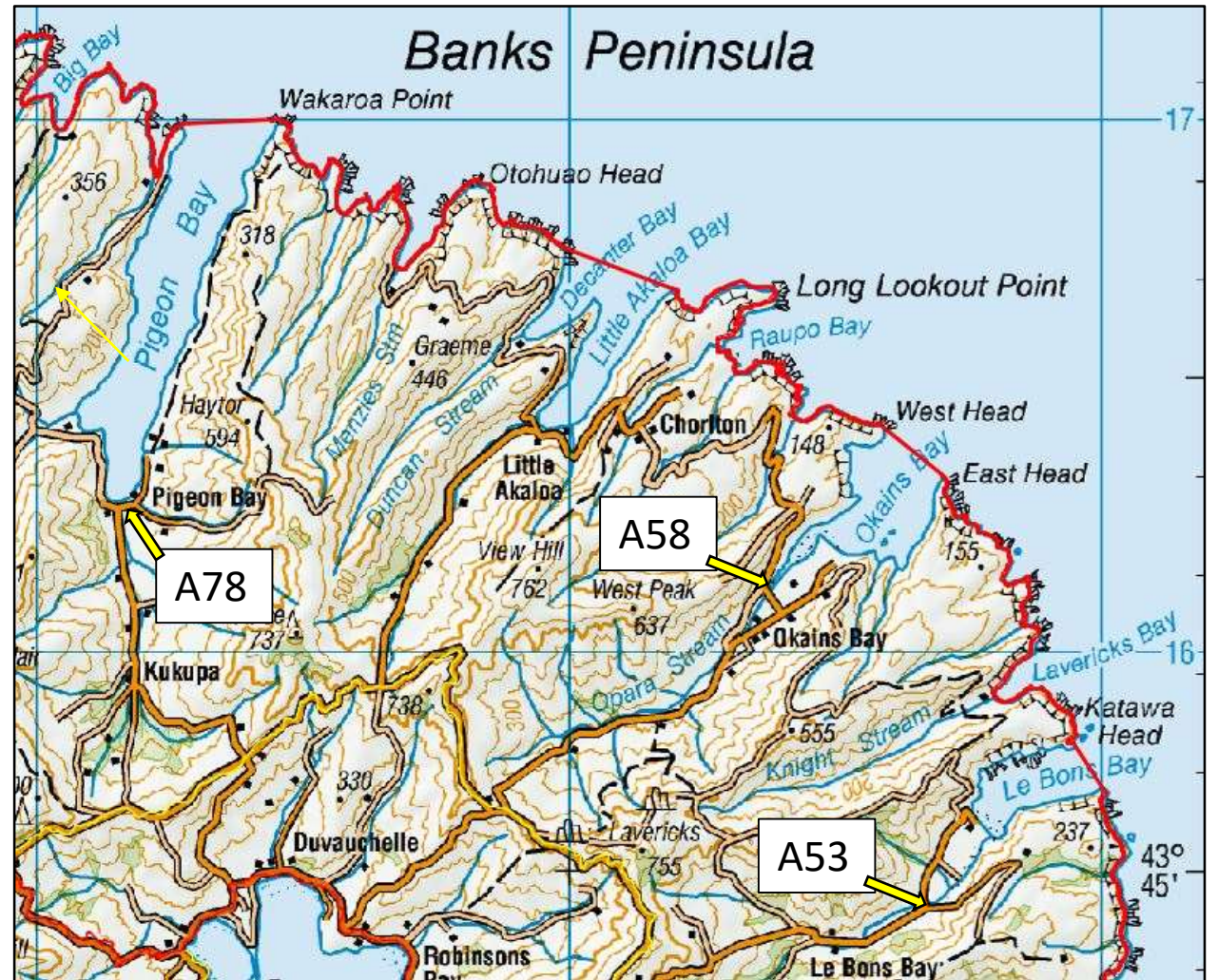


RC bridge balustrade replacements





Bridge Locations



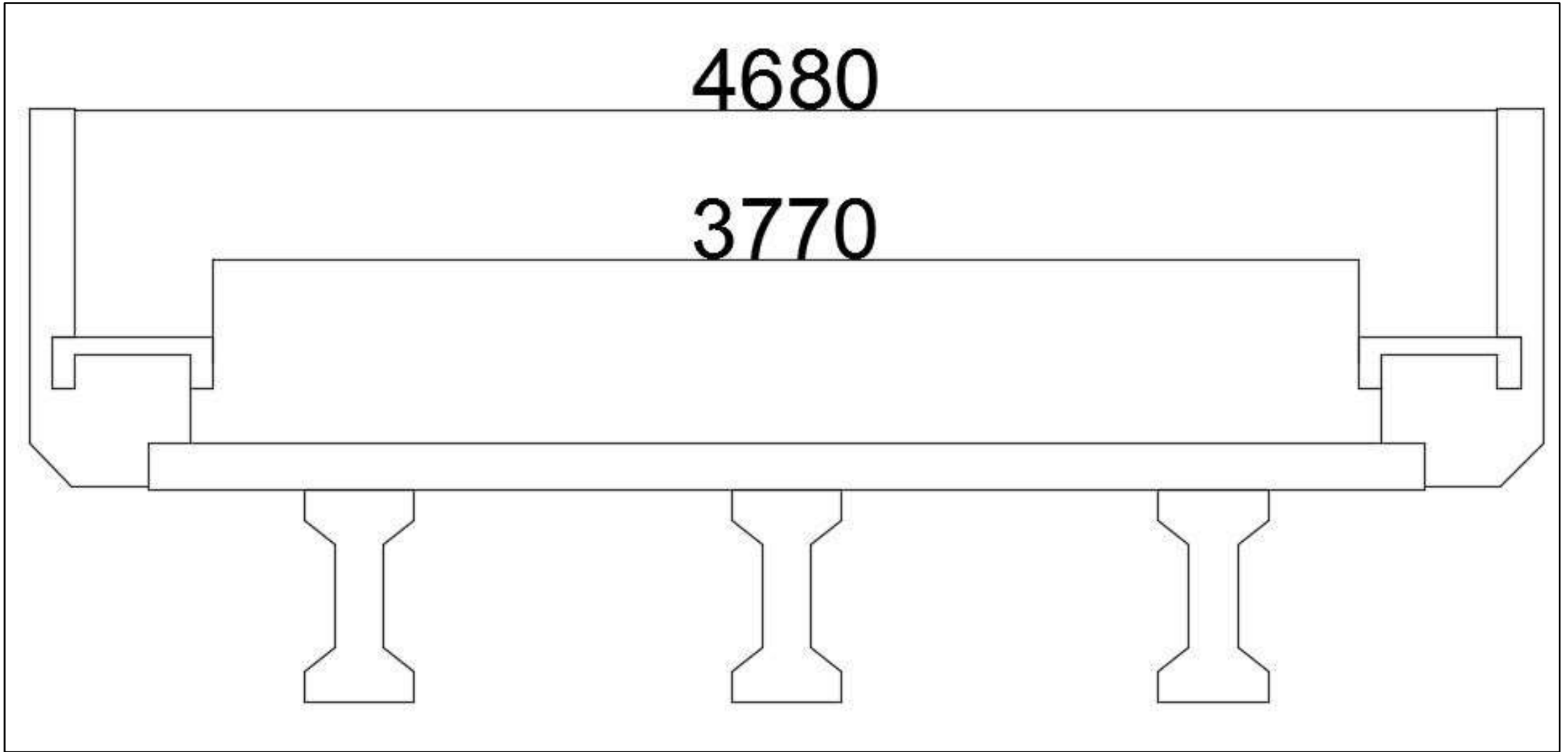
Superstructure of bridges are in good condition



Typical damage/spalling issues

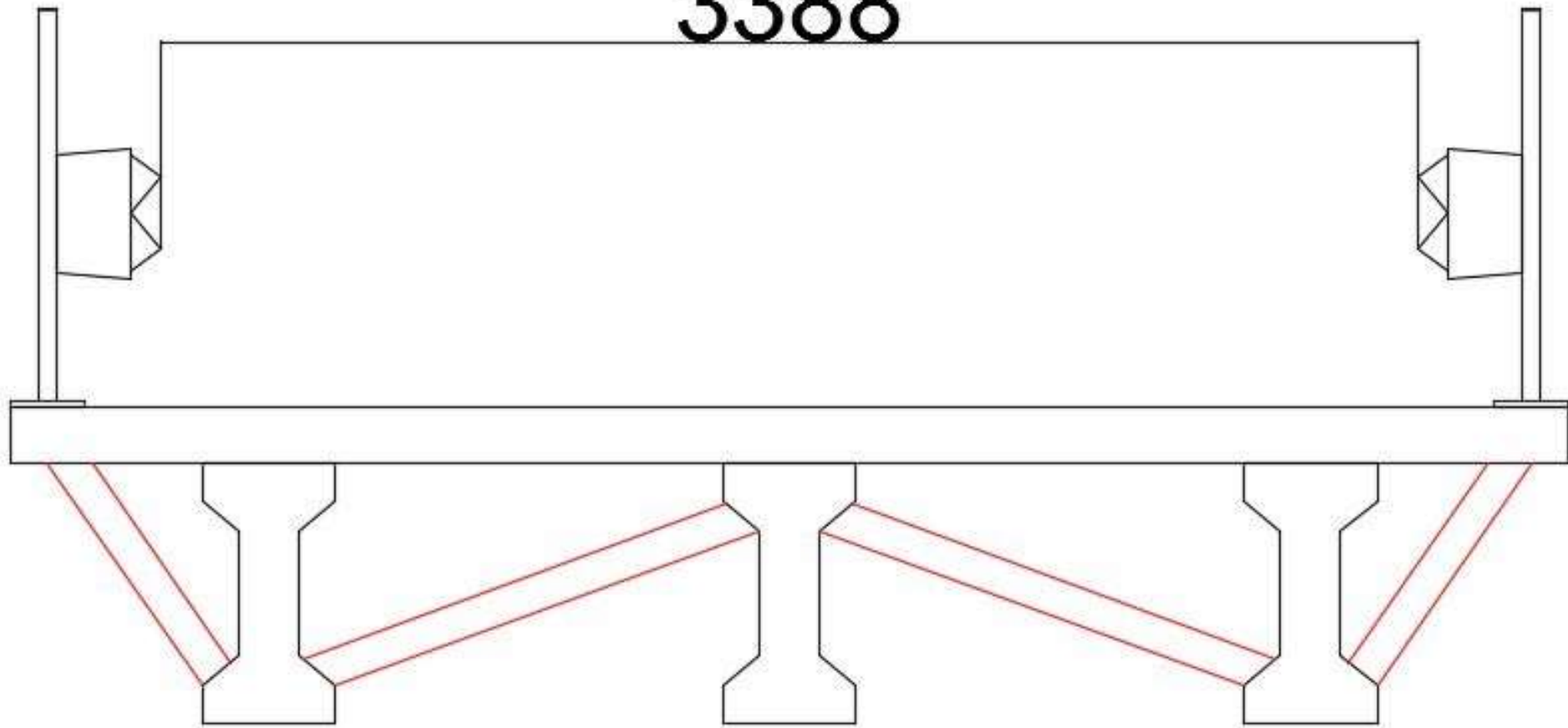


Typical balustrade structure

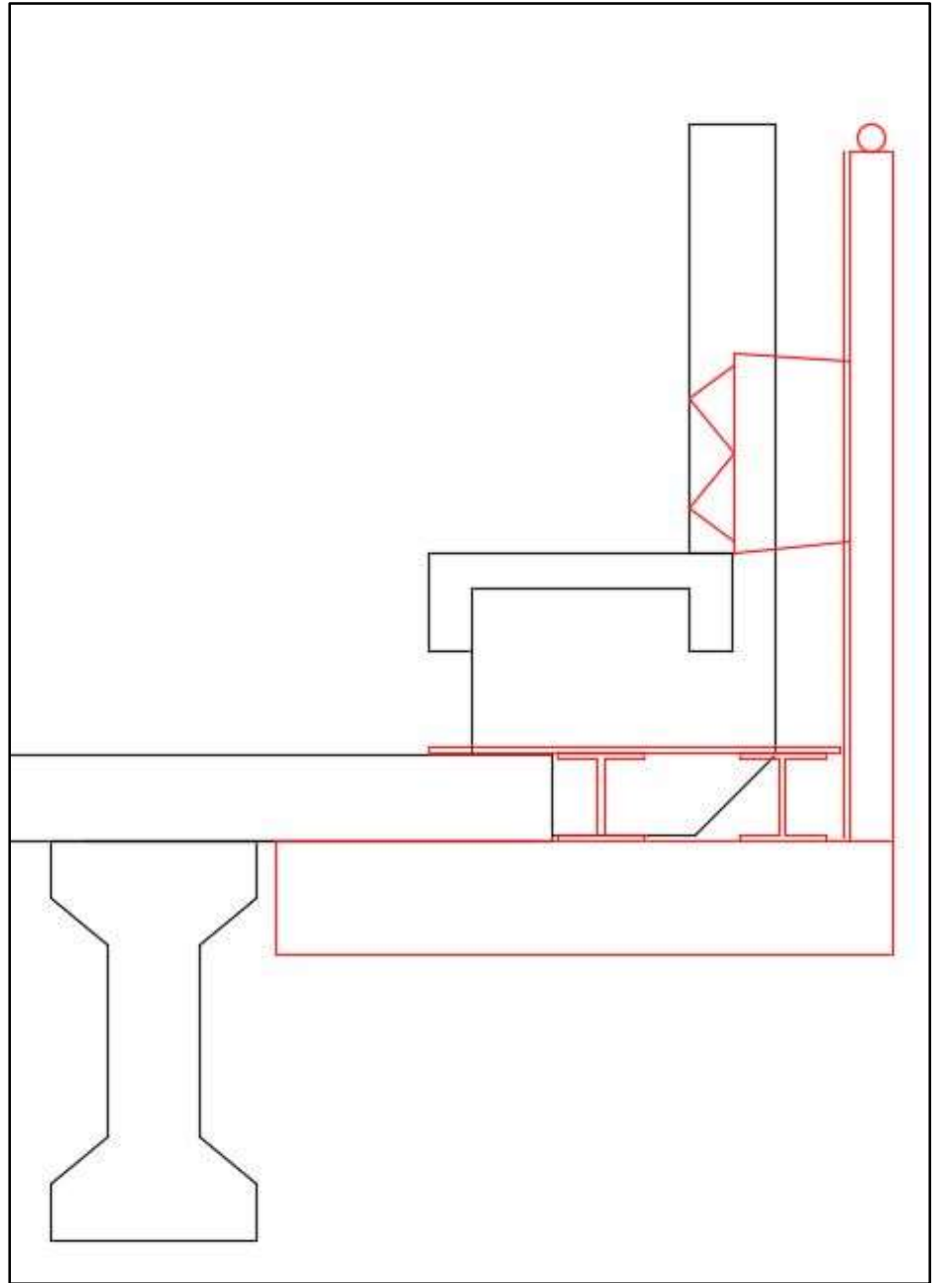
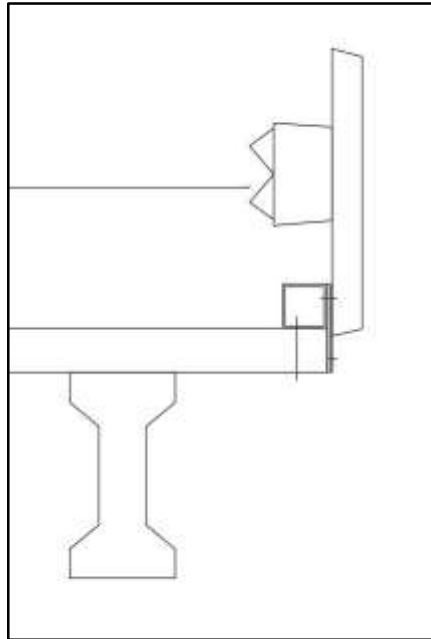
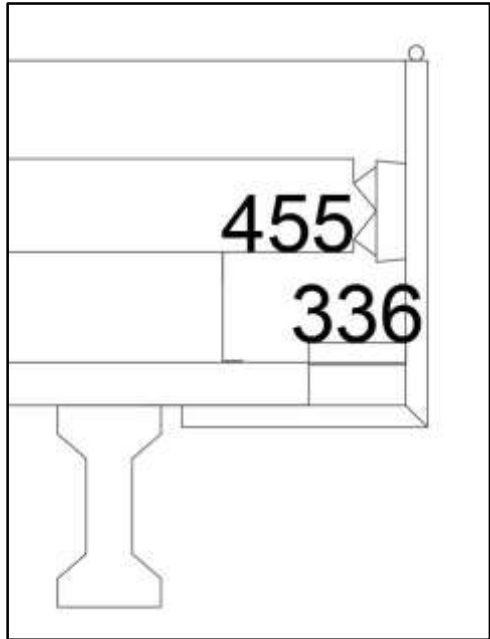
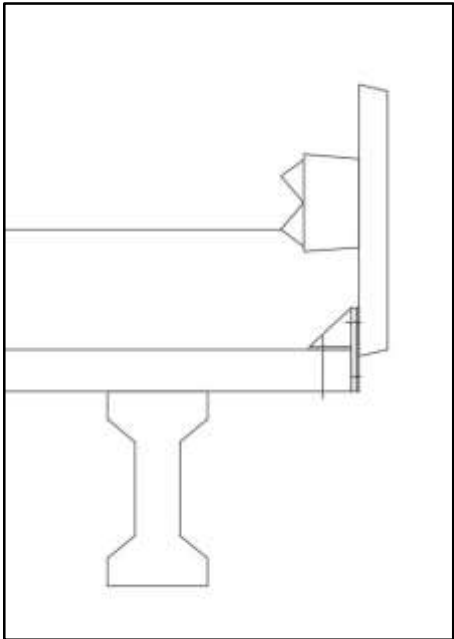
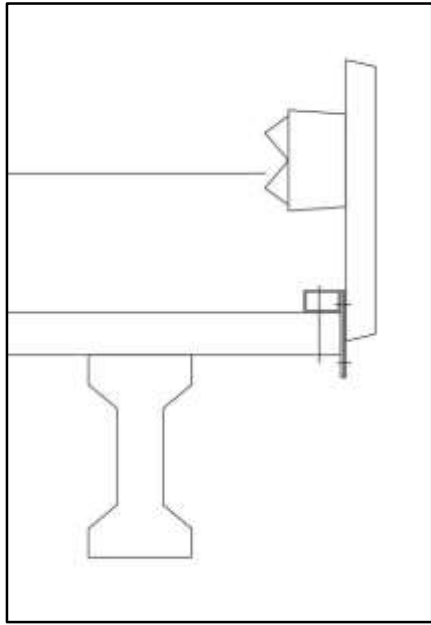
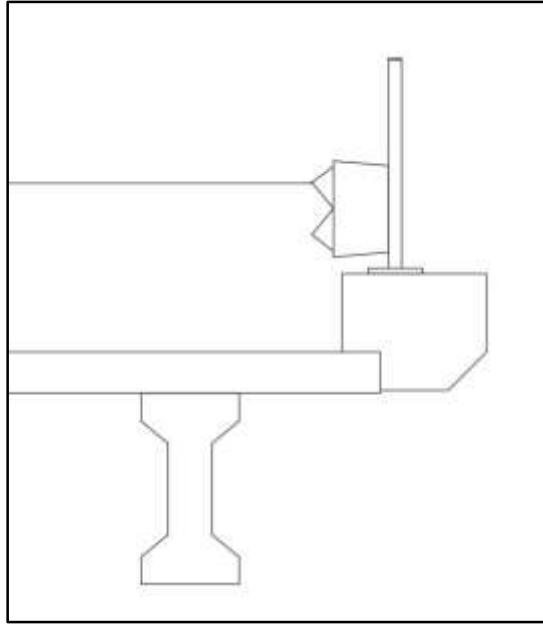
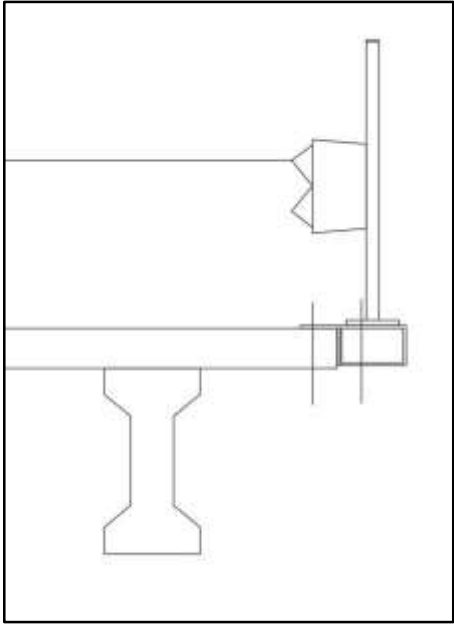


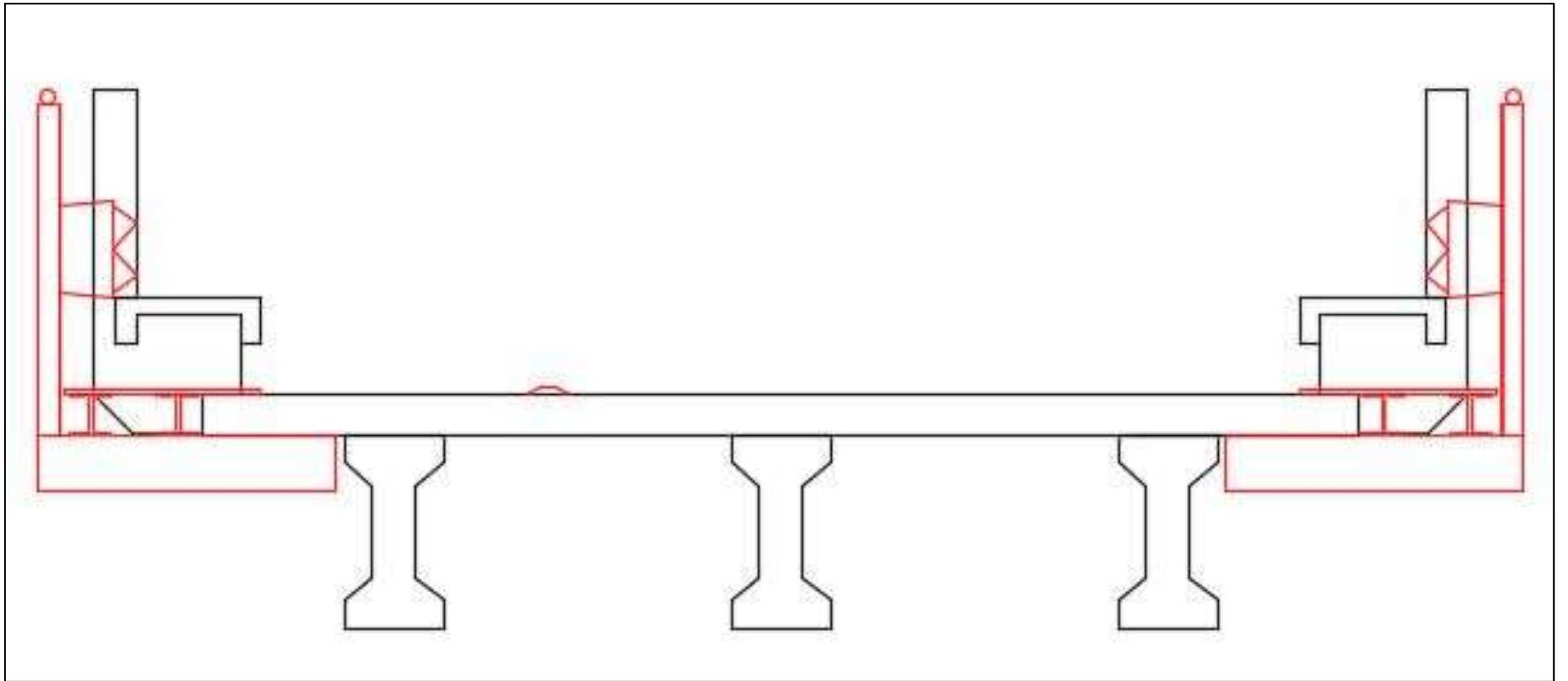
Existing structure

3388

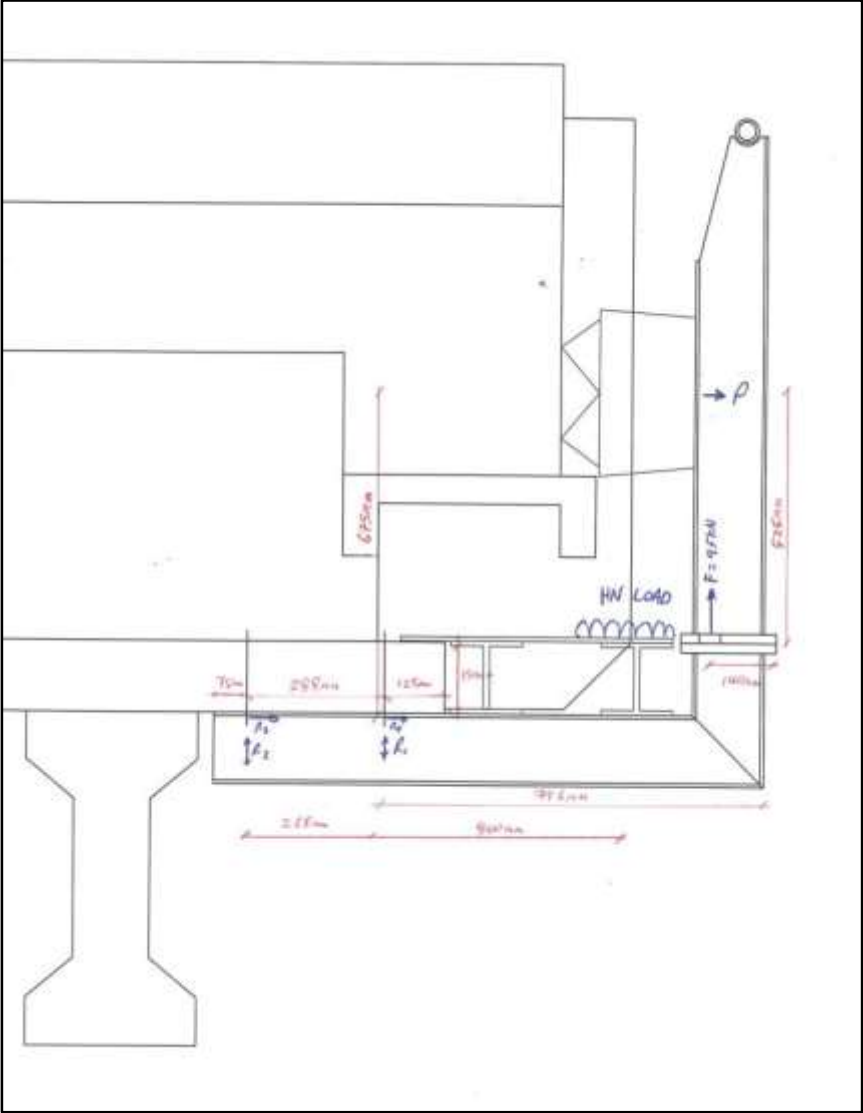


Initial Solution

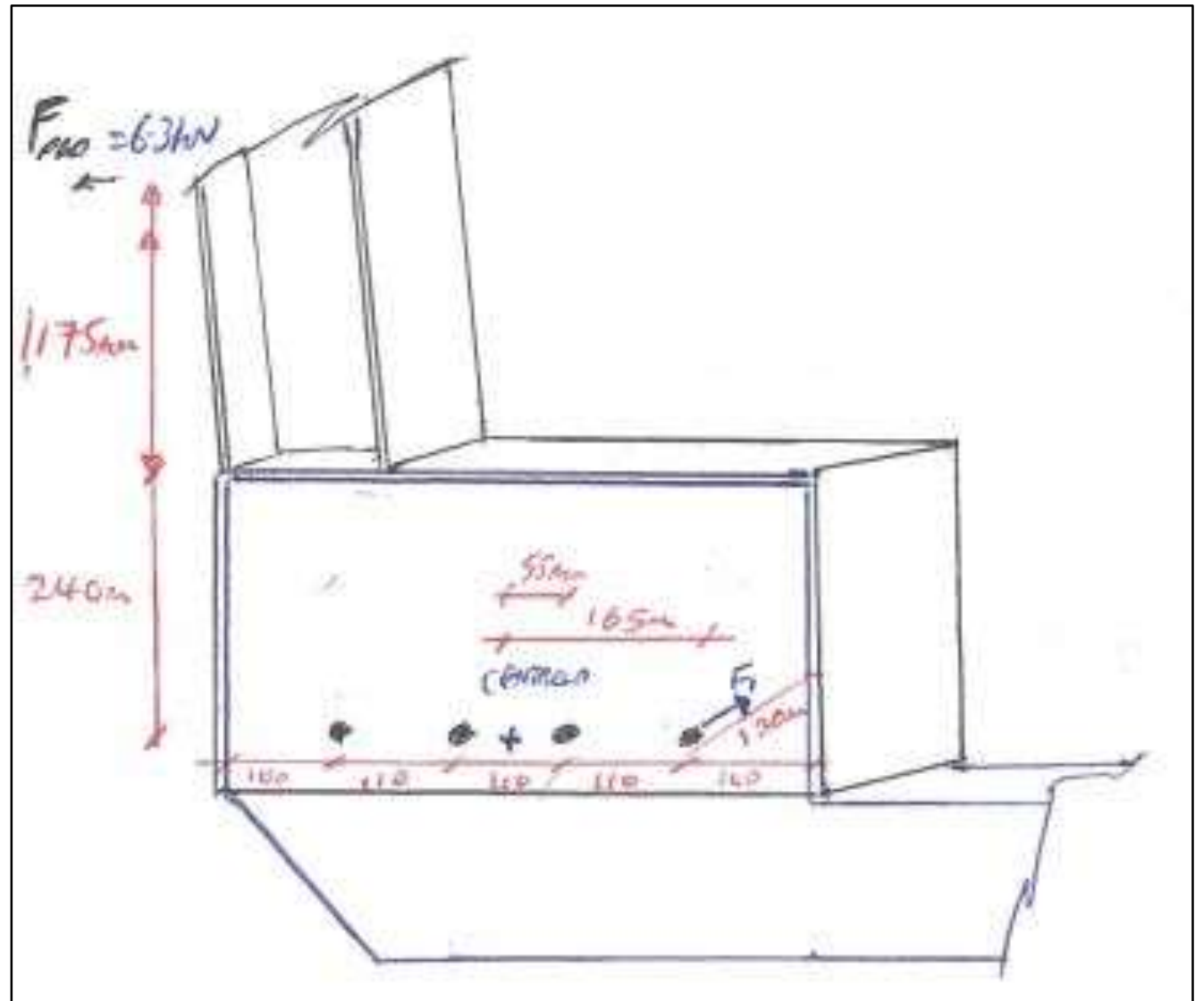
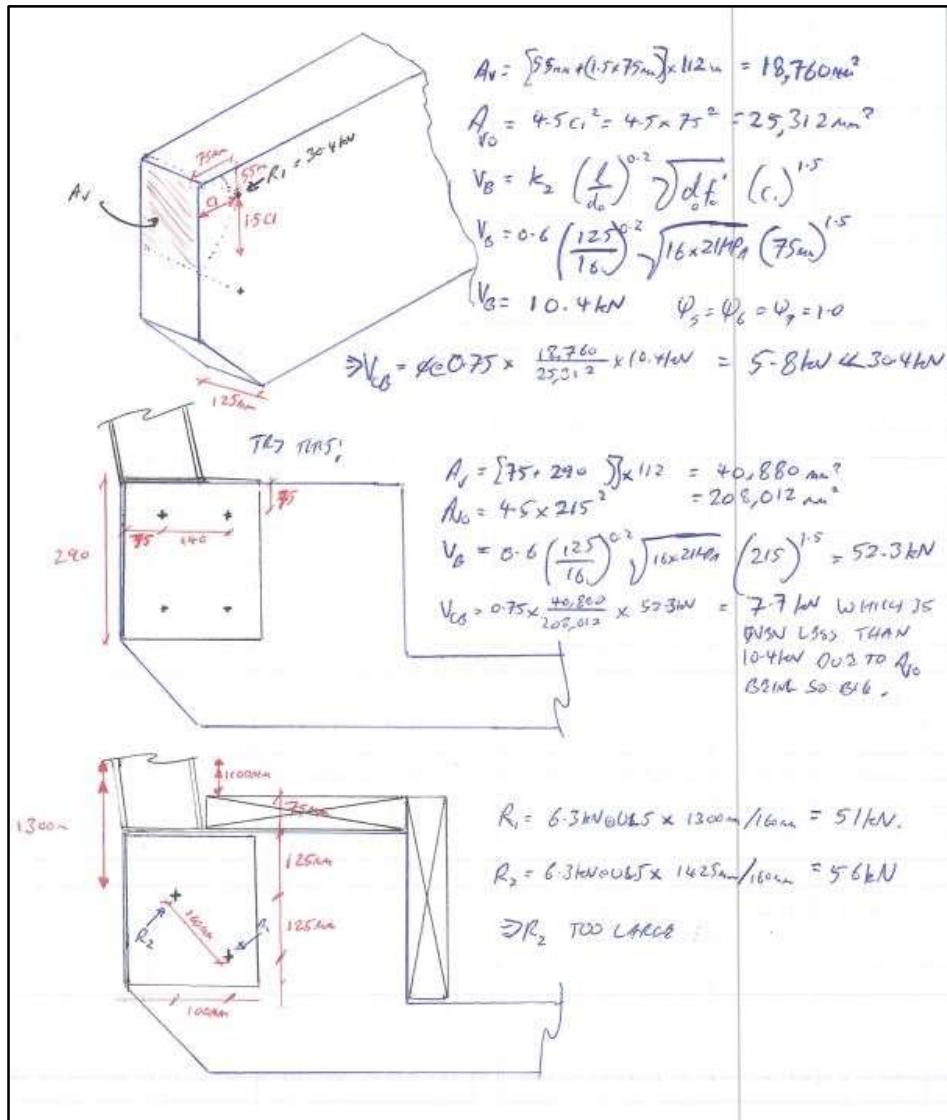




Optimum solution



Loading diagram



The 'pedestrian loads only' solution