



Artistic Design Ltd.(Extension)

232-233 East Narashingapur, Ashulia, Savar, Dhaka, Bangladesh.

(23.936639N, 90.308614E)

18th August 2019



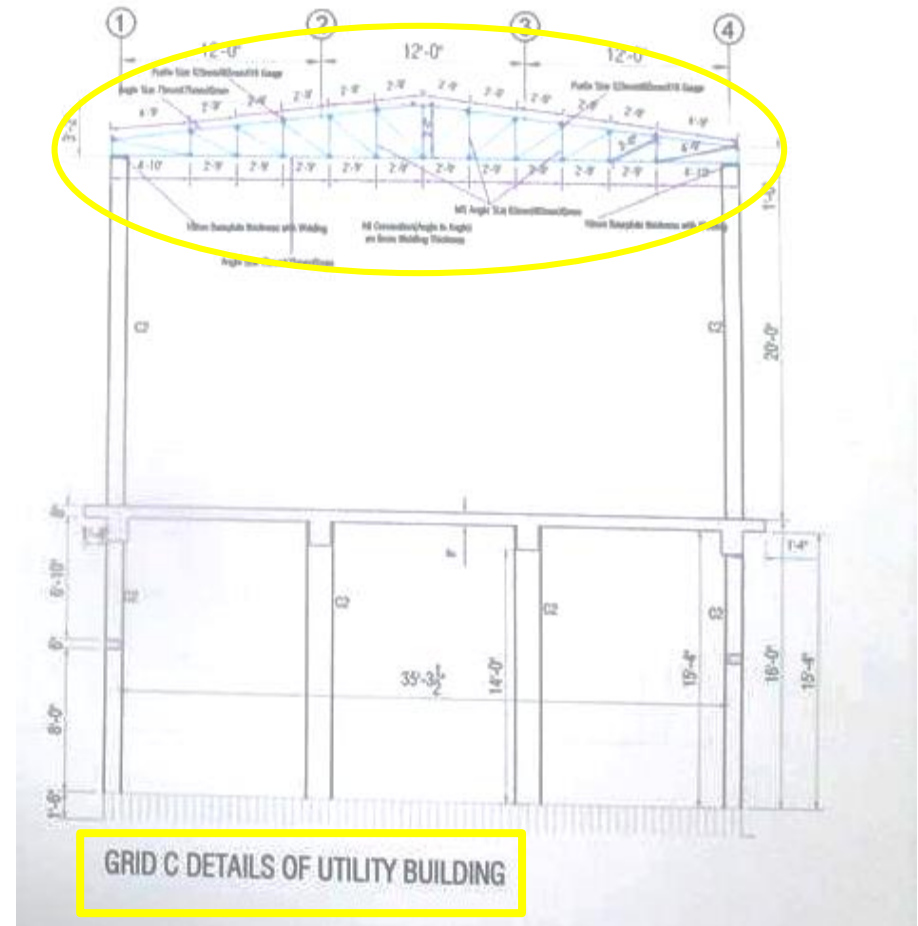


Observation



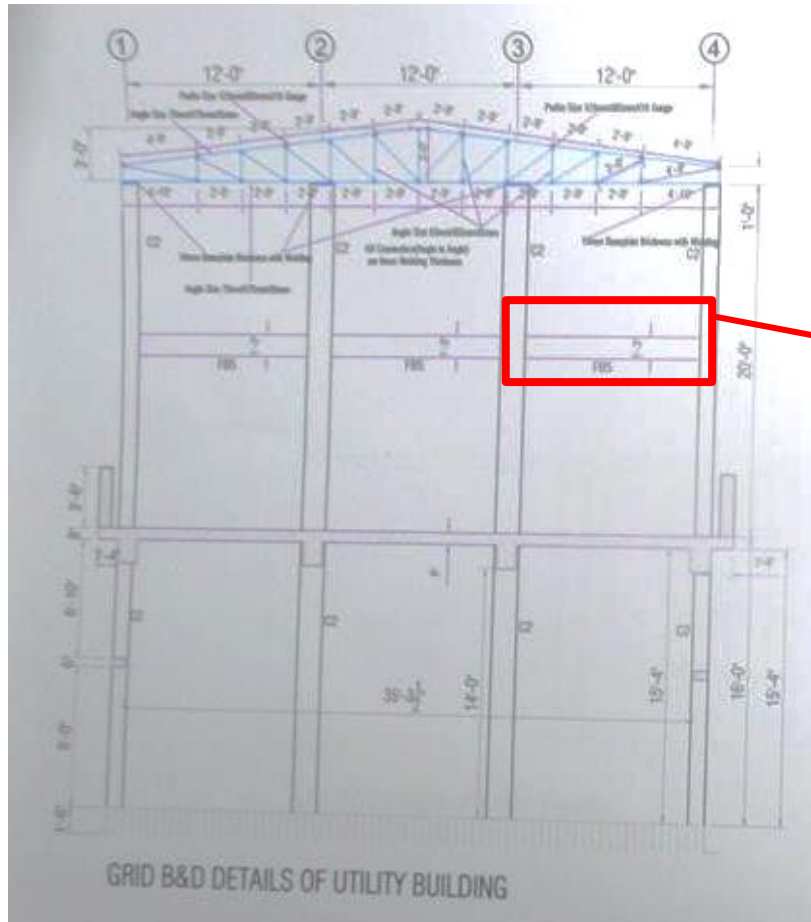
Discrepancies in between as built drawing and actual site condition

Observations: Utility Building



Truss shown along grid-C in drawing. But at on site channel section was found at that location.

Observations: Utility Building



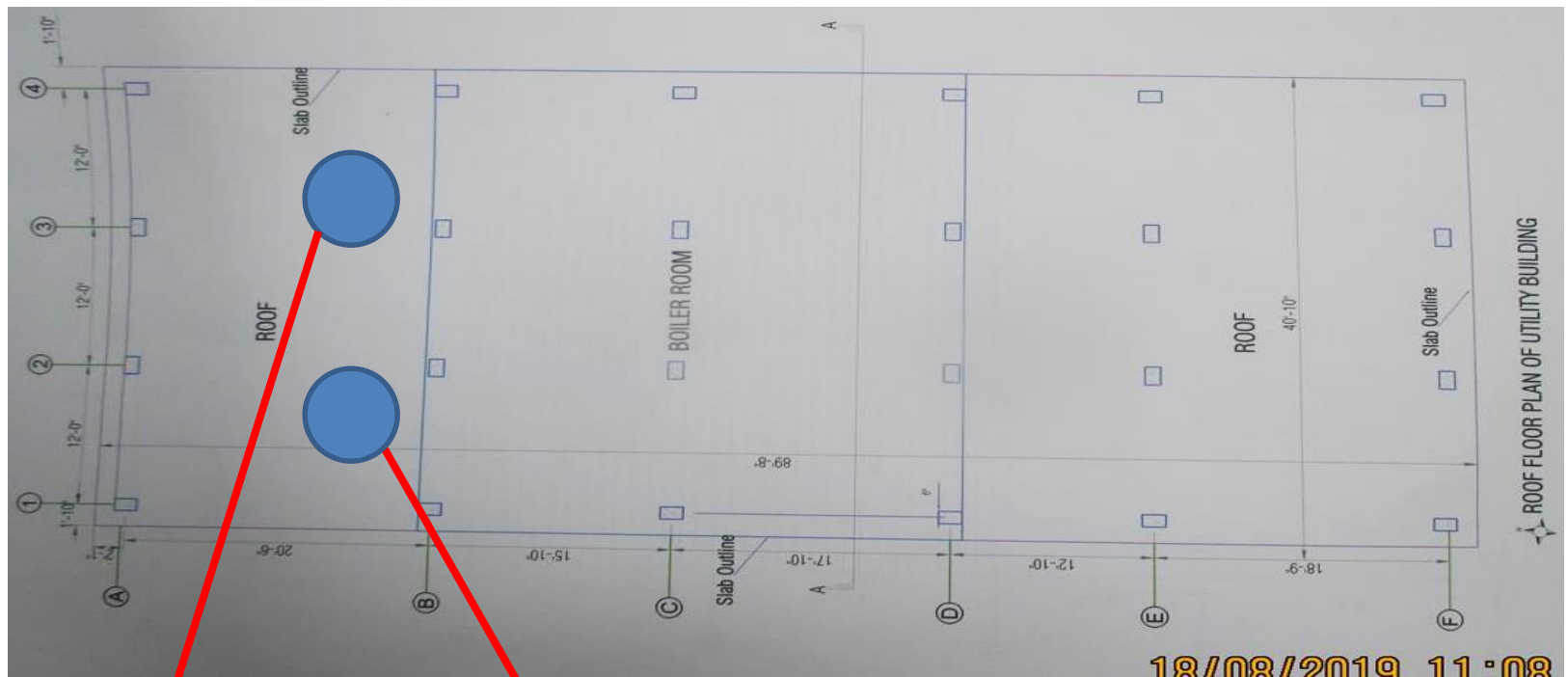
Sectional elevation



Beam position at site

Arrangement of tie beam was found mismatch with site condition at roof level. The marked beam was found elevated from the regular height as shown in drawing

Observations: Utility Building



Roof floor layout



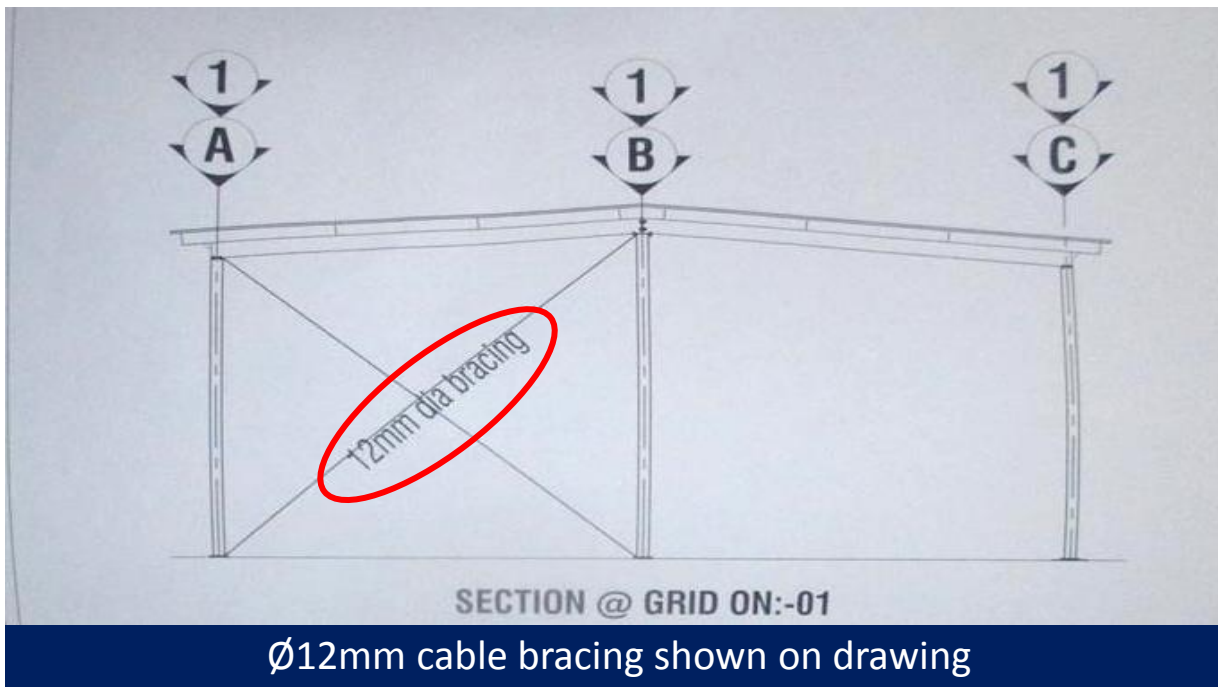
Undocumented cooler/chiller was found at roof top of utility building. The cooler/chiller has not been shown in as-built drawing.

Observations: Utility Building



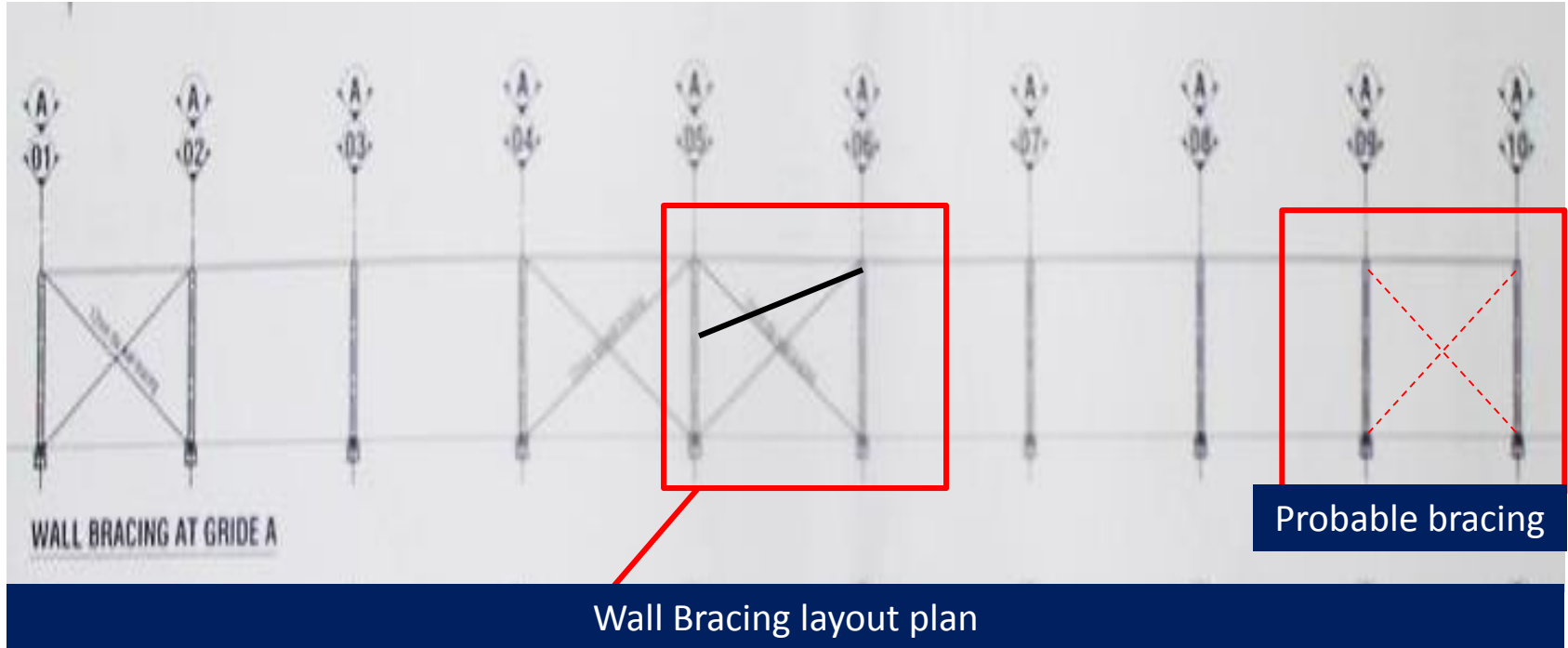
Discrepancies in between as built drawing and actual site condition

Observations: Dinning Shed



cable bracing was found Ø10mm instead of Ø12mm.

Observations: Dinning Shed



Installation of wall bracing in as-built drawing does not match with actual site condition. Due to door opening bracing arrangement has been changed. Also asymmetric bracing system observed. Factory engineer is required to survey the actual site condition and prepare as constructed as built drawing.

Observations: Dinning Shed



Loose cable bracing

Observations: Dinning Shed



Bracing was found loose on site.

Observations: Dinning Shed

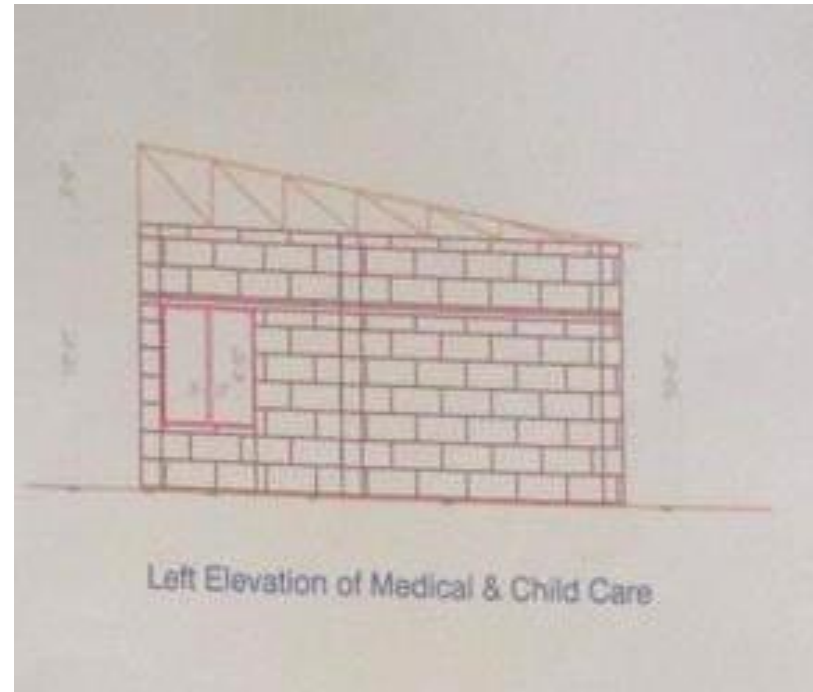


Lack of as-built documentation

Observations: Medical & Childcare



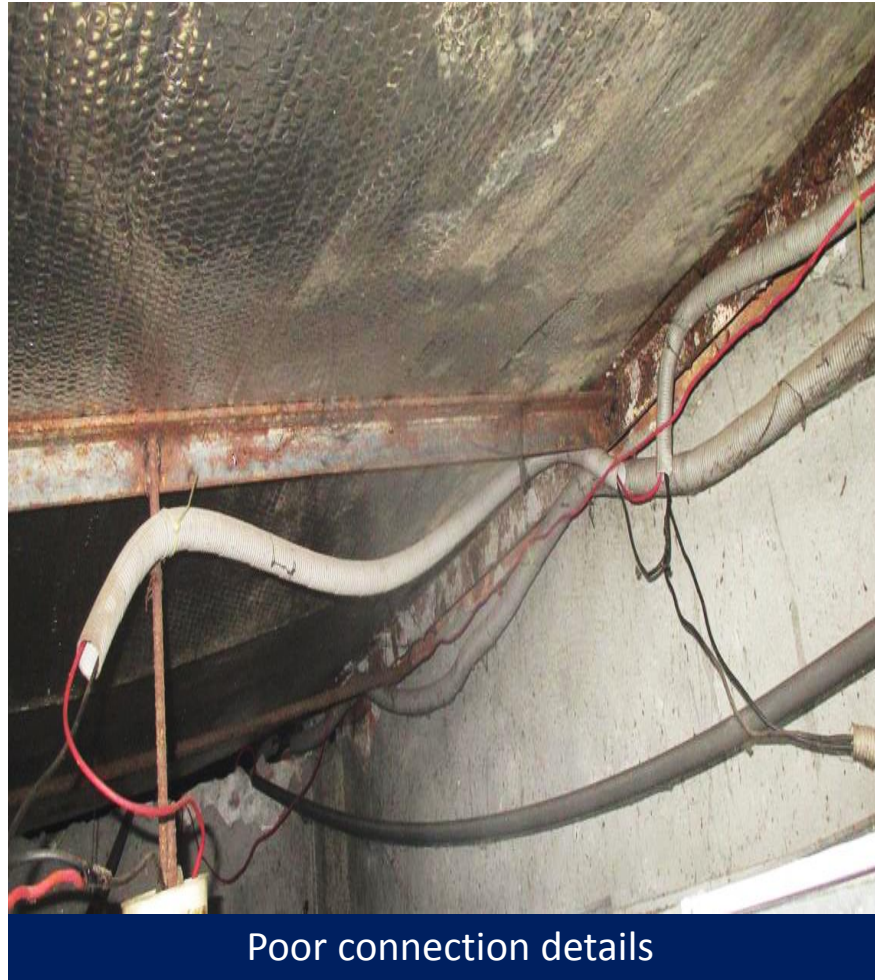
Non-engineered roof shed



Truss has been shown as-built drawing

Roof truss shown in as-built drawing, but onsite truss wasn't found. Non-engineered steel roof shed supported by masonry structure. Inadequate connection of shed with brick wall. No definite arrangement of angle members. Factory engineer is required to survey the site condition and prepare as-built drawing. Factory engineer is also required to check the adequacy of the roof shed against lateral loading.

Observations: Medical & Childcare



Poor connection details

Observations: Medical & Childcare



Priority Actions



Problems Observed

Utility Building

01: Discrepancies in between as built drawing and actual site condition

Dinning shed

02: Discrepancies in between as built drawing and actual site condition

03: Loose cable bracing

Medical & Childcare

04: Lack of as-built documentation



Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Discrepancies in between as-built drawing and actual site condition.(Utility Building)	Factory Engineer is required to survey the structure and develop as-built drawings which reflect the on-site condition.	6-weeks
2	Discrepancies in between as-built drawing and actual site condition.(Utility Building)	Install the truss as per as-built drawing or review the design of roof truss system as per site condition.	6-weeks
3	Discrepancies in between as-built drawing and actual site condition.(Dinning shed)	Factory Engineer is required to survey the structure and develop as-built drawings which reflect the on-site condition.	6-weeks
4	Discrepancies in between as-built drawing and actual site condition.(Dinning shed)	Building engineer is required to check the bracing system and deemed to upgrade the bracings.	6-weeks



Item No.	Observation	Recommended Action Plan	Recommended Timeline
5	Loose cable bracing(Dinning shed)	Factory is required to tighten the loose bracings.	6-weeks
6	Lack of as-built documentation(Medical & Childcare)	Factory Engineer to survey the structure and update the full set of architectural and structural “as-constructed” drawings.	6-weeks
7	Lack of as-built documentation(Medical & Childcare)	Building engineer is required to check the lateral stability system of the existing structure.	6-weeks
8	Lack of as-built documentation(Medical & Childcare)	Complete remedial works as per the recommendation of engineering assessment.	6-months