

Road Crossings

Please respond to each question. Questions left blank may result in the application being returned as incomplete. In addition, the answers to all of the questions in this Appendix must correspond accurately to the information on the plan and section view drawings for the project.

General Information

1. Will the project be:

- New Construction
 Repair or Replacement of an Existing Structure

2. Describe the purpose for the proposed road crossing activity:

3. Is the crossing a:

- Bridge (preferred) Bottomless or Arched Culvert Pipe Culvert
 Box Culvert Multiple Barrel Culvert
 Other (describe) _____

If other than a bridge is proposed, could bridging be constructed to avoid impacts to the waterbody? Yes No If no, please provide specific justification:

4. If culvert pipes are proposed, provide the pipe lengths and diameters:

If a bridge, bottomless culvert or box culvert is proposed, provide the dimensions:

What will be the slope of the culvert?

5. What materials will the structure(s) be made of?

Waterbody Information

6. Name of the waterbody at the project location: _____
 Waterbody is a tributary to: _____

7. What is the width of the waterbody at the project site? _____

8. How many linear feet of stream will be affected by the crossing?
 Pipe _____ In ft. Inlet Structure _____ In ft. Outlet Structure _____ In ft.

9. What is the total area of impact in the waterbody? (including inlet and outlet protection structures, sideslope embankments, etc.):

Tidal Waters

Below the mean high water line ____ sq. ft.
 ft.

Below the mean low water line ____ sq. ft.

Non-tidal Waters

Below the Ordinary high water line ____ sq.

In tidal wetlands ____ sq. ft. (attach appropriate appendix)

10. For non-tidal waters, what is the approximate median stream flow rate at the site:

Before construction: _____ cfs

After construction: _____ cfs

What is the bankfull discharge (~1 yr storm) of the stream at the site? _____ cfs

11. What is the watershed area above the project site? _____ (acres or square miles)

12. If the road crossing is not over undeeded public subaqueous lands or a DelDOT right of way, who is the owner of the underwater lands? _____ -

13. Please include evidence of written permission from the underwater landowner indicated above (if other than the applicant) with this Appendix.

Design Features

14. Describe design features that will be incorporated to allow for fish passage:

15. Describe design features that will maximize the preservation of natural channel features and minimize adverse impacts to stream morphology and stability:

16. If culvert pipes are proposed:

Will the pipe bottom be buried below the natural streambed? Yes No
If yes, how far will the pipe invert be placed below the streambed elevation? _____ inches
If no, explain why:

For multiple barrel culvert designs, will a low flow barrel be incorporated?
 Yes No
If no, explain why:

17. What storm event is the structure designed to pass? (i.e. 10 yr storm, 25 yr storm)

18. Will the structure include an apron or other inlet/outlet protection? Yes No
If yes, describe the dimensions and materials that will be utilized:

19. Is any fill associated with the proposed activity? Yes No If yes, attach the appropriate appendix.

20. Will any sideslope embankments be constructed in the waterbody? Yes No
If yes, what is the average slope of the embankments? _____

21. Will any utilities be associated with the road crossing? Yes No
If yes, attach the appropriate appendix.