

Yester Jeans Ltd.

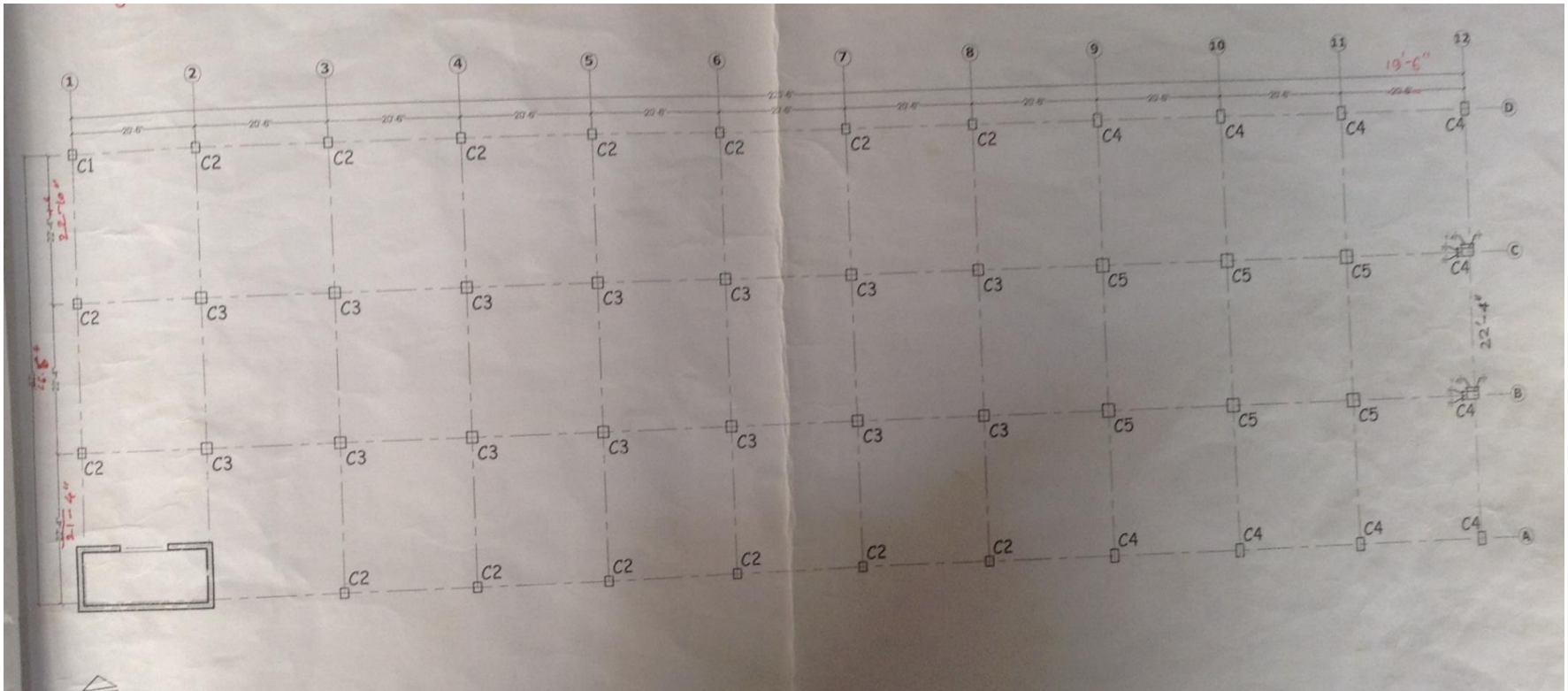
Plot # 111-114, Adamjee EPZ, Siddhirgonj, Narayangonj.
(23.674005 N, 90.529693 E)

28 February 2015



Observations

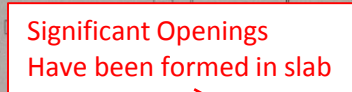
Apparently high stress levels in columns



Cursory calculations indicate high column working stress levels.

Observations

Mezzanine slab appears to have deflected and may be stressed in excess of normal design limits.



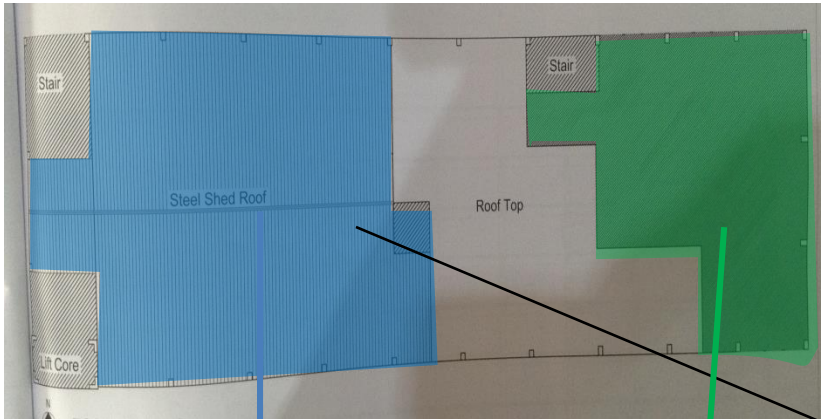
The diagram illustrates a mezzanine floor structure. A red box labeled "Opening" is positioned above a purple box labeled "Deflection slab area". A blue box labeled "Mezzanine floor" is located to the right of the deflection slab area. A blue line connects the bottom of the deflection slab area to the bottom of the mezzanine floor box.



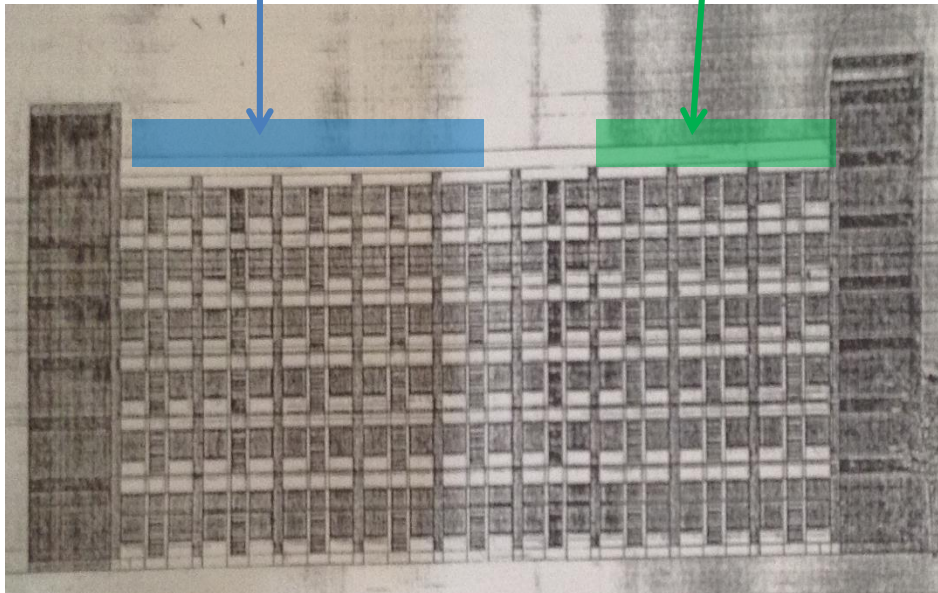
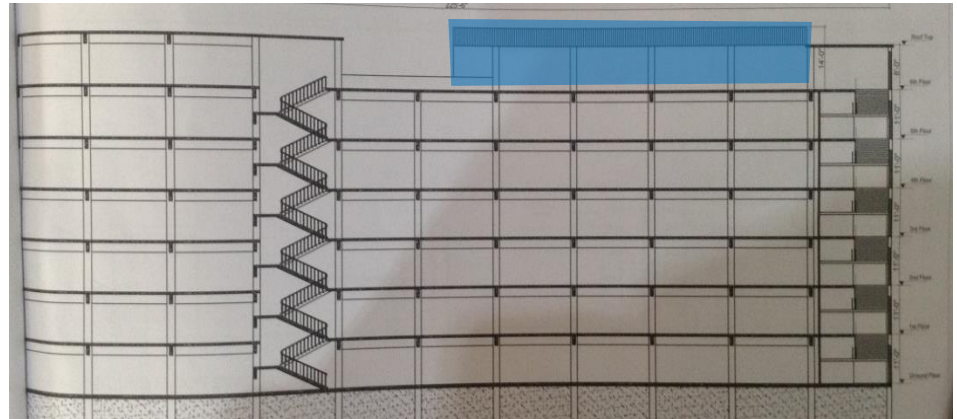
Observations

Discrepancies between Permit drawings and the as-constructed arrangement of the factory

Observations



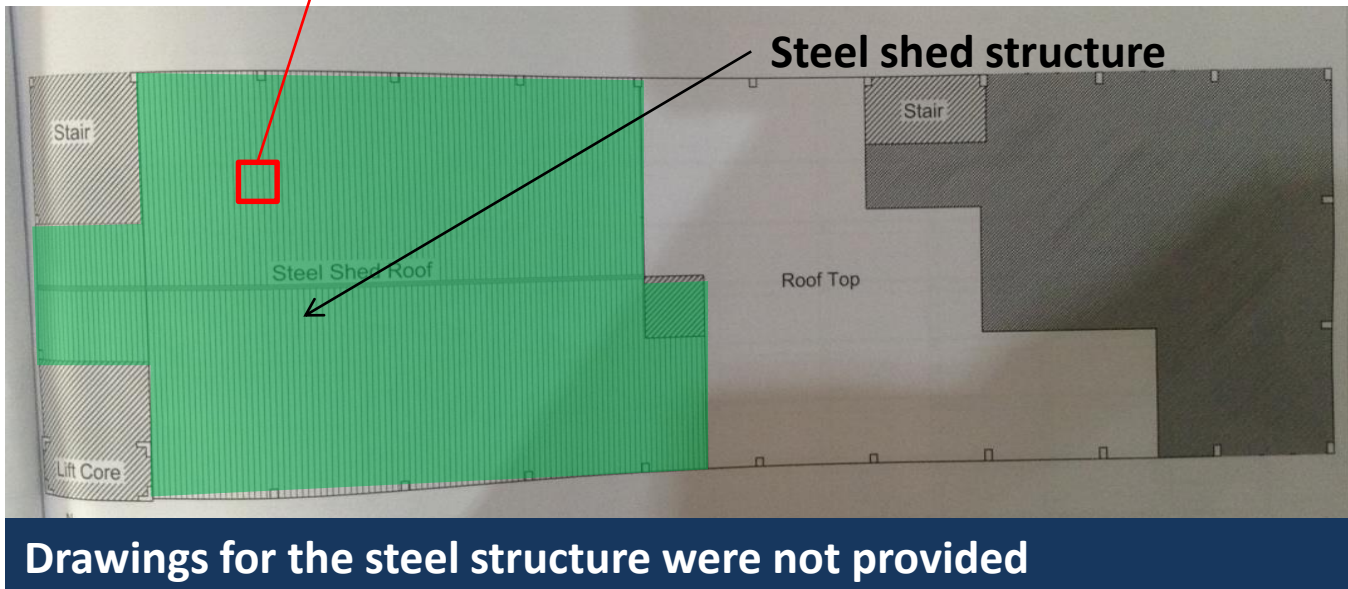
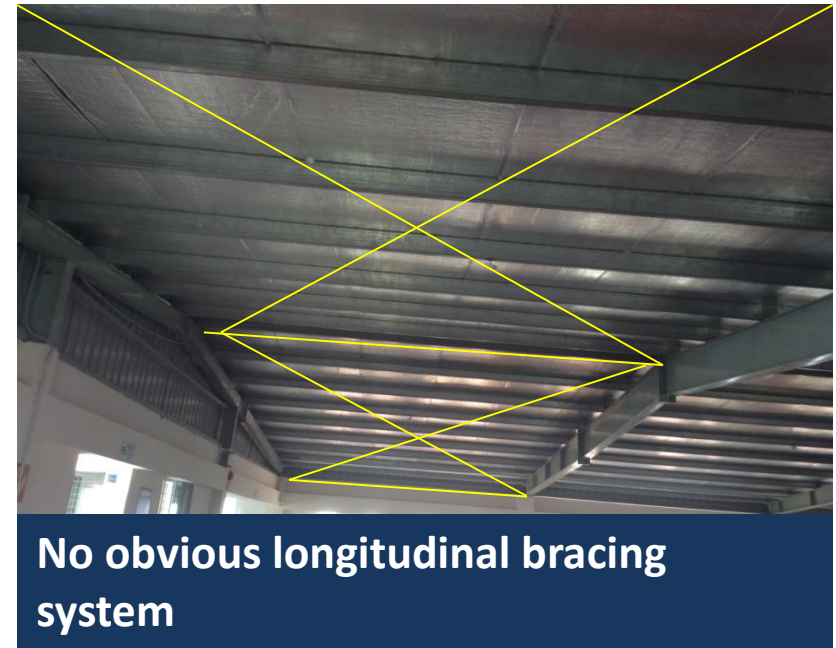
Steel shed structure as build



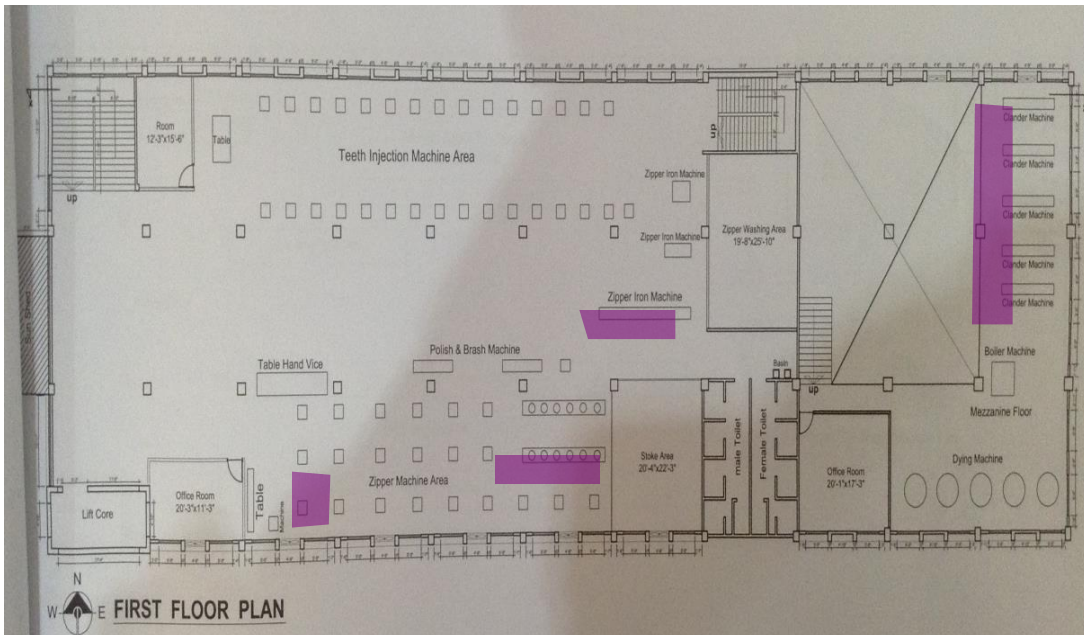
Permit drawing - elevation



Steel structure not on permit drawing



Heavily loaded areas



1st floor- machine loads
Technical information on the machines was not provided



Priority Actions

Problems Observed

1. Apparently high stress levels in columns
2. Mezzanine slab appears to have deflected and may be stressed in excess of normal design limits.
3. Discrepancies between Permit drawings and the as-constructed arrangement of the factory
4. Heavily loaded areas

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Apparently high stress levels in columns	Building Engineer to review design, loads and column stresses.	6-weeks
2	Apparently high stress levels in columns	Verify in-situ concrete strength either by taking 100mm dia. cores from 4 columns or by using existing cylinder strength data.	6-weeks
3	Apparently high stress levels in columns	Produce a loading plan and actively manage the floor loading for all floor plates within the Building giving consideration to floor capacity and column capacity	6-weeks
4	Apparently high stress levels in columns	Continue to implement the Loading Plan.	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
5	Mezzanine slab appears to have deflected and may be stressed in excess of normal design limits.	Factory Engineer to review design, loads and slab stresses in the mezzanine slab using a model based design check to loading set out in BNBC-2006 and including all actual openings in that zone.	6-weeks
6	Mezzanine slab appears to have deflected and may be stressed in excess of normal design limits.	Building Engineer to review further if any cracks are found to penetrate into building structure.	6-weeks
7	Mezzanine slab appears to have deflected and may be stressed in excess of normal design limits.	Do not load the zones of the mezzanine until the Engineering Assessment noted above has been completed.	6-weeks
8	Mezzanine slab appears to have deflected and may be stressed in excess of normal design limits.	Make structural alterations as advised by Engineer. Carry out repair remedial works as required.	6-months
9	Mezzanine slab appears to have deflected and may be stressed in excess of normal design limits.	Continue to monitor for cracking on an on-going basis.	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
10	Discrepancies between permit drawing, design drawings and as built structure	Building Engineer to commence an update of the drawings to reflect the as-built structure and loading levels at all floor levels, including as built floor finishes thickness.	6-weeks
11	Discrepancies between permit drawing, design drawings and as built structure	The steel roof design drawings to be attached to the As-built drawings and the structure of the roof to be confirmed as being adequate to withstand horizontal and vertical loadings as per code.	6-weeks
12	Heavily loaded areas	Building Engineer to confirm design loading of slabs and incorporate it into the loading plan for all floor plates within the Building.	6-weeks
13	Heavily loaded areas	Produce a loading plan and actively manage the floor loading for all floor plates within the Building giving consideration to floor capacity and column capacity.	6-weeks
14	Heavily loaded areas	Continue to implement the load management plan	6-months