



ARDCAHAN PLAN VIEW

Scale 1:125

LEGEND:

- River Bandon
- New Rubbing Strip
- Proposed Resurfaced Area

- 6.19. A trial hole and rebar scan shall be completed to confirm the deck reinforcement and strength. Note that the trial hole will be superficial and won't penetrate through the whole thickness of the deck. If this investigation is unsatisfactory, Cork County Council may introduce a weight limit to the bridge.
- 6.20. A spray applied bridge deck waterproofing system shall be installed. Spraying will only be carried out during calm, dry weather periods (little to no breeze) to prevent drift of airborne substances or runoff towards the river.
- 6.21. Kerb drain (feeding to new Black PVC drainage outlet) and concrete rubbing strip to be installed by an operator accessing the area from the deck level.
- 6.22. The pavement surface shall be laid, sand asphalt followed by HRA, high friction colour contract surfacing shall be applied.
- 6.23. Deck drainage outlets shall be reinstated.

Notes

1. Dimensions in meters unless otherwise noted.
2. Levels shown relative to ordinance datum (Malin Head).
3. Known existing service location shown in preliminary safety and health plan. Locations to be confirmed on site by contractor.
4. Drawing to be read in conjunction with the works specification.
5. Refer to drawing series P1959-ARDH-0004 for repair details.
6. **Corrosion Repairs and Parapet minor repairs**
 - 6.1. To facilitate the installation of the suspended scaffold, vegetation within a 2-meter width on either side of the bridge face will be cut back. Trimming will be limited to tree branches; no main stems will be cut.
 - 6.2. Suspended Scaffold from the bridge deck shall be designed by a temporary works design specialist. Suspended scaffold to be installed in order to provide access to the bridge deck soffit this will fully encase the bridge and will be supported by the bridge itself. Note that the scaffold will be fully installed from the bridge without the need for any access to the riverbed. A road closure licence will be required during the whole duration of the works.
 - 6.3. Field tent and bund to be erected on the scaffolding to contain and prevent any dirt and debris falling into the river. The field tent and bund will be impermeable and daily checks will be carried out by the appointed contractor to ensure the system remains in good condition and is capable of fulfilling its function, i.e. containing waste and contaminants within the work area. The bund will cover the surface of the working scaffold deck and tie in with the sides of the field tent to ensure no leakage of fluids/solids will occur. The field tent will cover the entire scaffold and will prevent rain ingress and associated washout of contaminants including sand, paint, concrete or debris.
 - 6.4. Steel beams to be sandblasted to SA2.5 as per detail provided in Drawings P1959-ARDH-0004. Clean sand only to be used. Note that one operator will carry out the sandblasting using appropriate sandblasting equipment accessing to the beams surface from the suspended scaffold provided. Sandblasting equipment typically consists of a chamber in which sand and air are mixed. The mixture travels through a hand-held nozzle to direct the particles toward the surface of work. Field tent to be sealed to ensure the sand and debris won't leak out to the river.
 - 6.5. Welding of additional steel plate at the bottom flange of existing steel beams as shown in Drawings P1959-ARDH-0004. Note that one operator will carry out the welding using portable electric welding equipment accessing the beams surface from the suspended scaffold provided. Note that any petrol generator needed to operate equipment will be positioned on the bridge deck and banded to 110% capacity, daily inspection of bund to be carried out by the appointed contractor to ensure no oil/petrol spillage will occur. Any generator used on the bridge deck will be removed after works cease and stored in a secure banded area in the compound overnight.
 - 6.6. A protective paint system to be applied to all exposed steel work, Hempel Hempadur Mastic 45880/1 or similar approved to be applied by brush in 2 coats of minimum 190 micron DFT (dry film thickness). Note that one operator will paint the steel beams accessing to them from the suspended scaffold provided.
 - 6.7. Stainless Steel Drip Strips will be positioned along the bottom edge of the bridge parapet on both sides of the bridge, the holes will be drilled along the bridge as per the spacing shown in drawing P1959-ARDH-0004 and bolted through with post-fixed mechanical anchors as shown in drawings P1959-ARDH-0004. The position of these elements is shown on drawings P1959-ARDH-0004.
 - 6.8. Cracking at Deck Pier interface to be injected with Epoxy Resin. Prior the injection, the crack and surrounding surface will be cleaned to allow the paste-over to bond to sound concrete. The epoxy resin will be pressure pumped locally (directly into the cracks) to close the cracks at the Deck Pier interface. The deck/pier interface is above the waterline.
 - 6.9. Vegetation on the internal side of the existing parapet and drainage outlets to be cleared from structure.
 - 6.10. Minor repairs to missing sections of render shall be carried out along the parapet as shown in P1959-ARDH-0003. Repairs to be carried out by hand by an operator accessing the parapet surface from the deck/scaffolding level.
 - 6.11. New Black Pvc drain pipe to be positioned in the existing drainage outlets location and fixed in place with mortar from the deck level.
 - 6.12. Scaffold tent and bund to be cleaned and material to be sent to an appropriate licensed off-site waste management facility. Waste/debris will be collected and placed in secure containers and brought up to the bridge deck for transfer to the site compound and then off-site disposal at a suitably licensed facility. The frequency of waste/debris removal from the scaffold will occur at minimum at the end of each work day, or following completion of a specific task, whichever occurs first. If large volumes of waste/debris are created due to the nature of the task, removal will occur more frequently, in order to prevent large buildups which would pose a higher environmental risk and also pose health and safety risks in the confined environment of the enclosed scaffold. Collected waste will be removed from the compound for off-site licensed storage/disposal at the end of each day.
 - 6.13. The scaffold tent and bund will be inspected prior to and during works, and following each task, to ensure any breaches in the material potentially caused by works are detected. In the event of a breach occurring, works will cease. If possible the breach will be repaired and sealed with suitable materials. If the breach cannot be repaired, all debris will be removed and works will be paused until a new tent/bund is installed.
 - 6.14. Scaffold to be safely removed. The procedure used will be the reverse of the installation described above.
- Deck Works:**
 - 6.15. Upon completion of corrosion repairs works it is proposed to repair the road surfacing on this bridge and Parapet. A road closure and diversion will be required to facilitate these works. Works shall not be carried out in periods of heavy rain. Heavy rain is defined by Met Éireann as a precipitation rate that exceeds 2 mm per hour averaged over 3 or 6 hours.
 - 6.16. The deck drainage outlets shall be blocked with a water proof membrane to prevent run off or debris entering the water course.
 - 6.17. The existing road surface shall be scarified, and the existing surface shall be removed, and the concrete surface of the bridge deck exposed.
 - 6.18. Any defects encountered when deck is exposed to be repaired using an appropriate concrete repair mortar. This will only include small, localized repairs with concrete repair mortar, only the top side of the deck will be involved with no risk of leakage to the river.

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Rev.	Description	App By	Date
A	ISSUE FOR DISCUSSION	BDH	03.05.23
B	ISSUE FOR PLANNING	BDH	17.08.23
C	ISSUE FOR PLANNING	BDH	23.11.23

PROJECT		CLIENT		
CORK COUNTY BRIDGE REHABILITATION SOUTH & WEST REGION 2019		Cork County Council Comhairle Contae Chorcaí		
SHEET		Scale (@ A1-)	As Shown	Rev
		ARDCAHAN BRIDGE PLAN		Drawing Number P1959-ARDH-0002

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