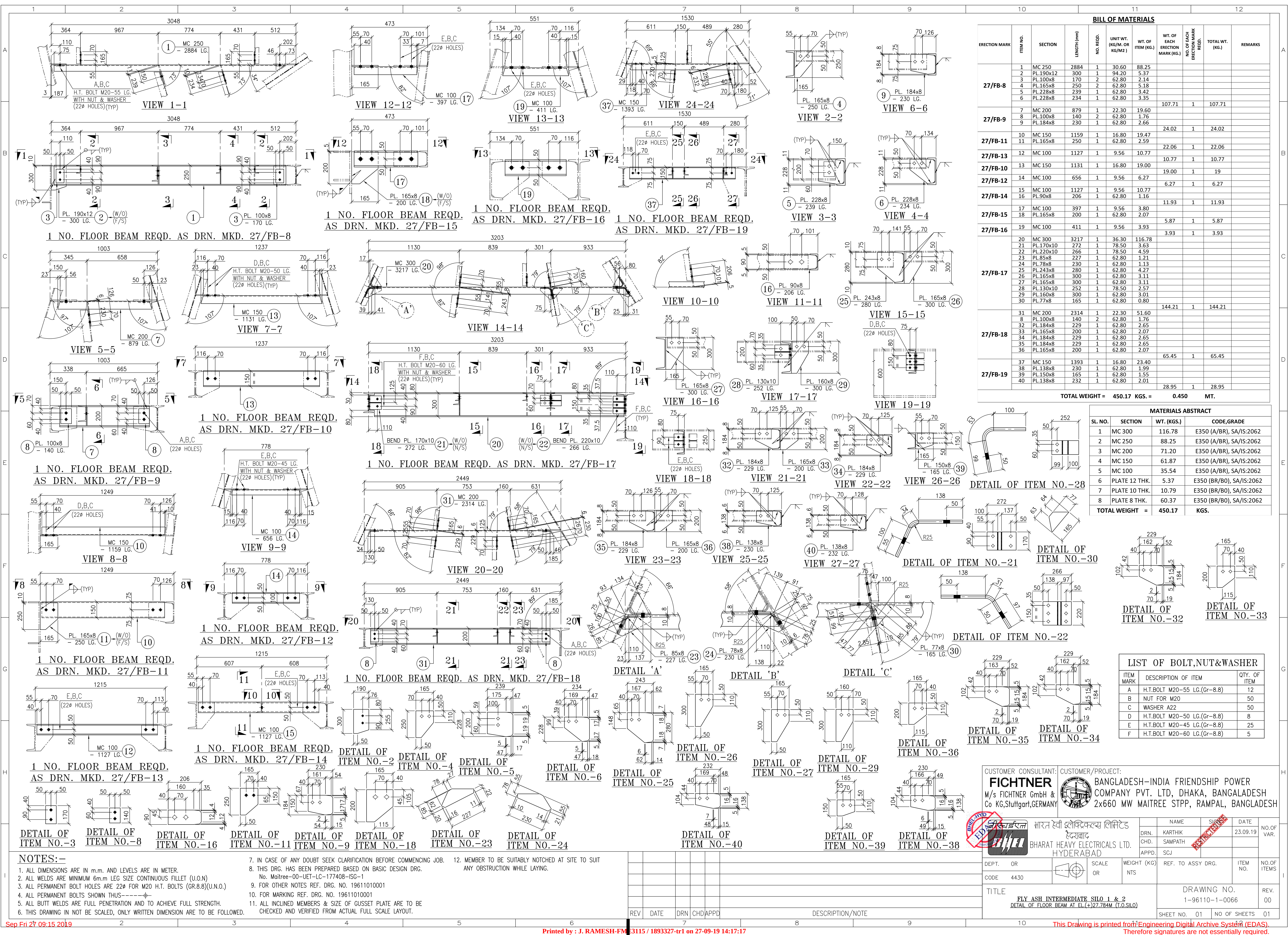
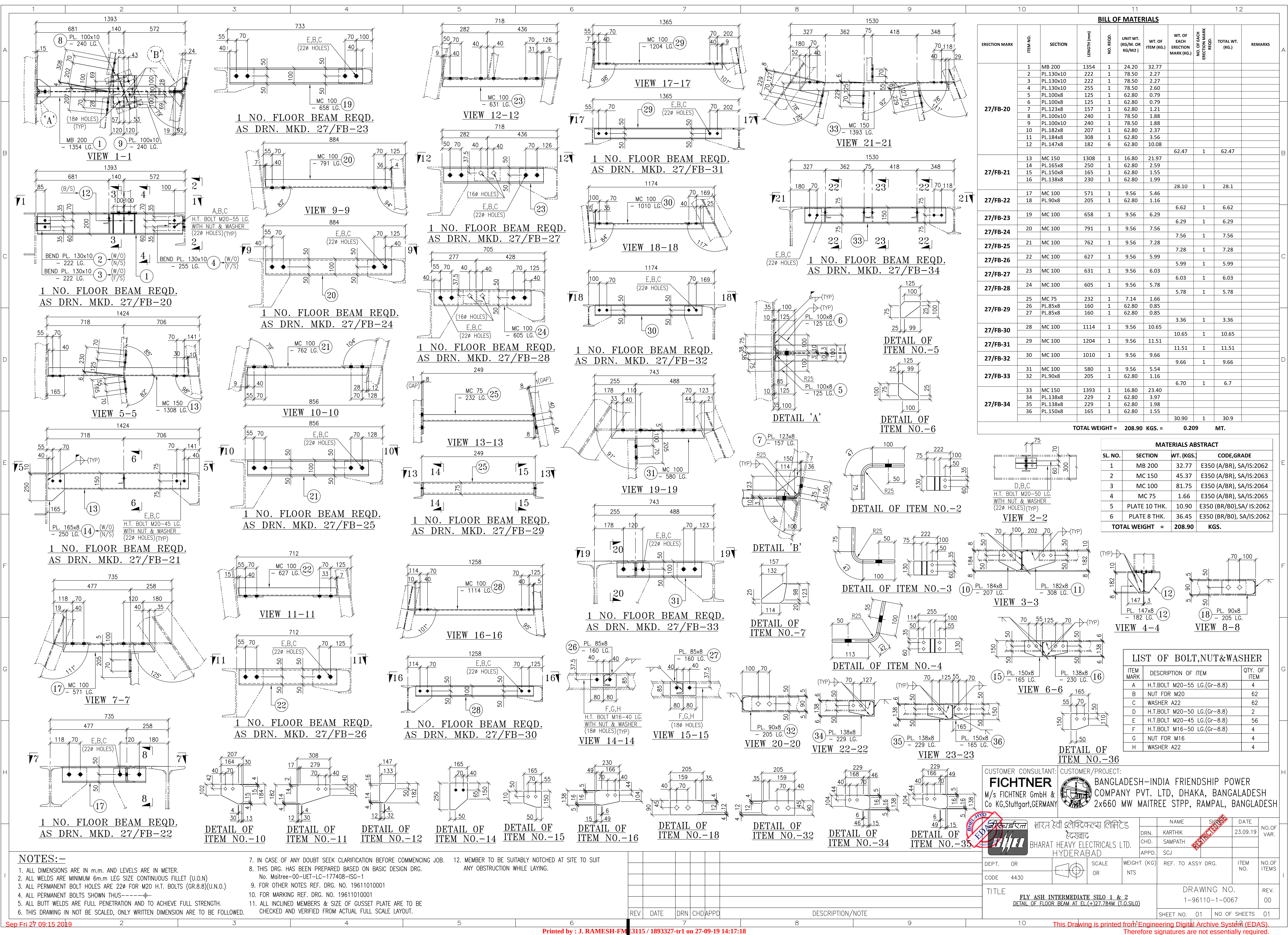
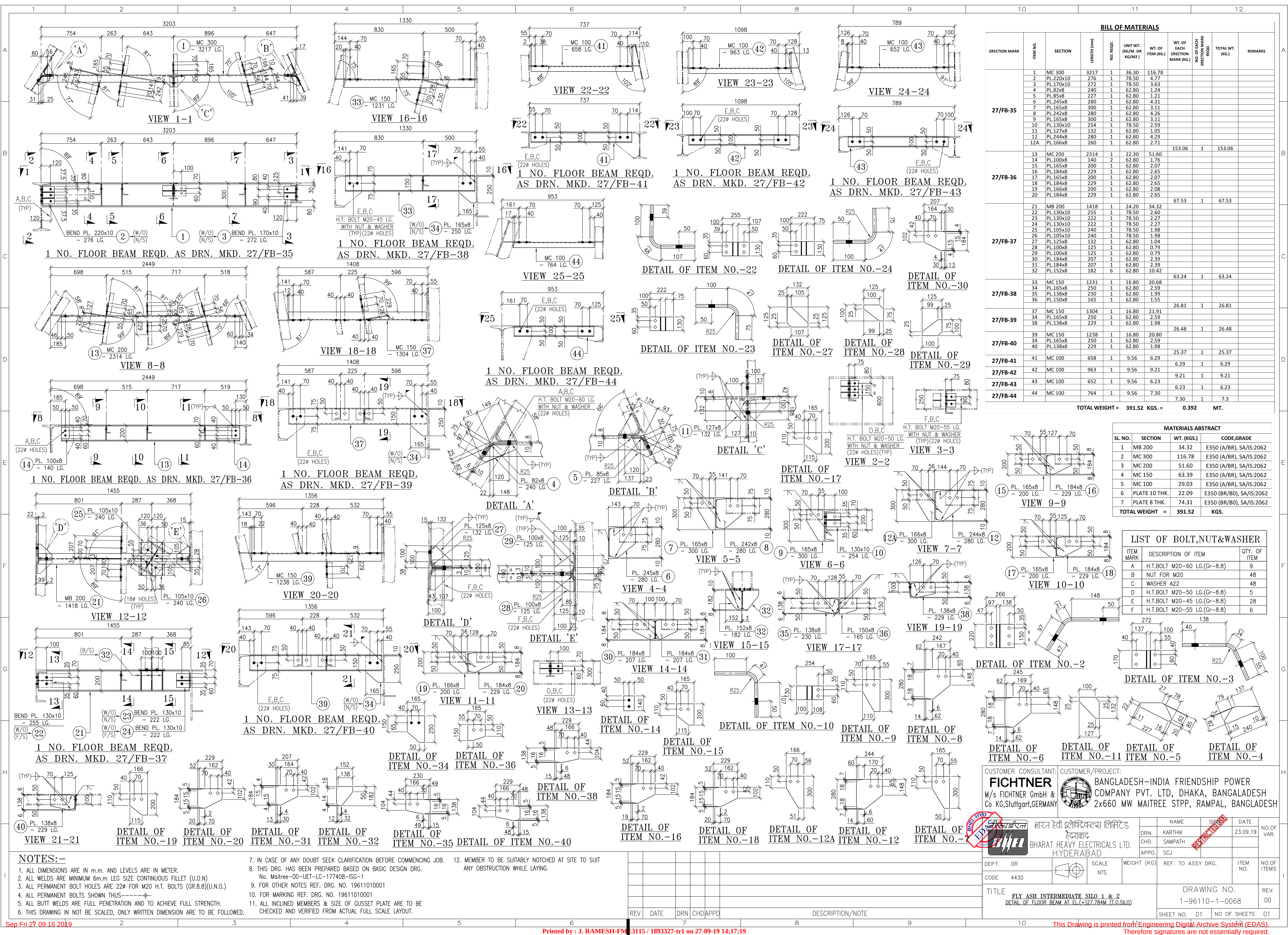
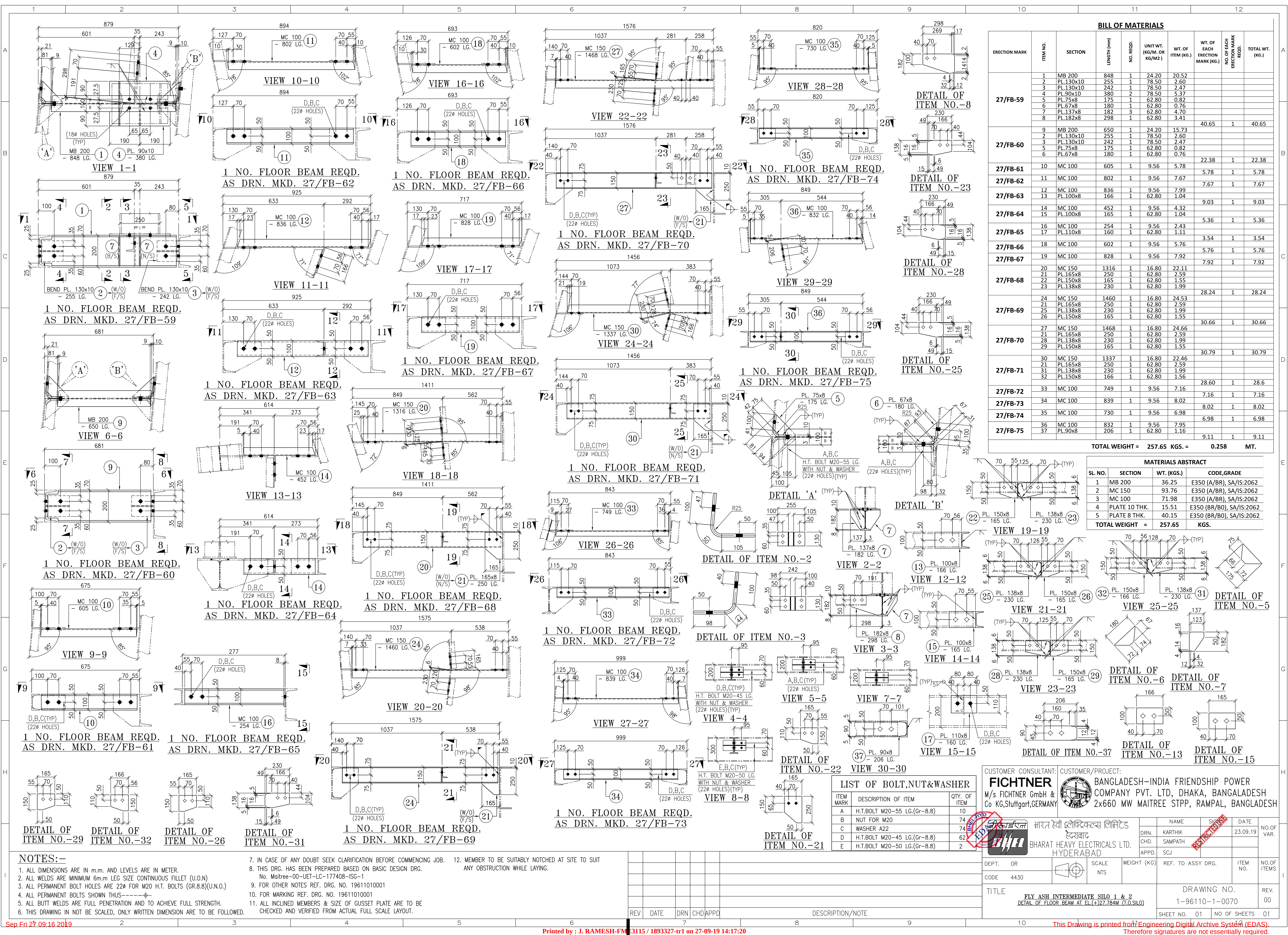










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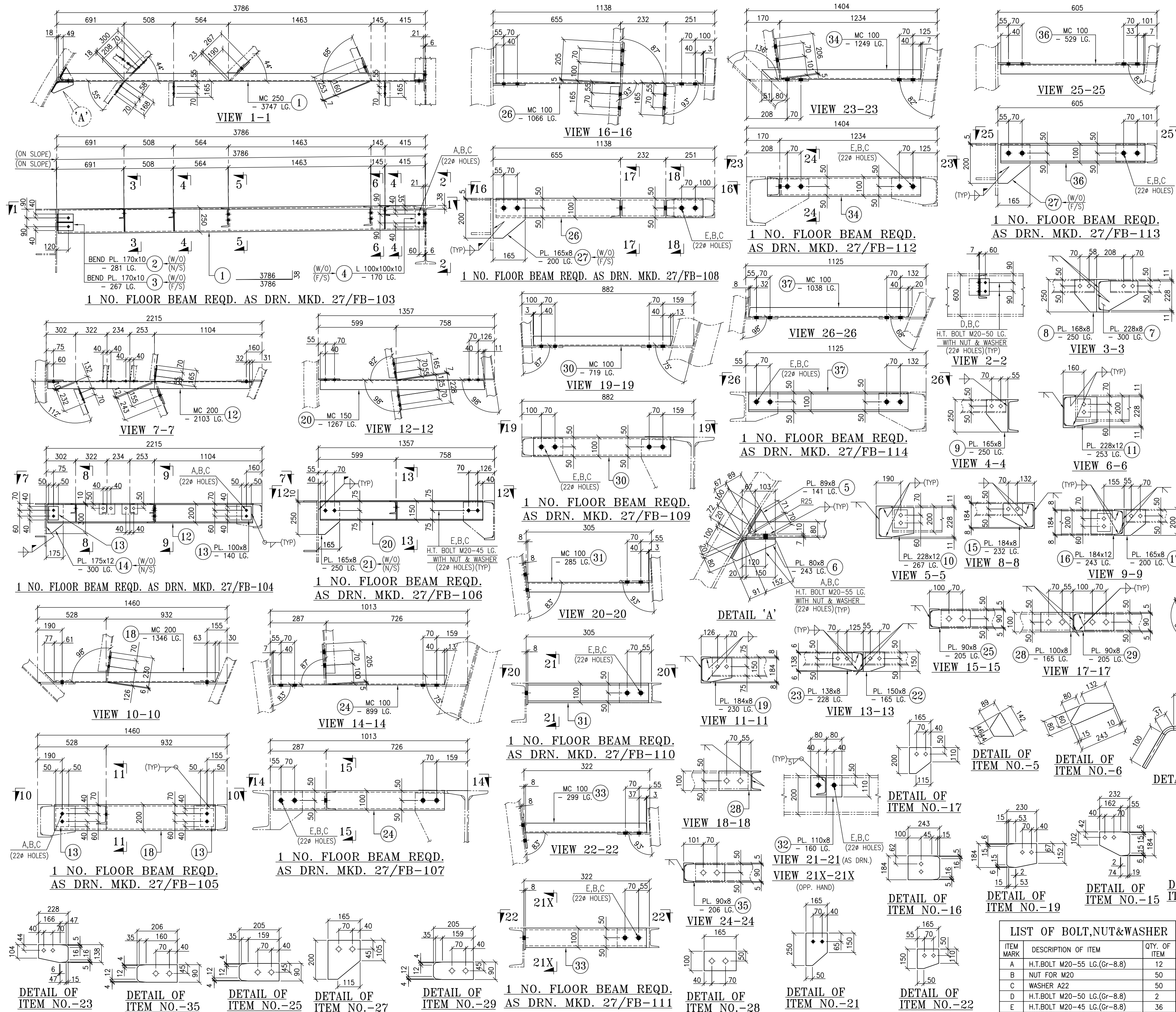
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BILL OF MATERIALS

ERECTION MARK	ITEM NO.	SECTION	LENGTH (mm)	NO. REQD.	UNIT WT. (KG/M. OR KG/M2)	WT. OF ITEM (KG.)	WT. OF EACH ERECTION MARK (KG.)	NO. OF EACH ERECTION MARK REQD.	TOTAL WT. (KG.)
27/FB-103	1	MC 250	3747	1	30.60	114.66			
	2	PL.170x10	281	1	78.50	3.75			
	3	PL.170x10	267	1	78.50	3.56			
	4	L 100x100x10	170	1	14.90	2.53			
	5	PL.89x8	141	1	62.80	0.79			
	6	PL.80x8	243	1	62.80	1.22			
	7	PL.228x8	300	1	62.80	4.30			
	8	PL.168x8	250	1	62.80	2.64			
	9	PL.165x8	250	2	62.80	5.18			
	10	PL.228x12	267	1	94.20	5.73			
	11	PL.228x12	253	1	94.20	5.43			
27/FB-104	12	MC 200	2103	1	22.30	46.90		149.79	1
	13	PL.100x8	140	2	62.80	1.76			
	14	PL.175x12	300	1	94.20	4.95			
	15	PL.184x8	232	1	62.80	2.68			
	16	PL.184x12	243	1	94.20	4.21			
	17	PL.165x8	200	1	62.80	2.07			
27/FB-105	18	MC 200	1346	1	22.30	30.02		62.57	1
	13	PL.100x8	140	2	62.80	1.76			
	19	PL.184x8	230	1	62.80	2.66			
							34.44	1	34.44
27/FB-106	20	MC 150	1267	1	16.80	21.29			
	21	PL.165x8	250	1	62.80	2.59			
	22	PL.150x8	165	1	62.80	1.55			
	23	PL.138x8	228	1	62.80	1.98			
27/FB-107	24	MC 100	899	1	9.56	8.59		27.41	1
	25	PL.90x8	205	1	62.80	1.16		9.75	1
27/FB-108	26	MC 100	1066	1	9.56	10.19		15.49	1
	27	PL.165x8	200	1	62.80	2.07		6.87	1
	28	PL.100x8	165	2	62.80	2.07		3.83	1
	29	PL.90x8	205	1	62.80	1.16		3.97	1
27/FB-109	30	MC 100	719	1	9.56	6.87		13.10	1
27/FB-110	31	MC 100	285	1	9.56	2.72			
	32	PL.110x8	160	1	62.80	1.11			
27/FB-111	33	MC 100	299	1	9.56	2.86			
	32	PL.110x8	160	1	62.80	1.11			
27/FB-112	34	MC 100	1249	1	9.56	11.94			
	35	PL.90x8	206	1	62.80	1.16			
27/FB-113	36	MC 100	529	1	9.56	5.06			
	27	PL.165x8	200	1	62.80	2.07		7.13	1
27/FB-114	37	MC 100	1038	1	9.56	9.92		9.92	1
TOTAL WEIGHT =					344.27 KGS. =	0.344	MT.		

MATERIALS ABSTRACT

SL. NO.	SECTION	WT. (KGS.)	CODE/GRADE
1	MC 250	114.66	E350 (A/BR), SA/IS:2062
2	MC 200	76.92	E350 (A/BR), SA/IS:2062
3	MC 150	21.29	E350 (A/BR), SA/IS:2062
4	MC 100	58.15	E350 (A/BR), SA/IS:2062
5	L 100x100x10	2.53	E350 (A/BR), SA/IS:2062
6	PLATE 12 THK.	20.32	E350 (BR/BO), SA/IS:2062
7	PLATE 10 THK.	7.31	E350 (BR/BO), SA/IS:2062
8	PLATE 8 THK.	43.09	E350 (BR/BO), SA/IS:2062
TOTAL WEIGHT =		344.27	KGS.

LIST OF BOLT,NUT&WASHER		
ITEM MARK	DESCRIPTION OF ITEM	QTY. OF ITEM
A	H.T.BOLT M20-55 LG.(Gr-8.8)	12
B	NUT FOR M20	50
C	WASHER A22	50
D	H.T.BOLT M20-50 LG.(Gr-8.8)	2
E	H.T.BOLT M20-45 LG.(Gr-8.8)	36

CUSTOMER CONSULTANT: CUSTOMER/PROJECT: **FICHTNER** BANGLADESH-INDIA FRIENDSHIP POWER
M/s FICHTNER GmbH & Co KG,Stuttgart,GERMANY COMPANY PVT. LTD, DHAKA, BANGLADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

DEPT. OR	SCALE	WEIGHT (KG)	REF. TO ASSY DRG.	ITEM NO.	NO.OF ITEMS
CODE 4430	OR	NTS			
TITLE			DRAWING NO.		REV.
FLY ASH INTERMEDIATE SILO 1 & 2 DETAIL OF FLOOR BEAM AT EL(+27.784M (T.O.SILO))			1-96110-1-0073		00
SHEET NO. 01			NO OF SHEETS 01		

NOTES:-

- ALL DIMENSIONS ARE IN m.m. AND LEVELS ARE IN METER.
- ALL WELDS ARE MINIMUM 6m.m LEG SIZE CONTINUOUS FILLET (U.O.N)
- ALL PERMANENT BOLT HOLES ARE 22# FOR M20 H.T. BOLTS (GR.8.8)(U.N.O.)
- ALL PERMANENT BOLTS SHOWN THUS-----
- ALL BUTT WELDS ARE FULL PENETRATION AND TO ACHIEVE FULL STRENGTH.
- THIS DRAWING IN NOT BE SCALED, ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED.
7. IN CASE OF ANY DOUBT SEEK CLARIFICATION BEFORE COMMENCING JOB.
8. THIS DRG. HAS BEEN PREPARED BASED ON BASIC DESIGN DRG. No. Maitree-00-UET-LC-177408-ISC-1
9. FOR OTHER NOTES REF. DRG. NO. 19611010001
10. FOR MARKING REF. DRG. NO. 19611010001
11. ALL INCLINED MEMBERS & SIZE OF GUSSET PLATE ARE TO BE CHECKED AND VERIFIED FROM ACTUAL FULL SCALE LAYOUT.
12. MEMBER TO BE SUITABLY NOTCHED AT SITE TO SUIT ANY OBSTRUCTION WHILE LAYING.

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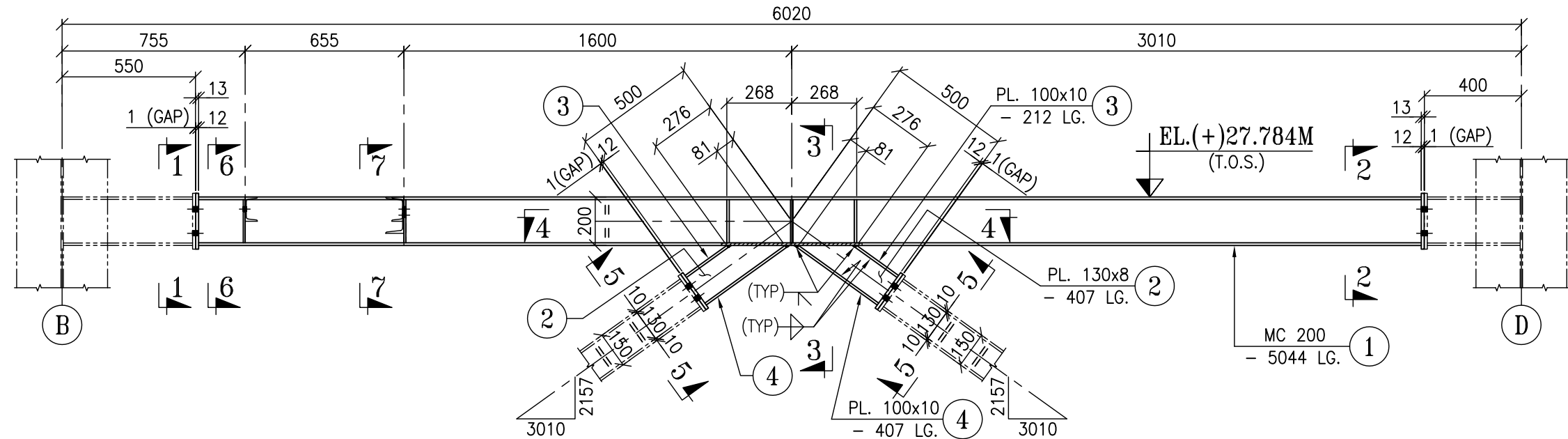
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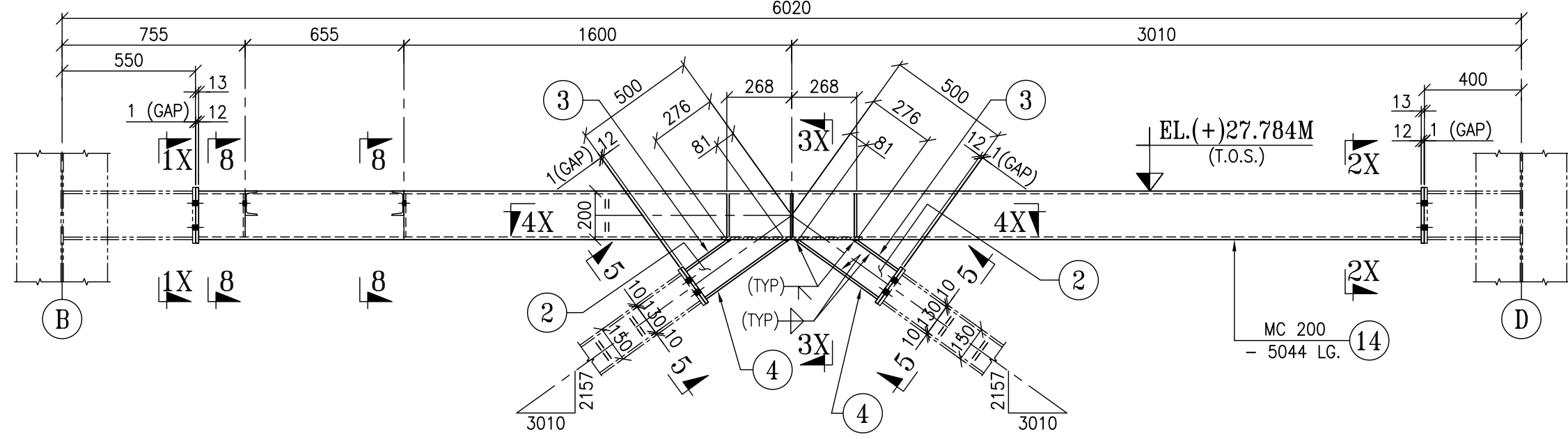
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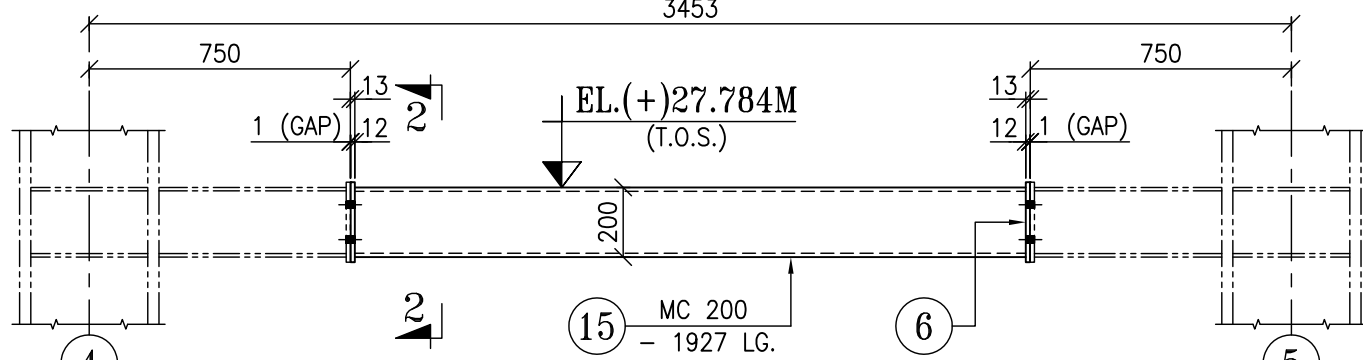
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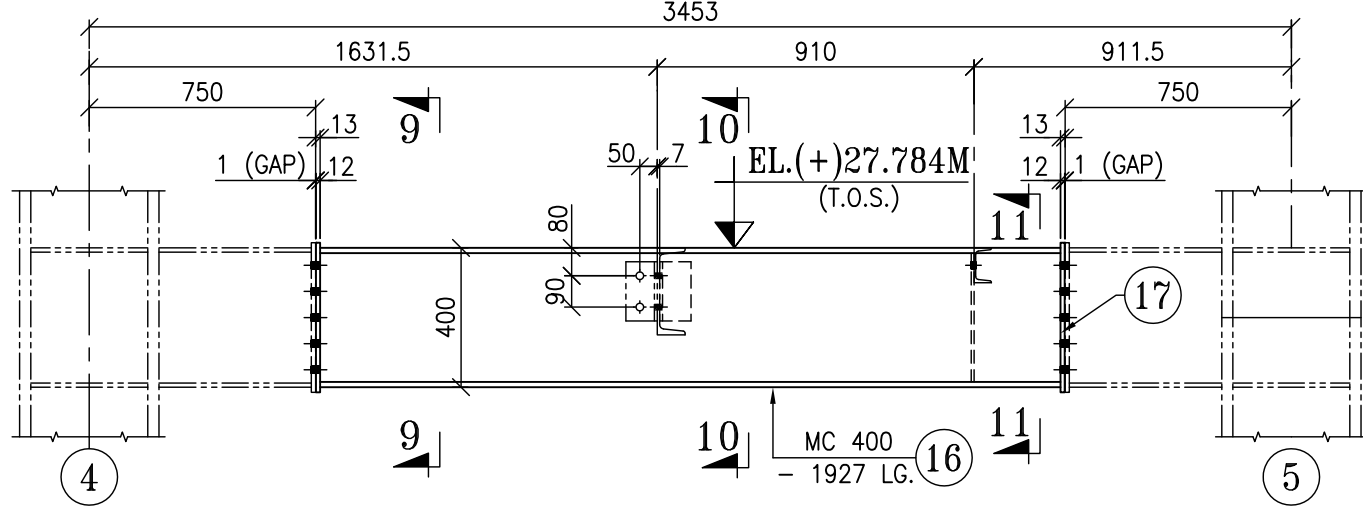
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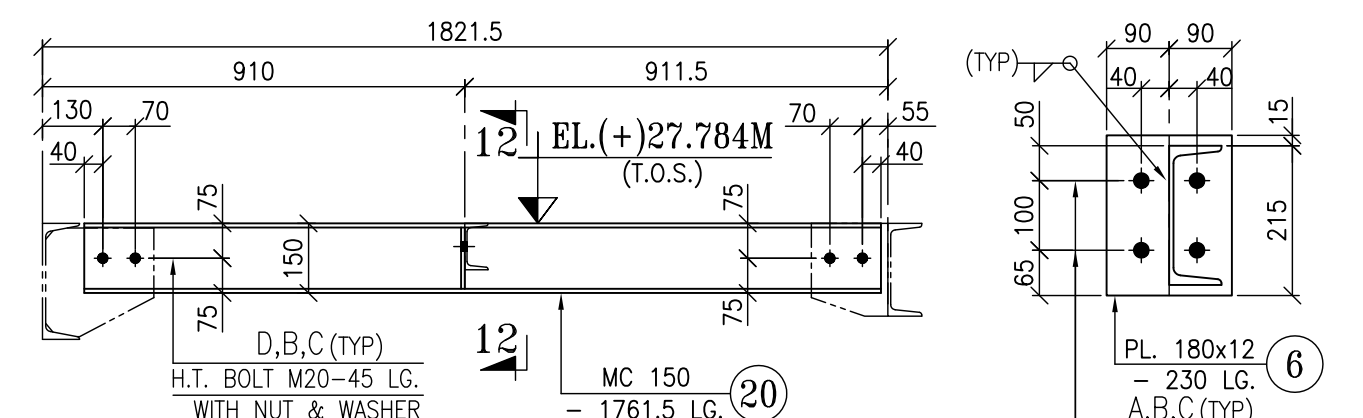
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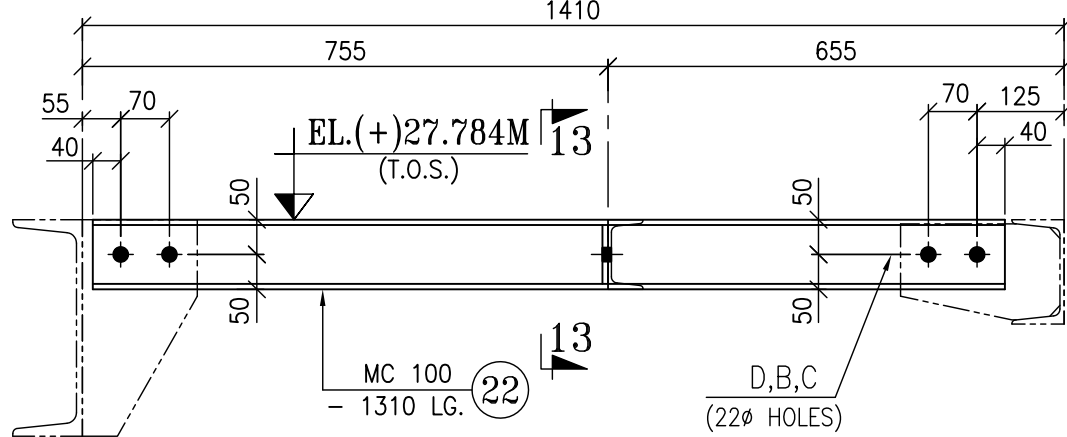
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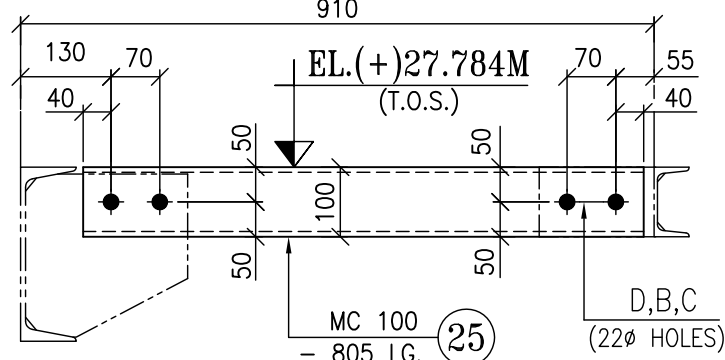
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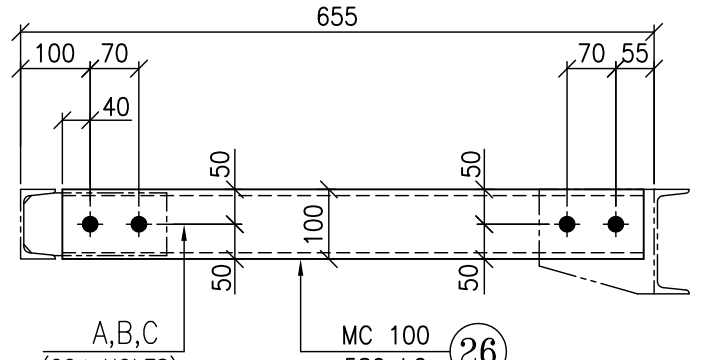
1 NO. FLOOR BEAM REQD. AS DRN. MKD. 27/FB-135



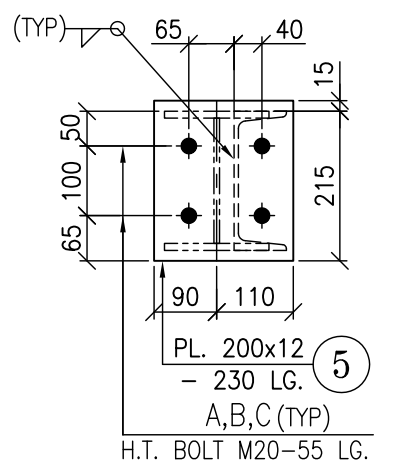
1 NO. FLOOR BEAM REQD. AS DRN. MKD. 27/FB-136



1 NO. FLOOR BEAM REQD. AS DRN. MKD. 27/FB-137

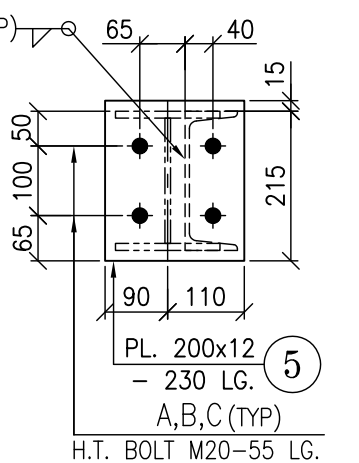


1 NO. FLOOR BEAM REQD. AS DRN. MKD. 27/FB-138



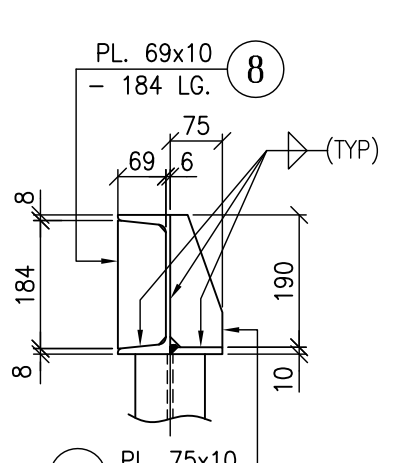
VIEW 2-2 (AS DRN.)

VIEW 2X-2X (AS DRN.)



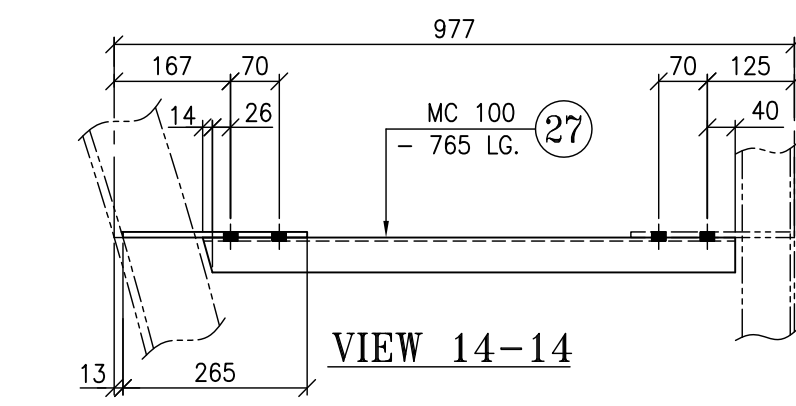
VIEW 1-1 (AS DRN.)

VIEW 1X-1X (AS DRN.)

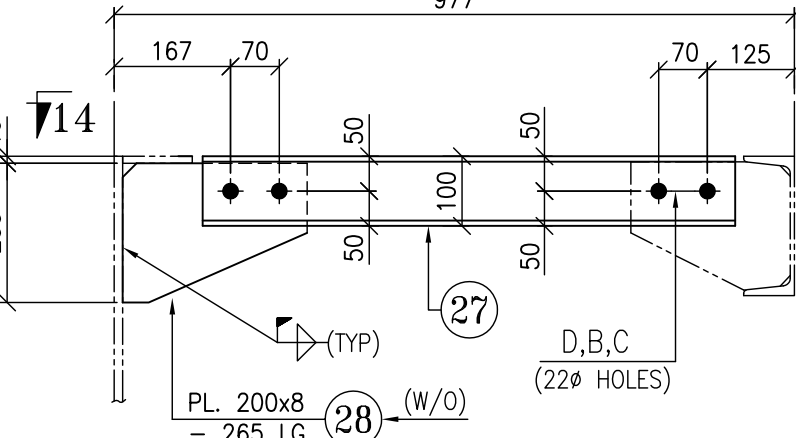


VIEW 3-3 (AS DRN.)

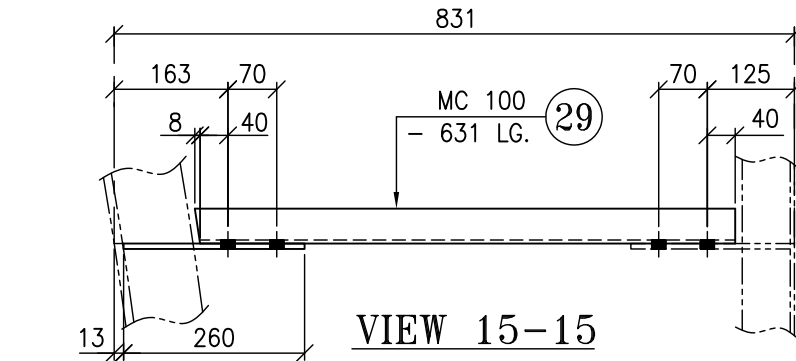
VIEW 3X-3X (AS DRN.)



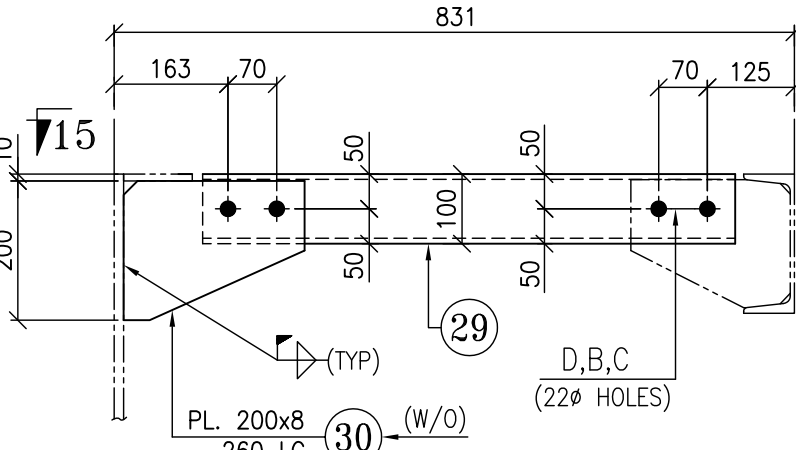
VIEW 14-14



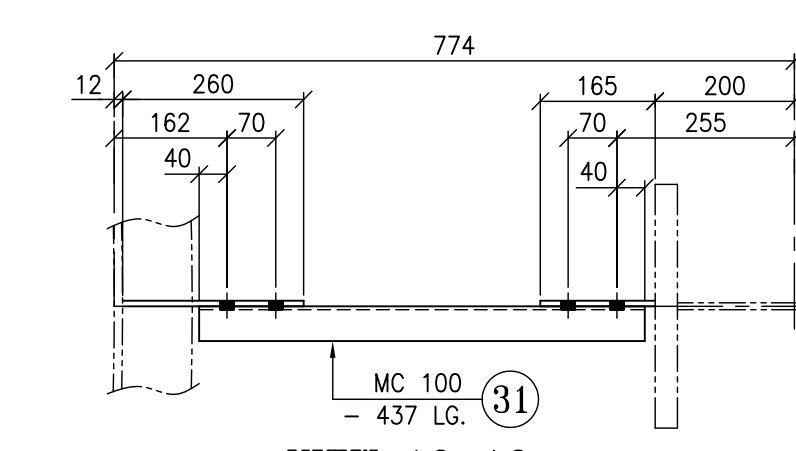
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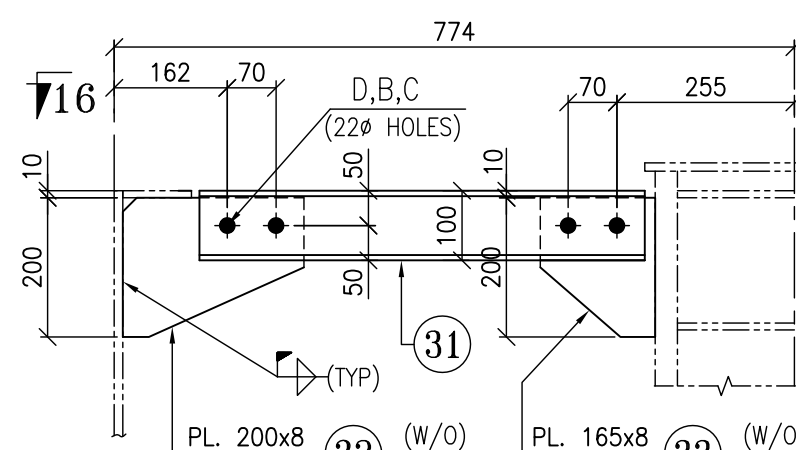
VIEW 15-15



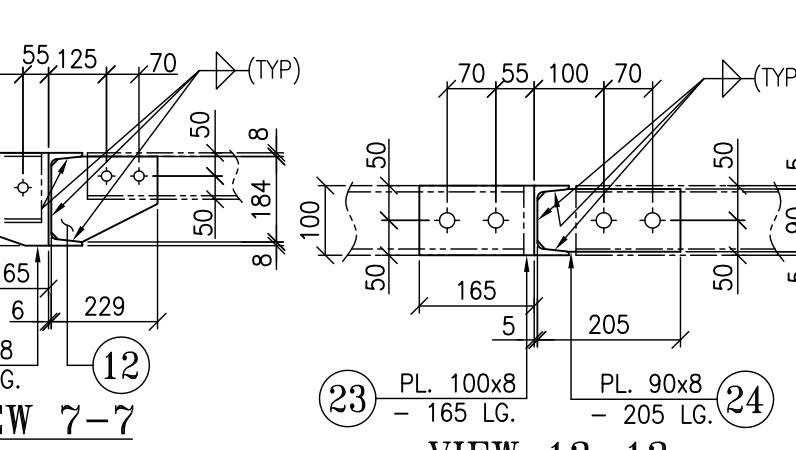
1 NO. FLOOR BEAM REQD. AS DRN. MKD. 27/FB-140



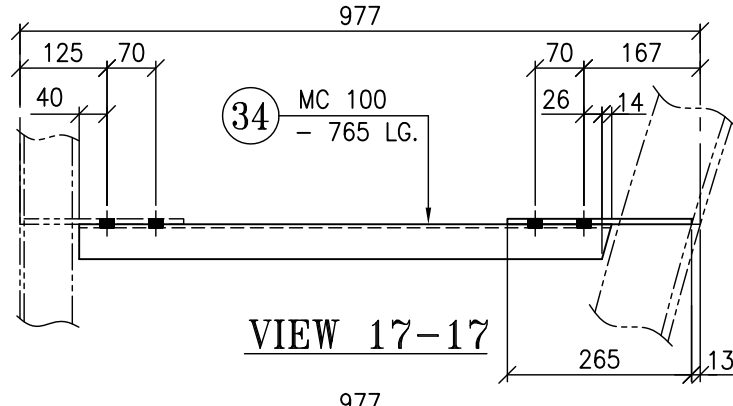
VIEW 16-16



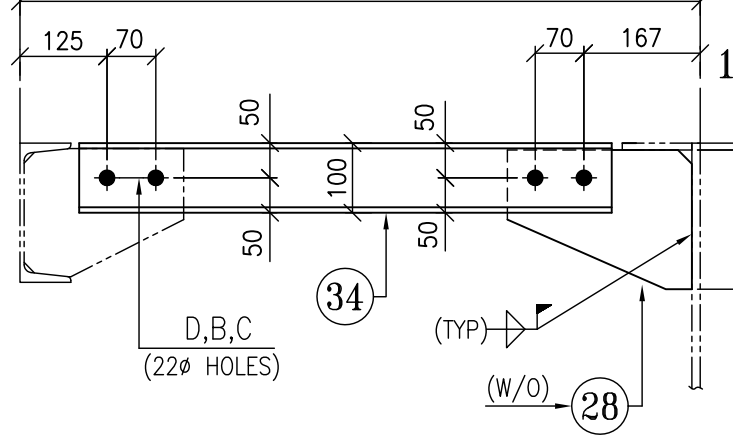
1 NO. FLOOR BEAM REQD. AS DRN. MKD. 27/FB-141



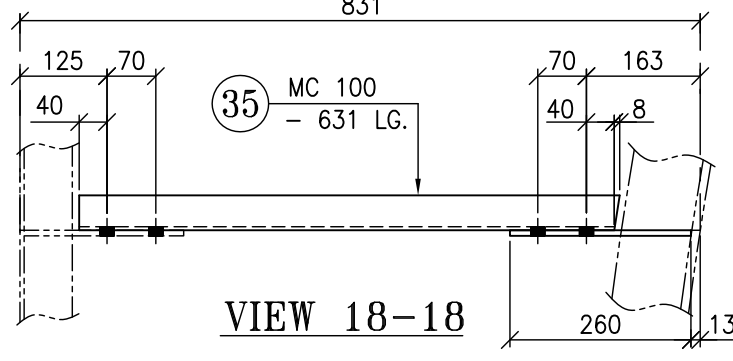
VIEW 13-13



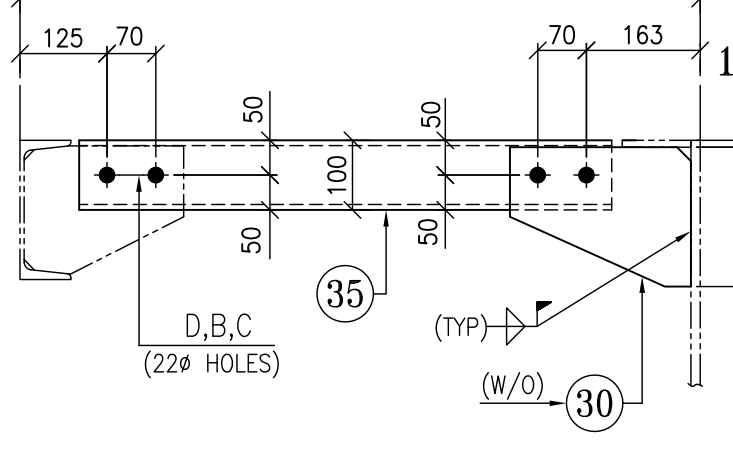
VIEW 17-17



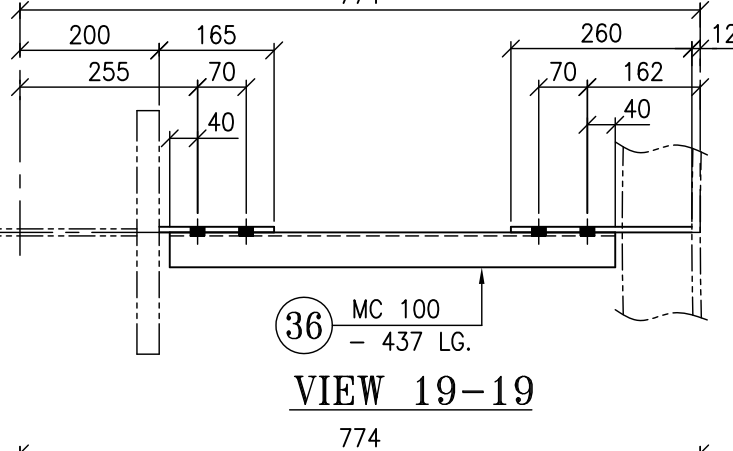
1 NO. FLOOR BEAM REQD. AS DRN. MKD. 27/FB-142



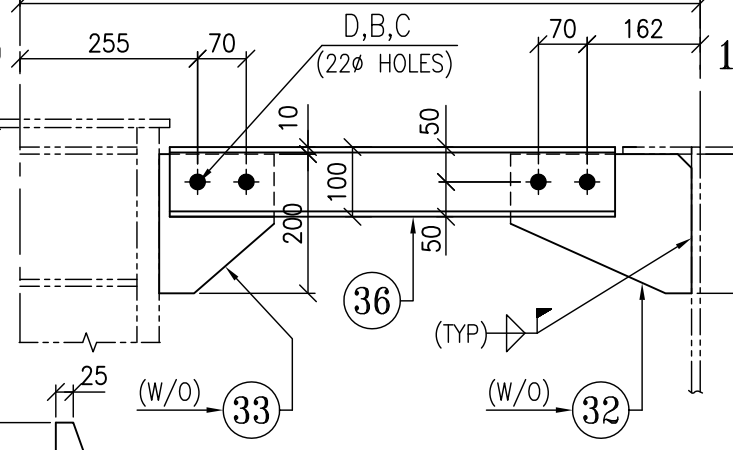
VIEW 18-18



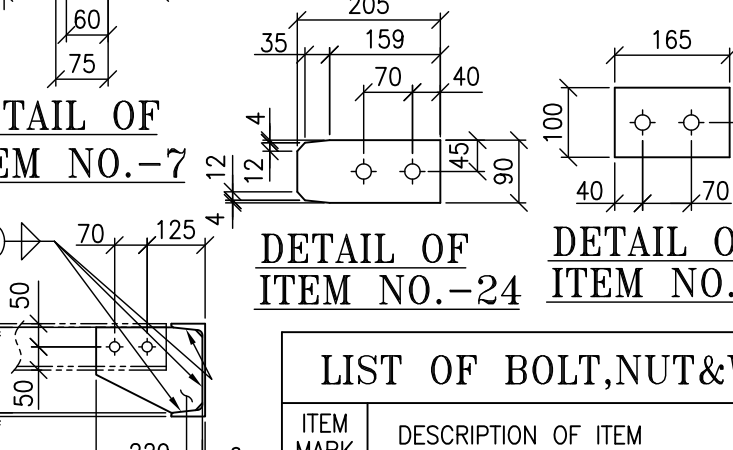
1 NO. FLOOR BEAM REQD. AS DRN. MKD. 27/FB-143



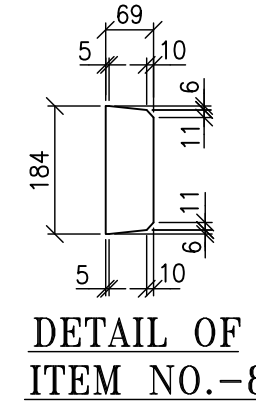
VIEW 19-19



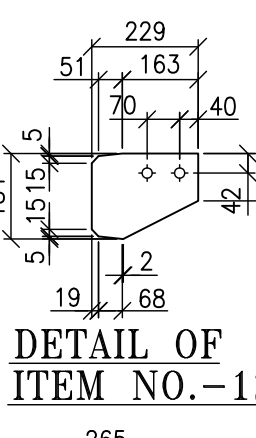
1 NO. FLOOR BEAM REQD. AS DRN. MKD. 27/FB-144



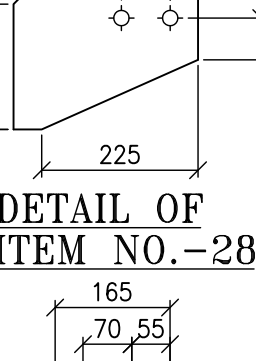
VIEW 8-8



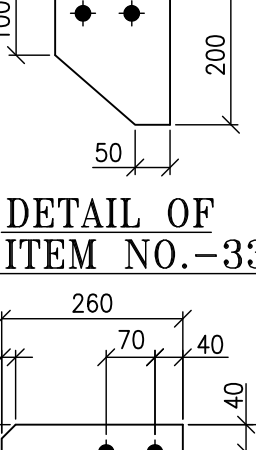
VIEW 17-17



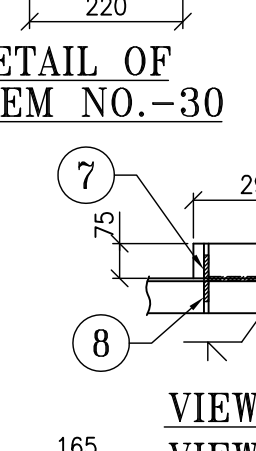
1 NO. FLOOR BEAM REQD. AS DRN. MKD. 27/FB-144



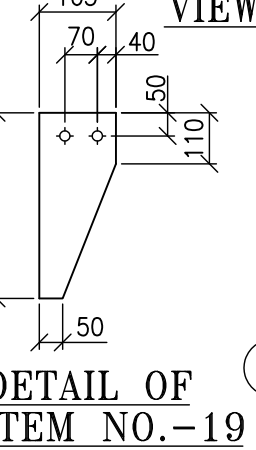
VIEW 18-18



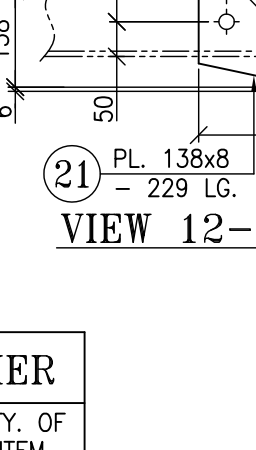
1 NO. FLOOR BEAM REQD. AS DRN. MKD. 27/FB-144



VIEW 19-19



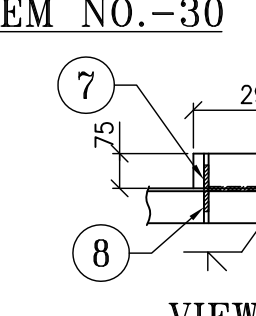
1 NO. FLOOR BEAM REQD. AS DRN. MKD. 27/FB-144



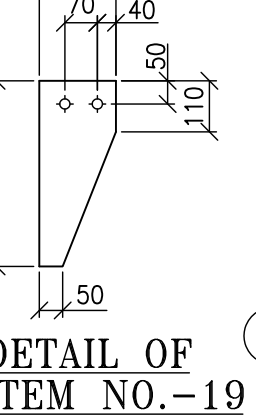
VIEW 8-8

BILL OF MATERIALS									
ERECTION MARK	ITEM NO.	SECTION	LENGTH (mm)	NO. REQD.	UNIT WT. (KG/M. OR KG/M2)	WT. OF ITEM (KG.)	WT. OF EACH ERECTION MARK (KG.)	NO. OF EACH ERECTION MARK REQD.	TOTAL WT. (KG.)
27/FB-131	1	MC 200	5044	1	22.30	112.48			
	2	PL 130x8	407	2	62.80	6.65			
	3	PL 100x10	212	2	78.50	3.33			
	4	PL 100x10	407	2	78.50	6.39			
	5	PL 200x12	230	1	94.20	4.33			
	6	PL 180x12	230	1	94.20	3.90			
	7	PL 75x10	190	3	78.50	3.36			
	8	PL 69x10	184	3	78.50	2.99			
	9	PL 75x10	580	1	78.50	3.41			
	10	PL 160x12	180	2	94.20	5.43			
	11	PL 165x8	200	1	62.80	2.07			
	12	PL 184x8	229	2	62.80	5.29			
	13	PL 165x8	200	1	62.80	2.07			
27/FB-132	14	MC 200	5044	1	22.30	112.48			
	2	PL 130x8	407	2	62.80	6.65			
	3	PL 100x10	212	2	78.50	3.33			
	4	PL 100x10	407	2	78.50	6.39			
	5	PL 200x12	230	1	94.20	4.33			
	6	PL 180x12	230	1	94.20	3.90			
	7	PL 75x10	190	3	78.50	3.36			
	8	PL 69x10	184	3	78.50	2.99			
	9	PL 75x10	580	1	78.50	3.41			
	10	PL 160x12	180	2	94.20	5.43			
	11	PL 165x8	200	1	62.80	2.07			
	12	PL 184x8	229	2	62.80	5.29			
	13	PL 165x8	200	1	62.80	2.07			
27/FB-133	15	MC 200	1927	1	22.30	42.97			
	6	PL 180x12	230	2	94.20	7.80			
27/FB-134	16	MC 400	1927	1	50.10	96.54			
	17	PL 130x12	430	2	94.20	10.53			
	18	L 90x90x8	170	1	10.80	1.84			
	19	PL 165x8	400	1	62.80	4.14			
27/FB-135	20	MC 150	1761.5	1	16.80	29.59			
	21	PL 138x8	229	1	62.80	1.98			
27/FB-136	22	MC 100	1310	1	9.56	12.52			
	23	PL 100x8	165	1	62.80	1.04			
	24	PL 90x8	205	1	62.80	1.16			
	25	MC 100	805	1	9.56	7.70			
27/FB-137	26	MC 100	580	1	9.56	5.54			
	27	MC 100	765	1	9.56	7.31			
27/FB-138	28	PL 200x8	265	1	62.80	3.33			
	29	MC 100	631	1	9.56	6.03			
27/FB-139	30	PL 200x8	260	1	62.80	3.27			
	31	MC 100	437	1	9.56	4.18			
27/FB-140	32	PL 200x8	260	1	62.80	3.27			
	33	PL 165x8	200	1	62.80	2.07			
	34	MC 100	765	1	9.56	7.31			
27/FB-141	35	MC 100	631	1	9.56	6.03			
	36	PL 200x8	260	1	62.80	3.27			
27/FB-142	37	MC 100	437	1	9.56	4.18			
	38	PL 200x8	260	1	62.80	3.27			
	39	PL 165x8	200	1	62.80	2.07			
27/FB-143	40	MC 100	437	1	9.56	4.18			
	41	PL 200x8	260	1	62.80	3.27			
27/FB-144	42	MC 100	437	1	9.56	4.18			
	43	PL 200x8	260	1	62.80	3.27			
TOTAL WEIGHT = 601.53 KGS. = 0.602 MT.									

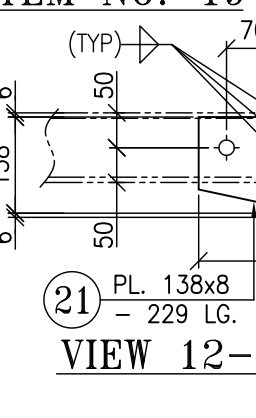
MATERIALS ABSTRACT			
SL. NO.	SECTION	WT. (KGS.)	CODE/GRADE
1	MC 400	96.54	E350 (A/BR), SA/IS:2062
2	MC 200	267.93	E350 (A/BR), SA/IS:2062
3	MC 150	29.59	E350 (A/BR), SA/IS:2062
4	MC 100	60.80	E350 (A/BR), SA/IS:2062
5	L 90x90x8	1.84	E350 (A/BR), SA/IS:2062
6	PLATE 12 THK.	45.65	E350 (BR/BO), SA/IS:2062
7	PLATE 10 THK.	38.96	E350 (BR/BO), SA/IS:2062
8	PLATE 8 THK.	60.22	E350 (BR/BO), SA/IS:2062
TOTAL WEIGHT =		601.53	KGS.



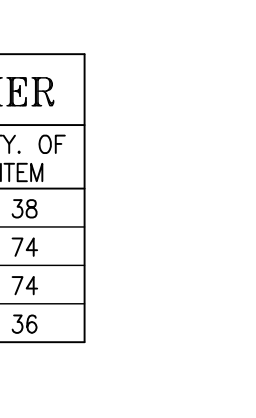
VIEW 4-4 (AS DRN.)



VIEW 4X-4X (AS DRN.)

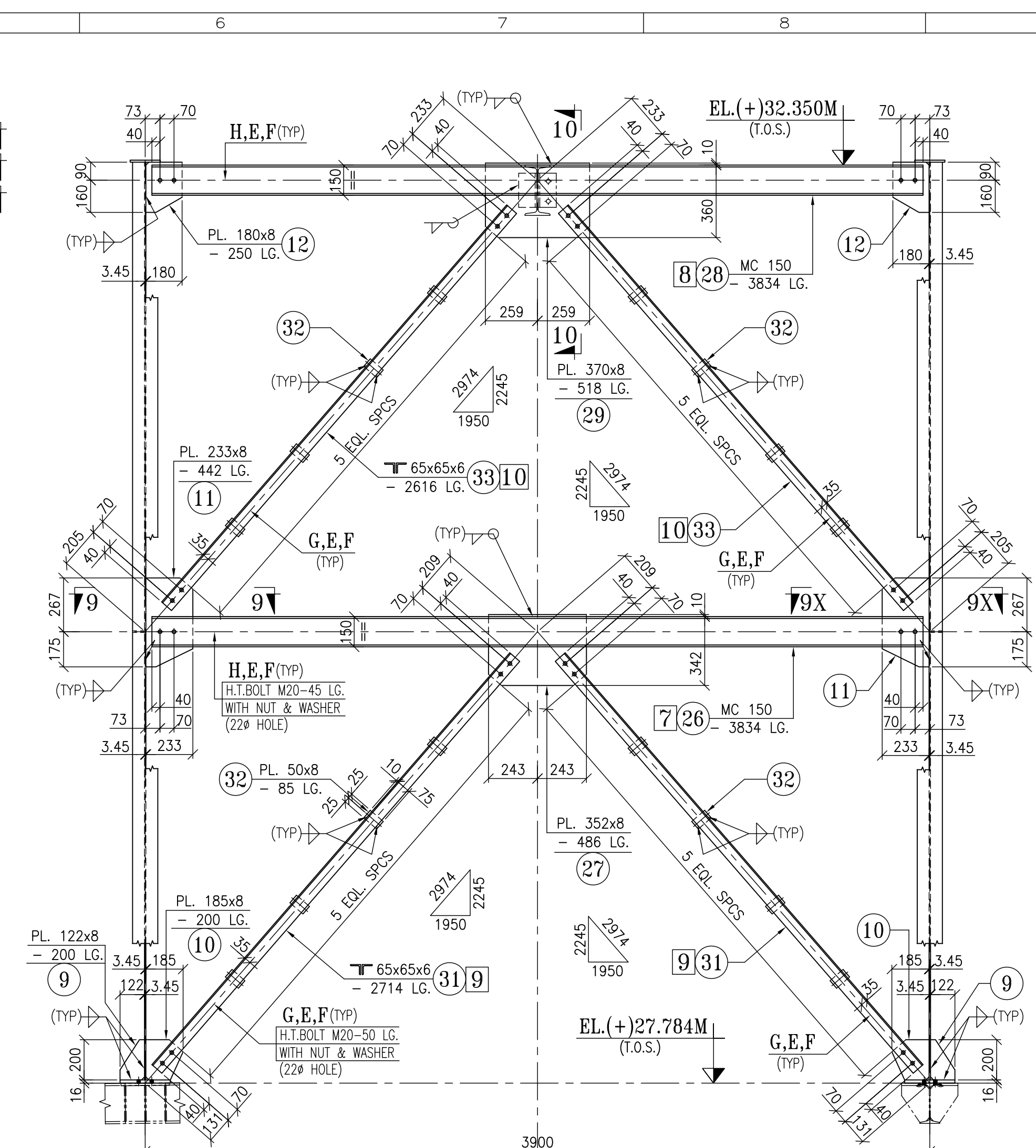


VIEW 6-6

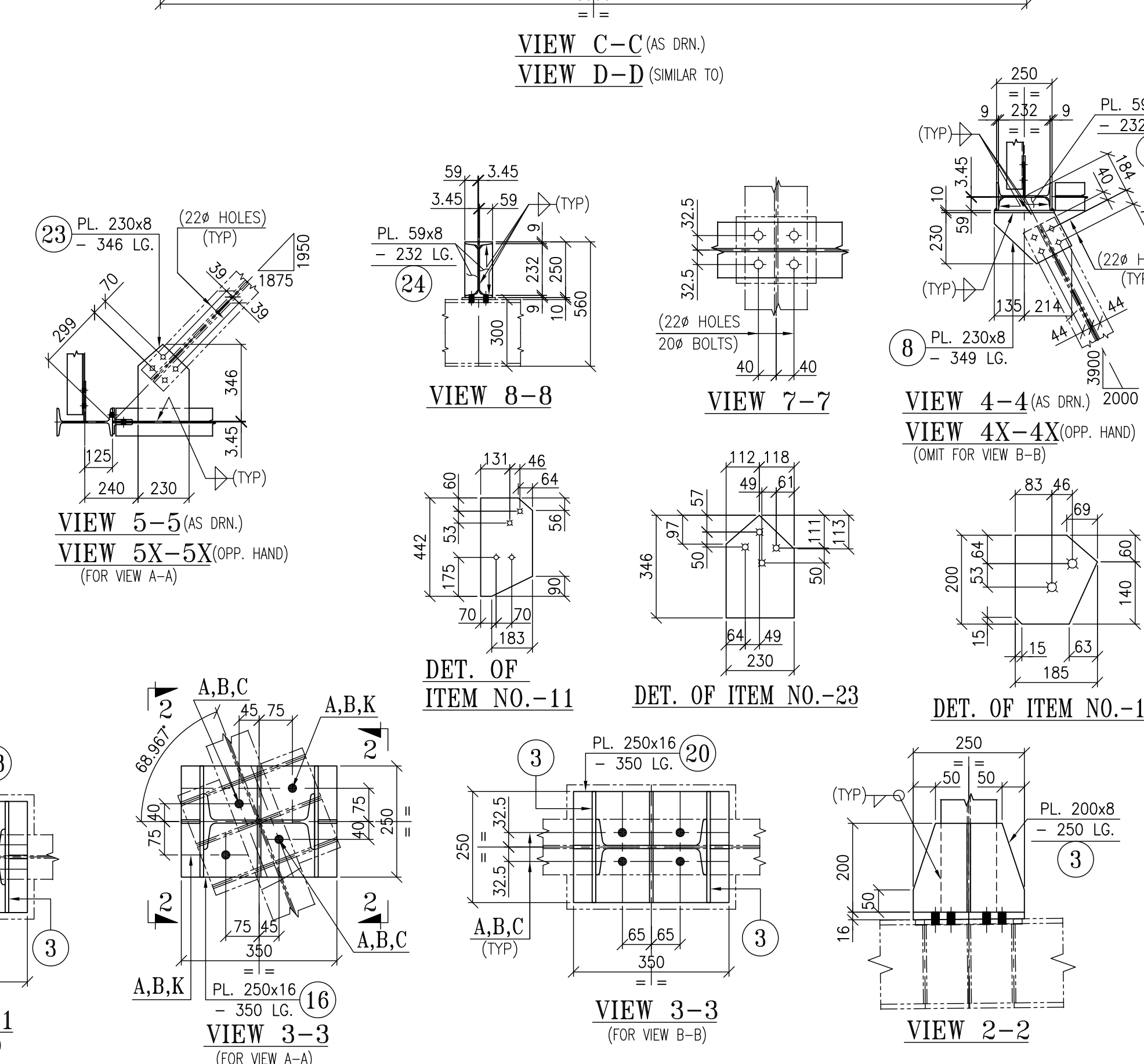


VIEW 5-5





LIST OF BOLT,NUT&WASHER		
ITEM MARK	DESCRIPTION OF ITEM	QTY. OF ITEM
A	H.T. BOLT M16-55 LG.(Gr-8.8)	16
B	NUT FOR M16	16
C	TAPER WASHER FOR M16(MB)	12
D	H.T. BOLT M20-55 LG.(Gr-8.8)	16
E	NUT FOR M20	64
F	WASHER A22	56
G	H.T. BOLT M20-50 LG.(Gr-8.8)	32
H	H.T. BOLT M20-45 LG.(Gr-8.8)	16
J	TAPER WASHER FOR M20(MB)	8



NOTES:-

1. ALL DIMENSIONS ARE IN m.m. AND LEVELS ARE IN METER.
2. ALL WELDS ARE MINIMUM 6m.m LEG SIZE CONTINUOUS FILLET (U.O.N)
3. ALL PERMANENT BOLT HOLES ARE 22φ FOR M20 H.T. BOLTS (GR.8.8)(U.N.O.)
4. ALL PERMANENT BOLTS SHOWN THUS-----φ
5. ALL BUTT WELDS ARE FULL PENETRATION AND TO ACHIEVE FULL STRENGTH.
6. THIS DRAWING IN NOT BE SCALED, ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED.
7. IN CASE OF ANY DOUBT SEEK CLARIFICATION BEFORE COMMENCING JOB.
8. THIS DRG. HAS BEEN PREPARED BASED ON BASIC DESIGN DRG. NO. Maltree-00-UET-L-177408-ISO-1
9. FOR OTHER NOTES REF. DRG. NO. 19611010001
10. FOR MARKING REF. DRG. NO. 19611010001
11. ALL INCLINED MEMBERS & SIZE OF GUSSET PLATE ARE TO BE CHECKED AND VERIFIED FROM ACTUAL FULL SCALE LAYOUT.
12. MEMBER ANY OTHER



DET. OF ITEM NO. 149



DET. OF ITEM NO. 151

DET. OF ITEM NO. 152



DET. OF ITEM NO. 154



DET. OF ITEM NO. 150

MATERIALS ABSTRACT			
SL. NO.	SECTION	WT. (KGS.)	CODE, GRADE
1	CHQD. PL. 6 0/P	3848.59	IS:3502
2	L 65x65x6	816.90	E350 (A/BR), SA/IS:2062
3	GRT. 40 THK.	30.29	E350 (A/BR), SA/IS:2062
TOTAL WEIGHT =		4695.78	KGS.

CUSTOMER CONSULTANT: FICHTNER M/s FICHTNER GmbH & Co KG, Stuttgart, GERMANY		CUSTOMER/PROJECT:  BANGLADESH-INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGLADESH 2x660 MW MAITREE STPP, RAMPAL, BANGLADESH																	
 भारत हेवी इलेक्ट्रिकल्स लिमिटेड हैदराबाद BHARAT HEAVY ELECTRICALS LTD. HYDERABAD		<table border="1"> <thead> <tr> <th></th> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DRN.</td> <td>KARTHIK</td> <td></td> <td>23.09.19</td> </tr> <tr> <td>CHD.</td> <td>SAMPATH</td> <td></td> <td></td> </tr> <tr> <td>APPD.</td> <td>SCJ</td> <td></td> <td></td> </tr> </tbody> </table>			NAME	SIGNATURE	DATE	DRN.	KARTHIK		23.09.19	CHD.	SAMPATH			APPD.	SCJ		
	NAME	SIGNATURE	DATE																
DRN.	KARTHIK		23.09.19																
CHD.	SAMPATH																		
APPD.	SCJ																		
DEPT. OR CODE 4430		SCALE OR	WEIGHT (KG) NTS																
TITLE FLY ASH INTERMEDIATE SILO 1 & 2 DETAIL OF CHOD. PL. AT EL (+327.784M (T.O.SILO))		REF. TO ASSY DRG. ITEM NO. 																	
		DRAWING NO. 1-96110-1-0079																	
		REV. 00																	

7. IN CASE OF ANY DOUBT SEEK CLARIFICATION BEFORE COMMENCING JOB.
8. THIS DRG. HAS BEEN PREPARED BASED ON BASIC DESIGN DRG.
No. Maitree-00-UT-LC-177408-IG-S
9. FOR OTHER NOTES REF. DRG. NO. 19611010001
10. FOR MARKING REF. DRG. NO. 19611010001
11. ALL INCLINED MEMBERS & SIZE OF GUSSET PLATE ARE TO BE
CHECKED AND VERIFIED FROM ACTUAL FULL SCALE LAYOUT.

7. IN CASE OF ANY DOUBT SEEK CLARIFICATION BEFORE COMMENCING JOB.
8. THIS DRG. HAS BEEN PREPARED BASED ON BASIC DESIGN DRG.
No. Maitree-00-UT-LC-177408-IG-S-1
9. FOR OTHER NOTES REF. DRG. NO. 19611010001
10. FOR MARKING REF. DRG. NO. 19611010001
11. ALL INCLINED MEMBERS & SIZE OF GUSSET PLATE ARE TO BE
CHECKED AND VERIFIED FROM ACTUAL FULL SCALE LAYOUT.

12. MEMBER TO BE SUITABLY NOTCHED AT SITE TO SUIT ANY OBSTRUCTION WHILE LAYING.

DESCRIPTION/NOTE

A

B

C

D

E

F

G

H

I

A

B

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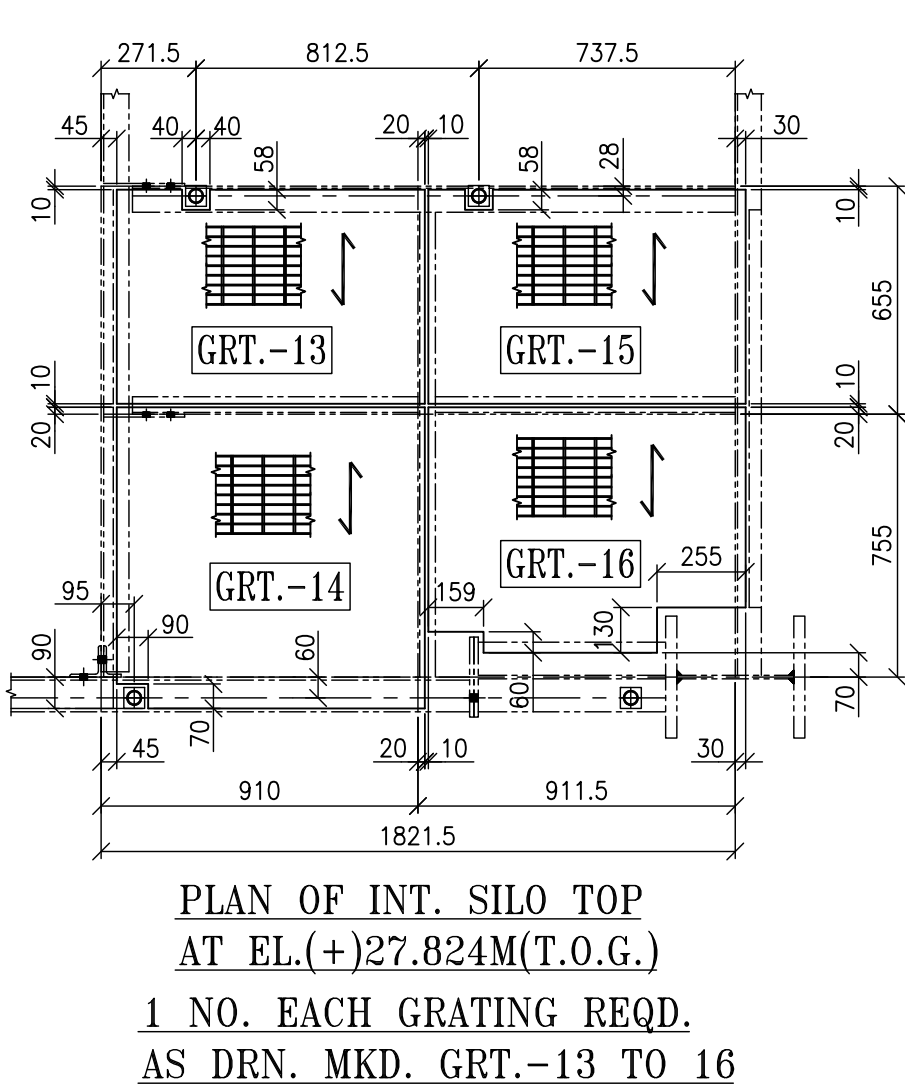
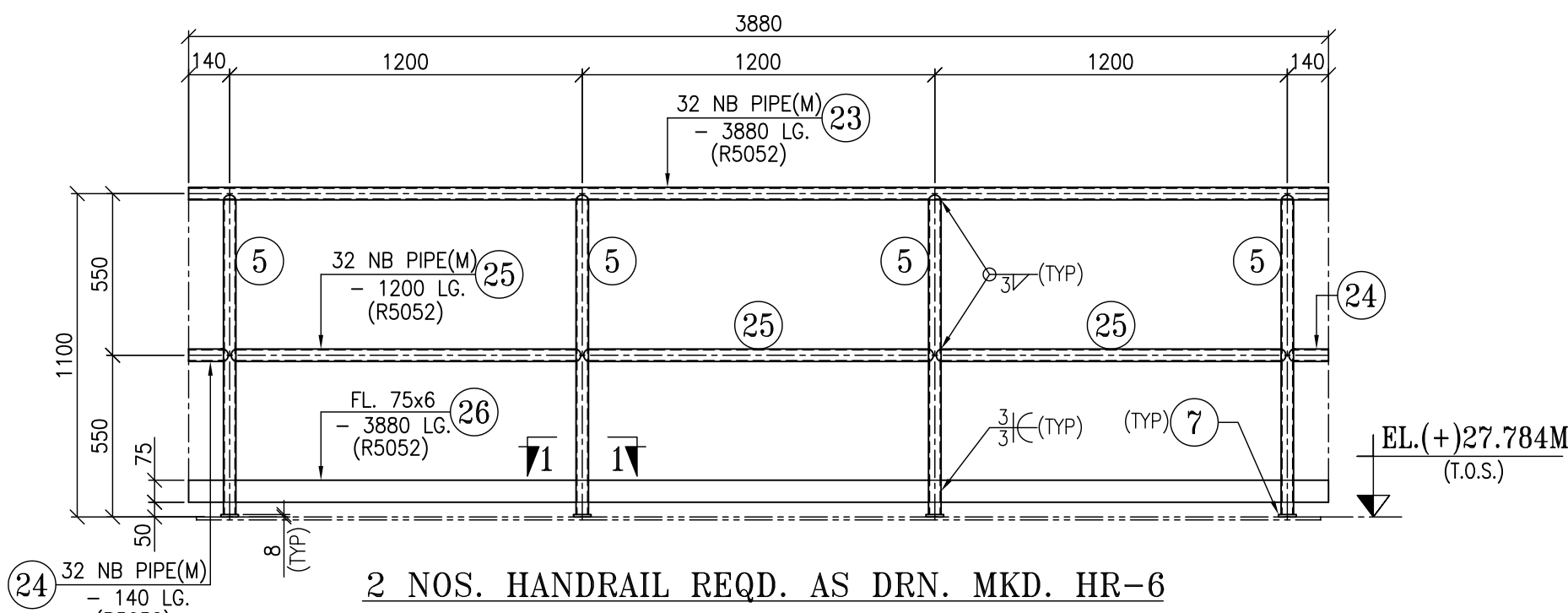
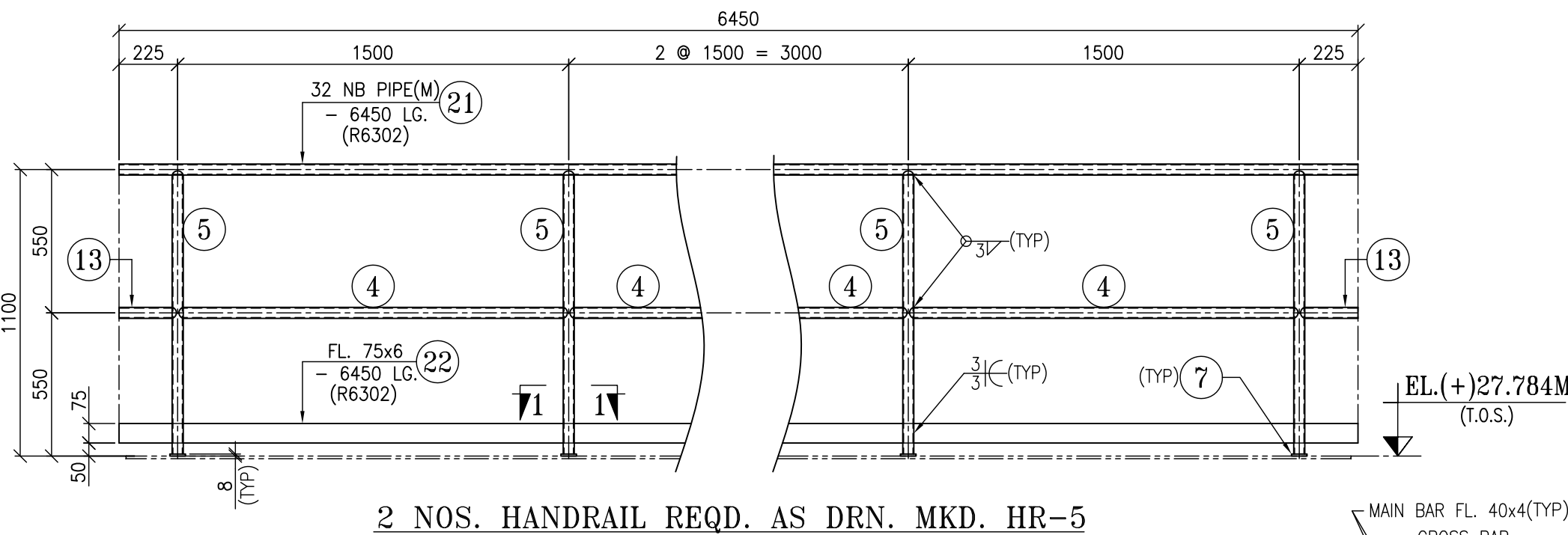
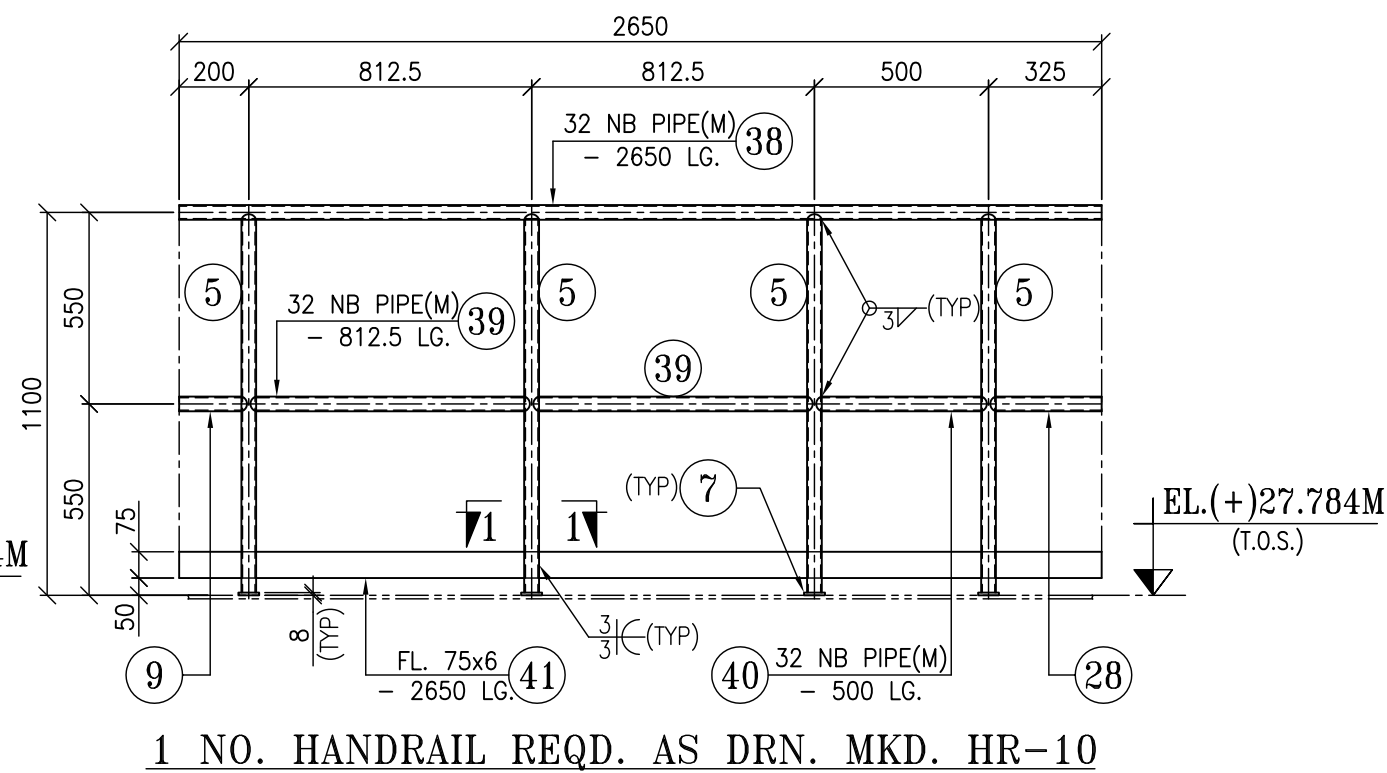
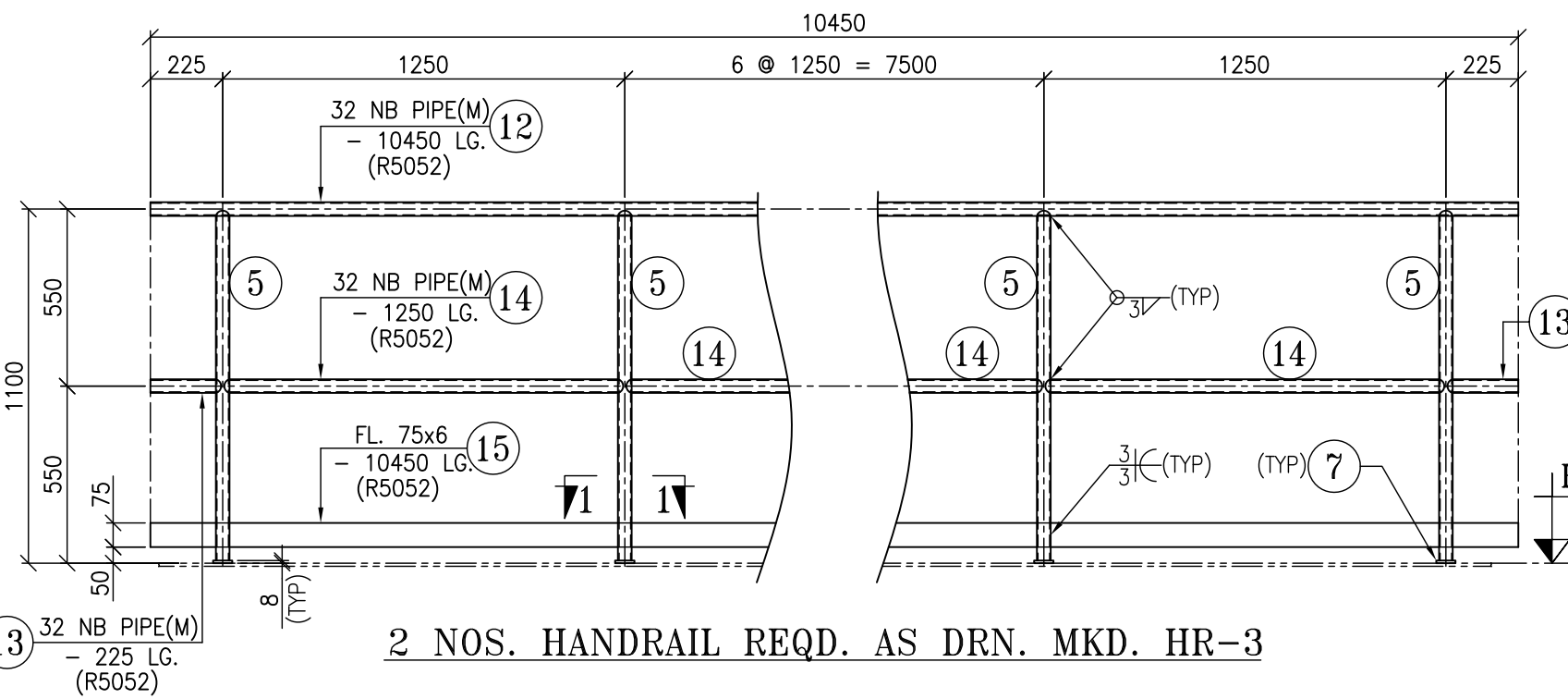
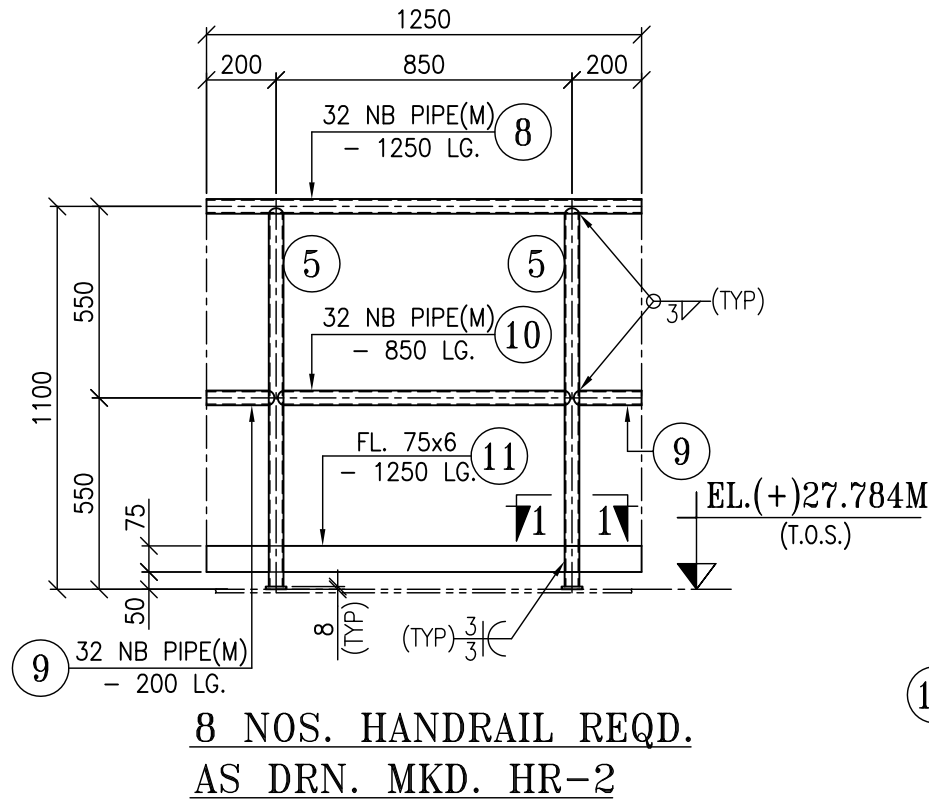
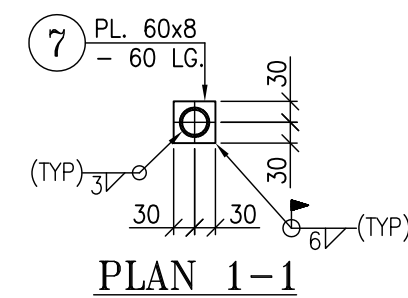
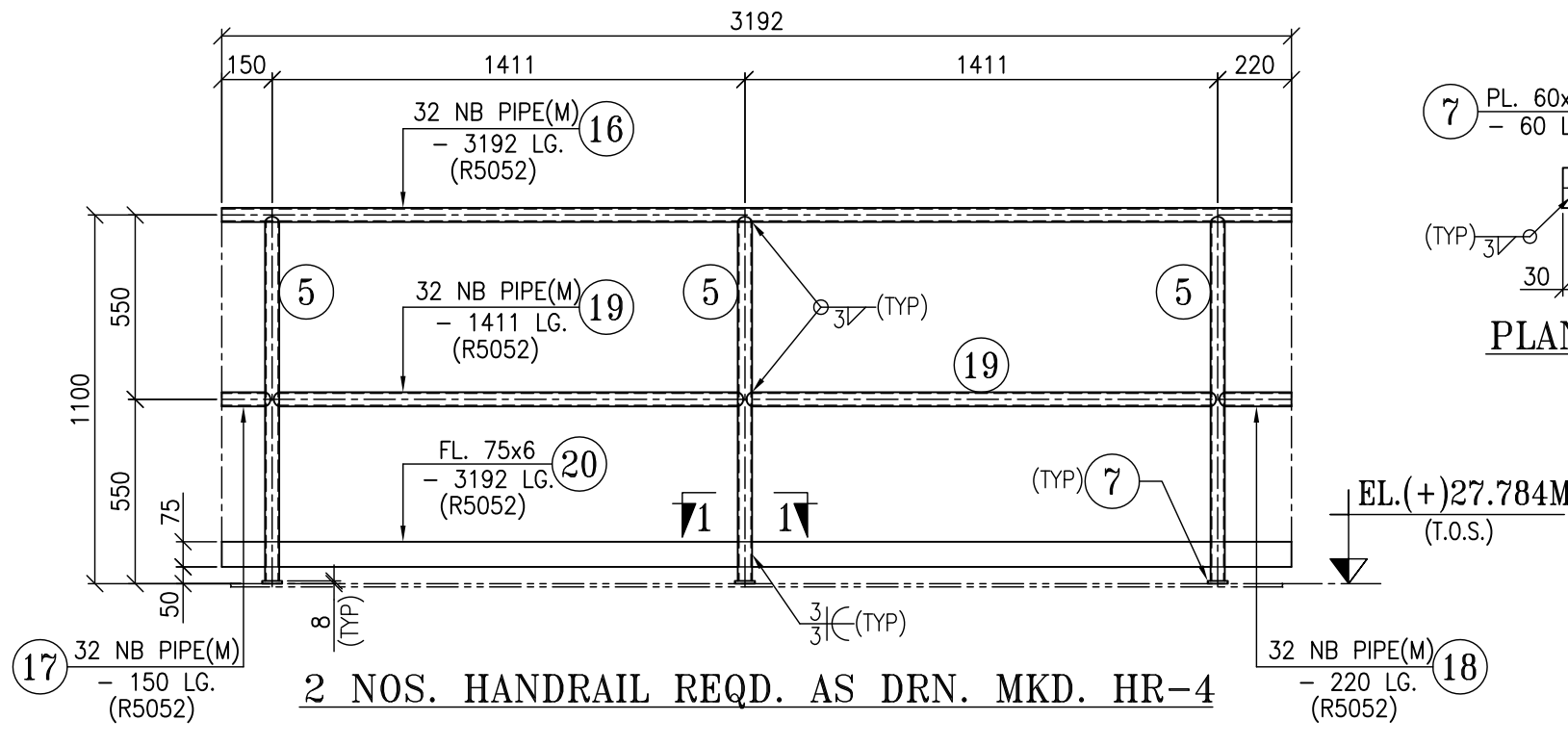
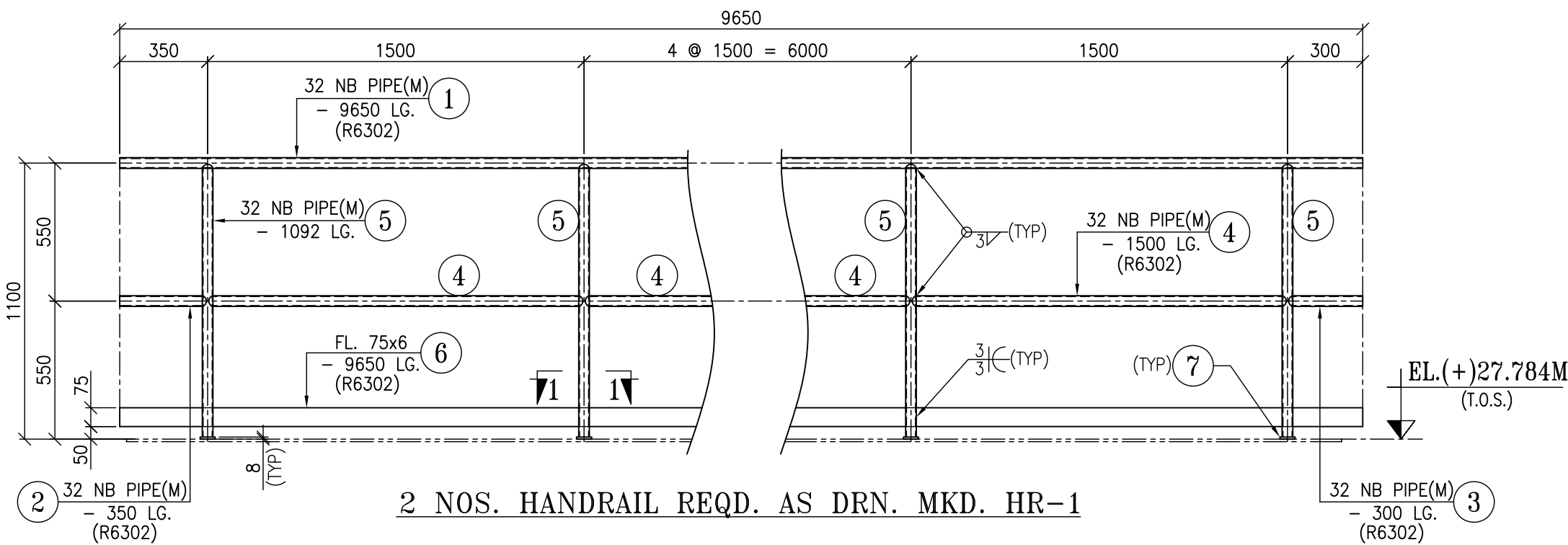
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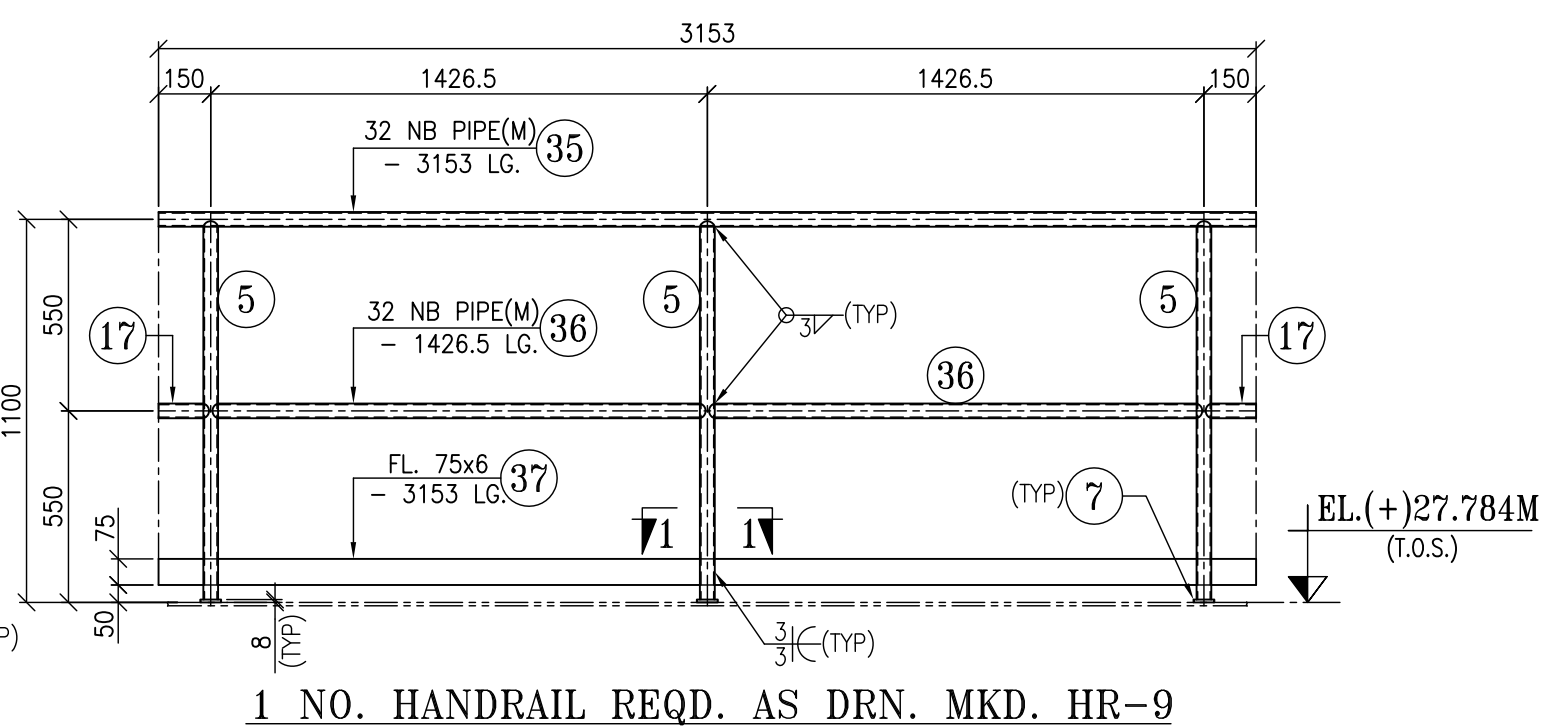
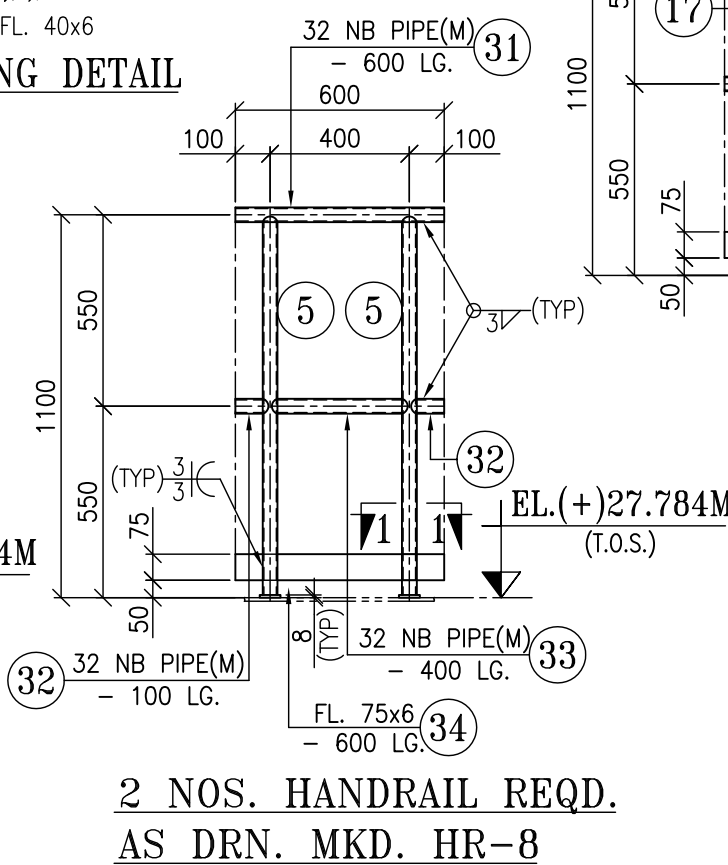
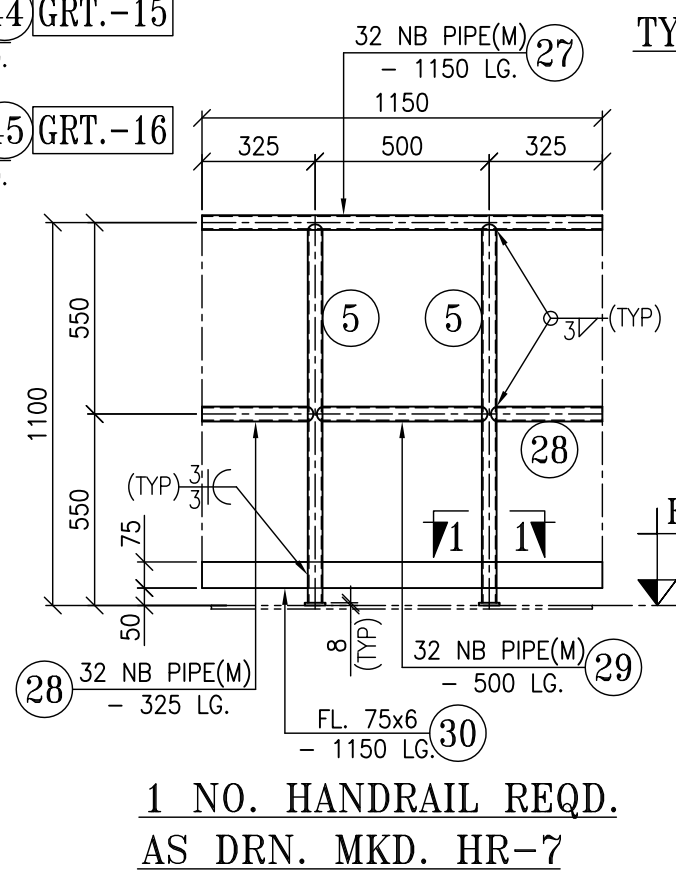
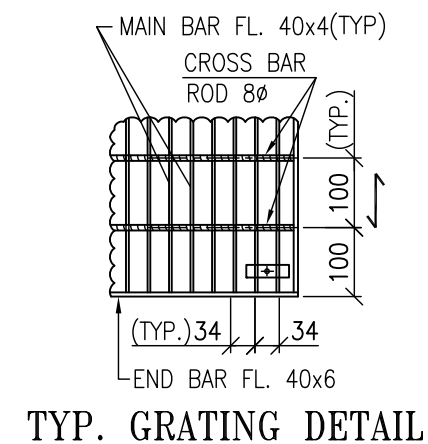
G

H

I



GRT.-13	GRT.-13
GRT.-14	GRT.-14
GRT.-15	GRT.-15
GRT.-16	GRT.-16



SL. NO.	SECTION	WT. (KGS.)	CODE, GRADE
1	32 NB PIPE(M)	817.41	IS:1161
2	FL. 75x6	301.44	E350 (A/BR), SA/IS:2062
3	GRT. 40 THK.	115.44	E350 (A/BR), SA/IS:2062
4	PLATE 8 THK.	19.17	E350 (BR/BO), SA/IS:2062
TOTAL WEIGHT =		1253.46	KGS.

BILL OF MATERIALS										
ERECTION MARK	ITEM NO.	ITEM DESCRIPTION	LENGTH (MM)	NO. REQD.	UNIT WT. (KG/MR. KGM2)	WT. OF ITEM (KG.)	WT. OF EACH ERECTION MARK (KG.)	NO. OF EACH ERECTION MARK REQUIRED	TOTAL WT. (KG.)	REMARKS
HR-1	1	32 NB PIPE(M)	9650	1	3.10	29.92				
	2	32 NB PIPE(M)	350	1	3.10	1.09				
	3	32 NB PIPE(M)	300	1	3.10	0.93				
	4	32 NB PIPE(M)	1500	6	3.10	27.90				
	5	32 NB PIPE(M)	1092	7	3.10	23.70				
	6	FL 75x6	9650	1	3.53	34.06				
	7	PL60x8	60	7	62.80	1.58				
HR-2	8	32 NB PIPE(M)	1250	1	3.10	3.88		119.18	2	238.36
	9	32 NB PIPE(M)	200	2	3.10	1.24				
	10	32 NB PIPE(M)	850	1	3.10	2.64				
	5	32 NB PIPE(M)	1092	2	3.10	6.77				
	11	FL 75x6	1250	1	3.53	4.41				
	7	PL60x8	60	2	62.80	0.45				
							19.39	8	155.12	
HR-3	12	32 NB PIPE(M)	10450	1	3.10	32.40				
	13	32 NB PIPE(M)	225	2	3.10	1.40				
	14	32 NB PIPE(M)	1250	8	3.10	31.00				
	5	32 NB PIPE(M)	1092	9	3.10	30.47				
	15	FL 75x6	10450	1	3.53	36.89				
	7	PL60x8	60	9	62.80	2.03				
							134.19	2	268.38	
HR-4	16	32 NB PIPE(M)	3192	1	3.10	9.90				
	17	32 NB PIPE(M)	150	1	3.10	0.47				
	18	32 NB PIPE(M)	220	1	3.10	0.68				
	19	32 NB PIPE(M)	1411	2	3.10	8.75				
	5	32 NB PIPE(M)	1092	3	3.10	10.16				
	20	FL 75x6	3192	1	3.53	11.27				
	7	PL60x8	60	3	62.80	0.68				
HR-5	21	32 NB PIPE(M)	6450	1	3.10	20.00		41.91	2	83.82
	13	32 NB PIPE(M)	225	2	3.10	1.40				
	4	32 NB PIPE(M)	1500	4	3.10	18.60				
	5	32 NB PIPE(M)	1092	5	3.10	16.93				
	22	FL 75x6	6450	1	3.53	22.77				
	7	PL60x8	60	5	62.80	1.13				
							80.83	2	161.66	
HR-6	23	32 NB PIPE(M)	3880	1	3.10	12.03				
	24	32 NB PIPE(M)	140	2	3.10	0.87				
	25	32 NB PIPE(M)	1200	3	3.10	11.16				
	5	32 NB PIPE(M)	1092	4	3.10	13.54				
	26	FL 75x6	3880	1	3.53	13.70				
	7	PL60x8	60	4	62.80	0.90				
							52.20	2	104.40	
HR-7	27	32 NB PIPE(M)	1150	1	3.10	3.57				
	28	32 NB PIPE(M)	325	2	3.10	2.02				
	29	32 NB PIPE(M)	500	1	3.10	1.55				
	5	32 NB PIPE(M)	1092	2	3.10	6.77				
	30	FL 75x6	1150	1	3.53	4.06				
	7	PL60x8	60	2	62.80	0.45				
							18.42	1	18.42	
HR-8	31	32 NB PIPE(M)	600	1	3.10	1.86				
	32	32 NB PIPE(M)	100	2	3.10	0.62				
	33	32 NB PIPE(M)	400	1	3.10	1.24				
	5	32 NB PIPE(M)	1092	2	3.10	6.77				
	34	FL 75x6	600	1	3.53	2.12				
	7	PL60x8	60	2	62.80	0.45				
							13.06	2	26.12	
HR-9	35	32 NB PIPE(M)	3153	1	3.10	9.77				
	17	32 NB PIPE(M)	150	2	3.10	0.93				
	36	32 NB PIPE(M)	1426.5	2	3.10	8.84				
	5	32 NB PIPE(M)	1092	3	3.10	10.16				
	37	FL 75x6	3153	1	3.53	11.13				
	7	PL60x8	60	3	62.80	0.68				
							41.51	1	41.51	
HR-10	38	32 NB PIPE(M)	2650	1	3.10	8.22				
	9	32 NB PIPE(M)	200	1	3.10	0.62				
	28	32 NB PIPE(M)	325	1	3.10	1.01				
	39	32 NB PIPE(M)	812.5	2	3.10	5.04				
	40	32 NB PIPE(M)	500	1	3.10	1.55				
	5	32 NB PIPE(M)	1092	4	3.10	13.54				
	41	FL 75x6	2650	1	3.53	9.35				
GRT-13	7	PL60x8	60	4	62.80	0.90				
							40.23	1	40.23	
	42	GRT.615x40 THK.	885	1	47.03	25.38				AREA(SQM)= 0.5396
	43	GRT.865x40 THK.	885	1	47.03	35.71		25.38	1	25.38
							35.71	1	35.71	AREA(SQM)= 0.7592
GRT-15	44	GRT.615x40 THK.	911.5	1	47.03	26.14				AREA(SQM)= 0.5559
GRT-16	45	GRT.705x40 THK.	911.5	1	47.03	28.21		26.14	1	26.14
							28.21	1	28.21	AREA(SQM)= 0.5999
TOTAL WEIGHT = 1253.46 KGS. = 1.253MT.										

CUSTOMER CONSULTANT:
FICHTNER
M/s FICHTNER GmbH & Co KG, Stuttgart, GERMANY

CUSTOMER/PROJECT:
BANGLADESH-INDIA FRIENDSHIP POWER COMPANY PVT. LTD, DHAKA, BANGLADESH
2x660 MW MAITREE STPP, RAMPAL, BANGLADESH

भारत भारी इलेक्ट्रिकल्स लिमिटेड
HYDERABAD

NAME	SIGNATURE	DATE
DRN. KARTHIK		23.09.19
CHD. SAMPATH		
APPD. SCJ		

DEPT. OR
CODE 4430

SCALE
OR

WEIGHT (KG)
NTS

REF. TO ASSY DRG.

ITEM NO.

NO. OF ITEMS

TITLE
FLY ASH INTERMEDIATE SILO 1 & 2
DETAIL OF HANDRAILS AT EL.(+)27.784M (T.O.SILO)

DRAWING NO.
1-96110-1-0080

REV.
00

SHEET NO. 02

NO OF SHEETS 02

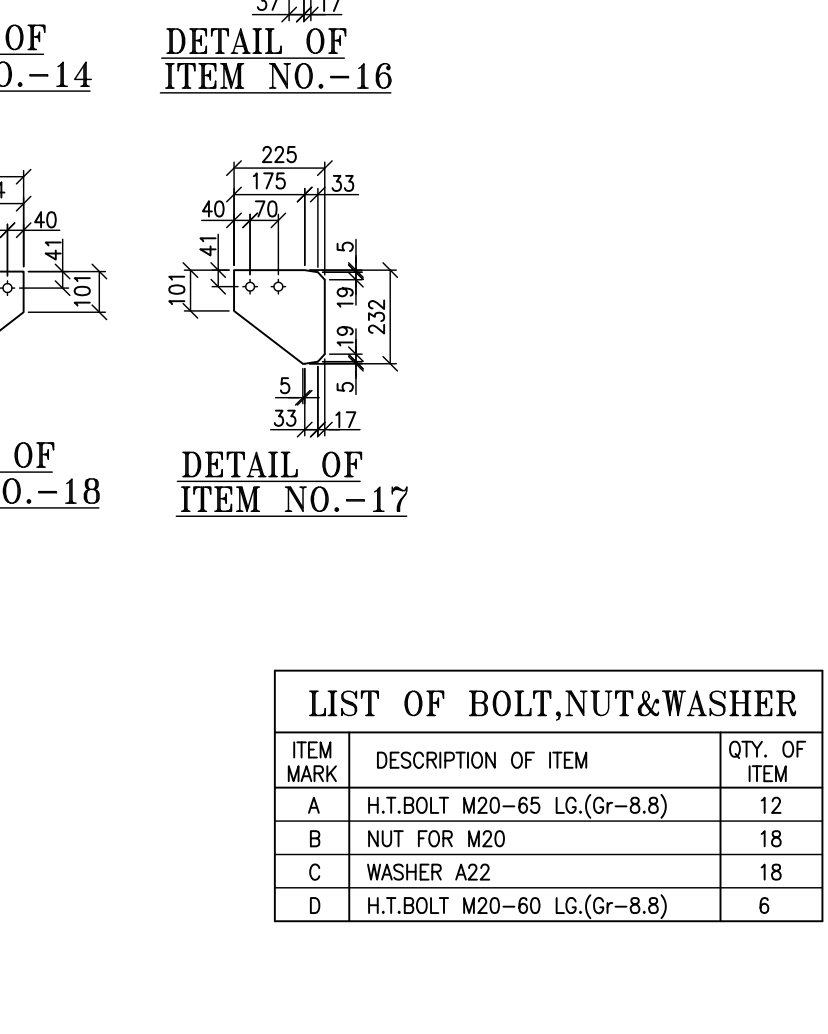
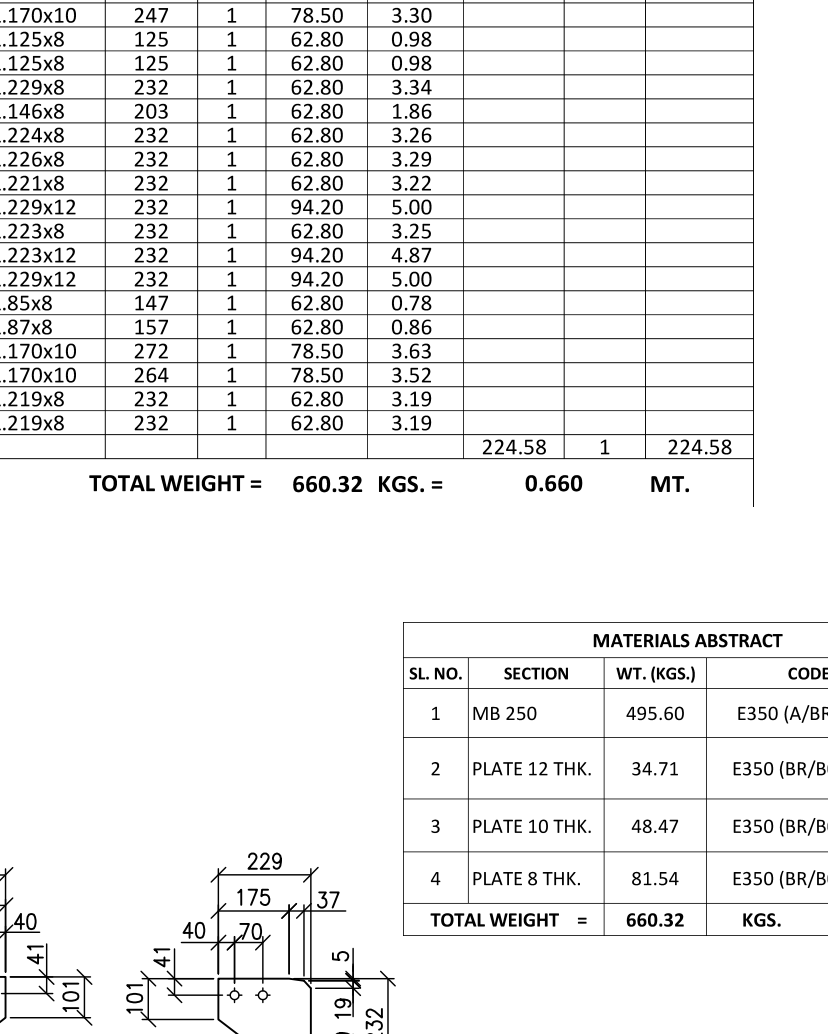
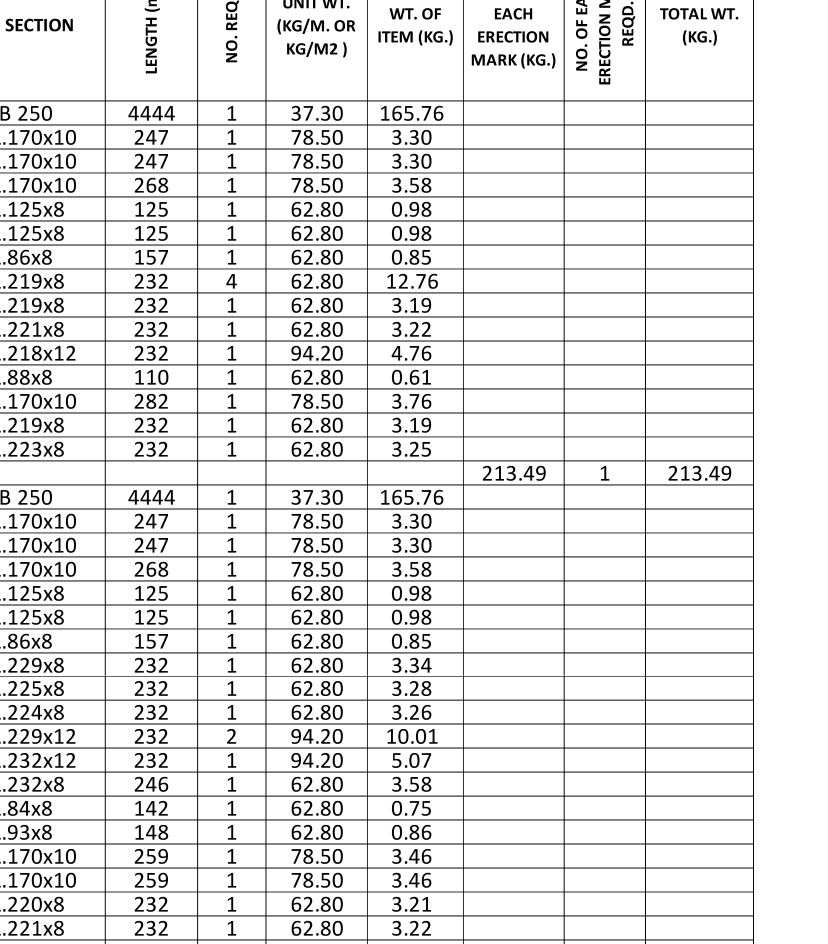
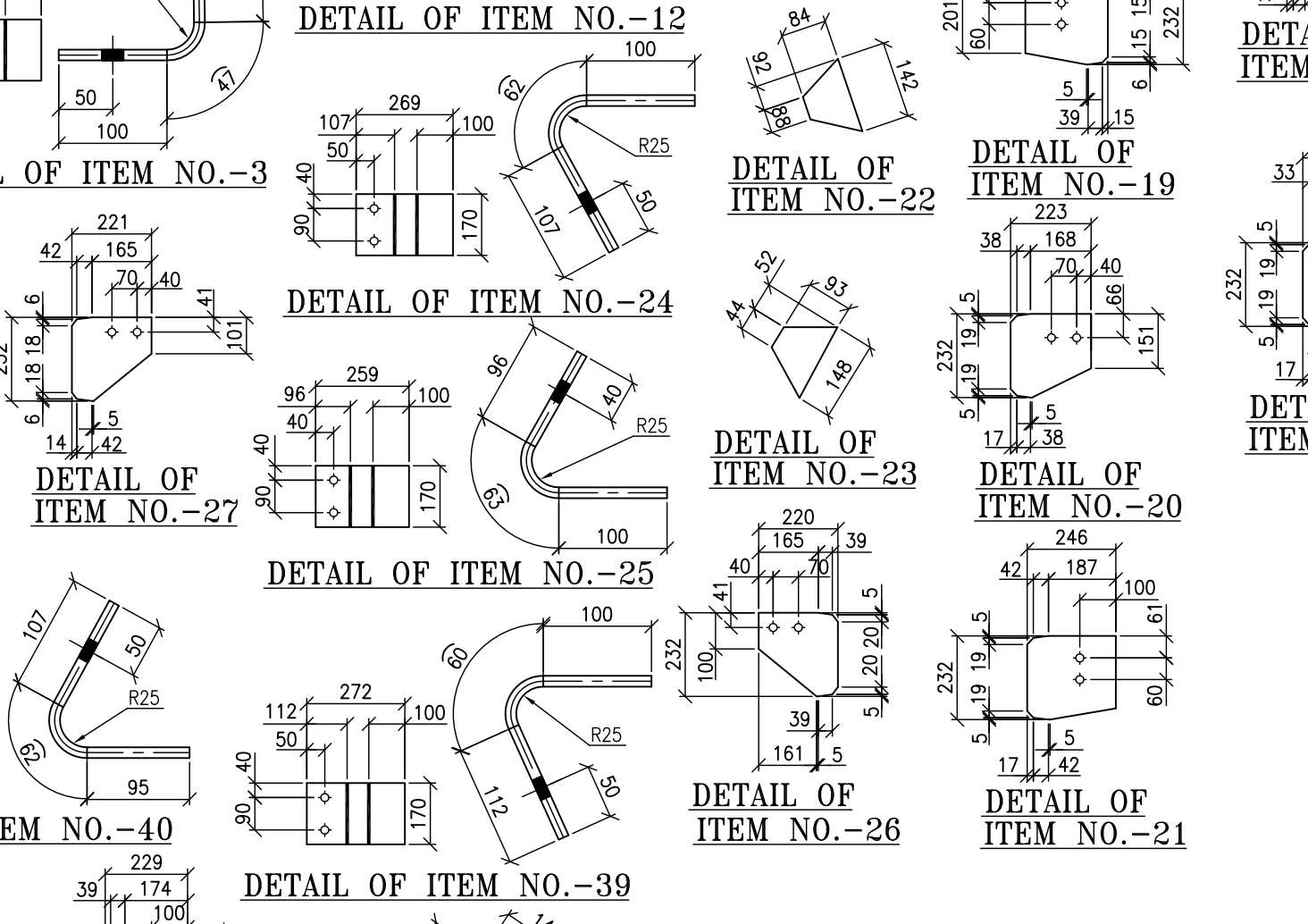
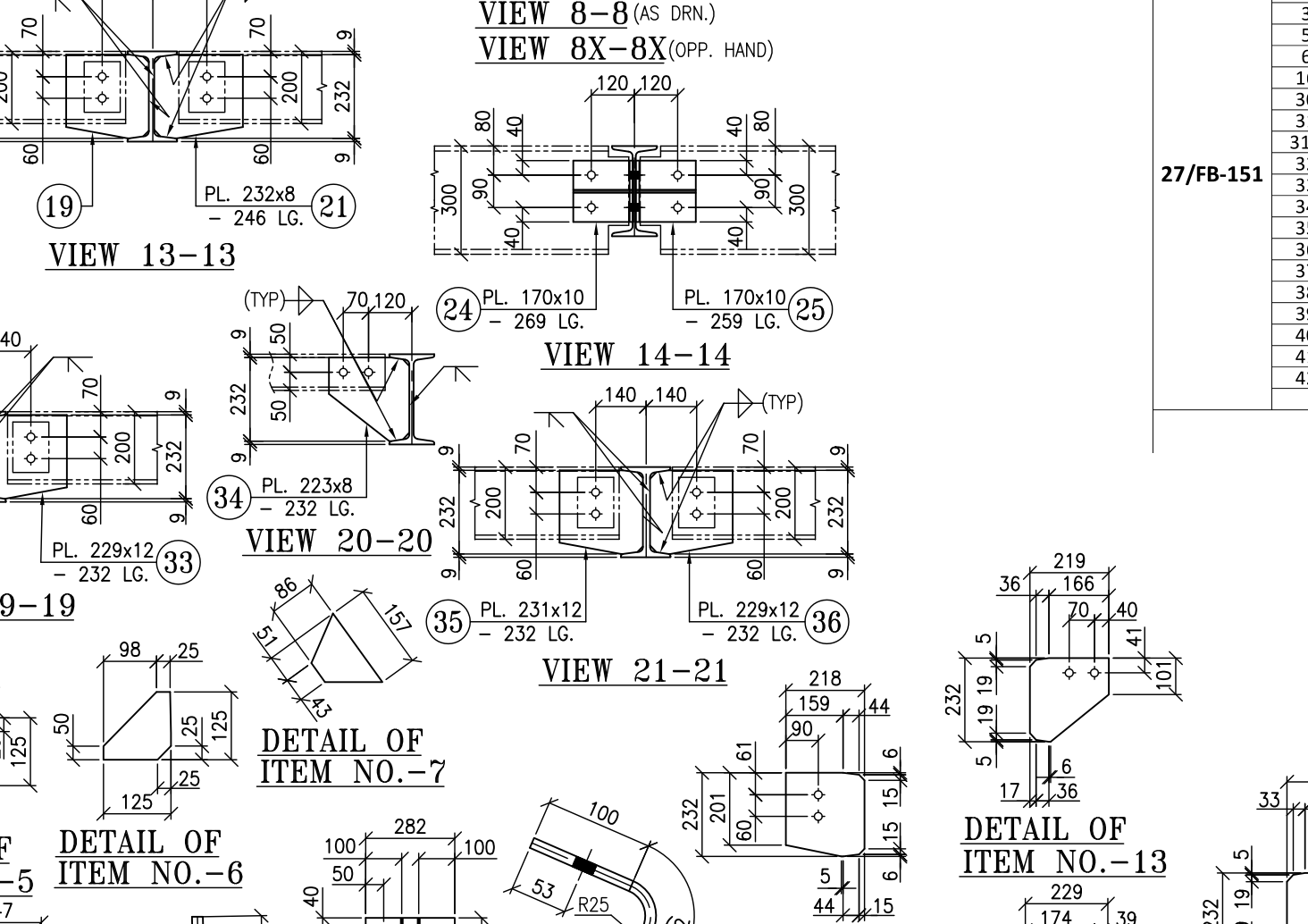
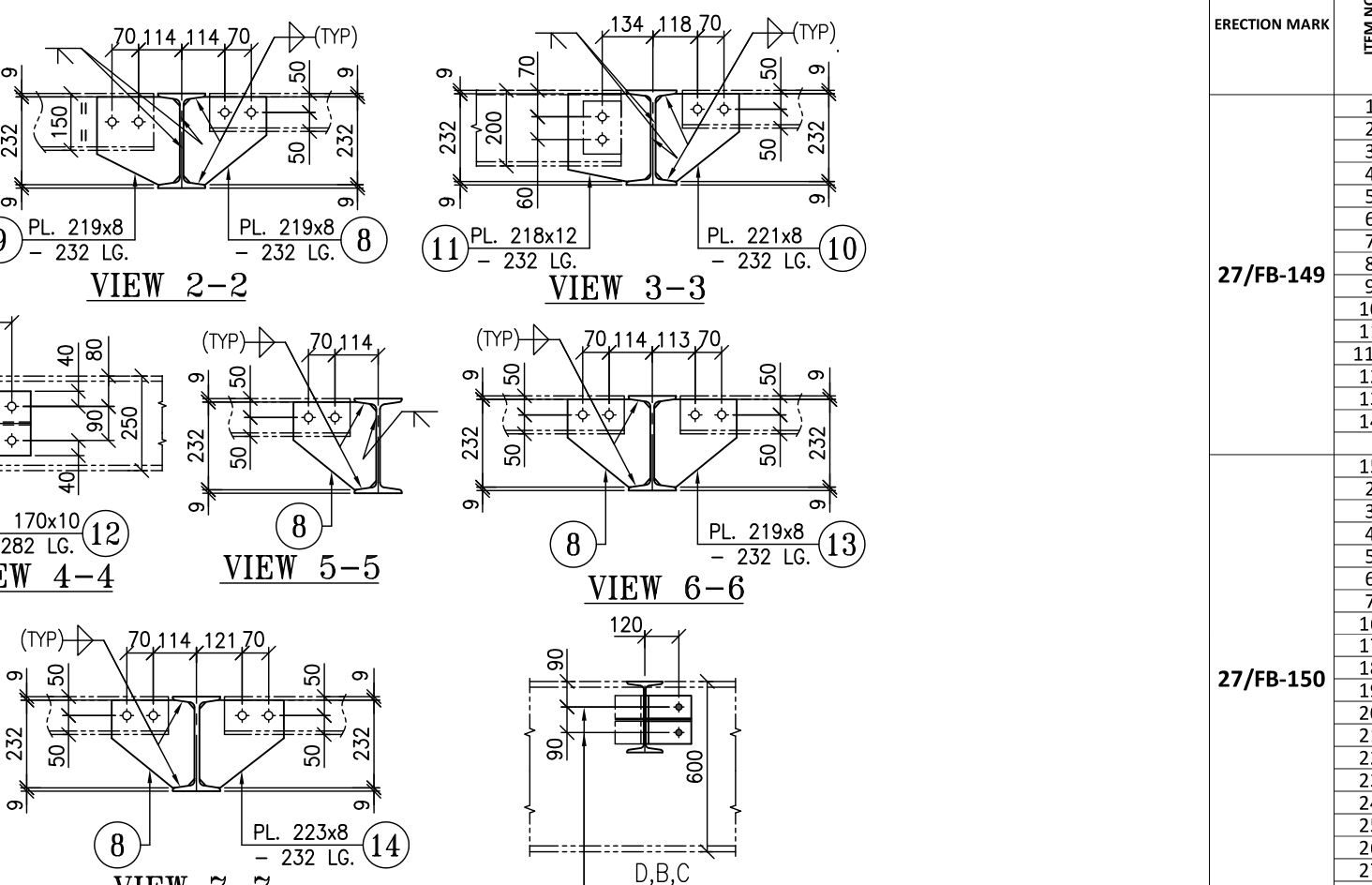
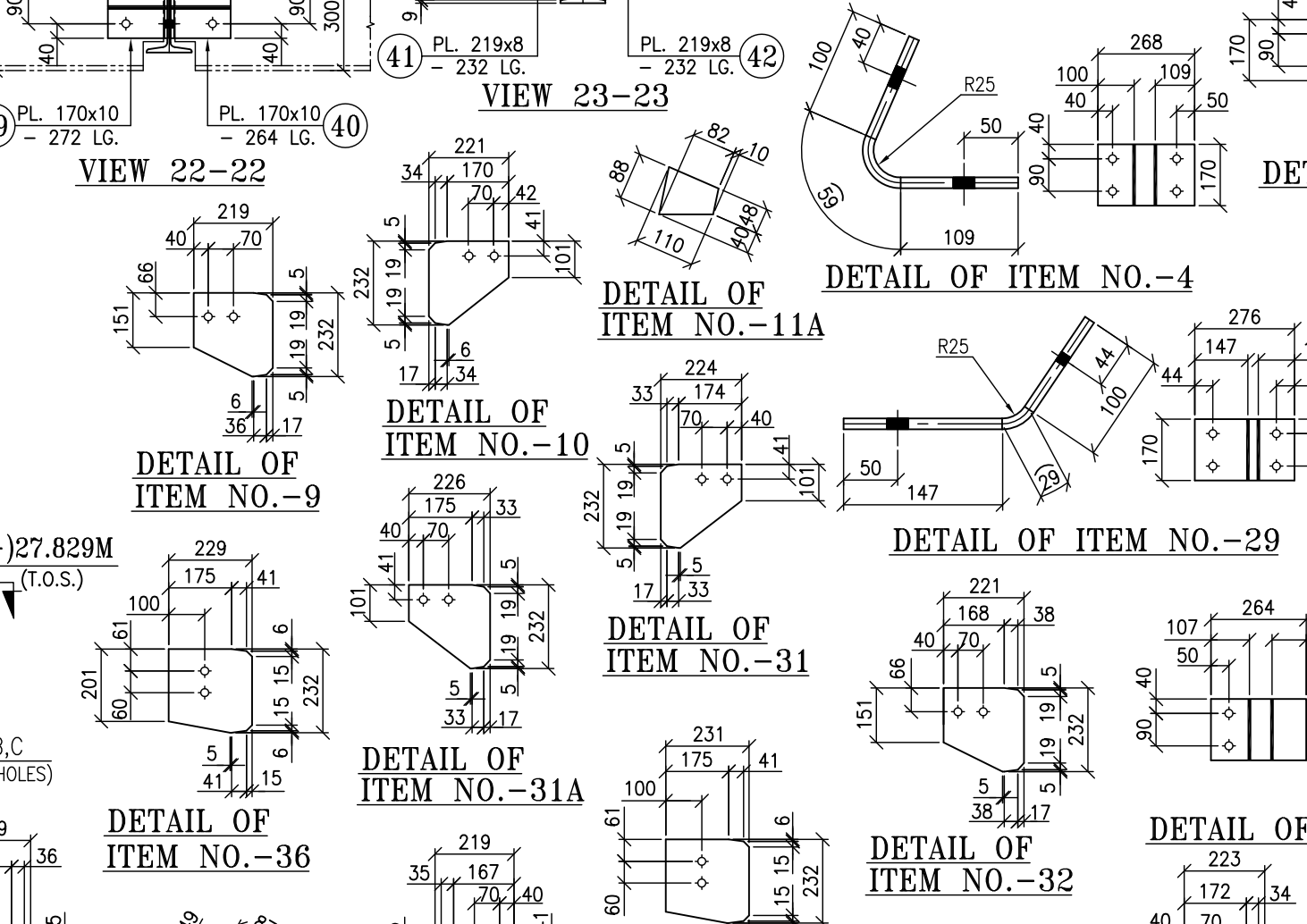
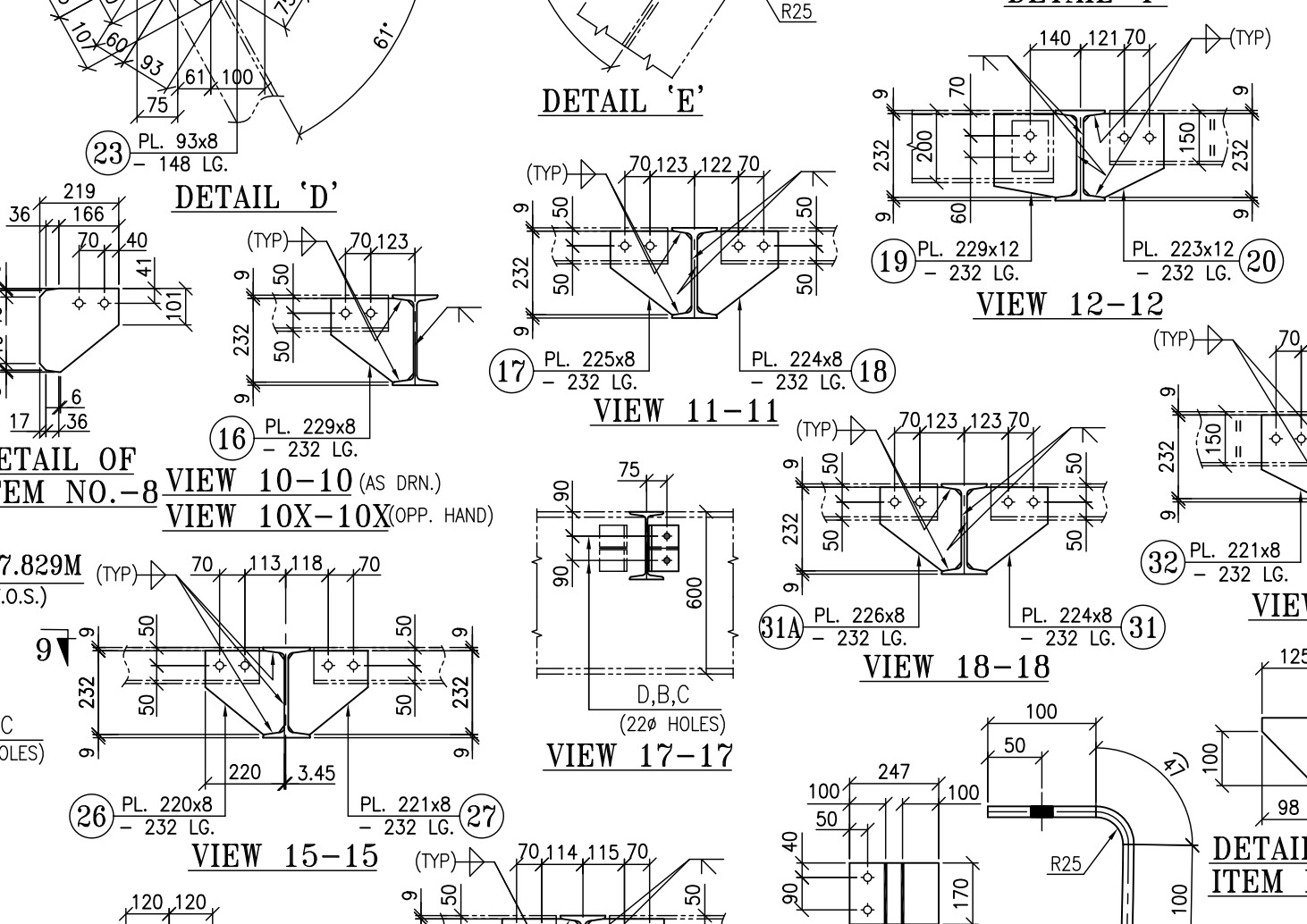
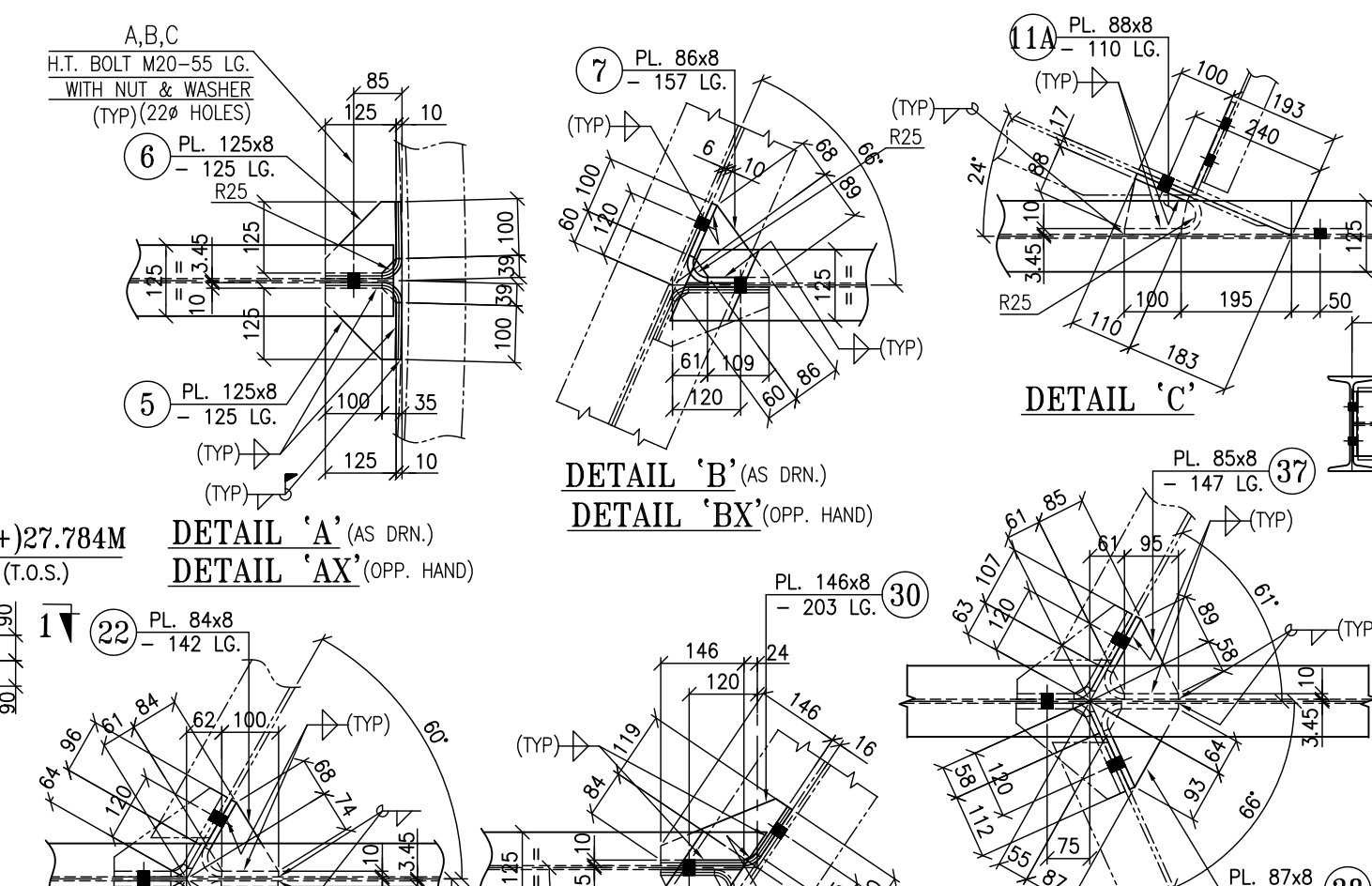
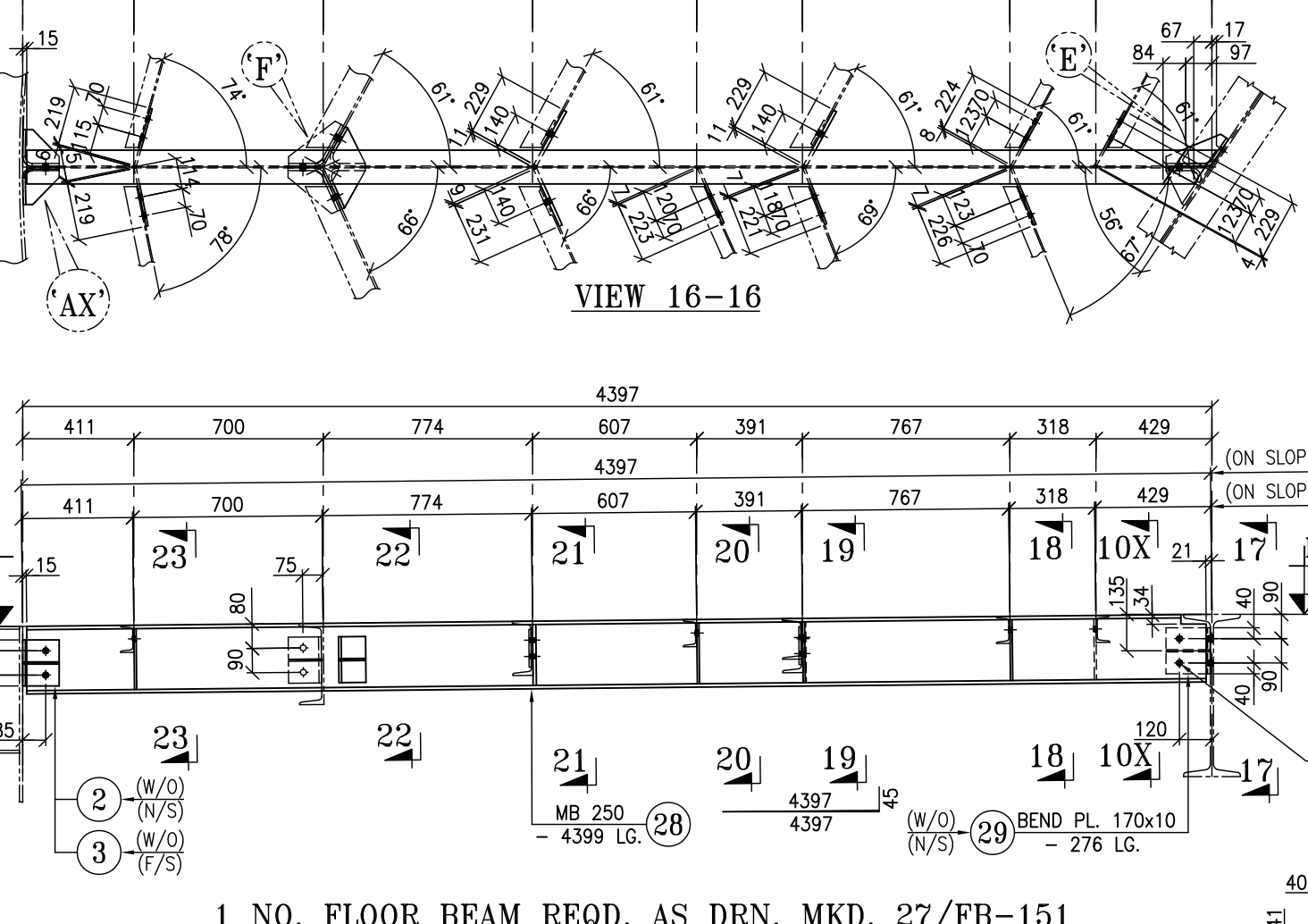
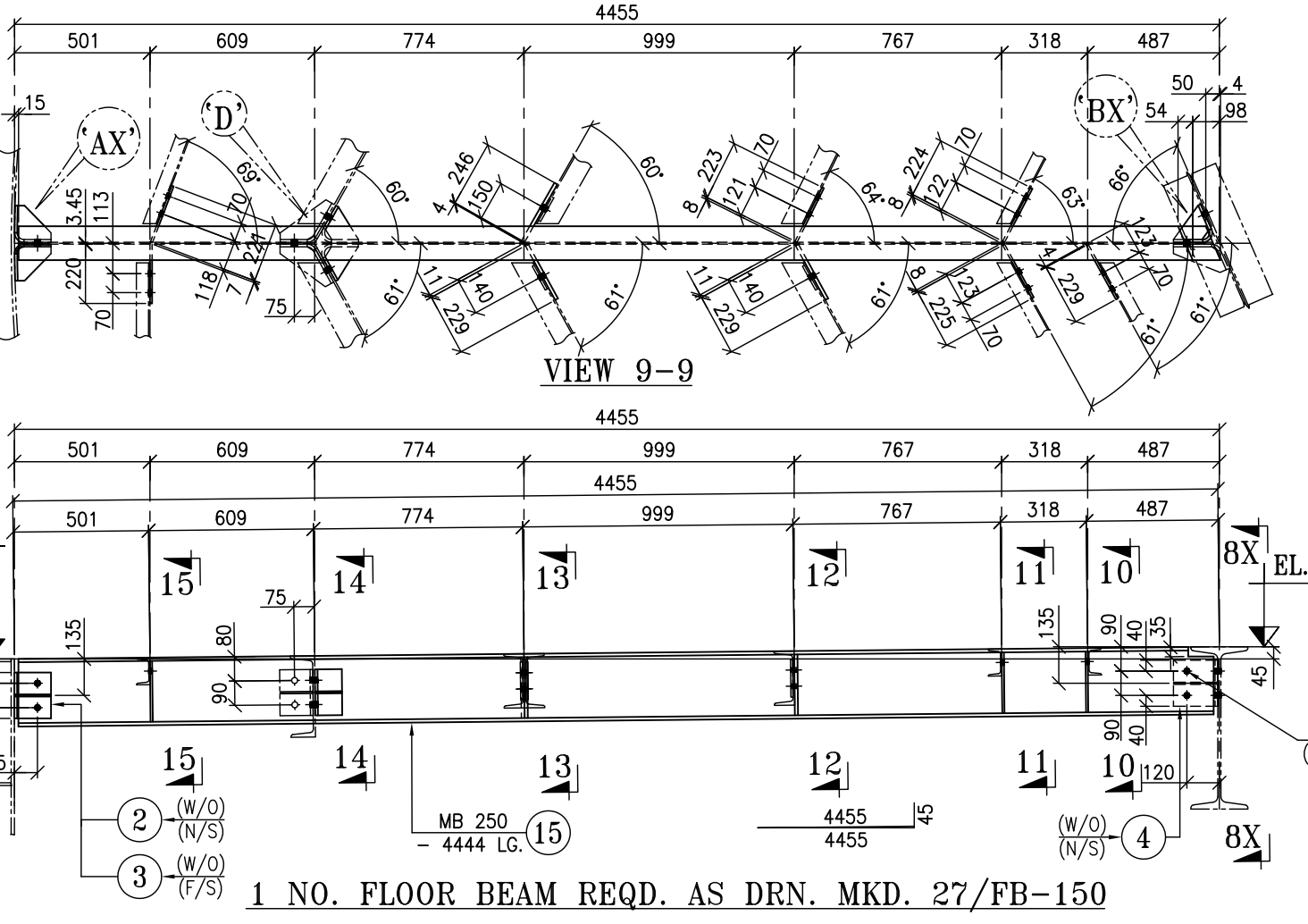
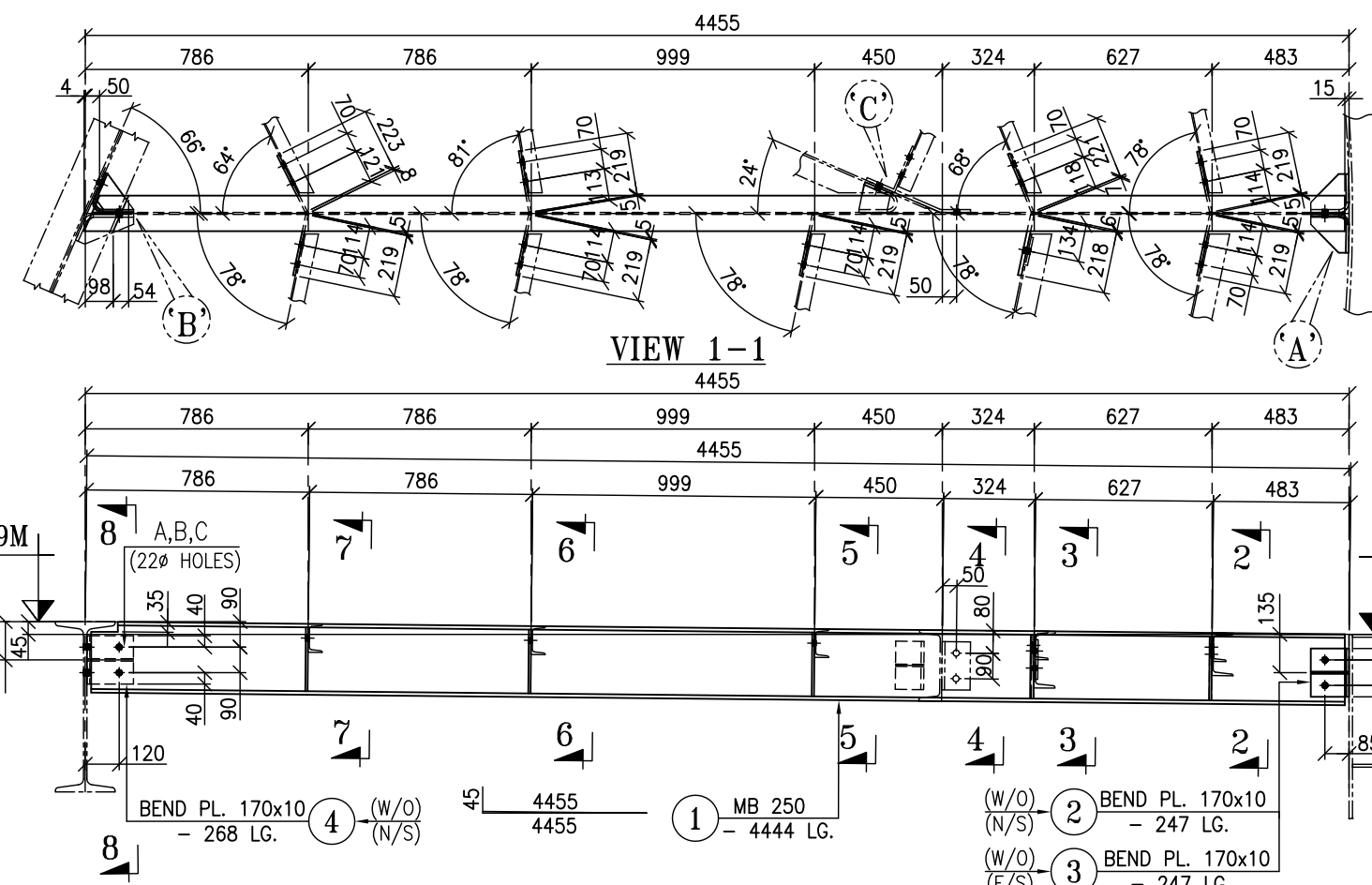
NOTES:-

- ALL DIMENSIONS ARE IN m.m. AND LEVELS ARE IN METER.
- ALL WELDS ARE MINIMUM 6m.m LEG SIZE CONTINUOUS FILLET (U.O.N)
- ALL PERMANENT BOLT HOLES ARE 22Ø FOR M20 H.T. BOLTS (GR.8.8)(U.O.N.)
- ALL PERMANENT BOLTS SHOWN THUS-----Ø
- ALL BUTT WELDS ARE FULL PENETRATION AND TO ACHIEVE FULL STRENGTH.
- THIS DRAWING IN NOT BE SCALED, ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED.

- IN CASE OF ANY DOUBT SEEK CLARIFICATION BEFORE COMMENCING JOB.
- THIS DRG. HAS BEEN PREPARED BASED ON BASIC DESIGN DRG.
No. Maitree-00-UET-LC-177408-ISC-1
- FOR OTHER NOTES REF. DRG. NO. 19611010001
- FOR MARKING REF. DRG. NO. 19611010001
- ALL INCLINED MEMBERS & SIZE OF GUSSET PLATE ARE TO BE CHECKED AND VERIFIED FROM ACTUAL FULL SCALE LAYOUT.

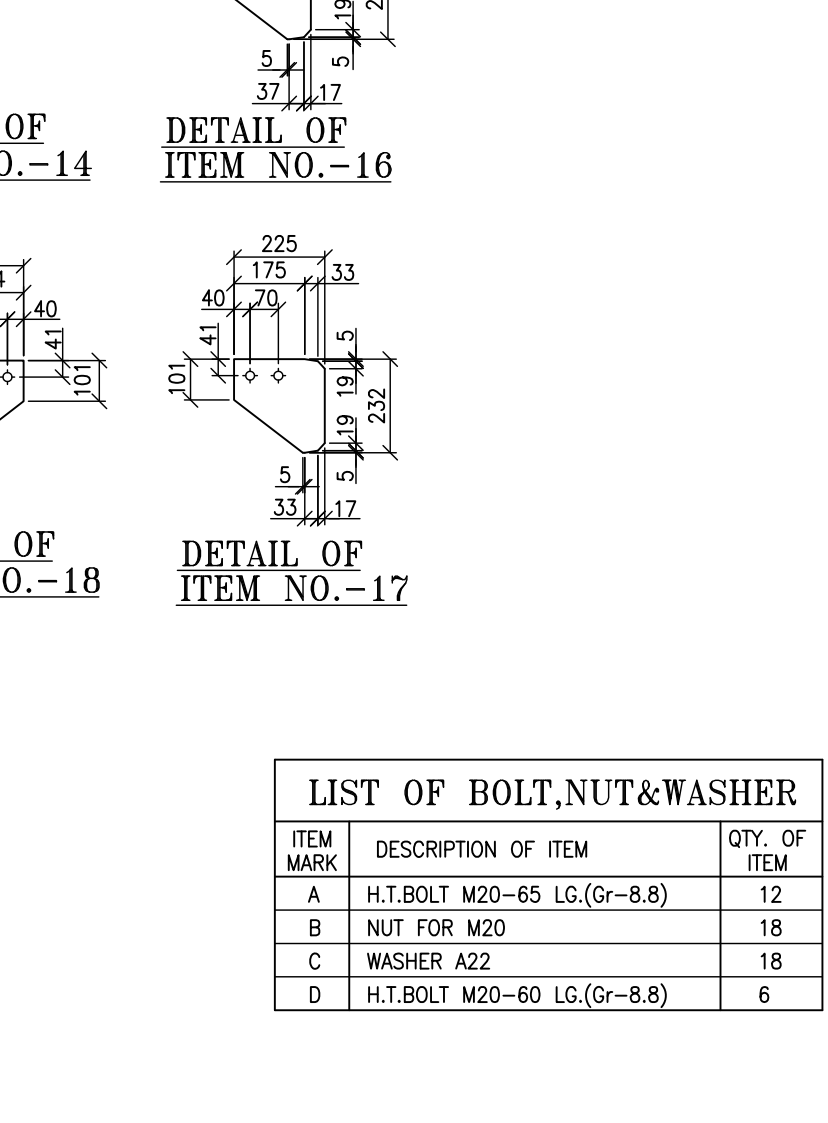
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REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE



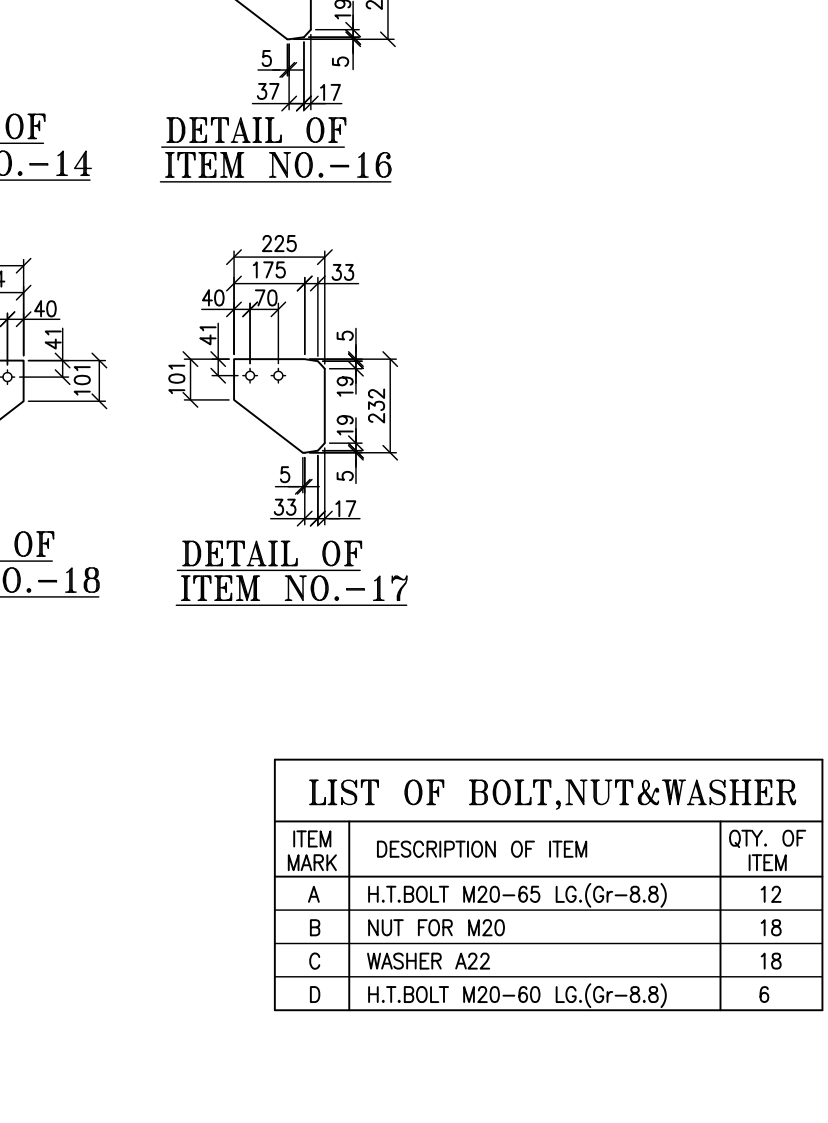
BILL OF MATERIALS									
ERECTION MARK	ITEM NO.	SECTION	LENGTH (mm)	NO. REQD.	UNIT WT. (KG/M OR KG/MT)	WT. OF ITEM (KG.)	WT. OF EACH ERECTION MARK (KG.)	NO. OF EACH ERECTION MARK	TOTAL WT. (KG.)
27/FB-149	1	MB 250	4444	1	37.30	165.76			
	2	PL 170x10	247	1	78.50	3.30			
	3	PL 170x10	247	1	78.50	3.30			
	4	PL 170x10	268	1	78.50	3.58			
	5	PL 125x8	125	1	62.80	0.98			
	6	PL 125x8	125	1	62.80	0.98			
	7	PL 86x8	157	1	62.80	0.85			
	8	PL 219x8	232	1	62.80	1.276			
	9	PL 219x8	232	1	62.80	3.19			
	10	PL 221x8	232	1	62.80	3.22			
	11	PL 218x12	232	1	94.20	4.76			
	11A	PL 88x8	110	1	62.80	0.61			
	12	PL 170x10	282	1	78.50	3.76			
	13	PL 219x8	232	1	62.80	3.19			
27/FB-150	15	MB 250	4444	1	37.30	165.76			
	2	PL 170x10	247	1	78.50	3.30			
	3	PL 170x10	247	1	78.50	3.30			
	4	PL 170x10	268	1	78.50	3.58			
	5	PL 125x8	125	1	62.80	0.98			
	6	PL 125x8	125	1	62.80	0.98			
	7	PL 86x8	157	1	62.80	0.85			
	16	PL 229x8	232	1	62.80	3.34			
	17	PL 225x8	232	1	62.80	3.26			
	18	PL 224x8	232	1	62.80	3.26			
	19	PL 229x12	232	2	94.20	10.01			
	20	PL 232x12	232	1	94.20	5.07			
	21	PL 232x8	246	1	62.80	3.58			
	22	PL 84x8	142	1	62.80	0.75			
27/FB-151	23	PL 93x8	148	1	62.80	0.86			
	24	PL 170x10	259	1	78.50	3.46			
	25	PL 170x10	259	1	78.50	3.46			
	26	PL 220x8	232	1	62.80	3.21			
	27	PL 221x8	232	1	62.80	3.22			
	28	MB 250	4399	1	37.30	164.08			
	29	PL 170x10	276	1	78.50	3.68			
	3	PL 170x10	247	1	78.50	3.30			
	5	PL 125x8	125	1	62.80	0.98			
	6	PL 125x8	125	1	62.80	0.98			
	16	PL 229x8	232	1	62.80	3.34			
	30	PL 146x8	203	1	62.80	1.86			
	31	PL 224x8	232	1	62.80	3.26			
	31A	PL 226x8	232	1	62.80	3.29			
	32	PL 221x8	232	1	62.80	3.22			
	33	PL 229x12	232	1	94.20	5.00			
	34	PL 223x8	232	1	62.80	3.25			
	35	PL 223x12	232	1	94.20	4.87			
	36	PL 229x12	232	1	94.20	5.00			
	37	PL 85x8	147	1	62.80	0.78			
	38	PL 87x8	157	1	62.80	0.86			
	39	PL 170x10	272	1	78.50	3.63			
	40	PL 170x10	264	1	78.50	3.52			
	41	PL 219x8	232	1	62.80	3.19			
	42	PL 219x8	232	1	62.80	3.19			
TOTAL WEIGHT =					660.32	KG.S.	0.660	MT.	

MATERIALS ABSTRACT			
SL. NO.	SECTION	WT. (KGS.)	CODE/GRADE
1	MB 250	495.60	E350 (A/BR), SA/IS:2062
2	PLATE 12 THK.	34.71	E350 (BR/BO), SA/IS:2062
3	PLATE 10 THK.	48.47	E350 (BR/BO), SA/IS:2062
4	PLATE 8 THK.	81.54	E350 (BR/BO), SA/IS:2062
TOTAL WEIGHT =		660.32	KGS.



BILL OF MATERIALS									
ERECTION MARK	ITEM NO.	SECTION	LENGTH (mm)	NO. REQD.	UNIT WT. (KG/M OR KG/MT)	WT. OF ITEM (KG.)	WT. OF EACH ERECTION MARK (KG.)	NO. OF EACH ERECTION MARK	TOTAL WT. (KG.)
27/FB-149	1	MB 250	4444	1	37.30	165.76			
	2	PL 170x10	247	1	78.50	3.30			
	3	PL 170x10	247	1	78.50	3.30			
	4	PL 170x10	268	1	78.50	3.58			
	5	PL 125x8	125	1	62.80	0.98			
	6	PL 125x8	125	1	62.80	0.98			
	7	PL 86x8	157	1	62.80	0.85			
	8	PL 219x8	232	1	62.80	1.276			
	9	PL 219x8	232	1	62.80	3.19			
	10	PL 221x8	232	1	62.80	3.22			
	11	PL 218x12	232	1	94.20	4.76			
	11A	PL 88x8	110	1	62.80	0.61			
	12	PL 170x10	282	1	78.50	3.76			
	13	PL 219x8	232	1	62.80	3.19			
27/FB-150	15	MB 250	4444	1	37.30	165.76			
	2	PL 170x10	247	1	78.50	3.30			
	3	PL 170x10	247	1	78.50	3.30			
	4	PL 170x10	268	1	78.50	3.58			
	5	PL 125x8	125	1	62.80	0.98			
	6	PL 125x8	125	1	62.80	0.98			
	7	PL 86x8	157	1	62.80	0.85			
	16	PL 229x8	232	1	62.80	3.34			
	17	PL 225x8	232	1	62.80	3.26			
	18	PL 224x8	232	1	62.80	3.26			
	19	PL 229x12	232	2	94.20	10.01			
	20	PL 232x12	232	1	94.20	5.07			
	21	PL 232x8	246	1	62.80	3.58			
	22	PL 84x8	142	1	62.80	0.75			
27/FB-151	23	PL 93x8	148	1	62.80	0.86			
	24	PL 170x10	259	1	78.50	3.46			
	25	PL 170x10	259	1	78.50	3.46			
	26	PL 220x8	232	1	62.80	3.21			
	27	PL 221x8	232	1	62.80	3.22			
	28	MB 250	4399	1	37.30	164.08			
	29	PL 170x10	276	1	78.50	3.68			
	3	PL 170x10	247	1	78.50	3.30			
	5	PL 125x8	125	1	62.80	0.98			
	6	PL 125x8	125	1	62.80	0.98			
	16	PL 229x8	232	1	62.80	3.34			
	30	PL 146x8	203	1	62.80	1.86			
	31	PL 224x8	232	1	62.80	3.26			
	31A	PL 226x8	232	1	62.80	3.29			
	32	PL 221x8	232	1	62.80	3.22			
	33	PL 229x12	232	1	94.20	5.00			
	34	PL 223x8	232	1	62.80	3.25			
	35	PL 223x12	232	1	94.20	4.87			
	36	PL 229x12	232	1	94.20	5.00			
	37	PL 85x8	147	1	62.80	0.78			
	38	PL 87x8	157	1	62.80	0.86			
	39	PL 170x10	272	1	78.50	3.63			
	40	PL 170x10	264	1	78.50	3.52			
	41	PL 219x8	232	1	62.80	3.19			
	42	PL 219x8	232	1	62.80	3.19			
TOTAL WEIGHT =					660.32	KG.S.	0.660	MT.	

MATERIALS ABSTRACT			
SL. NO.	SECTION	WT. (KGS.)	CODE/GRADE
1	MB 250	495.60	E350 (A/BR), SA/IS:2062
2	PLATE 12 THK.	34.71	E350 (BR/BO), SA/IS:2062
3	PLATE 10 THK.	48.47	E350 (BR/BO), SA/IS:2062
4	PLATE 8 THK.	81.54	E350 (BR/BO), SA/IS:2062
TOTAL WEIGHT =		660.32	KGS.



SECTION	LENGTH (mm)	NO. REQD.	UNIT WT. (KG/M OR KG/MT)	WT. OF ITEM (KG.)	EACH ERECTION MARK (KG.)	NO. OF EACH ERECTION MARK	TOTAL WT. (KG.)
B 250	4444	1	37.30	165.76			
	170x10	247	1	78.50	3.30		
	170x10	247	1	78.50	3.30		
	170x10	268	1	78.50	3.58		
	125x8	125	1	62.80	0.98		
	125x8	125	1	62.80	0.98		
	86x8	157	1	62.80	0.85		
	219x8	232	4	62.80	12.76		
	219x8	232	1	62.80	3.19		
	222x12	232	2	62.80	3.22		
	218x12	232	1	94.20	4.76		
	88x8	110	1	62.80	0.61		
	170x10	282	1	78.50	3.76		
219x8	232	1	62.80	3.19			
223x8	232	1	62.80	3.25			
					213.49	1	213.49
B 250	4444	1	37.30	165.76			
	170x10	247	1	78.50	3.30		
	170x10	247	1	78.50	3.30		
	170x10	268	1	78.50	3.58		
	125x8	125	1	62.80	0.98		
	125x8	125	1	62.80	0.98		
	86x8	157	1	62.80	0.85		
	219x8	232	1	62.80	3.19		
	225x8	232	1	62.80	3.24		
	224x8	232	1	62.80	3.26		
	229x12	232	2	94.20	10.01		
	232x12	232	1	94.20	10.57		
	223x12	246	1	62.80	3.58		
84x8	142	1	62.80	0.75			
93x8	148	1	62.80	0.86			
170x10	259	1	78.50	3.46			
170x10	259	1	78.50	3.46			
220x8	232	1	62.80	3.21			
221x8	232	1	62.80	3.22			
					222.25	1	222.25
B 250	4399	1	37.30	164.08			
	170x10	276	1	78.50	3.68		
	170x10	247	1	78.50	3.30		
	170x10	247	1	78.50	3.30		
	125x8	125	1	62.80	0.98		
	125x8	125	1	62.80	0.98		
	219x8	232	1	62.80	3.34		
	222x8	232	1	62.80	3.38		
	144x8	203	1	62.80	1.86		
	224x8	232	1	62.80	3.26		
	220x8	232	1	62.80	3.25		
	221x8	232	1	62.80	3.22		
	229x12	232	1	94.20	5.00		
223x8	232	1	62.80	3.27			
223x12	232	1	94.20	3.85			
229x12	232	1	94.20	5.00			
85x8	147	1	62.80	0.78			
87x8	157	1	62.80	0.86			
170x10	272	1	78.50	3.63			
170x10	264	1	78.50	3.52			
219x8	232	1	62.80	3.19			
219x8	232	1	62.80	3.19			
					224.58	1	224.58
TOTAL WEIGHT =				660.32 KGS.	0.660	MT.	

		भारत हेवी इलेक्ट्रिकल्स लिमिटेड हैदराबाद BHARAT HEAVY ELECTRICALS LTD. HYDERABAD		<table><tr><th>NAME</th><th>SIGN.</th><th>DATE</th></tr><tr><td>DRN. KARTHIK</td><td rowspan="3"></td><td>23.09.19</td></tr><tr><td>CHD. SAMPATH</td><td></td></tr><tr><td>APPD. SCJ</td><td></td></tr></table>		NAME	SIGN.	DATE	DRN. KARTHIK		23.09.19	CHD. SAMPATH		APPD. SCJ		NO.OF VAR.
NAME	SIGN.	DATE														
DRN. KARTHIK		23.09.19														
CHD. SAMPATH																
APPD. SCJ																
DEPT. OR		SCALE OR	WEIGHT (KG) NTS	REF. TO ASSY DRG.	ITEM NO.	NO.OF ITEMS										
CODE 4430																
TITLE FLY ASH INTERMEDIATE SILO 1 & 2 DETAIL OF FLOOR BEAM AT EL (+)27.784M (T.O.SILO)				DRAWING NO. 1-96110-1-0085		REV. 00										
				SHEET NO. 01	NO OF SHEETS	01										

NOTES:—

1. ALL DIMENSIONS ARE IN M.M. AND LEVELS ARE IN METER.
2. ALL WELDS ARE MINIMUM 6m.m LEG SIZE CONTINUOUS FILLET (U.O.N)
3. ALL PERMANENT BOLT HOLES ARE 22ø FOR M20 H.T. BOLTS (GR.8.8)(U.N.O.)
4. ALL PERMANENT BOLTS SHOWN THUS-----
5. ALL BUTT WELDS ARE FULL PENETRATION AND TO ACHIEVE FULL STRENGTH.
6. THIS DRAWING IN NOT BE SCALED, ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED.
8. THIS DRG. HAS BEEN PREPARED BASED ON BASIC DESIGN DRG.
No. Maitree-00-UET-LC-177408-ISC-1
9. FOR OTHER NOTES REF. DRG. NO. 19611010001
10. FOR MARKING REF. DRG. NO. 19611010001
11. ALL INCLINED MEMBERS & SIZE OF GUSSET PLATE ARE TO BE
CHECKED AND VERIFIED FROM ACTUAL FULL SCALE LAYOUT.
- ANY OBSTRUCTION WHILE LAYING.

REV	DATE	DRN	CHD	APPD	DESCRIPTION/NOTE