AKH ECO APPARELS LTD.

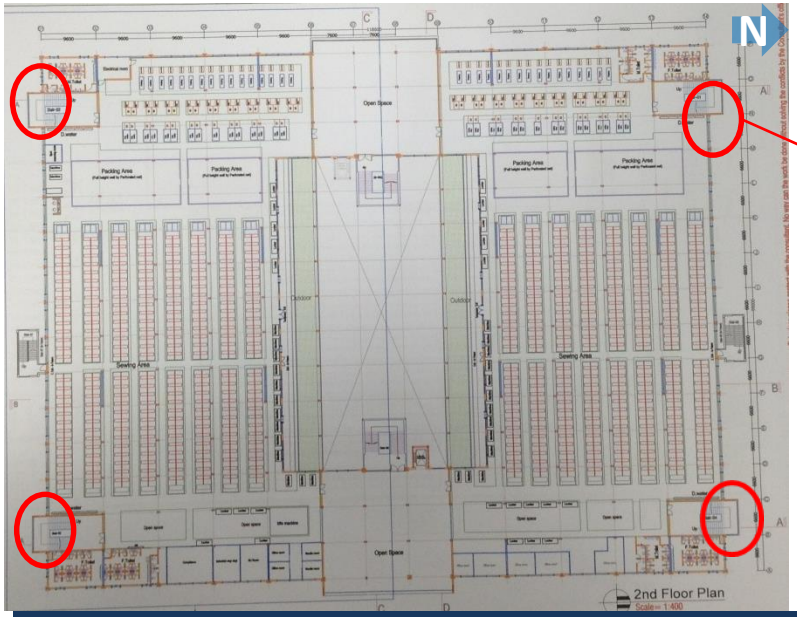
495-Balithia, Shah-Belishwer, Dhamrai, Dhaka
(23.9166 N, 90.1136 E)
18th October 2015

ACCORD on Fire and Building Safety in Bangladesh

ARUP

Observations

Connection of cantilever beams at stair appear light



Typical floor plan

Connection of cantilevers at stair appear light

5 mm stiffener

Top of connection is open

Observations

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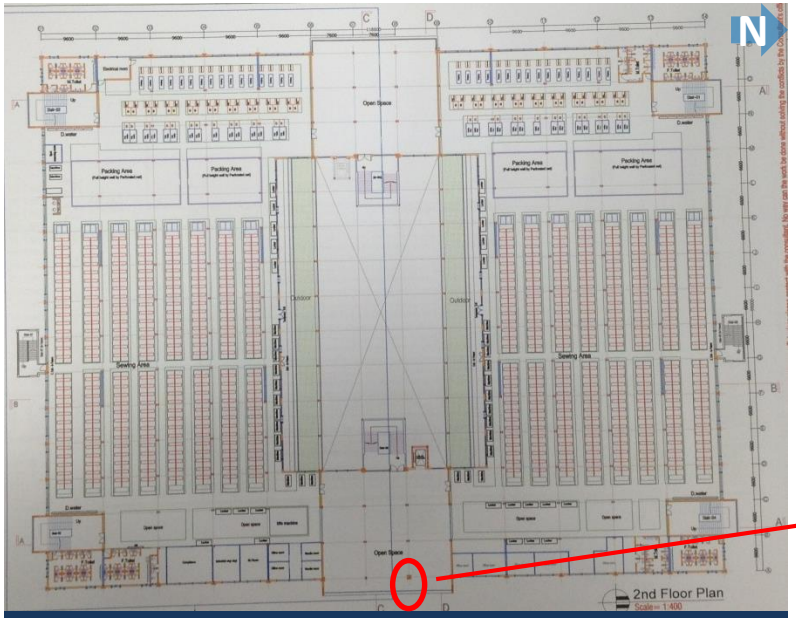
Connections of cantilevers on floor plate at level 4 appear light



Typical floor plan

Various depth of beam on each side of column

Connections between cantilevers on floor plate at level 2 appear light

Observations

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Open connections noted throughout the building

Open connections noted throughout the building

Observations

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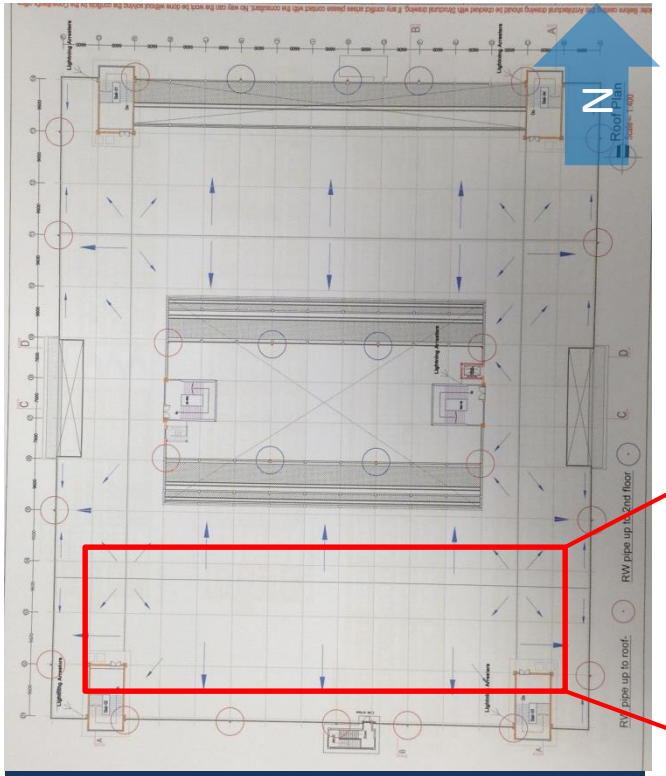
Column stubs noted on roof at southern end



Typical Roof Plan

Column stubs noted on roof at southern end. Any proposed additions to the existing building structure, including additional storeys, should be reviewed by the Building Engineer

Observations

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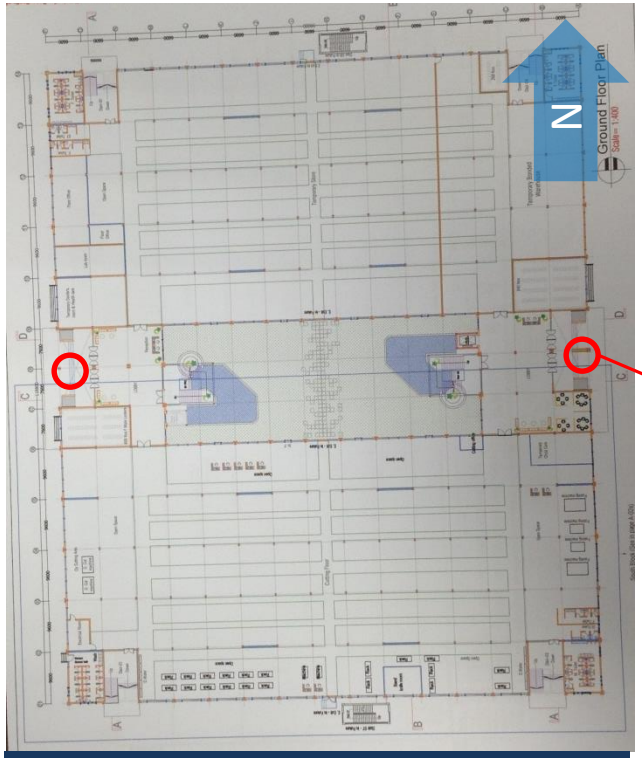
Loading bay column not protected from traffic collision



Typical Ground Floor Plan

Loading bay column not protected from traffic collision

Observations

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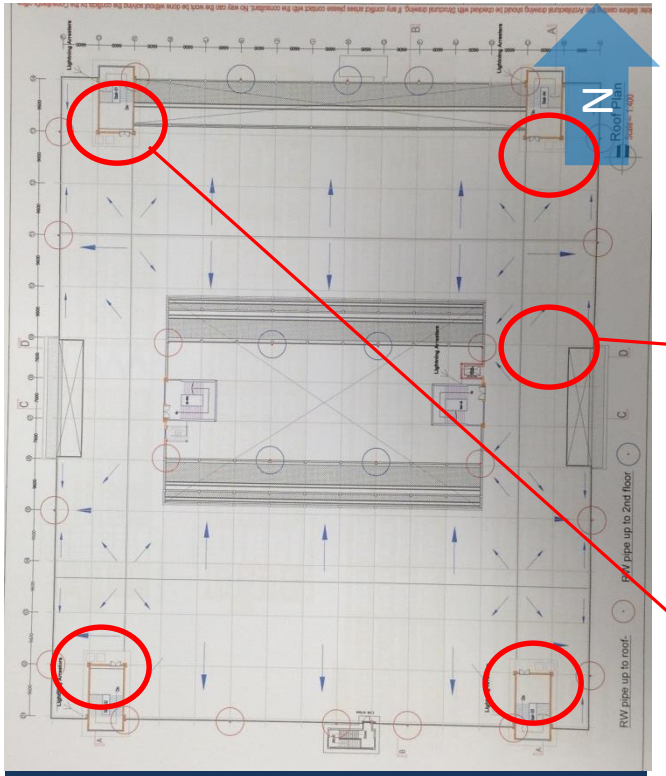
Rubble and water tanks noted on roof



Typical Roof Plan

Rubble and water tanks noted on roof.

Observations

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Priority Actions

Problems Observed

ITEM 1 Connection of cantilever beams at stair appear light
ITEM 2 Connections of cantilevers on floor plate at level 4 appear light
ITEM 3 Open connections noted throughout the building
ITEM 4 Column stubs noted on roof at southern end.
ITEM 5 Loading bay column not protected from traffic collision
ITEM 6 Rubble and water tanks temporary noted on roof.

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Connection of cantilever beams at stair appear light, particularly the stiffener	Building Engineer to review design of the cantilever beam/column connection. It is also noted that the top of the cantilever connection is not fully tightened	**6-weeks**
2	Connection of cantilever beams at stair appear light, particularly the stiffener	Building Engineer to review design of the cantilever beam/column connection. It is also noted that the top of the cantilever connection is not fully tightened	**6-months**
3	Connections of cantilevers on floor plate at level 4 appear light. Note lack of deep back span beam	Building Engineer to review design of the cantilever beam/column connection. There is a lighter beam forming the back span It is also noted that the top of the cantilever connection is not fully tightened	**6-weeks**
4	Connections of cantilevers on floor plate at level 4 appear light. Note lack of deep back span beam	Carry out any remedial action as a result of the connection review. Alter connection to avoid gap between end plate and column flange	**6-months**

Item No.	Observation	Recommended Action Plan	Recommended Timeline
5	Open connections noted throughout the building	Building Engineer inspect and snag all connections and agree remedial actions.	**6-weeks**
6	Open connections noted throughout the building	Carry out remedial actions to open connections.	**6-months**
7	Column stubs noted on roof at southern end	Any proposed additions to the existing building structure, including additional storeys, should be reviewed by the Building Engineer.	**6-weeks**
8	Loading bay column not protected from traffic collision	Building engineer to review column in loading bay and its vulnerability to a collision by a truck.	**6-weeks**
9	Loading bay column not protected from traffic collision	Install protective measures following from above review	**6-months**
10	Rubble and water tanks temporary noted on roof.	Building engineer to review loading from 5000litres tanks on roof. (advised tanks were temporary as pumps were yet to be installed for underground tank)	**6-weeks**
11	Rubble and water tanks temporary noted on roof.	Rubble to be removed from roof. Remove temporary tanks if required by above review	**6-months**