

Mawna Fashions Ltd

Tepirbari, Sreepur, Gazipur
(24.248209N, 90.42759E)

10th February 2015



Observations

Building 1

Memo No. 115/1110
 Date: 18 Dec, 2014

The Managing Director
 DBL Group
 BGMEA Complex
 23/1m, Panthapath Link Road,
 Karwan Bazar, Dhaka - 1215

Subject: Report on
 Site visit of Mawna Fashions Ltd, particularly, the on-going construction for Dining space, Kitchen, Prayer room, Ablution area located in eight storied factory Building for DBL Group at Tepirbari, Shishu Palli Road, Sreepur, Gazipur.

Dear Sir,

Accompanied by our Engineer Mr. S M Shaheeq Mahmood Rony, I inspected the factory site on 14 December, 2014.

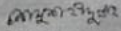
The Building is a eight storied R.C. frame structure with partial basement and used as Production Building with Ground floor and basement used as store.

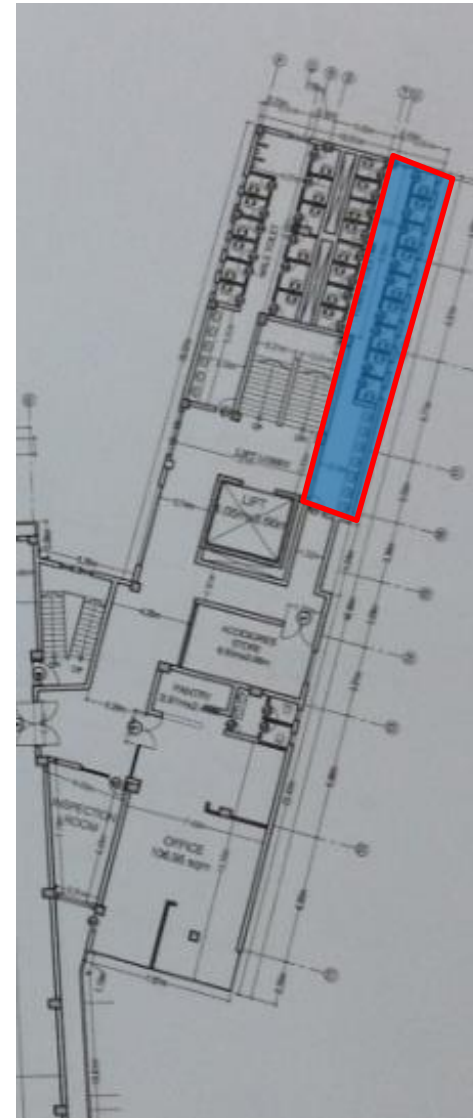
An additional space for functions mentioned in the subject is being constructed on the roof top with additional columns and slabs. On the North-East portion of the new construction Building, a cantilever slab of 8'-4" span was planned. The detailed design drawings supplied to us during the factory visit, showed that the reinforcement details were deficient. Also, an additional problem arose, which is that some of the extended columns has already been cast and hence the beams in the North-South direction of the Easternmost portion of the Building supporting this cantilever slab could not be continued through to the edge.

Calculation of the additional or revised reinforcements was done at site and on-site remedy including limiting the cantilever to 7'-3" has been provided and explained orally.

Thanking you,

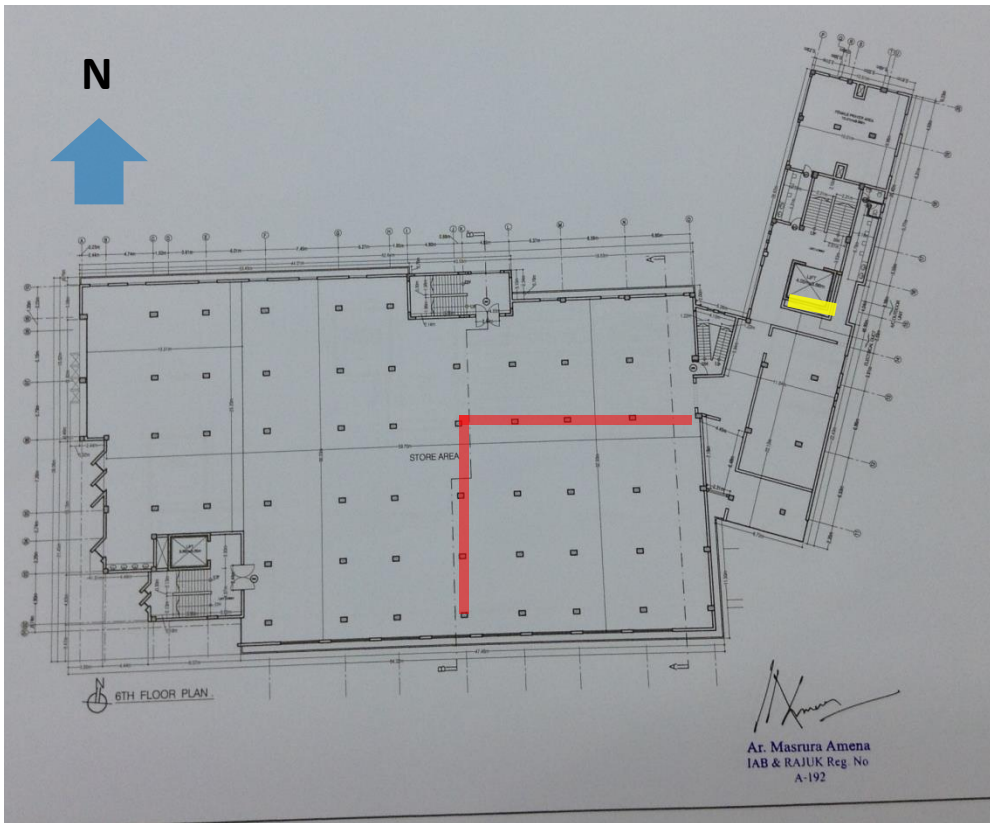
Very truly yours
 For Shaheedullah and New Associates Ltd.


 S.M. Shaheedullah
 Managing Director



Letter on file outlining a noted rebar deficiency onsite and an verbal remedial action agreed.

Minor differences between layout drawings and as-built



6th floor plan

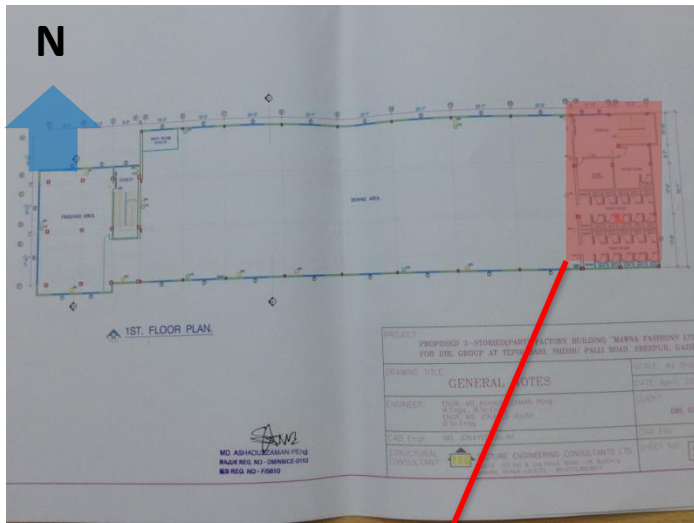
Walls are not shown in the architectural drawing

Full opening is only on 6th floor and half opening on all other floors



Building 2

Heavily loaded columns



Toilet built up in the marked area



Heavily loaded column

Non-Engineered Roof structure lack of longitudinal bracing on the upper floor

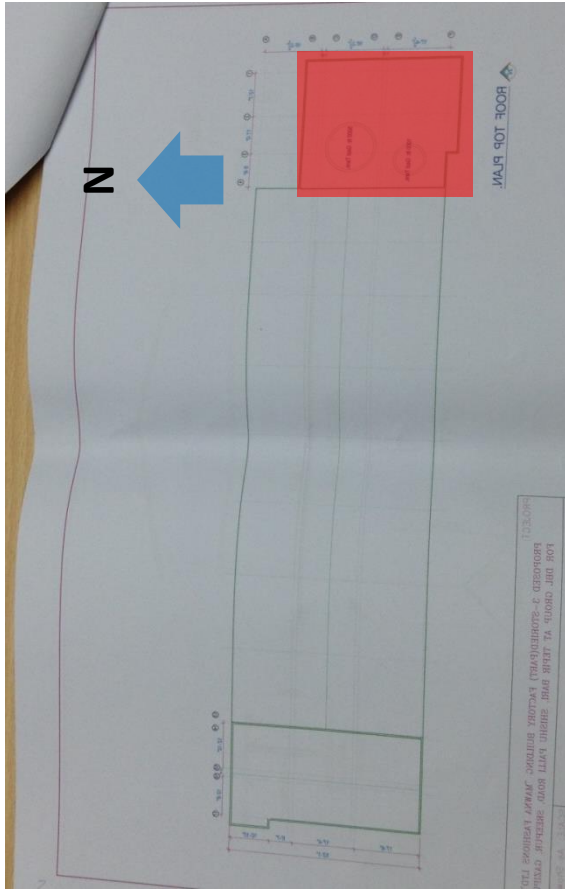


Missing roof bracings



Lack of bracings on the metal roof

Water tanks on the roof



Roof Layout

Position of the water tanks



Water Tanks on the roof

1 5000 litre

2 1000 litre

3 1500 litre

No fire proofing noted on the steel



1st floor slab

**Lack of fire
proofing on
the steel**

No fire proofing on the steel sections during the inspection

No Observations on Building 3

Priority Actions

Problems Observed

Building 1

ITEM 1: Large cantilever in North East corner under toilet (structural details queried in a letter following a site inspection)

ITEM 2: Minor differences between layout drawings and as-built

Building 2

ITEM 1: Heavy Loaded columns in toilet area

ITEM 2: Lack of Roof and longitudinal bracing on the upper floor

ITEM 3: Water tanks on the roof

Building 3

No observations

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Building 1 Large cantilever in North East corner under toilet (structural details queried in a letter following a site inspection)	Letter on file relating to large cantilever where there was a deficiency in rebar noted. It suggested a reduction in the cantilever. Factory engineer to carry out a review of the as-built structure including the columns and cantilever beams in this area.	6-weeks
2	Building 1 Large cantilever in North East corner under toilet (structural details queried in a letter following a site inspection)	The current documentation is to be brought up to date with the agreed remedial action.	6-weeks
3	Building 1 Large cantilever in North East corner under toilet (structural details queried in a letter following a site inspection)	Carry out any remedial actions from the review	6-months
4	Building 1 Minor differences between layout drawings and as-built	Factory Engineer to update drawings to reflect as-built structure.	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
5	Building 2 Heavy loaded column in toilet area	Factory Engineer to investigate the floor loading, and advise on any necessary alterations taking account of floor capacity and column capacity.	6-weeks
6	Building 2 Heavy loaded column in toilet area	Make any structural alterations as advised by Factory Engineer.	6-months
7	Building 2 Lack of Roof and longitudinal bracing on the upper floor	Factory Engineer to review the steel portal structure and its ability to resist lateral load. In particular the lack of effective roof bracing	6-weeks
8	Building 2 Lack of Roof and longitudinal bracing on the upper floor	Make any structural alterations as advised by the Engineer.	6-months
9	Building 2 Water tanks on the roof	Factory Engineer to investigate the roof capacity to carry the Gazi water tanks, and advise on any necessary alterations taking account of slab capacity	6-weeks
10	Building 2 Water tanks on the roof	Make any structural alterations as advised by the Engineer.	6-months