



फैक्स / Fax : 91-0522-2452494
टेलीफोन / Tele: 0522- 2462638



भारत सरकार - रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ - 226011

Government of India - Ministry of Railways
Research Designs & Standards Organisation
Lucknow - 226011

पत्र सं० एमडब्ल्यू/बोस्टएचएसएम२

दिनांक: 16.05.2023

All PCME's/ IR

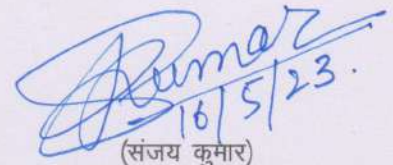
विषय : Reduction in height of doors in all BOST variant wagons.

संदर्भ : Railway Board's letter no. 2022/M(N)/951/Wagon_Door(E-3396746), dated 11.05.2023.

- 1.0 A cross section of BOST variant wagons with doors open and superimposed on the IRSOD-2022 is attached as Annexure-A. It can be seen that instances of doors hitting fixed structure can only occur, if the door opens on run while crossing the fixed structure.
- 2.0 After due deliberations, Railway Board has issued instructions as in reference above (copy enclosed). It has been decided, in consultation with Traffic Dte. of Railway Board, to reduce height of door from 777 mm to 544 mm of all the doors i.e. 100% in all the BOST variants wagons.
- 3.0 All BOST variants wagons doors have to be replaced by a lower height door to drawing no. WD-23018-S-01 (attached).
- 4.0 The material of the door shall be mild steel for all variants of BOST type wagons.
- 5.0 For fitment of reduced height door, the door opening shall be reduced by 233 mm from the top by providing additional door stiffening crossbar as shown in the drawing WD-23018-S-01. Procedure for reducing door height shown in "SKETCH-WD/III-05/23" (attached).
- 6.0 The design of gravity cotter (grip length and slot size) and location of cotter rivets have been modified and mentioned in the above drawing no. WD-23018-S-01.
- 7.0 The door check spring shall also be removed and new check spring shall be provided as per item no. 13 of drawing no. WD-23018-S-01.
- 8.0 The above activity to be carried out during POH/ROH/ Sickline attention of wagons.
- 9.0 Wagon having reduced height door shall be marked as "REDUCED HEIGHT" above the doorway stiffing crossbar.
- 10.0 The progress of modification of wagons to be entered in the Google Sheet link given below:

https://docs.google.com/spreadsheets/d/1yK-YLR71X1xX4dM1Hcm9zCKz06YyIZy0ugwf-ai2_qc/edit?usp=sharing

संलग्नक : As above

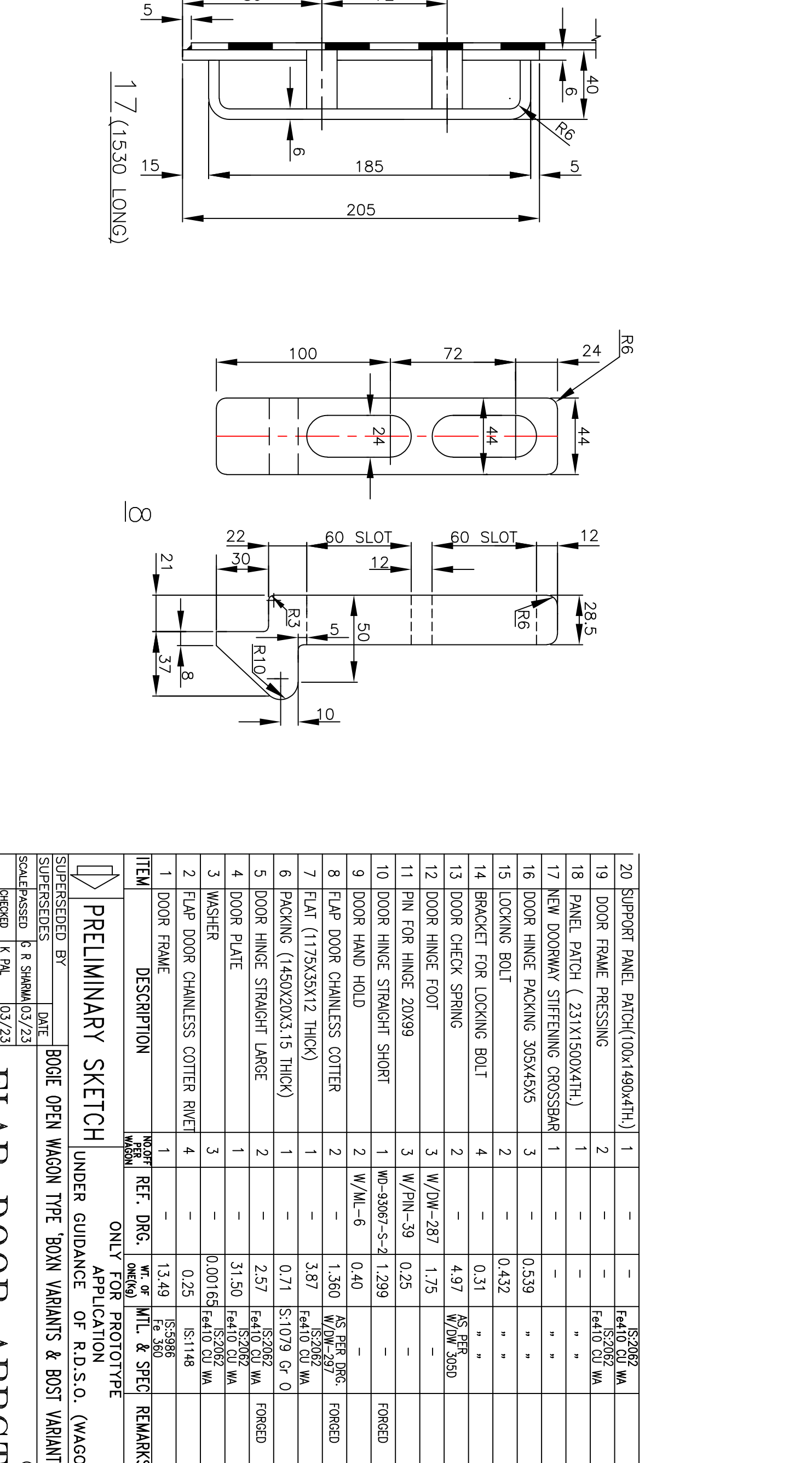
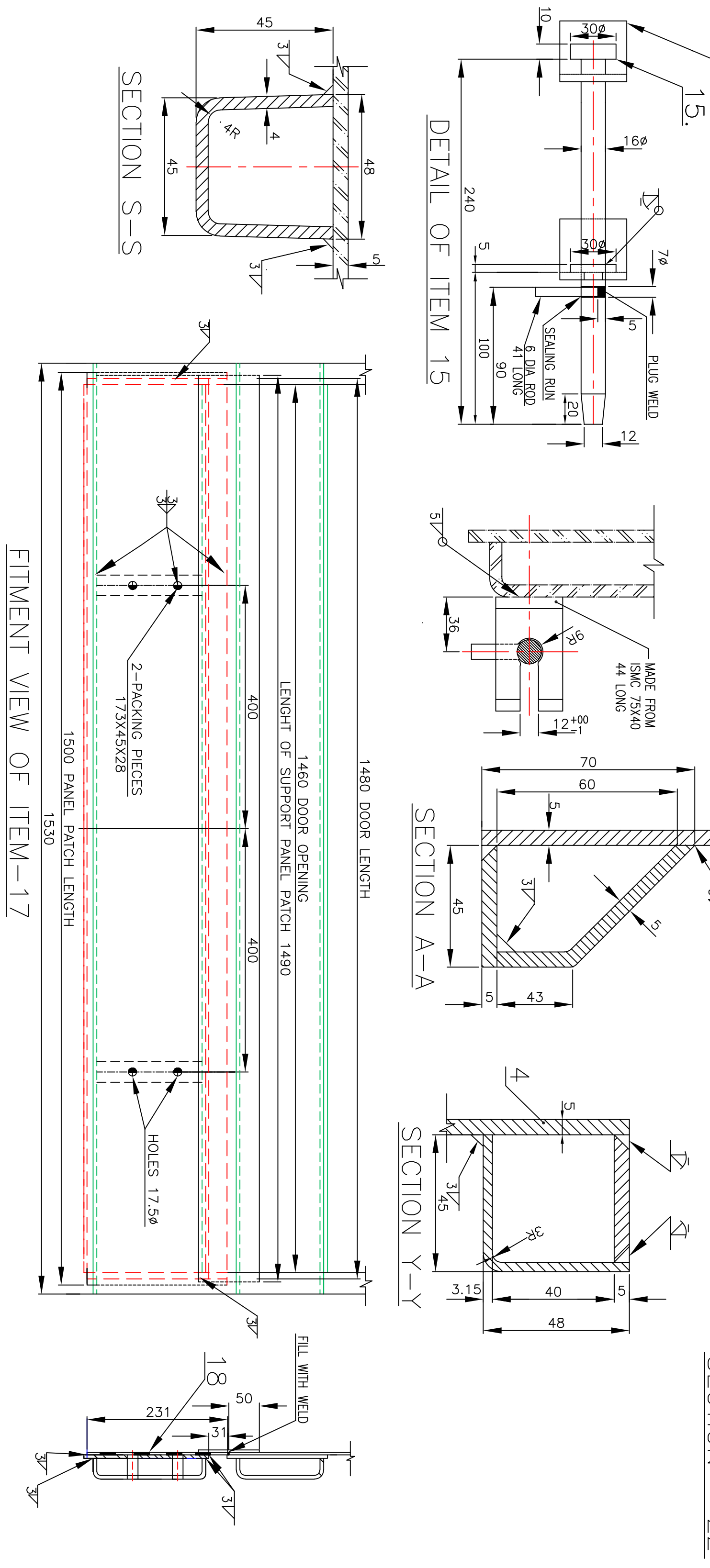
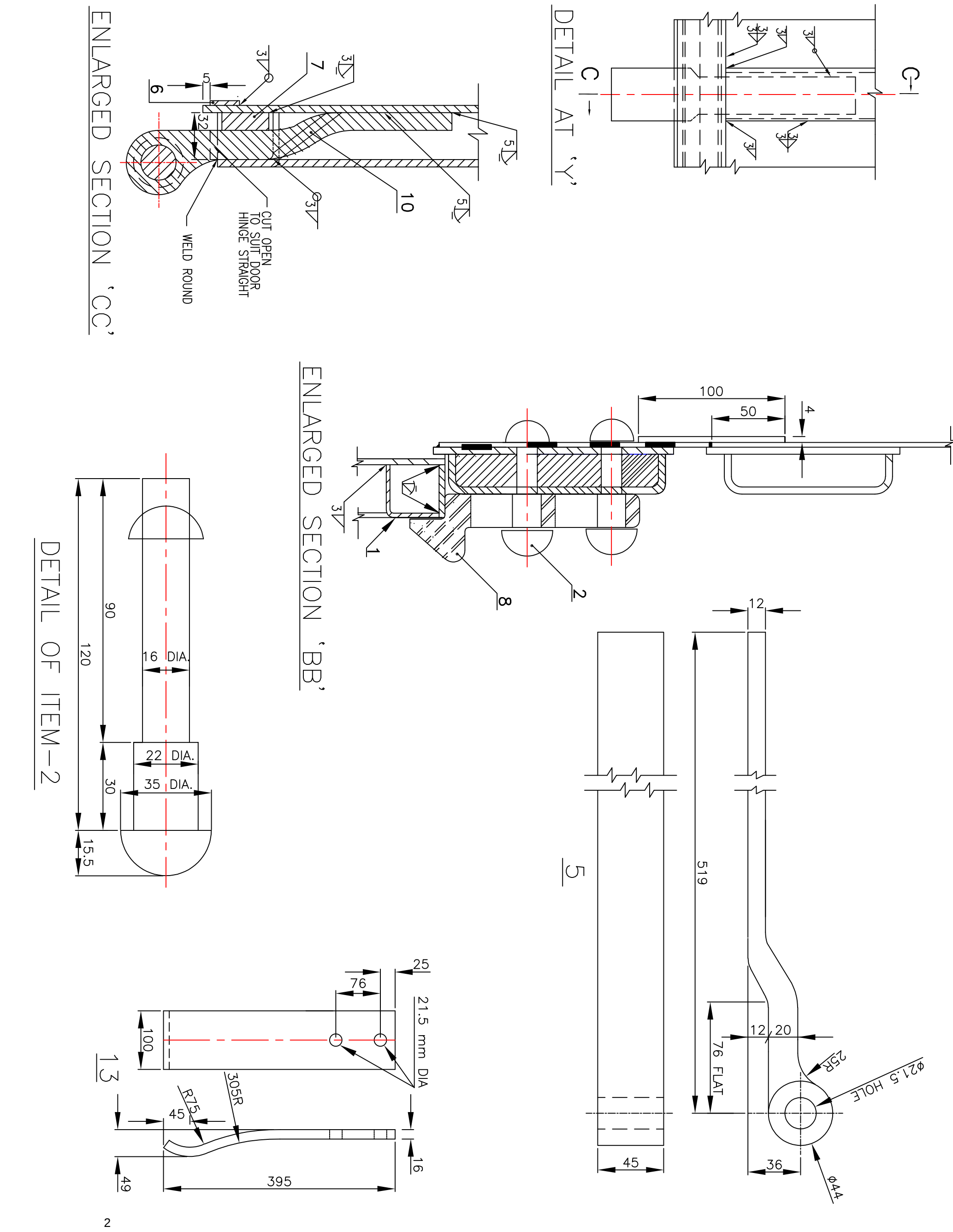
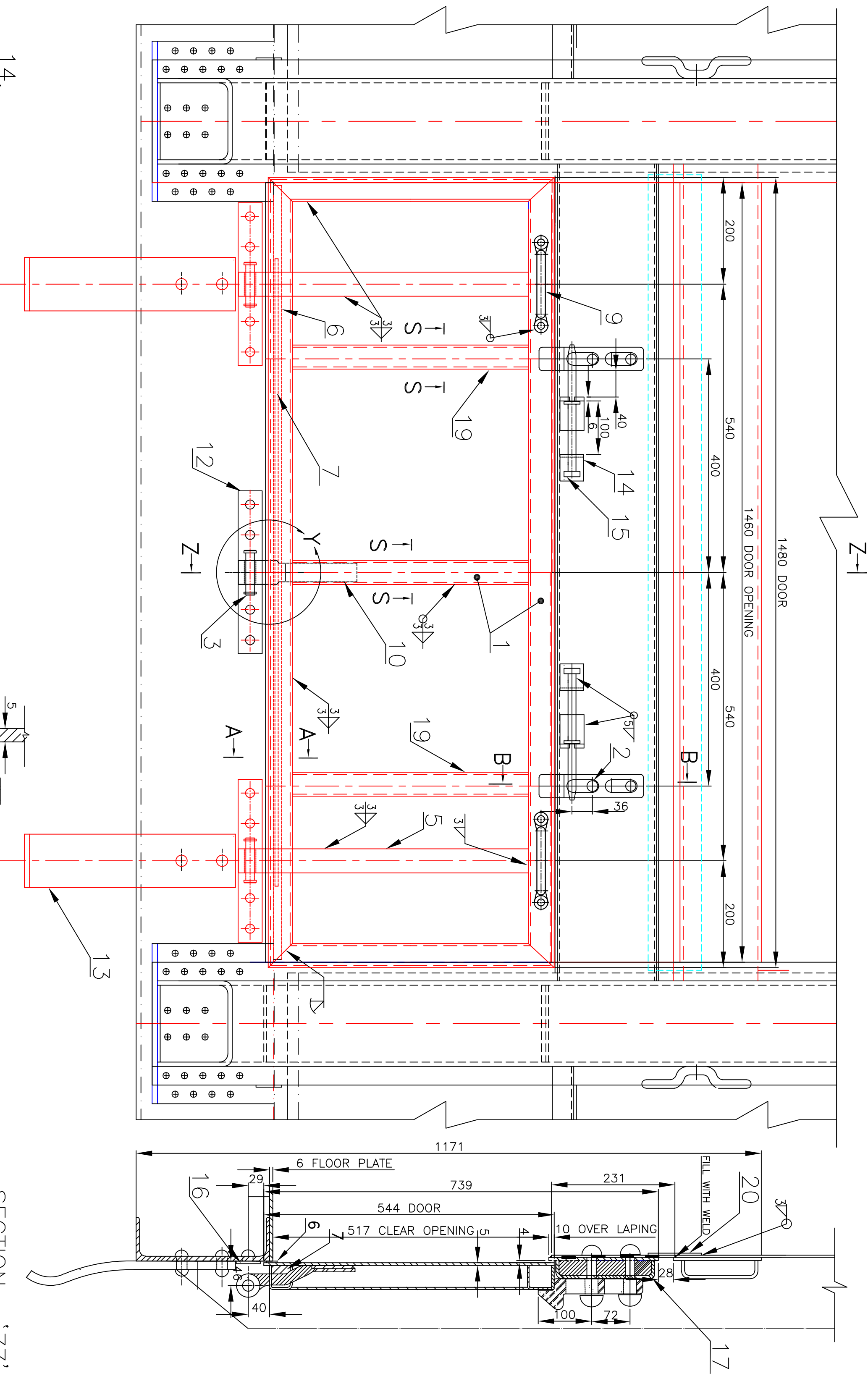

(संजय कुमार)

निदेशक/माल डिब्बा

कृते महा निदेशक/माल डिब्बा

ई-मेल:-dirwagonwd3@gmail.com

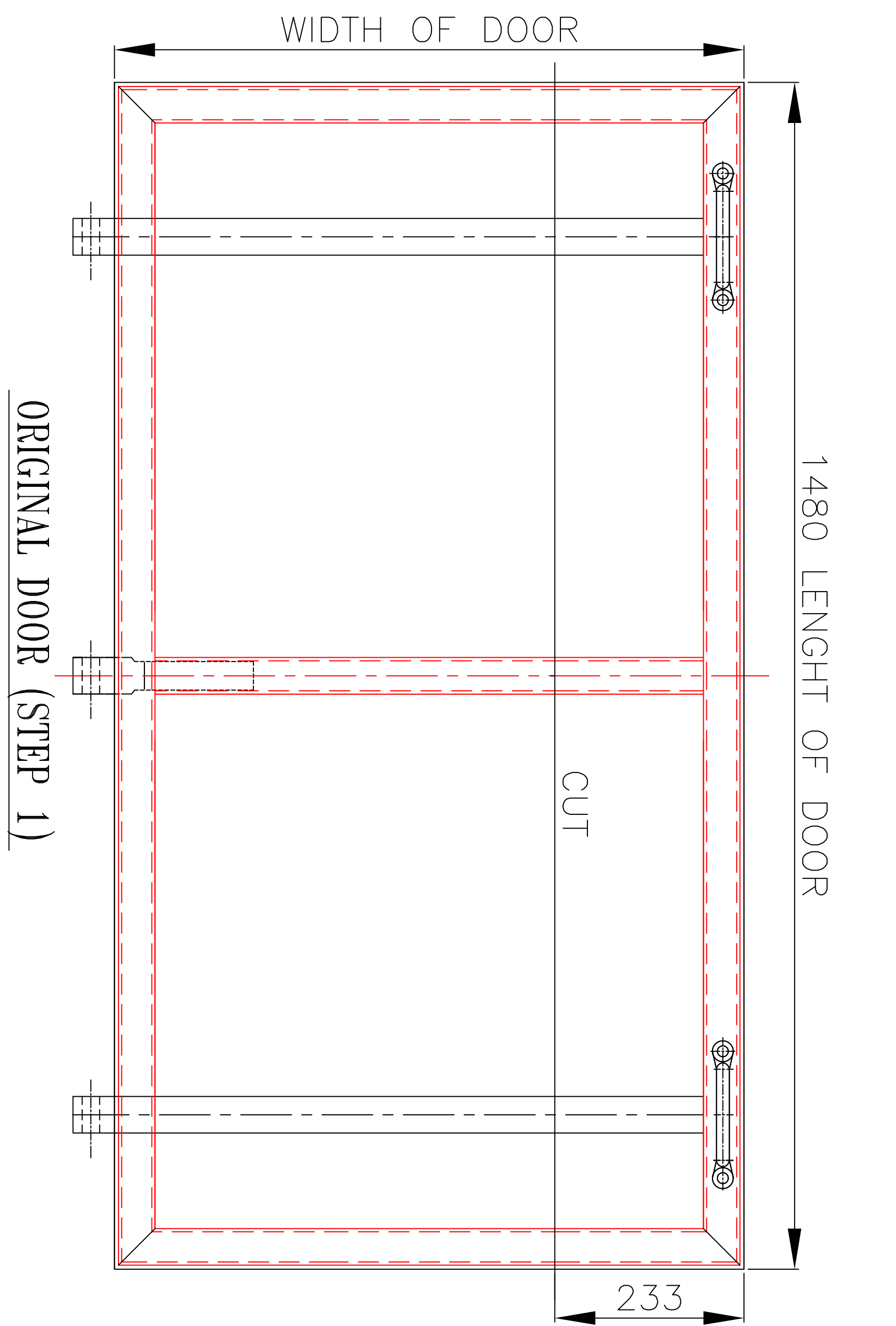
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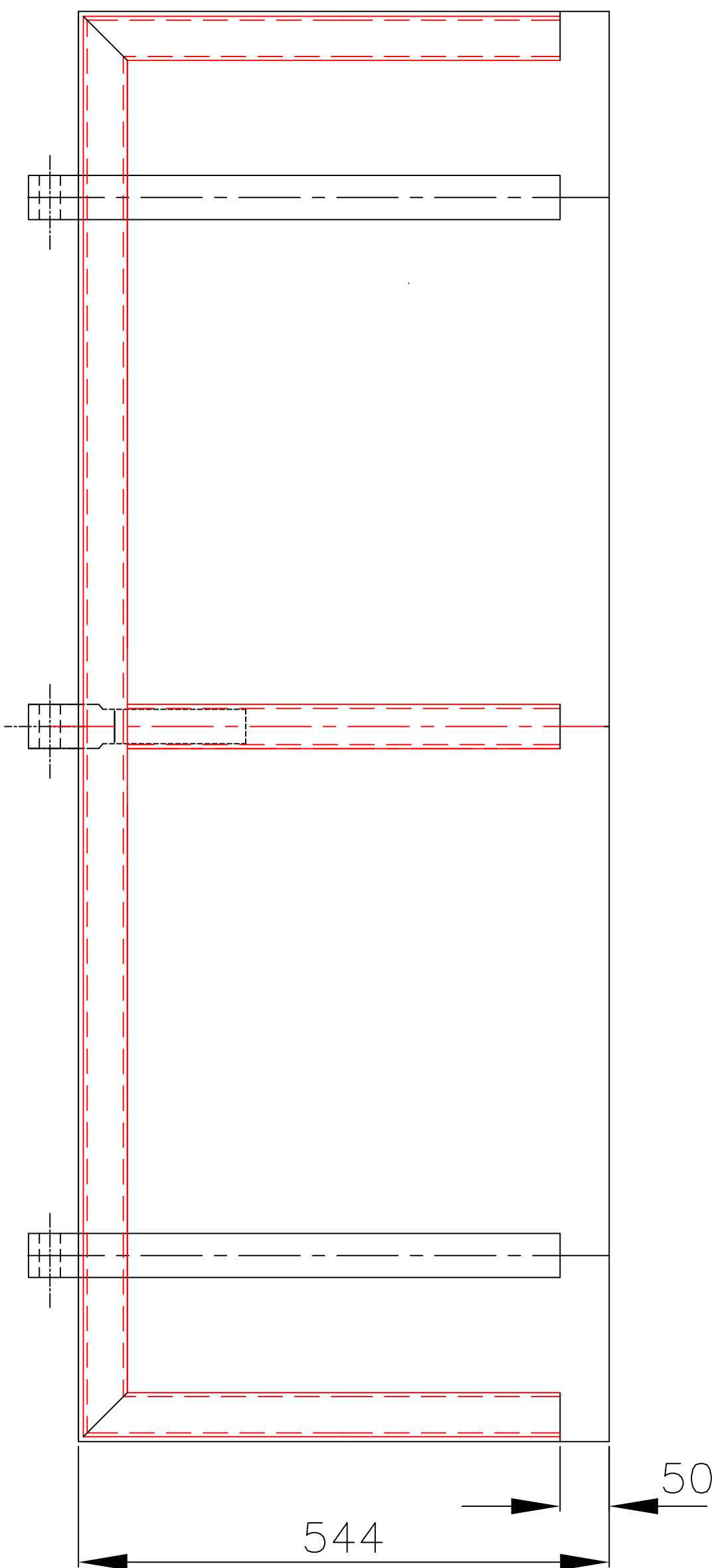
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1	DOOR FRAME	1	EA	FORGED
2	DOOR HINGE STRAIGHT SHORT	2	EA	FORGED
3	DOOR HINGE STRAIGHT LONG	2	EA	FORGED
4	DOOR HINGE STRAIGHT LARGE	2	EA	FORGED
5	DOOR HINGE STRAIGHT SMALL	2	EA	FORGED
6	DOOR HINGE STRAIGHT MEDIUM	2	EA	FORGED
7	DOOR HINGE STRAIGHT LARGE	2	EA	FORGED
8	DOOR HINGE STRAIGHT SMALL	2	EA	FORGED
9	DOOR HINGE STRAIGHT MEDIUM	2	EA	FORGED
10	DOOR HINGE STRAIGHT LARGE	2	EA	FORGED
11	DOOR HINGE STRAIGHT SMALL	2	EA	FORGED
12	DOOR HINGE STRAIGHT MEDIUM	2	EA	FORGED
13	DOOR HINGE STRAIGHT LARGE	2	EA	FORGED
14	DOOR HINGE STRAIGHT SMALL	2	EA	FORGED
15	DOOR HINGE STRAIGHT MEDIUM	2	EA	FORGED
16	DOOR HINGE STRAIGHT LARGE	2	EA	FORGED
17	DOOR HINGE STRAIGHT SMALL	2	EA	FORGED
18	DOOR HINGE STRAIGHT MEDIUM	2	EA	FORGED
19	DOOR HINGE STRAIGHT LARGE	2	EA	FORGED
20	DOOR HINGE STRAIGHT SMALL	2	EA	FORGED

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8	DOOR HINGE STRAIGHT SMALL	2	EA	FORGED
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10	DOOR HINGE STRAIGHT LARGE	2	EA	FORGED
11	DOOR HINGE STRAIGHT SMALL	2	EA	FORGED
12	DOOR HINGE STRAIGHT MEDIUM	2	EA	FORGED
13	DOOR HINGE STRAIGHT LARGE	2	EA	FORGED
14	DOOR HINGE STRAIGHT SMALL	2	EA	FORGED
15	DOOR HINGE STRAIGHT MEDIUM	2	EA	FORGED
16	DOOR HINGE STRAIGHT LARGE	2	EA	FORGED
17	DOOR HINGE STRAIGHT SMALL	2	EA	FORGED
18	DOOR HINGE STRAIGHT MEDIUM	2	EA	FORGED
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10	DOOR HINGE STRAIGHT LARGE	2	EA	FORGED
11	DOOR HINGE STRAIGHT SMALL	2	EA	FORGED
12	DOOR HINGE STRAIGHT MEDIUM	2	EA	FORGED
13	DOOR HINGE STRAIGHT LARGE	2	EA	FORGED
14	DOOR HINGE STRAIGHT SMALL	2	EA	FORGED
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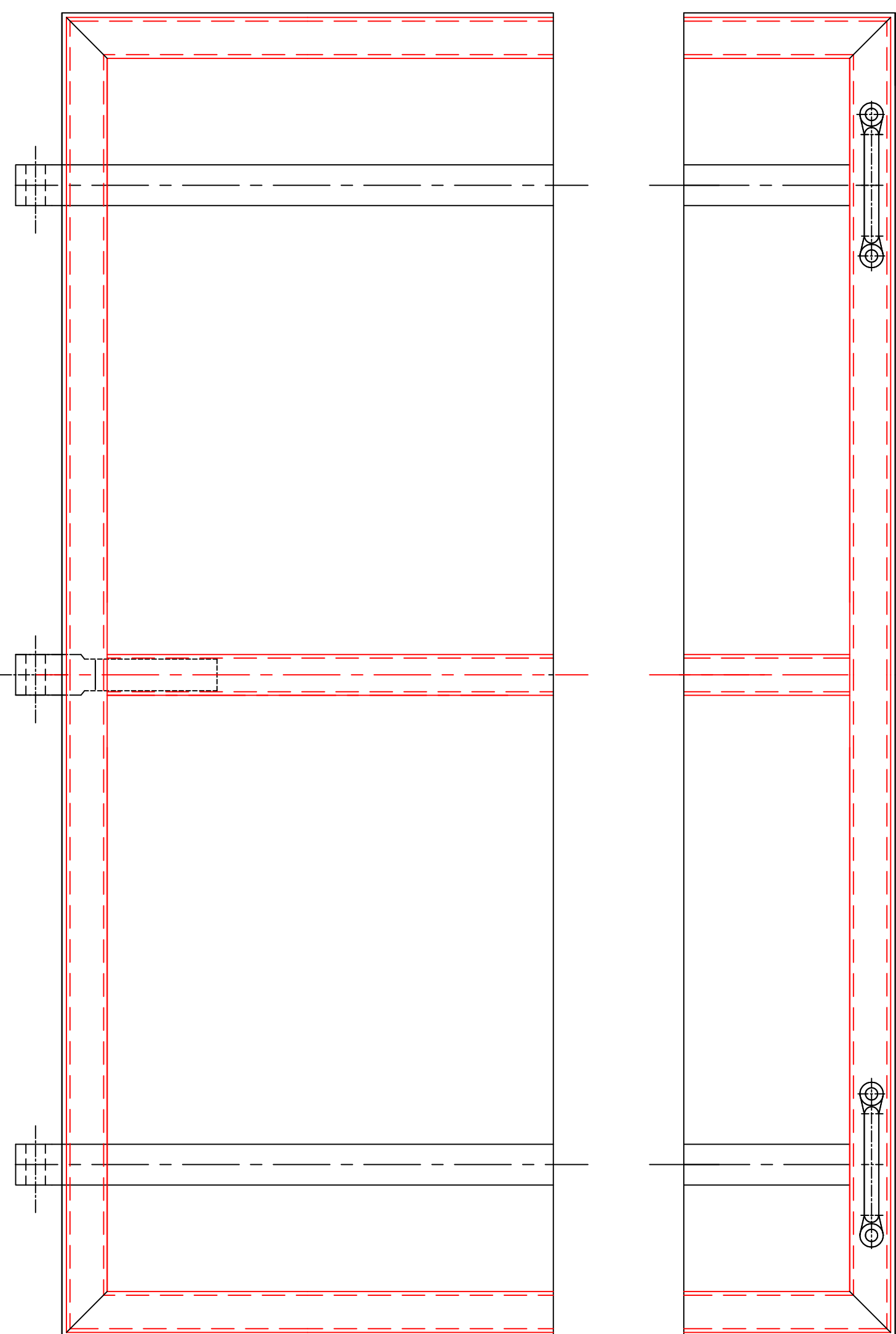


ORIGINAL DOOR (STEP 1)



DOOR AFTER CUTTING (STEP 3)

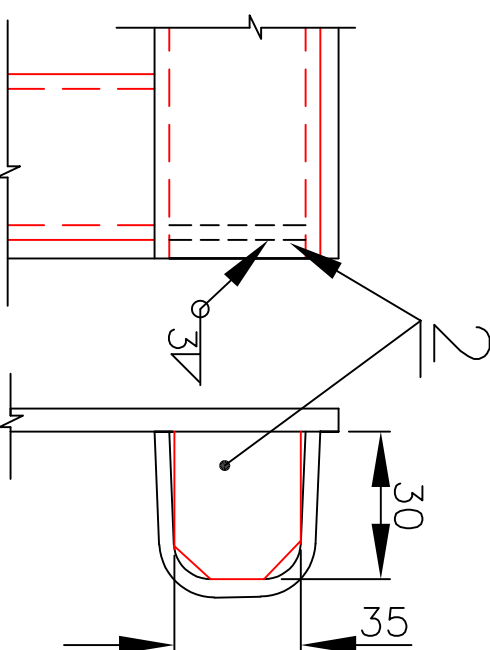
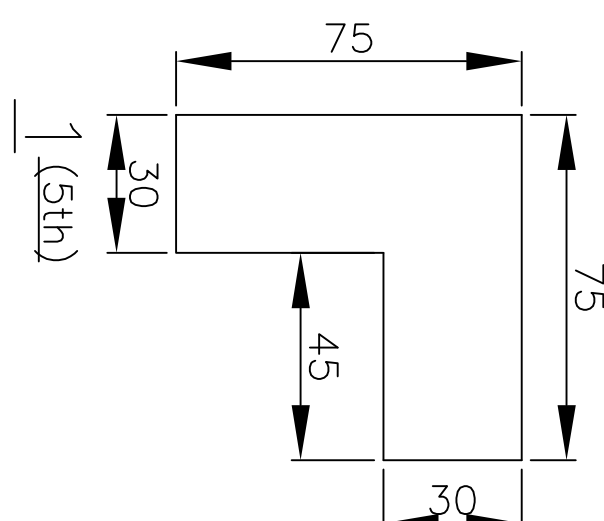
REMOVE
233



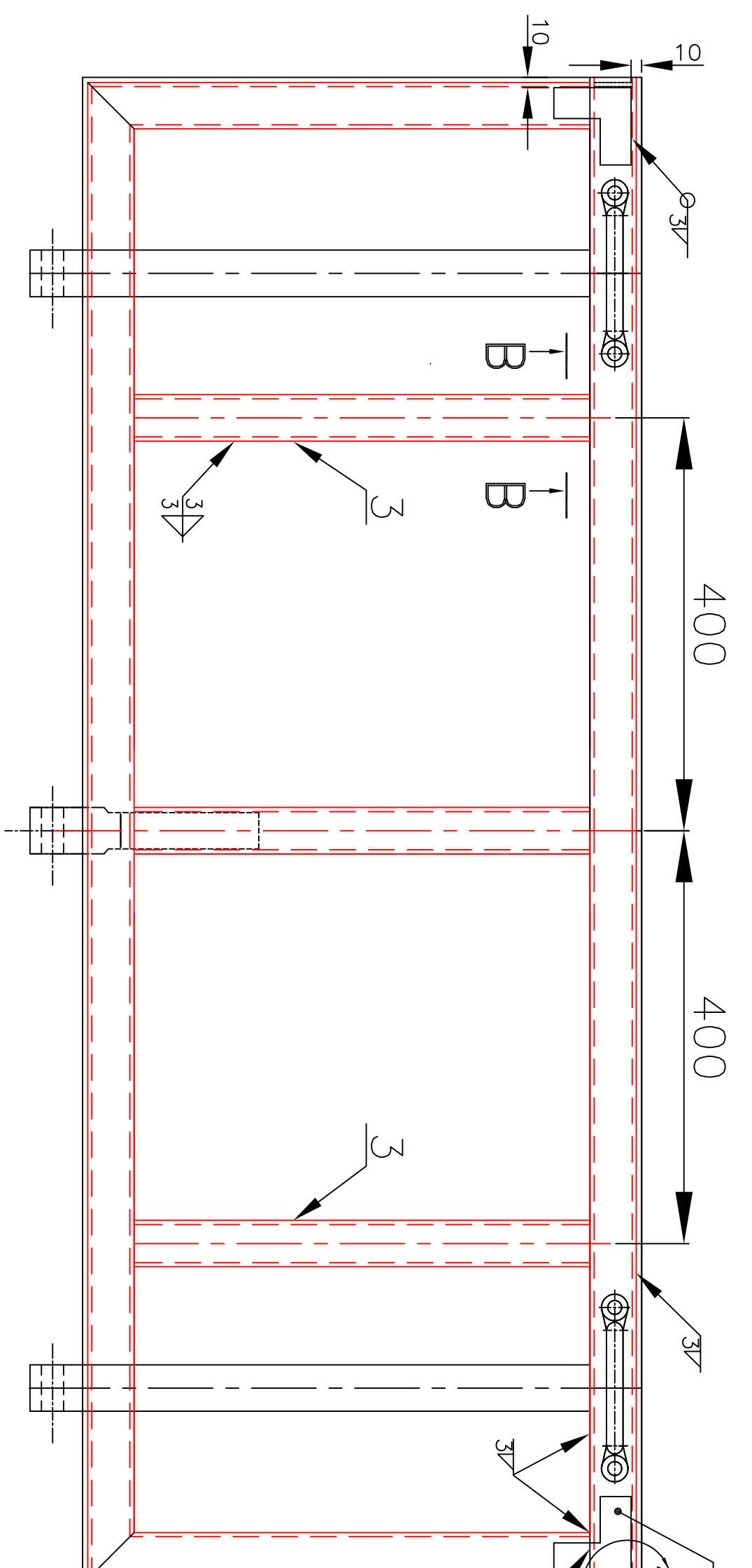
DOOR CUTTING (STEP 2)

REMOVE |

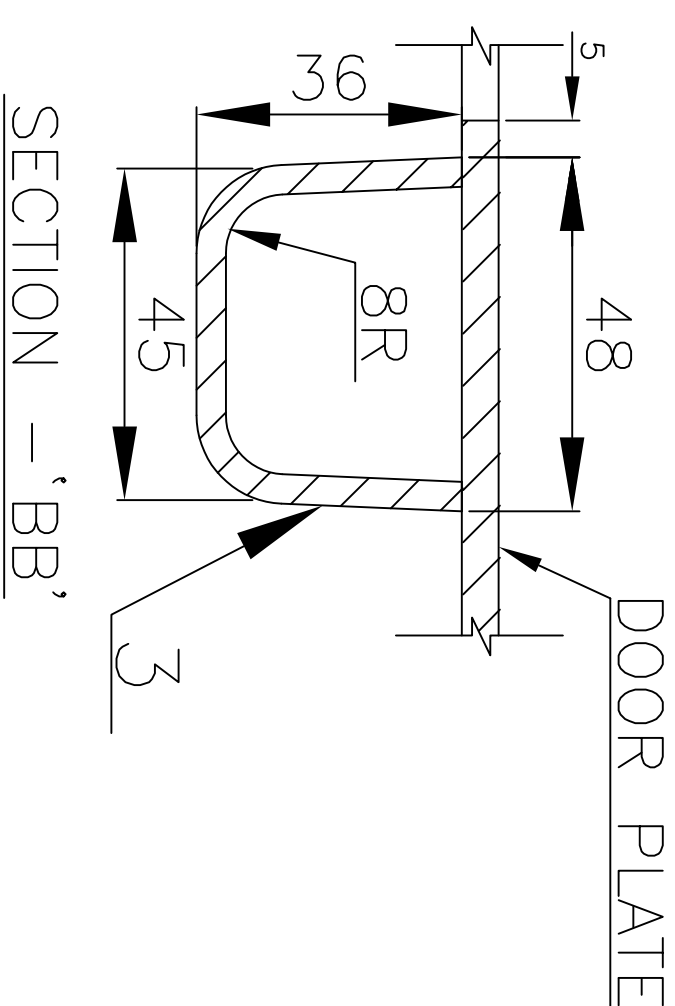
233 → →



ENLARGED VIEW 'A'



FINAL FITTED DOOR AFTER HEIGHT REDUCTION (STEP 4)



SECTION - 'BB'

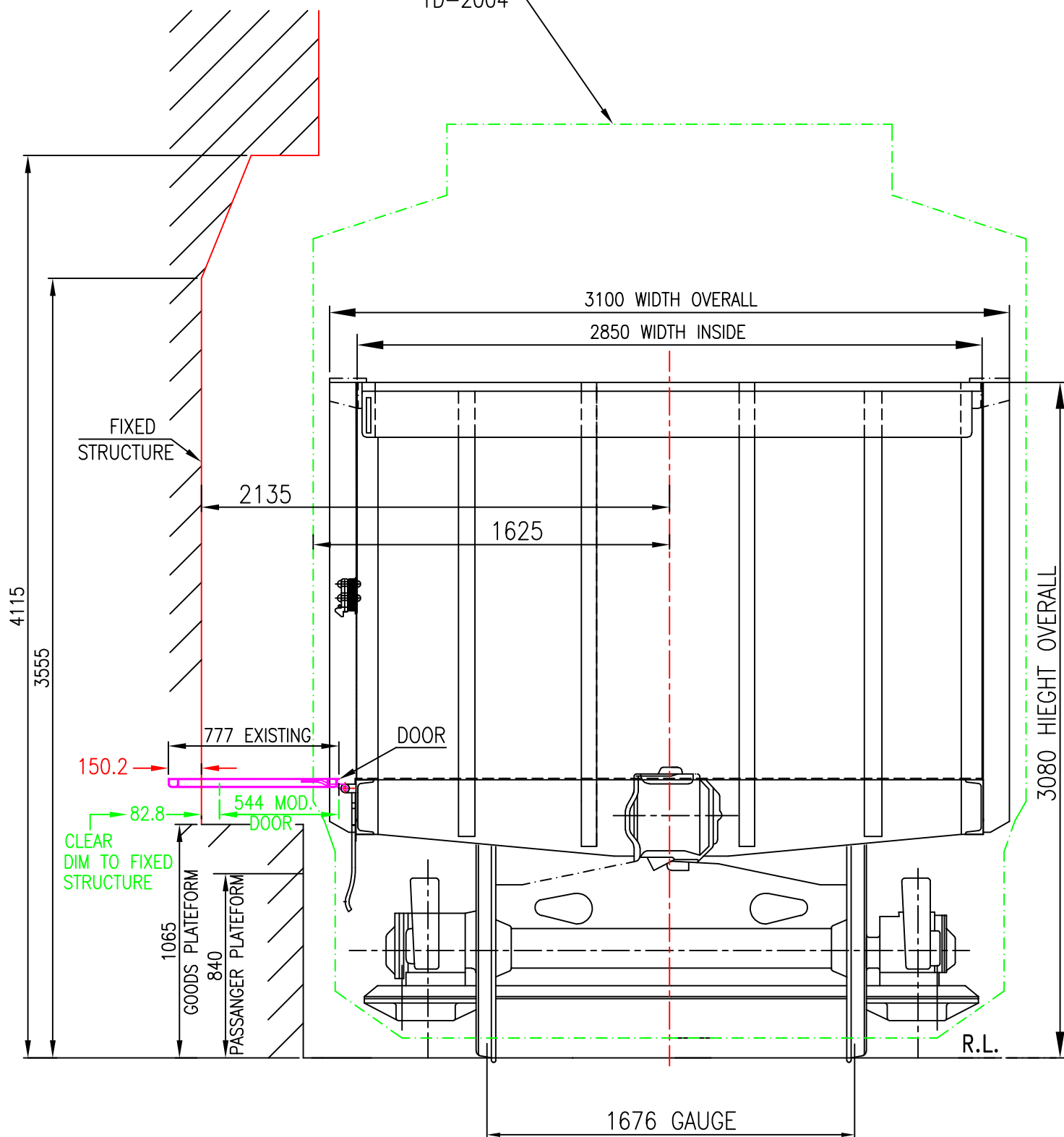
3

STEPS FOR CUTTING OF EXISTING DOOR TO REDUCED HEIGHT:

1. CUT DOOR FROM TOP BY 233 mm AS SHOWN IN STEP 1.
2. REMOVE EXTRA PORTION OF DOOR AS SHOWN IN STEP 2.
3. REDUCE HEIGHT OF VERTICAL DOOR PRESSING AND DOOR HINGE LONG BY 50 mm KEEPING DOOR PLATE INTACT.
4. FITMENT OF HORIZONTAL DOOR FRAME PRESSING AS SHOWN IN STEP 4.
5. FITMENT OF ITEM 1 AND 2 AS PER STEP 4.
6. FITMENT OF DOOR WAY STIFFENING CROSS BAR AND OTHER DOOR MEMBERS TO BE AS PER WD-23018-S-01.

ALT.	ITEM	AUTHY.	DESCRIPTION	DATE	ASSLY. DROGS.

3	ADDITIONAL DOOR FRAME PRESSING (LENGTH=442)	2	-	1.40	IS2062-E250 GMM
2	DOOR PRESSING STIFFENER(30x35x4TH.)	2	-	0.04	IS2062-E250 GMM
1	TOP STIFFENING PLATE	2	-	0.14	IS2062-E250 GMM
ITEM	DESCRIPTION	NO. OF DOOR	REF. DRG.	WT. OF PER UNIT(KG)	MTL. & SPEC REMARKS
 PRELIMINARY SKETCH ONLY FOR PROTOTYPE APPLICATION UNDER GUIDANCE OF R.D.S.O. (WAGON)					
SUPERSEDED BY		BOGIE OPEN WAGON TYPE 'BOST & ITS VARIANTS'			
SUPERSEDED		DATE			
SCALE PASSED					
CHECKED					
DRAWN	AKKISHWAH 05/23				
TRACED					
CORRECTED					
J.S.NO.					
B.G.	R.D.S.O. [W]	GROUP		SKETCH-WD/III-05/23	

MMD
1D-2004ANNEXURE-A

POSITION OF BOST TYPE WAGONS DOOR, INTERFERENCE WITH FIXED STRUCTURE, WHEN OPEN DURING RUN (SHOWN IN HORIZONTAL POSITION)

(In mm)