

Rizvi fashions Ltd.

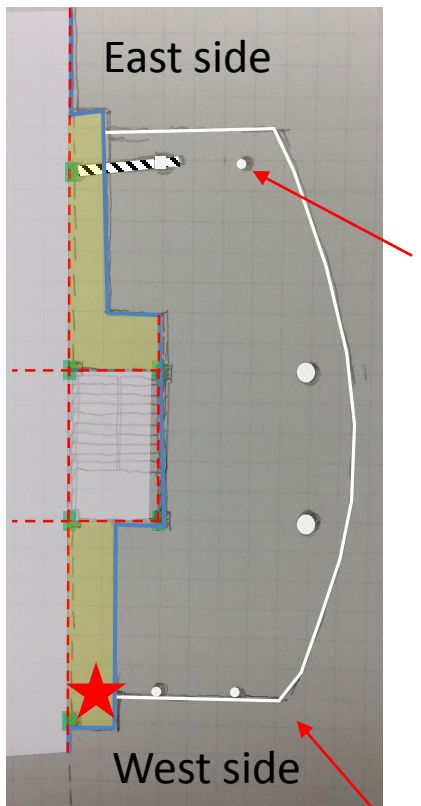
Anwar Jang Road, 1 No. Kalma Bazar, Savar
(23.87805944N, 90.28969194E)

15th February 2015

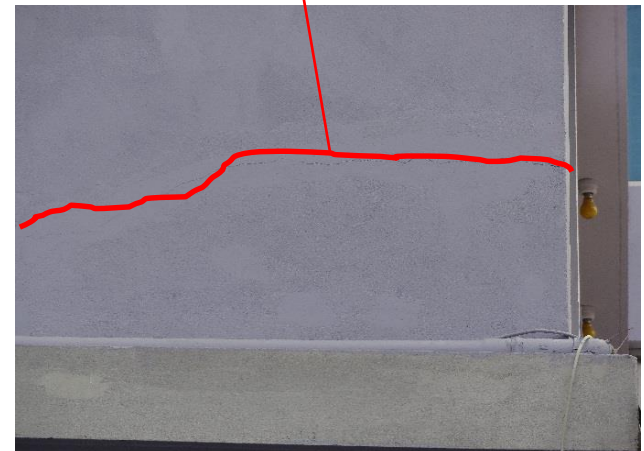
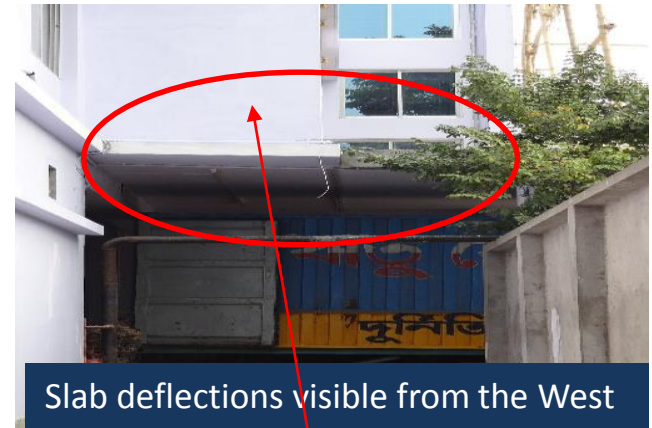


Observations

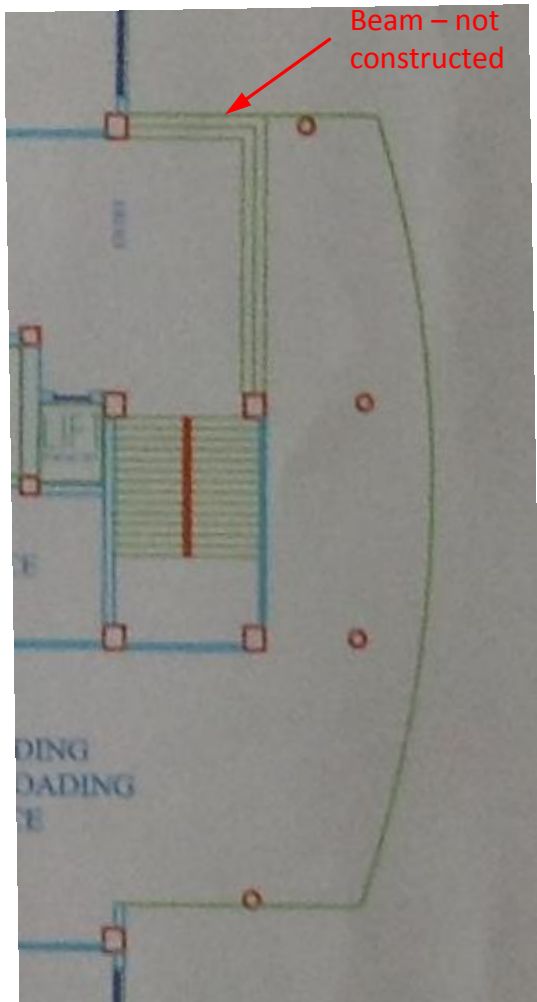
Cracking above 1st Floor on the cantilever part and the entrance porch



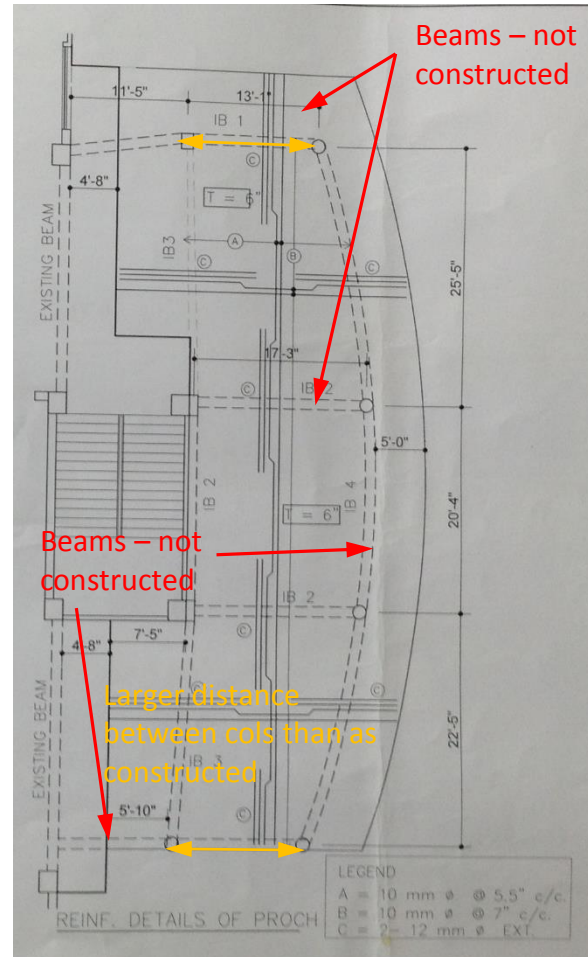
Possible deflection of first floor cantilever / canopy slab due to following works , causing cracking in supported external brickwork wall (red star).



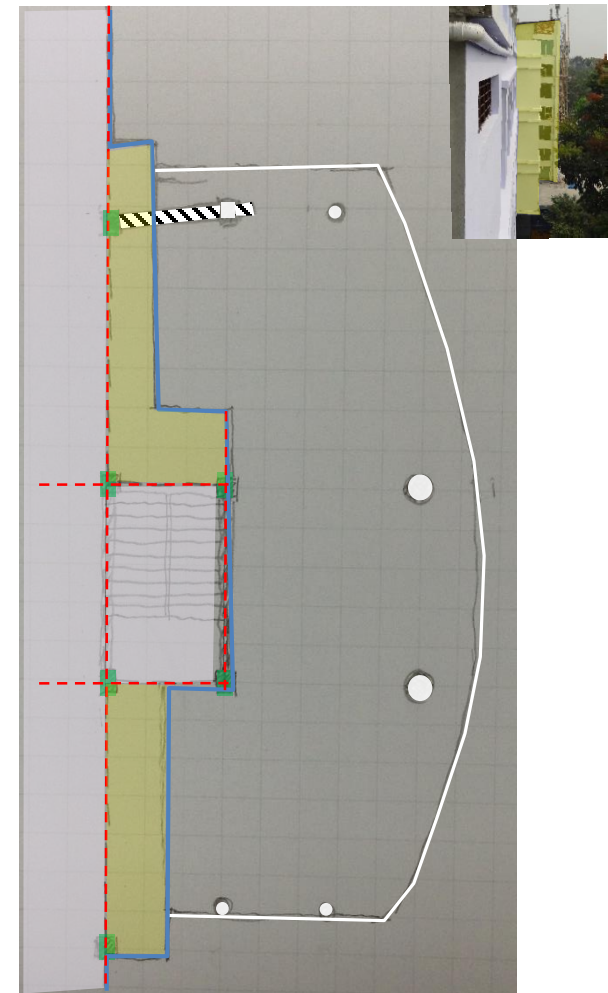
Discrepancies between drawings and as-built details



Gen ground floor dwg – porch canopy detail

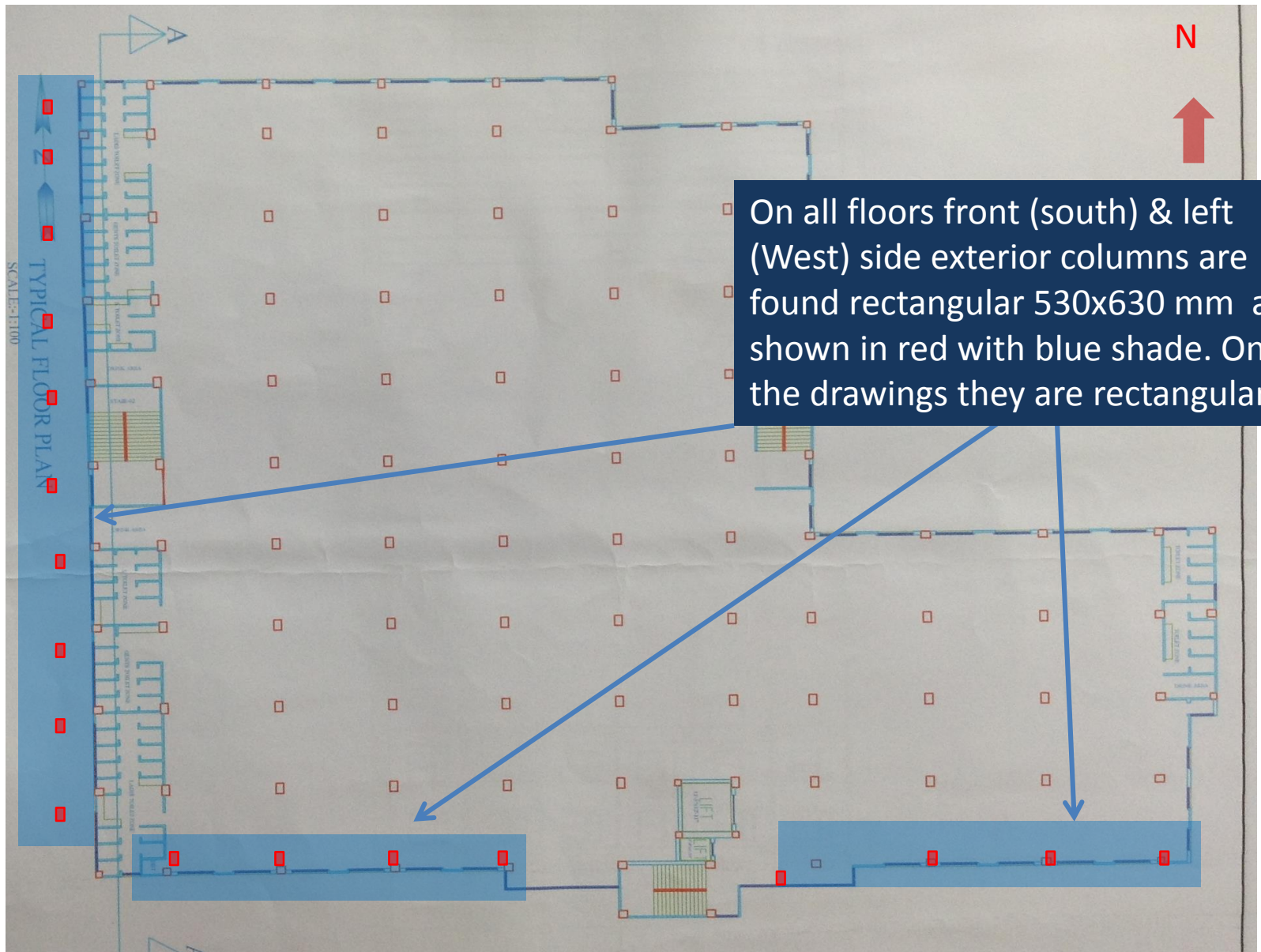


Porch canopy structural dwg

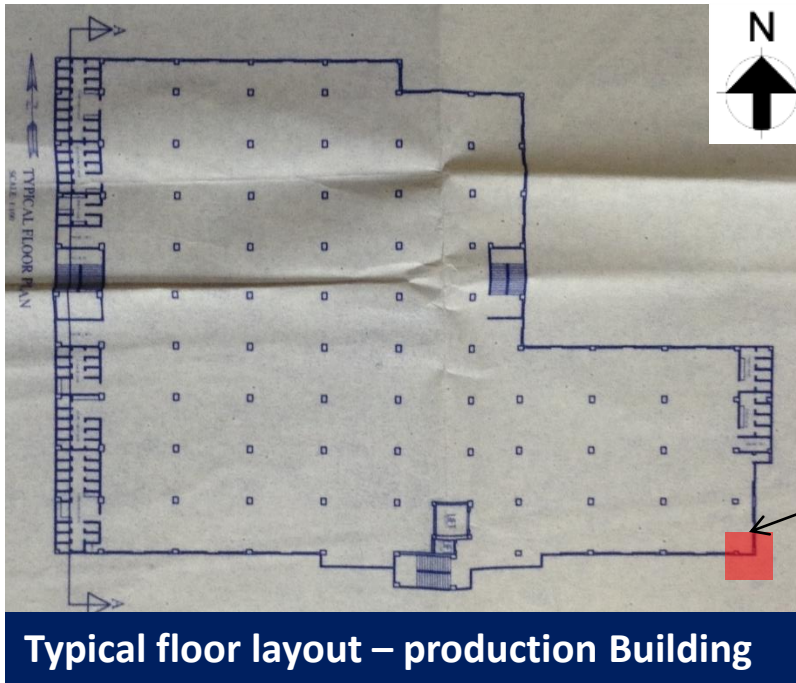


As-constructed

Canopy size and spans are reduced compared with design. However the canopy has been constructed at a flat slab with no beams.



Hairline cracking in the cantilever part



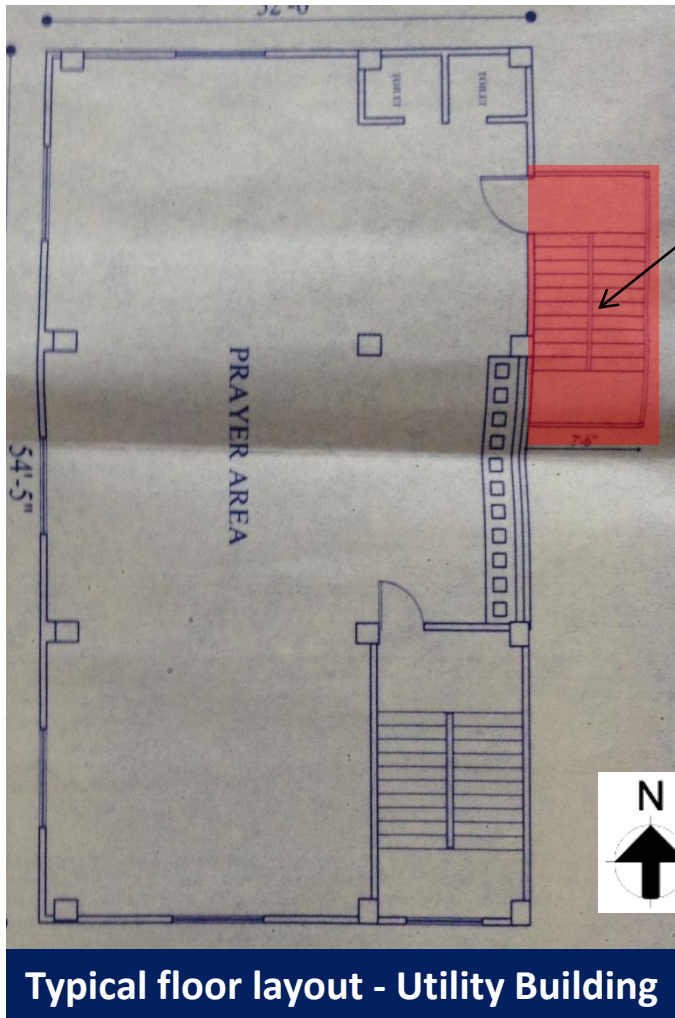
Hairline cracking in the cantilever part.



Cantilever on South-East Corner

Apparently non engineering evacuation stairs on the Utility Building

The evacuation stairs are not yet constructed, but they have plan to build it. This structure looks like a non engineering steel structure and there are no existing connection details.



Typical floor layout - Utility Building

Priority Actions

Problems Observed

ITEM 1: Cracking to 1st floor on the cantilever part and the entrance porch

ITEM 2: Discrepancies between structural drawings and the as-constructed arrangement of the factory

ITEM 3: Hairline cracking in the cantilever part

ITEM 4: Apparently non engineering evacuation stairs on the Utility Building

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Cracking to 1st floor level on the cantilever part and the entrance porch	An Engineering Assessment of the cantilever parts on the main entrance porch (east and west sides) of the Factory Building to be carried out.	6-weeks
2	Cracking to 1st floor level on the cantilever part and the entrance porch	Factory Engineer to review design, loads and slab stresses in the entering porch and cantilevers using a model based design check to loading set out in BNBC-2006.	6-weeks
3	Cracking to 1st floor level on the cantilever part and the entrance porch	Do not load the zones of the cantilever until the end of the Engineering Assessment.	6-weeks
4	Cracking to 1st floor level on the cantilever part and the entrance porch	Make structural alterations as advised by Engineer. Sections of plaster finish to be removed to investigate if cracks penetrate the building structure. Building Engineer to review further if cracks are found to penetrate into building structure.	6-months
5	Cracking to 1st floor level on the cantilever part and the entrance porch	Carry out repair remedial works as required.	6-months
6	Cracking to 1st floor level on the cantilever part and the entrance porch	Continue to monitor for cracking on an on-going basis.	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
7	Discrepancies between structural drawings and the as-constructed arrangement of the factory	Building engineer to survey as constructed building. Updated drawings to be prepared showing the correct as constructed layout.	6-months
8	Hairline cracking in the cantilevers	Sections of plaster finish to be removed to investigate if cracks penetrate the building structure. Building Engineer to review further if cracks are found to penetrate into building structure.	6-months
9	Hairline cracking in the cantilevers	Carry out repair remedial works as required.	6-months
10	Hairline cracking in the cantilevers	Continue to monitor for cracking on an on-going basis	6-months
11	Apparently non engineered stair case structures	Before construction the Building Engineer to check the capacity of the lightweight stairs and make any necessary alterations. The connections to the Utility building must also be precise.	6-months