

Stitchtone Apparels Ltd. (9884)

18/19, Strand Road, Champa Tower

(+22.324413N, 91.822960E)

20.MAY.2014



Identified Priority 1 Concerns

1st Priority 1 Concern



5th floor roof slab

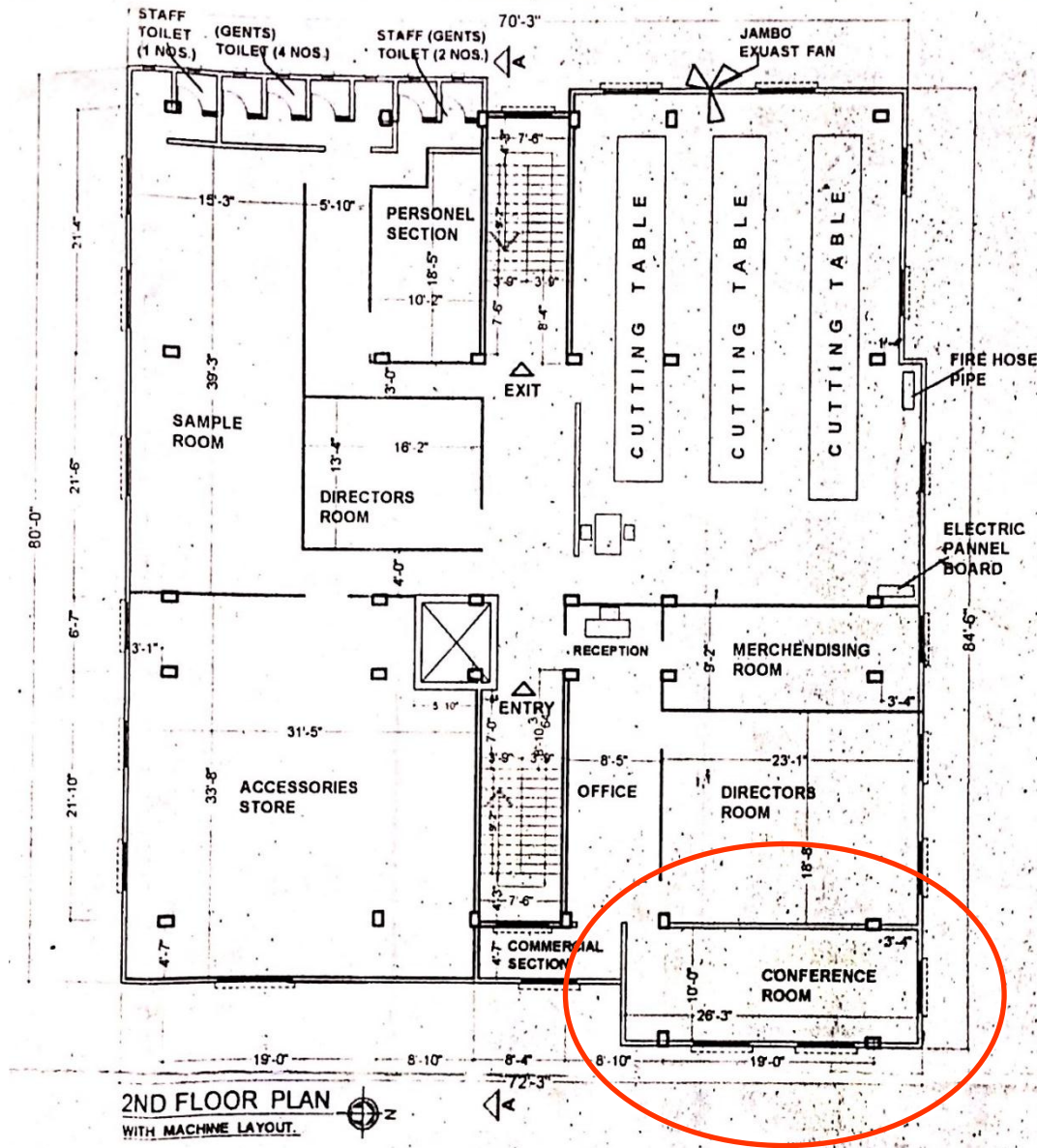


canteen & steel roof

The columns are overstressed due to additional live loading and steel roof on roof slab (5th floor).

Identified Priority 2 Concerns

1st Priority 2 Concern



Structural drawings do not match as built conditions and are incomplete:

- extra bay (extension) on East side not shown
- grid spacing not accurate
- Cantilevered slabs not shown
- steel roof at the 5th floor

2nd Priority 2 Concern



Steel roof on roof slab



Steel canopy

Poor steel detailing, especially of deck to purlins and of structure to columns, was observed for steel roof on 5th floor slab and canopy at front entrance.

Identified Priority 3 Concerns (none)

Overall Stability System



The building did not feature any core or shear walls. Stability was achieved through sway action between beams and columns and masonry infill walls.

We require that these items be investigated in a Detail Engineering Assessment

Water Ingress at Roof Level



No waterproofing membrane was visible on the roof of the building. This means that any cracks in the surface finishes on the roof will allow water to seep into the concrete slab beneath the finishes, and cause corrosion of the reinforcing steel.

Priority Actions

Problems Observed Summary

- ITEM 1: (Priority 1) The columns are overstressed due to additional live loading and steel roof on roof slab (5th floor).**
- ITEM 2: (Priority 2) Structural drawings do not match as built conditions and are incomplete.**
- ITEM 3: (Priority 2) Poor steel detailing for steel roof on 5th floor slab and canopy at front entrance.**

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	The columns are overstressed due to additional live loading and steel roof on roof slab (5th floor).	Do not increase the loading and follow posted loading plans. A Detail Engineering Assessment of Factory to be commenced, see attached Scope.	immediate – now
2	The columns are overstressed due to additional live loading and steel roof on roof slab (5th floor).	Complete the Detailed Engineering Assessment for the load bearing capacity of concrete columns. Verify concrete strength by 100mm dia. Cores – see DEA scope.	6-weeks
3	The columns are overstressed due to additional live loading and steel roof on roof slab (5th floor).	Implement recommendations from DEA.	6-months
4	Structural drawings do not match as built conditions and are incomplete.	Structural Engineer responsible for design to revise drawings to match existing condition. Detailed Engineering Assessment is required for extension, cantilevered slab, and steel roof.	6-weeks
5	Structural drawings do not match as built conditions and are incomplete.	Implement recommendations from DEA	6-months
6	Poor steel detailing for steel roof on 5th floor slab and canopy at front entrance.	Detailed Engineering Assessment is required for steel detailing of roof and canopy.	6-weeks
7	Poor steel detailing for steel roof on 5th floor slab and canopy at front entrance.	Implement recommendations from DEA	6-months