

Eco Couture Ltd.

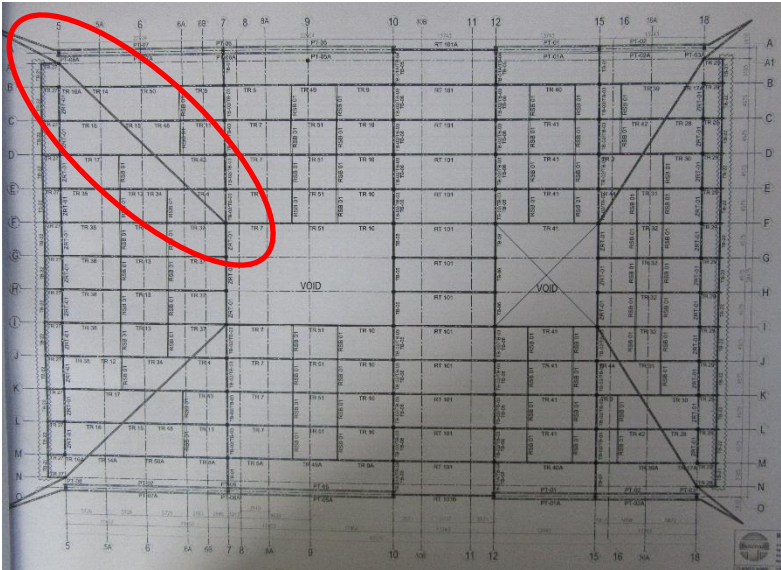
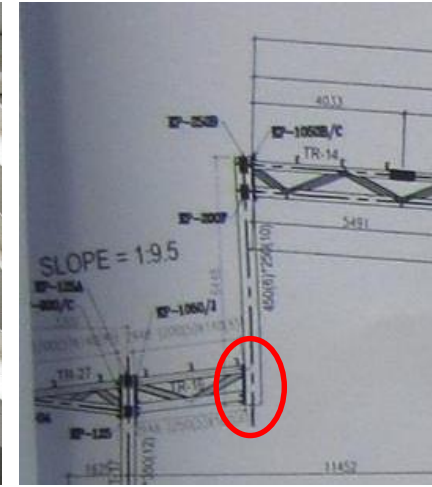
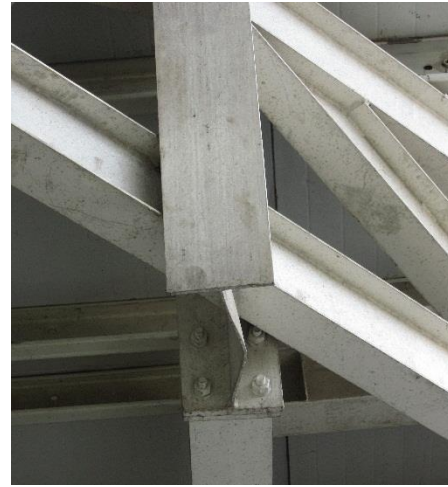
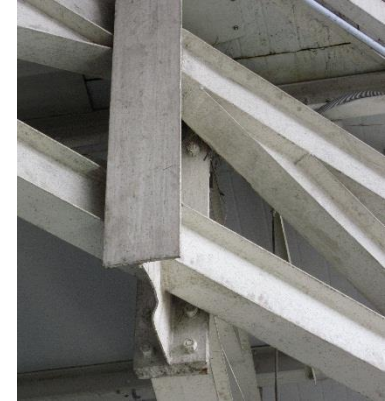
Mogorkhal, Dhaka Bypass Road, Joydebpur, Gazipur
(23.972172 N, 90.390718 E)

25th November 2015



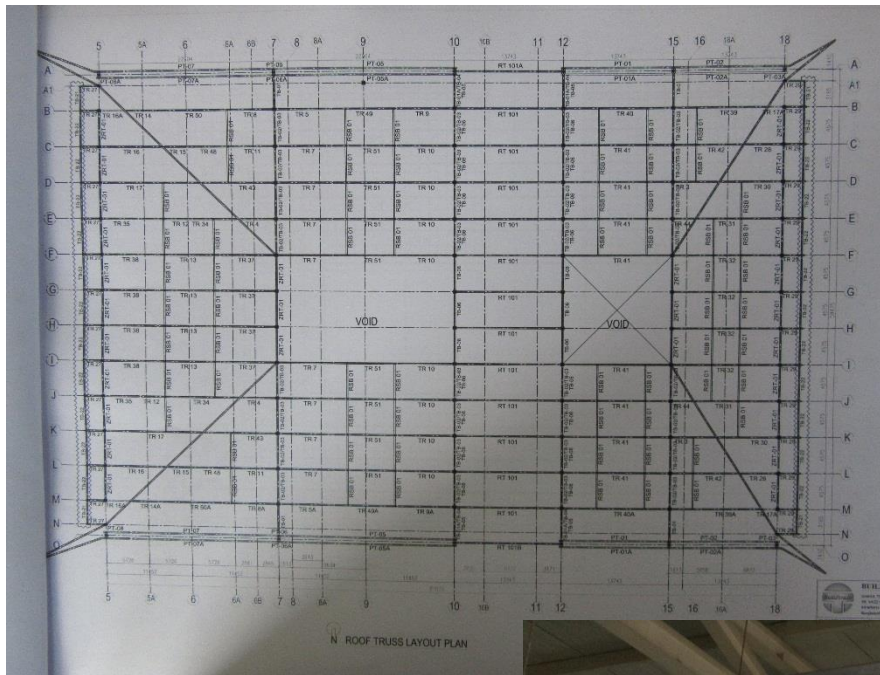
Observations

Nonconformities and deformations observed at several steel connections



Nonconformities and deformations observed at several steel connections
 Diagonal truss elements welded directly on web of I-section without proper detailing (no stiffeners)
 This caused buckling & crippling at the web of profile.

Lack of diagonal stability elements at roof level



Stability at roof level is provided by orthogonal frame elements at bottom flange of truss and purlins at top.

No diagonal bracing has been provided.

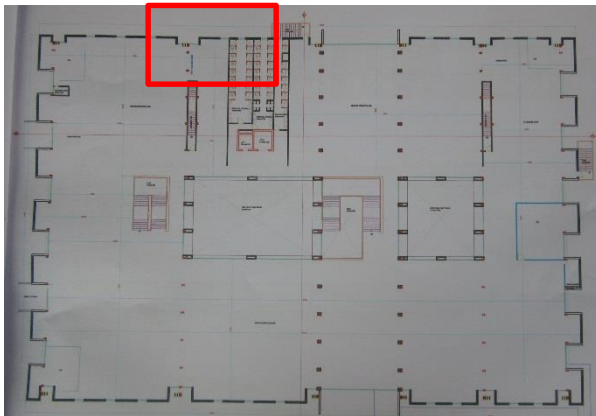
Building engineer to verify roof stability without diagonal bracing is adequate to resist wind loads.



Cracking at brick walls on cantilever portion of 1st floor



Cracking observed at exterior brick Wall. This appears to be due to uncontrolled loading at cantilever.



1st floor plan

Priority Actions

Problems Observed

Building 1- Main Factory Building

ITEM 1: Nonconformities and deformations observed at several steel connections

ITEM 2: Lack of diagonal stability elements at roof level

ITEM 3: Cracking at brick walls on cantilever portion of 1st floor

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Building 1- Factory Building Nonconformities and deformations observed at several steel connections	Building engineer to locate and inspect the deformations at vertical transfer elements between trusses (indicated at observation slides)	6-weeks
2	Building 1- Factory Building Nonconformities and deformations observed at several steel connections	Building engineer to ensure structural steel connections (especially to the web of sections) has been designed and fabricated as per code for vertical & wind loads.	6-weeks
3	Building 1- Factory Building Nonconformities and deformations observed at several steel connections	Building engineer to verify main frame connections has proper capacity by carrying out calculations	6-weeks
4	Building 1- Factory Building Nonconformities and deformations observed at several steel connections	Monitor any further deformation at connections	6-months
5	Building 1- Factory Building Nonconformities and deformations observed at several steel connections	Carry out remedial works where required.	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
6	Building 1- Factory Building Lack of diagonal stability elements at roof level	Building engineer to carry out checks that stability of truss system at roof level is adequate and provide stability elements where required.	6-months
7	Building 1- Factory Building Cracking at brick walls on cantilever portion of 1st floor	Verify the capacity of cantilever and check if excessive deflection exists. Remove excess loading where needed.	6-months