Dunning Thornton consultants

Ref: 8442 L02
23 September 2020

Huddart Parker Building Company Ltd
c/- Urban Perspectives
Attention: Alistair Aburn

Dear Alistair

Huddart Parker Sign Steelwork

In accordance with your instructions we have carried out structural analysis of the existing sign support steelwork situated on the roof of the Huddart Parker building facing Post Office Square in Wellington.

The analysis was based on site measurements of the existing steel frame and of its individual members and upon an assumed maximum sign size of 13m long and 4m high, with the base of the sign effectively at the top of the existing parapet.

Using the current New Zealand wind loading standard we calculated the likely maximum wind pressures that may be expected at the top of the Huddart Parker building and then used those pressures to analyse the probable demand on the existing sign steelwork, if it were to support the proposed new electronic signage.

The results are a little mixed with some of the existing members having adequate capacity and some requiring strengthening and/or replacement. The attached concept sketch shows the members that would require attention. We also note that, depending on the make-up of the sign itself, some additional secondary steel members may be required to affix the sign panels to the primary framework.

In addition, and as we observed on site, the steelwork also requires general maintenance (paint-stripping, rust-repair and repainting) and this may identify some other members that require structural repair/strengthening. We also recommend that you should allow to replace say 50% of the existing bolts and to improve connection to the roof deck.

We trust this is satisfactory, please get back to us with any queries.

Yours faithfully,

Adam Thornton
Structural Engineer (*emeritus*)
Dunning Thornton Consultants Ltd
Ph: (04)3850019 Mob: 021470919
Email: adam.thornton@dunningthornton.co.nz

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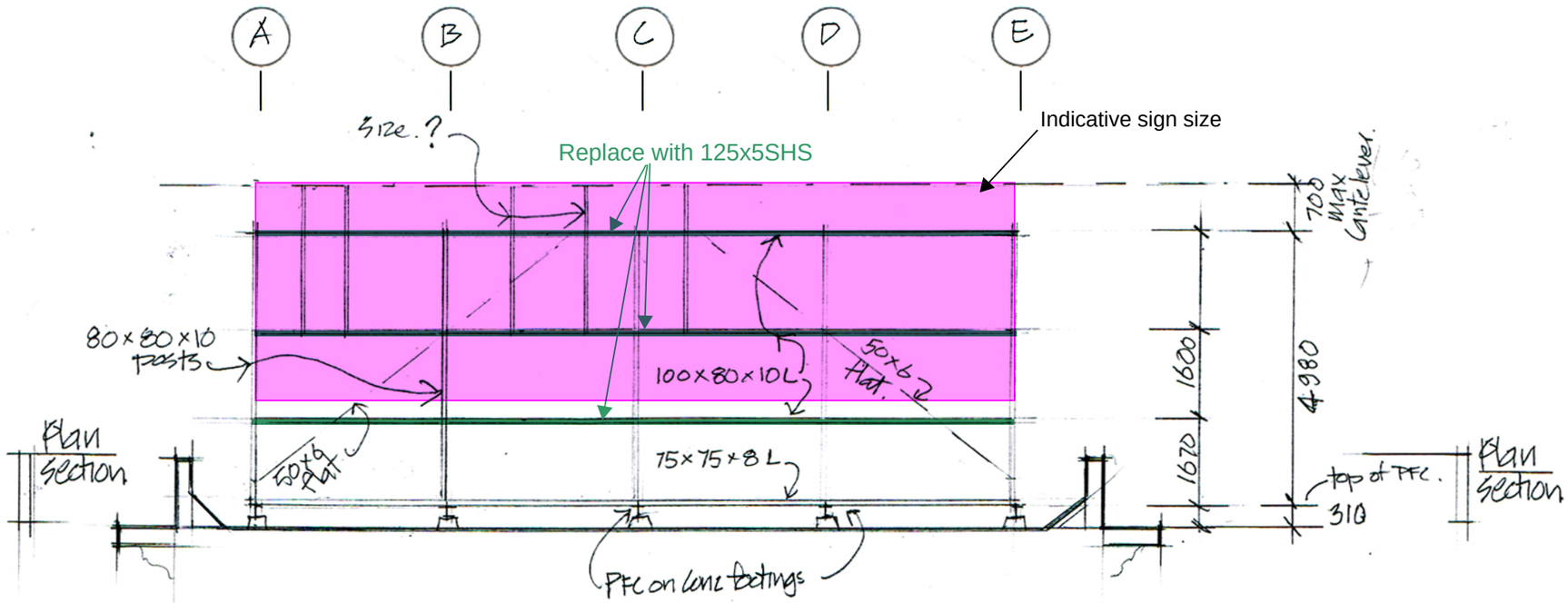
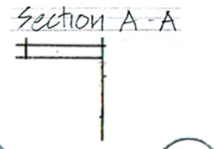
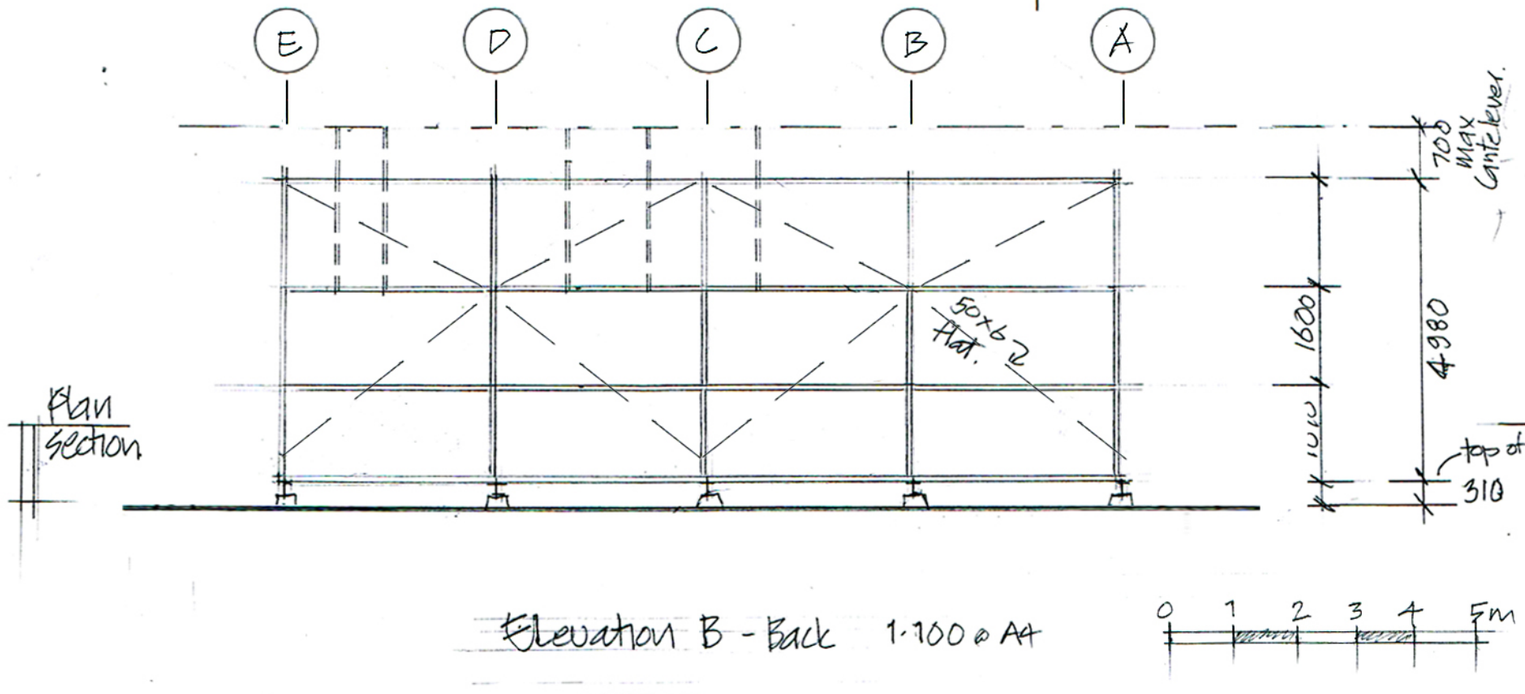
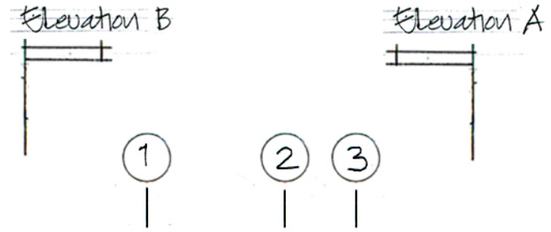


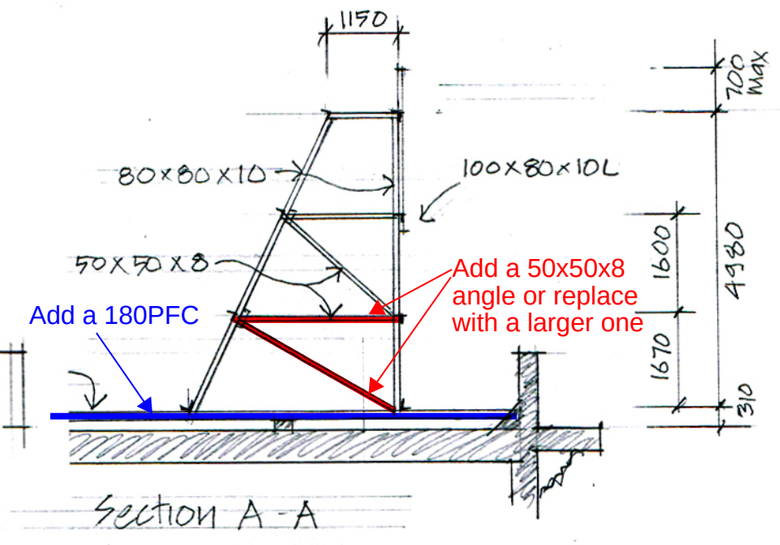
Elevation A - front 1:100 @ A4





Elevation B - Back 1:100 @ A4





Huddart Parker Sign
Existing Structure.
Drawn - Stanthalls Studio. 29.06.20

8442 DTC Mark-up 200923 - Concept Strengthening