

GRID LOCATION		
MH2-MR1	3-S/C-B	+22.100
MH2-MR2	4-S/C-X	+22.100
MH2-MR2	4-S/X-B	+22.100

SUMMARY OF STEEL		
SR. No.	DESCRIPTION	TOTAL WT.
1	ISA65X65X6	11.68
2	NPB600X220X122	2198.47
TOTAL IN KGS.		2210.15

FIELD BOLT SUMMARY				
TOTAL QTY	UNIT QTY	BOLT DIA	BOLT GRADE	LENGTH
6	3	16	10.9	65
8	8	20	10.9	75

BILL OF MATERIALS									
ERECTION MARK.	ITEM NO.	MATL. SPCL.	SECTION	LENGTH IN mm.	REQD. NOS.	WEIGHT IN KGS. UNIT WT.	TOTAL WT.	ERECTION NOS.	WT. FOR ALL EREC.
MH2-MR1	M188	E200 AB	NPB600X220X122.45	10663.7	1	1304.56	1304.56	1	1304.56
MH2-MR2	M195	E200 AB	NPB600X220X122.45	3650.0	1	446.95	446.95	2	893.90
M206	E200 AB	ISA65X65X6		500.0	2	5.84	11.68		
GRAND TOTAL									2210.15

SHEET 1 TO 8  
STAMPED

BHEL-INDUSTRIAL SYSTEMS GROUP (CIVIL)

☒ KEPT FOR INFORMATION.

☐ INCORPORATE ALL COMMENTS,RESUBMIT THE REVISED DRAWINGS

1) SITE /CONTRACTOR TO ENSURE THE COMPLIANCE OF ALL PREVIOUS COMMENTS AND PROCEED FOR FABRICATION

2) BHEL'S APPROVAL WILL NOT ABSOLVE CONTRACTOR FROM HIS RESPONSIBILITY TOWARDS CORRECTNESS OF DRAWING .CONTRACTOR SHALL BEAR THE TOTAL RESPONSIBILITY FOR MISMATCHES ,ERROR IN THE DRAWINGS

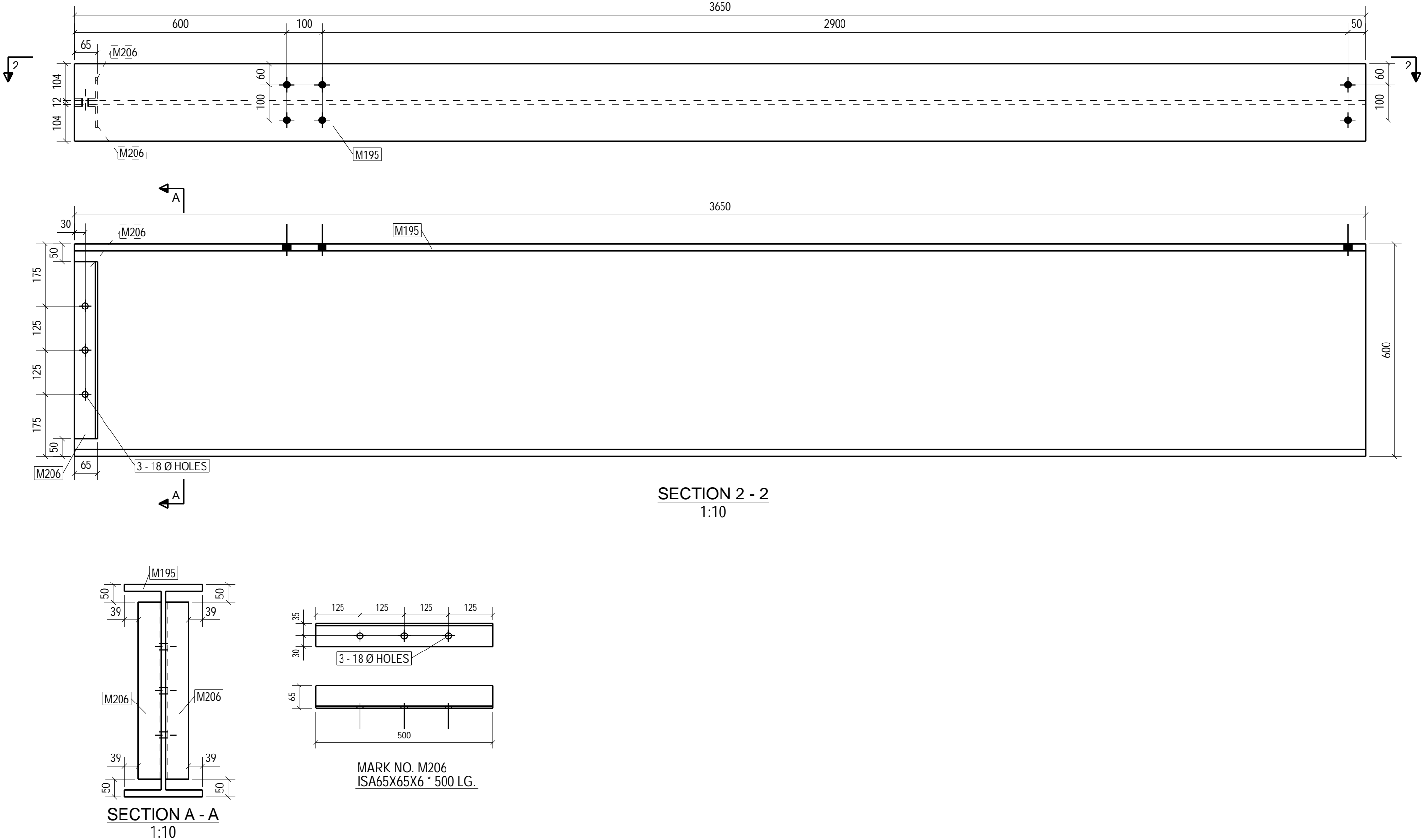
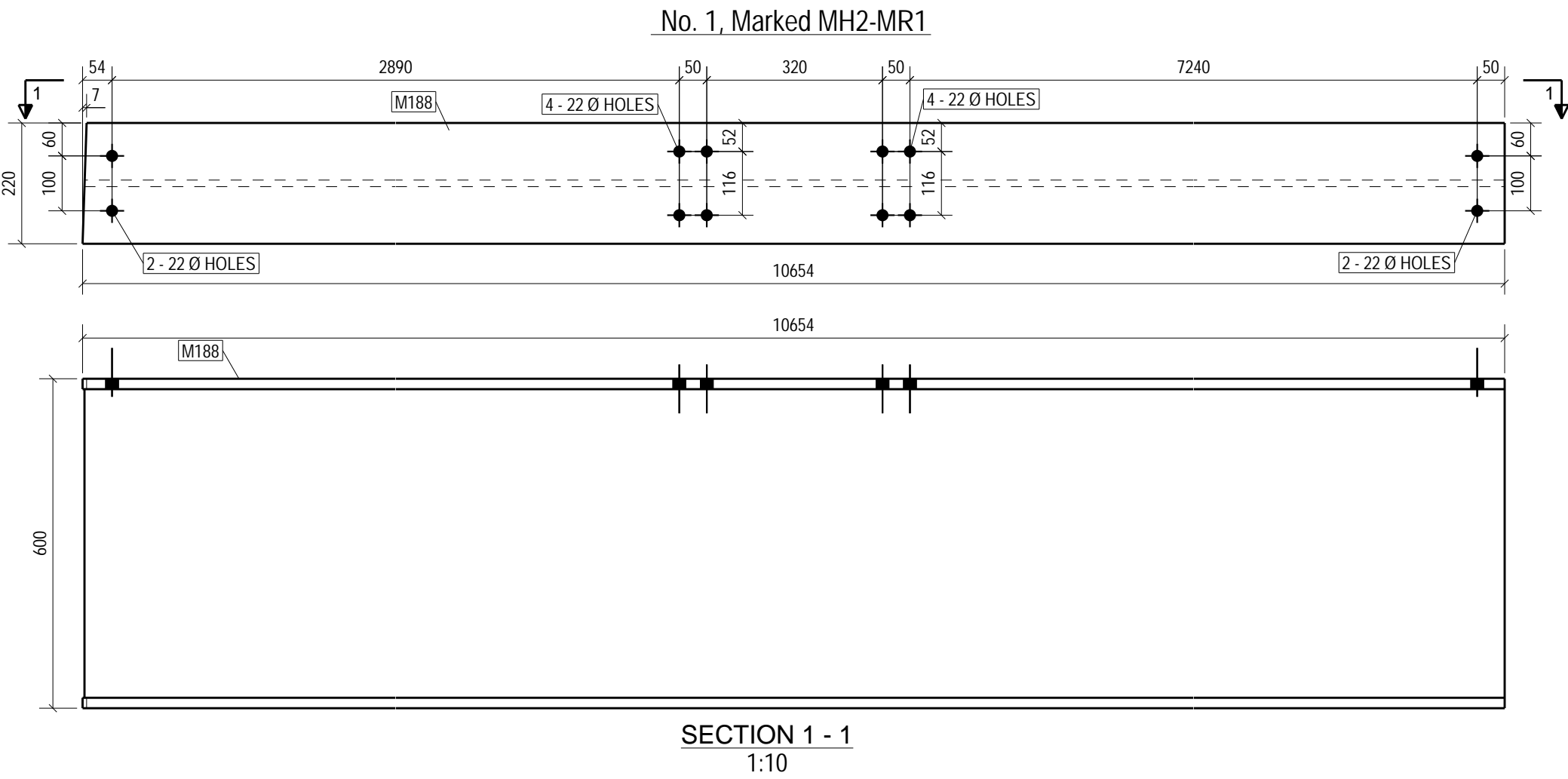
NAME

PRASANTH KUMAR RAI KG

SIGNATURE

---sd---

DATE



No. 2, Marked MH2-MR2

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
WELD SIZE	6 mm	10 mm	12 mm	16 mm	20 mm

00	ISSUE FOR CONSTRUCTION	SP	KJ	YG	10.12.2022
No	DESCRIPTION	DRN	CHECKED	APPROVED	DATE

PAT-IP-FGD-LSSY-100-2001	MARKING DRAWINGS OF LS STOCK YARD SHED - MH-2	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

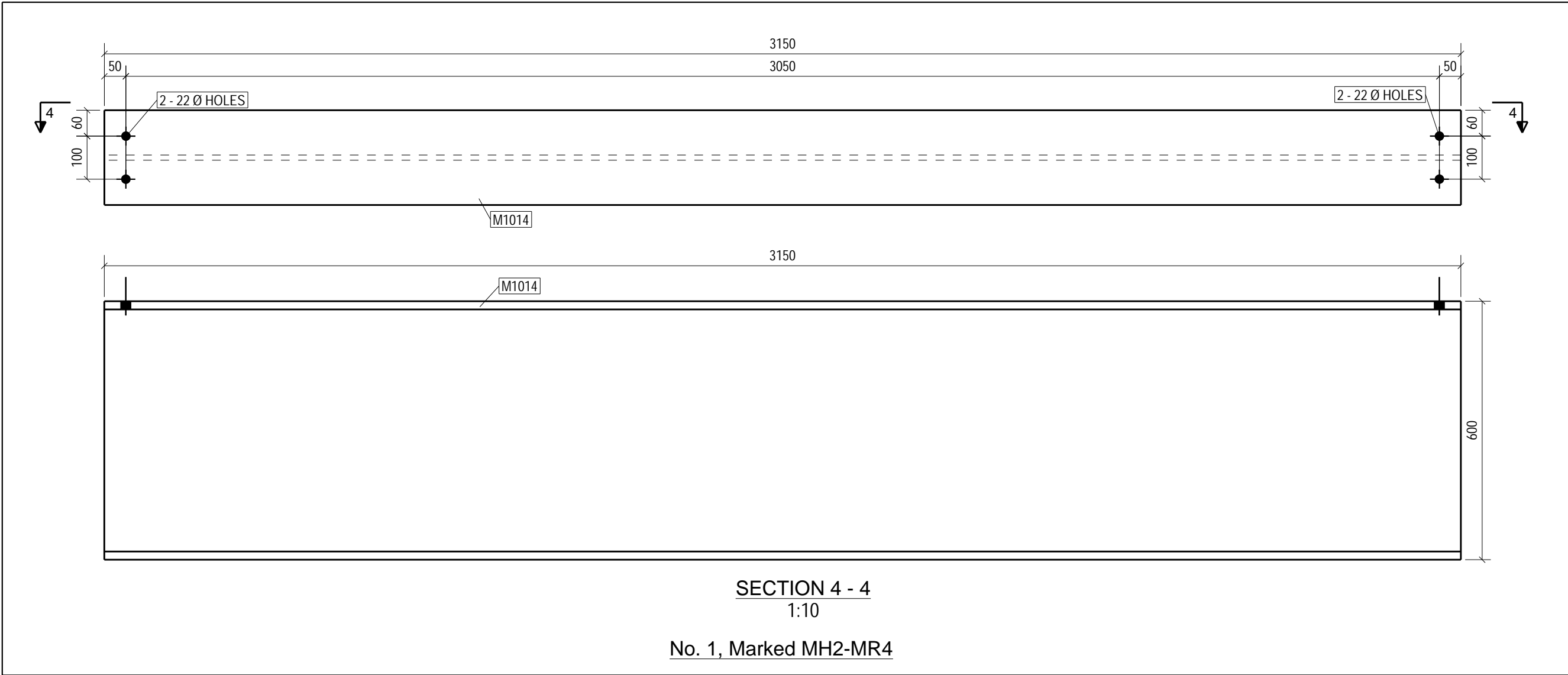
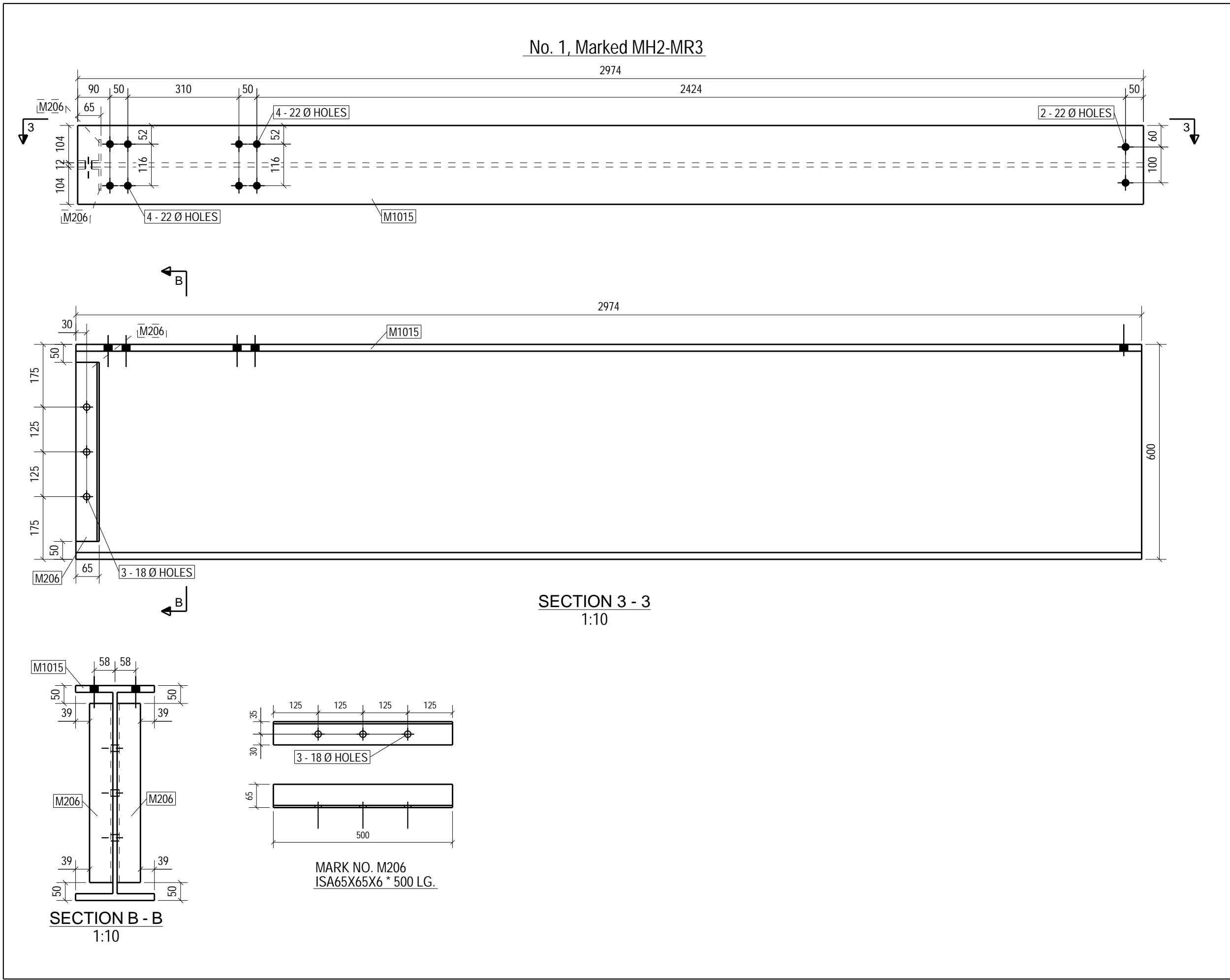
DETAILER:  
BANKAPUR ENGINEERS & CONSULTANTS PVT. LTD.

FABRICATION CONTRACTOR:  
BHARAT HEAVY ELECTRICALS LTD.  
FSIP, JAGDISHPUR

NAME	DATE	DRAWING TITLE :-
DRN	SP	10.12.2022
CHD	KJ	10.12.2022
APPD	YG	10.12.2022

DRAWING DESCRIPTION :-	DETAIL DRAWINGS FOR LS STOCK YARD SHED
DRAWING DOCUMENT NO. :-	PAT-IP-FGD-LSSY-999-2002
SHEET	01 OF 08
REV.:	00

GRID LOCATION		
MH2-MR3	1-1/X-B	+22.100
MH2-MR4	1-2/X-B	+22.100



SUMMARY OF STEEL		
SR. No.	DESCRIPTION	TOTAL WT.
1	ISA65X65X6	5.84
2	NPB600X220X122	749.90
TOTAL IN KGS.		755.74

FIELD BOLT SUMMARY		
TOTAL QTY	UNIT QTY	BOLT DIA
3	3	16
8	8	20

BOLT GRADE	LENGTH	REMARK
10.9	65	Workshop
10.9	75	Site

BILL OF MATERIALS									
ERECTION MARK.	ITEM NO.	MATL. SPCL.	SECTION	LENGTH IN mm.	REQD. NOS.	WEIGHT IN KGS. UNIT WT.	TOTAL WT.	ERECTION NOS.	WT. FOR ALL EREC.
MH2-MR3									
	M1015	E200 AB	NPB600X220X122.45	2974.0	1	364.17	364.17	1	370.81
	M206	E200 AB	ISA65X65X6	500.0	2	2.92	5.84		
MH2-MR4									
	M1014	E200 AB	NPB600X220X122.45	3150.0	1	385.72	385.72	1	385.72
GRAND TOTAL									755.74

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

00	ISSUE FOR CONSTRUCTION	SP	KJ	YG	10.12.2022
No	DESCRIPTION	DRN	CHECKED	APPROVED	DATE

PAT-IP-FGD-LSSY-100-2001	MARKING DRAWINGS OF LS STOCK YARD SHED - MH-2	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.  
FSP, JAGDISHPUR

NAME	DATE	DRAWING TITLE :-	
DRN	SP	10.12.2022	DETAIL DRAWINGS FOR LS STOCK YARD SHED
CHD	KJ	10.12.2022	DRAWING DESCRIPTION :-
			DETAIL DRAWINGS FOR MONORAIL - MH-2
APPD	YG	10.12.2022	DRAWING DOCUMENT NO. :-
			PAT-IP-FGD-LSSY-999-2002
SHEET		02 OF 08	REV.:- 00

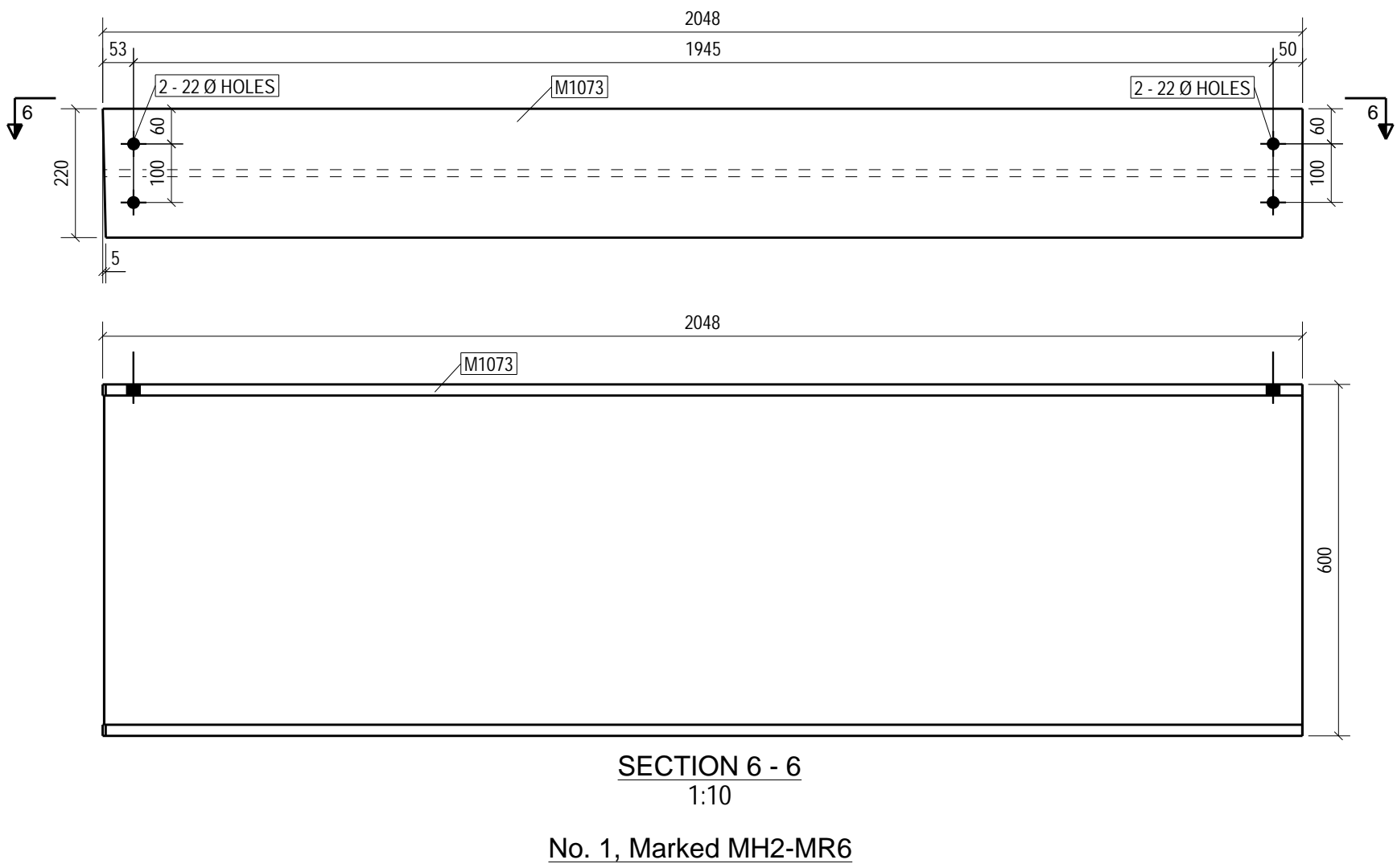
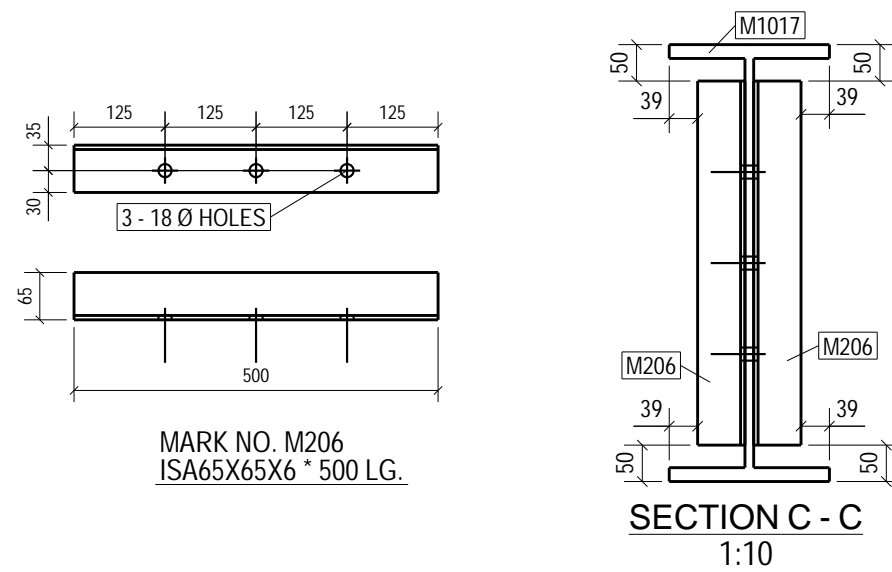
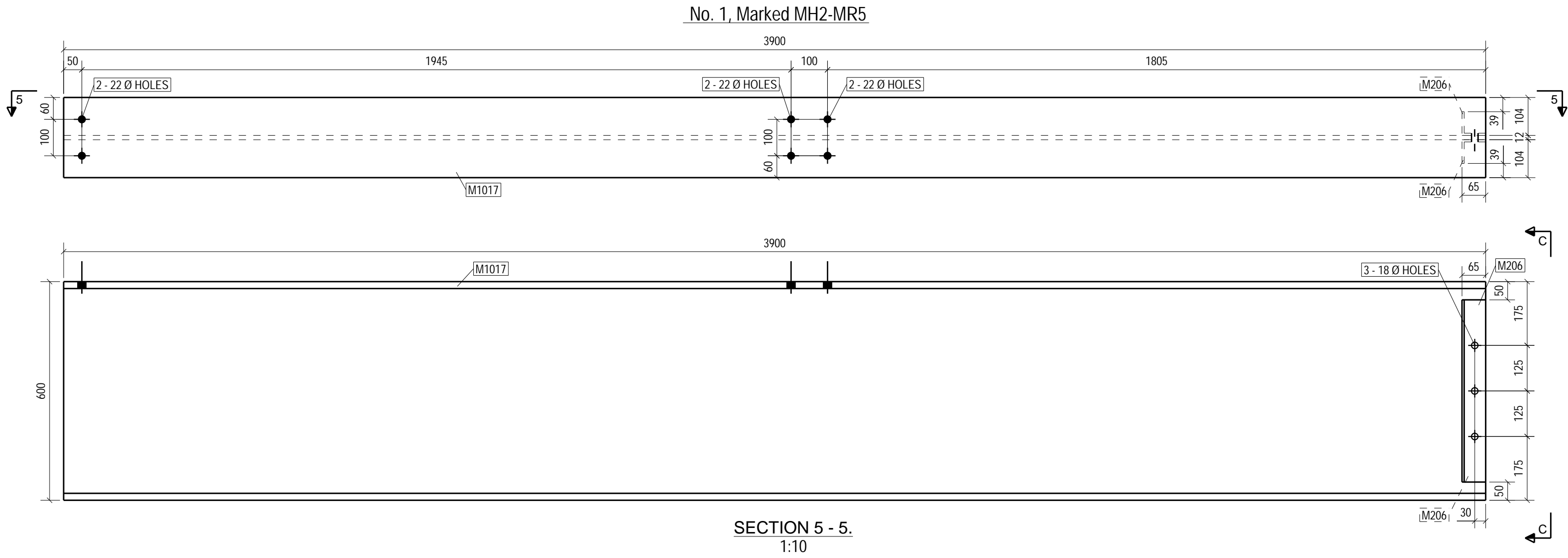
SIZE-A1

GRID LOCATION		
MH2-MR6	1-2/C-X	+22.100
MH2-MR5	1-2/X-B	+22.100

SUMMARY OF STEEL		
SR. No.	DESCRIPTION	TOTAL WT.
1	ISA65X65X6	5.84
2	NPB600X220X122	728.32
TOTAL IN KGS.		734.16

FIELD BOLT SUMMARY				
TOTAL QTY	UNIT QTY	BOLT DIA	BOLT GRADE	LENGTH
3	3	16	10.9	65

BILL OF MATERIALS									
ERECTION MARK.	ITEM NO.	MATL. SPCL.	SECTION	LENGTH IN mm.	REQD. NOS.	WEIGHT IN KGS. UNIT WT.	TOTAL WT.	ERECTION NOS.	WT. FOR ALL EREC.
MH2-MR5						453.40		1	453.40
	M1017	E250 AB	NPB600X220X122.45	3900.0	1	477.56	477.56		
	M206	E250 AB	ISA65X65X6	500.0	2	2.92	5.84		
MH2-MR6						250.75		1	250.75
	M1073	E250 AB	NPB600X220X122.45	3047.5	1	250.75	250.75		
GRAND TOTAL									734.16



NOTES:

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04. Use 10.9 BOLT GRADE UNLESS NOTED OTHERWISE MENTIONED IN ERECTION DRAWING.

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

00	ISSUE FOR CONSTRUCTION	SP	KJ	YG	10.12.2022
No	DESCRIPTION	DRN	CHECKED	APPROVED	DATE

PAT-IP-FGD-LSSY-100-2001	MARKING DRAWINGS OF LS STOCK YARD SHED - MH-2	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:

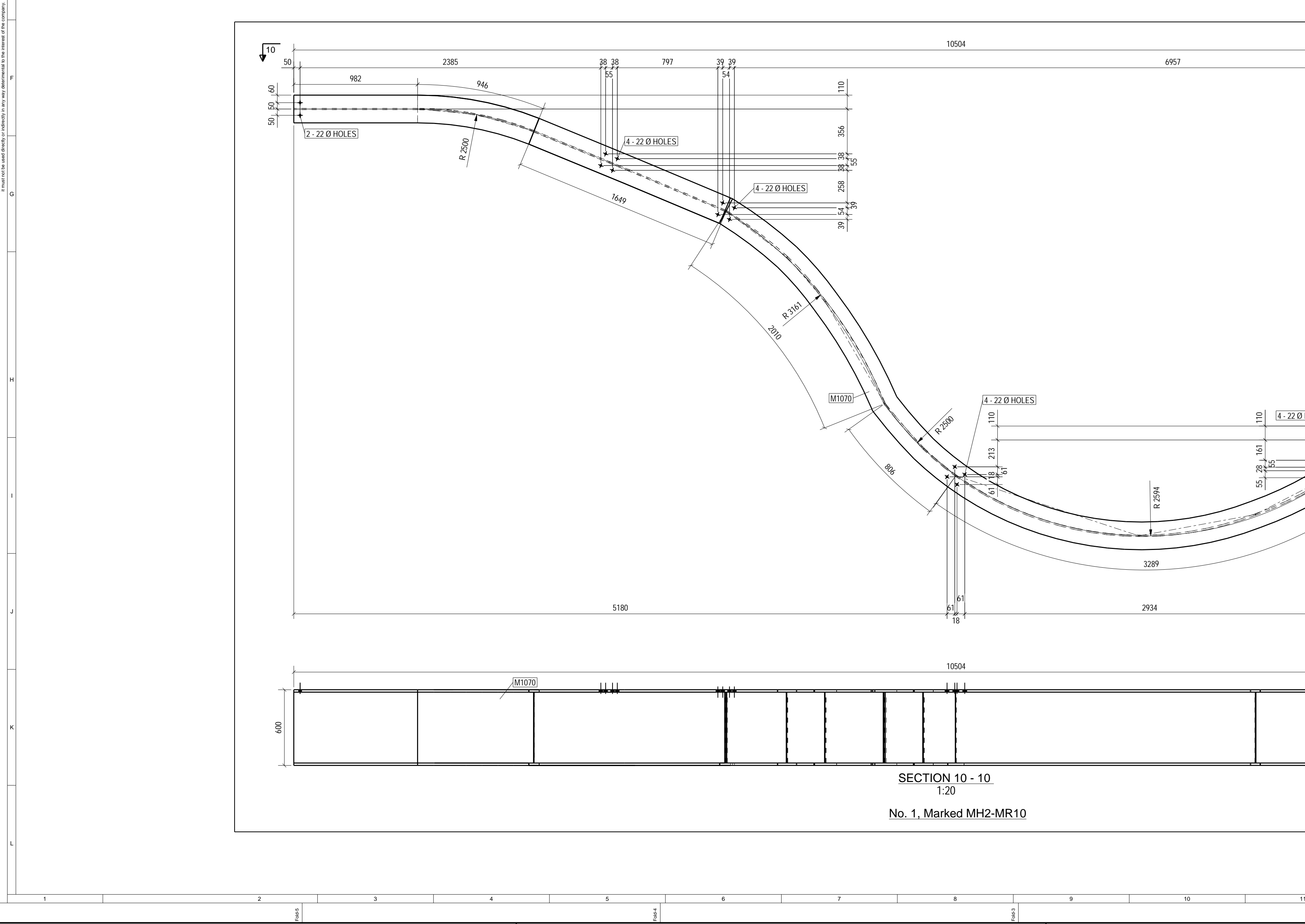
भारत हीवी इलेक्ट्रिकल्स लिमिटेड  
BHARAT HEAVY ELECTRICALS LTD.  
FISP, JAGDISHPUR

NAME	DATE	DRAWING TITLE :-
DRN	SP	10.12.2022
CHD	KJ	10.12.2022
APPD	YG	10.12.2022

DRAWING DESCRIPTION :-	DETAIL DRAWINGS FOR MONORAIL - MH-2
DRAWING DOCUMENT NO. :-	PAT-IP-FGD-LSSY-999-2002
SHEET	03 OF 08
REV.:	00







NOTES:

01. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METER U.N.O.


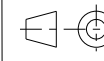

02. THIS DRAWING IS NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.

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	30 mm
00	ISSUE FOR CONSTRUCTION			SP	KJ	YG	10.12.2022
No	DESCRIPTION			DRN	CHECKED	APPROVED	DATE
PAT-IP-FGD-LSSY-1001-001				MARKING DRAWINGS OF LS STOCK YARD SHED - MH-2			00
DRAWING NO.				DRAWING TITLE			REV
REFERENCE DOCUMENTS / DRAWINGS							

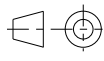

CUSTOMER PROJECT:  
NTPC-3x800MW PATRATU SUPER THERMAL POWER PROJECT

EPC CONTRACTOR:	BHARAT HEAVY ELECTRICALS LTD POWER SECTOR WESTERN REGION, NAGPUR	SCALE: AS SHOWN
DETAILER:	<div><div><div>BANKAPUR ENGINEERS &amp; CONSULTANTS PVT. LTD.</div></div><div></div></div>	
FABRICATOR CONTRACTOR:	<div><div><div>भारत हवी इलेक्ट्रिकल्स लिमिटेड BHARAT HEAVY ELECTRICALS LTD. FSIP, JAGDISHPUR</div></div></div>	

NAME		DATE	DRAWING TITLE -	REVISION	
DRN	SP	10.12.2022	DETAIL DRAWINGS FOR LS STOCK YARD SHED		
CHD	KJ	10.12.2022	DETAIL DRAWINGS FOR MONORAIL - MH-2		
APPD	YG	10.12.2022	DRAWING DOCUMENT NO. - PAT-IP-FGD-LSSY-999-2002	SHEET - 05 OF 08	REV: 00

A
B
C
D
E
F
G
H
I
J
K
L

FIELD BOLT SUMMARY	
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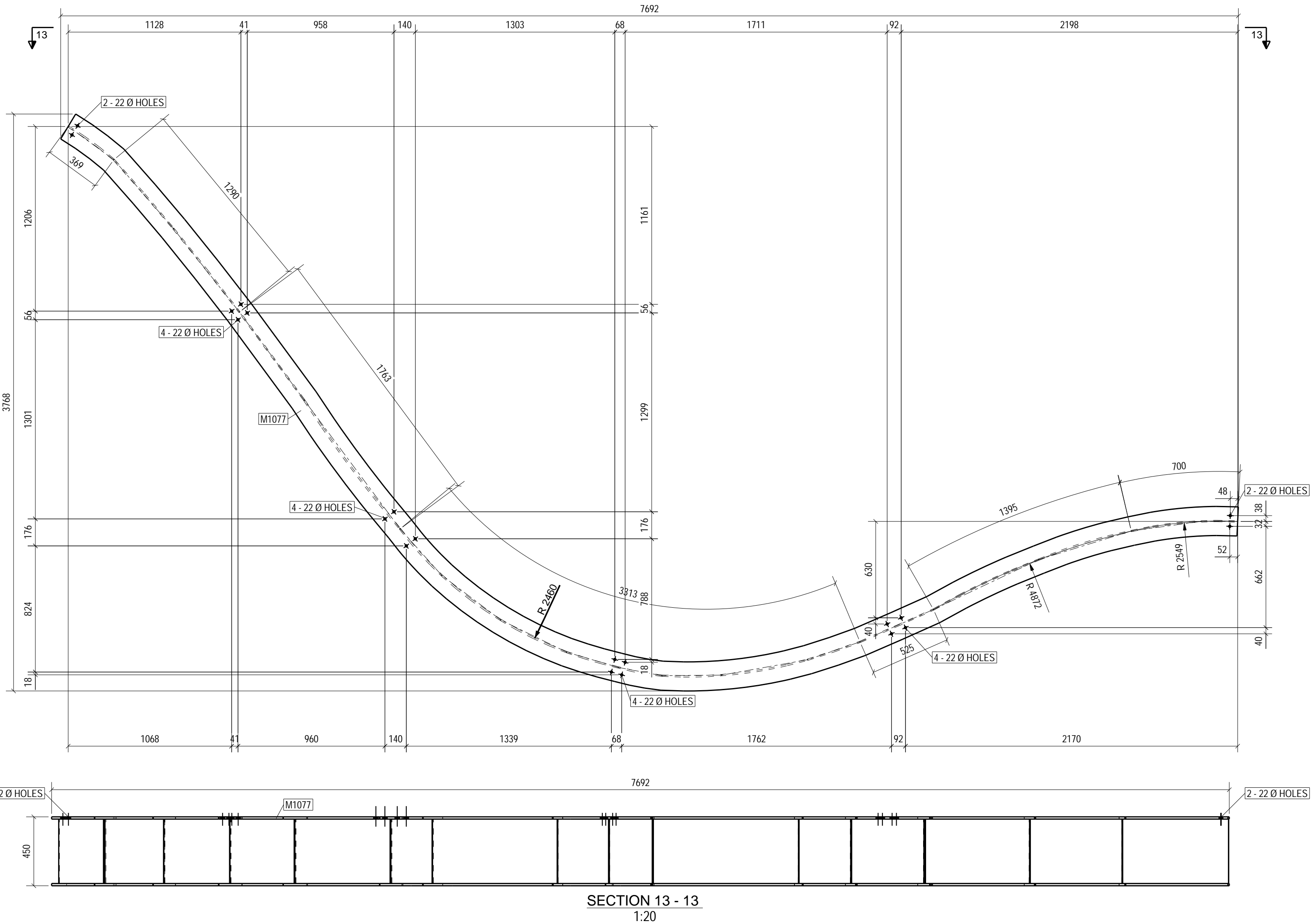
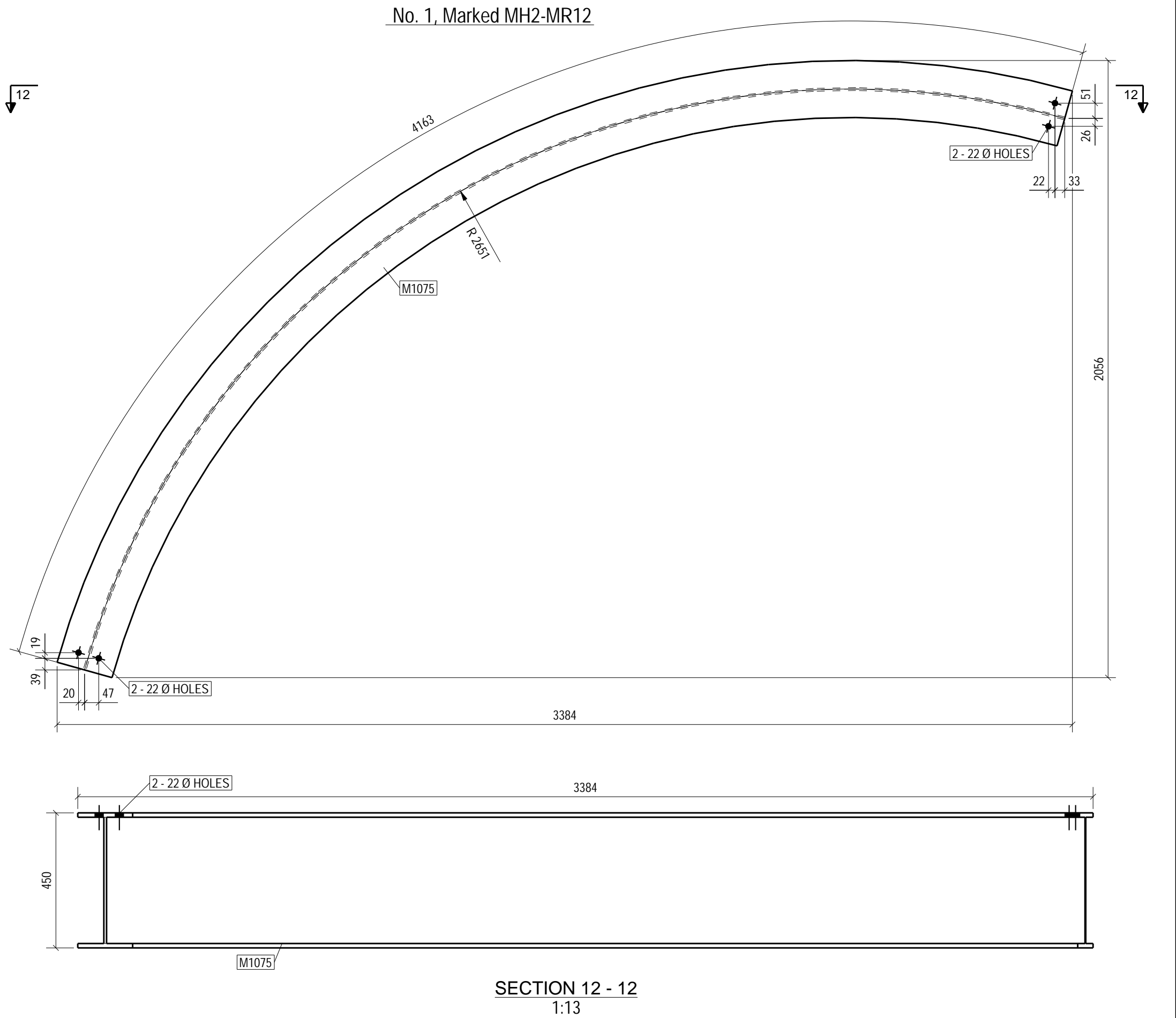
NOTES:							
01. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METER U.N.O.							
02. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.							
03. ALL BUTT WELDS SHALL BE OF FULL PENETRATION.							
04. USE 10.9 BOLT GRADE UNLESS NOTED OTHERWISE IN ERECTION DRAWING.							
		MINIMUM WELD SIZE FOR VARIOUS PLATE					
PLATE SIZE	8 mm & 10 mm	12 mm	16 mm & 20 mm	25 mm	30 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
00	ISSUE FOR CONSTRUCTION			SP	K/J	YG	10.12.2022
No	DESCRIPTION			DRN	CHECKED	APPROVED	DATE
PAT-IP-FGD-LSSV-100-2001	MARKING DRAWINGS OF LS STOCK YARD SHED - MH-2						00
DRAWING NO.	DRAWING TITLE						REV
REFERENCE DOCUMENTS / DRAWINGS							
CUSTOMER PROJECT:							
<b>NTPC-3x800MW PATRTRA SUPER THERMAL POWER PROJECT</b>							
EPC CONTRACTOR:	BHARAT HEAVY ELECTRICALS LTD POWER SECTOR WESTERN REGION, NAGPUR					SCALE:- AS SHOWN	
DETAILER:	BANKAPUR ENGINEERS & CONSULTANTS PVT. LTD.						
FABRICATOR CONTRACTOR:							
 <b>BHARAT HEAVY ELECTRICALS LTD.</b> FSP, JAGDISHPUR		भारत ही शक्तिवत्य लिमिटेड <b>BHARAT HEAVY ELECTRICALS LTD.</b> FSP, JAGDISHPUR					
NAME		DRAWING TITLE :-					
DRN		SP		10.12.2022		DETAIL DRAWINGS FOR LS STOCK YARD SHED	
						DRAWING DESCRIPTION :-	
CHD		KJ		10.12.2022		DETAIL DRAWINGS FOR MONORAIL - MH-2	
AFPD		YG		10.12.2022		DRAWING DOCUMENT NO. :-	
						PAT-IP-FGD-LSSV-999-2002	
						SHEET :- 06 OF 08	
						REV:- 00	

GRID LOCATION		
MH2-MR13	2-3/D-X	+8.500
MH2-MR12	2-3/X-B	+8.500

SUMMARY OF STEEL	
Sr. No.	DESCRIPTION
1	NPB450X190X77
TOTAL IN KGS.	

FIELD BOLT SUMMARY	
TOTAL QTY	UNIT QTY
6	6
12	12
4	4

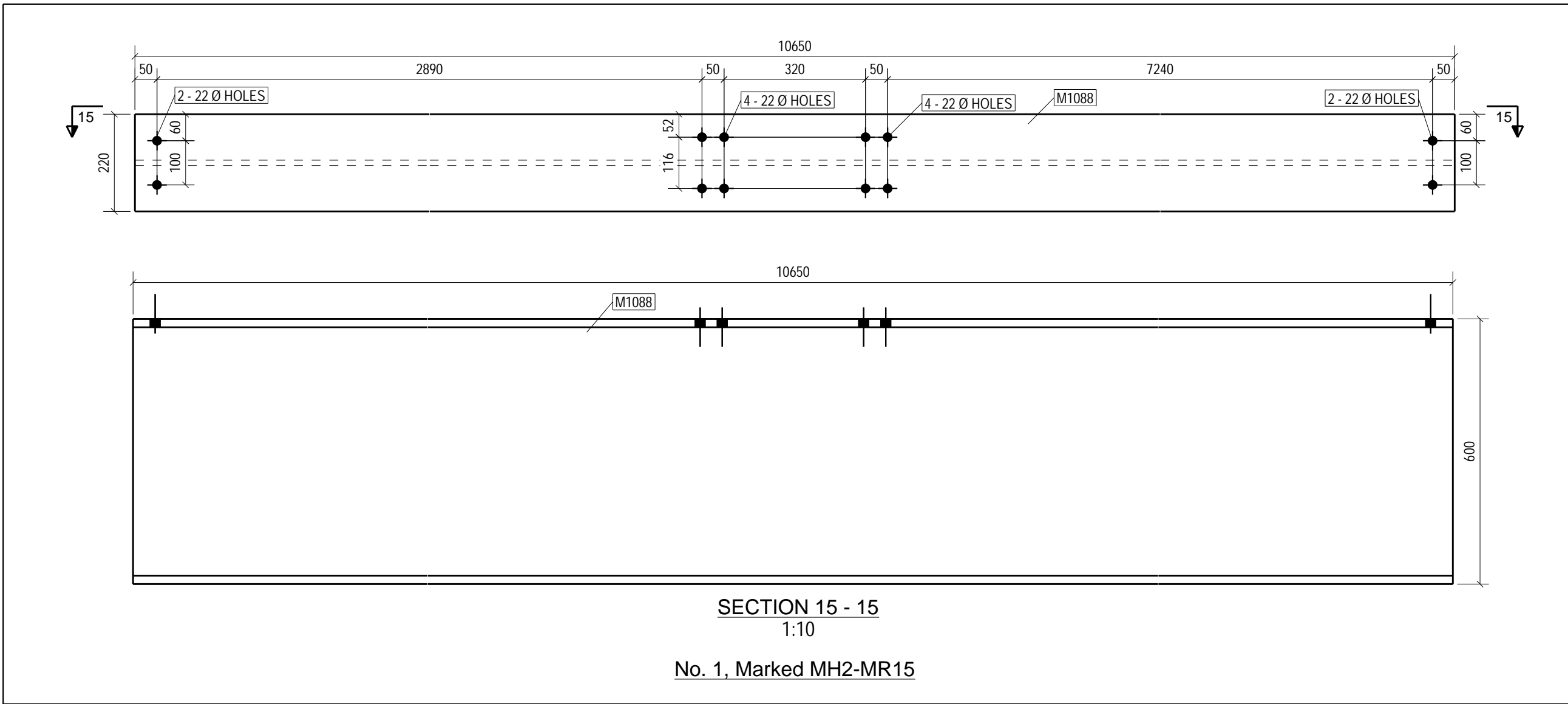
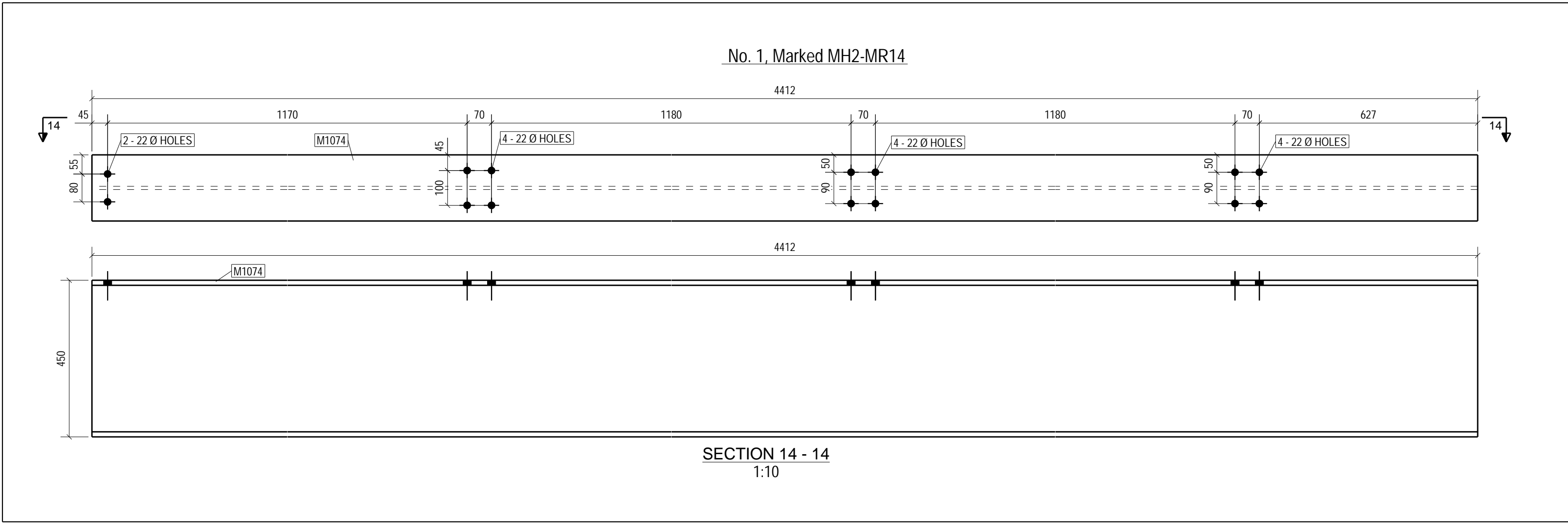
BILL OF MATERIALS									
ERECTION MARK.	ITEM NO.	MATL. SPCL.	SECTION	LENGTH IN mm.	REQD. NOS.	WEIGHT IN KGS. UNIT WT.	TOTAL WT.	ERE. NOS.	WT. FOR ALL EREC.
MH2-MR12	M1075	E200 AB	NPB450X190X77.57	4013.7	1	311.36	311.36	1	311.36
MH2-MR13	M1077	E200 AB	NPB450X190X77.57	5164.6	1	710.93	710.93	1	710.93
GRAND TOTAL									1022.29



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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
WELD SIZE	6 mm	10 mm	12 mm
REFERENCE DOCUMENTS / DRAWINGS			
CUSTOMER/PROJECT:			
NTPC-3x800MW PATRATU SUPER THERMAL POWER PROJECT			
EPC CONTRACTOR:			
BHARAT HEAVY ELECTRICALS LTD POWER SECTOR WESTERN REGION, NAGPUR			
DETAILER:			
BANKAPUR ENGINEERS & CONSULTANTS PVT. LTD.			
FABRICATION CONTRACTOR:			
BHARAT HEAVY ELECTRICALS LTD. FSP, JAGDISHPUR			
DRAWING TITLE :-			
DETAIL DRAWINGS FOR LS STOCK YARD SHED			
DRAWING DESCRIPTION :-			
DETAIL DRAWINGS FOR MONORAIL - MH-2			
DRAWING DOCUMENT NO. :-			
PAT-IP-FGD-LSSY-999-2002			
SHEET - 07 OF 08			
REV.: 00			

GRID LOCATION		
MH2-MR14	3-4/C-B	+8.500
MH2-MR15	3-5/C-X	+22.100

SUMMARY OF STEEL			FIELD BOLT SUMMARY						BILL OF MATERIALS										
SR. No.	DESCRIPTION	TOTAL WT.	TOTAL QTY	UNIT QTY	BOLT DIA	BOLT GRADE	LENGTH	REMARK	ERECTION MARK.	ITEM NO.	MATL. SPCL.	SECTION	LENGTH IN mm.	REQD. NOS.	WEIGHT IN KGS.		ERECTION NOS.	WT. FOR ALL. EREC.	
1	NPB450X190X77.	342.28	12	12	20	10.9	70	Site	MPCMR14	M1074	E200 AB	NPB450X190X77.57	4412.3	1	342.28	342.28	1	342.28	
2	NPB600X220X122	1304.12	8	8	20	10.9	75	Site							MPCMR15	M1088	E200 AB	NPB600X220X122.45	10650.0
TOTAL IN KGS.		1646.39	GRAND TOTAL																



NOTES:			
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MINIMUM WELD SIZE FOR VARIOUS PLATE			
PLATE SIZE	8 mm & 10 mm	12 mm	16 mm & 20 mm
WELD SIZE	6 mm	10 mm	12 mm
00 ISSUE FOR CONSTRUCTION			
No	DESCRIPTION	SP	KJ
PAT-IP-FGD-LSSY-100-2001			
MARKING DRAWINGS OF LS STOCK YARD SHED - MH-2			
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			
DETAILER:			
BANKAPUR ENGINEERS & CONSULTANTS PVT. LTD.			
FABRICATION CONTRACTOR:			
BHARAT HEAVY ELECTRICALS LTD.			
FSIP, JAGDISHPUR			
DRAWING TITLE :-			
DETAIL DRAWINGS FOR LS STOCK YARD SHED			
DRAWING DESCRIPTION :-			
DETAIL DRAWINGS FOR MONORAIL - MH-2			
DRAWING DOCUMENT NO. :-			
PAT-IP-FGD-LSSY-999-2002			
SHEET - 08 OF 08			
REV.: 00			