

# TEXTIL FASHIONS LTD.

Holding no6/1, Plot -168, Soydana, Gazipur

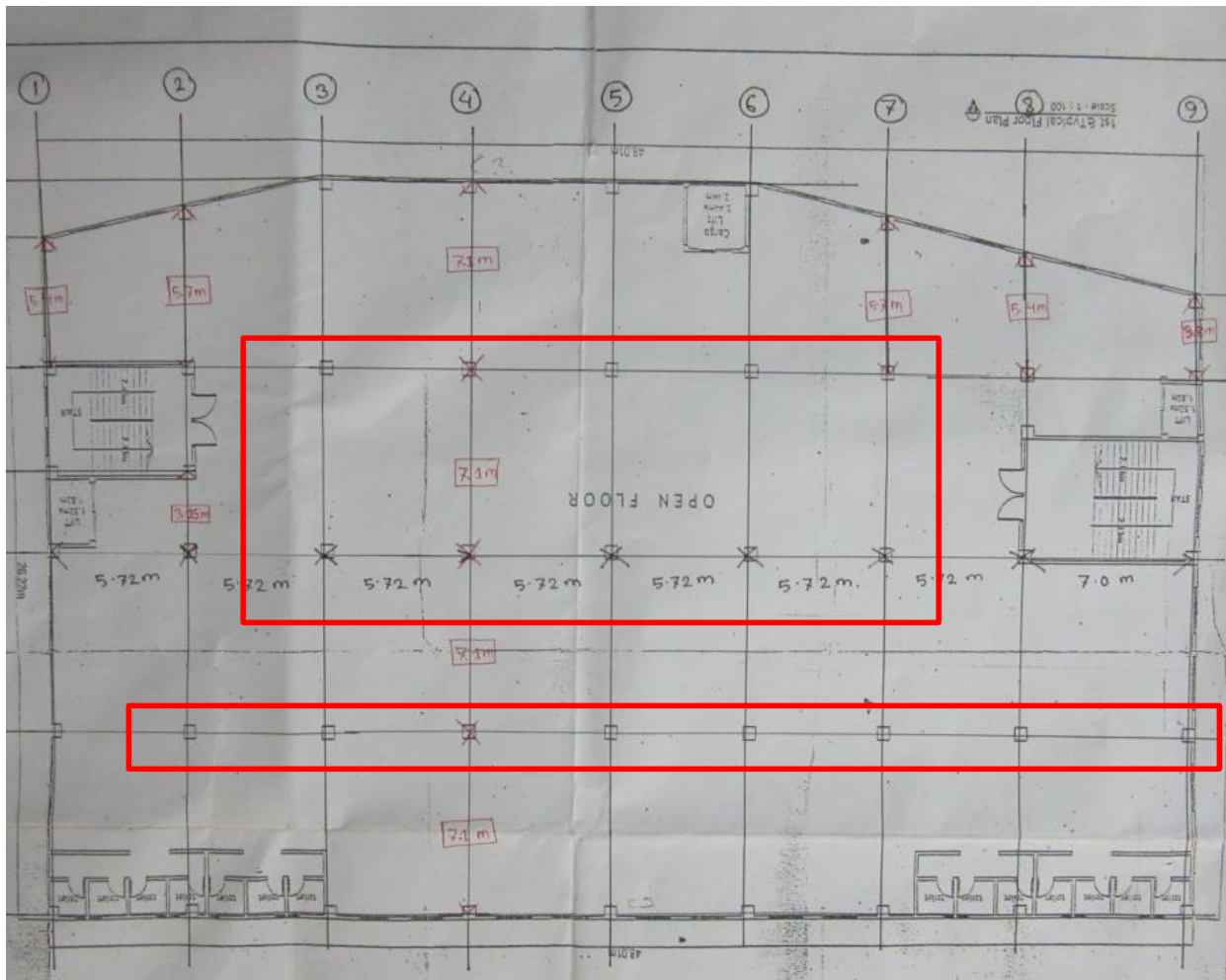
23.9666710 N, 90.382200 E

4<sup>th</sup> November, 2015



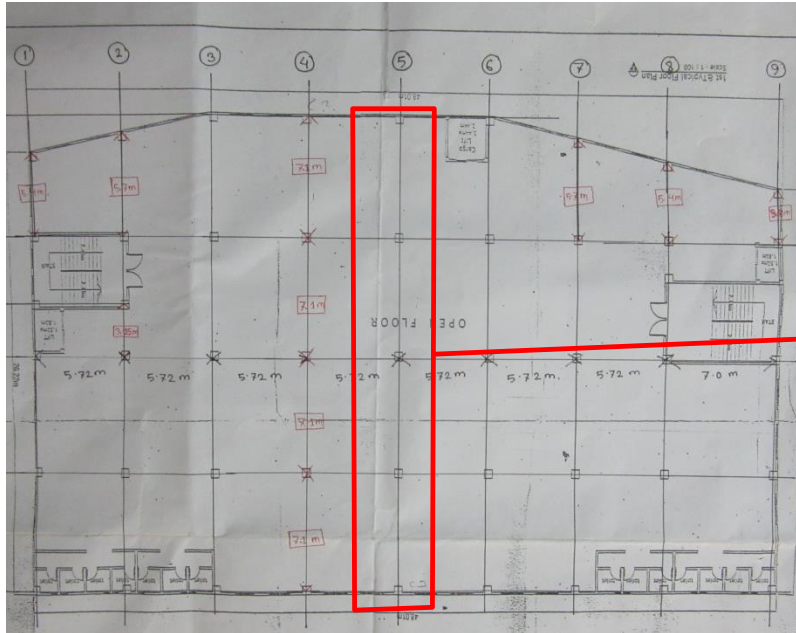
# Observations

# Stress Level at Columns

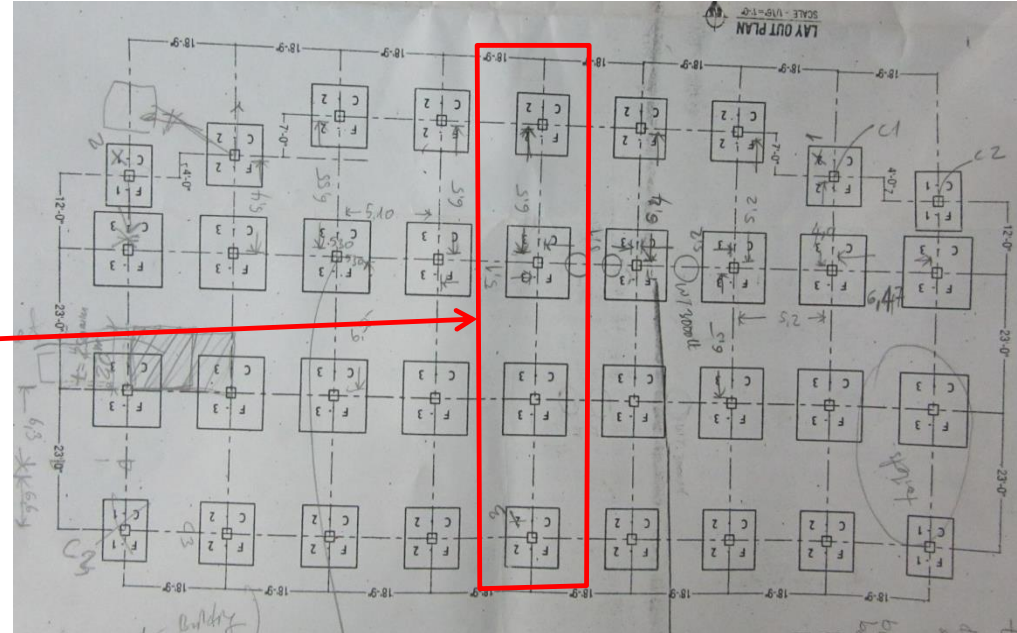


Marked columns are found to have high stresses considering the full build-out stage of the construction (8-storey building).

# **Discrepancies between Observations and Drawings**

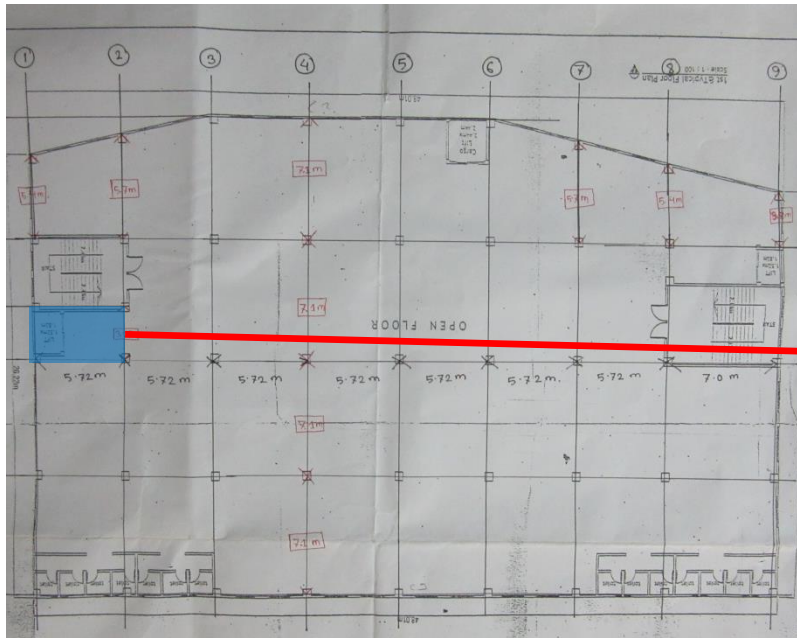


Architectural Permit Drawing



Structural Drawing

Structural drawing shows 4 columns in north–south direction instead of 5 columns which is observed at site and as shown on the architectural drawing.



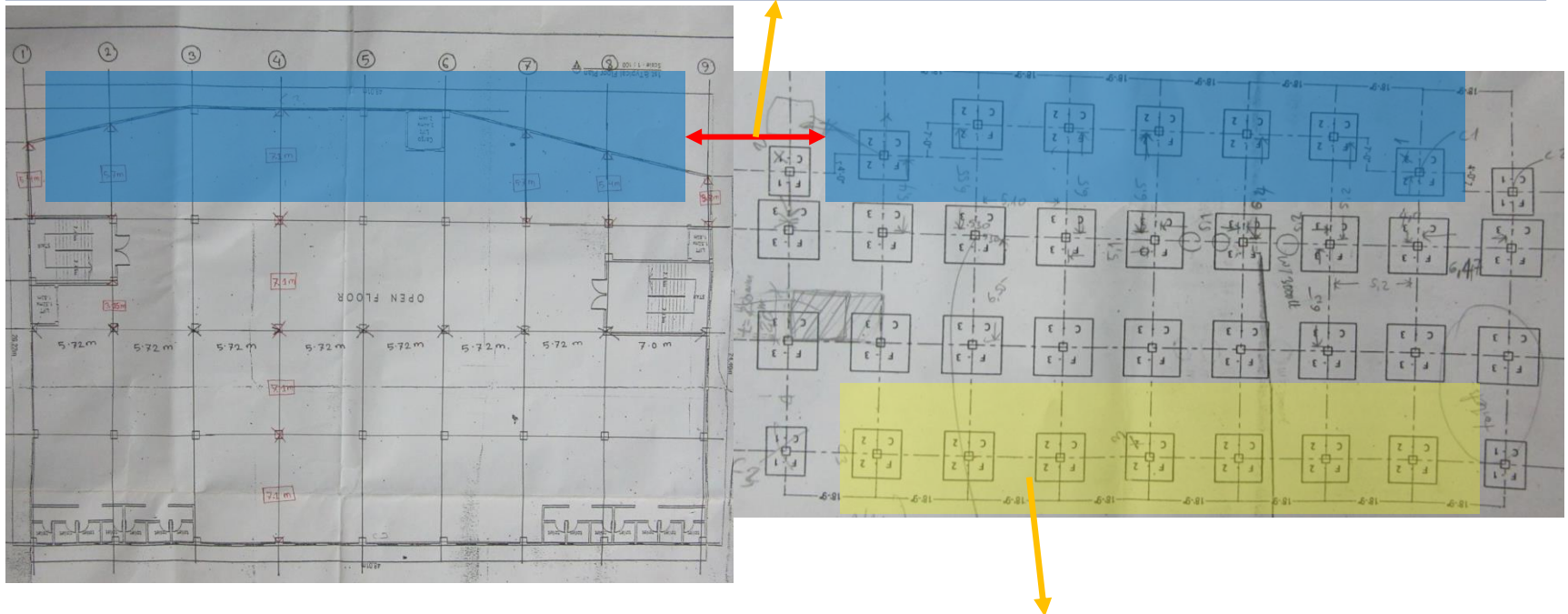
Provided Structural Drawing



There is a toilet area at the west side of the 1<sup>st</sup> floor which is not shown in permission drawing.

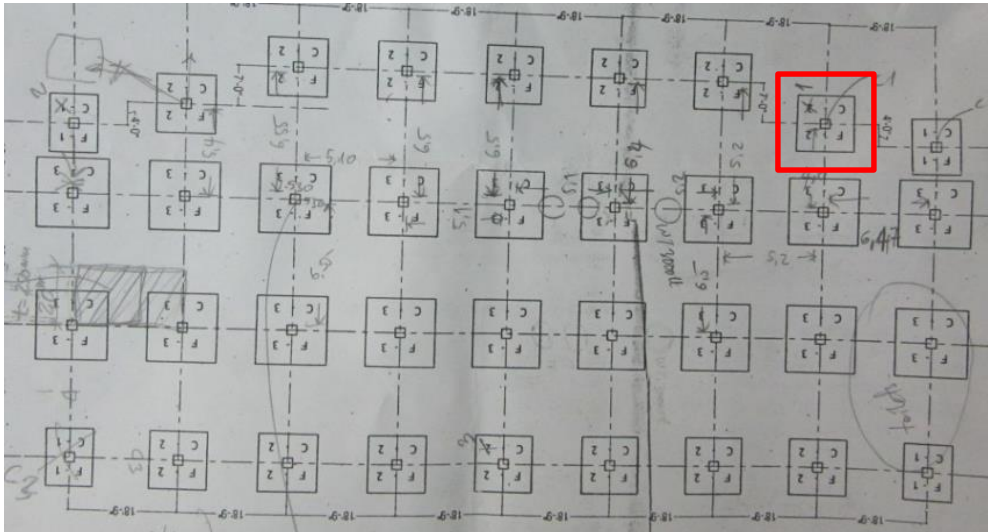


The dimensions of C2 Columns observed at roof level are smaller than what is shown on the structural drawings.



C2 type columns are only found at North edge where as the drawings shows the South edge columns also as C2.





Only one C1 type column was found in the whole building.



We found additional columns around staircases which were not present in any drawings.

# Hairline Cracks at First Floor Beams

**Observation**



Cracks in some beams in 1<sup>st</sup> floor

# **Non-Engineered Roof Structure Lean-to Side of the Building**

**Observation**



Non-Engineered roof structure attached to the building in an ad-hoc manner.

# Water Pond Adjacent to the Building

## Observation





**Water pond adjacent to the building.**



# **Lack of Safety Precautions at Roof Level**

**Observation**



**No edge protection is provided to the floors under construction  
(Falling Hazards)**

# Priority Actions

# Problems Observed

**ITEM 1:** Stress Level at Columns in full build-out condition

**ITEM 2:** Hairline Cracks at First Floor Beams

**ITEM 3:** Discrepancies between Design Drawings and Observations

**ITEM 4:** Lack of Safety Precautions at Roof Level

**ITEM 5:** Water Pond Next to Building

| Item No. | Observation                                            | Recommended Action Plan                                                                                                                                                                                                          | Recommended Timeline |
|----------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1        | Stress Level at Columns in full build-out              | Stress level at most of the columns found to be high in the case of an 8-storey building.                                                                                                                                        | 6-weeks              |
| 2        | Stress Level at Columns in full build-out              | Building Engineer to check design according to the actual state of column types and dimensions before proceeding with the construction of upper floors. Consideration should be given to reducing the number of proposed floors. | 6-weeks              |
| 3        | Stress Level at Columns in full build-out              | Make structural alterations if required as advised by Engineer.                                                                                                                                                                  | 6-months             |
| 4        | Hairline Cracks at First Floor Beams                   | Hairline cracks observed at several beams in plaster which might be due to large span and small size beams.                                                                                                                      | 6-weeks              |
| 5        | Hairline Cracks at First Floor Beams                   | Building Engineer to check the capacity of the existing beams.                                                                                                                                                                   | 6-weeks              |
| 6        | Hairline Cracks at First Floor Beams                   | Make structural alterations if required as advised by Engineer.                                                                                                                                                                  | 6-months             |
| 7        | Discrepancies between Design Drawings and Observations | Building Engineer to update the structural design drawings to reflect the as-built structure.                                                                                                                                    | 6-weeks              |
| 8        | Discrepancies between Design Drawings and Observations | Make structural alterations if required as advised by Engineer.                                                                                                                                                                  | 6-months             |

| Item No. | Observation                              | Recommended Action Plan                                                                                                                                                                   | Recommended Timeline |
|----------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 9        | Lack of Safety Precautions at Roof Level | Constuction works are on-going and no edge protection is provided around the building which could cause a threat to human life. Necessary safety precautions should be taken immediately. | Immediate - Now      |
| 10       | Water Pond Next to Building              | Building Engineer to assess the flood risk from the nearby water pond, including consideration of impacts on the foundations.                                                             | 6-weeks              |
| 11       | Water Pond Next to Building              | Implement civil works as required by the Building Engineer.                                                                                                                               | 6-months             |