



Designtex Knitwear Ltd.

Beraiderchala, Sreepur, Gazipur, 1740, Dhaka

(24.193070N, 90.416069E)

16th September 2018



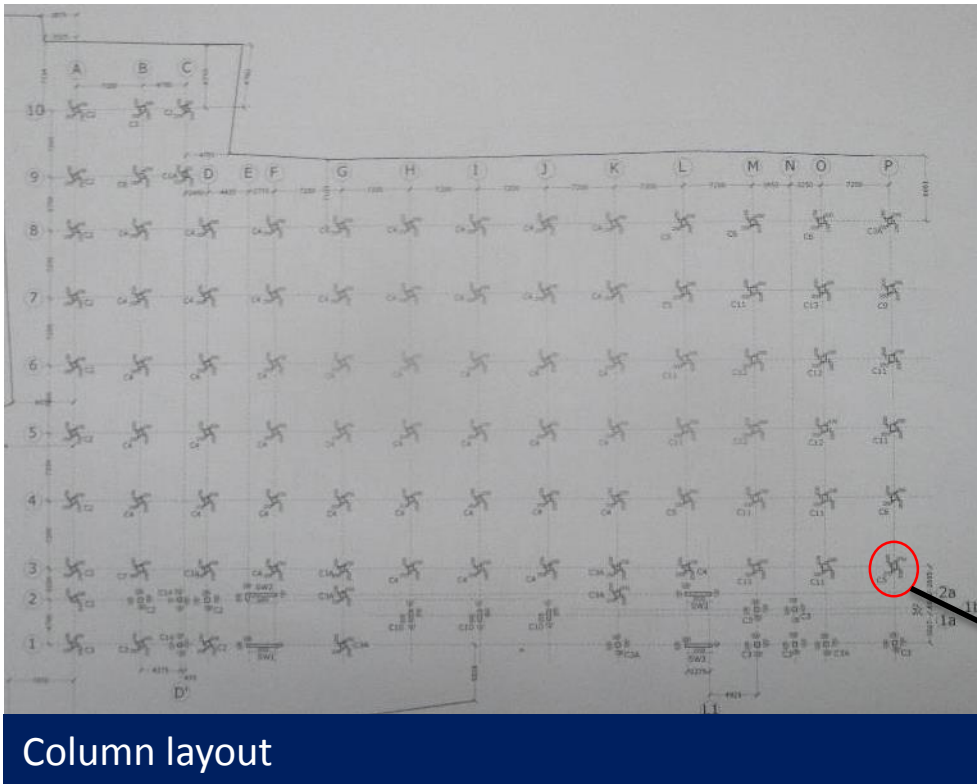


Observations

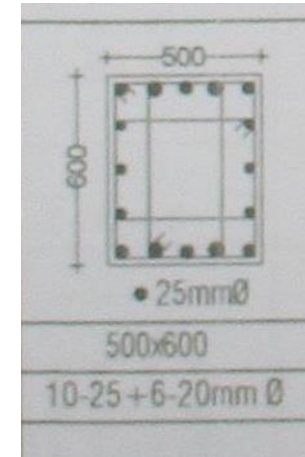


Discrepancies between drawings and on-site observation

Observation: Main Production Building



Column layout



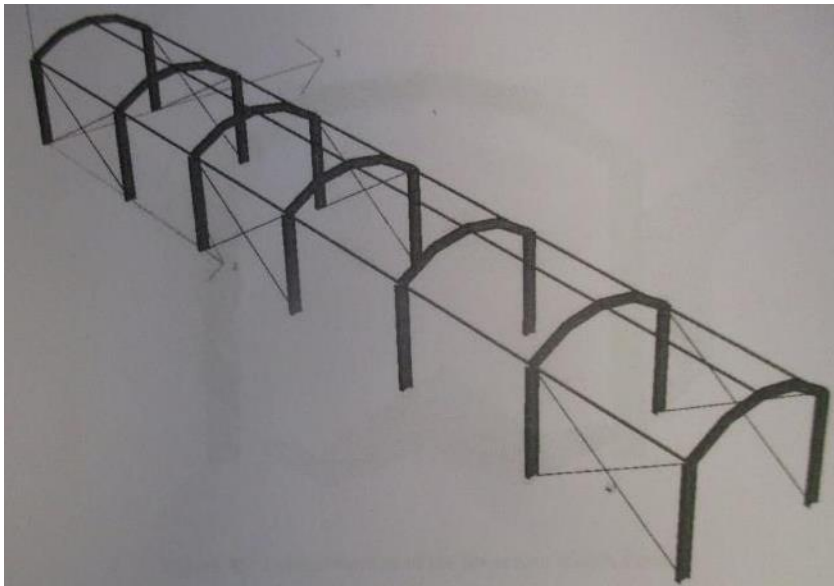
Column schedule of C-5 type column



C-5 column

The size of the marked column was found 500mm instead of 600mm as shown in the as-built drawing. The dimension of the column is required to be revised in column schedule and layout.

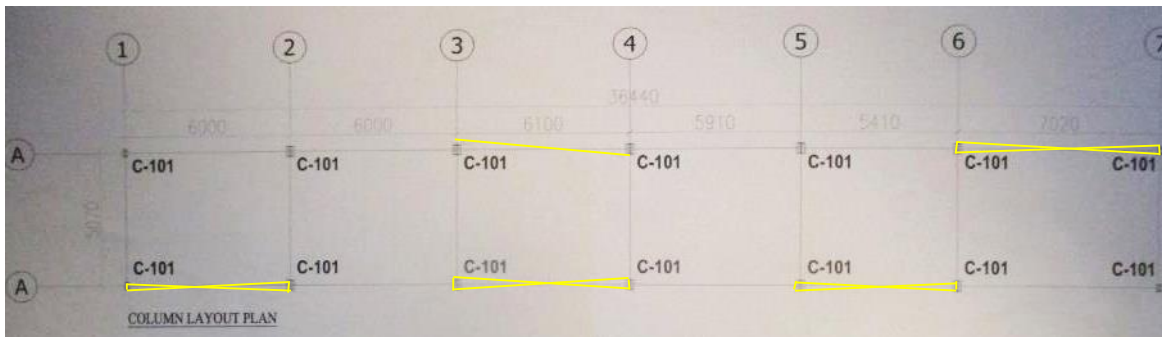
Observation: Main Production Building



Arrangement of Vertical cable bracings considered in the design report



On site location of vertical bracing



On site location of vertical bracing

The on-site location of vertical cable bracing did not match with design report. Moreover, no bracing layout was found in the structural drawing. Factory is required to review the design and submit to ACCORD for reviewing.

Observation: Main Production Building



Water ponding on roof

Observation: Main Production Building



Water ponding was observed on roof. Factory is required to install the proper drainage system.

Observation: Main Production Building



Implement floor load management program

Observation: Main Production Building



No load management programs were visible except posting load plan. Factory is required to implement load management program as per its floor loading capacity and Follow the load plans for all floors of the buildings and make sure that the workers understand the loading requirements.

Observation: Main Production Building

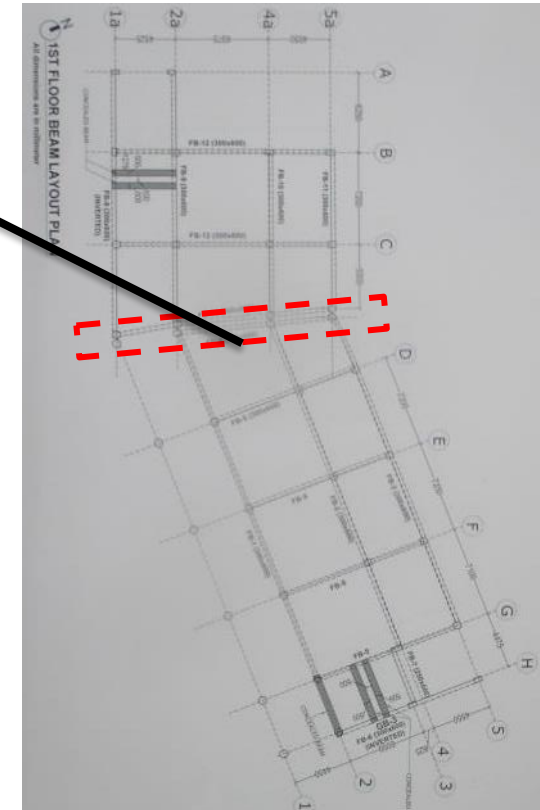


Expansion joints do not have gap/adequate clearance

Observation: Facility Building



Gap at expansion joint covered with mortar and tiles



Location of expansion joint in beam layout drawing

The expansion joints are covered with cement mortar with tiles on top. Clear gap is required to be provided throughout the expansion joint and the gap is to be filled with appropriate materials as per engineer's recommendation.

Observation: Facility Building



Implement floor load management program

Observation: Facility Building



No load management programs were visible except posting load plan. Factory is required to implement load management program as per its floor loading capacity and Follow the load plans for all floors of the buildings and make sure that the workers understand the loading requirements.

Observation: Facility Building



Water ponding on roof

Observation: Utility Building



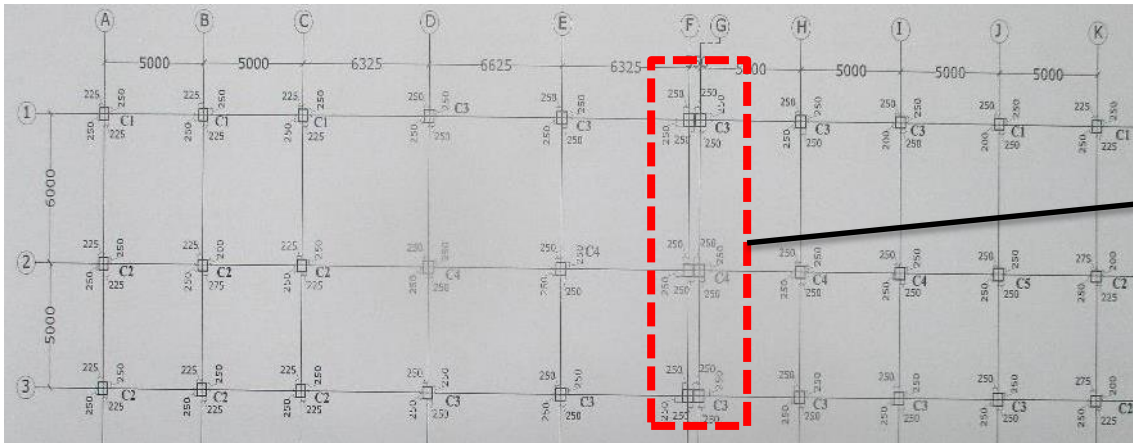
Water ponding was observed under cooling tower on roof. Factory is required to install the proper drainage system.

Observation: Utility Building



Expansion joints do not have gap/adequate clearance

Observation: Utility Building



Location of expansion joint in column layout drawing



Expansion joint covered with mortar

The expansion joints are covered with cement mortar with tiles on top. Clear gap is required to be provided throughout the expansion joint and the gap is to be filled with appropriate materials as per engineer's recommendation.

Observation: Utility Building



Lateral stability is required to be verified

Observation: Boiler Shed



Portal frame (No vertical bracing)



Bolted connection
between rafter and
column



Bolted connection
between pedestal
column and steel
column

During inspection, no vertical bracing or compression strut was observed. Factory is required to check lateral stability of boiler shed against lateral loads.

Observation: Boiler Shed



Corrosion observed at steel sections

Observation: Boiler Shed



Corrosion was observed at rafter



Corrosion was observed at joint of steel column and pedestal column

Corrosion was observed at various location on steel members. Factory is required to identify all the corroded locations and take proper remedial measures.

Observation: Boiler Shed



Problems Observed

Main Production Building

Item 1: Discrepancies between drawings and on-site observation

Item 2: Water ponding on roof

Item 3: Implement floor load management program

Facility Building

Item 4: Expansion joints do not have gap/adequate clearance

Item 5: Implement floor load management program

Utility Building

Item 6: Water ponding on roof

Item 7: Expansion joints do not have gap/adequate clearance

Boiler Shed

Item 8: Lateral stability is required to be verified

Item 9: Corrosion observed at steel sections



Priority Actions



Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	(Main Production Building) Discrepancies between drawings and on-site observation	Factory engineer is required to survey all the structural elements properly and produce correct as built drawings.	6-weeks
2	(Main Production Building) Discrepancies between drawings and on-site observation	Factory engineer is required to carry out the stability check of the roof top shed considering vertical and lateral loads.	6-weeks
3	(Main Production Building) Discrepancies between drawings and on-site observation	Carry out remedial action as per engineering assessment where required.	6-months
4	(Main Production Building) Water ponding on roof	Factory is required to implement proper drainage system and other remedial measures to prevent water ponding.	6-weeks
5	(Main Production Building) Implement floor load management program	Factory is required to implement load management program (signage, load restriction height marking) as per its floor load plan.	6-weeks
6	(Main Production Building) Implement floor load management program	Continue to implement load plan.	6-months



Item No.	Observation	Recommended Action Plan	Recommended Timeline
7	(Facility Building) Expansion joints do not have gap/adequate clearance	Clear gap is required to be provided throughout the expansion joint and the gap is to be filled with appropriate materials as per engineer's recommendation.	6-weeks
8	(Facility Building) Implement floor load management program	Factory is required to implement load management program (signage, load restriction height marking) as per its floor load plan.	6-weeks
9	(Utility Building) Water ponding on roof	Factory is required to provide proper drainage and other remedial measures to prevent water ponding.	6-weeks
10	(Utility Building) Expansion joints do not have gap/adequate clearance	Clear gap is required to be provided throughout the expansion joint and the gap is to be filled with appropriate materials as per engineer's recommendation.	6-weeks



Item No.	Observation	Recommended Action Plan	Recommended Timeline
12	(Boiler Shed) Lateral stability is required to be verified	Factory is required to provide lateral stability check against lateral loads.	6-weeks
13	(Boiler Shed) Lateral stability is required to be verified	Carry out remedial action as per engineering assessment where required.	6-months
14	(Boiler Shed) Corrosion observed at steel sections	Factory engineer to recommend proper remedial measures for protection of steel sections from corrosion.	6-weeks