Confidence Texwear Ltd.

Mahona, Bhobanipur, Shirirchala, Gazipur Sadar, Gazipur.

(24.168421, 90.419120)

8th February 2021

RSC RMG SUSTAINABILITY COUNCIL

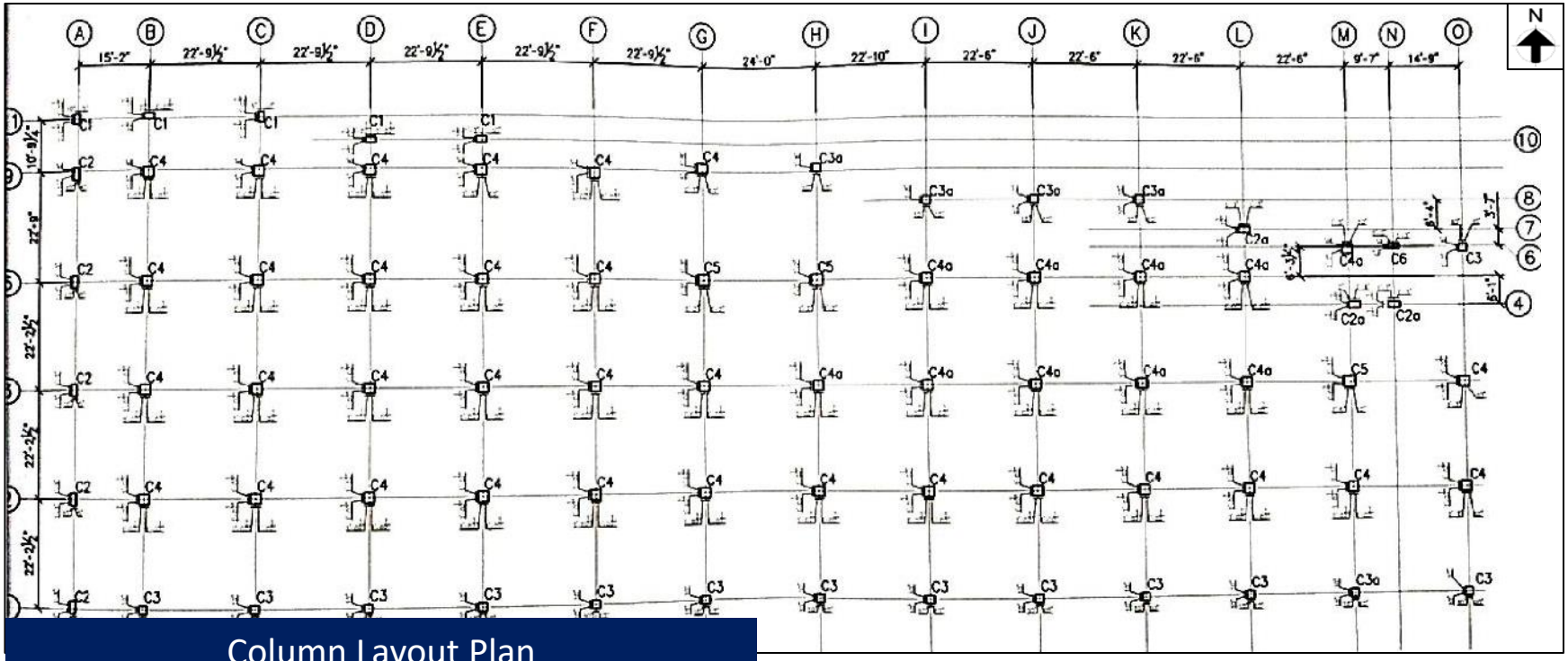
Buildings Information

1. Building- 1 (G+5)
2. Building- 2 (B+G)
3. Building-3 (Single Storied)

Observations

Columns are stressed above normal design limit

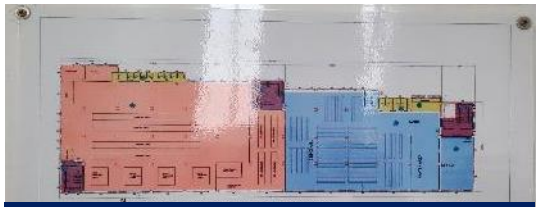
Observations: Building 1



Column Layout Plan

Water tank loading

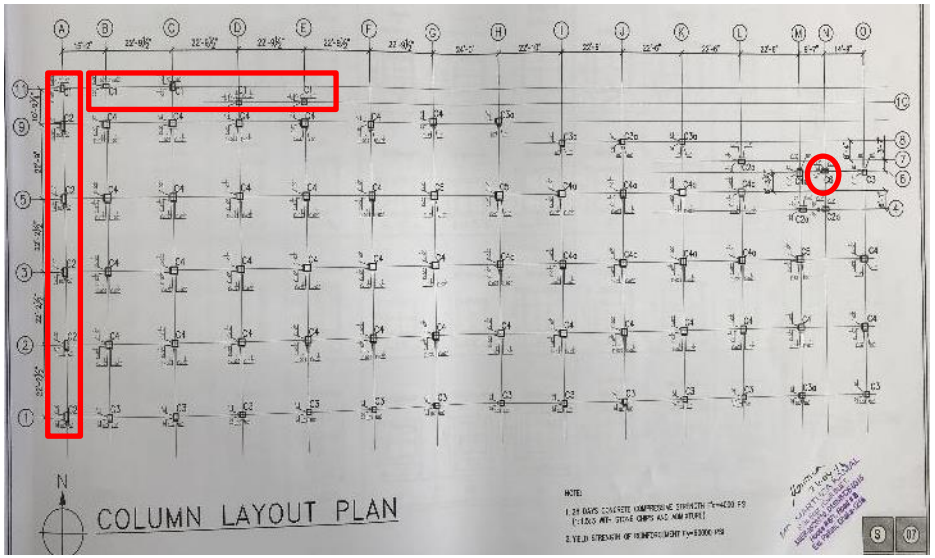
Floor loading



Ground and 5th floor considered 6 kPa, 1st to 4th floor 5 kPa & roof 1.5 kPa

Cursory calculation indicates that columns are stressed above normal design limit considering prepared live load plan and minimum concrete strength value from aggregate type. Building engineer is required to review design, load & column stress.

Observations: Building 1



Ground floor height is 5300 mm, least dimension of some columns are 300 mm (C7), 375 mm (C1,C2). Building engineer is required check the slenderness effect of the columns.

Observations: Building-1

Problems Observed

Building-1:

1: Columns are stressed above normal design limit.

Priority Actions

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Columns are stressed above normal design limit. (Building 1)	Building engineer to review design, loads and columns stresses.	6-weeks
02	Columns are stressed above normal design limit. (Building 1)	Verify in situ concrete stresses either by 100mm dia. cores or existing cylinder strength data or [100mm dia. cores from 4 columns].	6-weeks
03	Columns are stressed above normal design limit. (Building 1)	Building engineer is required to review the design considering slenderness effect on the columns.	6-Weeks
04	Columns are stressed above normal design limit. (Building 1)	Building Engineer to prepare design report as per BNBC (part 6; Article 1.9.1) by reviewing design, loads and capacity of structural members.	6-weeks
05	Columns are stressed above normal design limit. (Building 1)	Produce and actively manage a loading plan for all floor plates within the factory considering floor capacity and column capacity.	6-weeks
06	Columns are stressed above normal design limit. (Building 1)	Carry out any remedial works where necessary.	6-months