# File No.RDSO-MW0WD(OPEN)/2/2020-O/o PED/SW/RDSO

### 1/40352/2023



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भारत सरकार -रेल मंत्रालय अनुसंघान अभिकल्प और मानक संगठन लखनऊ - 226011 Government of India - Ministry of Railways Research Designs & Standards Organisation Lucknow - 226011

No. MW/BOXNHL 24 March 2023

## **AII PCMEs**

Sub: Blocking of two doors and reduction of height of Remaining two doors in all BOXN wagons.

Ref: (i) This office letter of even no. dated 21.03.2023

(ii) Railway Board letter No. 2022/M(N)/951/Wagon door (E-3396746) dated 28.02.23

Vide this office letter referred (i) above, instructions for blocking of door and retro-fitment of reduced height door along with respective drawings have been issued.

Further, the following has also been decided during the VC held on 24.03.2023 -

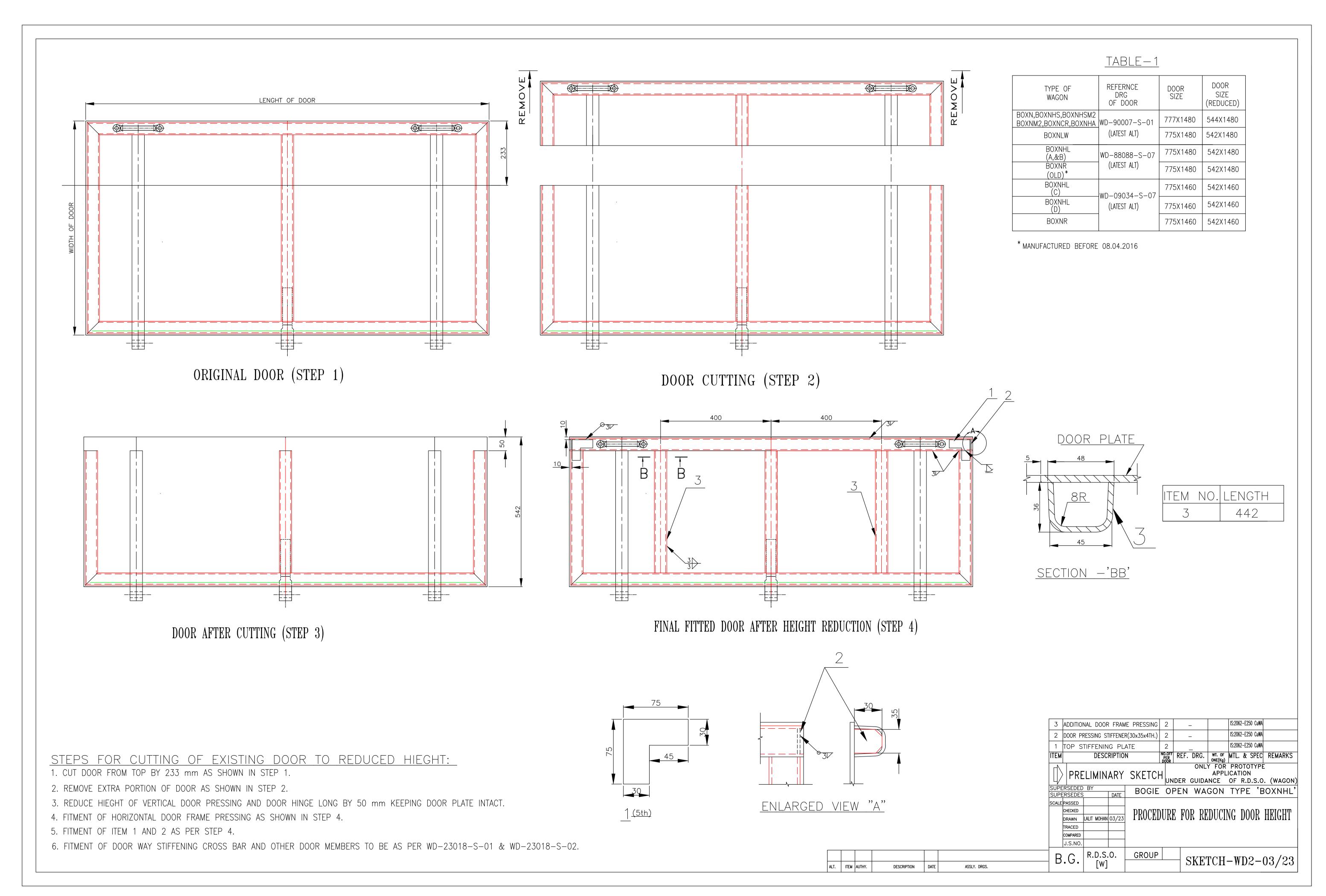
- 1. The blocking of door work can be carried out in ROH/POH only.
- 2. The door check springs shall also be removed from the sole bar at the blocked door locations.
- 3. In case, if the door removed from the wagons are found in the good condition, the same shall be modified to reduce the height by 233 mm for re-fitment in the wagon as per the sketch attached with this letter.

D. A. Sketch no. WD-2-0323

Digitally Signed by Manish Thap (Par Manish Thaplyal) Date: 24-Digector Stds (Wagon

Reason: Approved

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# File No.RDSO-MW0WD(OPEN)/2/2020-O/o PED/SW/RDSO

### 1/40101/2023



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No. MW/BOXNHL

Government of India - Ministry of Railways Research Designs & Standards Organisation Lucknow - 226011 DID (0522)2450115 DID(0522)2465310



Date: 21.03.2023

### All PCME's

Sub: Blocking of two doors and reduction of height of Remaining two doors in all BOXN variant wagons.

Ref: Rly Board letter no 2022/M(N)/951/Wagon\_door(E-3396746) dated 28.02.23.

- 1.0 A cross section of BOXNHL wagon with doors closed and open and superimposed on the IRSOD – 2022 is enclosed as Annexure-1. It can be seen that instances of doors hitting fixed structure can only occur if the door is incorrectly closed or if the door opens on run while crossing the fixed structure.
- 2.0 After due deliberations, Board has issued instructions as in reference above (copy enclosed). It has been decided, in consultation with Traffic Dte. of Railway Board, to block two doors (diagonally opposite) in 50% of all BOXN variant wagons. Further, it has been decided that height of all doors i.e. in 100% of the BOXN variant wagons shall be reduced to 542 mm from the existing height of 775 mm.
- 2.1 Accordingly, it is advised that two doors, diagonally opposite, of each BOXN type wagon shall be blocked as per Drg. no WD-23018-S-03. The blocking of doors shall be done in POH / ROH / Sickline upto December 2023, till further advice from Railway Board.
- 3.0 The remaining two doors of the BOXN type wagons have to be replaced by a lower height door to Drg. No. WD-23018-S-02 (for BOXNHL variants) and Drg. No. WD-23018-S-01 (for BOXN variants).
- 3.1 The material of the door shall be Mild Steel for all variants of BOXNHL & BOXN wagons.
- For fitment of reduced height door, the door opening shall be reduced by 233 mm from the top by providing additional door way stiffening cross bar as shown in the drawings.
- 3.3 The design of gravity cotter (grip length and slot size) and location of cotter rivets have been modified and mentioned in the above drawings.
- The above activity to be carried out during POH / ROH / Sickline attention to wagons. Till, doors to reduced height are procured, the activity of blocking of doors can be started.
- 4.0 Wagon having two doors blocked and two doors with reduced height shall be marked as "BLOCKED DOOR" at location of blocked door and "REDUCED HEIGHT" above the doorway stiffing crossbar.
- 5.0 The progress of modification of wagons to be entered in the Google Sheet link given below:
- a) <a href="https://docs.google.com/spreadsheets/d/1TArOXKEQFhh7wtKzTlKgD04YTmx0We9d5R3">https://docs.google.com/spreadsheets/d/1TArOXKEQFhh7wtKzTlKgD04YTmx0We9d5R3</a> <a href="https://docs.google.com/spreadsheets/d/1TAroXKeqfataraa/">https://docs.google.com/spreadsheets/d/1TAroXKeqfataraa/<a href="https://docs.google.com/spreadsheets/d/1TAroXKeqfataraa/">https://docs.google.com/spr
- b) <a href="https://docs.google.com/spreadsheets/d/1yK-YLR71X1xX4dM1Hcm9zCKz06YylZy0ugwf-ai2">https://docs.google.com/spreadsheets/d/1yK-YLR71X1xX4dM1Hcm9zCKz06YylZy0ugwf-ai2</a> qc/edit?usp=sharing

DA: As above

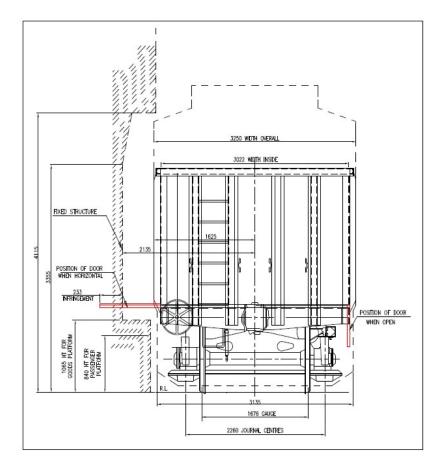
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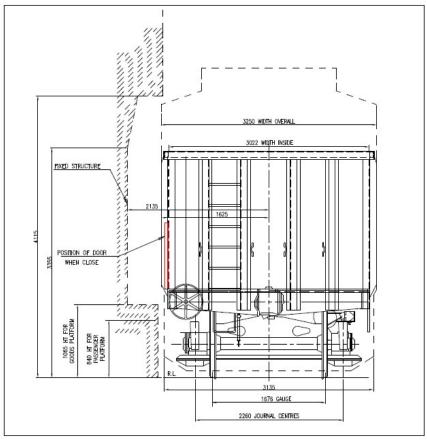
Digitally Digitally Signed by Wayfish Executive Director/ Wagor Thaplyal

Date: 21-03-2023 18:22:48

Reason: Approved

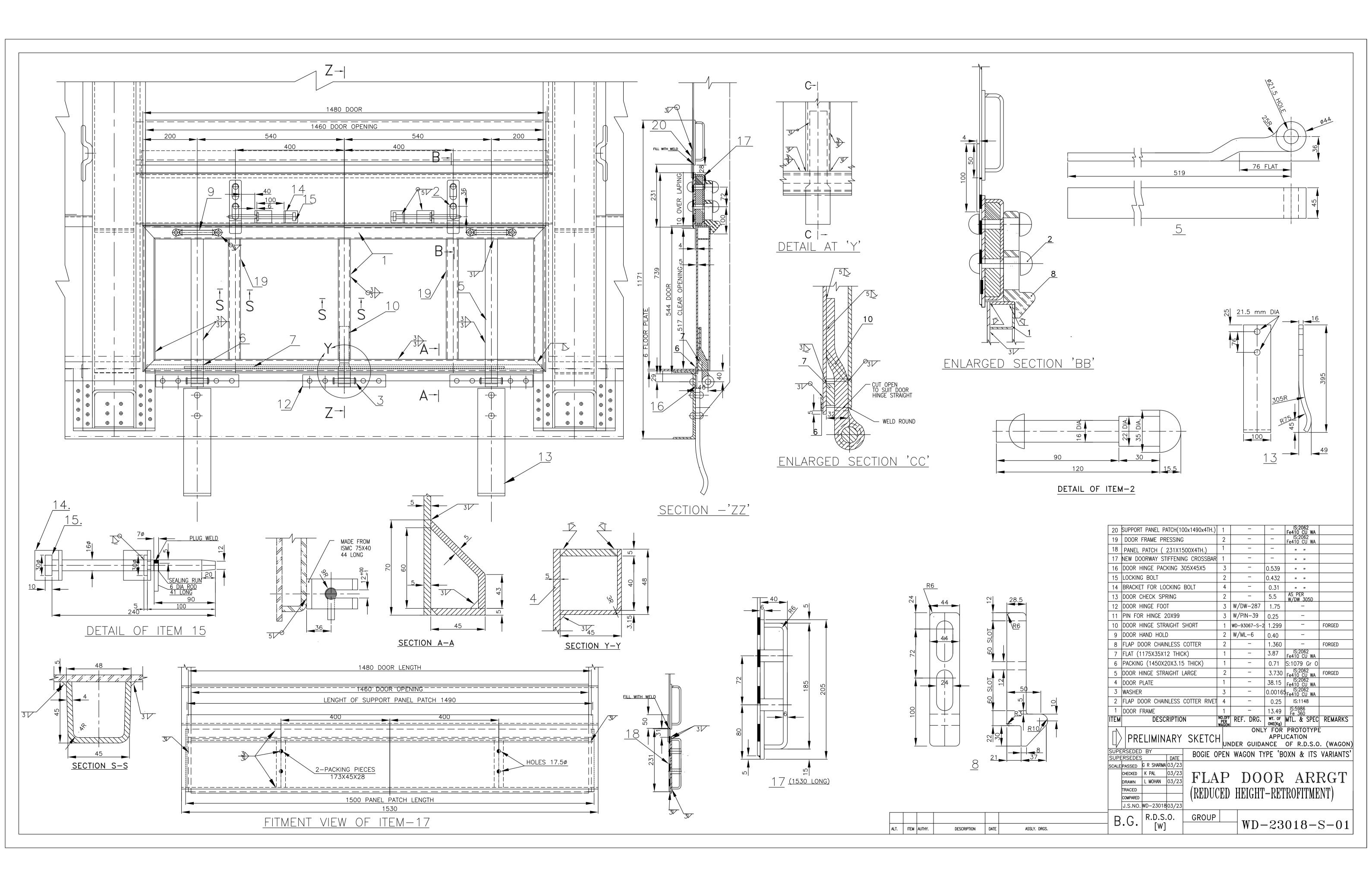
#### **ANNEXURE-1**





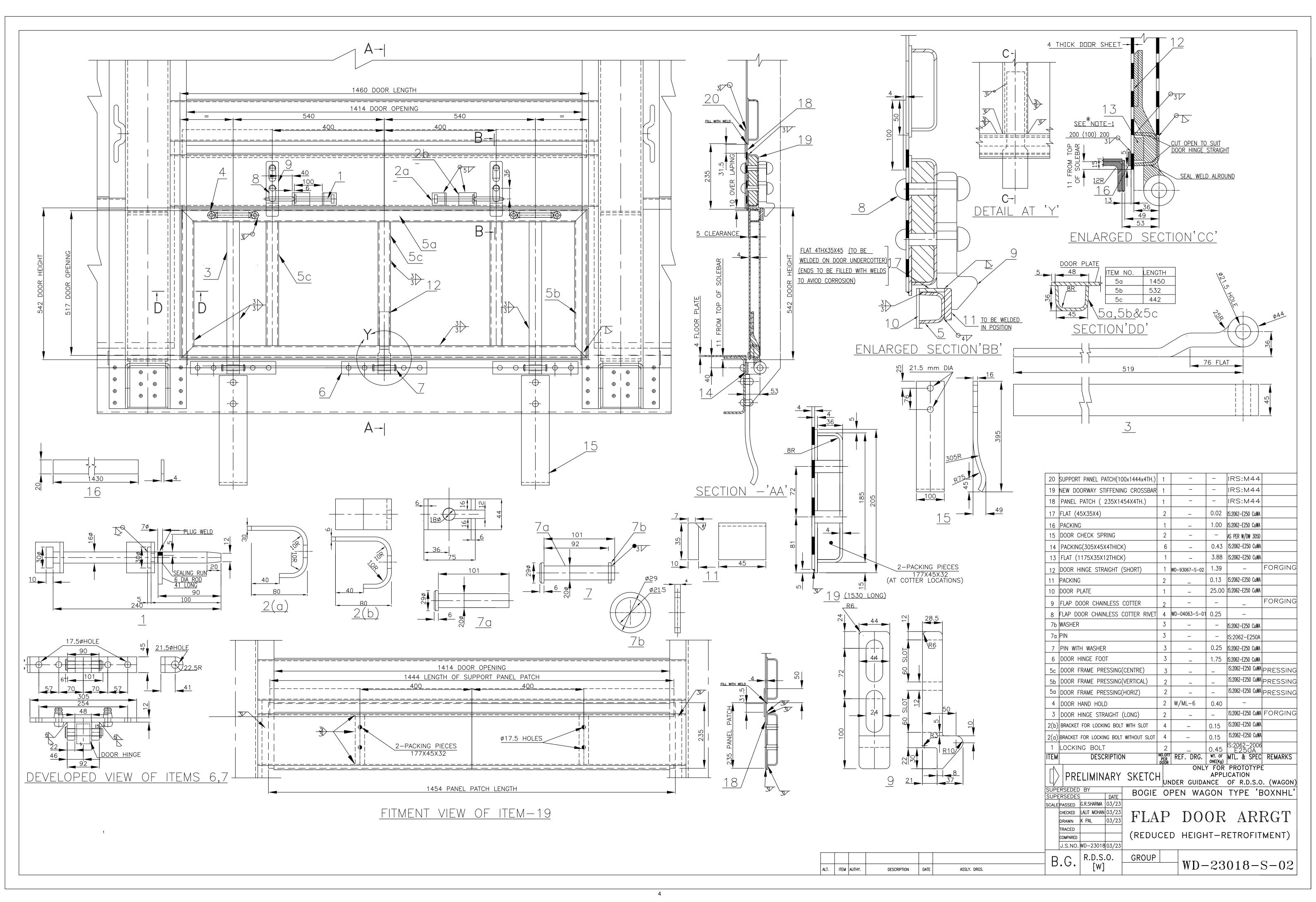
Cross-section of BOXNHL wagon when superimposed on IRSOD-2022 shows door interference with fixed structures when door in horizontal position in cases of door opening of run.

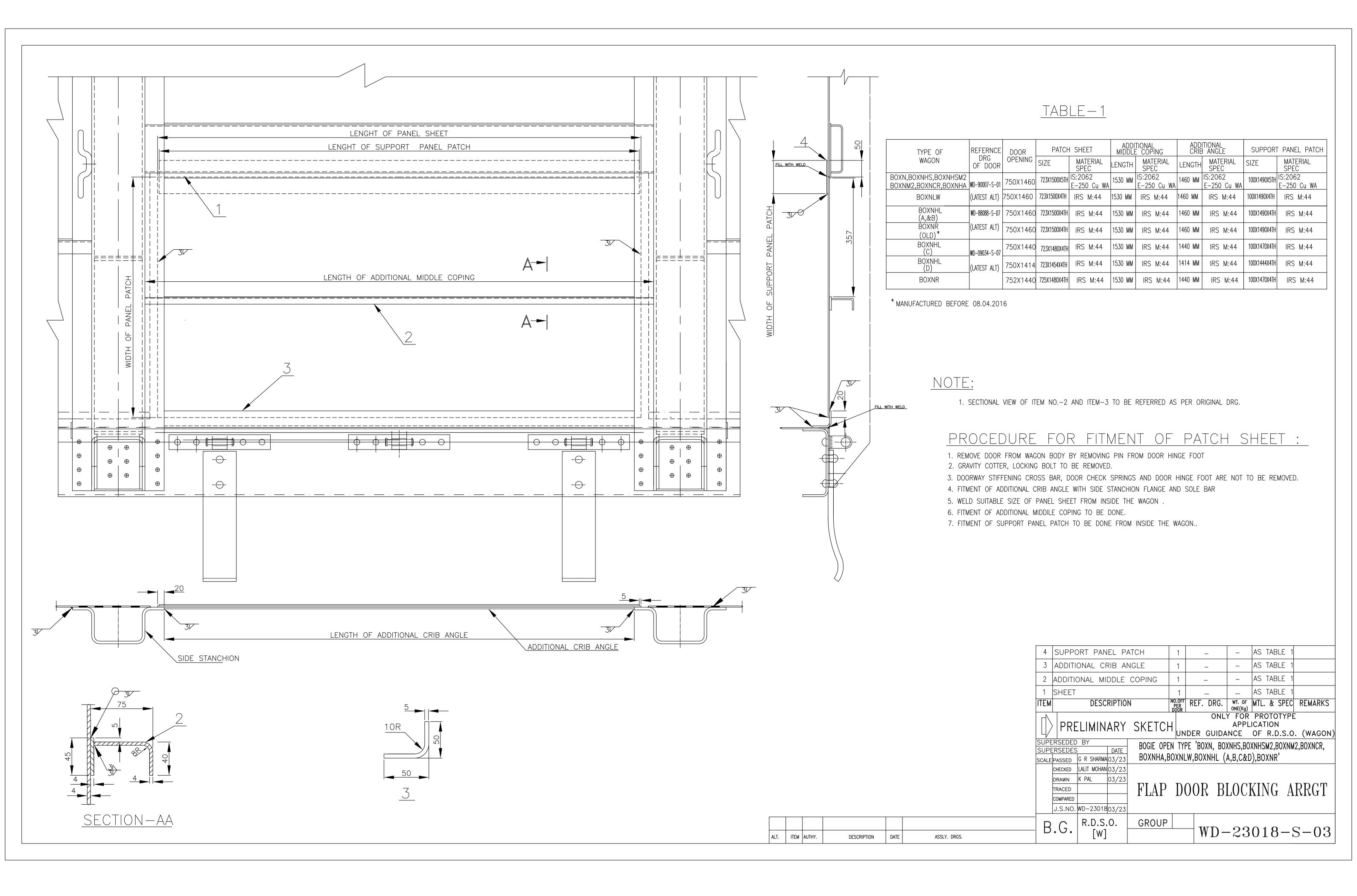
Cross-section of BOXNHL wagon when superimposed on the IRSOD-2022 and door is closed position.



File No. 2022/M(N)/951/Wagon\_Door (Computer No. 3396746)

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