Chorka Textile Ltd. (New Building)

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(23.898106, 90.574138)

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ACCORD
on Fire and Building Safety in Bangladesh

Observations

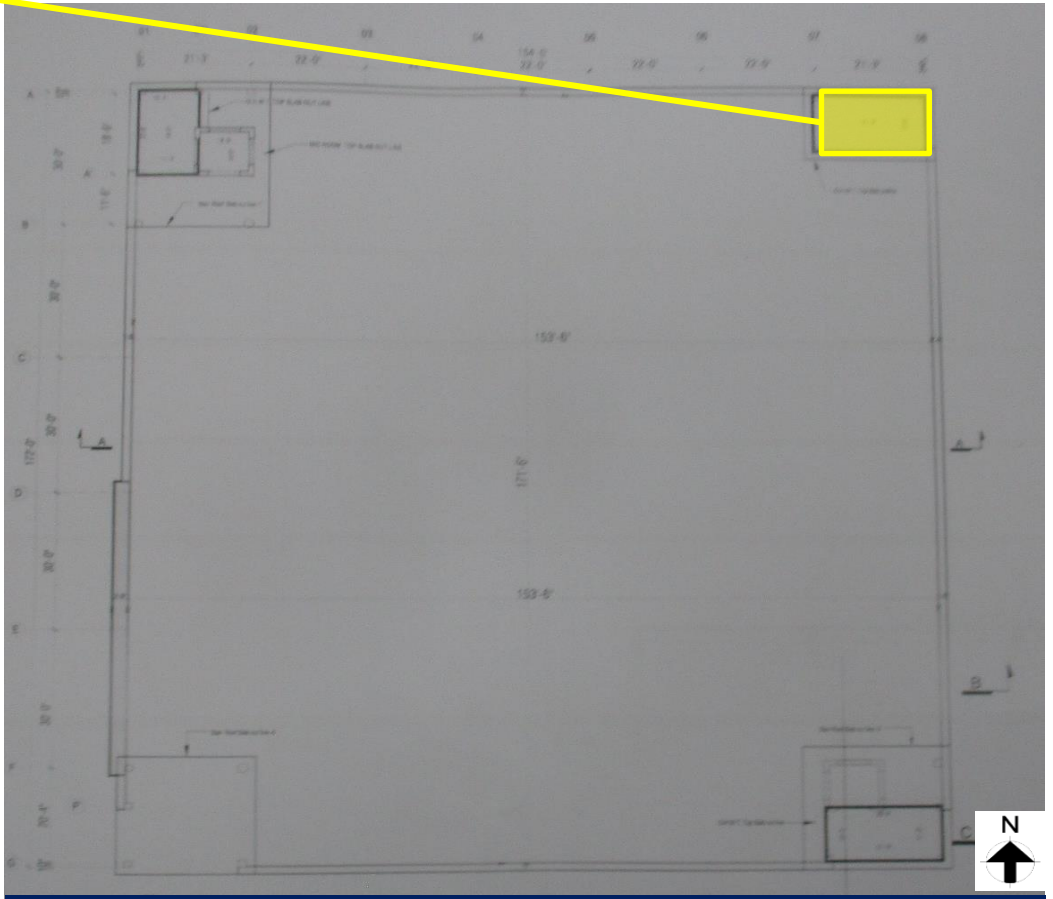
Column to be stressed above normal design limits

Observations: Factory Building

R.C.C water tank

RC wall around water tank

Cursory calculations considering 3kpa (as per provided load plan) indicates that Columns appears to be stressed above normal design limits.

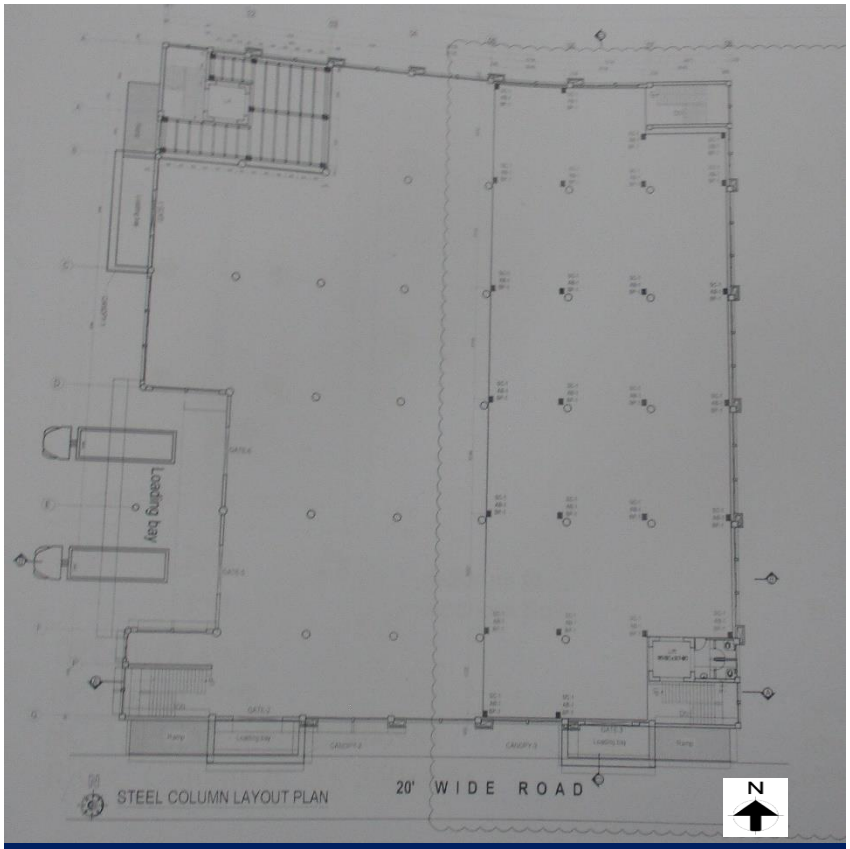


Layout Plan

Observations: Factory Building

Discrepancies between provided drawings and on site condition for mezzanine portion.

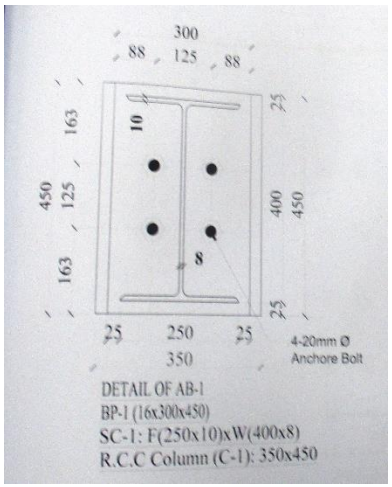
Observations: Factory Building



Steel column layout plan

Column sizes are not match with provided as-built drawings. Flange widths were found 240 mm instead of 250 mm in some steel columns at mezzanine floor.

On-site measurement



Observations: Factory Building

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Bolt missing

Bolts were missing in several location at sub-beam & main beam connection.

Observations: Factory Building

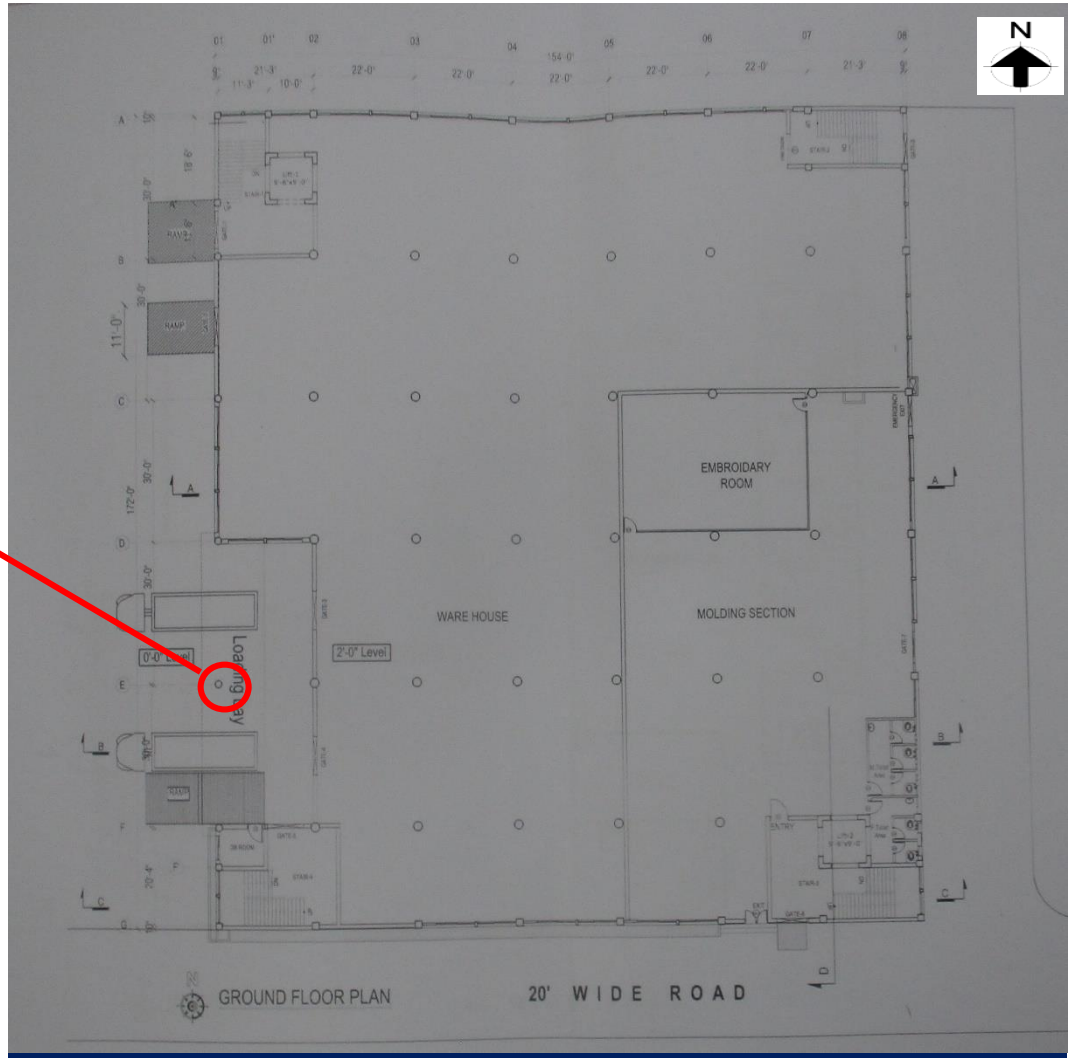
Roof appears not to have any waterproofing system

During inspection water ponding observed on roof. Factory engineer is required to check that roof finishes have been installed and roof is draining freely.

Observations: Factory Building

Columns susceptible to have vehicle impact

Impact protection not provided to columns at loading – unloading area. Columns are susceptible to have impact loading from vehicles.



Ground Layout

Observations: Factory Building

Problems Observed

Factory Building:

01: Column to be stressed above normal design limits.

02: Discrepancies between provided drawings and on site condition for mezzanine portion.

03: Bolt missing.

04: Roof appears not to have any waterproofing system.

05: Columns susceptible to have vehicle impact.

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Column to be stressed above normal design limits	Building Engineer to review design, loads and column stresses in area identified above.	**6-weeks**
2	Column to be stressed above normal design limits	Verify in-situ concrete stresses by 100mm dia. cores from min. 4 no. column from ground floor level.	**6-weeks**
3	Column to be stressed above normal design limits	Produce and actively manage a loading plan for all floor plates within the factory, giving consideration to floor capacity and column capacity.	**6-weeks**
4	Column to be stressed above normal design limits	Make any structural alterations as advised by Building Engineer.	**6-months**
5	Column to be stressed above normal design limits	Continue to implement loading plan.	**6-months**

Item No.	Observation	Recommended Action Plan	Recommended Timeline
6	Discrepancies between provided drawings and on site condition for mezzanine portion	Building Engineer to survey as-built structure and prepare accurate as-built survey information for steel part.	**6-weeks**
7	Bolt missing	Install missing bolts	**6-weeks**
8	Roof appears not to have any waterproofing system	Waterproofing on the roof slab is to be applied or improved. Moreover the roof slab drainage system should be investigated and improved.	**6-weeks**
9	Columns susceptible to have vehicle impact	Install a barrier to prevent vehicle impact on column	**6-weeks**