

Interfab Shirt Manufacturing Ltd. (Unit-2) Stoffatex Fashion Ltd.

580/1, Uttar Shalna, ward 23, Ipsha, Gazipur
(24.047712, 90.379556)
28th July & 9th August 2019





Observations



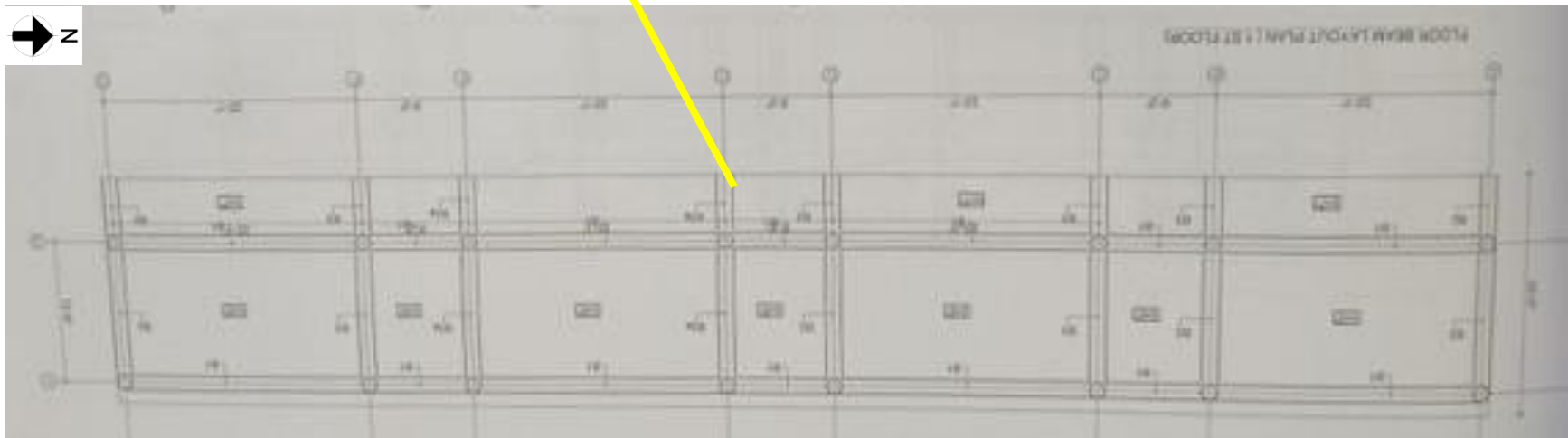
Discrepancies between structural drawings and on-site observations

Observations: Childcare and Healthcare Building

Number of rebar does not match with column schedule. 9 number of exposed rebars were found instead of 12 at roof level. Also, cantilever beam was shown in beam layout plan which was not found on site.

COLUMN SCHEDULE ($f_c = 3,500$ psi, $f_y = 60$ ksi) Mix Ratio 1:1.5:3

COLUMN MARK	COLUMN NOS. GRID WISE	COLUMN SIZE		VERTICAL REINFORCEMENT
		BELOW FGL	ABOVE FGL	
C1	A1,A2,B1,B2, C1,C2,D1,D2, E1,E2,F1,F2, G1,G2,H1,H2	Ø 18"	Ø 16"	 12T20



Beam layout plan



Possible vertical extension



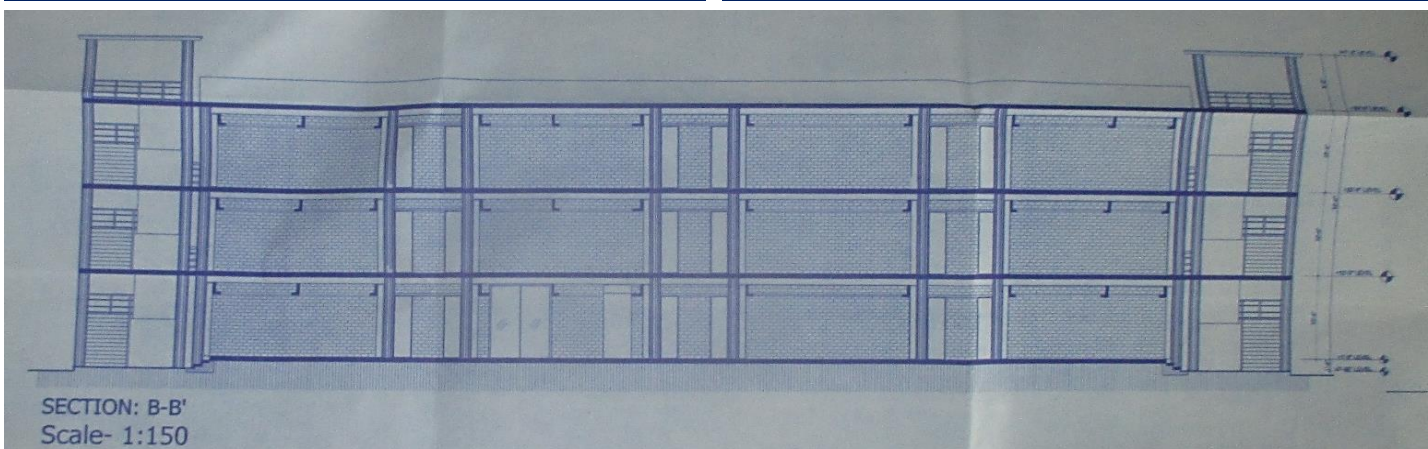
This building is permitted for three (G+2) storied from local authority. Currently, the building is one storied. Factory owner has plan to extend the building vertically up to three storey. Extended portion of column rebar was found at roof level which indicates the possibility of vertical extension. The factory engineer is required to carried out a Detail Engineering Assessment considering BNBC provision prior to any extension work.



Existing One Storied Building



Rebar extension at roof level



Permitted drawing of three storied building from local authority



Discrepancies between drawings and on-site condition

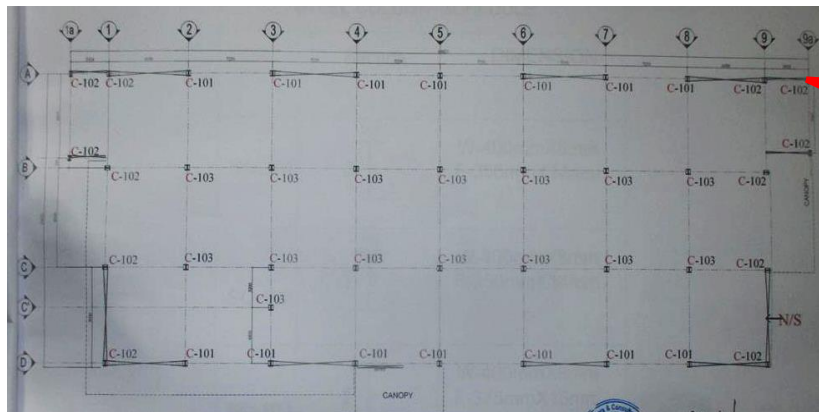


Flange thickness of stair column did not match with the provided drawings. Also, bracing at ground floor stair was not being installed as per bracing layout. The factory engineer is required to produce an “as constructed” drawings with complete structural information.

STEEL COLUMN SCHEDULE		
ITEM NAME	Section	DIMENSION
SC-101		W-400mmX8mm F-350mmX14mm
SC-102		W-400mmX8mm F-350mmX14mm
SC-103		W-400mmX8mm F-375mmX16mm

Column Schedule

13 mm thickness
of column flange
instead of 14 mm



Bracing layout at GF



No Bracing at GF level



Possible vertical extension

Observation: Steel Structure



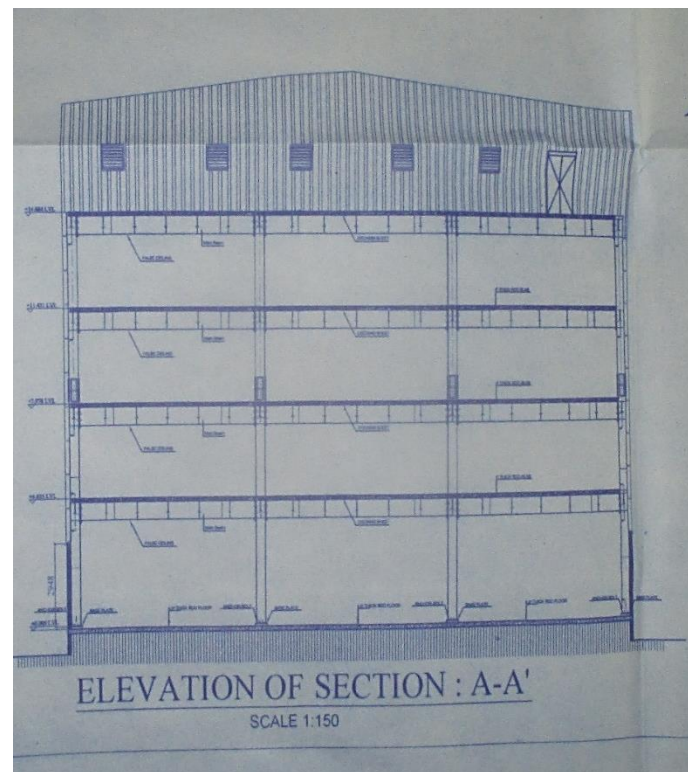
This building is permitted for five (G+4) storied from local authority. Currently, the building is two storied. The factory owner has plan to extend the building vertically up to five storey. Extended portion of steel column was found at roof level which indicates the possibility of vertical extension. The factory engineer is required to carry out a Detail Engineering Assessment considering BNBC provision prior to any extension work.



Steel column extension at roof level



Existing Two Storied Building



Permitted drawing of five storied building from local authority

Observation: Steel Structure



Problems Observed

Childcare and Healthcare Building :

Item 01: Discrepancies between structural drawings and on-site observations.

Item 02: Possible vertical extension

Steel Structure:

Item 01: Discrepancies between drawings and on-site condition.

Item 02: Possible vertical extension



Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Discrepancies between Structural drawings and on-site observations	The factory engineer is required to survey the structure and produce as-built drawings with complete structural information.	6-weeks
2	Possible vertical extension	The factory engineer is required to carry out a Detail Engineering Assessment considering BNBC provision prior to any extension work.	6-weeks
3	Possible vertical extension	Follow the recommendations of Detail Engineering Assessment report.	6-months
4	Discrepancies between drawings and on-site condition	The factory engineer is required to survey the structure and produce as-built drawings with complete structural information.	6-weeks
5	Possible vertical extension	The factory engineer is required to carry out a Detail Engineering Assessment considering BNBC provision prior to any extension work.	6-weeks
6	Possible vertical extension	Follow the recommendations of Detail Engineering Assessment report.	6-months