ABM Fashions Ltd

1143&1145, Konabari, Kashimpur Road, Gazipur
(24.004348N, 90.320706E)

27th October 2015

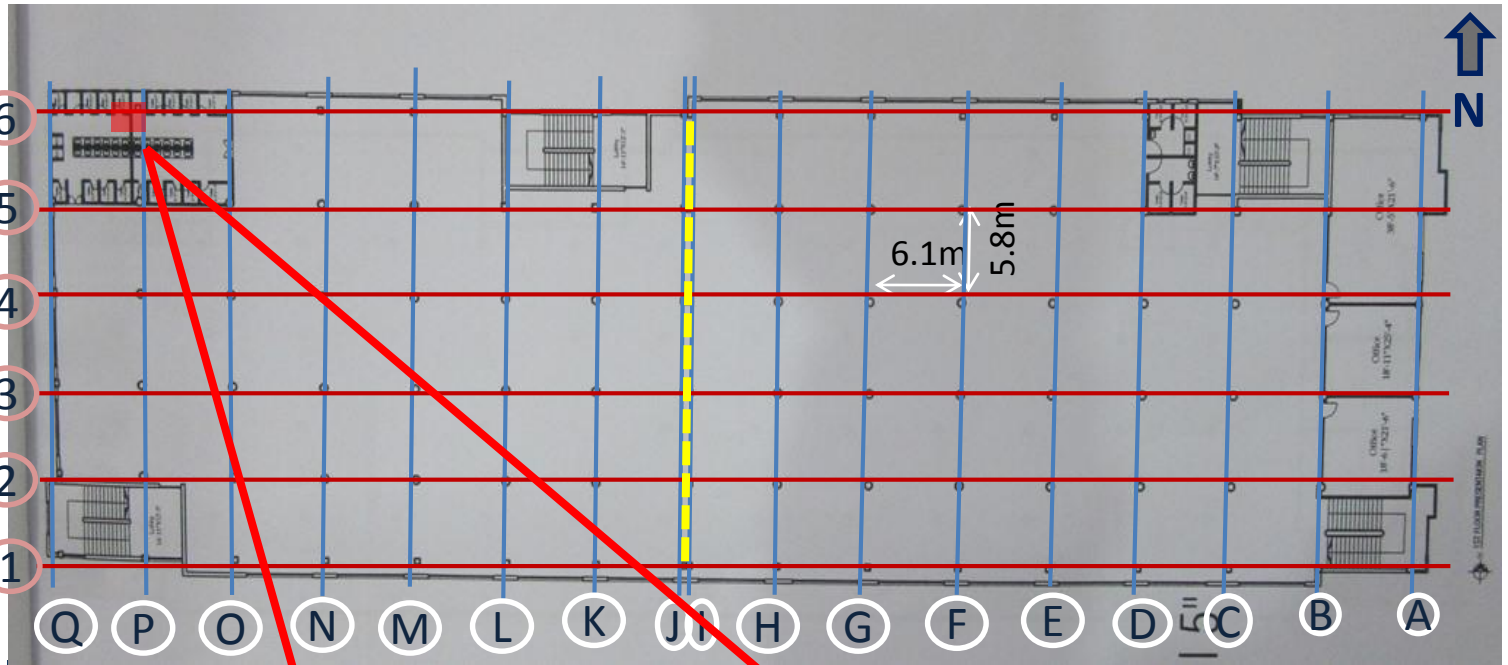
ACCORD on Fire and Building Safety in Bangladesh

ARUP

Observations

- Highly Stressed column on grid P-6 at toilet area with cantilever due to finishes build up. (Applies both to column capacity and punching shear of slab)
- Discrepancies between permit drawings and as constructed drawings.(Cantilevers are not shown on drawings and stairs beams are missing. It is not known if column head shear reinforcement is present)
- Beam missing at middle of north stair at 1st floor.
- Uncontrolled storage at 5th floor.

Highly stressed column due to finishes build up in toilet area.



High Stressed column on P-6 grid at toilet area with cantilever.

Observations

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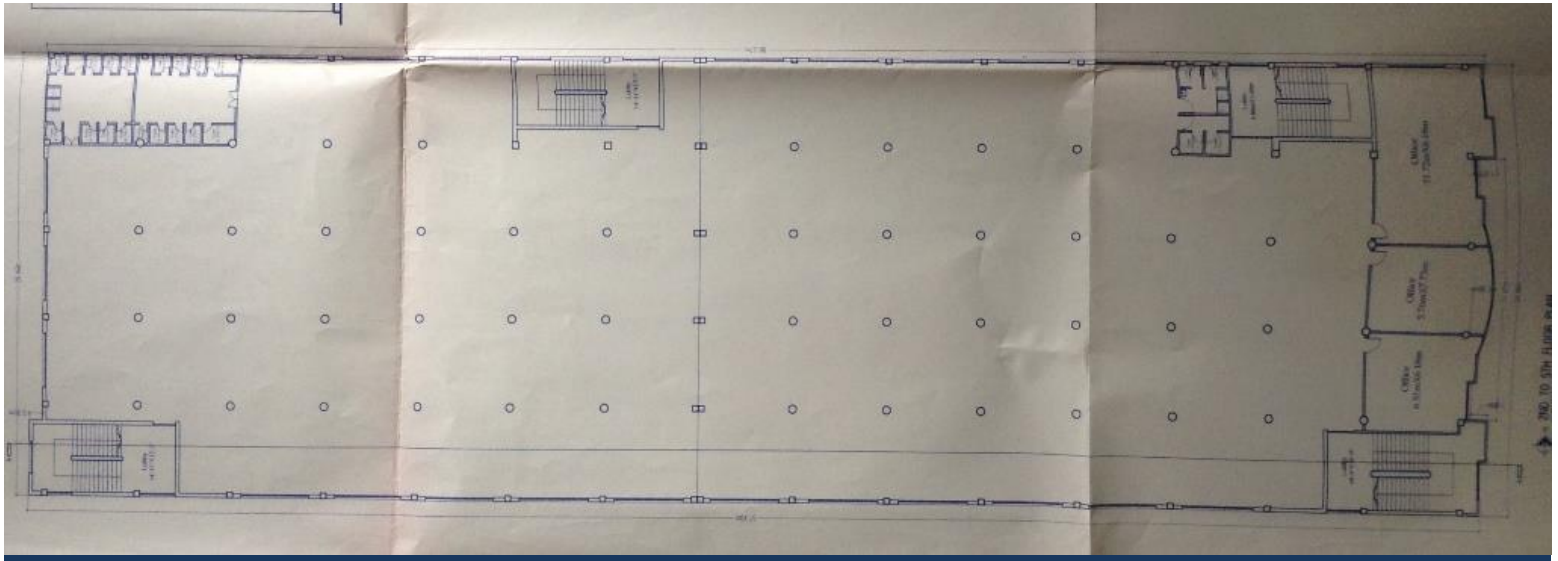
Discrepancies between Permit Drawings and As-Constructed Drawings



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Permit drawing do not show cantilevers at north and south

Cantilever at South

Cantilever at North

Observations

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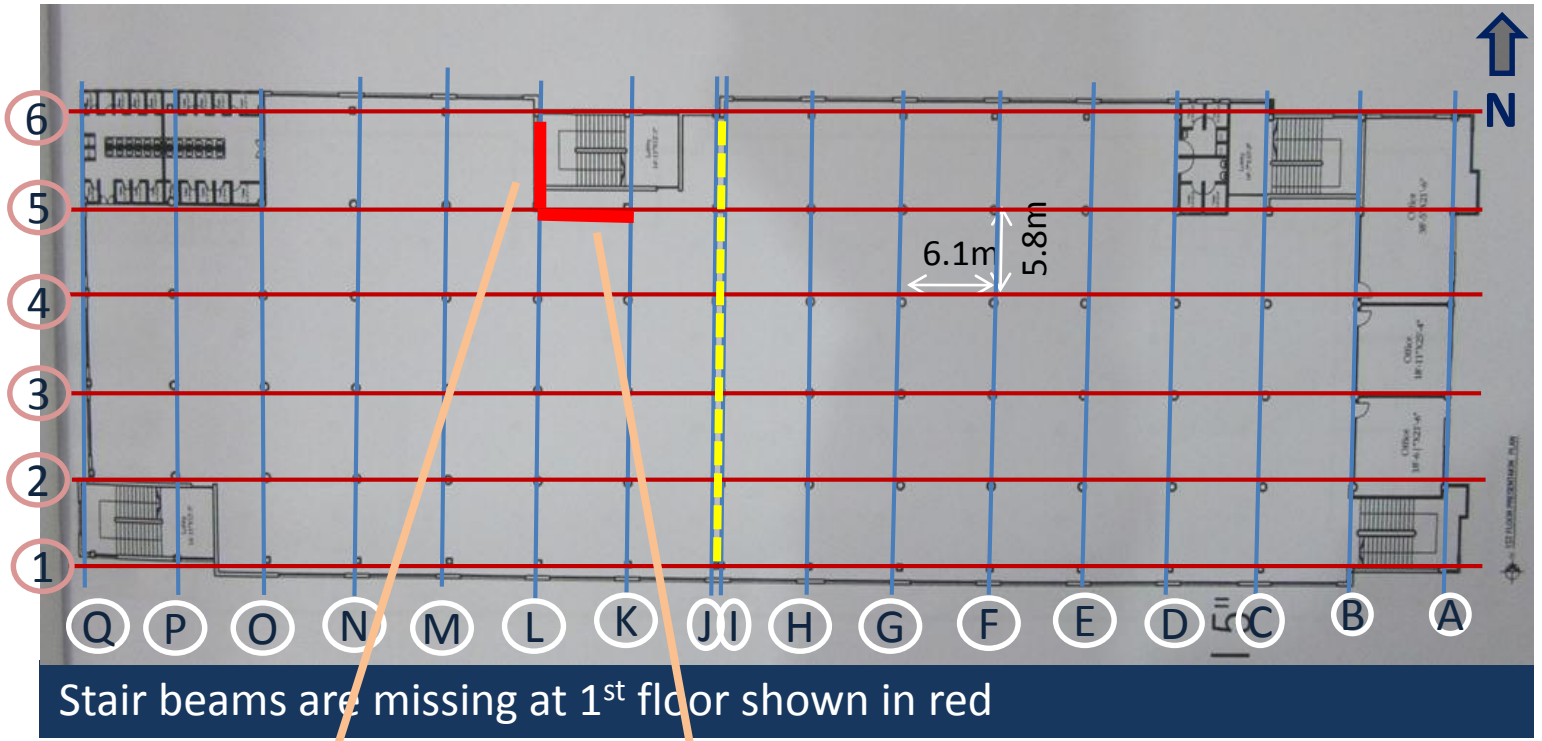

Stair beams are missing at 1st floor shown in red

1st floor

Observations

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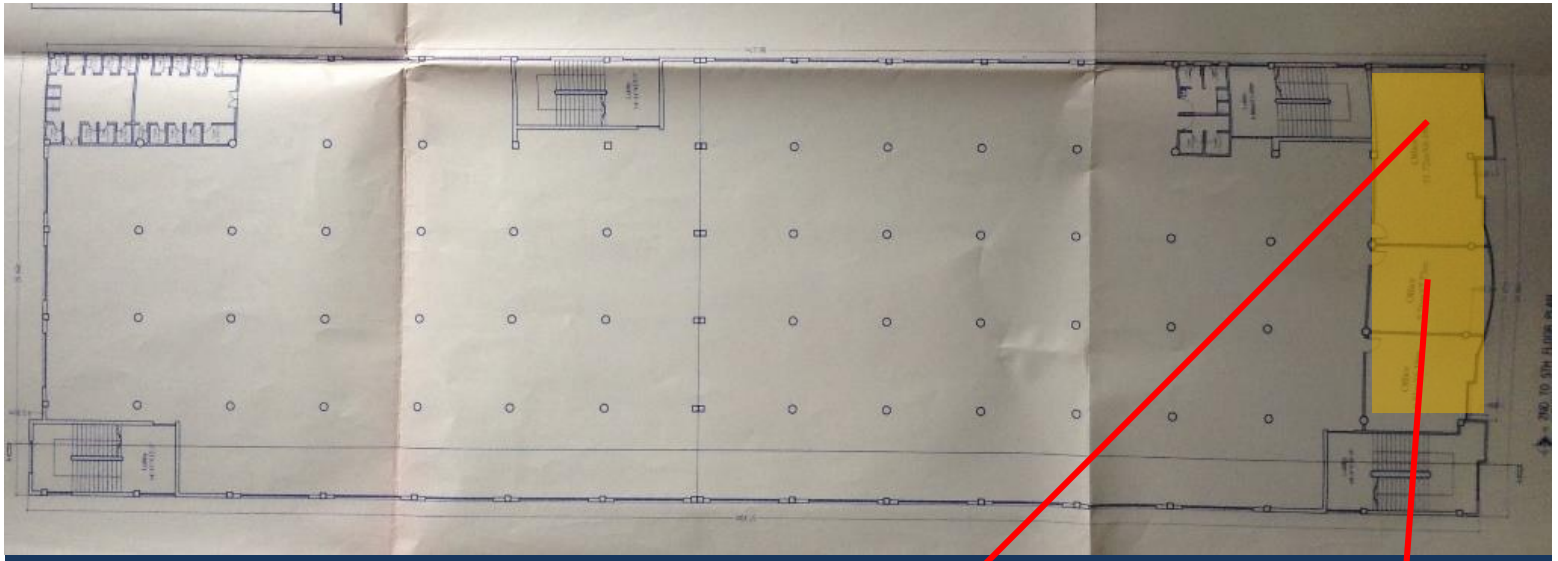
Storage exceeding loading plan at 5th floor



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Uncontrolled storage at 5th floor (shown in amber)

Observations

Priority Actions

Problems Observed

ITEM 1: Highly stressed column at grid P6
ITEM 2: Discrepancy between drawings and existing structure.
ITEM 3: Discrepancy between loading plan and loaded areas.

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Column on grid P-6 appears to be critically stressed both in capacity and punching shear. Verify concrete strength in columns.	Do not carry out any further fit out works in the toilets in the area of column P6 until design check has been carried out.	**Immediate - Now**
2	Column on grid P-6 appears to be critically stressed both in capacity and punching shear. Verify concrete strength in columns.	Factory Engineer to carry out a detailed check on the loading and actual capacity of column on grid P6. A check is to be carried out on site to ascertain if shear reinforcement has been provided in the slab at the column head.	**6-weeks**
3	Column on grid P-6 appears to be critically stressed both in capacity and punching shear. Verify concrete strength in columns.	Verify insitu concrete strengths either by 100mm diameter cores or existing cylinder strength data for column P-6.	**6-weeks**
4	Column on grid P-6 appears to be critically stressed both in capacity and punching shear. Verify concrete strength in columns.	Make structural alterations if required as advised by Factory Engineer	**6-months**

Item No.	Observation	Recommended Action Plan	Recommended Timeline
5	Discrepancies between drawings and as built structure. Possible punching shear problem on edge and central columns.	Factory Engineer to check on site if shear reinforcement has been put into the slab at column heads both at the perimeter and the middle of the slab.	**Immediate - Now**
6	Discrepancies between drawings and as built structure. Possible punching shear problem on edge and central columns.	Make any structural alterations as advised by Factory Engineer.	**6-weeks**
7	Discrepancies between drawings and as built structure. Possible punching shear problem on edge and central columns.	Factory Engineer to fully compare the building drawings with the as-built structure.	**6-weeks**
8	Discrepancies between drawings and as built structure. Possible punching shear problem on edge and central columns.	Update drawings to fully record the as-built condition of the building.	**6-months**
9	Actively manage and implement existing load plan.	Factory Engineer to review loads on floor areas.	**6-weeks**
10	Actively manage and implement existing load plan.	Actively manage existing loading plan for all floor plates within all buildings, giving consideration to floor capacity and column capacity.	**6-weeks**