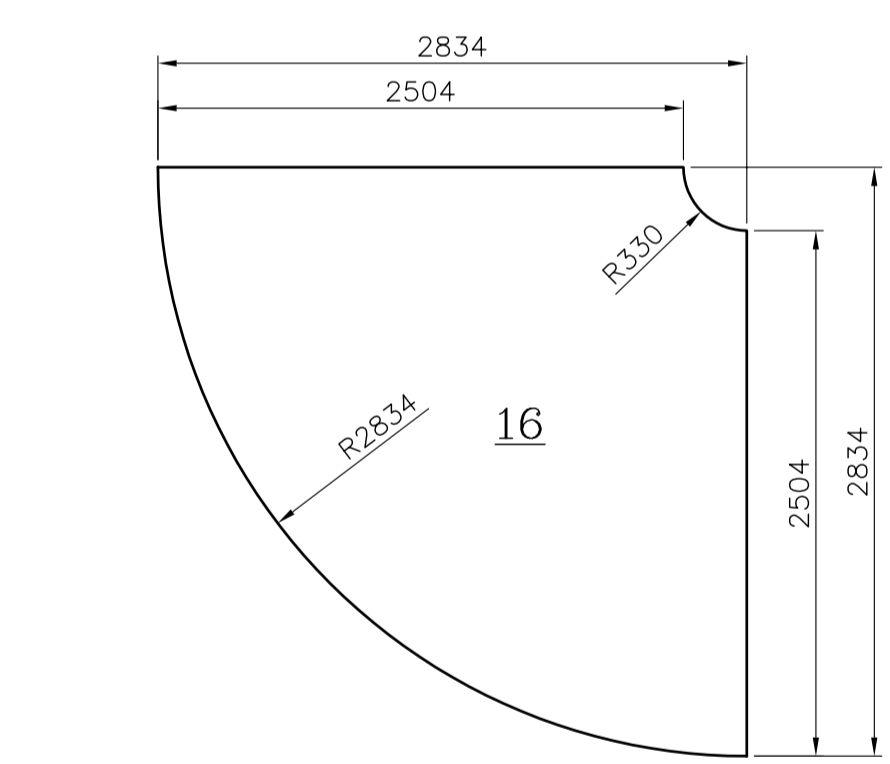
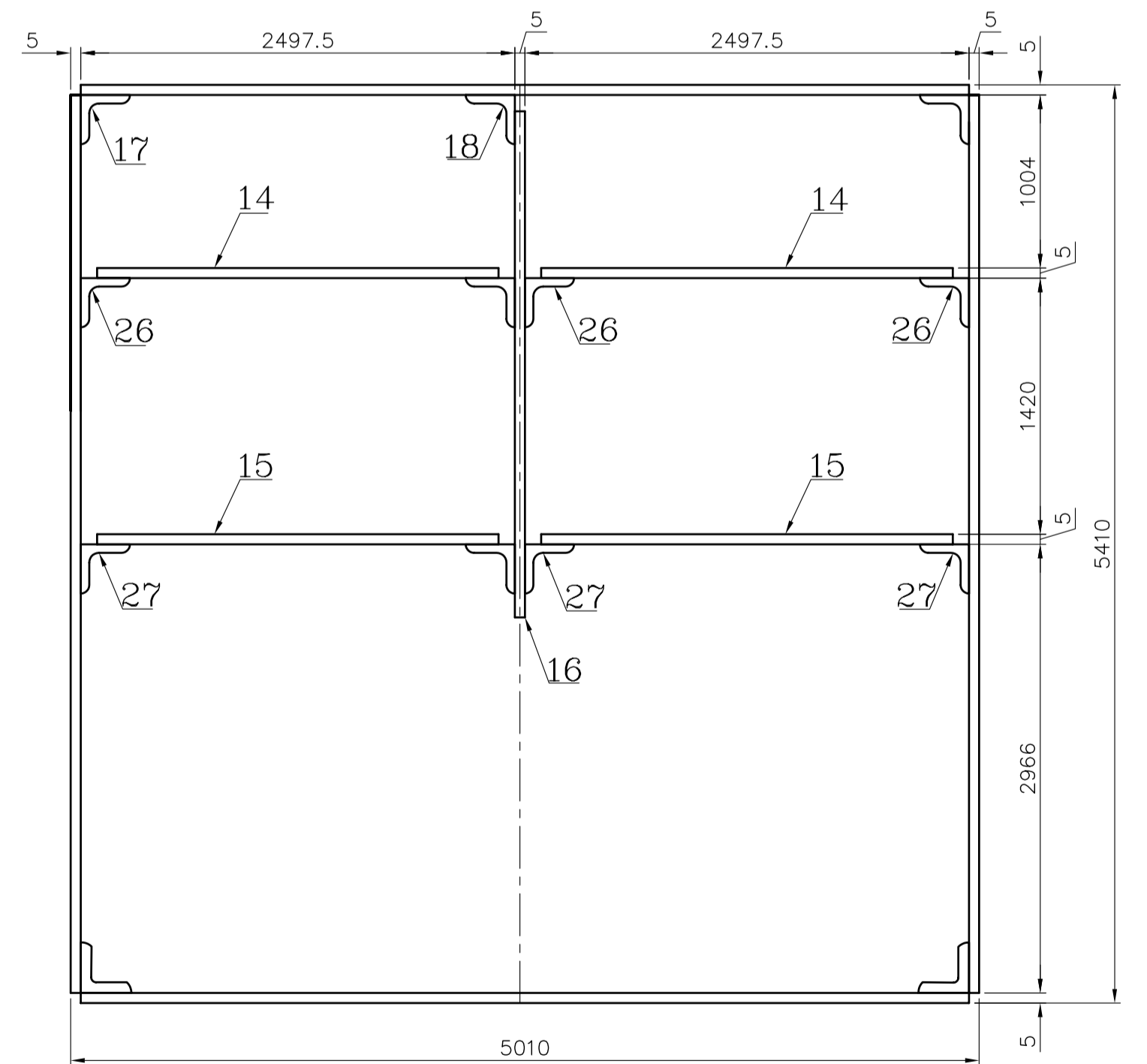
**NOTE:**  
01. FOR GENERAL NOTES REFER PAGE NO. 41 (REF:41) OF DUCT CONSTRUCTION MANUAL. REF122 FOR CONSTRUCTION DETAIL.  
02. NTPC, CORNER SS TYPE, FIELD ASSEMBLED DUCT.

ITEM NO.	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	CS	ZONE
32	PLATE 5 125x5785			150110290000	IS2062Fe410A			28.380		
				150110290000	IS2062Fe410A			4		
31	PLATE 5 125x5000			150110290000	IS2062Fe410A			24.530		
				150100340000	IS2062Fe410A			4		
30	ISMC 250 5780			150100340000	IS2062Fe410A			197.670		
				150100340000	IS2062Fe410A			10		
29	ISMC 250 5350			150100340000	IS2062Fe410A			182.970		
				150100340000	IS2062Fe410A			2		
28	ISMC 250 4950			150100340000	IS2062Fe410A			169.290		
				150130050000	IS2062Fe410A			16		
27	ISA 75X75X6 4335			150130050000	IS2062Fe410A			29.470		
				150130050000	IS2062Fe410A			4		
26	ISA 75X75X6 2096			150130050000	IS2062Fe410A			14.250		
				150130050000	IS2062Fe410A			4		
25	ISA 75X75X6 1958.5			150130050000	IS2062Fe410A			13.310		
				150130050000	IS2062Fe410A			2		
24	ISA 75X75X6 1827			150130050000	IS2062Fe410A			12.420		
				150130050000	IS2062Fe410A			2		
23	ISA 75X75X6 1918.5			150130050000	IS2062Fe410A			13.040		
				150130050000	IS2062Fe410A			2		
22	ISA 75X75X6 4988			150130050000	IS2062Fe410A			33.910		
				150130050000	IS2062Fe410A			1		
21	ISA 75X75X6 2098.5			150130050000	IS2062Fe410A			14.270		
				150130050000	IS2062Fe410A			2		
20	ISA 75X75X6 2512			150130050000	IS2062Fe410A			17.080		
				150130050000	IS2062Fe410A			2		
19	ISA 75X75X6 2428.5			150130050000	IS2062Fe410A			16.510		
				150130050000	IS2062Fe410A			2		
18	ISA 75X75X6 511			150130050000	IS2062Fe410A			3.470		
				150130050000	IS2062Fe410A			1		
17	ISA 75X75X6 1931			150130050000	IS2062Fe410A			13.130		
				150130050000	IS2062Fe410A			2		
16	PLATE 5 2834x2834			150110290000	IS2062Fe410A			244.680		
				150110290000	IS2062Fe410A			1		
15	PLATE 5 2447.5x4298			150110290000	IS2062Fe410A			412.880		
				150110290000	IS2062Fe410A			2		
14	PLATE 5 2447.5x2060			150110290000	IS2062Fe410A			197.890		
				150110290000	IS2062Fe410A			2		
13	PLATE 5 2482.5x5785			150110290000	IS2062Fe410A			563.680		
				150110290000	IS2062Fe410A			1		
12	PLATE 5 2482.5x5785			150110290000	IS2062Fe410A			563.680		
				150110290000	IS2062Fe410A			1		
11	PLATE 5 2285x5785			150110290000	IS2062Fe410A			518.830		
				150110290000	IS2062Fe410A			1		
10	PLATE 5 2285x5785			150110290000	IS2062Fe410A			518.830		
				150110290000	IS2062Fe410A			1		
09	PLATE 5 2227.5x5785			150110290000	IS2062Fe410A			484.770		
				150110290000	IS2062Fe410A			1		
08	PLATE 5 2227.5x5785			150110290000	IS2062Fe410A			484.770		
				150110290000	IS2062Fe410A			1		
07	PLATE 5 5000x1947.5			150110290000	IS2062Fe410A			382.190		
				150110290000	IS2062Fe410A			1		
06	PLATE 5 5000x1805			150110290000	IS2062Fe410A			354.230		
				150110290000	IS2062Fe410A			1		
05	PLATE 5 5000x1982.5			150110290000	IS2062Fe410A			389.060		
				150110290000	IS2062Fe410A			1		
04	PLATE 5 5000x2087.5			150110290000	IS2062Fe410A			409.670		
				150110290000	IS2062Fe410A			1		
03	PLATE 5 5000x2490			150110290000	IS2062Fe410A			488.660		
				150110290000	IS2062Fe410A			1		
02	PLATE 5 5000x2417.5			150110290000	IS2062Fe410A			474.430		
				150110290000	IS2062Fe410A			1		
01	PLATE 5 5000x1895			150110290000	IS2062Fe410A			371.890		
				150110290000	IS2062Fe410A			1		

DESPATCH TABLE

SL. NO.	DESCRIPTION	DU NO.	NO. OFF	ITEM NO.	NO. OFF
1	ELBOW WALL	082	1	01 17 28	
				1 2 2	
2	ELBOW WALL	083	1	02 19 28 31	
				1 2 3 1	
3	ELBOW WALL	084	1	03 20 28 31	
				1 2 3 1	
4	ELBOW WALL	085	1	04 21 22 28	
				1 2 1 2	
5	ELBOW WALL	086	1	05 23 28 31	
				1 2 2 1	
6	ELBOW WALL	087	1	06 24 28 31	
				1 2 2 1	
7	ELBOW WALL	088	1	07 25 28	
				1 2 2	
8	ELBOW WALL	089	1	08 29 32 30	
				1 1 1 1	
9	ELBOW WALL	090	1	09 29 32 30	
				1 1 1 1	
10	ELBOW WALL	091	1	10 30 32	
				1 2 1	
11	ELBOW WALL	092	1	11 30 32	
				1 2 1	
12	ELBOW WALL	093	1	12 30	
				1 2	
13	ELBOW WALL	094	1	13 30	
				1 2	
14	GUIDE VANE	095	2	14 26	
				1 2	
15	GUIDE VANE	096	2	15 27	
				1 2	
16	DIVIDER PLATE	097	1	16 18	
				1 1	

SECTION-AA



CAUTION: The information on this drawing is the property of BHARAT HEAVY ELECTRICALS LTD. It is to be used directly or indirectly in any way detrimental to the interest of the company.

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT  
Bharat Heavy Electricals Ltd  
UNIT: HIGH PRESSURE BOILER PLANT  
TIRUCHIRAPALLI - 620014

DRN NAME EOL/KUMAR  
CHD K.P.  
APPD P.K.ADHI

DATE 17-12-09  
DATE 17-12-09  
DATE 17-12-09

DEPT 355-053  
DU ALL DIMENSIONS ARE IN MM  
CODE 124

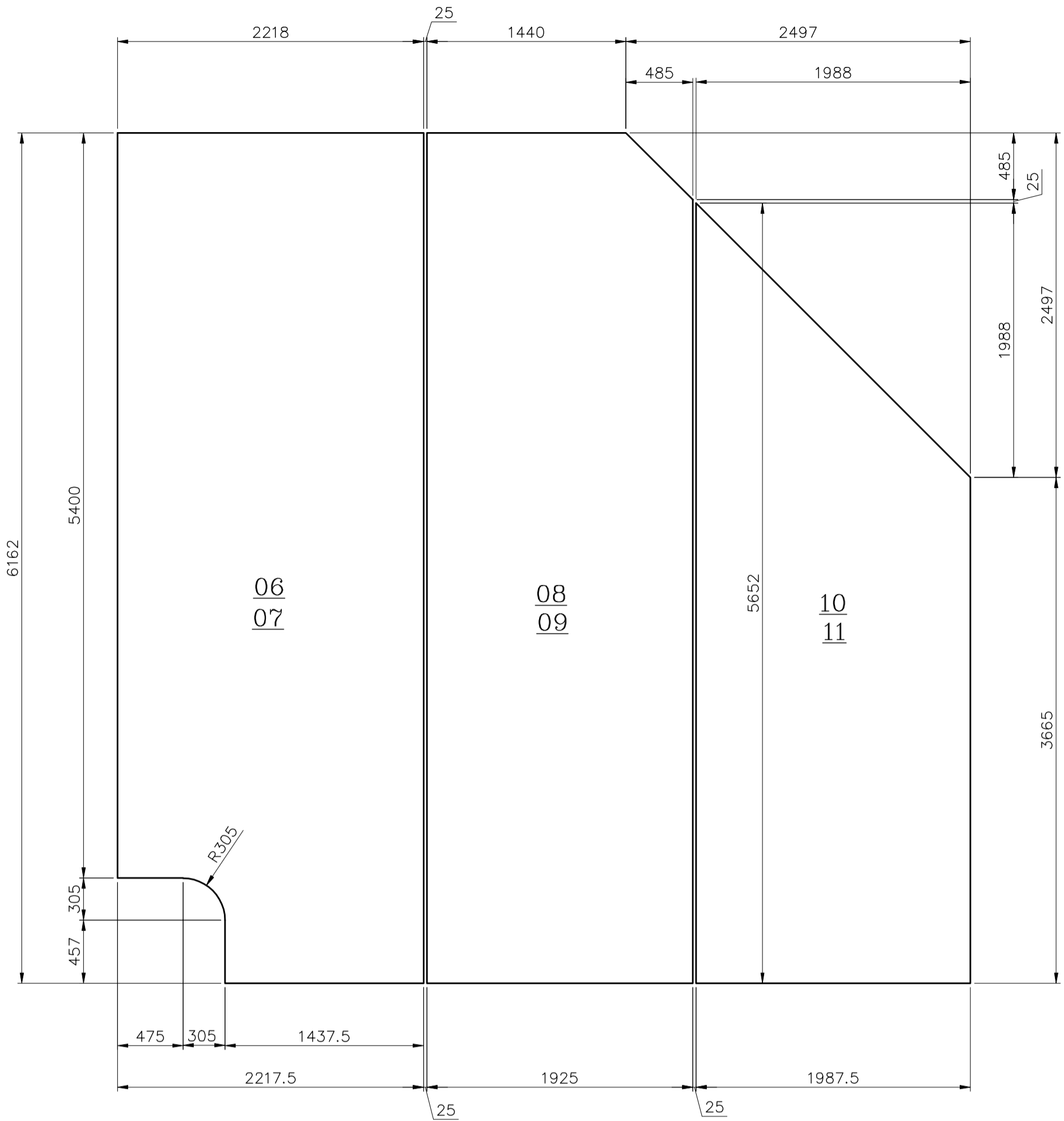
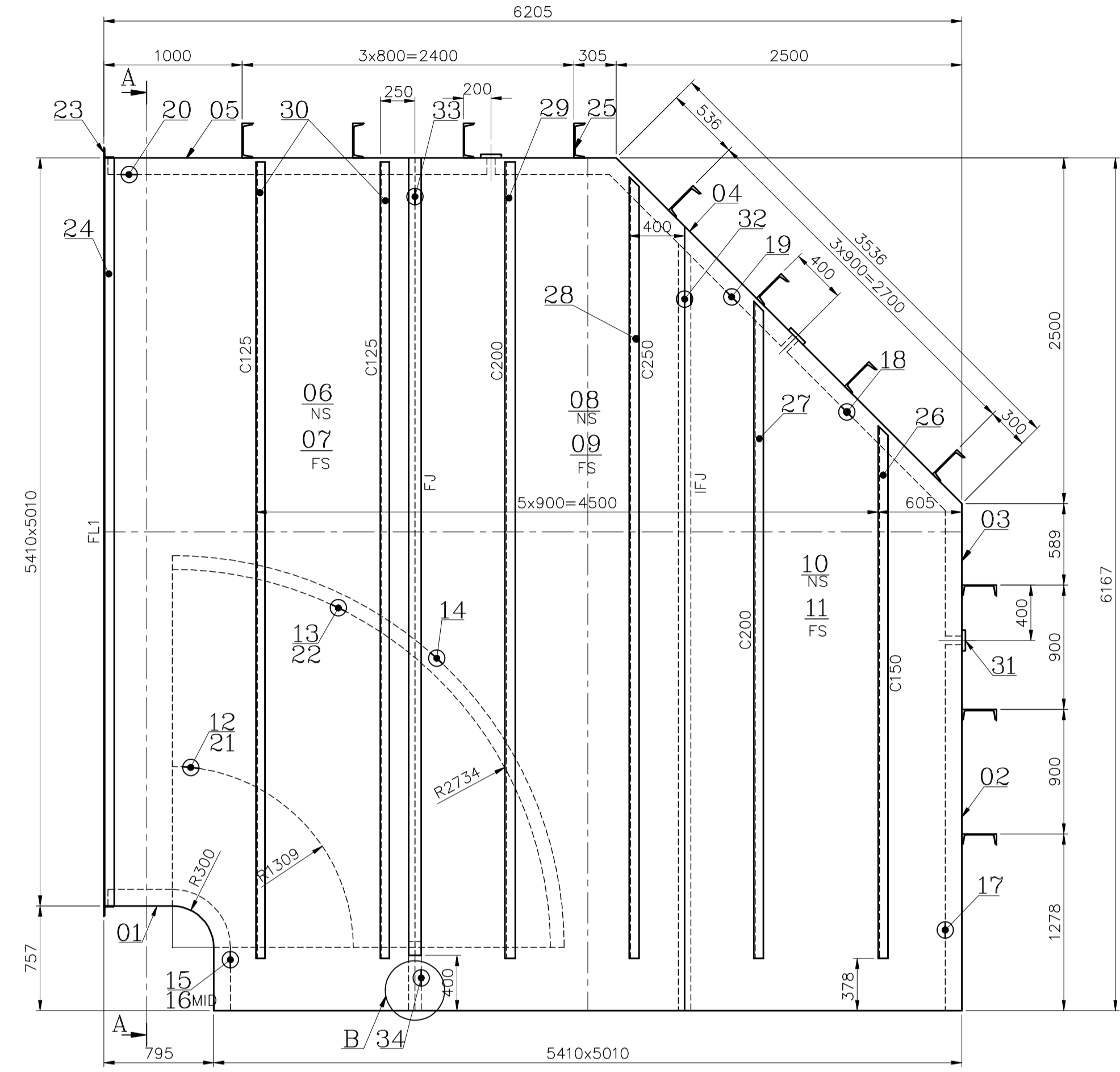
PROJECTION SCALE N.T.S  
WEIGHT (Kg) 13145.610

REF TO ASSY / OLD DWG

TITLE ELBOW  
DRAWING NO: 1-48-202-40986  
REV

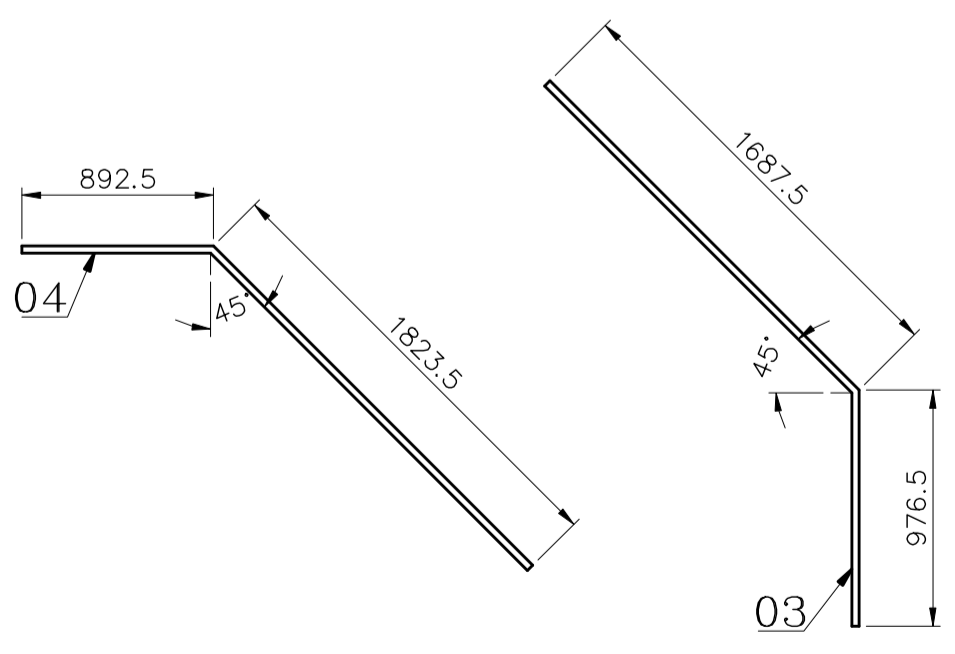
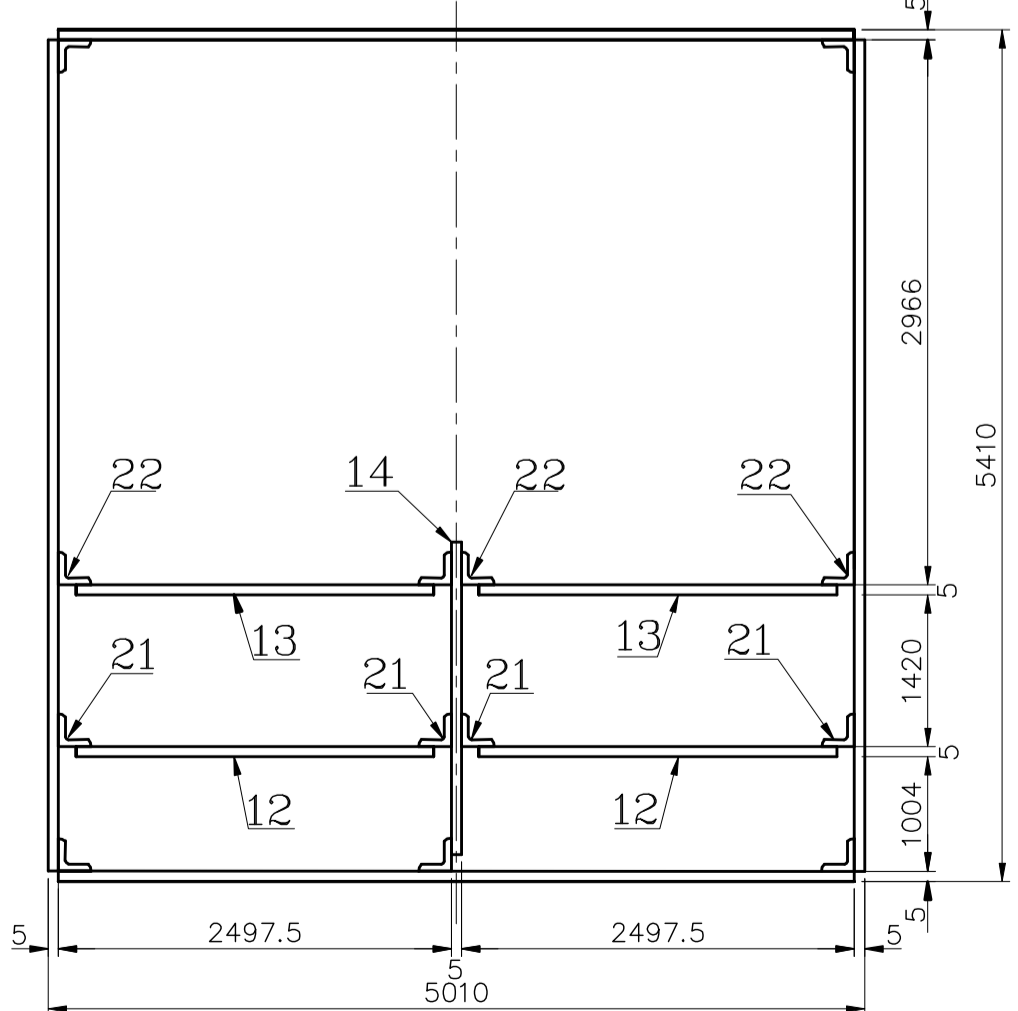
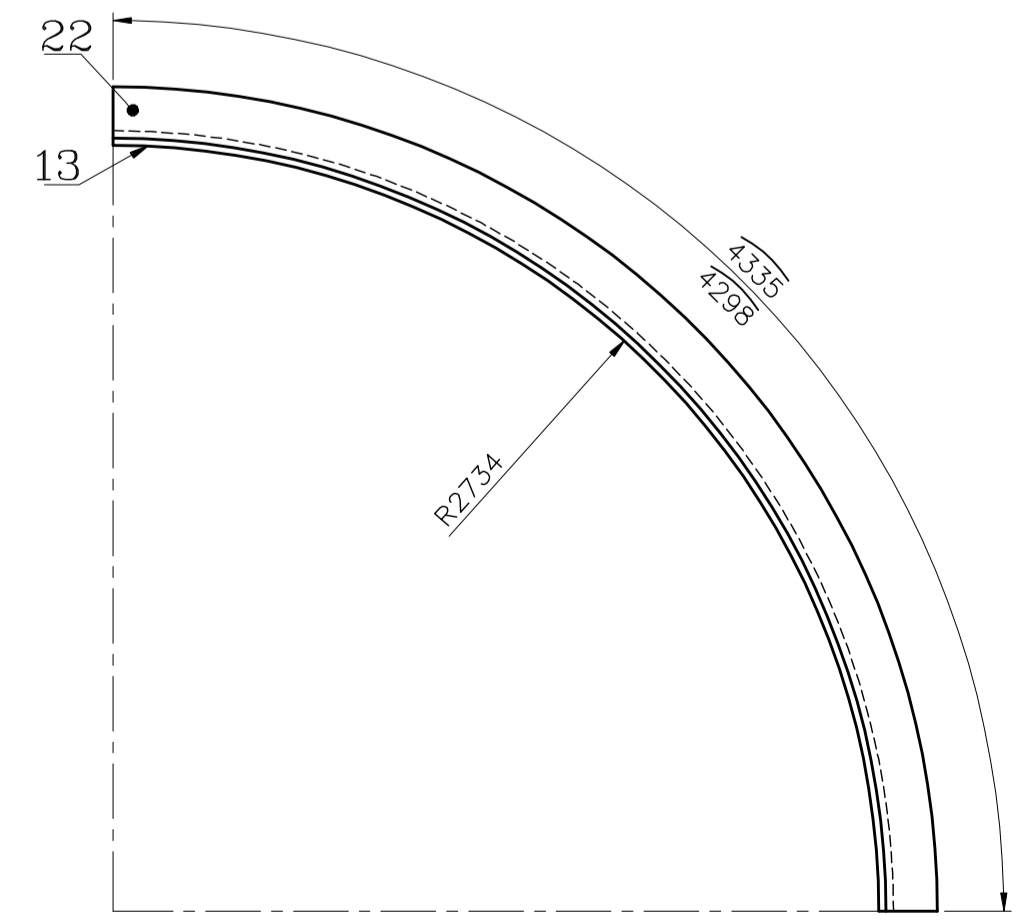
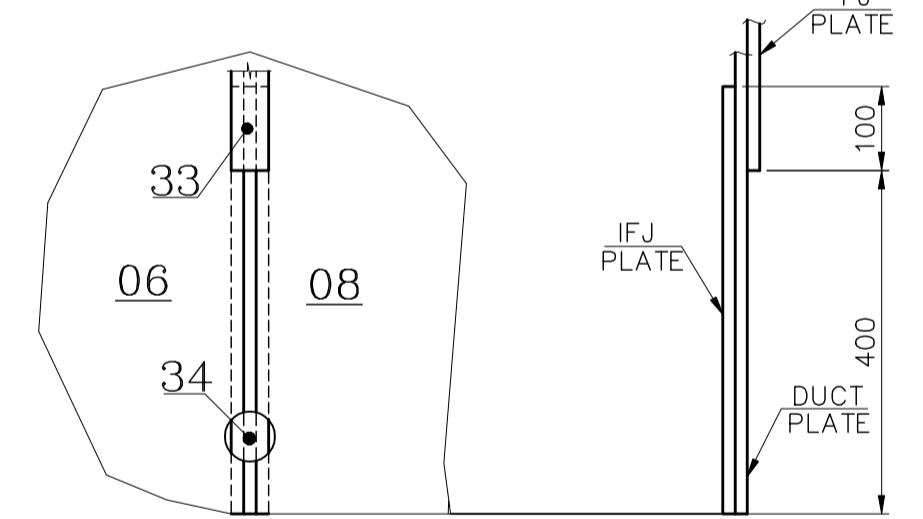
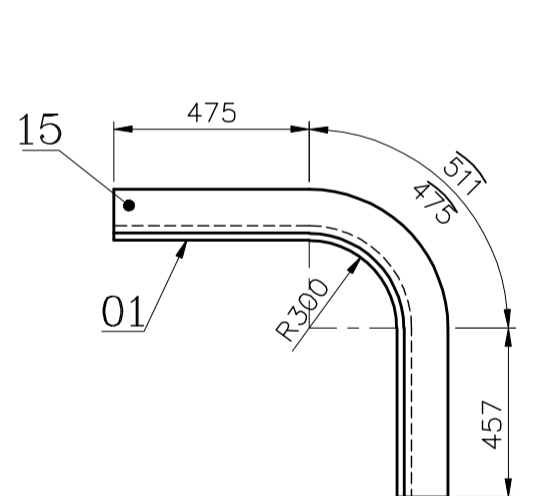
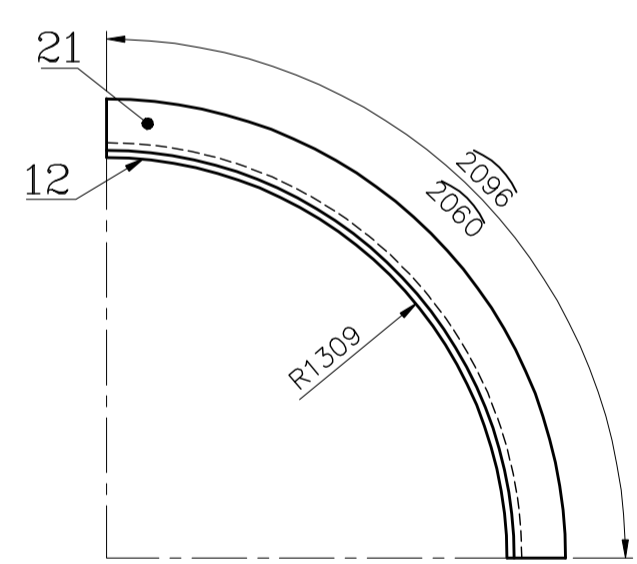
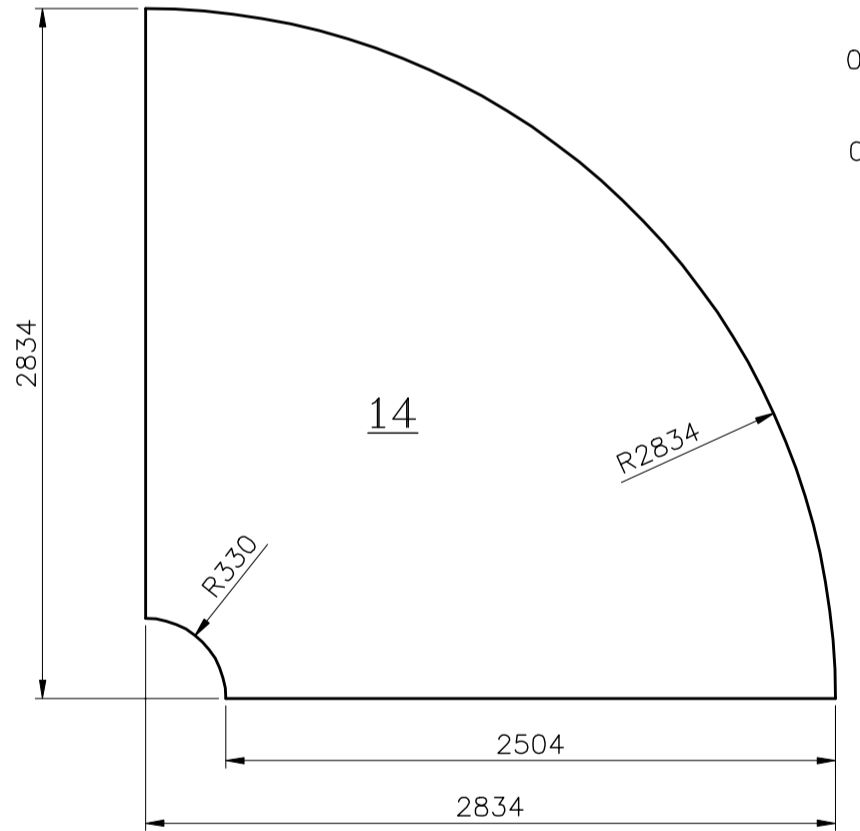
1-48-202-40987

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER PLANT STD. NO TP 023 0299



NOTE:

- 01. FOR GENERAL NOTES REFER PAGE NO. 41 (REF:41) OF DUCT CONSTRUCTION MANUAL. REF122 FOR CONSTRUCTION DETAIL.
- 02. NTPC, CORNER SS TYPE, FIELD ASSEMBLED DUCT.



FLANGE DETAILS

FLANGE NO.	REF	D	X	A	B	W	S	E	F	N
FL1	REF109	5010	528	2	1828	5410	728	2	1828	28

DESPATCH TABLE

SL. NO.	DESCRIPTION	DU NO.	NO. OFF	ITEM NO.		
				NO.	NO.	NO.
1	ELBOW WALL	100	1	01	15	23
2	ELBOW WALL	101	1	02	17	25
3	ELBOW WALL	102	1	03	18	25
4	ELBOW WALL	103	1	04	19	25
5	ELBOW WALL	104	1	05	20	23
6	ELBOW WALL	105	1	06	24	30
7	ELBOW WALL	106	1	07	24	30
8	ELBOW WALL	107	1	08	28	29
9	ELBOW WALL	108	1	09	28	29
10	ELBOW WALL	109	1	10	26	27
11	ELBOW WALL	110	1	11	26	27
12	GUIDE VANE	111	2	12	21	
13	GUIDE VANE	112	2	13	22	
14	DIVIDER PLATE	113	1	14	16	

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO. VAR NO.	MATERIAL CODE MATERIAL SPECN	UNIT	UNIT WEIGHT	QUANTITY	OS	ZONE
	34	PLATE 5 125x500				150110290000 IS2062Fe410A		2.450	2		
	33	PLATE 5 125x5762				150110290000 IS2062Fe410A		28.270	2		
	32	PLATE 5 125x5659				150110290000 IS2062Fe410A		27.760	2		
	31	PLATE 5 125x5000				150110290000 IS2062Fe410A		24.530	3		
	30	ISMC 125 5759				150100020000 IS2062Fe410A		75.440	4		
	29	ISMC 200 5759				150100380000 IS2062Fe410A		128.420	2		
	28	ISMC 250 5664				150100340000 IS2062Fe410A		193.700	2		
	27	ISMC 200 4764				150100380000 IS2062Fe410A		106.230	2		
	26	ISMC 150 3864				150100350000 IS2062Fe410A		64.910	2		
	25	ISMC 250 4950				150100340000 IS2062Fe410A		169.290	11		
	24	ISA 75X75X6 5410				150130050000 IS2062Fe410A		36.780	2		
	23	ISA 75X75X6 5160				150130050000 IS2062Fe410A		35.080	2		
	22	ISA 75X75X6 4335				150130050000 IS2062Fe410A		29.470	4		
	21	ISA 75X75X6 2096				150130050000 IS2062Fe410A		14.250	4		
	20	ISA 75X75X6 2778.5				150130050000 IS2062Fe410A		18.890	2		
	19	ISA 75X75X6 2738				150130050000 IS2062Fe410A		18.610	2		
	18	ISA 75X75X6 2686				150130050000 IS2062Fe410A		18.260	2		
	17	ISA 75X75X6 2676.5				150130050000 IS2062Fe410A		18.200	2		
	16	ISA 75X75X6 511				150130050000 IS2062Fe410A		3.470	1		
	15	ISA 75X75X6 1443				150130050000 IS2062Fe410A		9.810	2		
	14	PLATE 5 2834X2834				150110290000 IS2062Fe410A		244.210	1		
	13	PLATE 5 2447.5x4298				150110290000 IS2062Fe410A		412.880	2		
	12	PLATE 5 2447.5x2060				150110290000 IS2062Fe410A		197.890	2		
	11	PLATE 5 1987.5x5652				150110290000 IS2062Fe410A		363.410	1		
	10	PLATE 5 1987.5x5652				150110290000 IS2062Fe410A		363.410	1		
	09	PLATE 5 6162x1925				150110290000 IS2062Fe410A		460.950	1		
	08	PLATE 5 6162x1925				150110290000 IS2062Fe410A		460.950	1		
	07	PLATE 5 6162x2217.5				150110290000 IS2062Fe410A		513.740	1		
	06	PLATE 5 6162x2217.5				150110290000 IS2062Fe410A		513.740	1		
	05	PLATE 5 5000x2767.5				150110290000 IS2062Fe410A		543.120	1		
	04	PLATE 5 5000x2716				150110290000 IS2062Fe410A		533.010	1		
	03	PLATE 5 5000x2664				150110290000 IS2062Fe410A		522.810	1		
	02	PLATE 5 5000x2665.5				150110290000 IS2062Fe410A		523.100	1		
	01	PLATE 5 5000x1407				150110290000 IS2062Fe410A		276.120	1		

CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be divulged to the interest of any way detrimental to the interest of the company.

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

Bharat Heavy Electricals Ltd  
UNIT: HIGH PRESSURE BOILER PLANT  
TIRUCHIRAPALLI - 620014

DRN: EOL/KUMAR  
CHD: K.P.  
APPD: P.K.ADHI

SIGNATURE: [Signature]  
DATE: 17-12-09

DEPT: DU  
CODE: 124

PROJECTION: [Symbol]  
SCALE: N.T.S.

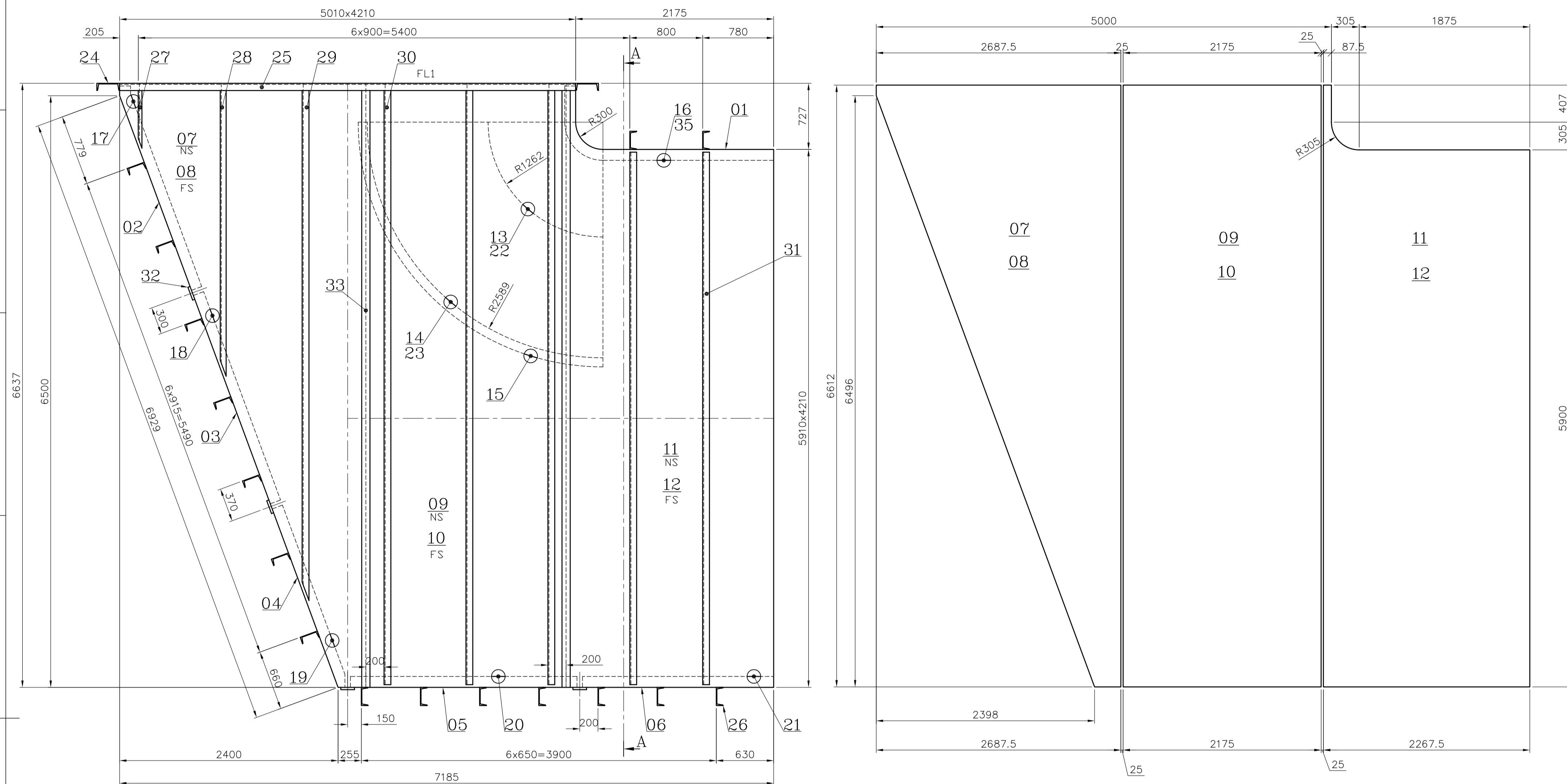
WEIGHT (Kg): 10370.740

REF TO ASSY / OLD DWG

DRAWING NO: 1-48-202-40987  
REV: 01







ITEM NO.	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	UNIT	UNIT WEIGHT	QTY	ZONE
35	ISA 75X75X6 511			150130050000	IS2062Fe410A		3.470	1	
34	TUBE 42.9X3.20 3600			150380610000	IS2062Fe410A		11.160	4	
33	PLATE 5 125x6552			150110290000	IS2062Fe410A		32.140	4	
32	PLATE 5 125x4200			150110290000	IS2062Fe410A		20.600	4	
31	ISMC 250 5850			150100340000	IS2062Fe410A		200.070	4	
30	ISMC 250 6600			150100340000	IS2062Fe410A		225.720	6	
29	ISMC 250 5735			150100340000	IS2062Fe410A		196.130	2	
28	ISMC 125 3270			150100020000	IS2062Fe410A		42.830	2	
27	ISMC 75 765			150100360000	IS2062Fe410A		5.460	2	
26	ISMC 200 4150			150100380000	IS2062Fe410A		92.540	16	
25	ISMC 250 5010			150100340000	IS2062Fe410A		171.340	2	
24	ISMC 200 4710			150100380000	IS2062Fe410A		105.030	2	
23	ISA 75X75X6 4107			150130050000	IS2062Fe410A		27.920	4	
22	ISA 75X75X6 2023			150130050000	IS2062Fe410A		13.750	4	
21	ISA 75X75X6 2128.5			150130050000	IS2062Fe410A		14.470	2	
20	ISA 75X75X6 2547			150130050000	IS2062Fe410A		17.320	2	
19	ISA 75X75X6 2222			150130050000	IS2062Fe410A		15.110	2	
18	ISA 75X75X6 2497			150130050000	IS2062Fe410A		16.980	2	
17	ISA 75X75X6 2424.5			150130050000	IS2062Fe410A		16.480	2	
16	ISA 75X75X6 2793			150130050000	IS2062Fe410A		18.990	2	
15	PLATE 5 2689x2689			150110290000	IS2062Fe410A		219.520	1	
14	PLATE 5 2047.5x4071			150110290000	IS2062Fe410A		327.160	2	
13	PLATE 5 2047.5x1986			150110290000	IS2062Fe410A		159.600	2	
12	PLATE 5 2267.5x6612			150110290000	IS2062Fe410A		528.300	1	
11	PLATE 5 2267.5x6612			150110290000	IS2062Fe410A		528.300	1	
10	PLATE 5 2175x6612			150110290000	IS2062Fe410A		564.450	1	
09	PLATE 5 2175x6612			150110290000	IS2062Fe410A		564.450	1	
08	PLATE 5 2687.5x6612			150110290000	IS2062Fe410A		391.670	1	
07	PLATE 5 2687.5x6612			150110290000	IS2062Fe410A		391.670	1	
06	PLATE 5 4200x2117.5			150110290000	IS2062Fe410A		349.070	1	
05	PLATE 5 4200x2525			150110290000	IS2062Fe410A		416.240	1	
04	PLATE 5 4200x2200			150110290000	IS2062Fe410A		362.670	1	
03	PLATE 5 4200x2475			150110290000	IS2062Fe410A		408.000	1	
02	PLATE 5 4200x2413.5			150110290000	IS2062Fe410A		397.860	1	
01	PLATE 5 4200x2757			150110290000	IS2062Fe410A		454.490	1	

DESPATCH TABLE

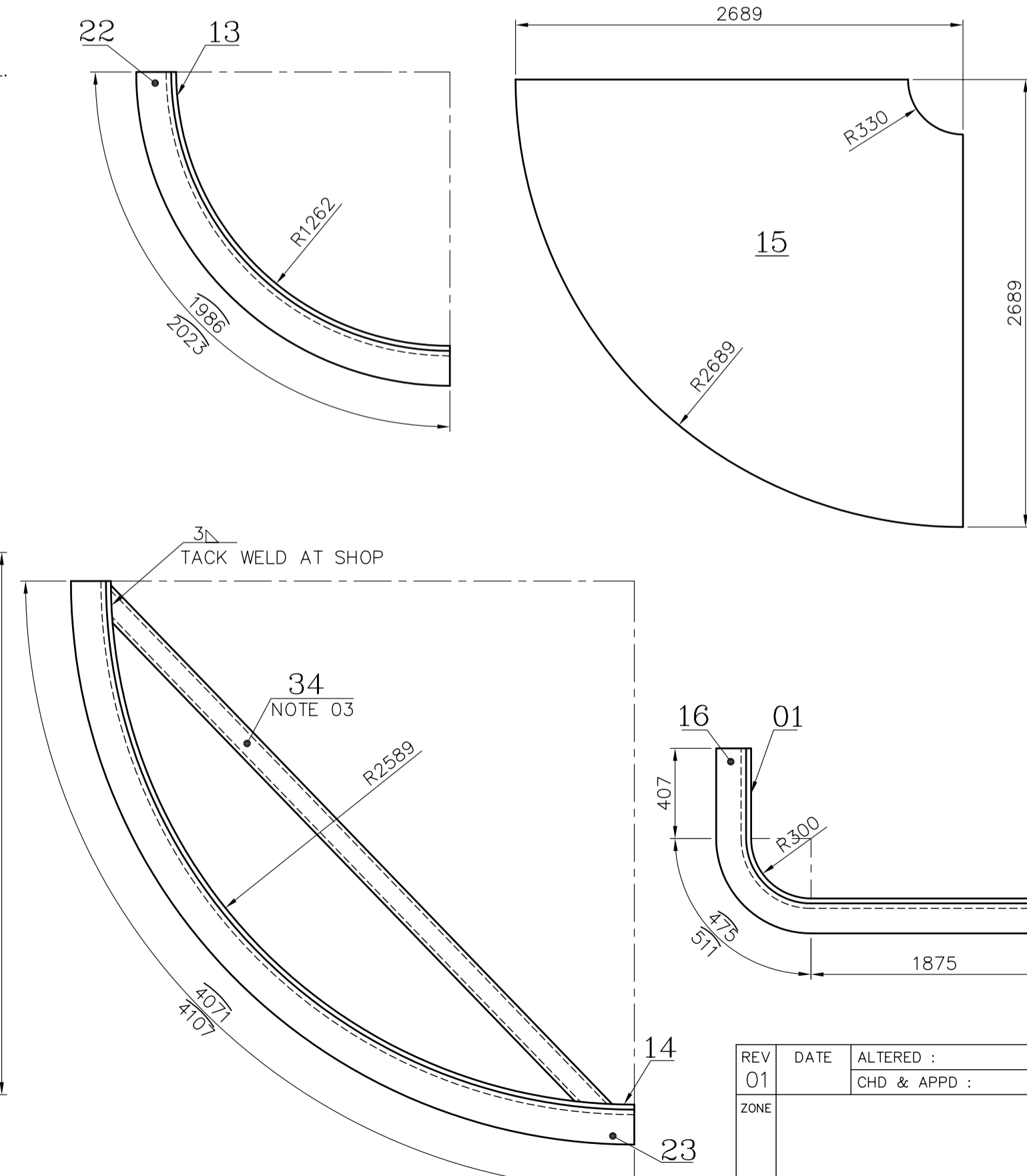
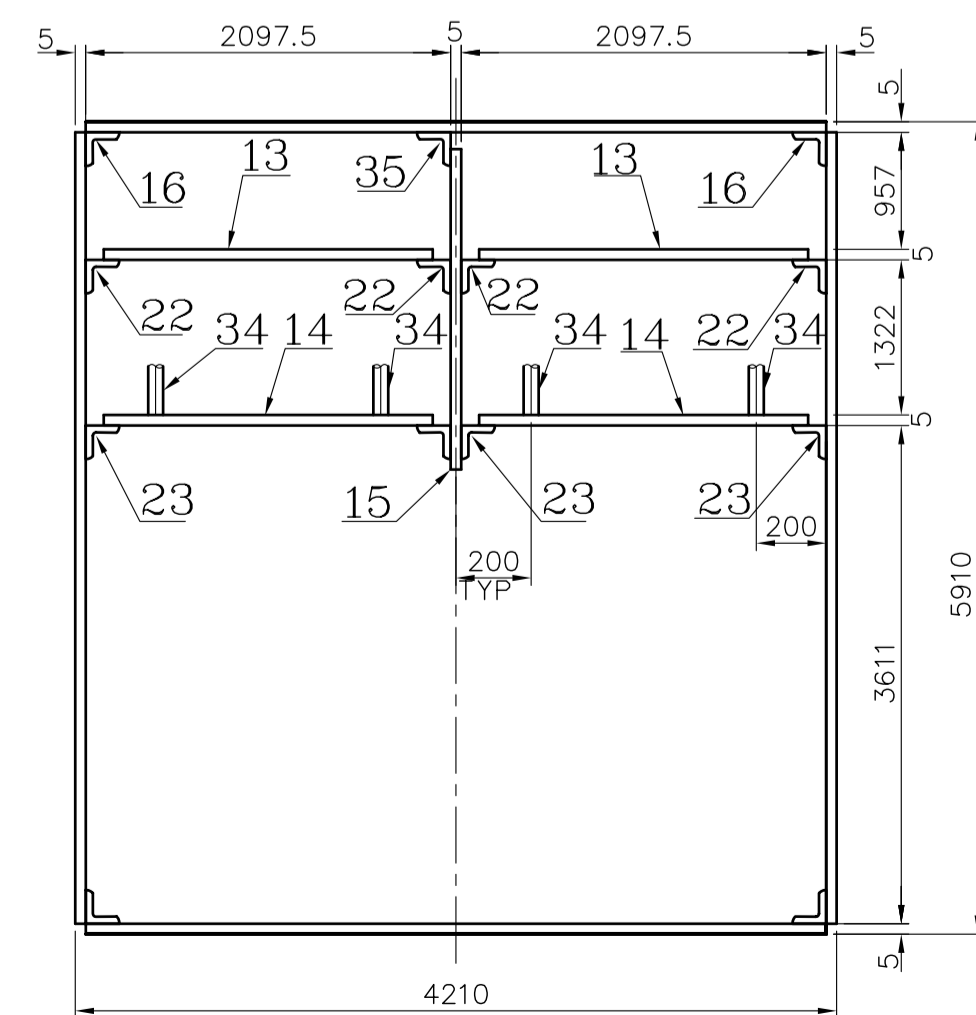
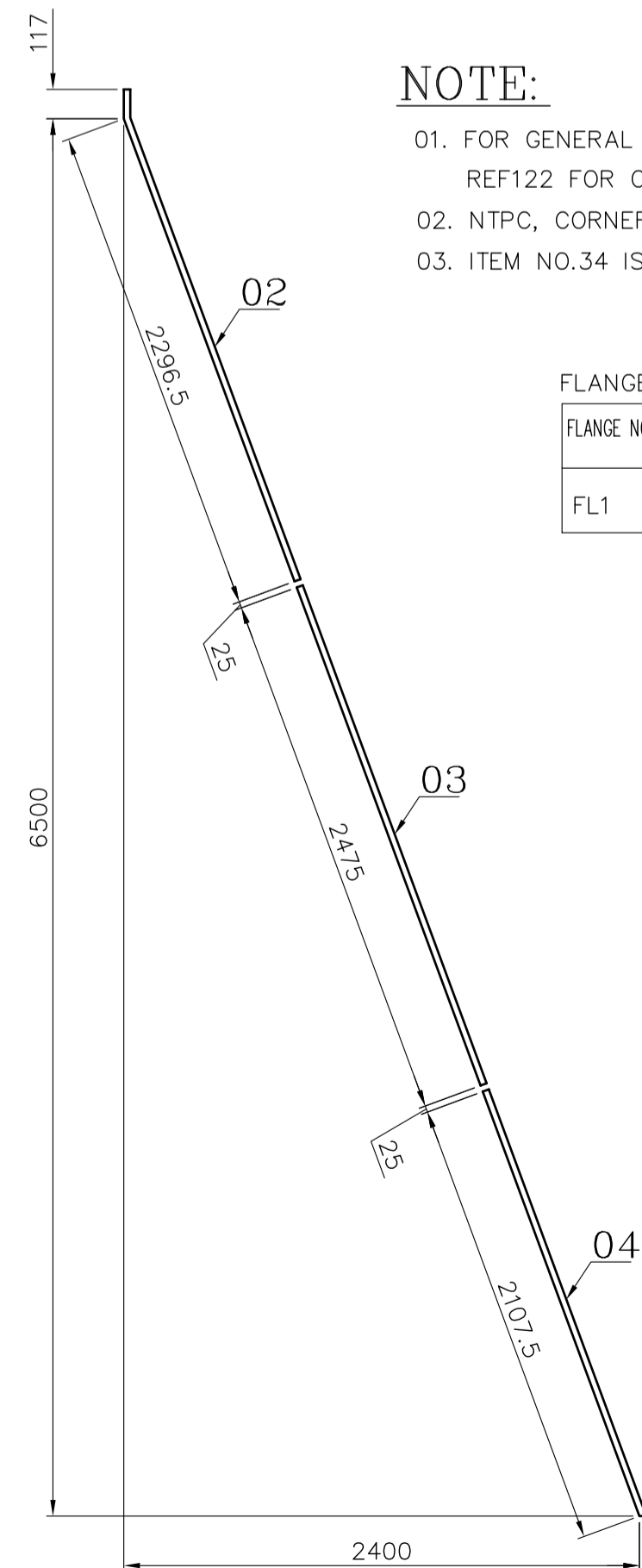
SL. NO.	DESCRIPTION	DU NO.	NO. OFF	ITEM NO. NO. OFF
1	ELBOW WALL	164	1	01 16 24 26
2	ELBOW WALL	165	1	02 17 24 26
3	ELBOW WALL	166	1	03 18 26 32
4	ELBOW WALL	167	1	04 19 26 32
5	ELBOW WALL	168	1	05 20 26 32
6	ELBOW WALL	169	1	06 21 26 32
7	ELBOW WALL	170	1	07 27 28 29
8	ELBOW WALL	171	1	08 27 28 29
9	ELBOW WALL	172	1	09 30 33
10	ELBOW WALL	173	1	10 30 33
11	ELBOW WALL	174	1	11 31 33
12	ELBOW WALL	175	1	12 31 33
13	GUIDE VANE	176	2	13 22
14	GUIDE VANE	177	2	14 23 34
15	DIVIDER PLATE	178	1	15 35
16	COLLECTOR FLANGE	179	2	25

NOTE:

- FOR GENERAL NOTES REFER PAGE NO. 41 (REF:41) OF DUCT CONSTRUCTION MANUAL. REF122 FOR CONSTRUCTION DETAIL.
- NTPC, CORNER SS TYPE, FIELD ASSEMBLED DUCT.
- ITEM NO.34 IS FOR TRANSPORT PURPOSE ONLY. TO BE PAINTED WITH YELLOW BAND.

FLANGE DETAILS

FLANGE NO.	REF	D	X	A	B	W	S	E	F	N
FL1	REF109	4210	1042	1	914	5010	528	2	1828	24



CAUTION: The information on this drawing is the property of BHARAT Heavy Electricals Ltd. It is to be used directly or indirectly in any way detrimental to the interest of the company.

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

Bharat Heavy Electricals Ltd  
UNIT: HIGH PRESSURE BOILER PLANT  
TIRUCHIRAPALLI - 620014

DRN: EQL/KUMAR  
CHD: K.P.  
APPD: P.K.ADHI

DATE: 17-12-09  
DATE: 17-12-09  
DATE: 17-12-09

DEPT: 355-053  
DU: 124  
ALL DIMENSIONS ARE IN MM  
PROJECTION: N.T.S.  
SCALE: N.T.S.  
WEIGHT (Kg): 11851.480

REF TO ASSY / OLD DWG

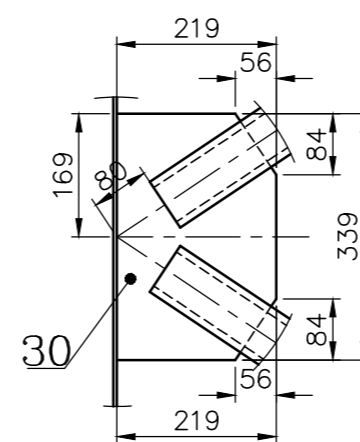
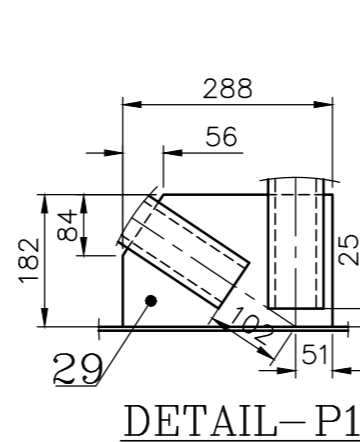
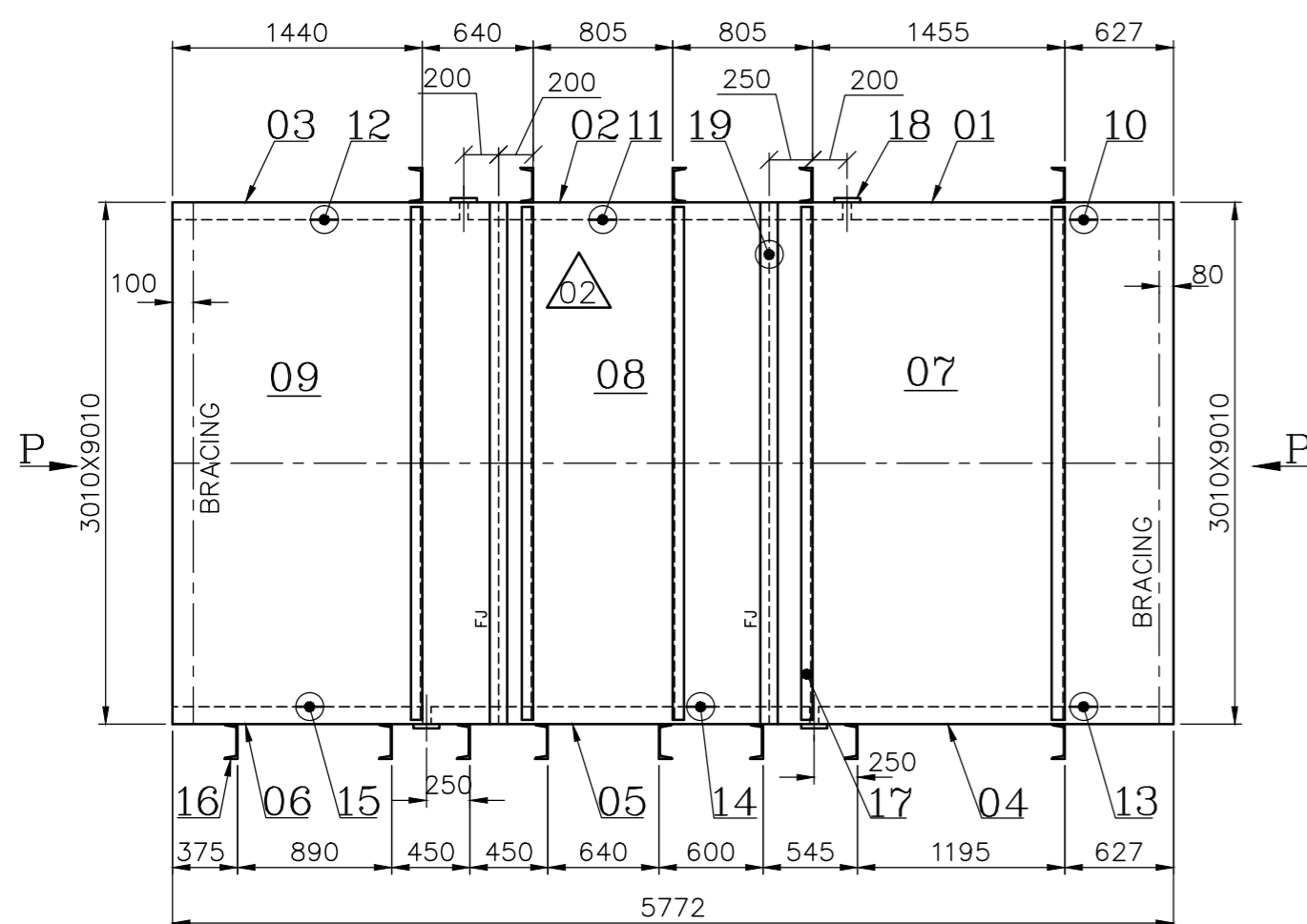
TITLE: ELBOW  
DRAWING NO.: 1-48-202-40990  
REV





2-48-202-49653  
DRAWING NO.

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER PLANT STD. NO TP 023 0299

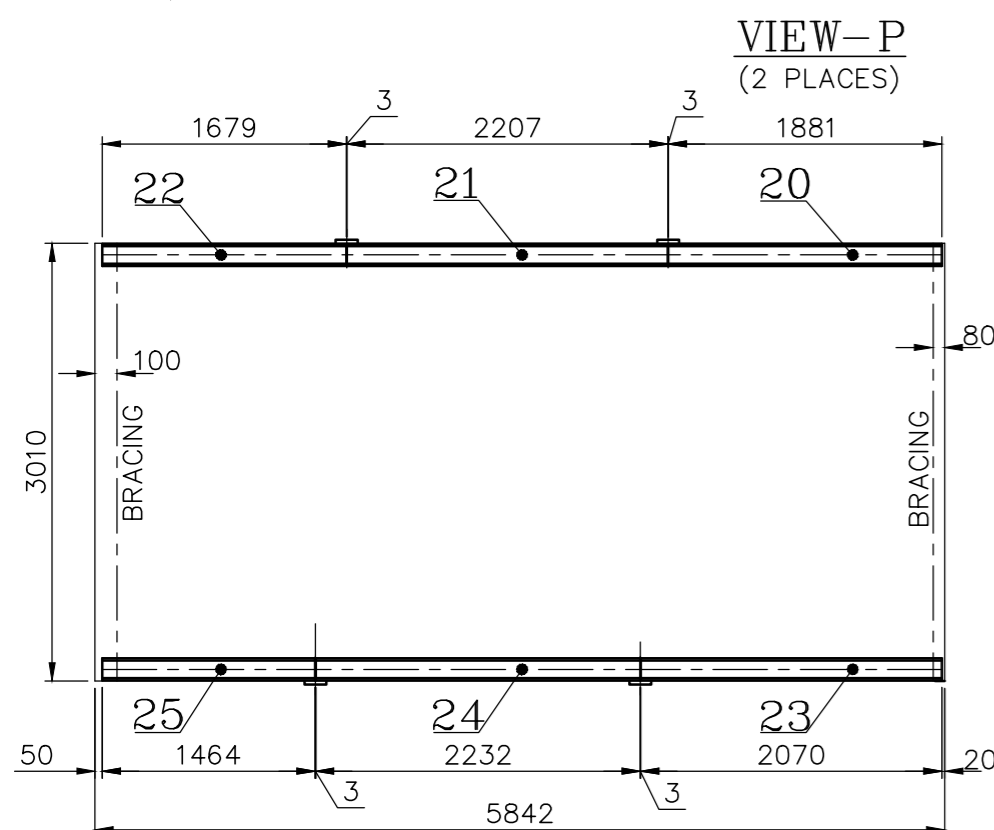
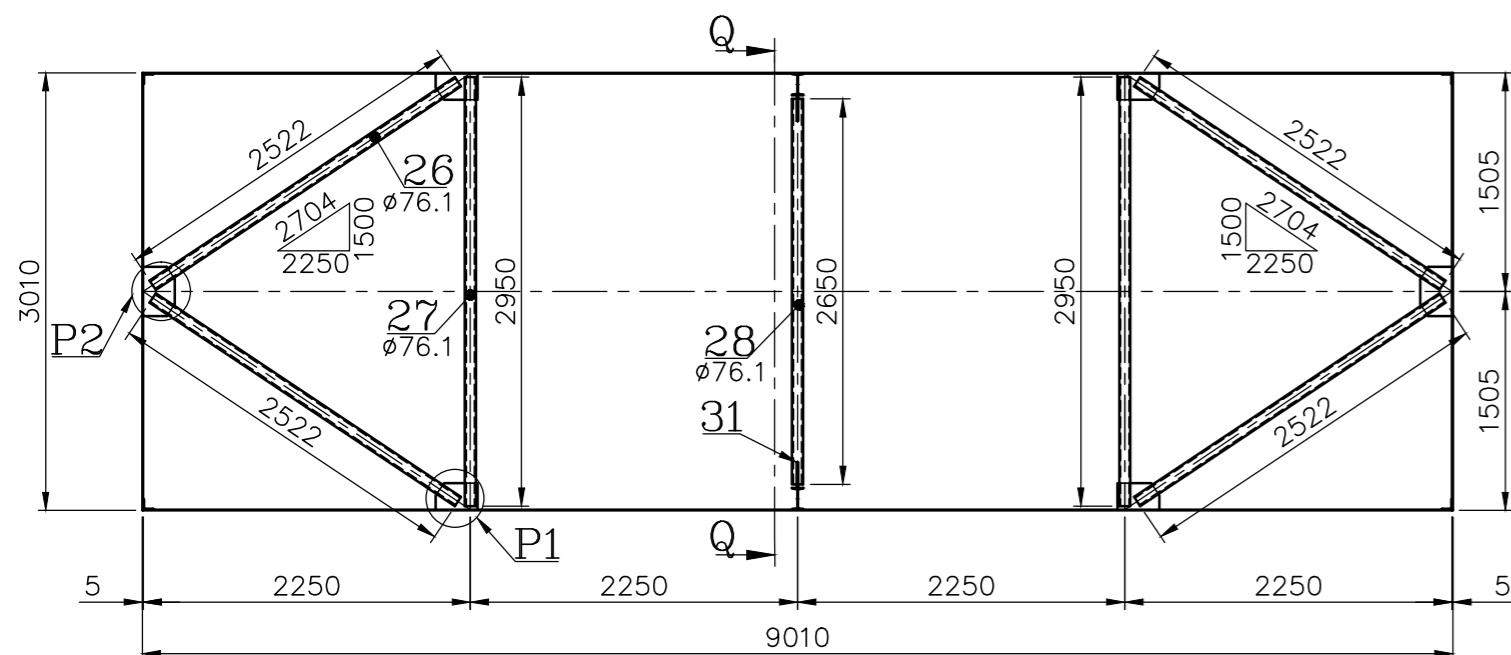


**DESPATCH TABLE**

SL. NO.	DESCRIPTION	DU NO.	NO. OFF	ITEM NO. NO.OFF										
				01	10	16	18	20	02	11	16	18	21	
1	DUCT WALL	029	1	1	1	1	1	1						
2	DUCT WALL	030	1	1	2	3	1	1						
3	DUCT WALL	031	1	1	2	1	1							
4	DUCT WALL	032	1	1	2	2	1	1						
5	DUCT WALL	033	1	1	2	4	1	1						
6	DUCT WALL	034	1	1	2	2	1							
7	DUCT WALL	035	2	1	2	1								
8	DUCT WALL	036	2	1	2	1								
9	DUCT WALL	037	2	1	1									

ITEM NOS 26 TO 31 SENT AS LOOSE DUS 038 TO 043.

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO. VAR NO	MATERIAL CODE MATERIAL SPECN	A/C/P UNIT DI	UNIT QUANTITY	UNIT WEIGHT	CS	ZONE
	24	ISMB 150 2232				150090220000 IS2062Fe410A		33.480	1		A
	23	ISMB 150 2071				150090220000 IS2062Fe410A		31.060	1		A
	22	ISMB 150 1679				150090220000 IS2062Fe410A		25.180	1		A
	21	ISMB 150 2207				150090220000 IS2062Fe410A		33.100	1		A
	20	ISMB 150 1881				150090220000 IS2062Fe410A		28.210	1		A
	19	PLATE 5 125x3000				150110290000 IS2062Fe410A		14.710	4		B
	18	PLATE 5 125x9000				150110290000 IS2062Fe410A		44.150	4		B
	17	ISMC 125 2950 3000				150100020000 IS2062Fe410A		39.300 <del>38.640</del>	10		B
	16	ISMC 200 8950				150100380000 IS2062Fe410A		199.580	13		B
	15	ISA 75X75X6 1463.5				150130050000 IS2062Fe410A		9.950	2		B
	14	ISA 75X75X6 2232				150130050000 IS2062Fe410A		15.170	2		B
	13	ISA 75X75X6 2070.5				150130050000 IS2062Fe410A		14.070	2		C
	12	ISA 75X75X6 1678.5				150130050000 IS2062Fe410A		11.410	2		C
	11	ISA 75X75X6 2207				150130050000 IS2062Fe410A		15.000	2		C
	10	ISA 75X75X6 1880.5				150130050000 IS2062Fe410A		12.780	2		C
	09	PLATE 5 1867.5x2950 3000				150110290000 IS2062Fe410A		219.900 <del>216.230</del>	2		D
	08	PLATE 5 1535x2950 3000				150110290000 IS2062Fe410A		180.740 <del>177.730</del>	2		D
	07	PLATE 5 2319.5x2950 3000				150110290000 IS2062Fe410A		273.100 <del>268.560</del>	2		D
	06	PLATE 5 1452.5x9000				150110290000 IS2062Fe410A		513.090	1		D
	05	PLATE 5 2210x9000				150110290000 IS2062Fe410A		780.680	1		D
	04	PLATE 5 2059.5x9000				150110290000 IS2062Fe410A		727.510	1		D
	03	PLATE 5 1667.5x9000				150110290000 IS2062Fe410A		589.040	1		E
	02	PLATE 5 2185x9000				150110290000 IS2062Fe410A		771.850	1		E
	01	PLATE 5 1869.5x9000				150110290000 IS2062Fe410A		660.400	1		E



31	PLATE 10 101x175			150110980000 IS2062Fe410A	1.380	4
30	PLATE 10 219x339			150110980000 IS2062Fe410A	5.450	4
29	PLATE 10 288x182			150110980000 IS2062Fe410A	3.930	8
28	PIPE 76.1x4.5 2650			151650010000 ASTM A 53 GR	21.050	2
27	PIPE 76.1x4.5 2950			151650010000 ASTM A 53 GR	23.430	4
26	PIPE 76.1x4.5 2522			151650010000 ASTM A 53 GR	21.340	8
25	ISMB 150 1464			150090220000 IS2062Fe410A	21.960	1

**NOTE:**

- FOR GENERAL NOTES REFER PAGE NO. 41 (REF:41) OF DUCT CONSTRUCTION MANUAL. REF122 FOR CONSTRUCTION DETAIL.
- NTPC, CORNER SS TYPE, FIELD ASSEMBLED DUCT

REV	DATE	ALTERED	BY	REV	DATE	ALTERED	BY
02	06.01.11	CHD & APPD	P.K.ADHI	01	29.9.10	CHD & APPD	PANDIAN
ZONE	FJ PLATE VIEW CORRECTED AS PER DRG			ZONE	ITEM NO. 07,08,09&17 LENGTH ALTERED		

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TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

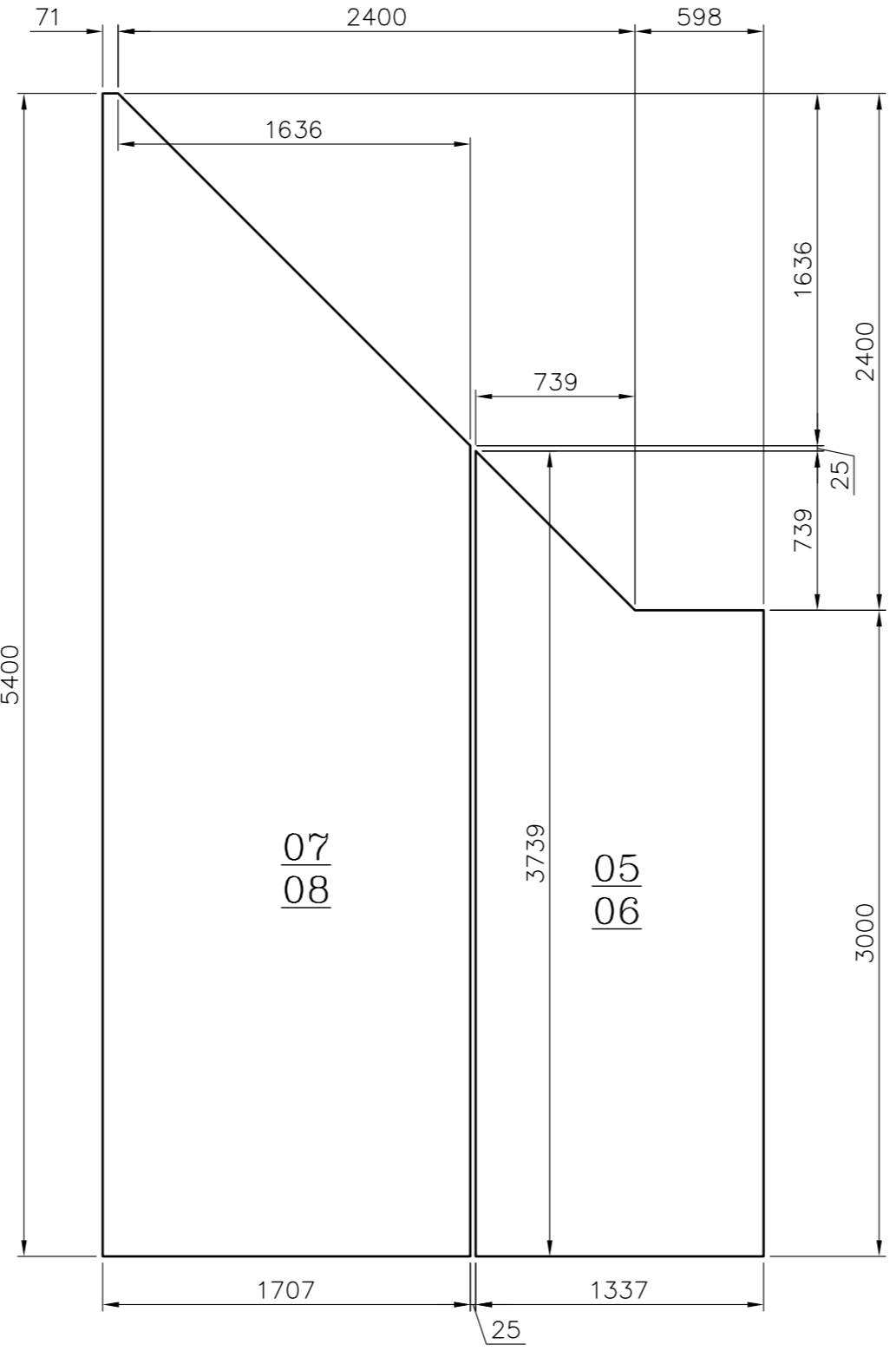
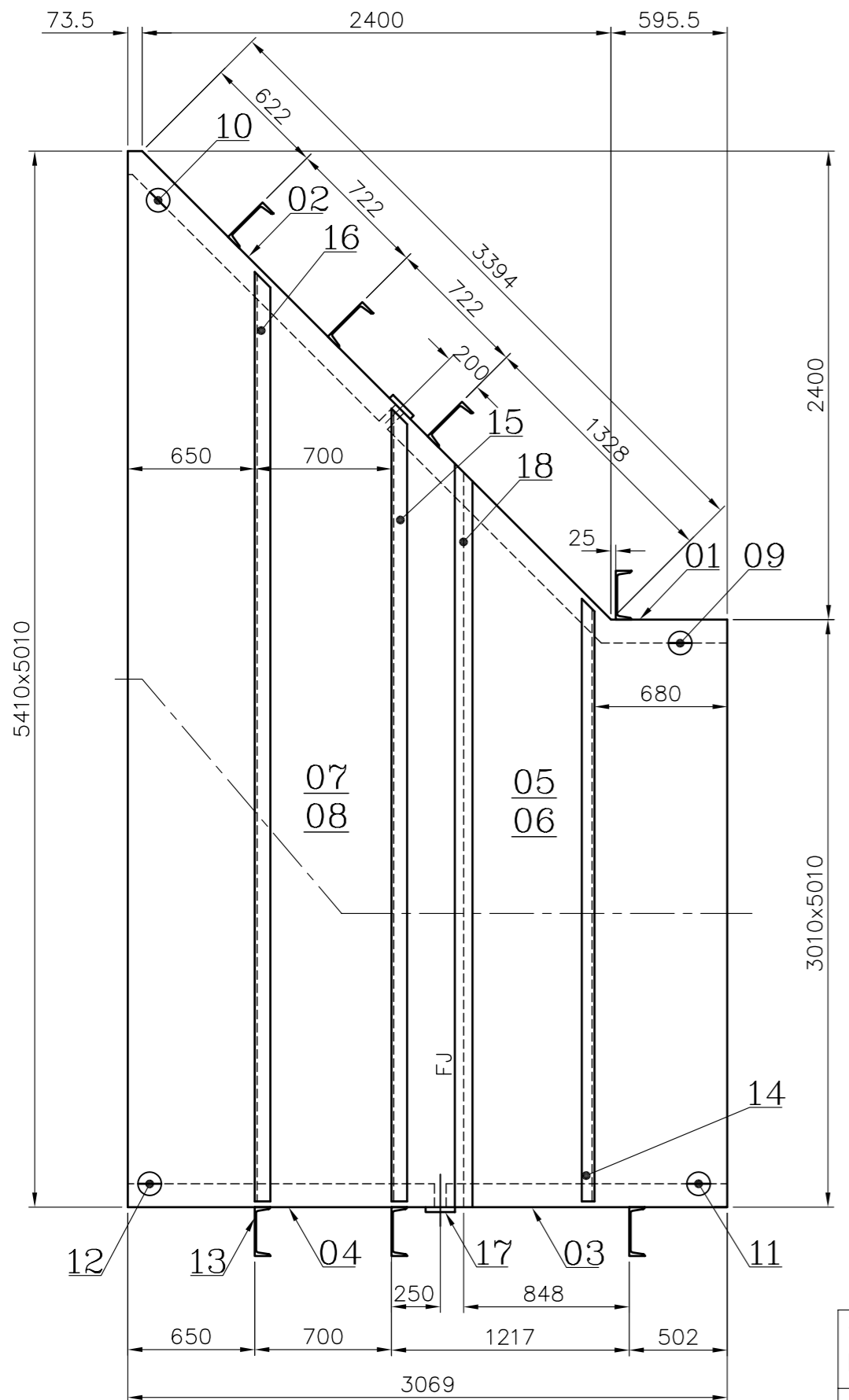
Bharat Heavy Electricals Ltd  
UNIT: HIGH PRESSURE BOILER PLANT  
TIRUCHIRAPALLI - 620014

DRN	EOL/KUMAR	SIGNATURE	DATE
CHD	K.P		17-12-09
APPD	P.K.ADHI		17-12-09

DEPT DU ALL DIMENSIONS ARE IN MM PROJECTION SCALE WEIGHT (Kg) REF TO ASSY / OLD DWG

124 N.T.S 9268.560 9280.440

TITLE DUCT DRAWING NO : 2-48-202-49653 REV 02



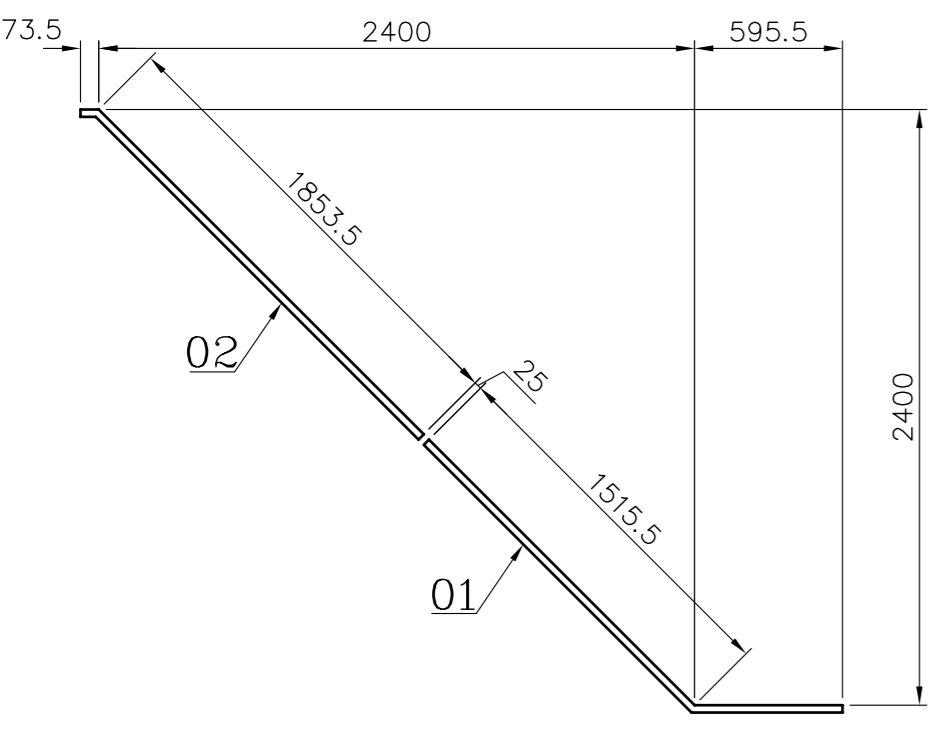
**NOTE:**

- 01. FOR GENERAL NOTES REFER PAGE NO. 41 (REF:41) OF DUCT CONSTRUCTION MANUAL. REF122 FOR CONSTRUCTION DETAIL.
- 02. NTPC, CORNER SS TYPE, FIELD ASSEMBLED DUCT

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	GS	ZONE
					VAR NO	MATERIAL SPECN	DI		QUANTITY		
	18	PLATE 5 125x3839 C.T.S.				150110290000 IS2062Fe410A			18.830 2		
	17	PLATE 5 125x5000				150110290000 IS2062Fe410A			24.530 2		
	16	ISMC 200 4773				150100380000 IS2062Fe410A			106.430 2		
	15	ISMC 150 4073				150100350000 IS2062Fe410A			68.420 2		
	14	ISMC 125 3100				150100020000 IS2062Fe410A			40.610 2		
	13	ISMC 250 4950				150100340000 IS2062Fe410A			169.290 7		
	12	ISA 75X75X6 1598.5				150130050000 IS2062Fe410A			10.870 2		
	11	ISA 75X75X6 1467.5				150130050000 IS2062Fe410A			9.970 2		
	10	ISA 75X75X6 1938				150130050000 IS2062Fe410A			13.170 2		
	09	ISA 75X75X6 2188				150130050000 IS2062Fe410A			14.870 2		
	08	PLATE 5 1707x5400				150110290000 IS2062Fe410A			309.290 1		
	07	PLATE 5 1707x5400				150110290000 IS2062Fe410A			309.290 1		
	06	PLATE 5 1337x3739				150110290000 IS2062Fe410A			168.140 1		
	05	PLATE 5 1337x3739				150110290000 IS2062Fe410A			168.140 1		
	04	PLATE 5 5000x1587.5				150110290000 IS2062Fe410A			311.540 1		
	03	PLATE 5 5000x1456.5				150110290000 IS2062Fe410A			285.830 1		
	02	PLATE 5 5000x1927				150110290000 IS2062Fe410A			378.170 1		
	01	PLATE 5 5000x2111				150110290000 IS2062Fe410A			414.280 1		

**DESPATCH TABLE**

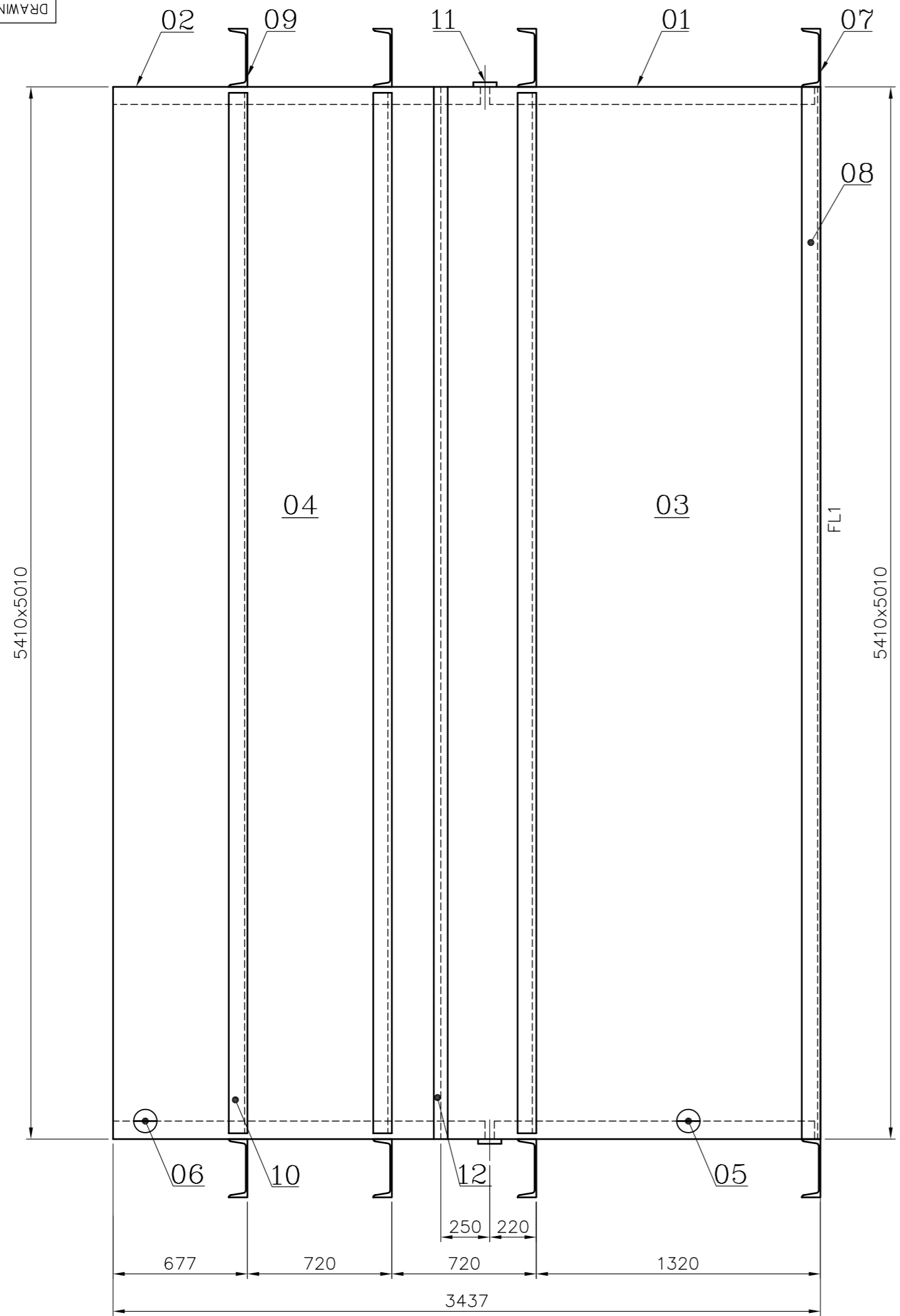
SL. NO.	DESCRIPTION	DU NO.	NO. OFF	ITEM NO. NO.OFF			
1	TRANSITION WALL	059	1	01	09	13	
				1	2	2	
2	TRANSITION WALL	060	1	02	10	13	17
				1	2	2	1
3	TRANSITION WALL	061	1	03	11	13	17
				1	2	1	1
4	TRANSITION WALL	062	1	04	12	13	
				1	2	2	
5	TRANSITION WALL	063	1	05	14	18	
				1	1	1	
6	TRANSITION WALL	064	1	06	14	18	
				1	1	1	
7	TRANSITION WALL	065	1	07	15	16	
				1	1	1	
8	TRANSITION WALL	066	1	08	15	16	
				1	1	1	



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TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT			
Bharat Heavy Electricals Ltd		DRN	NAME
UNIT: HIGH PRESSURE BOILER PLANT		CHD	EOL/KUMAR
TIRUCHIRAPALLI - 620014		APPD	P.K.ADHI
355-054		SIGNATURE	DATE
355-054			17-12-09
DEPT	DU	SCALE	WEIGHT (Kg)
CODE	124	N.T.S	4145.110
TITLE		REF TO ASSY / OLD DWG	
TRANSITION		DRAWING NO :	
		2-48-202-49654	
		REV	

REV	DATE	ALTERED :
01		CHD & APPD :
ZONE		



**NOTE:**

- 01. FOR GENERAL NOTES REFER PAGE NO. 41 (REF:41) OF DUCT CONSTRUCTION MANUAL. REF122 FOR CONSTRUCTION DETAIL.
- 02. NTPC, CORNER SS TYPE, FIELD ASSEMBLED DUCT

**FLANGE DETAILS**

FLANGE NO.	REF	D	X	A	B	W	S	E	F	N
FL1	REF109	5010	528	2	1828	5410	728	2	1828	28

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	GS	ZONE
					VAR NO	MATERIAL SPECN	DI		QUANTITY		
	12	PLATE 5 125x5400				150110290000 IS2062Fe410A			26.490 2		
	11	PLATE 5 125x5000				150110290000 IS2062Fe410A			24.530 2		
	10	ISMC 250 5350				150100340000 IS2062Fe410A			182.970 6		
	09	ISMC 250 4950				150100340000 IS2062Fe410A			169.290 6		
	08	ISMC 250 5410				150100340000 IS2062Fe410A			185.020 2		
	07	ISMC 250 5510				150100340000 IS2062Fe410A			188.440 2		
	06	ISA 75X75X6 1895.5				150130050000 IS2062Fe410A			12.880 4		
	05	ISA 75X75X6 1518.5				150130050000 IS2062Fe410A			10.320 4		
	04	PLATE 5 5400x1634.5				150110290000 IS2062Fe410A			346.430 2		
	03	PLATE 5 5400x1757.5				150110290000 IS2062Fe410A			372.500 2		
	02	PLATE 5 5000x1884.5				150110290000 IS2062Fe410A			369.830 2		
	01	PLATE 5 5000x1507.5				150110290000 IS2062Fe410A			295.840 2		

**DESPATCH TABLE**

SL. NO.	DESCRIPTION	DU NO.	NO. OFF	ITEM NO. NO.OFF				
				01	05	07	09	11
1	DUCT WALL	148	2	01	05	07	09	11
				1	2	1	1	1
2	DUCT WALL	149	2	02	06	09		
				1	2	2		
3	DUCT WALL	150	2	03	08	10		
				1	1	1		
4	DUCT WALL	151	2	04	10	12		
				1	2	1		

REV	DATE	ALTERED :
01		CHD & APPD :

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TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

**Bharat Heavy Electricals Ltd**  
UNIT: HIGH PRESSURE BOILER PLANT  
TIRUCHIRAPALLI - 620014

DRN	NAME EOL./KUMAR	SIGNATURE	DATE 17-12-09
CHD	K.PANDIYAN		17-12-09
APPD	P.K.ADHI		17-12-09

DEPT DU ALL DIMENSIONS ARE IN MM PROJECTION SCALE WEIGHT (Kg) REF TO ASSY / OLD DWG

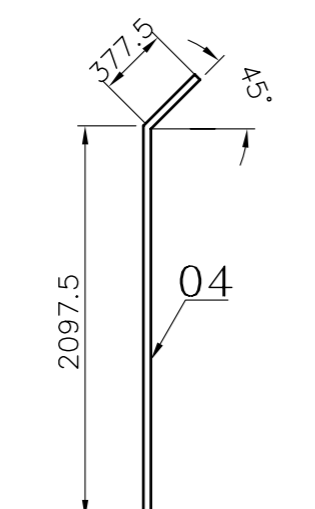
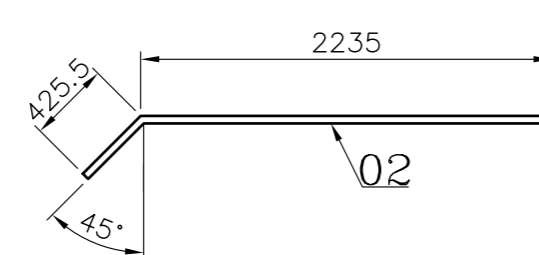
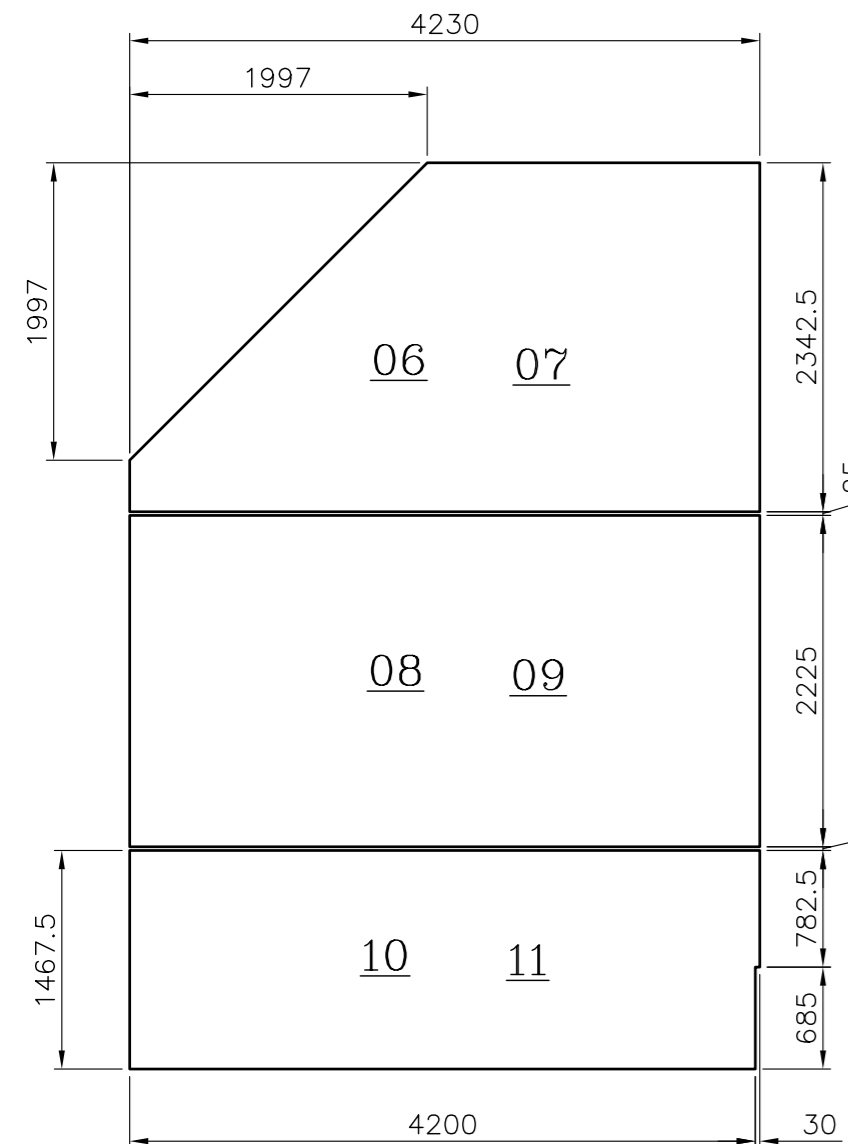
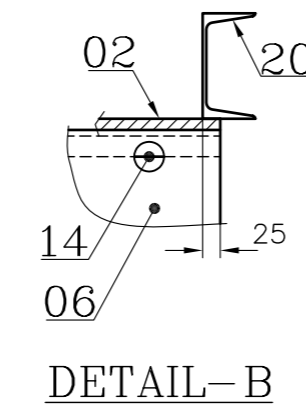
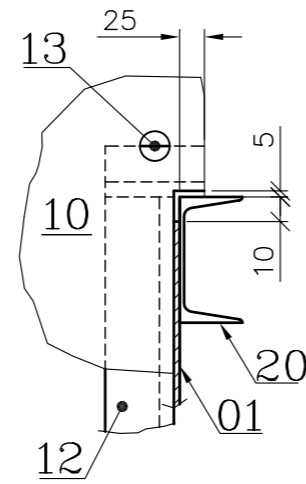
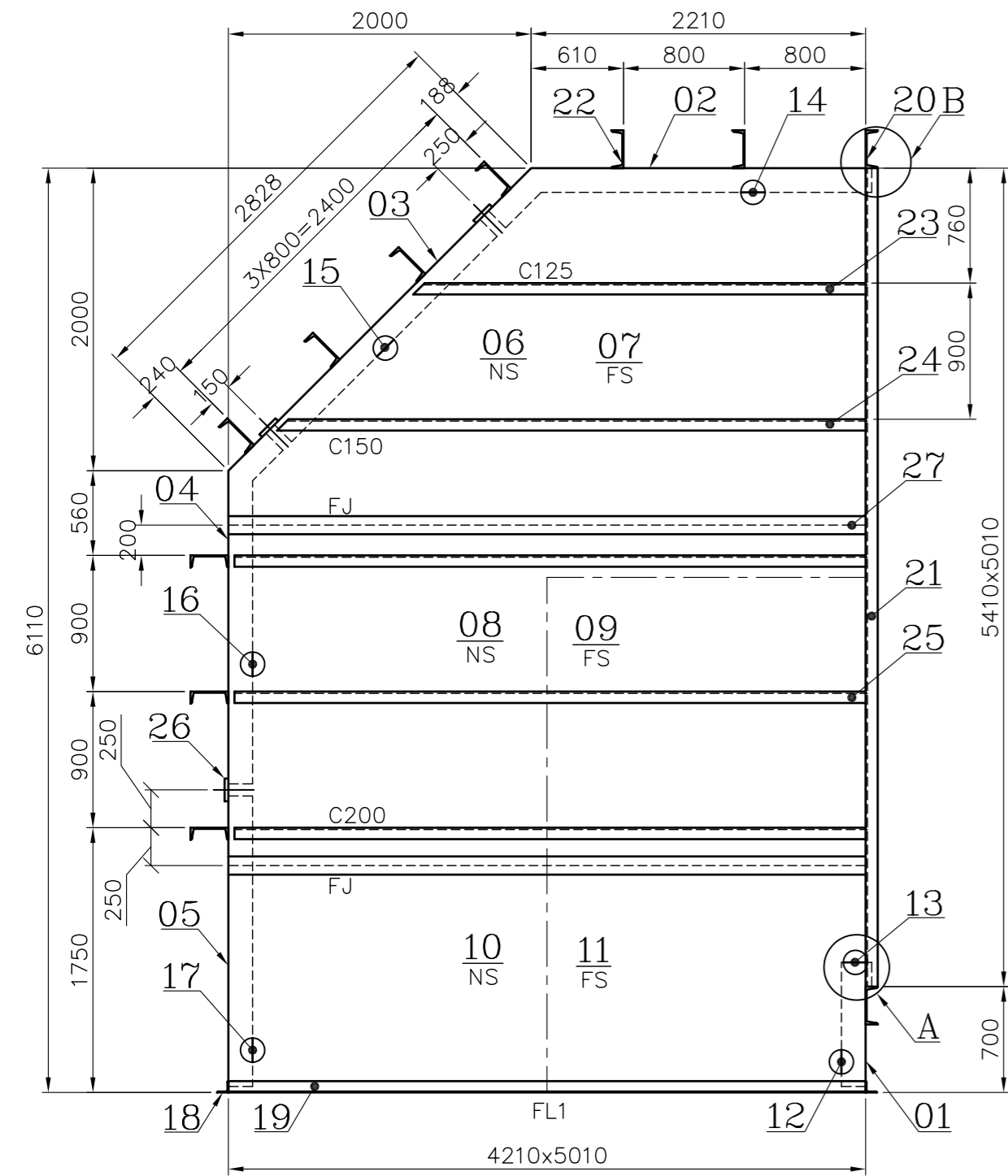
CODE 124 N.T.S 5824.520

TITLE **DUCT** DRAWING NO : 2-48-202-49655 REV

DESPATCH TABLE

SL. NO.	DESCRIPTION	DU NO.	NO. OFF	ITEM NO.			
				NO.	NO.	NO.	NO.
1	ELBOW WALL	152	1	01	12	18	20
2	ELBOW WALL	153	1	02	14	20	22
3	ELBOW WALL	154	1	03	15	22	26
4	ELBOW WALL	155	1	04	16	22	26
5	ELBOW WALL	156	1	05	17	18	22 26
6	ELBOW WALL	157	1	06	23	24	
7	ELBOW WALL	158	1	07	23	24	
8	ELBOW WALL	159	1	08	25	27	
9	ELBOW WALL	160	1	09	25	27	
10	ELBOW WALL	161	1	10	13	19	27
11	ELBOW WALL	162	1	11	13	19	27
12	COLLECTOR CHANNEL	163	2	21			

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	GS	ZONE
					VAR NO	MATERIAL SPECN		DI	QUANTITY		
	24	ISMC 150 3915				IS2062Fe410A			65.770		A
	23	ISMC 125 3015				IS2062Fe410A			39.490		A
	22	ISMC 250 4950				IS2062Fe410A			169.290		B
	21	ISMC 250 5410				IS2062Fe410A			185.020		B
	20	ISMC 250 5510				IS2062Fe410A			188.440		B
	19	ISA 75X75X6 4210				IS2062Fe410A			28.620		B
	18	ISA 75X75X6 5160				IS2062Fe410A			35.080		B
	17	ISA 75X75X6 1978.5				IS2062Fe410A			13.450		B
	16	ISA 75X75X6 2497				IS2062Fe410A			16.980		B
	15	ISA 75X75X6 1997				IS2062Fe410A			13.580		B
	14	ISA 75X75X6 2671.5				IS2062Fe410A			18.160		B
	13	ISA 75X75X6 100				IS2062Fe410A			0.680		C
	12	ISA 75X75X6 680				IS2062Fe410A			4.620		C
	11	PLATE 5 1467.5x4230				IS2062Fe410A			242.830		C
	10	PLATE 5 1467.5x4230				IS2062Fe410A			242.830		C
	09	PLATE 5 2225x4230				IS2062Fe410A			369.400		C
	08	PLATE 5 2225x4230				IS2062Fe410A			369.400		C
	07	PLATE 5 2342.5x4230				IS2062Fe410A			310.620		D
	06	PLATE 5 2342.5x4230				IS2062Fe410A			310.620		D
	05	PLATE 5 5000x1967.5				IS2062Fe410A			386.120		D
	04	PLATE 5 5000x2475				IS2062Fe410A			485.710		D
	03	PLATE 5 5000x1975				IS2062Fe410A			387.590		D
	02	PLATE 5 5000x2660.5				IS2062Fe410A			522.120		E
	01	PLATE 5 5000x670				IS2062Fe410A			131.480		E



NOTE:

- 01. FOR GENERAL NOTES REFER PAGE NO. 41 (REF: 41) OF DUCT CONSTRUCTION MANUAL. REF122 FOR CONSTRUCTION DETAIL.
- 02. NTPC, CORNER SS TYPE, FIELD ASSEMBLED DUCT

FLANGE DETAILS

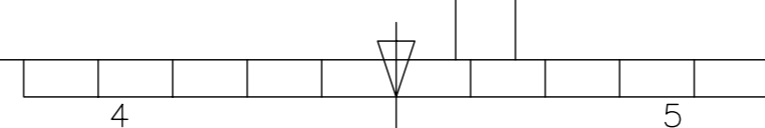
FLANGE NO.	REF	D	X	A	B	W	S	E	F	N
FL1	REF109	5010	528	2	1828	4210	1042	1	914	24

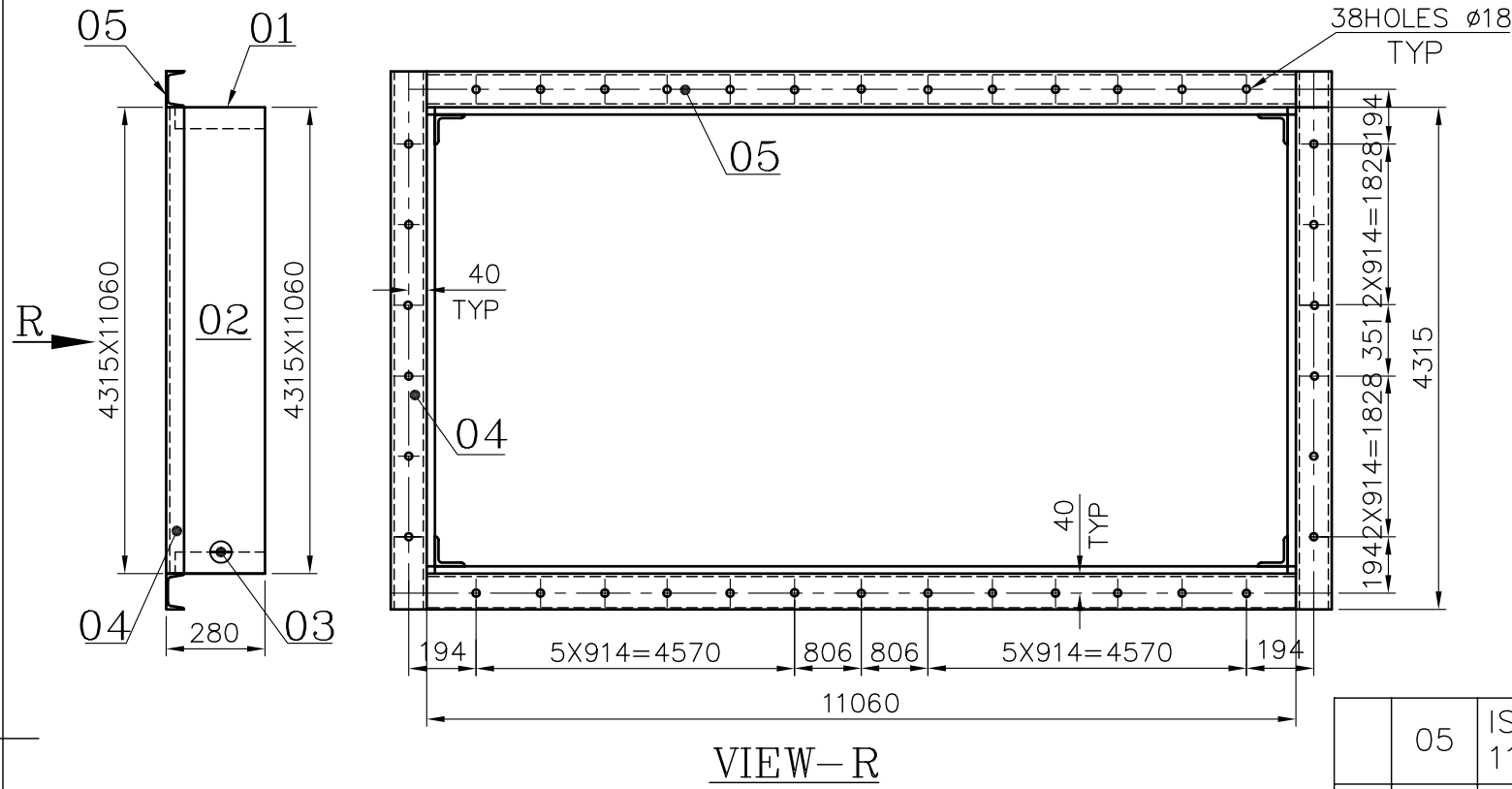
27	PLATE 5 125x4205							150110290000		20.630
								IS2062Fe410A		4
26	PLATE 5 125x5000							150110290000		24.530
								IS2062Fe410A		3
25	ISMC 200 4180							150100380000		93.210
								IS2062Fe410A		6

REV	DATE	ALTERED :
01		CHD & APPD :

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TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT			
 Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014			
DRN	NAME	SIGNATURE	DATE
CHD	EOL/KUMAR		17-12-09
APPD	P.K.ADHI		17-12-09
DEPT	PROJECT	SCALE	WEIGHT (Kg)
DU	ALL DIMENSIONS ARE IN MM	N.T.S	7217.480
CODE	124		
TITLE			REF TO ASSY / OLD DWG
ELBOW			
DRAWING NO :			REV
2-48-202-49656			





**NOTE:**

- 01. FOR GENERAL NOTES REFER PAGE NO. 41 (REF:41) OF DUCT CONSTRUCTION MANUAL. REF122 FOR CONSTRUCTION DETAIL.
- 02. NTPC, CORNER SS TYPE, FIELD ASSEMBLED DUCT

**DESPATCH TABLE**

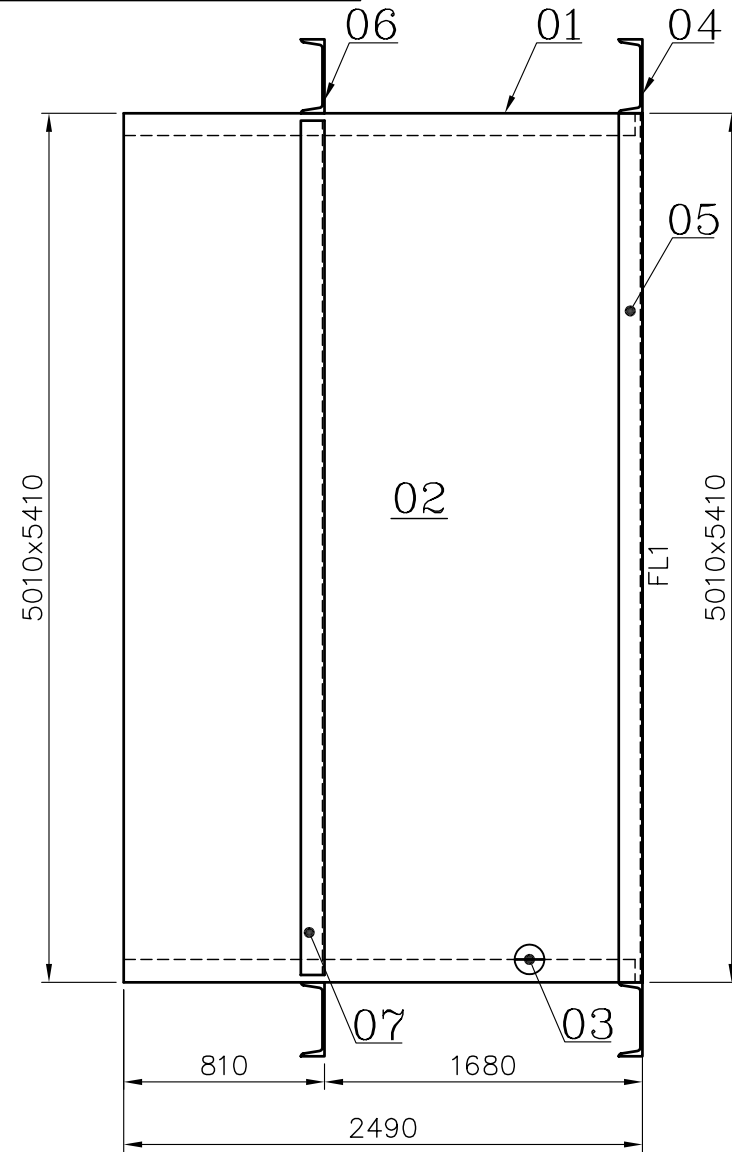
SL. NO.	DESCRIPTION	DU NO.	NO. OFF	ITEM NO.		
				NO. OFF		
1	DUCT WALL	001	2	01	03	05
				1	2	1
2	DUCT WALL	002	2	02	04	
				1	1	

ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	CS
VAR NO	MATERIAL SPECN					DI	QUANTITY		
05	ISMC 100 11060				150100030000			105.730	
					IS2062Fe410A			2	
04	ISMC 100 4515				150100030000			43.160	
					IS2062Fe410A			2	
03	ISA 75X75X6 260				150130050000			1.760	
					IS2062Fe410A			4	
02	PLATE 5 4305x260				150110290000			43.930	
					IS2062Fe410A			2	
01	PLATE 5 11050x260				150110290000			112.760	
					IS2062Fe410A			2	

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		Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014		DRN	NAME	SIGNATURE	DATE
				CHD	EOL/KUMAR		17-12-09
				APPD	K.PANDIYAN		17-12-09
DEPT	DU	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG	
CODE	124			N.T.S	618.200		
TITLE						DRAWING NO :	REV
DUCT						3-48-202-73079	

REV	DATE	ALTERED :
01		CHD & APPD :
ZONE		

DRAWING NO: 3-48-202-73081



**NOTE:**

- 01. FOR GENERAL NOTES REFER PAGE NO. 41 (REF:41) OF DUCT CONSTRUCTION MANUAL. REF122 FOR CONSTRUCTION DETAIL.
- 02. NTPC, CORNER SS TYPE, FIELD ASSEMBLED DUCT

FLANGE DETAILS

FLANGE NO.	REF	D	X	A	B	W	S	E	F	N
FL1	REF109	5410	728	2	1828	5010	528	2	1828	28

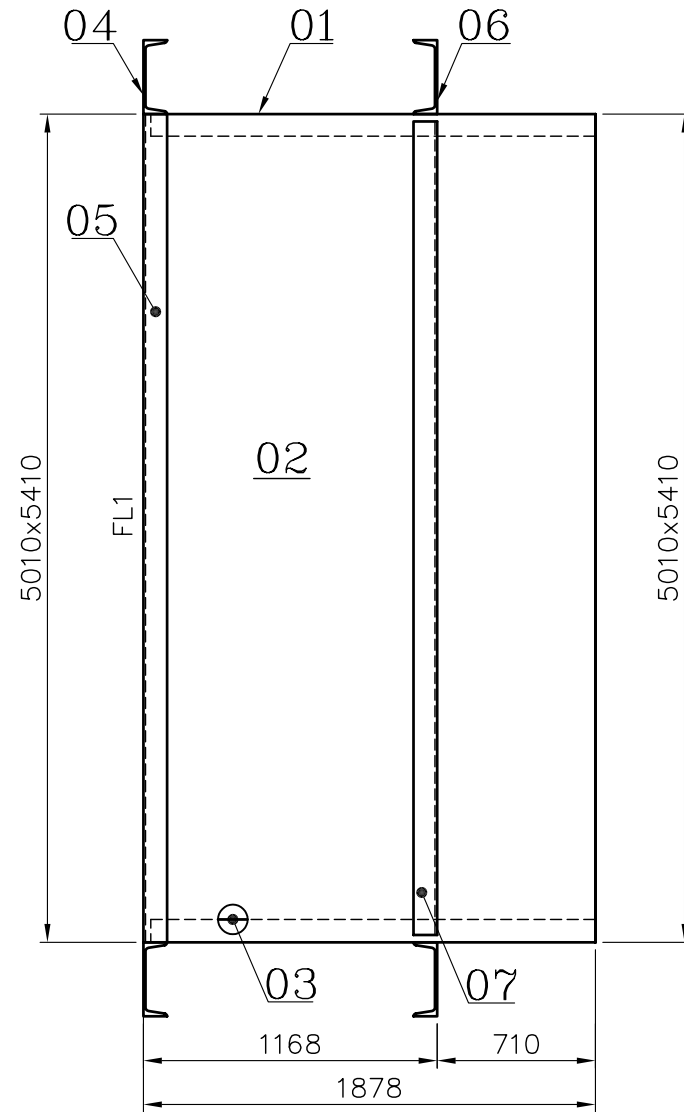
**DESPATCH TABLE**

SL. NO.	DESCRIPTION	DU NO.	NO. OFF	ITEM NO.			
				NO. OFF			
1	DUCT WALL	144	2	01	03	04	06
				1	2	1	1
2	DUCT WALL	145	2	02	05	07	
				1	1	1	

ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	CS
				VAR NO	MATERIAL SPECN		DI	QUANTITY	
07	ISMC 250 4950				150100340000			169.290	
					IS2062Fe410A			2	
06	ISMC 250 5350				150100340000			182.970	
					IS2062Fe410A			2	
05	ISMC 150 5010				150100350000			84.160	
					IS2062Fe410A			2	
04	ISMC 250 5710				150100340000			195.300	
					IS2062Fe410A			2	
03	ISA 75X75X6 2470				150130050000			16.790	
					IS2062Fe410A			4	
02	PLATE 5 2470x5000				150110290000			484.730	
					IS2062Fe410A			2	
01	PLATE 5 2470x5400				150110290000			523.510	
					IS2062Fe410A			2	

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		Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014		DRN	NAME	SIGNATURE	DATE
				CHD	EOL/KUMAR		17-12-09
				APPD	P.K.ADHI		17-12-09
DEPT	DU	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG	
CODE	124			N.T.S	3347.080		
TITLE <h2 style="margin: 0;">DUCT</h2>						DRAWING NO : <h1 style="margin: 0;">3-48-202-73081</h1>	
						REV	

REV	DATE	ALTERED :
01		CHD & APPD :
ZONE		



**NOTE:**

- 01. FOR GENERAL NOTES REFER PAGE NO. 41 (REF:41) OF DUCT CONSTRUCTION MANUAL. REF122 FOR CONSTRUCTION DETAIL.
- 02. NTPC, CORNER SS TYPE, FIELD ASSEMBLED DUCT

FLANGE DETAILS

FLANGE NO.	REF	D	X	A	B	W	S	E	F	N
FL1	REF109	5410	728	2	1828	5010	528	2	1828	28

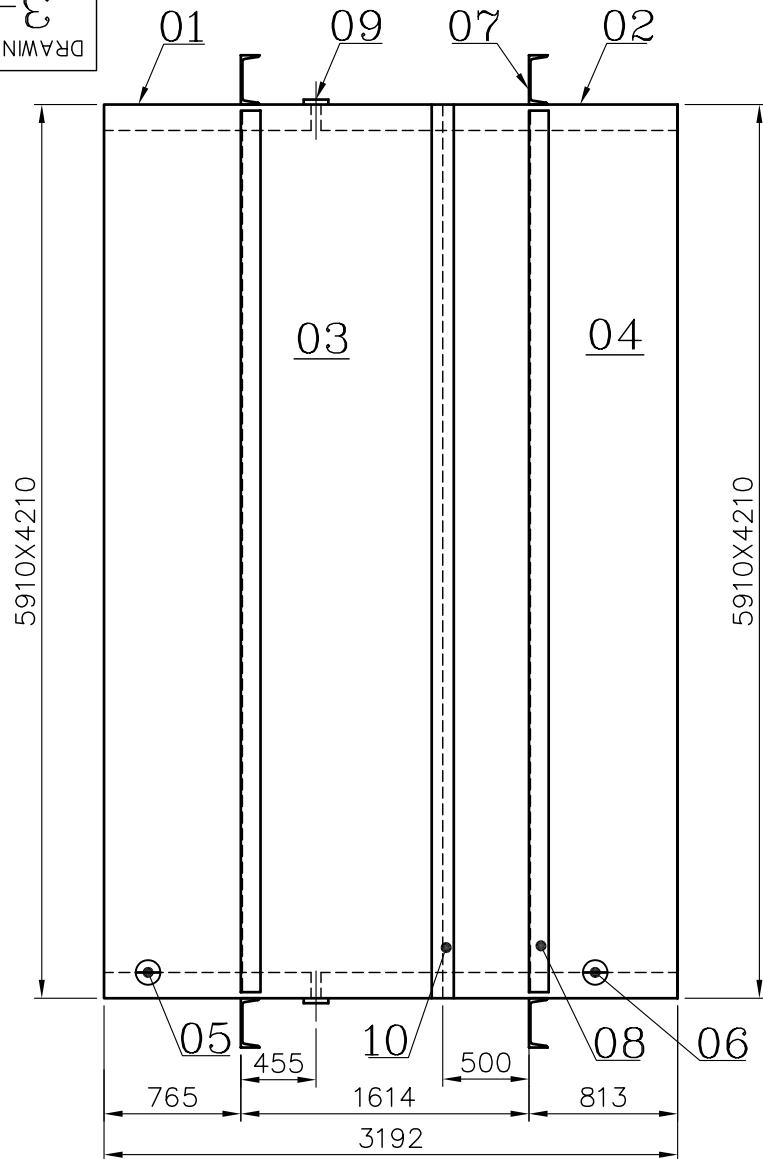
**DESPATCH TABLE**

SL. NO.	DESCRIPTION	DU NO.	NO. OFF	ITEM NO.			
				NO.OFF			
1	DUCT WALL	146	2	01	03	04	06
				1	2	1	1
2	DUCT WALL	147	2	02	05	07	
				1	1	1	

ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	CS
				VAR NO	MATERIAL SPECN		DI	QUANTITY	
07	ISMC 250 4950				150100340000			169.290	
					IS2062Fe410A			2	
06	ISMC 250 5350				150100340000			182.970	
					IS2062Fe410A			2	
05	ISMC 250 5010				150100340000			171.340	
					IS2062Fe410A			2	
04	ISMC 250 5910				150100340000			202.120	
					IS2062Fe410A			2	
03	ISA 75X75X6 1858				150130050000			12.630	
					IS2062Fe410A			4	
02	PLATE 5 1858x5000				150110290000			364.630	
					IS2062Fe410A			2	
01	PLATE 5 1858x5400				150110290000			393.800	
					IS2062Fe410A			2	

<p style="font-size: small;">CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.</p>		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT					
		Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014		DRN	NAME EOL/KUMAR	SIGNATURE	DATE 17-12-09
		CHD	K.P	APPD	P.K.ADHI	DATE 17-12-09	
		DEPT DU	ALL DIMENSIONS ARE IN MM	PROJECTION 	SCALE N.T.S	WEIGHT (Kg) 3018.820	REF TO ASSY / OLD DWG
CODE 124	TITLE <b>DUCT</b>				DRAWING NO : <b>3-48-202-73082</b>	REV	

REV	DATE	ALTERED :
01		CHD & APPD :
ZONE		



DESPATCH TABLE

SL. NO.	DESCRIPTION	DU NO.	NO. OFF	ITEM NO.			
				NO.OFF			
1	DUCT WALL	180	2	01	05	07	09
				1	2	1	1
2	DUCT WALL	181	2	02	06	07	
				1	2	1	
3	DUCT WALL	182	2	03	08		
				1	1		
4	DUCT WALL	183	2	04	08	10	
				1	1	1	

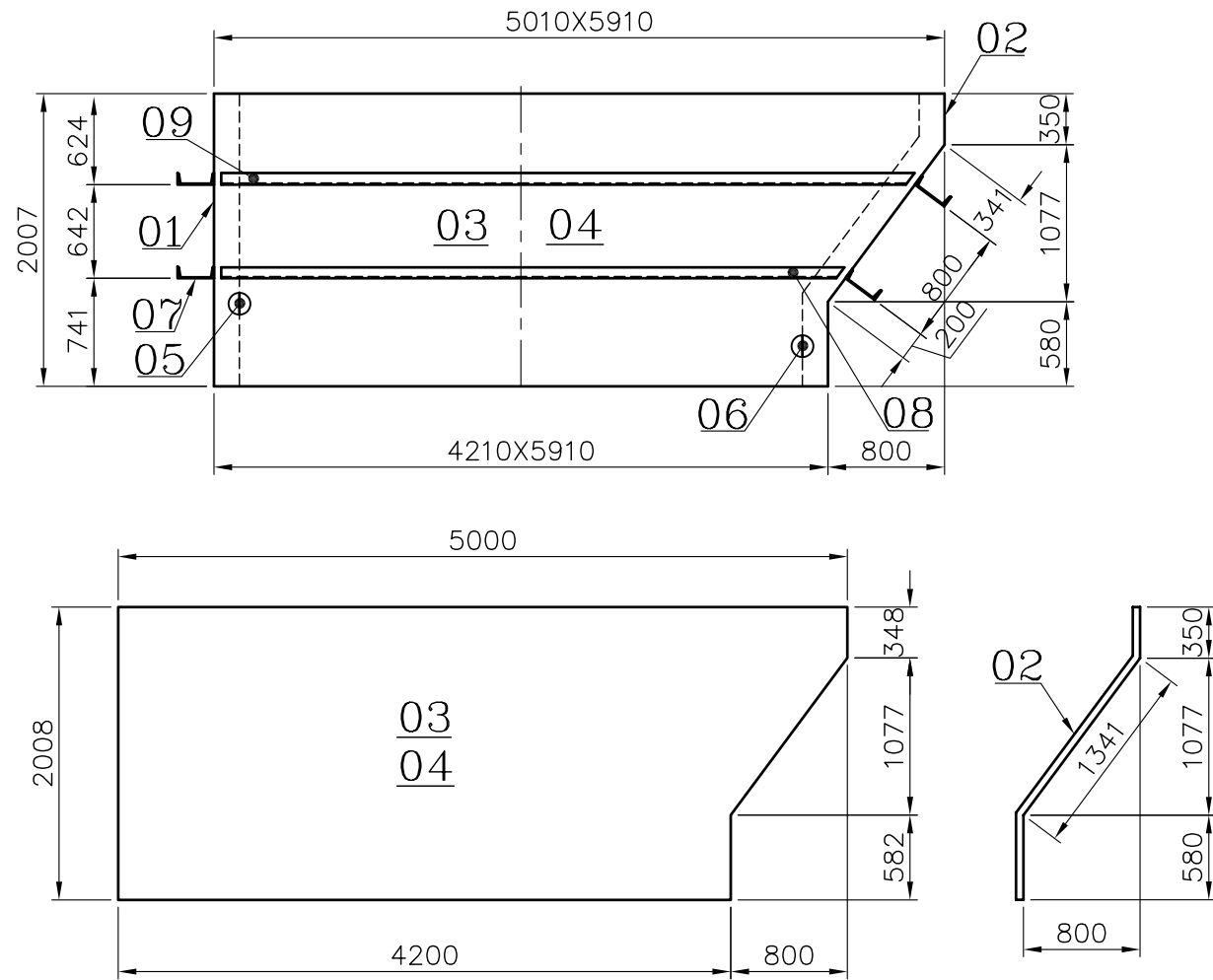
REV	DATE	ALTERED :
01		CHD & APPD :
ZONE		

**NOTE:**

- FOR GENERAL NOTES REFER PAGE NO. 41 (REF:41) OF DUCT CONSTRUCTION MANUAL. REF122 FOR CONSTRUCTION DETAIL.
- NTPC, CORNER SS TYPE, FIELD ASSEMBLED DUCT

ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	QTY
				VAR NO	MATERIAL SPECN		DI	QUANTITY	
10	PLATE 5 125x5900			150110290000				28.940	
				IS2062Fe410A			2		
09	PLATE 5 125x4200			150110290000				20.600	
				IS2062Fe410A			2		
08	ISMC 250 5850			150100340000				200.070	
				IS2062Fe410A			4		
07	ISMC 200 4150			150100380000				92.540	
				IS2062Fe410A			4		
06	ISA 75X75X6 1970.5			150130050000				13.390	
				IS2062Fe410A			4		
05	ISA 75X75X6 1218.5			150130050000				8.280	
				IS2062Fe410A			4		
04	PLATE 5 5900x1300.5			150110290000				301.160	
				IS2062Fe410A			2		
03	PLATE 5 5900x1866.5			150110290000				432.230	
				IS2062Fe410A			2		
02	PLATE 5 4200x1959.5			150110290000				323.020	
				IS2062Fe410A			2		
01	PLATE 5 4200x1207.5			150110290000				199.050	
				IS2062Fe410A			2		

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		DRN EOL/KUMAR CHD K.P APPD P.K.ADHI		NAME SIGNATURE DATE 17-12-09		
		DEPT DU CODE 124		ALL DIMENSIONS ARE IN MM PROJECTION SCALE N.T.S		WEIGHT (Kg) 3867.120
		REF TO ASSY / OLD DWG				DRAWING NO : 3-48-202-73083
TITLE DUCT					REV	



**NOTE:**

- 01. FOR GENERAL NOTES REFER PAGE NO. 41 (REF:41) OF DUCT CONSTRUCTION MANUAL. REF122 FOR CONSTRUCTION DETAIL.
- 02. NTPC, CORNER SS TYPE, FIELD ASSEMBLED DUCT

09	ISMC 250 4806			150100340000		164.360	
				IS2062Fe410A		2	
08	ISMC 200 4325			150100380000		96.440	
				IS2062Fe410A		2	
07	ISMC 250 5850			150100340000		200.070	
				IS2062Fe410A		4	
06	ISA 75X75X6 2323			150130050000		15.790	
				IS2062Fe410A		2	
05	ISA 75X75X6 2007			150130050000		13.640	
				IS2062Fe410A		2	
04	PLATE 5 2007x5000			150110290000		358.580	
				IS2062Fe410A		1	
03	PLATE 5 2007x5000			150110290000		358.580	
				IS2062Fe410A		1	
02	PLATE 5 5900x2271			150110290000		525.900	
				IS2062Fe410A		1	
01	PLATE 5 5900x2007			150110290000		464.770	
				IS2062Fe410A		1	
ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT WEIGHT
				VAR NO	MATERIAL SPECN	DI	QUANTITY

**DESPATCH TABLE**

SL. NO.	DESCRIPTION	DU NO.	NO. OFF	ITEM NO.		
				NO.	NO.	NO.
1	TRANSITION WALL	184	1	01	05	07
				1	2	2
2	TRANSITION WALL	185	1	02	06	07
				1	2	2
3	TRANSITION WALL	186	1	03	08	09
				1	1	1
4	TRANSITION WALL	187	1	04	08	09
				1	1	1

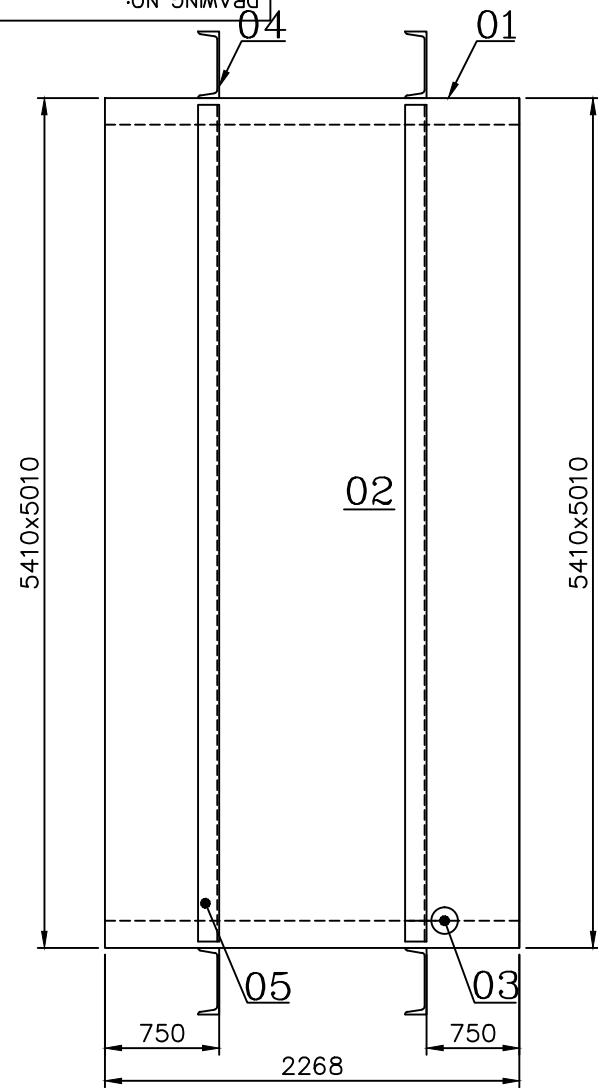
REV	DATE	ALTERED :
01		CHD & APPD :
ZONE		

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TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT						
 355-055	Bharat Heavy Electricals Ltd		DRN	NAME	SIGNATURE	DATE
	UNIT: HIGH PRESSURE BOILER PLANT		CHD	EOL/KUMAR		17-12-09
	TIRUCHIRAPALLI - 620014		APPD	P.K.ADHI		17-12-09
DEPT	DU	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG
CODE	124			N.T.S	3115.570	
TITLE					DRAWING NO :	REV
<b>TRANSITION</b>					3-48-202-73084	

3-48-202-78238

DRAWING NO:



**NOTE:**

- 01. FOR GENERAL NOTES REFER PAGE NO. 41 (REF:41) OF DUCT CONSTRUCTION MANUAL. REF122 FOR CONSTRUCTION DETAIL.
- 02. NTPC, CORNER SS TYPE, FIELD ASSEMBLED DUCT


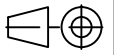
ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	GS
				VAR NO	MATERIAL SPECN		DI	QUANTITY	
05	ISM 250 5350				150100340000 IS2062Fe410A			182.970 4	
04	ISM 250 4950				150100340000 IS2062Fe410A			169.290 4	
03	ISA 75X75X6 2268				150130050000 IS2062Fe410A			15.422 4	
02	PLATE 5 2268x5400				150110290000 IS2062Fe410A			480.702 2	
01	PLATE 5 2268x5000				150110290000 IS2062Fe410A			445.095 2	

**DESPATCH TABLE**

SL. NO.	DESCRIPTION	DU NO.	NO. OFF	ITEM NO.		
				NO.	NO.	NO.
1	DUCT WALL	098	2	01	04	
				1	2	
2	DUCT WALL	099	2	02	03	05
				1	2	2

REV	DATE	ALTERED : KULA
01	08-06-12	CHD & APPD : RAMANA
ZONE	IT.02 PLATE WEIGHT REVISED	

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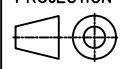
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT						
 355-055	Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014		DRN KULA	SIGNATURE _____	DATE 30-05-12	
	DEPT DU	ALL DIMENSIONS ARE IN MM	PROJECTION 	SCALE N.T.S	WEIGHT (Kg) <del>3150.962</del> 3322.322	REF TO ASSY / OLD DWG
	CODE 124	TITLE DUCT		DRAWING NO : 3-48-202-78238	REV 01	

3-48-202-78241

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	QTY
					VAR NO	MATERIAL SPECN		DI	QUANTITY	
	14	DUCT		3-48-202-73082		ASSY			3018.820	2
	13	DUCT		3-48-202-73081		ASSY			3347.080	2
	12	ELBOW		1-48-202-40989		ASSY			11437.120	1
	11	ELBOW		1-48-202-40988		ASSY			11437.120	1
	10	ELBOW		1-48-202-40987		ASSY			10370.740	2
	09	DUCT		3-48-202-78238		ASSY			3322.322	2
	08	ELBOW		1-48-202-40986		ASSY			13145.610	2
	07	T DUCT		1-48-202-40985		ASSY			14231.340	1
	06	TRANSITION		2-48-202-49654		ASSY			4145.110	2
	05	T DUCT		1-48-202-40984		ASSY			14231.340	1
	04	DUCT		2-48-202-49653		ASSY			9297.730	2
	03	ELBOW		1-48-202-42159		ASSY			9177.060	2
	02	TRANSITION		2-48-202-49652		ASSY			2150.670	2
	01	DUCT		3-48-202-73079		ASSY			618.200	2

19	TRANSITION	3-48-202-73084				ASSY			3115.570	2
18	DUCT	3-48-202-73083				ASSY			3867.120	2
17	ELBOW	1-48-202-40990				ASSY			11851.480	2
16	ELBOW	2-48-202-49656				ASSY			7217.480	2
15	DUCT	2-48-202-49655				ASSY			5824.520	2

BILL OF MATERIALS

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT									
		Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014 355-055			DRN	KULA	SIGNATURE	DATE	4-06-12
DEPT	DU	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG			
CODE	124			N.T.S	232275.944	CHD	RAMANA		4-06-12
TITLE	AH TO WINDBOX DUCTING					APPD	SHAN		4-06-12
						DRAWING NO :			REV
						3-48-202-78241			

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REV	DATE	ALTERED :
01		CHD & APPD:
ZONE		