

Global Specialised Garments Ltd Unit 02

Savar Sweater Ltd

Orchid Sweater Ltd

Global Accessories Ltd

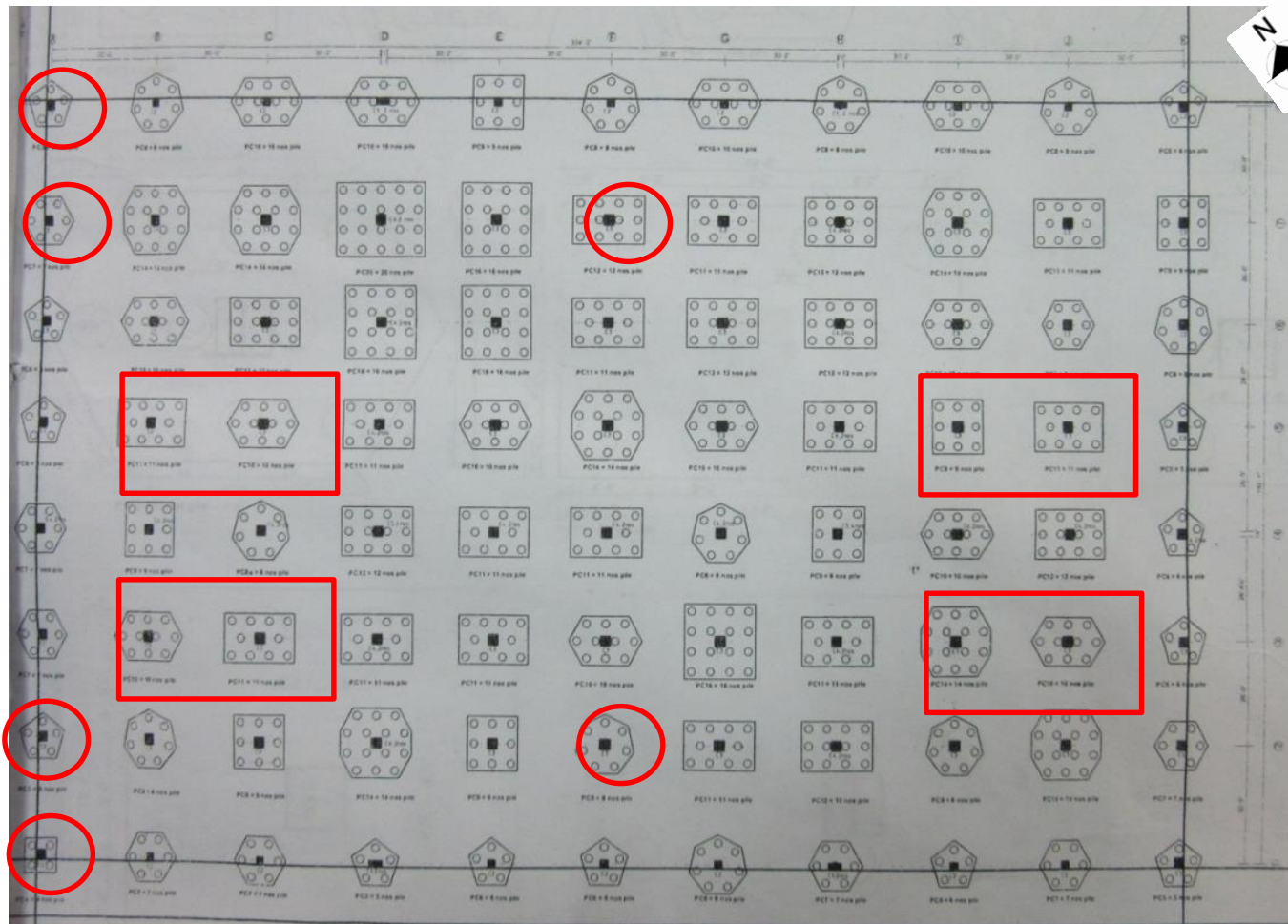
12-13P Kalurghat Heavy Industrial Area, Chittagong
(22.383726N, 91.868526E)

28th November 2015



Observations

Apparent high stresses in some columns



Apparently high stress column in the event that the building were to be built up to 8 storey as per building permission.

Observation: Apparent high stresses for some columns

Uncontrolled building material loading on the roof



Water stagnation and heavy loads from construction materials and rubbles observed on the roof (6th floor)

Observation: Water stagnation & uncontrolled Construction materials and rubble

Non-structural observation - Absence of safety barrier at the roof perimeter



No parapet wall or safety barrier observed at roof level (5th floor slab)

Observation: Lack of parapet wall or safety rails

Lack of stability in façade wall brickwork features



Façade wall with brickwork fins unrestrained over 3.67m floor-to-ceiling height force

Observation: Lateral instability of elements on façade wall

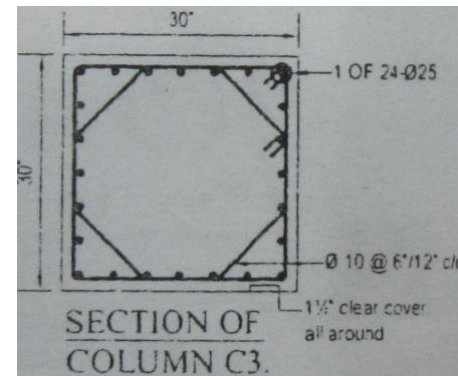
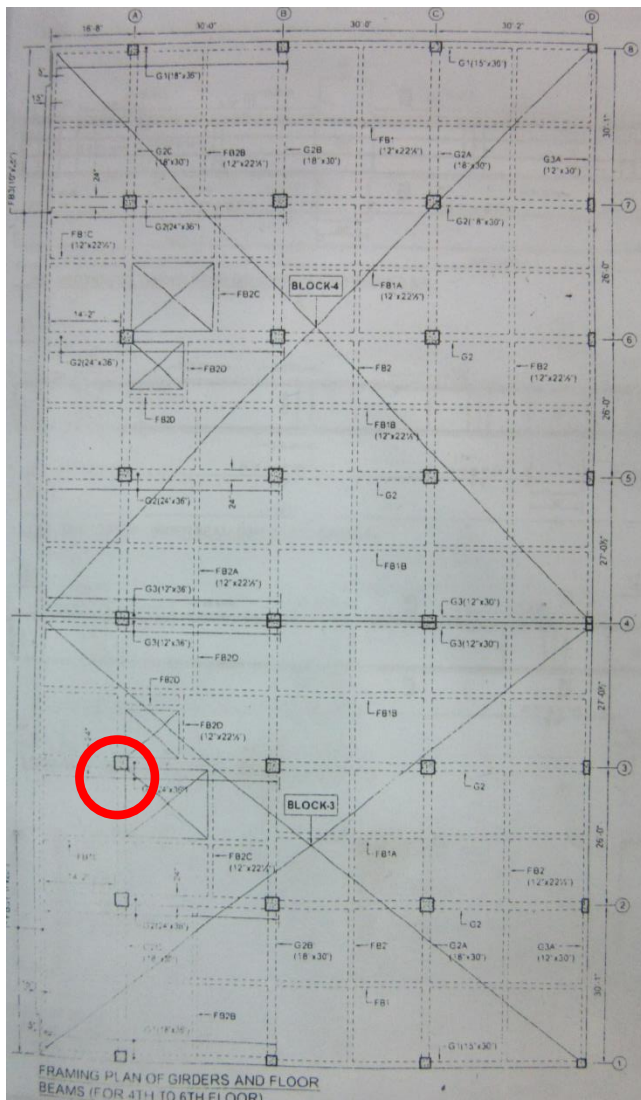
Loading control signage in Storage areas do not correspond to stated design load



Signage at the entrance to a number of Storage areas indicated a maximum allowable storage load of 80psf for the area. Structural drawings indicate that all areas of all floors designed for 60 psf.

Loading control signage in Storage areas do not correspond to stated design load

Discrepancies in the column reinforcement



For the columns on gridline A supporting cantilevera at blocks 3 and 4, drawing shows 24nos 25mm diam bars, instead 16nos 32mm diam bars observed.

Observation: Discrepancies in the drawing

Problems Observed

- ITEM 1:** Apparent high stresses in some columns
- ITEM 2:** Uncontrolled building material loading on the roof
- ITEM 3:** Lack of stability in façade wall brickwork features
- ITEM 4:** Loading control signage in Storage areas do not correspond to stated design load
- ITEM 5:** Discrepancies in the column reinforcement

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Apparent high stresses in some columns	Building Engineer to verify actual concrete strength in columns with documented proof	6-weeks
2	Apparent high stresses in some columns	Building Engineer to check that adequacy of concrete to resist the design stresses in the columns	6-weeks
3	Apparent high stresses in some columns	In the event that actual concrete strength is inadequate, Building Engineer to advise on measures to reduce stresses in the columns to achieve an adequate FoS	6-months
4	Uncontrolled building material loading on the roof	Building Engineer to assess building material loading on the Roof slab and advise on controls to limit loading to below slab capacity	6-weeks
5	Uncontrolled building material loading on the roof	Monitor loading on top slab during construction of additional floors	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
6	Lack of stability in façade wall brickwork features	Building Engineer to verify the stability of the brickwork 'fin' feature of the façade.	6-weeks
7	Lack of stability in façade wall brickwork features	Provide adequate restraint to ensure stability of brick façade features	6-months
8	Loading control signage in Storage areas do not correspond to stated design load	Building Engineer to assess loading in storage areas and the capacity of the floor structure to accommodate that loading	6-weeks
9	Loading control signage in Storage areas do not correspond to stated design load	Provide Load Plan indicating the maximum storage load that can be accommodated by the slab structures	6-months
10	Loading control signage in Storage areas do not correspond to stated design load	Post notices at all Storage areas indicating maximum storage loading for each area	6-months
11	Discrepancies between the column reinforcement	Update reinforcement drawings to show the correct number and diameter of reinforcement bars used in columns	6-months