

KC Lingerie Ltd. (Unit-2)

57/1, Water Works Road, Godnail, Narayangong 1400.

(23.64044, 90.51414)

23th February 2021

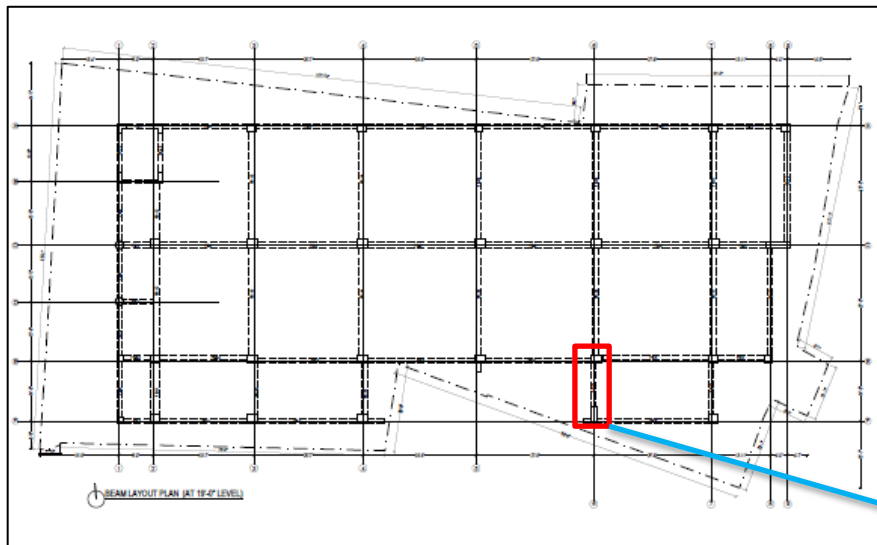


Building Information

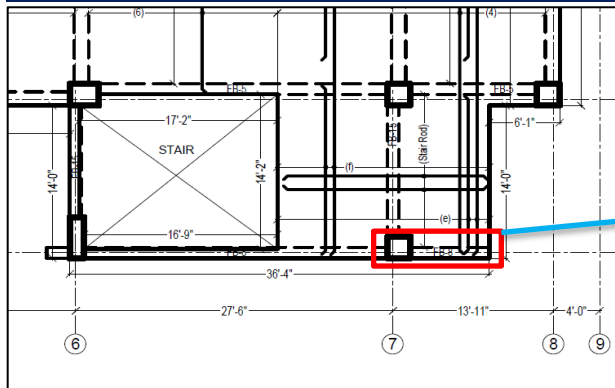
1. Building-2: (G+5)

Observations

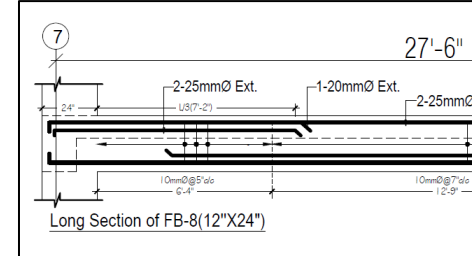
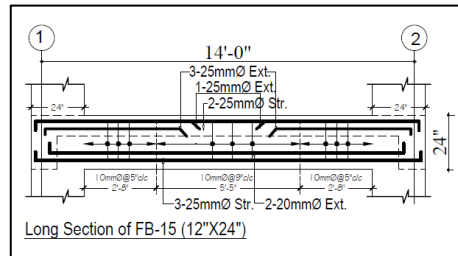
Discrepancies in as-built drawing with on-site condition



Beam layout plan



The d/s of floor beam FB-08 was found approx. 300 mm instead of 412.5 mm.



Sectional details of FB-15 and FB-08

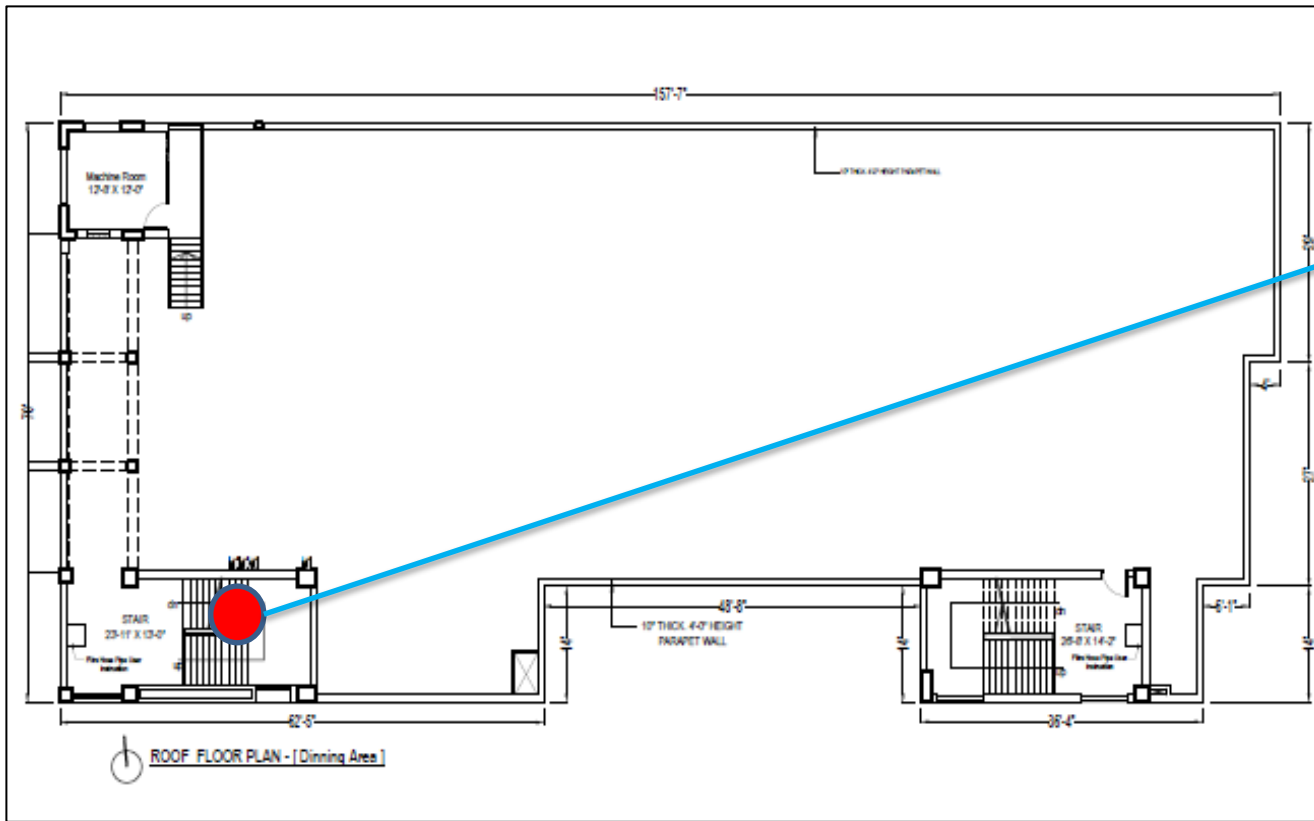


The d/s of floor beam FB-15 was found 375 mm instead of 412.5 mm.

Factory engineer is required to survey the whole structure and update the as-built drawing as per on-site condition.

**Undocumented connecting bridge (steel) at 2nd floor
north side**

Undocumented plastic water tank at stair roof level



Roof layout plan



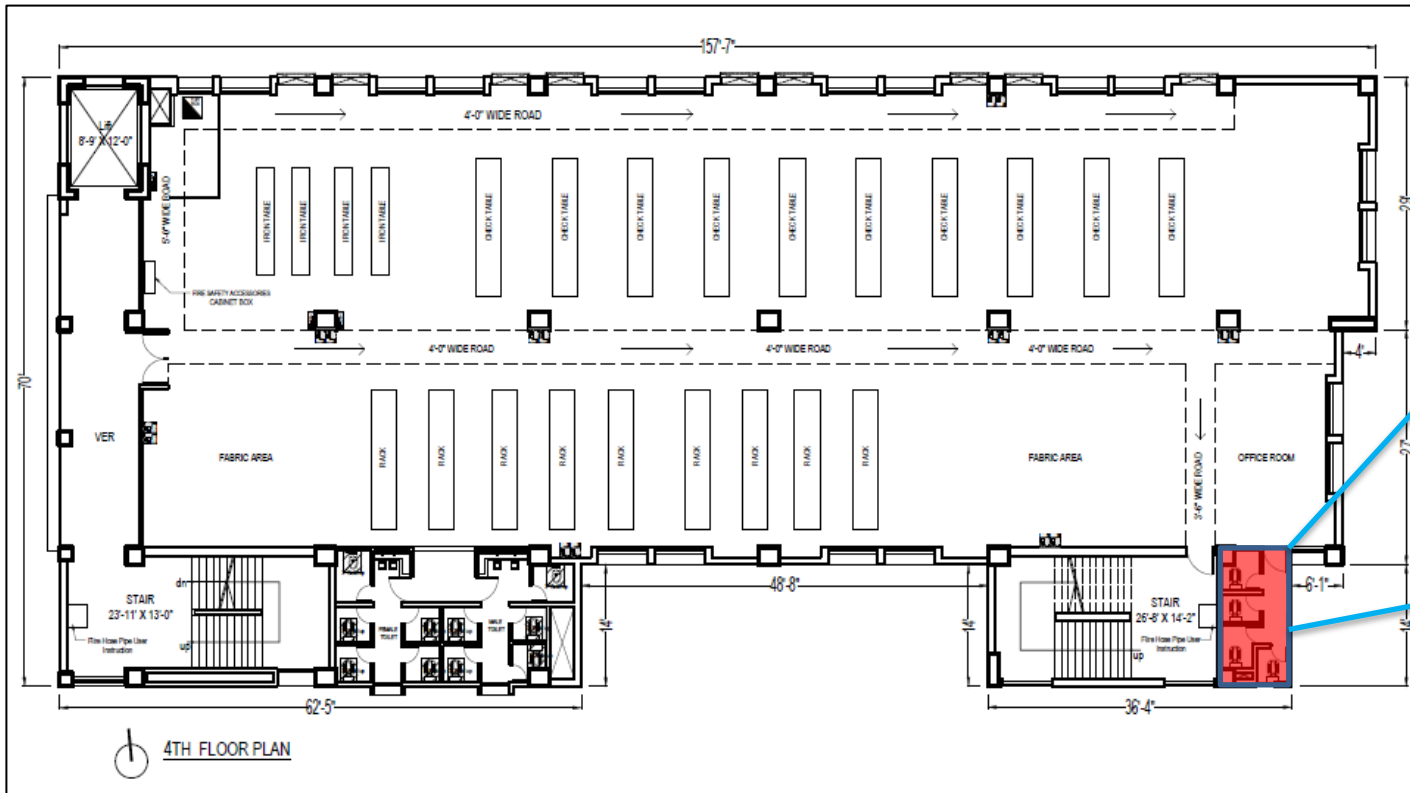
Undocumented water tank



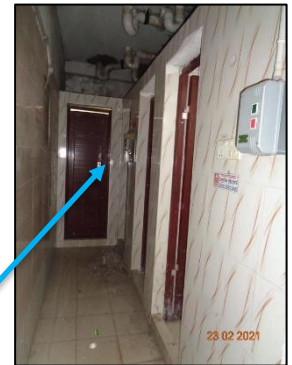
Capacity of water tank

An undocumented plastic water tank (5000 liter) was found at stair roof level. No drawing was available for this water tank. Factory engineer is required to survey the whole structure and update the as-built drawing as per on-site condition.

Toilet zone at south-east corner rest on cantilever



4th floor layout plan



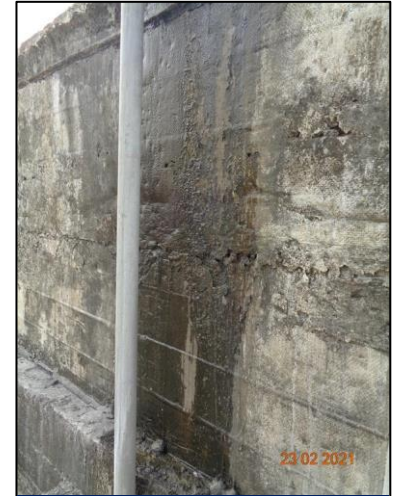
Cantilever toilet at south-east corner

A cantilever toilet was found at south-east corner of the building from ground floor to roof. Factory engineer is required to check the adequacy of the slab at cantilever portion.

Water clogging due to leakage in water supply line.



Water leakage at roof & stair roof



Water leakage in
RC water tank

Due to leakage in the water supply line, water clogging was found at roof & stair roof. Factory engineer is required to take necessary measures to prevent the leakage in the water supply line. Also investigate the reason of leakage to verify if any damaged occurred due to the presence of the moisture in structural members.

Lack of water proofing layer.



No water proofing layer



Signage of water clogging

No water proofing layer was applied on roof. Moreover, drainage system was appeared to be improper. As a result, signage of water clogging was found on roof. Factory engineer is required to improve the drainage system & apply water proofing layer on roof.

Dampness in several locations



Dampness in periphery brick wall at 5th floor



Dampness in stair bottom slab

Dampness was found in periphery brick wall at 5th floor and stair bottom slab from ground floor to roof. Factory engineer is required to investigate the reason of dampness and apply suitable method to repair dampness.

Exposed rebar at stair roof



Exposed rebar at stair roof

Exposed rebar was found at stair roof. The exposed rebars are prone to be corroded. Factory engineer is required to provide rust proof paint to prevent future corrosion.

Cracks found on brick wall



Crack in brick wall



Thickness of crack

Crack was found in several locations on brick wall. Factory engineer is required to investigate the cause of crack and repair the crack as per recommendation from investigation report.

Lack of stability of storage racks



Storage rack



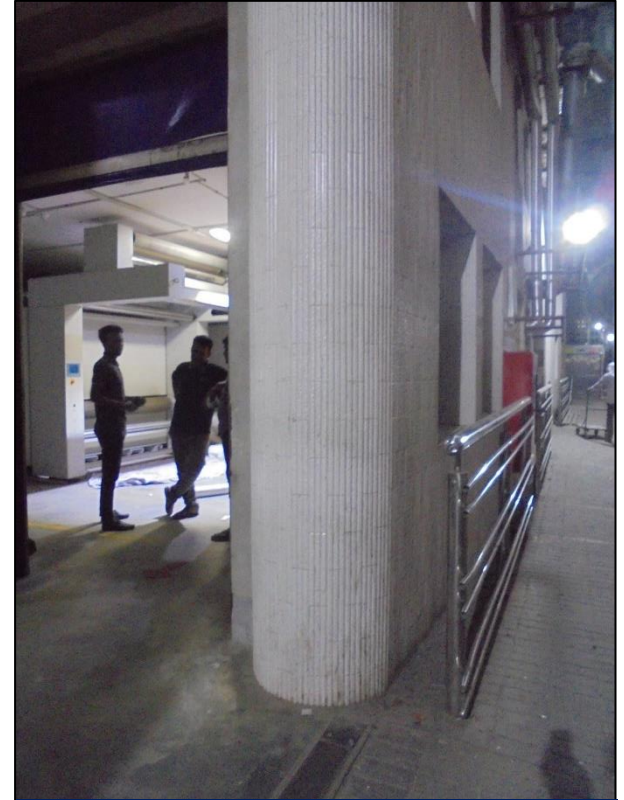
No anchoring with floor

Storage racks in different floor were not anchored with floor. Factory engineer is required to anchor the storage racks with floor to avoid lateral instability.

Column susceptible to vehicle impact



Damage column at 5th floor



Column at ground floor

Column at 5th floor storage area was found slightly damaged due to impact. Also ground floor column is susceptible to vehicle impact. Factory engineer is required to install column guard to prevent column from damage.

Priority Actions

Problems Observed

Building -2:

- Item 01: Discrepancies in as-built drawing with on-site condition.
- Item 02: Undocumented connecting bridge (steel) at 2nd floor north side
- Item 03: Undocumented plastic water tank at stair roof level
- Item 04: Toilet zone at south-east corner rest on cantilever
- Item 05: Water clogging due to leakage in water supply line.
- Item 06: Lack of water proofing layer.
- Item 07: Dampness in several locations
- Item 08: Exposed rebar at stair roof
- Item 09: Cracks found on brick wall
- Item 10: Lack of stability of storage racks
- Item 11: Column susceptible to vehicle impact

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Discrepancies in as-built drawing with on-site condition. (Building -2).	Factory engineer to survey the whole structure and update the as-built drawings as per on-site condition.	6-weeks
02	Discrepancies in as-built drawing with on-site condition. (Building -2).	Complete implementation of any remedial works deemed necessary.	6-months
03	Undocumented connecting bridge (steel) at 2nd floor north side (Building-2)	Factory engineer to survey the whole structure and update the as-built drawings as per on-site condition.	6-weeks
04	Undocumented connecting bridge (steel) at 2nd floor north side (Building-2)	Complete implementation of any remedial works deemed necessary.	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
05	Undocumented plastic water tank at stair roof level (Building -2).	Factory engineer to survey the whole structure and update the as-built drawings as per on-site condition.	6-weeks
06	Undocumented plastic water tank at stair roof level (Building -2).	Complete implementation of any remedial works deemed necessary.	6-months
07	Toilet zone at south-east corner rest on cantilever (Building-2).	Factory management is required to check the adequacy of the slab at toilet portion.	6-weeks
08	Toilet zone at south-east corner rest on cantilever (Building-2).	Complete implementation of any remedial works deemed necessary.	6-months
09	Water clogging due to leakage in water supply line (Building-2)	Factory engineer is required to investigate the reason of water leakage to verify if any damage occurred due to presence of moisture in structural members.	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
10	Water clogging due to leakage in water supply line (Building-2)	Complete implementation of any remedial works deemed necessary.	6-months
11	Lack of water proofing layer (Building-2)	Factory engineer is required to apply water proofing layer on roof.	6-weeks
12	Lack of water proofing layer (Building-2)	Water drainage system is required to be improved.	6-weeks
13	Lack of water proofing layer (Building-2)	Complete implementation of any remedial works deemed necessary.	6-months
14	Dampness in several location (Building - 2)	Factory engineer is required to investigate the reason of dampness and apply suitable method to repair dampness.	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
15	Dampness in several location (Building - 2)	Complete implementation of any remedial works deemed necessary.	6-months
16	Exposed rebar at stair roof (Building-2)	Factory engineer is required to provide rust proof paint to prevent future corrosion.	6-weeks
17	Exposed rebar at stair roof (Building-2)	Building Engineer to investigate the cause of crack and continuous monitoring the status of the crack.	6-months
18	Cracks found on brick wall (Building-2)	Factory engineer is required to investigate the cause of crack and repair the crack as per recommendation from investigation report.	6-weeks
19	Cracks found on brick wall (Building-2)	Complete implementation of any remedial works deemed necessary.	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
20	Lack of stability of storage racks (Building-2)	Factory engineer is required to anchor the storage racks with floor to avoid lateral instability.	6-weeks
21	Lack of stability of storage racks (Building-2)	Complete implementation of any remedial works deemed necessary.	6-months
22	Column susceptible to vehicle impact (Building-2)	Factory engineer is required to install column guard to prevent column from damage.	6-weeks
23	Column susceptible to vehicle impact (Building-2)	Complete implementation of any remedial works deemed necessary.	6-months