

Appendix A1

Examples of Condition photographs of structural elements of on Cumberland Basin



Figure 1a - Typical Example of Condition of an Elastomeric Bearing on elevated sections.



Figure 1b - Typical Example of a misaligned Roller Bearing on elevated sections.



Figure 2a – Typical example of debonded waterproofing layer (in green) creating pot hole formation



Figure 2b – Resultant pot hole repairs - Exposure of Concrete bridge decking, showing partially debonded remains of waterproofing layer being removed, prior to reinstatement of wearing course.



Figure 3a – Original Mechanical “ Comb Joint” Expansion Joint now fused into position resulting in no movement/expansion ability of this joint. This joint will be replaced.



Figure 3b – Previously replaced and now defective, Asphaltic Plug Joint requiring full renewal



Fig 4a – Typical example of a RTC Parapet Repair along the Cumberland Basin Complex



Figure 4b – Typical example of an RTC repair along the Cumberland Basin Complex



Figure 5a General view of Avon fixed bridge showing “Half Joint” Construction and previous repairs



Figure 5b – Close up view of “Half Joint” showing failed previous half joint concrete repairs.



Figure 5c Close up view of previously failed bridge span soffit concrete repairs of Avon Fixed Bridge



Figure 5d – Close up view of seized bearing plate within voided bridge span of Avon Fixed Bridge