

Pre-Design Reports (Pre-scoping)

Overview

- In general, the procedure for completing PDRs will remain unchanged. The biggest change is that NCDOT Staff and PEFs will use the new PDR.pdf cover page when submitting the PDRs. Hydro personnel will then transfer the data on these completed reports to the Predesign database.
- Only add data to the fields, do not alter any other features.
- Checking a checkbox signifies that the field is true
- The completed cover page will be saved with no attachments and submitted as part of the PDR package.

EXAMPLE Only (data not accurate)

County: **Cleveland** Stream: **GRASSY BRANCH**

Road #: **SR 1504** Road Name: **SHOFFORD LAKE RD**

Division: **12** Location: **.04 MI S OF SR 1509**

Latitude: **35.43081** Longitude: **81.60464** Decimal degrees, a min of 5 decimal points

Assigned to: **Private Engineering Firm Name (Choose from Dropdown Menu)**

Prepared By: **Your Name Here**

Hydro Mgr: **PFF** Hydro Reviewer: **MTS**

Project Type: **B-9999, Design Build**

Responses for red outlined fields are available from dropdown menus

Existing Structure

Structure Type: **Timber Deck/ I Beams** Yr Built: **1955**

Span Arrangement: **2 @ 30'** OAL (ft): **60.0** Skew: **90** Abutment Type: **Sloped-2:1**

Number of Barrels: @ Span (ft): x Rise (ft):

Bed to Crown (ft): **13.0** Clear Roadway (ft): **18.0** Water Depth (ft) **1.0** Superstructure Depth: **2**

ADT: **300** Year ADT: **2013** Scour Code (item113): **8** Prior Survey Completed: Survey Date: **09/05/2002**

Drainage Area: **3.1** **Sq. Mi.** Drainage Area Source: **USGS Stream Stats** Roadway Overtops at Q100:

Discharge Method: **USGS Regression Equations** USGS Region: **1- Piedmon** Stream Gage Number(if applicable): **456954**

Q10 (cfs): **400** Q25 (cfs): **1,050** Q50 (cfs): **1,300** Q100 (cfs): **1,500** QBFE (cfs): **1,457**

Structure in Flood Hazard Zone Panel #: **2622** Panel Date: **02/20/2008** Type of FIS: **LIMITED** Date of FIS: **02/20/2008**

Environmental

Quad Map: **ALARKA, NC** River Basin: **Broad** Buffer Rule: **NA**

Primary Stream Classification

Class B Class C SA SB

SC SWL WL WS I

WS II WS III WS IV WS V

Supplemental Stream Classification

FWS HQW NSW ORW

Sw Tr UWL w/in 0.5mi. of CA

Other Stream Classification

Anadromous Fish Area of Environmental Concern

CAMA County Federal Wild & Scenic Rivers

HSB Required NC Natural & Scenic Rivers

Impaired [303d] Primary Nursery Area

TVA Designated Shellfish Harvesting Area

Designated Public Mountain Trout Waters

Up/Down Stream Features

Upstream Feature: **Culvert** Structure Type: **CMP**

Location: **0.3 MI S OF SR 1509**

Structure #: **220221** Route: **SR 1505**

Latitude: **35.40235** Longitude: **81.65878**

Prior Survey Completed: Survey Date: Bed to Crown (ft): **7.0** Year Built: **1995**

Span Arrangement: OAL (ft):

Number of Barrels: **2** @ Span (ft): **83.0** x Rise (ft): **57.0**

Downstream Feature: **Confluence w/ Stream(s)** Structure Type:

Location:

Structure #: Route:

Latitude: Longitude:

Prior Survey Completed: Survey Date: Bed to Crown (ft) Year Built:

Span Arrangement: OAL (ft):

Number of Barrels: @ Span (ft): x Rise (ft):

Preliminary Structure Estimate [Office Estimate]

Structure Type: **Cored Slab** Skew: **90**

Dimensions/Spans: **2@35'**

Notes

Stream gage 5ft downstream