



DEPARTMENT OF THE ARMY
BALTIMORE DISTRICT, CORPS OF ENGINEERS
ATTN: REGULATORY BRANCH
2 HOPKINS PLAZA
BALTIMORE, MD 21201

Corps Permit Tracking No.

MDSPGP-6
ACTIVITY b (2)
Armoring Bridges, Causeways, and Culverts

The authorized Armoring Bridges, Causeways, and Culverts activities must comply with the following applicable activity specific conditions indicated by an "X" in the boxes below, all general conditions of this permit, and any project-specific special conditions.

This activity authorizes discharges of dredged or fill material associated with armoring or strengthening of bridges, causeways, and culverts, including excavation to construct a toe for placement of armoring for the purpose of protecting any previously authorized, currently serviceable bridge, causeway, or culvert. Any bank stabilization measures not directly associated with the structure will require a separate Corps authorization. This activity also authorizes temporary structures, work, and discharges of dredged or fill material necessary for associated construction activities or repairs, including but not limited to stream diversion devices, access fills, structures and/or fills for dewatering of construction sites, and placement of construction matting (Sections 10 and/or 404; all waters of the United States).

Category A Impact Limits and Requirements:

- (i) The total temporary and permanent impacts to all waters of the United States, which includes tidal and nontidal wetlands, streams, rivers, navigable waters, and other open waters, is limited to the minimum necessary to protect the structure or to ensure the safety of the structure and are not to exceed 10,000 square feet and/or 500 linear feet of streams, rivers, and other open waters.
- (ii) Discharge must not extend any further than 200 linear feet in any direction from the structure.

Category B Impact Limits and Requirements:

- (i) The single and complete project will result in no more than a total 0.5-acre loss of tidal and nontidal waters of the United States, to include stream channel, wetlands, and open waters and the loss of stream channel may not exceed 1,000 linear feet.
- (ii) Armoring must not extend any further than 500 linear feet in any direction from the structure.

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Requirements Applicable to Both Category A and Category B Activities:

- (i) Application must be submitted to MDE for Corps authorization.
- (ii) The armoring must be the minimum necessary to protect the structure or to ensure the safety of the structure.
- (iii) This activity does not authorize stream channelization or stream relocation projects.
- (iv) This activity does not authorize the construction of any dams or dikes unless used for temporary dewatering.
- (v) Material used (in order of preference) must be clean stone, broken concrete, or grout bags. If broken concrete is used for armoring, it must be clean and free of rebar or other protruding reinforcement.
- (vi) This activity does not authorize dredging for the primary purpose of navigation.
- (vii) The armoring material must not extend into a marked, lighted, charted, or Federal navigation channel.
- (viii) The activity is limited to the minimum necessary to protect the structure or to ensure the safety of the structure.
- (ix) The following conditions are applicable to perennial and intermittent Coastal Plain Streams (tidal and nontidal) in Maryland, and perennial and intermittent Piedmont streams in Cecil and Harford Counties:
 - a) Armoring and/or scour protection for bridges, arches, and culverts shall provide a low flow channel that will pass anadromous fish during the spring migratory season (February 15 - June 15). The low flow channels shall provide a flow depth not less than 12 inches, and never less than 8 inches during the spring migratory period. For armoring culverts of diameter equal to or less than 36 inches, flow depth in the low flow channel shall be comparable to depths in adjacent, undisturbed reaches of stream. Flow velocities in the low flow channel should also be comparable to flows in adjacent, undisturbed reaches of stream, as experienced during the spring migratory season. For projects where on-site conditions (e.g., design of the existing culvert or other crossing structure) limit the ability to construct a low flow channel with the latter specifications, the applicant shall submit a narrative, along with their application, documenting site conditions and limitations that prohibit compliance with these low flow channel specifications.
 - b) Armoring and/or scour protection for bridges, arches, and culverts that cannot be constructed with low flow channels in accordance with the requirements in (a) above, are not eligible for Category A and must be reviewed under Category B or alternate Corps permit review procedures, as appropriate. Project-Specific Special Conditions apply (See Corps verification letter for these conditions.)

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Project-Specific Special Conditions apply (See Corps verification letter for these conditions.)