

The Constraints and Options shown are draft only and subject to change. More detailed assessments, on-going studies and the information received from the public may result in changes to these Constraints and Options. Licence number: CYAL50441756 © Tailte Éireann

Option A Partial Removal of the Weir





Commentary

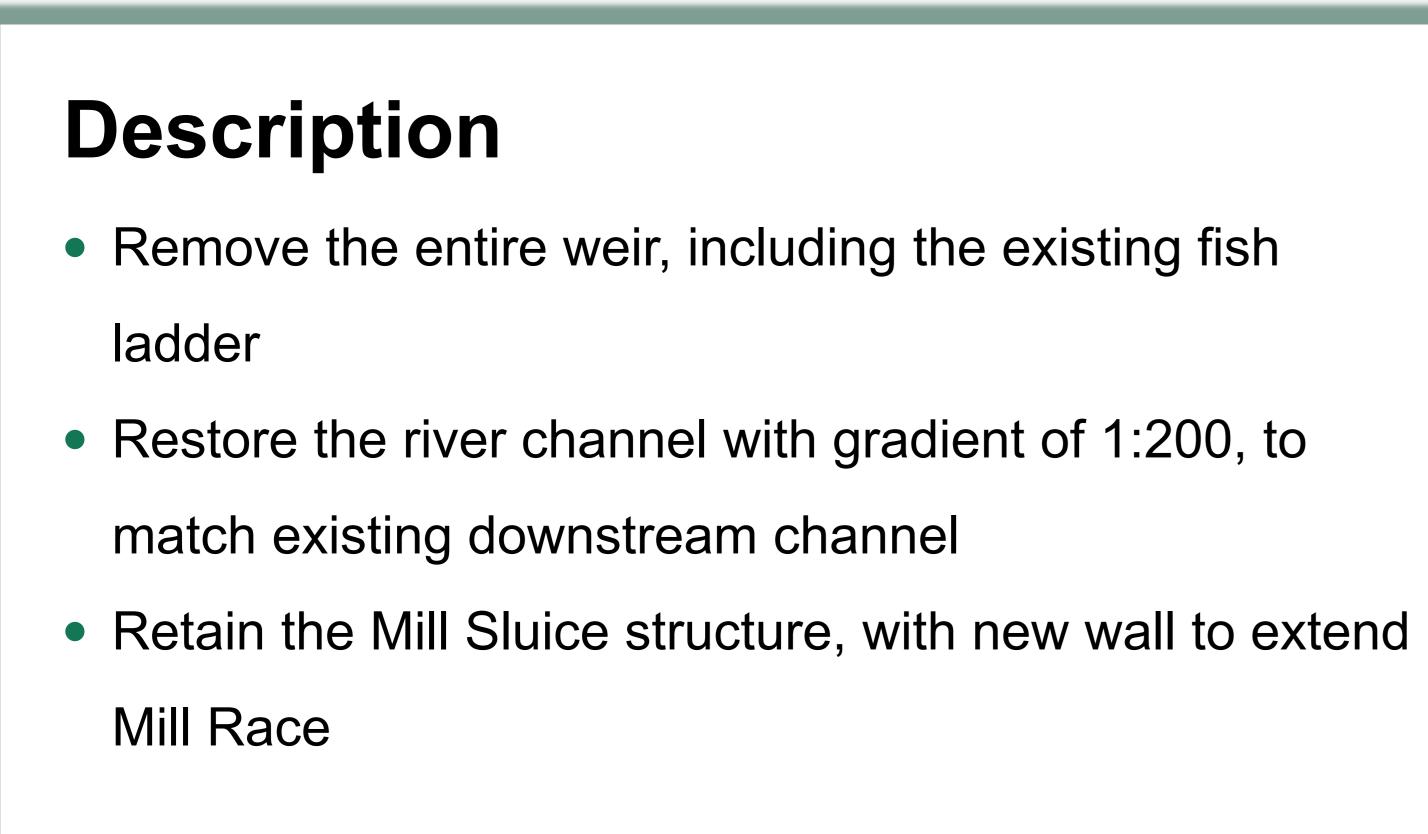
• Fish: Main river flow in partially restored river channel allows free passage of fish • Flood: Partial removal of obstruction to flood flow marginally reduces upstream flood levels, with no impact on downstream flood levels • Nature: Partial restoration of river channel improves hydro-morphology and ecological diversity

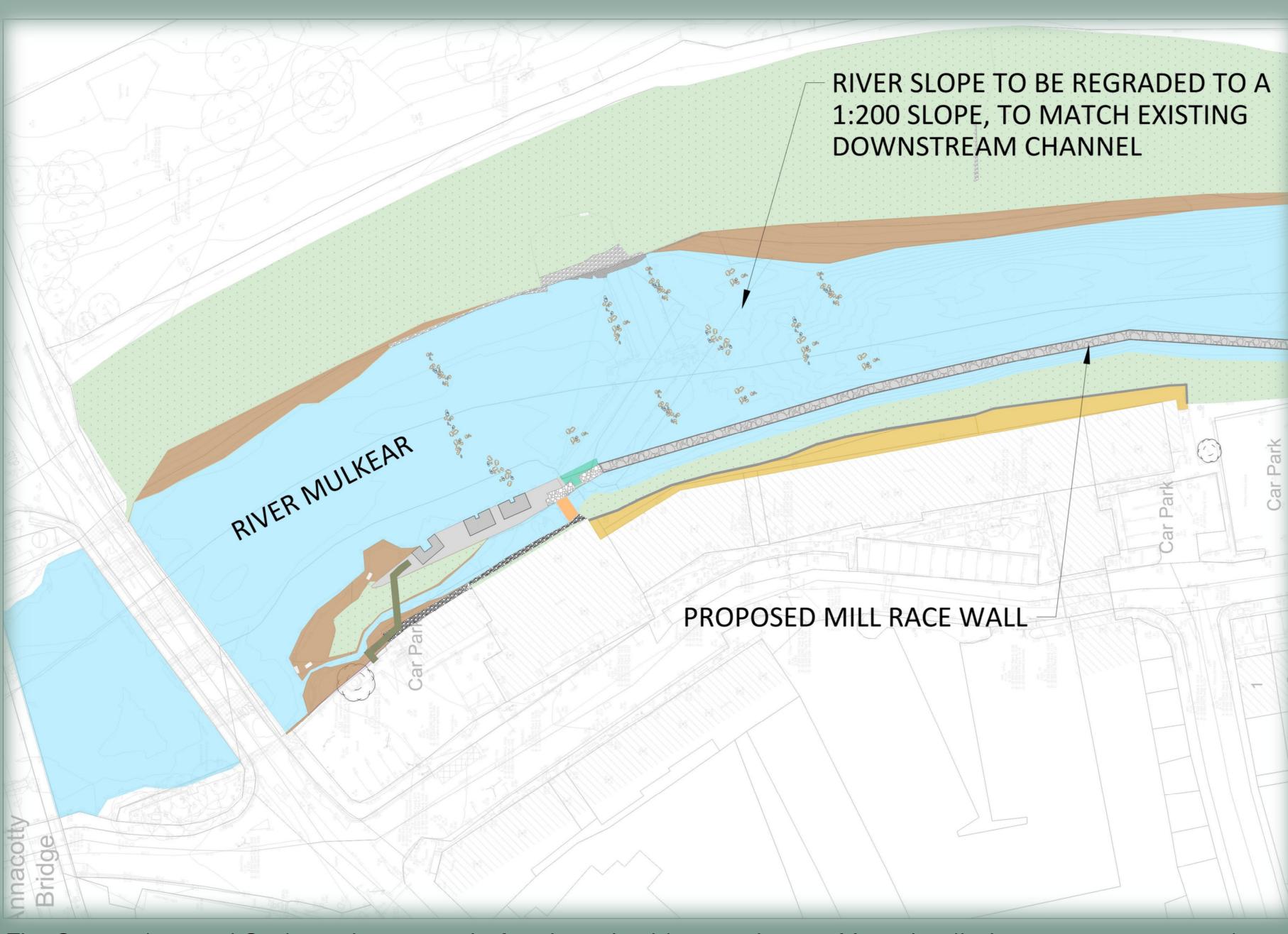
• Amenity: Loss of the weir impoundment impacts on some water-based activities. • Views and Scenery: Partial removal will leave retained part of weir visible and dry in normal flow conditions

• Heritage and Archaeology: Partial removal of the weir will leave in place an existing concrete structure adjacent to the protected Mill Building









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Option B Full Removal of the Weir





Commentary

• Fish: Main river flow in restored river channel allows free passage of fish • Flood: Full removal of obstruction to flood flow significantly reduces upstream flood levels, with no impact on downstream flood levels • Nature: Restoration of river channel improves hydro-morphology and ecological diversity

• Amenity: Loss of the weir impoundment impacts on some water-based activities. • Views and Scenery: Full removal of the modern weir structure will allow views of the restored river channel

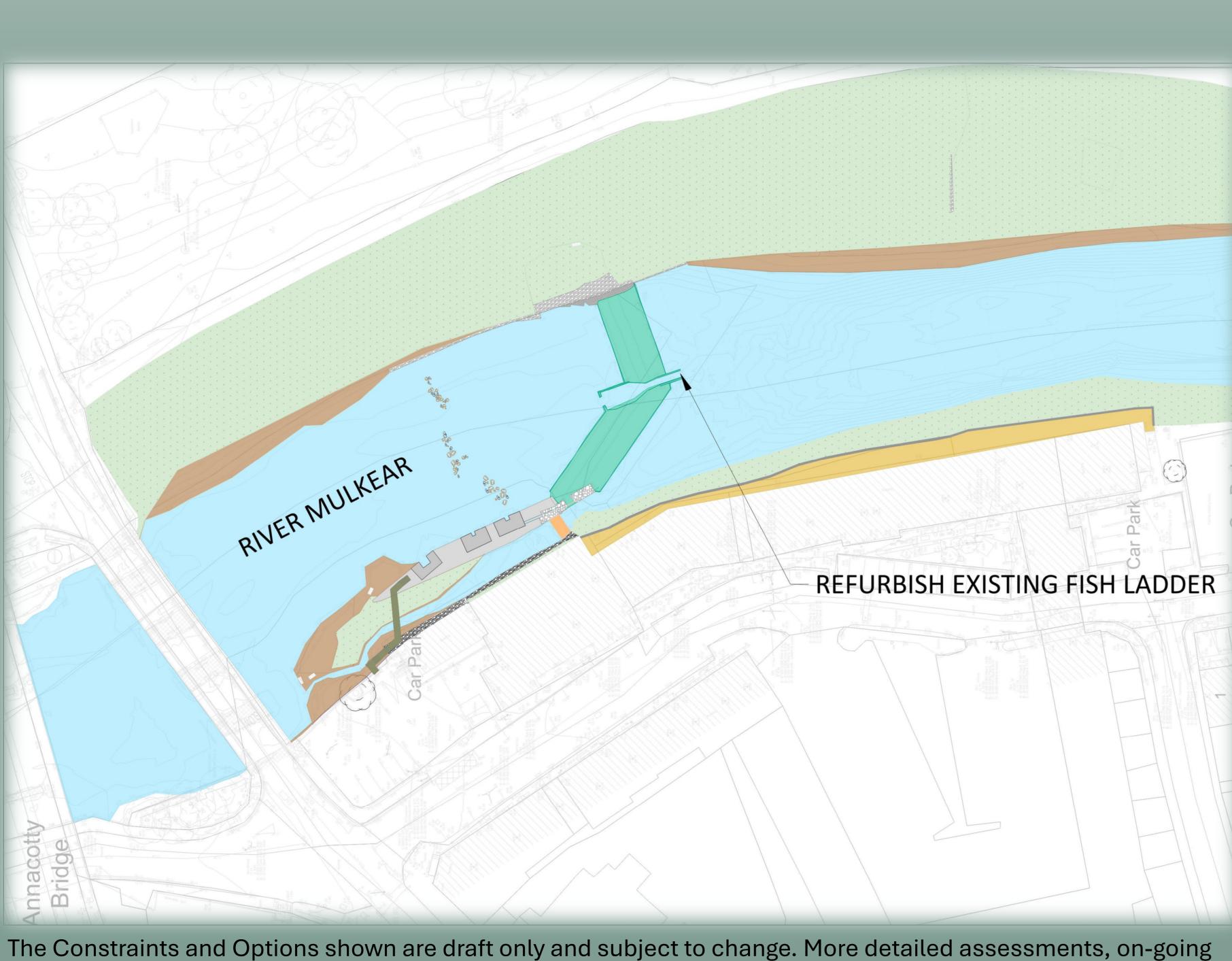
• Heritage and Archaeology: Full removal of the modern concrete weir, leaving original historic features in place adjacent to the protected Mill Building





Description

- Retain the entire weir, including the existing fish ladder
- Retain the Mill Sluice structure
- Refurbished fish ladder, moderately improving gradient and placement of baffles
- Refurbishment constrained by existing geometry



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Option C Refurbish Existing Fish Ladder





Commentary

• Fish: The existing ladder is impassable for certain fish species and fish at particular life stages due to its steep gradient

- Flood: No change to flood levels
- Nature: No change to existing conditions
- Amenity: No change to existing conditions

• Views and Scenery: This option retains the existing modern weir and fish ladder • Heritage and Archaeology: This option will retain the prominent modern concrete

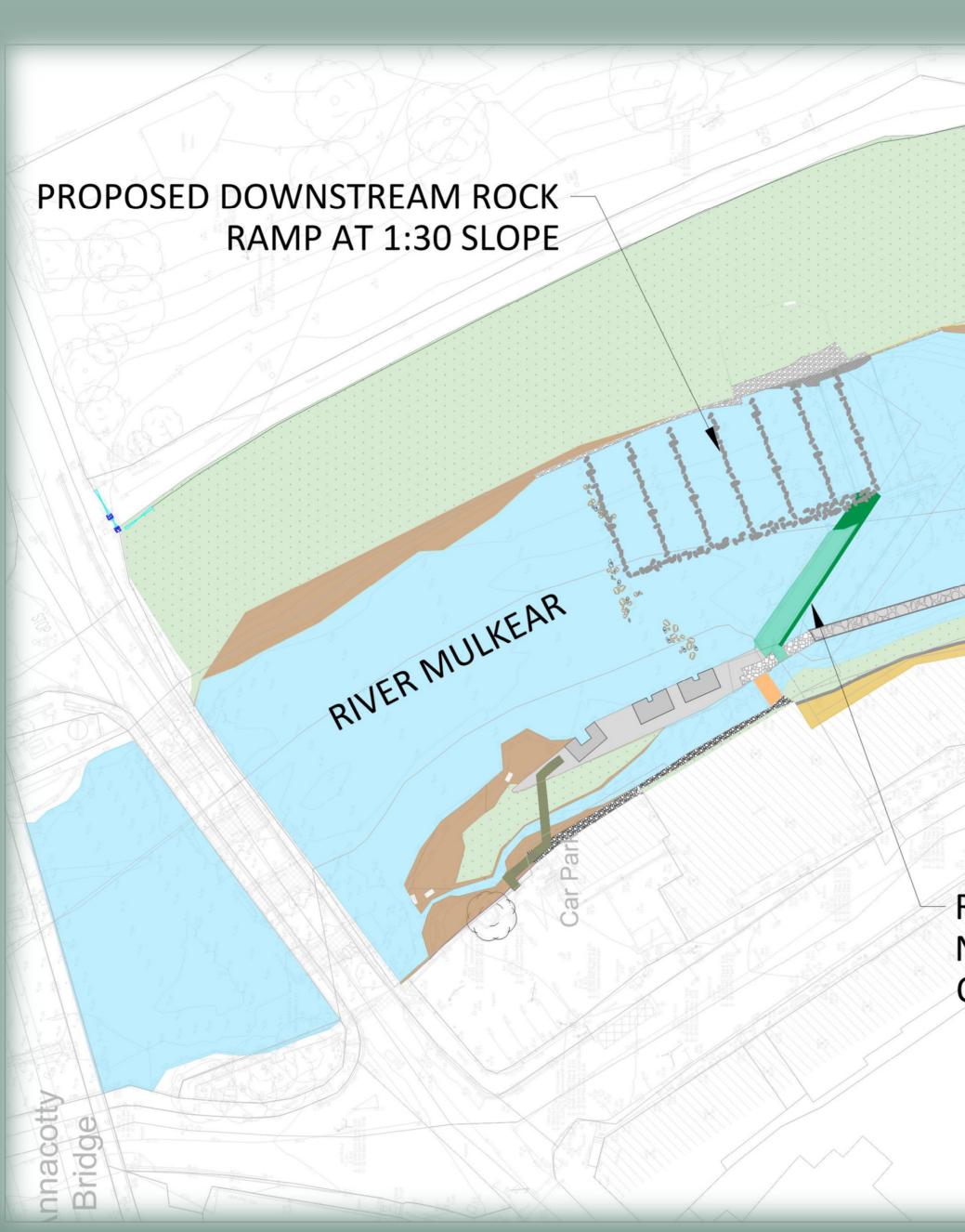
weir structure adjacent to the protected Mill Building





Description

- Retain the existing weir, lower the crest level by 0.75m
- Remove the existing fish ladder
- Install new fish pass (downstream rock ramp)
- Retain the Mill Sluice structure, with new wall to extend the Mill Race



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Option D Lower the Weir Crest Level and Rock Ramp

PROPOSED MILL RACE WALL

REDUCE HEIGHT OF WEIR BY 0.75m. NEW CAPPING TO LOWERED CREST OF WEIR







Commentary

• Fish: Moderately improves passage of fish species • Flood: Lowering the weir crest level will substantially reduce upstream flood levels, with no impact on downstream flood levels (except with downstream rock ramp)

• Nature: Marginal change to existing conditions

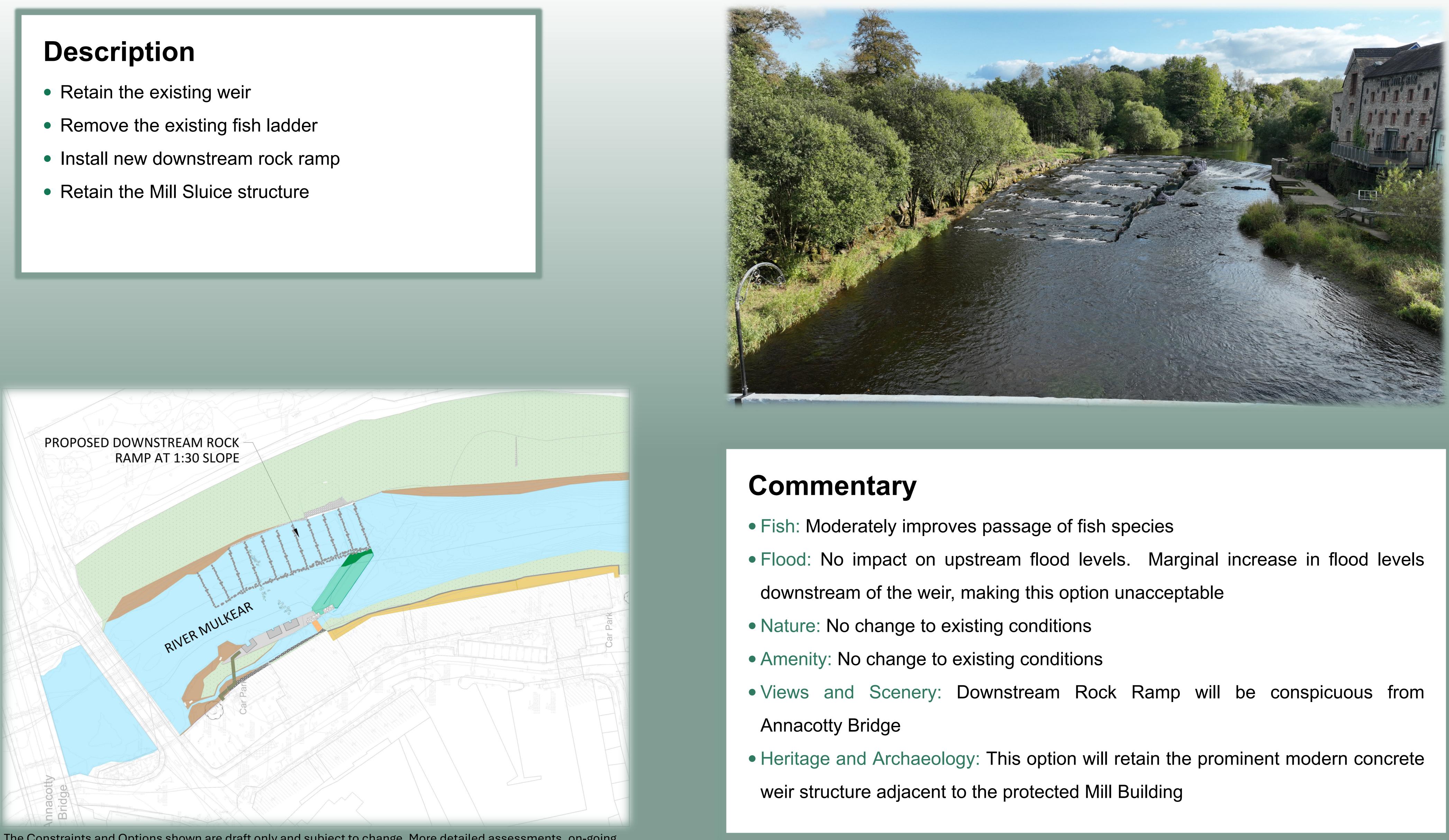
• Amenity: Reduced water depth in the weir impoundment potentially impacts on water-based activities.

• Views and Scenery: Visual impact of weir will be diminished as it will be reduced in height.

• Heritage and Archaeology: Reduces the prominence of the modern concrete weir structure adjacent to the protected Mill Building







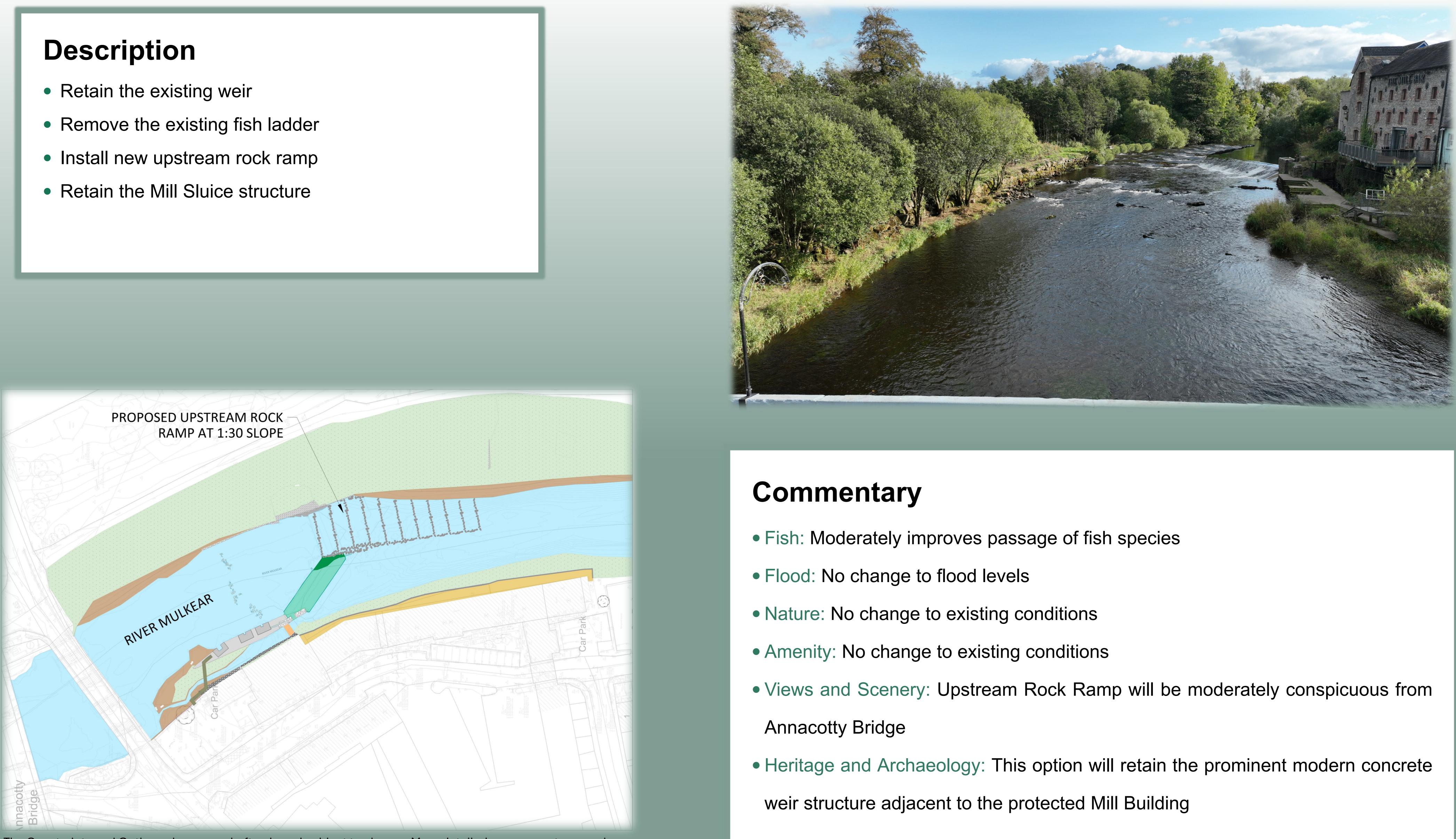
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Option E Downstream Rock Ramp









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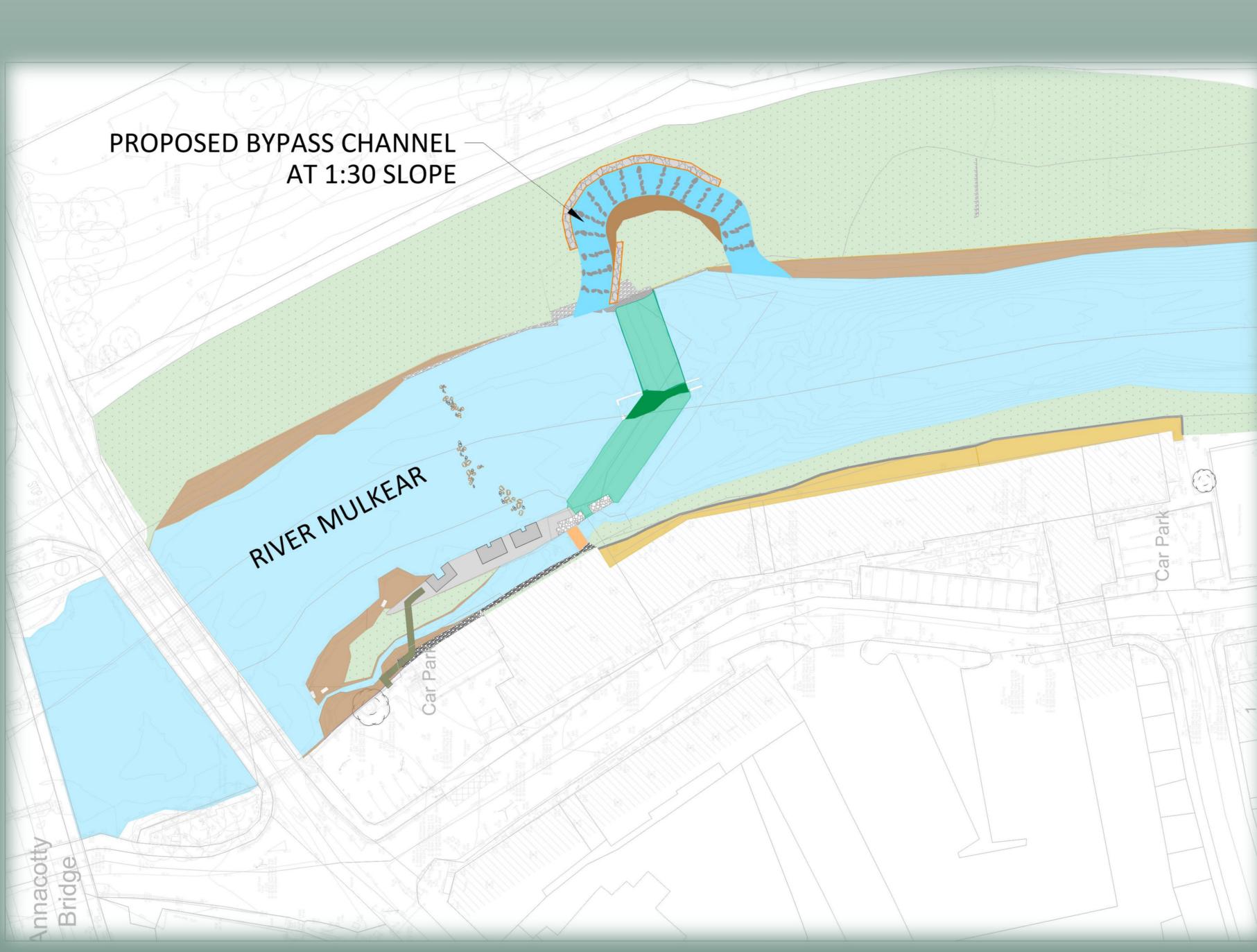
Option F Upstream Rock Ramp





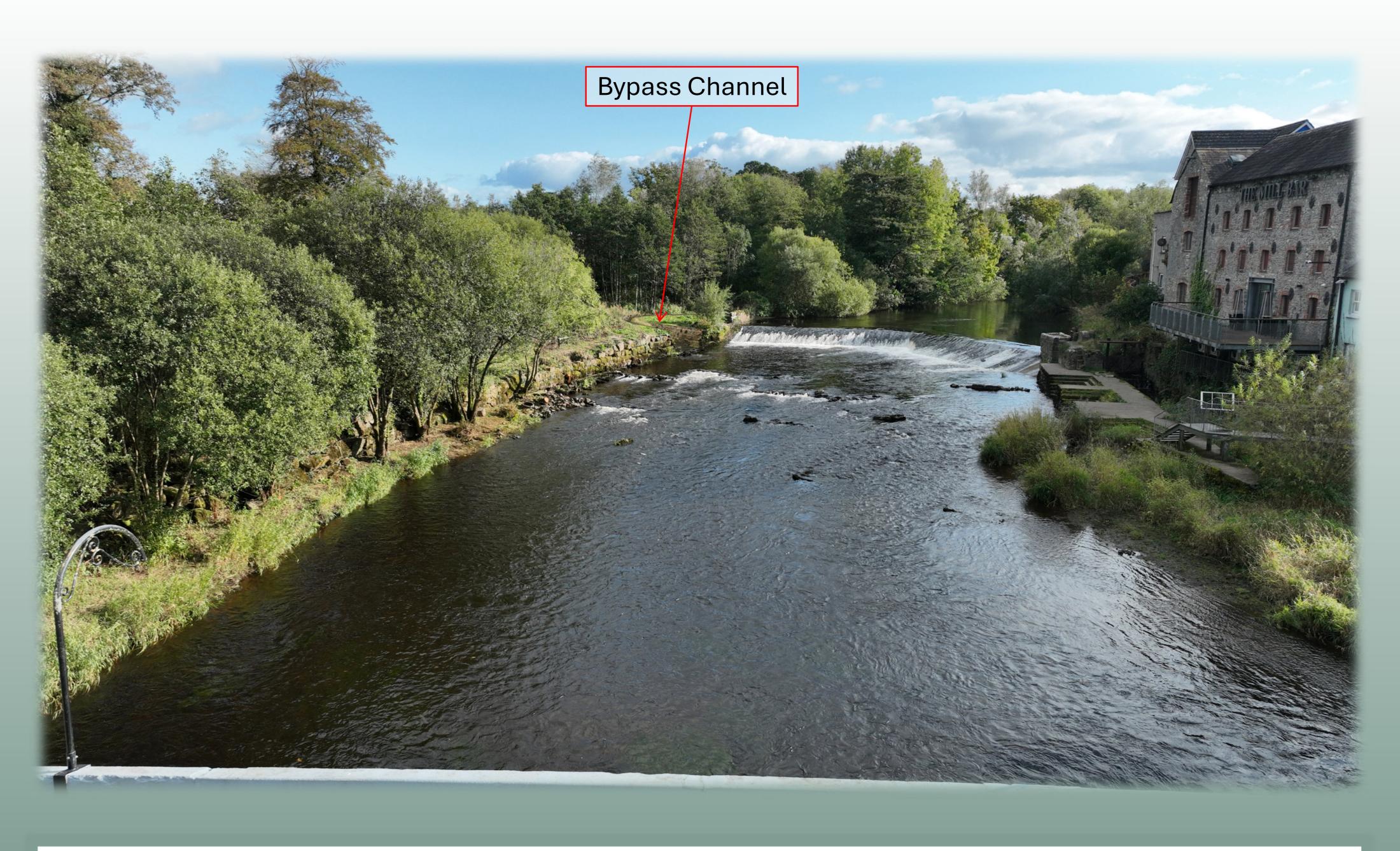


Description Retain the existing weir • Remove the existing fish ladder Install new by-pass channel in right bank (eastern bank) • Retain the Mill Sluice structure



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Option G Bypass Channel



- Views and Scenery: Bypass Channel will be noticeable, but will be largely obscured by the riverbank
- Heritage and Archaeology: This option will retain the prominent modern concrete weir structure adjacent to the protected Mill Building. The bypass channel would be constructed in an area of potential archaeological features.

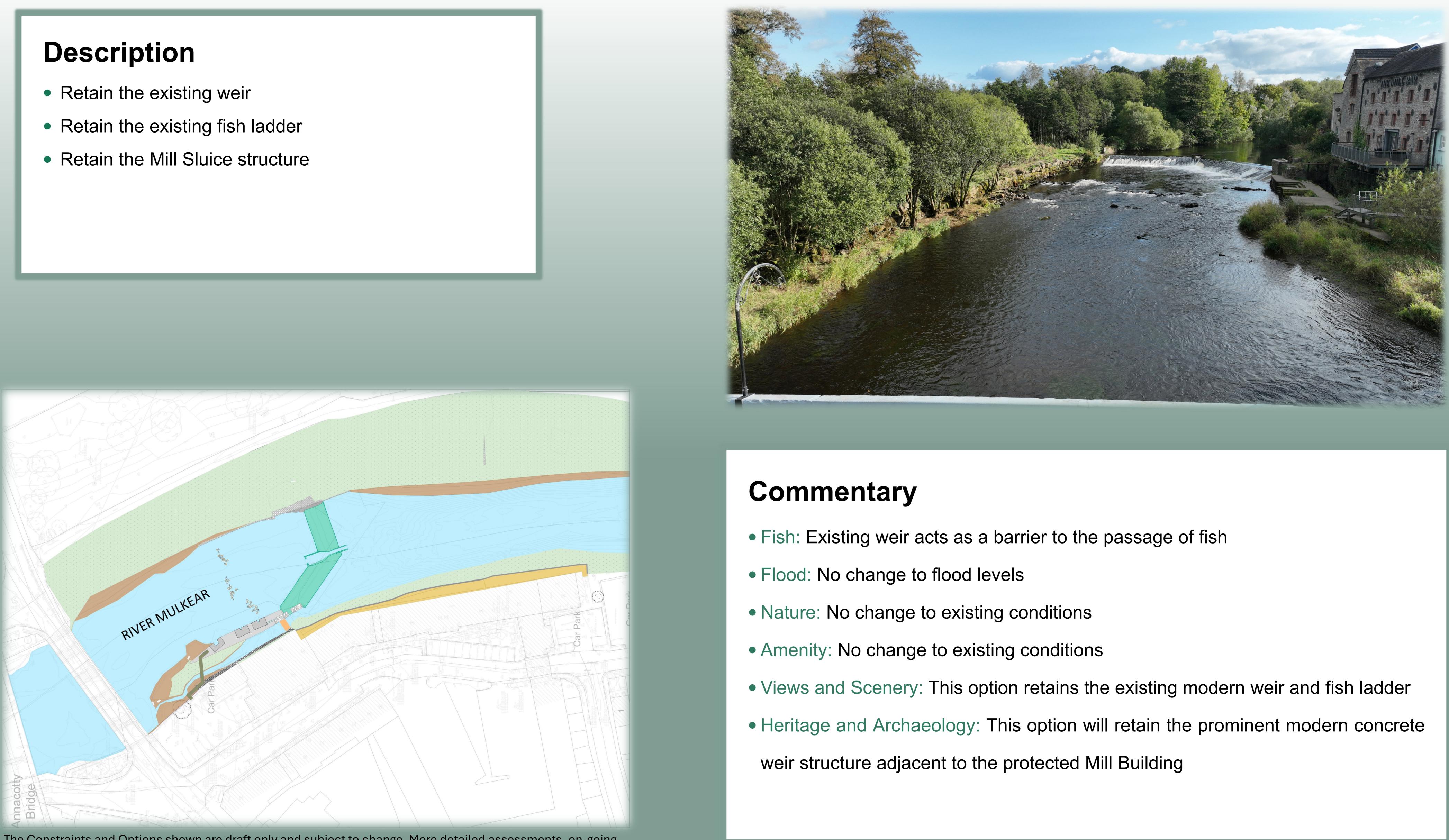


Commentary

- Fish: Marginally improves passage of fish species Flood: No change to flood levels
- Nature: No change to existing conditions in the river. The bypass channel would be constructed in the right bank riparian corridor, which is part of the Lower
- Shannon Special Area of Conservation (SAC)
- Amenity: No change to existing conditions







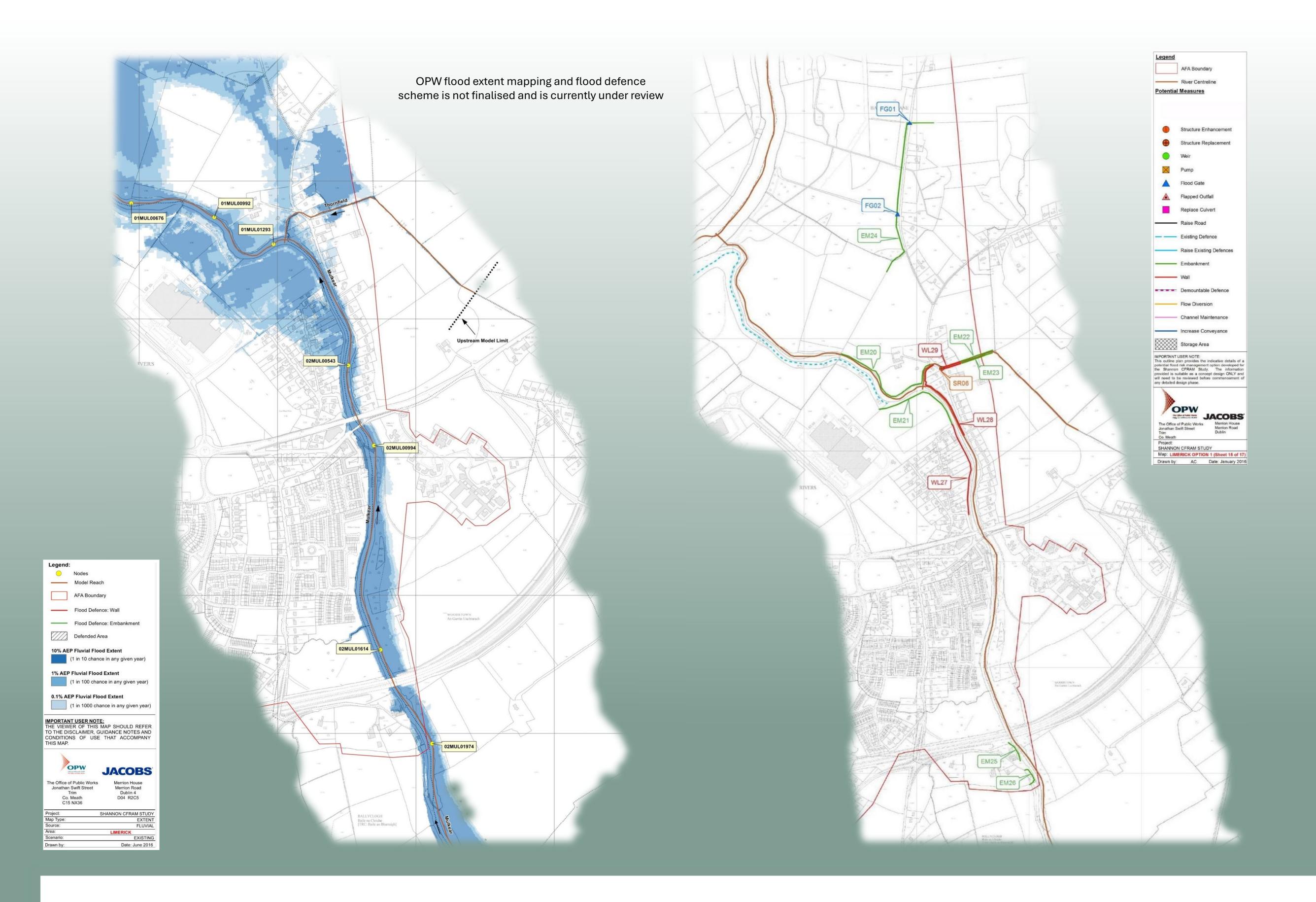
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Option H Retain Existing









Commentary

- scheme proposals are also under review by OPW.
- All options for Annacotty Weir result in no change to rate of flow passing downstream of the weir.
- water levels locally.
- All other options result in no negative impact on flood water levels.

Flood Risk Context

• The OPW has responsibility for leading and co-ordinating the implementation of the National Flood Policy which involves the development of a planned programme of feasible works, with a greater emphasis on non-structural flood risk management measures. The OPW carries out this role by coordinating the implementation of flood risk management policy and measures. • The OPW's flood extent mapping (published in 2016) is not finalised and is currently under review. The associated flood defence

• Option E (downstream rock ramp) occupies some of the existing channel downstream of the weir and results in a small increase is





