Entrust Fashions Ltd.
(Extended Building)

46/1, Nayanagar, Main Road, Chairmanbari Mor, Nayanagar, Turag ,Dhaka-1230
(23.886710, 90.373640)
12th January 2021

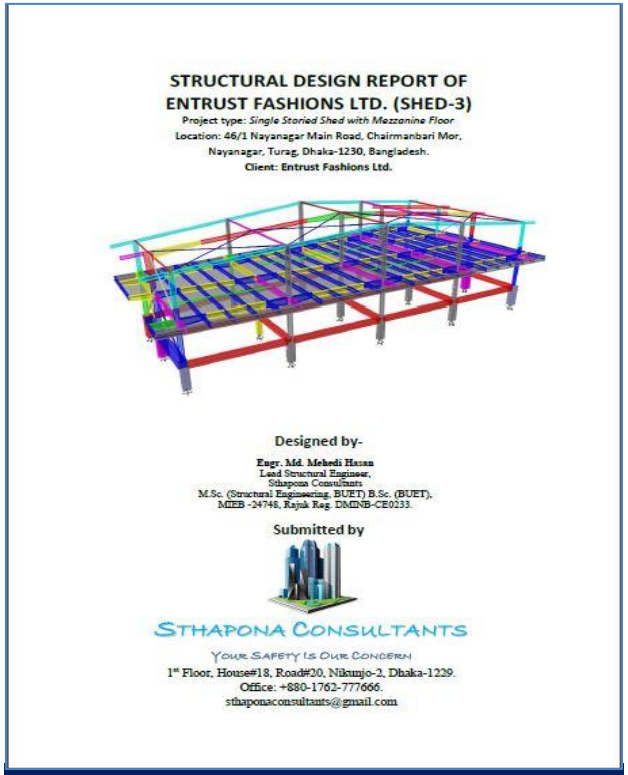
RSC RMG SUSTAINABILITY COUNCIL

Building Information

1. Shed-3 (G+1)

Observations

Prepared design report required to be revised and submitted to RSC



STRUCTURAL DESIGN REPORT OF
ENTRUST FASHIONS LTD. (SHED-3)

Project type: *Single Storied Shed with Mezzanine Floor*
Location: 46/1 Nayanagar Main Road, Chairmanbari Mor, Nayanagar, Turag, Dhaka-1230, Bangladesh.
Client: Entrust Fashions Ltd.

Designed by-

Engr. Md. Mehedi Hasan
Lead Structural Engineer,
Sthapona Consultants
M.Sc. (Structural Engineering, BUET) B.Sc. (BUET),
MIEB -24748, Rajuk Reg. DMINB-CE0233.

Submitted by

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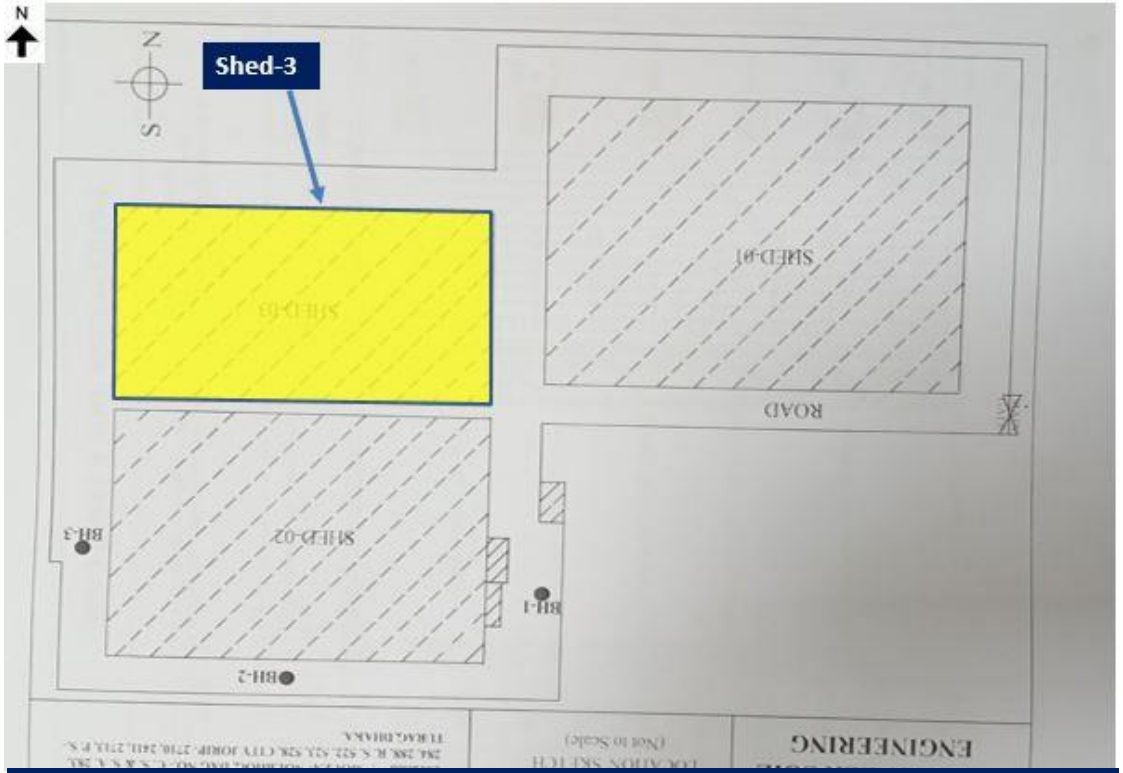
Design report



Bore hole layout in soil test report

Joint plate thickness was found different with drawings in several locations. Also, no connection adequacy check was provided in the design report. Connection adequacy , lateral displacement and vertical deflection check required to be incorporated in design report in accordance with BNBC requirement.

In addition, all the bore hole locations in the soil test report were found far away from the shed-3. The bearing capacity of soil under shed-3 needs to be checked by conducting more test as per BNBC.

Observation : Shed-3

Incomplete as-built drawing

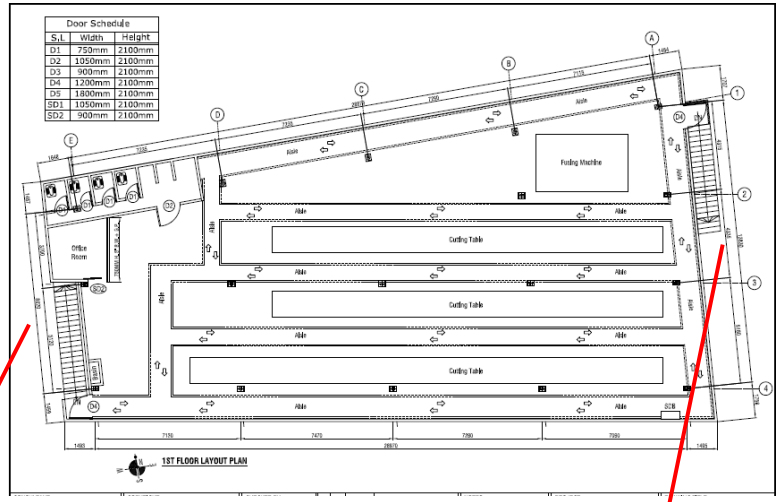
Connections of bracings observed on site

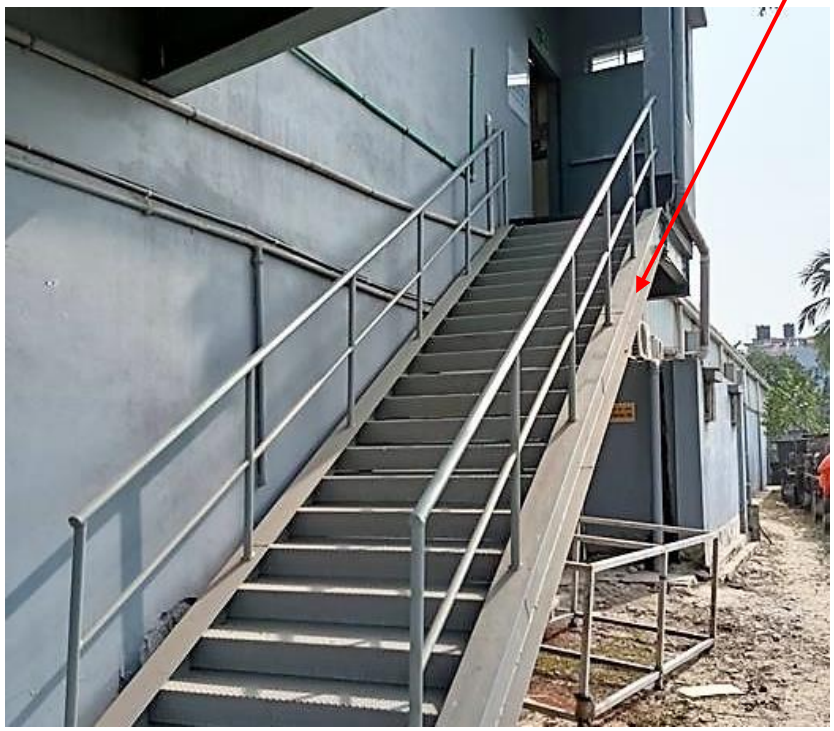
No connection details of the vertical bracings was provided in the as-built structural drawing of Shed-3.

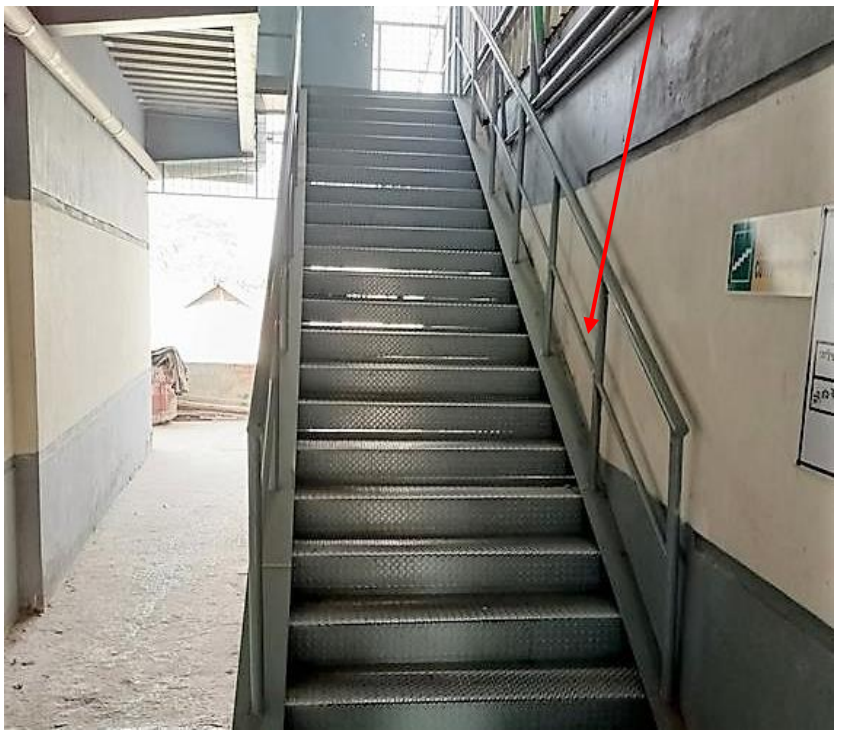
Connection details was not provided for the cantilever areas.

Observations

There are two steel stairs on east and west side of the shed. No details of the stairs was provided in the as-built structural drawing.



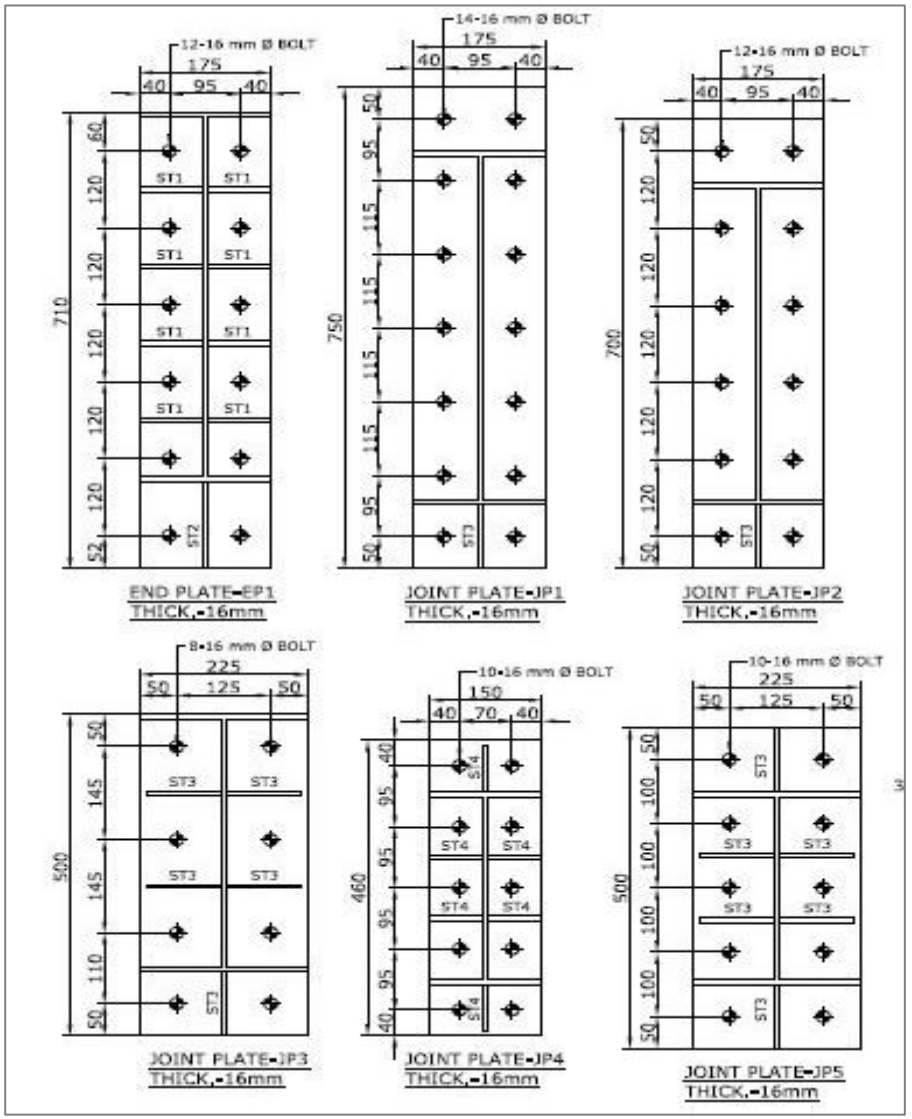




Observations

RSC RMG SUSTAINABILITY COUNCIL

Joint plate thickness was found 13mm at several locations



In connection details drawing all the joint plate thickness were mentioned as 16 mm.

Observations

Corrosion on structural members

Corrosions were observed on several structural members (Beams, columns & bracings).

Observations

Problems Observed

Item 1: Prepared design report required to be revised and submitted to RSC.

Item 2: Incomplete as-built drawing.

Item 3: Corrosion on structural members.

Priority Actions

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Prepared design report required to be revised and submitted to RSC.	Connection adequacy check required to be incorporated in design report. Also, Provide lateral displacement and vertical deflection check in report.	6-weeks
02	Prepared design report required to be revised and submitted to RSC.	The bearing capacity of soil under shed-3 needs to be checked by conducting more test as per BNBC.	6-weeks
03	Prepared design report required to be revised and submitted to RSC.	Complete implementation of any remedial works deemed necessary by the design report.	6-months
04	Incomplete as-built drawing.	Factory engineer is required to survey the whole structure and prepare “as constructed” drawings which reflect the actual site dimensions.	6-weeks
05	Corrosion on structural members.	Factory engineer is required to take remedial measures to protect the structural members from corrosion.	6-weeks