

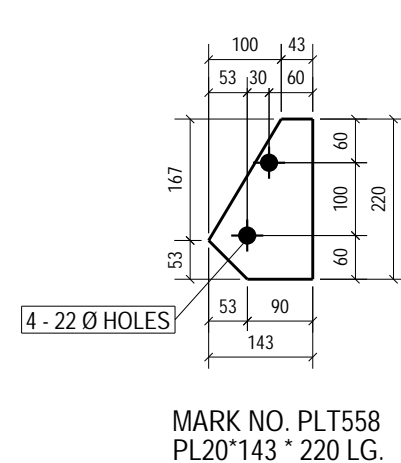
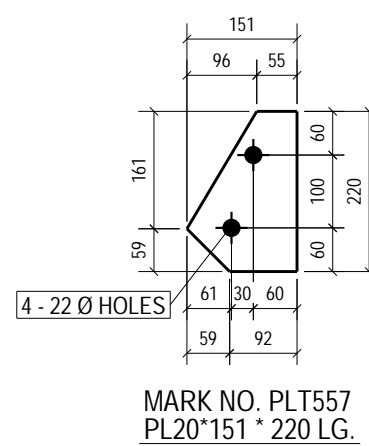
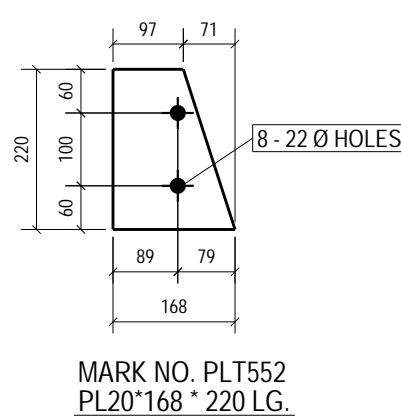
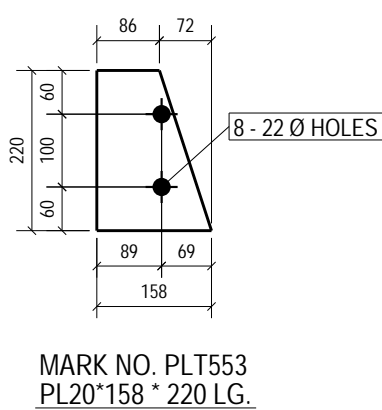
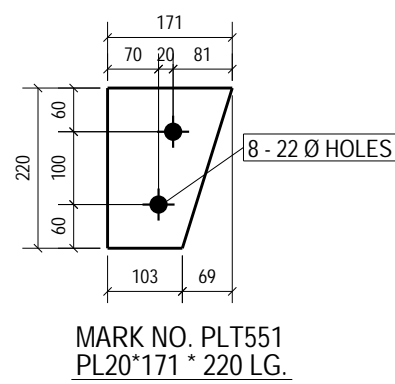
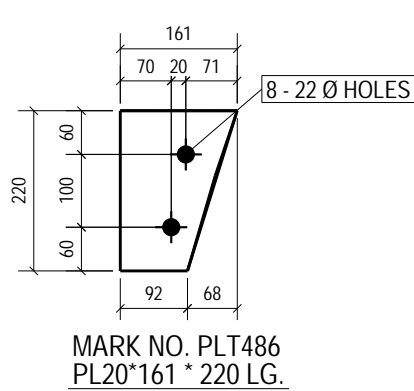
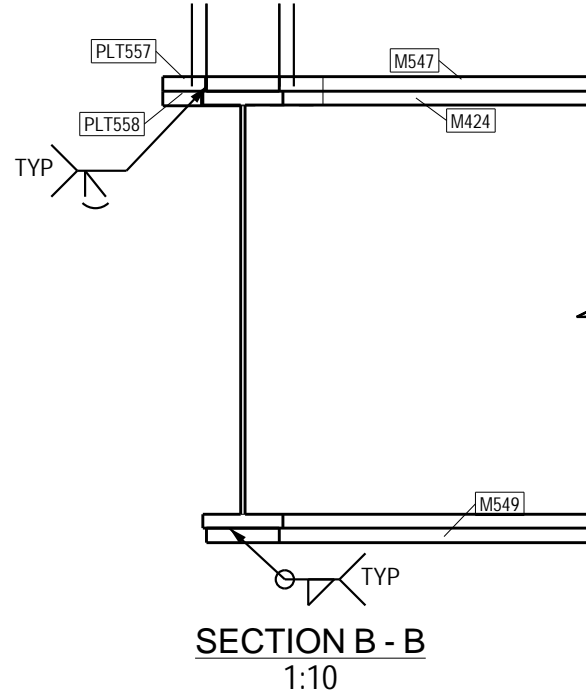
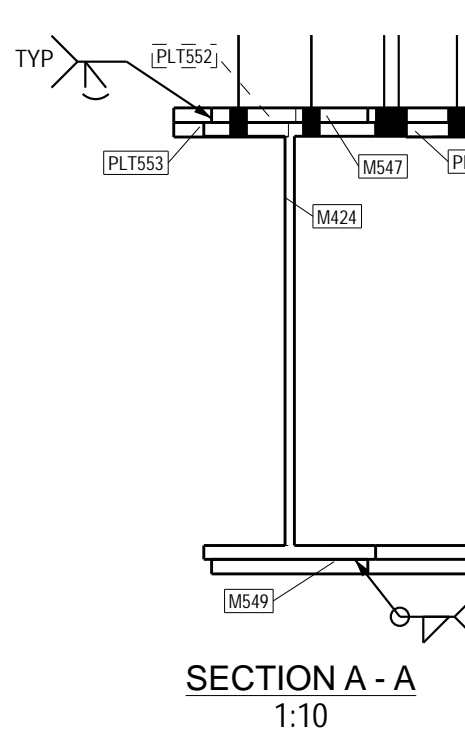
GRID LOCATION		
MH1-MR1	56-55/F-E	+3.581

1 NOS - MONORAIL - MARKED AS MH1-MR1

SUMMARY OF STEEL		
SR. No.	DESCRIPTION	TOTAL WT.
1	NPB600X220X122	791.19
2	PLT 20 THK	439.28
TOTAL IN KGS		1230.47

FIELD BOLT SUMMARY				
TOTAL QTY	UNIT QTY	BOLT DIA	BOLT GRADE	LENGTH
8	8	20	10.9	100
8	8	20	10.9	100

BILL OF MATERIALS									
ERECTION MARK.	ITEM NO.	MATL. SPCL.	SECTION	LENGTH IN mm.	REQD. NOS.	WEIGHT IN KGS. UNIT WT.	TOTAL WT.	ERE. NOS.	WT. FOR ALL EREC.
MH1-MR1	M424	E250 AB	NPB600X220X122.45	6461.2	1	791.19	791.19	1	1230.47
	M547	E250 AB	PL20'200	6471.7	1	203.21	203.21		
	M549	E250 AB	PL20'200	6471.7	1	203.21	203.21		
	PLT486	E250 AB	PL20'161	220.0	1	5.55	5.55		
	PLT551	E250 AB	PL20'171	220.0	1	5.92	5.92		
	PLT552	E250 AB	PL20'168	220.0	1	5.79	5.79		
	PLT553	E250 AB	PL20'158	220.0	1	5.44	5.44		
	PLT557	E250 AB	PL20'151	220.0	1	5.22	5.22		
	PLT558	E250 AB	PL20'143	220.0	1	4.94	4.94		
GRAND TOTAL									1230.47



NOTES:

01. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METER U.N.O.
02. THIS DRAWING IS NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
03. ALL BUTT WELDS SHALL BE OF FULL PENETRATION.
04. Use 10.9 BOLT GRADE UNLESS NOTED OTHERWISE MENTIONED IN ERECTION DRAWING.

MINIMUM WELD SIZE FOR VARIOUS PLATE						
PLATE SIZE	8 mm & 10 mm	12 mm	16 mm & 20 mm	25 mm	28 mm & 32 mm	36 mm & 40 mm
WELD SIZE	6 mm	10 mm	12 mm	16 mm	20 mm	25 mm

02 NO CHANGE	HP	KJ	YG	11.01.2023
01 ISSUE FOR CONSTRUCTION	HP	KJ	YG	11.11.2022
00 ISSUE FOR CONSTRUCTION	HP	KJ	YG	20.10.2022
No	DESCRIPTION	DRN	CHECKED	APPROVED

PAT-IP-CHP-TH-100-0001	MARKING DRAWINGS FOR TRACK HOPPER-1 & MH	00
DRAWING NO.	DRAWING TITLE	REV
REFERENCE DOCUMENTS / DRAWINGS		

CUSTOMER/PROJECT: NTPC-3x800MW PATRATU SUPER THERMAL POWER PROJECT

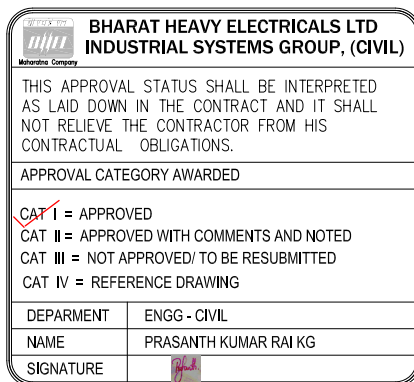
EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD POWER SECTOR WESTERN REGION, NAGPUR SCALE:- AS SHOWN

DETAILER: BEC BANKAPUR ENGINEERS & CONSULTANTS PVT. LTD.

FABRICATION CONTRACTOR:

भारत हीव्ही इलेक्ट्रिकल्स लिमिटेड
BHARAT HEAVY ELECTRICALS LTD.
FSIP, JAGDISHPUR

NAME	DATE	DRAWING TITLE :-
DRN	HP	11.11.2022
CHD	KJ	11.11.2022
APPD	YG	11.11.2022
DRAWING DOCUMENT NO. :-		PAT-IP-CHP-TH-999-0037
SHEET		1 OF 5
REV. :-		02



GRID LOCATION		
MH1-MR2	56-55/B-A	+3.581

1 NOS - MONORAIL - MARKED AS MH1-MR2

SUMMARY OF STEEL	
SR. No.	DESCRIPTION
1	NPB600X220X122
2	PLT 20 THK
TOTAL IN KGS	

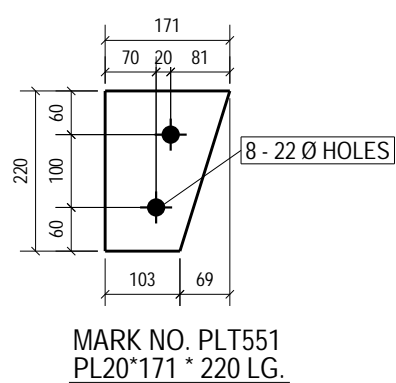
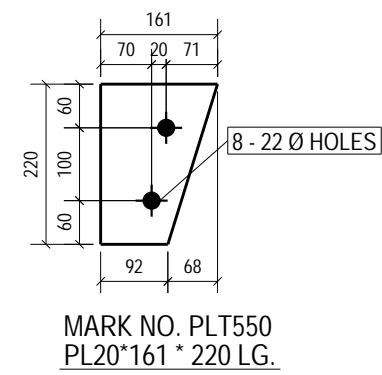
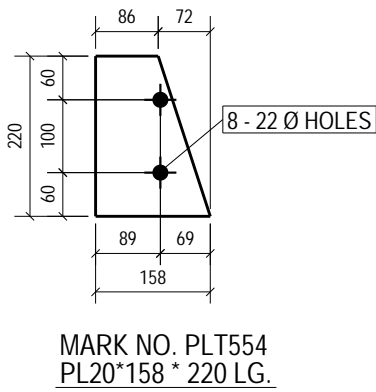
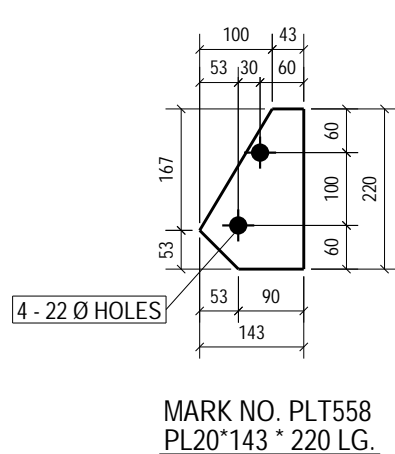
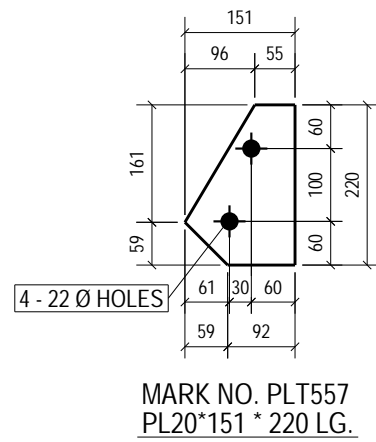
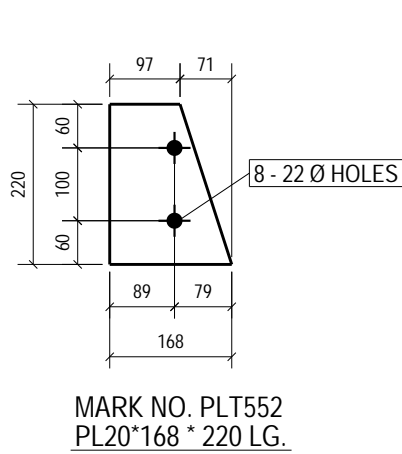
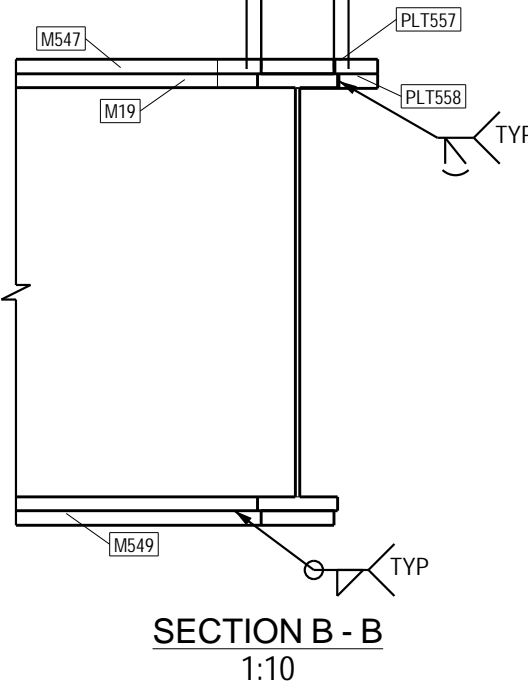
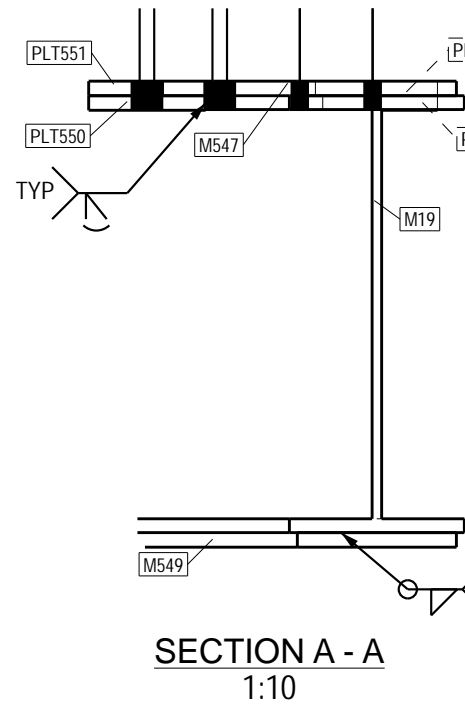
TOTAL WT.	
791.19	
439.28	
1230.47	

FIELD BOLT SUMMARY

TOTAL QTY	UNIT QTY	BOLT DIA	BOLT GRADE	LENGTH	REMARK
8	8	20	10.9	100	Site
4	4	20	10.9	100	Site

BILL OF MATERIALS

ERECTION MARK.	ITEM NO.	MATL. SPCL.	SECTION	LENGTH IN mm.	REQD. NOS.	WEIGHT IN KGS.		ERE. NOS.	WT. FOR ALL EREC.
						UNIT WT.	TOTAL WT.		
MH1-MR2	M19	E250 AB	NPB600X220X122.45	6461.2	1	791.19	791.19	1	1230.47
	M547	E250 AB	PL20'200	6471.7	1	203.21	203.21		
	M549	E250 AB	PL20'200	6471.7	1	203.21	203.21		
	PLT550	E250 AB	PL20'161	220.0	1	5.55	5.55		
	PLT551	E250 AB	PL20'171	220.0	1	5.92	5.92		
	PLT552	E250 AB	PL20'168	220.0	1	5.79	5.79		
	PLT554	E250 AB	PL20'158	220.0	1	5.44	5.44		
	PLT557	E250 AB	PL20'151	220.0	1	5.22	5.22		
	PLT558	E250 AB	PL20'143	220.0	1	4.94	4.94		
GRAND TOTAL									1230.47



NOTES:

01. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METER U.N.O.
02. THIS DRAWING IS NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
03. ALL BUTT WELDS SHALL BE OF FULL PENETRATION.
04. Use 10.9 BOLT GRADE UNLESS NOTED OTHERWISE MENTIONED IN ERECTION DRAWING.

MINIMUM WELD SIZE FOR VARIOUS PLATE	
PLATE SIZE	8 mm & 10 mm 12 mm 16 mm & 20 mm 25 mm 28 mm & 32 mm 36 mm & 40 mm 45 mm & 50 mm
WELD SIZE	6 mm 10 mm 12 mm 16 mm 20 mm 25 mm 25 mm

02	NO CHANGE	HP	KJ	YG	11.01.2023
01	ISSUE FOR CONSTRUCTION	HP	KJ	YG	11.11.2022
00	ISSUE FOR CONSTRUCTION	HP	KJ	YG	20.10.2022
No	DESCRIPTION	DRN	CHECKED	APPROVED	DATE

PAT-IP-CHP-TH-100-0001	MARKING DRAWINGS FOR TRACK HOPPER-1 & MH	00
DRAWING NO.	DRAWING TITLE	REV

REFERENCE DOCUMENTS / DRAWINGS

CUSTOMER/PROJECT:
NTPC-3x800MW PATRATU SUPER THERMAL POWER PROJECT

EPC CONTRACTOR: BHARAT HEAVY ELECTRICALS LTD
POWER SECTOR WESTERN REGION, NAGPUR

DETAILER: BEC BANKAPUR ENGINEERS & CONSULTANTS PVT. LTD.

FABRICATION CONTRACTOR:

भारत हीव्ही इलेक्ट्रिकल्स लिमिटेड
BHARAT HEAVY ELECTRICALS LTD.
FSIP, JAGDISHPUR

NAME	DATE	DRAWING TITLE -
DRN	HP	11.11.2022
CHD	KJ	11.11.2022
APPD	YG	11.11.2022

DETAIL DRAWINGS FOR TRACK HOPPER-1 & MH

DETAIL DRAWINGS FOR MONORAIL OF MH-1

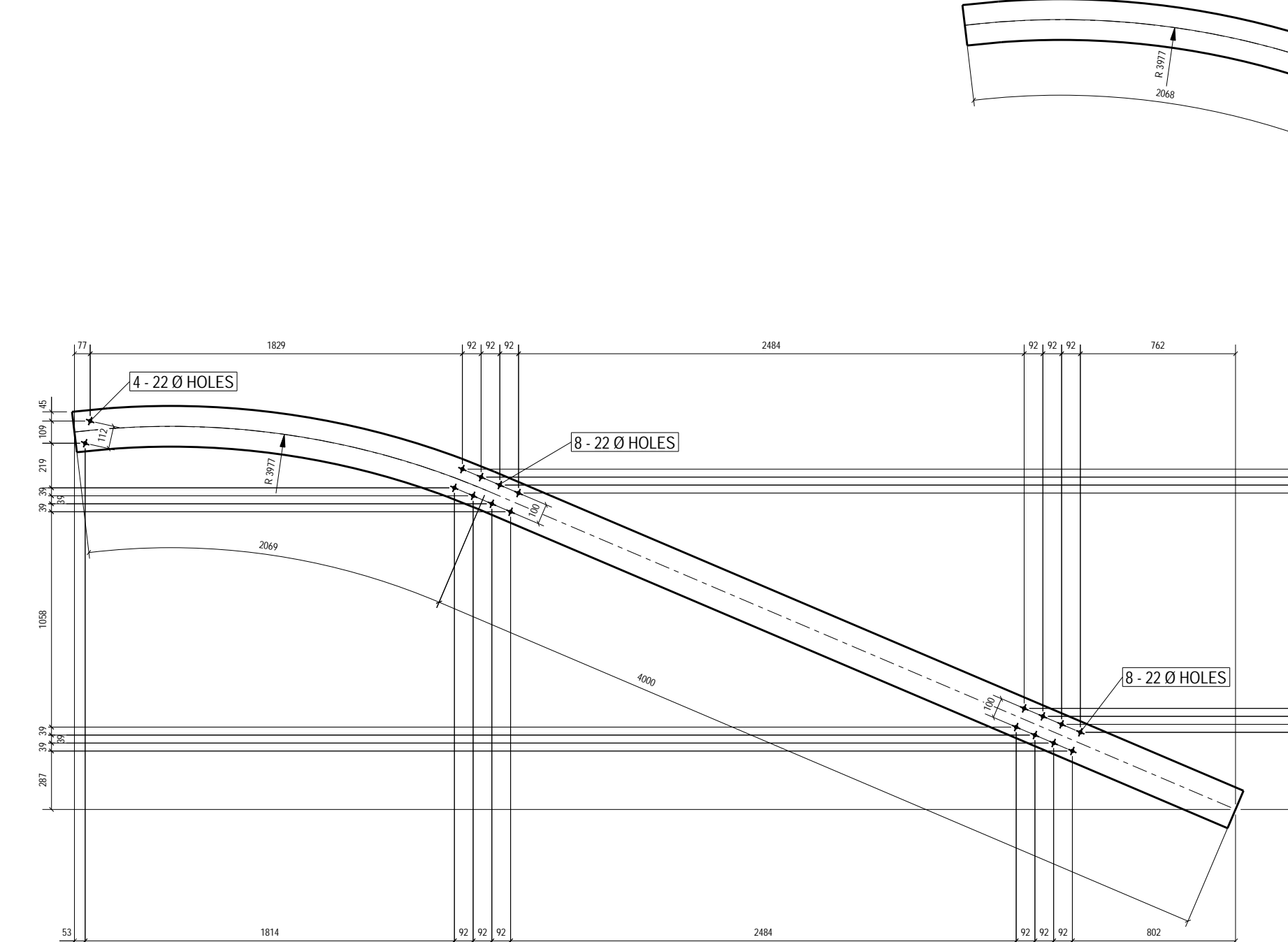
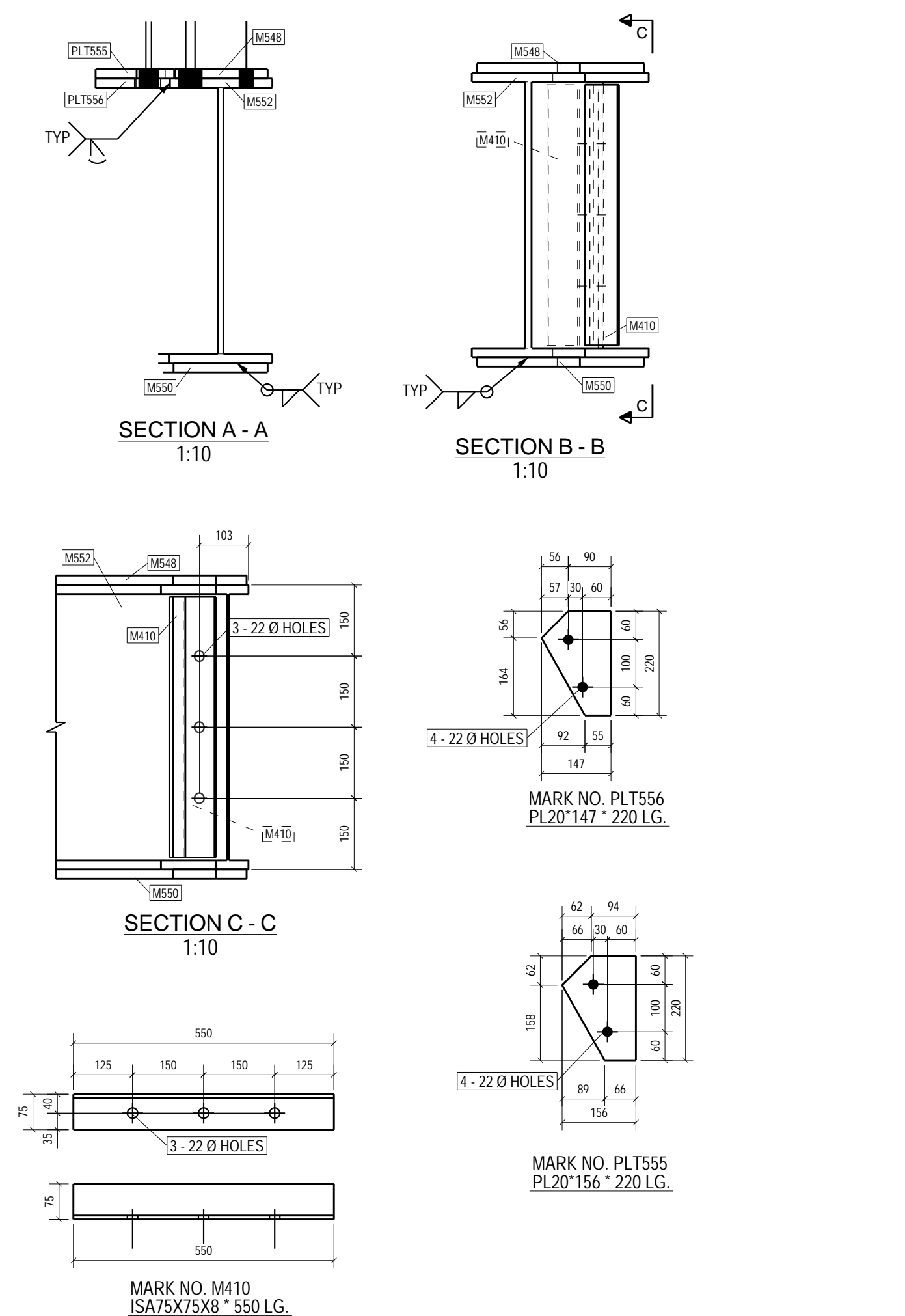
DRAWING DOCUMENT NO. - PAT-IP-CHP-TH-999-0037

SHEET - 2 OF 5

REV.: 02

SIZE-A1

BILL OF MATERIALS									
ERECTION MARK.	ITEM NO.	MATL. SPCN.	SECTION	LENGTH IN mm.	REQD. NOS.	WEIGHT IN KGS.		EREC. NOS.	WT. FOR ALL EREC.
						UNIT WT.	TOTAL WT.		
MH1-MRS							1134.11		1134.11
	M552	E200 AB	NPB800(X22)2145	6010.7	1	736.02	736.02		
	M410	E200 AB	ISA75X75X3	550.0	2	4.92	9.84		
	M549	E200 AB	PL20*220	6015.9	1	188.90	188.90		
	M550	E200 AB	PL20*220	6015.9	1	188.90	188.90		
	PLT555	E200 AB	PL20*156	220.0	1	5.38	5.38		
	PLT556	E200 AB	PL20*147	220.0	1	5.06	5.06		
GRAND TOTAL									1134.11



NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METER U.A.O.
- THIS DRAWING IS NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
- ALL BUTT WELDS SHALL BE OF FULL PENETRATION.
- Use 10.9 BOLT GRADE UNLESS NOTED OTHERWISE MENTIONED IN ERECTION DRAWING.

MINIMUM WELD SIZE FOR VARIOUS PLATE							
PLATE SIZE	8 mm & 10 mm	12 mm	16 mm & 20 mm	25 mm	28 mm & 32 mm	36 mm & 40 mm	45 mm & 50 mm
WELD SIZE	6 mm	10 mm	12 mm	16 mm	20 mm	25 mm	25 mm

02	NO CHANGE	HP	KJ	YG	11.01.2023
01	ISSUE FOR CONSTRUCTION	HP	KJ	YG	11.11.2022
00	ISSUE FOR CONSTRUCTION	HP	KJ	YG	20.10.2022
No	DESCRIPTION	DRN	CHECKED	APPROVED	DATE
	PAT-IP-CHP-TH-100-0001		MARKING DRAWINGS FOR TRACK HOPPER-1 & MH		00
	DRAWING NO.		DRAWING TITLE		REV

REFERENCE DOCUMENTS / DRAWINGS


CUSTOMER/PROJECT:
NTPC-3x800MW PATRATU SUPER THERMAL POWER PROJECT

EPC CONTRACTOR: **BHARAT HEAVY ELECTRICALS LTD**
 POWER SECTOR WESTERN REGION, NAGPUR

SCALE:-
 AS SHOWN

DETAILER: **BEC** BANKAPUR ENGINEERS & CONSULTANTS PVT. LTD.

FABRICATION CONTRACTOR:



भारत हीवी इलेक्ट्रिकल्स लिमिटेड
BHARAT HEAVY ELECTRICALS LTD.
 FSI, JAGDISHPUR

NAME	DATE	DRAWING TITLE :-
DRN	KJ 11.11.2022	DETAIL DRAWINGS FOR TRACK HOPPER-1 & MH
		DRAWING DESCRIPTION :-
CHD	HP 11.11.2022	DETAIL DRAWINGS FOR MONORAIL OF MH-1
		DRAWING DOCUMENT NO. :-
APPD	YG 11.11.2022	PAT-IP-CHP-TH-999-0037
		SHEET - 3 OF 5
		REV. : 00

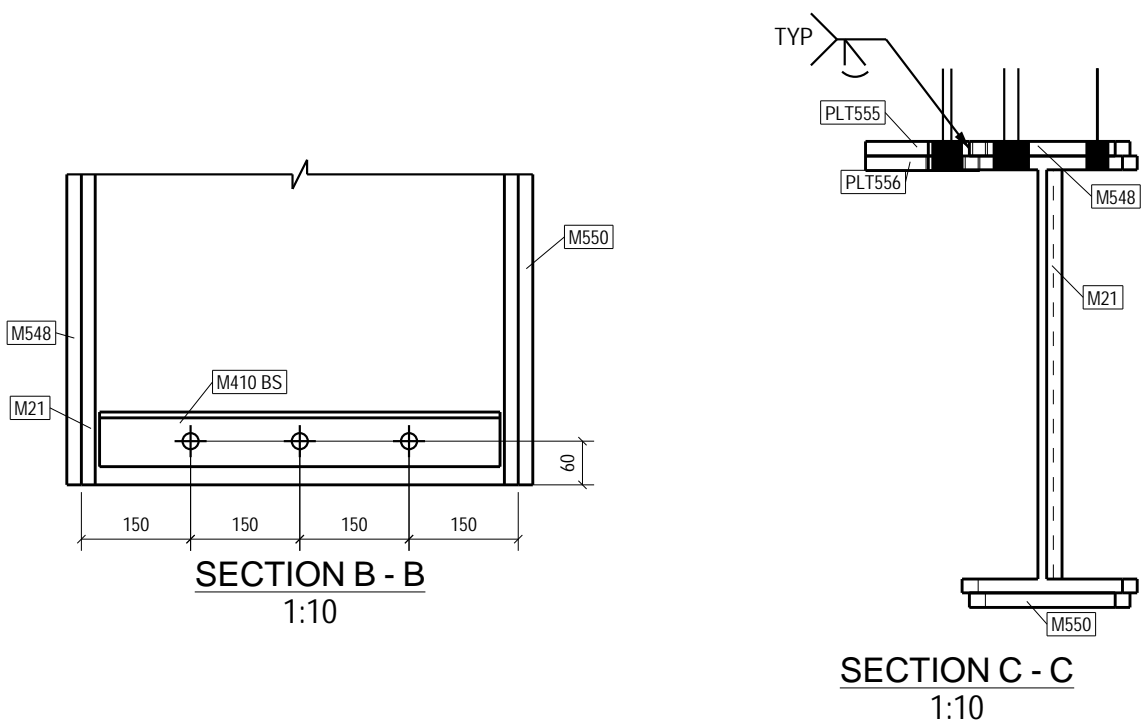
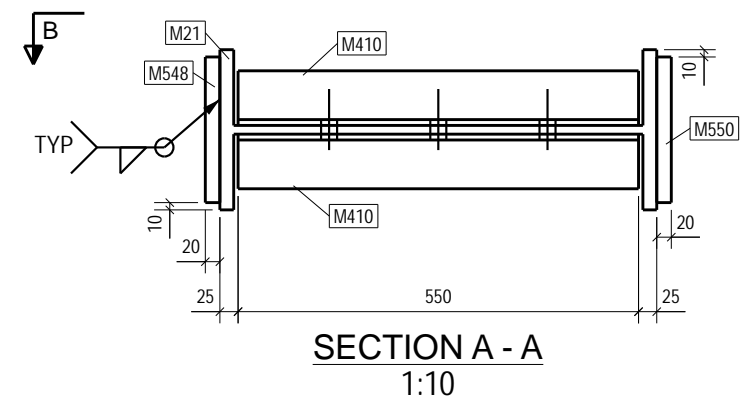
GRID LOCATION
MH1-MR6
57-55/B-A
+3.581

SUMMARY OF STEEL		
SR. No.	DESCRIPTION	TOTAL WT.
1	ISA75X75X8	9.84
2	NPB600X220X122	736.02
3	PLT 20 THK	388.24
TOTAL IN KGS		1134.11

FIELD BOLT SUMMARY			
TOTAL QTY	UNIT QTY	BOLT DIA	BOLT GRADE
3	3	20	10.9
16	16	20	10.9
		LENGTH	REMARK
		70	Workshop
		100	Site

BILL OF MATERIALS									
ERECTION MARK.	ITEM NO.	MATL. SPCL.	SECTION	LENGTH IN mm.	REQD. NOS.	WEIGHT IN KGS. UNIT WT.	TOTAL WT.	ERE. NOS.	WT. FOR ALL EREC.
MH1-MR6	M21	E20 AB	NPB600X220X122.45	6010.7	1	736.02	736.02	1	1134.11
	M410	E20 AB	ISA75X75X8	550.0	2	4.92	9.84		
	M548	E20 AB	PL20'200	6015.9	1	188.90	188.90		
	M550	E20 AB	PL20'200	6015.9	1	188.90	188.90		
	PLT555	E20 AB	PL20'156	220.0	1	5.38	5.38		
	PLT556	E20 AB	PL20'147	220.0	1	5.06	5.06		
GRAND TOTAL									1134.11

1 NOS - MONORAIL - MARKED AS MH1-MR6



MARK NO. M550
PL20'200 * 6068 LG.

NOTES:				
01. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METER U.N.O.				
02. THIS DRAWING IS NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.				
03. ALL BUTT WELDS SHALL BE OF FULL PENETRATION.				
04. Use 10.9 BOLT GRADE UNLESS NOTED OTHERWISE MENTIONED IN ERECTION DRAWING.				
MINIMUM WELD SIZE FOR VARIOUS PLATE				
PLATE SIZE	8 mm & 10 mm	12 mm	16 mm & 20 mm	25 mm
WELD SIZE	6 mm	10 mm	12 mm	16 mm

02 NO CHANGE	HP	KJ	YG	11.01.2023
01 ISSUE FOR CONSTRUCTION	HP	KJ	YG	11.11.2022
00 ISSUE FOR CONSTRUCTION	HP	KJ	YG	20.10.2022
No	DESCRIPTION	DRN	CHECKED	APPROVED

PAT-IP-CHP-TH-100-0001	MARKING DRAWINGS FOR TRACK HOPPER-1 & MH	00
DRAWING NO.	DRAWING TITLE	REV

REFERENCE DOCUMENTS / DRAWINGS		
CUSTOMER/PROJECT:		
NTPC-3x800MW PATRATU SUPER THERMAL POWER PROJECT		

EPC CONTRACTOR:	BHARAT HEAVY ELECTRICALS LTD POWER SECTOR WESTERN REGION, NAGPUR	SCALE:- AS SHOWN
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DETAILER:	BANKAPUR ENGINEERS & CONSULTANTS PVT. LTD.	
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FABRICATION CONTRACTOR:		
Bharat Heavy Electricals Limited		
BHARAT HEAVY ELECTRICALS LTD.		
FSIP, JAGDISHPUR		

NAME	DATE	DRAWING TITLE :-
DRN	HP	11.11.2022
CHD	KJ	11.11.2022
APPD	YG	11.11.2022
DRAWING DOCUMENT NO. :-		PAT-IP-CHP-TH-999-0037
SHEET		4 OF 5
REV. :-		02

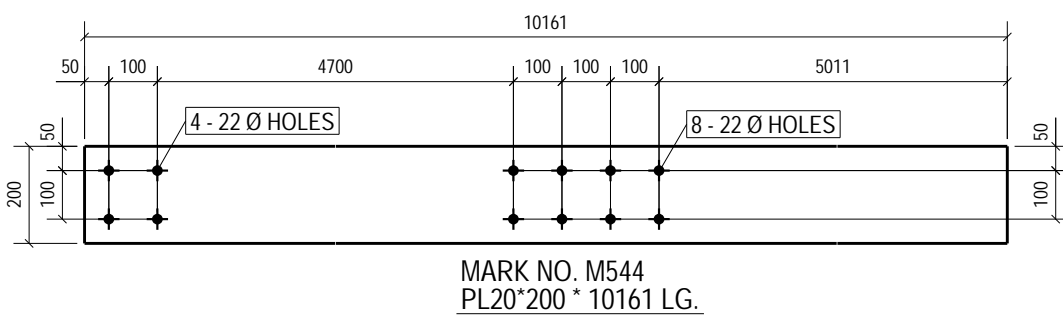
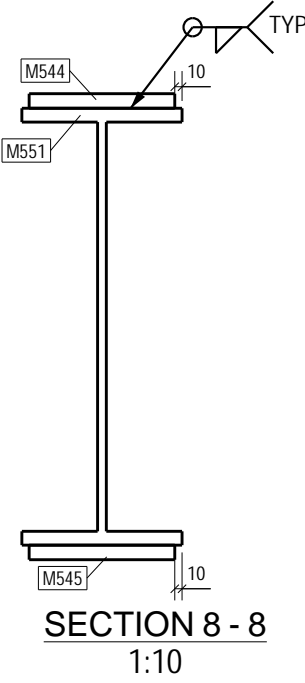
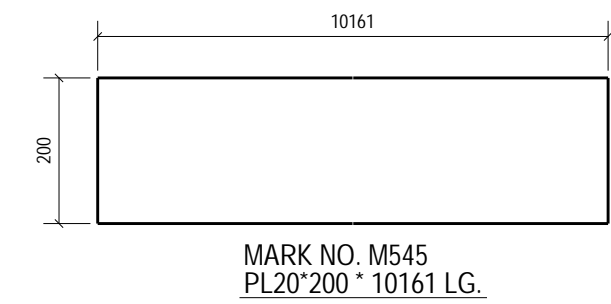
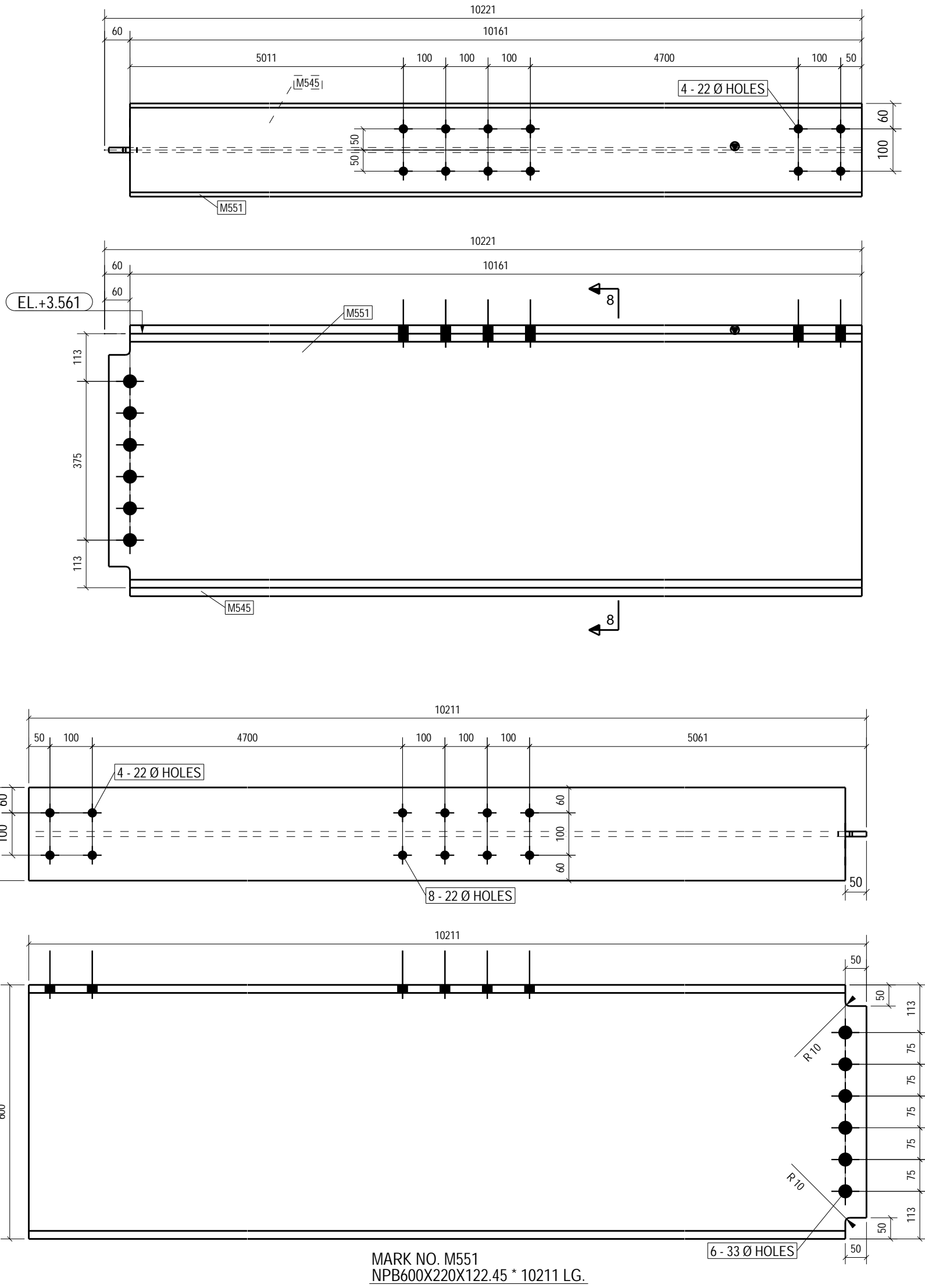
SIZE-A1

GRID LOCATION		
MH1-MR8	54-56/B	+3.581
MH1-MR8	54-56/E	+3.581

SUMMARY OF STEEL		
SR. No.	DESCRIPTION	TOTAL WT.
1	NPB600X220X122	2500.77
2	PLT 20 THK	1276.25
TOTAL IN KGS		3777.01

FIELD BOLT SUMMARY					
TOTAL QTY	UNIT QTY	BOLT DIA	BOLT GRADE	LENGTH	REMARK
12	6	30	10.9	85	Site
8	4	20	10.9	100	Site
16	8	20	10.9	100	Site

BILL OF MATERIALS									
ERECTION MARK.	ITEM NO.	MATL. SPCH.	SECTION	LENGTH IN mm.	REQD. NOS.	WEIGHT IN KGS. UNIT WT.	TOTAL WT.	ERE. NOS.	WT. FOR ALL EREC.
MH1-MR8	M551	E250 AB	NPB600X220X122.45	10211.2	1	1250.38	1250.38	2	3777.01
	M544	E250 AB	PL20'200	10161.2	1	319.06	319.06		
	M545	E250 AB	PL20'200	10161.2	1	319.06	319.06		
GRAND TOTAL									3777.01



NOTES:				
01. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METER U.N.O.				
02. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.				
03. ALL BUTT WELDS SHALL BE OF FULL PENETRATION.				
04. Use 10.9 BOLT GRADE UNLESS NOTED OTHERWISE MENTIONED IN ERECTION DRAWING.				
MINIMUM WELD SIZE FOR VARIOUS PLATE				
PLATE SIZE	8 mm & 10 mm	12 mm	16 mm & 20 mm	25 mm
WELD SIZE	6 mm	10 mm	12 mm	16 mm
28 mm & 32 mm				
36 mm & 40 mm				
45 mm & 50 mm				
25 mm				
02 NO CHANGE				
01 ISSUE FOR CONSTRUCTION				
00 ISSUE FOR CONSTRUCTION				
No DESCRIPTION				
DRN CHECKED APPROVED DATE				
PAT-IP-CHP-TH-100-0001				
MARKING DRAWINGS FOR TRACK HOPPER-1 & MH				
DRAWING NO. DRAWING TITLE				
REFERENCE DOCUMENTS / DRAWINGS				
CUSTOMER/PROJECT:				
NTPC-3x800MW PATRATU SUPER THERMAL POWER PROJECT				
EPC CONTRACTOR:				
BHARAT HEAVY ELECTRICALS LTD				
POWER SECTOR WESTERN REGION, NAGPUR				
SCALE:-				
AS SHOWN				
DETAILER:				
BANKAPUR ENGINEERS & CONSULTANTS PVT. LTD.				
FABRICATION CONTRACTOR:				
Bharat Heavy Electricals Limited				
Bharat Heavy Electricals Ltd.				
FSIP, JAGDISHPUR				
NAME DATE				
DRAWING TITLE :-				
DETAIL DRAWINGS FOR TRACK HOPPER-1 & MH				
DRN HP 11.11.2022				
DRAWING DESCRIPTION :-				
DETAIL DRAWINGS FOR MONORAIL OF MH-1				
CHD KJ 11.11.2022				
DRAWING DOCUMENT NO. :-				
PAT-IP-CHP-TH-999-0037				
SHEET - 5 OF 5				
REV.: 02				