Soorty Textiles (BD) Ltd

Plot # 220-227, Comilla EPZ, Old Airport Area, Comilla 3500

(23.444567, 91.180792)

17 March 2015

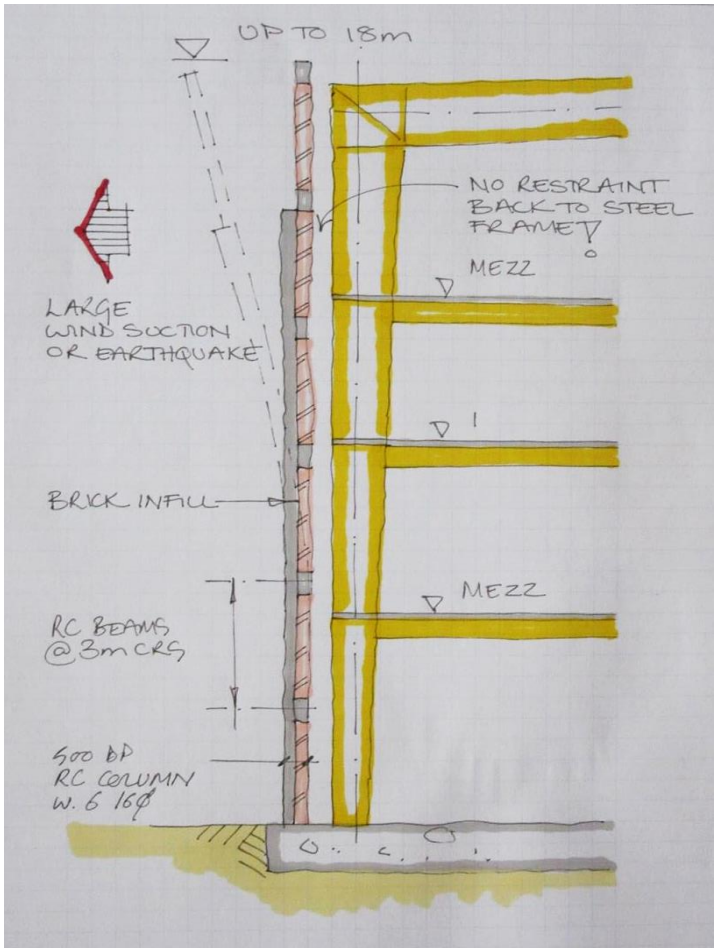
ACCORD on Fire and Building Safety in Bangladesh

ARUP

Observations

Façade wall appears to require additional restraint

Observations



The façade wall appears to be unrestrained, i.e. it is an 18 m high free standing wall. Without restraint the wall may collapse in strong wind or in an earthquake. 1. Concrete/masonry wall 2. Gap with polystyrene void former between steel and concrete column 3&4. Cracks between steel and concrete column after plastering

Observations

ACCORD on Fire and Building Safety in Bangladesh ARUP

Check stability of portal frames

Observations

No apparent connection between edge beam and portal frame?

Loadpath from brace to lateral restraint of portal frame appears complex.

Lateral restraint required? Effective length > than 9m

No apparent eaves strut or lateral torsional restraint to compression flange of columns. The connection between the braced wall bays and the portal frame appears indirect. Check lateral stability of portal frames.

Observations

Problems Observed

Item 1 - Façade wall appears to require additional restraint

Item 2 - Check stability of portal frames

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Façade wall appears to require additional restraint	Structural Engineer to check lateral stability of façade wall for wind suction and earthquake loads.	**6-weeks**
2	Façade wall appears to require additional restraint	Implement any remedial measures recommended by the Structural Engineer and ensure that these are co-ordinated with the steel frame designer.	**6-months**
3	Check stability of portal frame compression flanges	Steel Frame Designer to review the lateral stability of portal frames paying particular attention to: 1 – effective length of columns 2 – connection loadpath between brace and portal frame	**6-weeks**
4	Check stability of portal frame compression flanges	Implement any remedial measures recommended by the Steel Frame Designer.	**6-months**