

Ballynoe Bridge-L1212, Co Limerick



Engineering Inspection Report
November 12th 2024

221254		Project Title: Limerick Bridge Rehabilitation Schemes 2023-2025	
Date of Visit: 12/12/2024	Time of Visit: 10.30	Site Location:	Ballynoe L1212, Co. Limerick 52.439004, -8.934313
Site Contact Name: -		Role/Title:	-
Purpose of Visit: Engineering Bridge Inspection		Company:	Limerick City and County Council
Weather Conditions: Fresh with clear skies & dry, 14 Degrees Celsius.			

Bridge Orientation & Bridge Elements referenced within Report

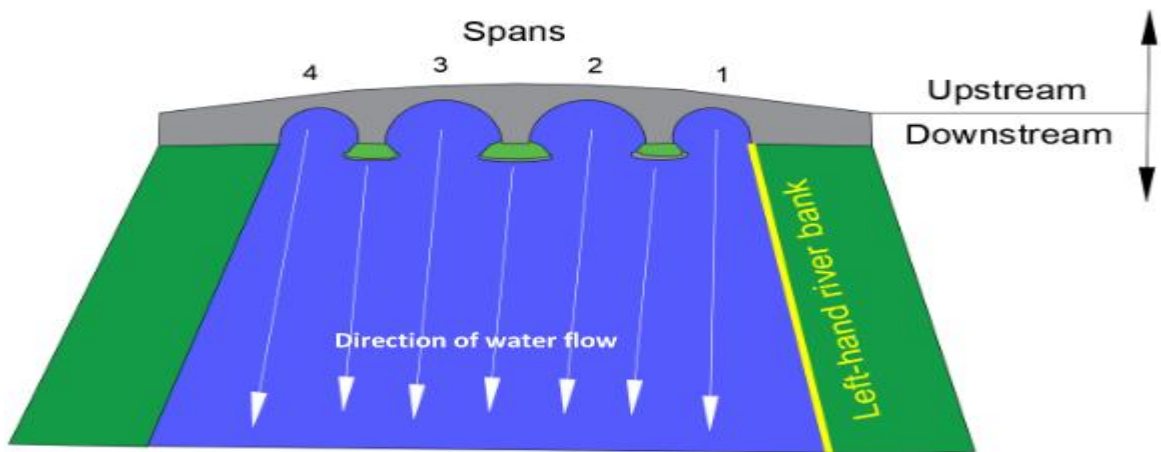


Figure 1.1 Reference Bridge Orientation

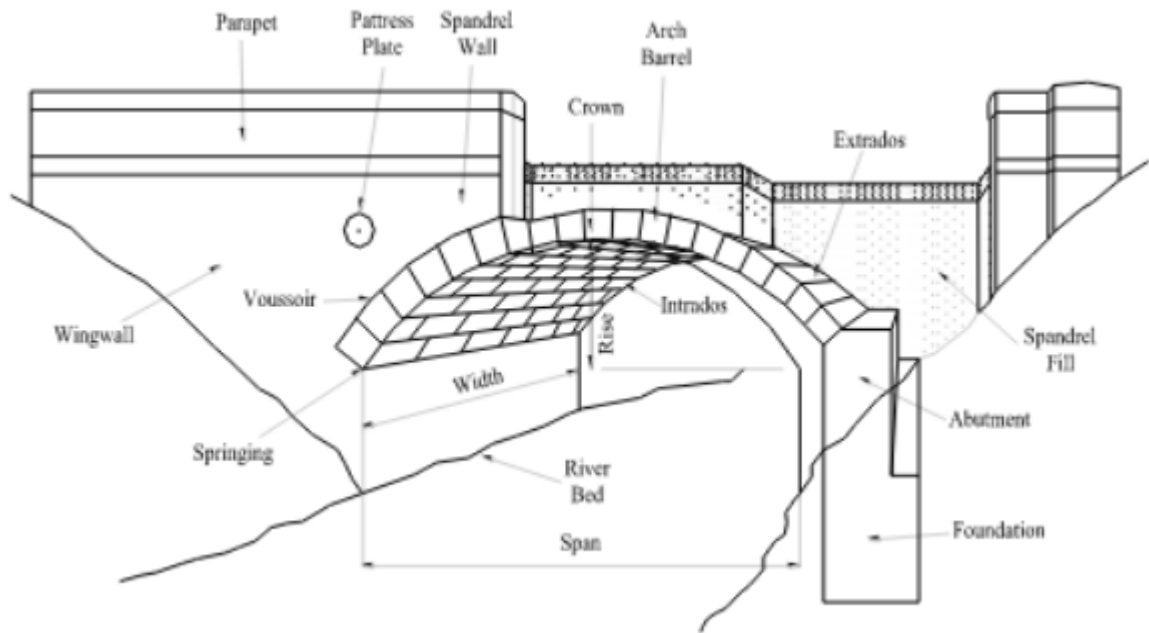


Figure 1.2 Arch Bridge Nomenclature

Visit Details

- Following a request by Limerick City & County Council to review the bridge structure at Ballynoe on the L1212, approximately 9.0 km east of Newcastlewest, Punch visited the site on Tuesday November 12th to undertake an Engineering Inspection.
- The structure is a twin arch masonry bridge which is covered in medium to heavy vegetation, which obscured the masonry stonework behind. The main arch straddles the river, with the second arch operating as an overflow, The ground under the overflow arch is significantly raises, approximately 1.0 - 1.5m above the river channel.
- Both parapet walls have had vehicle impacts, resulting in loose and missing stones. Mortar loss was observed on both parapet & spandrel walls.
- Cracking was observed to the arch barrel to the main arch with a small area of the barrel having dropped out of plane. Previous repair interventions have been undertaken in this area.
- Concrete anti-scour skirting provided to both abutments which is in good condition.

Recommendations

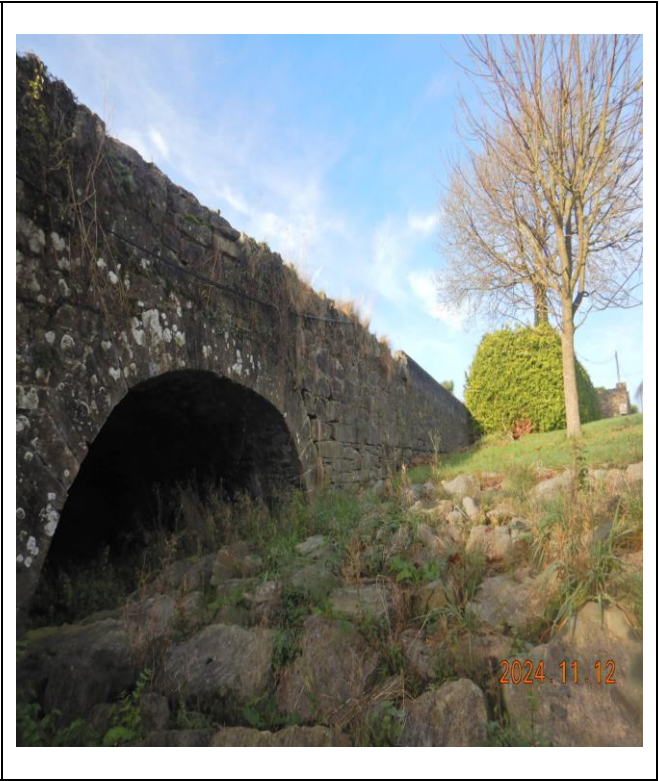
- A Condition Rating (CR) of 3 has been assigned to the bridge structure under the Bridge Asset Management Project rating criteria.

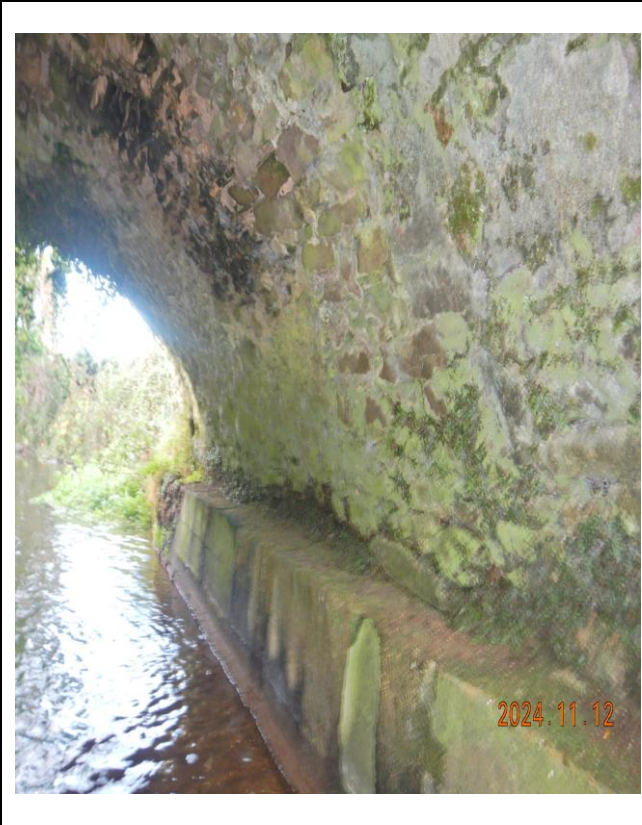
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 Significant damage, repair needed soon. i.e., within next financial year.
- Repair works would include:
 1. Removal of vegetation and repointing and stone replacement to all elements of the bridge structure.
 2. Repair of the intrados stones to the arch barrels
 3. Stitching of cracks to arch barrel.
 4. Stitching of Voussoirs to arch barrel.

Site Visit By:		19 th November 2024
	Signature	Date

Appendix A - Photographs

 A photograph showing a road with a parapet wall. The coping stones are missing, and there is significant vegetation growing on the wall. A house is visible in the background. 2024.11.12	 A photograph showing a wing wall downstream, heavily covered in dense vegetation. A house is visible in the background. 2024.11.12
Missing Coping Stones & Vegetation to both Parapet Walls	Heavy Vegetation on Wing Wall (Downstream)
 A photograph showing an overflow arch, a semi-circular opening in a stone wall, heavily overgrown with vegetation. 2024.11.12	 A photograph showing rock armour in a private residence on approach to the overflow arch. The arch is visible in the background. 2024.11.12
Overflow Arch	Rock Armour in Private Residence on approach to Overflow Arch



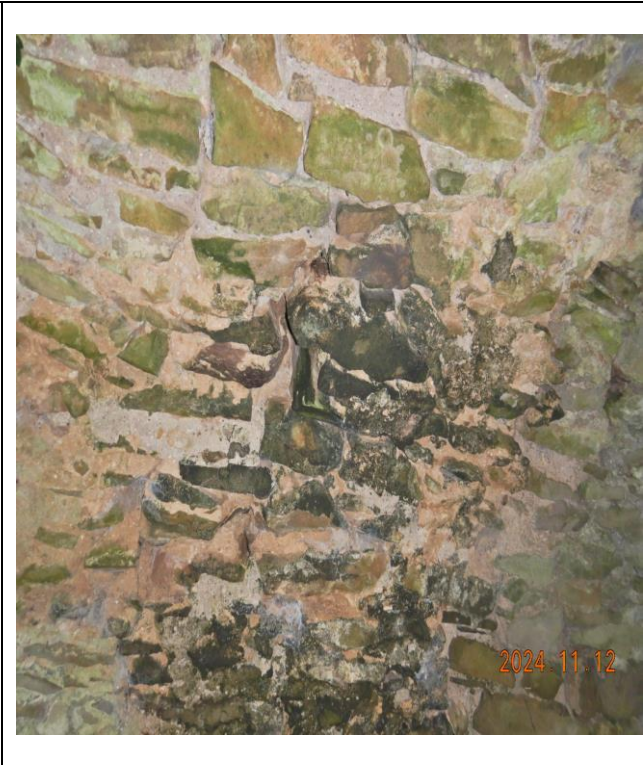
Anti-scour skirting to main arch abutment



Anti-scour skirting to main arch abutment



Areas of Dropped Stones to Arch Barrel



Cracking in Arch Barrel