

**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION**  
**FIELD SCOPING MEETING WORKSHEET**  
**Design Build Process**

WBS No.: **17BP.7.R.86**

Field Scoping Meeting Date: **Feb. 19, 2014**

Division: **7**

Location: **On-site**

Route (US/NC/SR): **SR1127**

County: **ORANGE**

Project Description: **Bridge No. 670075 over NEW HOPE CREEK on SR1127 (Borland Rd)**

Tier: **Sub-Regional**

Municipality: **No**

**Attendees**

|                             | <b>Name</b>           | <b>Phone No.</b>    | <b>E-mail</b>                      |
|-----------------------------|-----------------------|---------------------|------------------------------------|
| Division Bridge Manager     | <b>Tim Powers</b>     | <b>336-487-0000</b> | <b>tpowers@ncdot.gov</b>           |
| Division Environmental Off. | <b>Jerry Parker</b>   | <b>336-256-2063</b> | <b>jparker@ncdot.gov</b>           |
| Hydraulics Engineer         | <b>Bill Elam</b>      | <b>919-707-6718</b> | <b>belam@ncdot.gov</b>             |
| Hydraulics Engineer         | <b>Galen Cail</b>     | <b>919-707-6711</b> | <b>gcail@ncdot.gov</b>             |
| TPMU                        | <b>Pam Williams</b>   | <b>919-707-6608</b> | <b>prwilliams@ncdot.gov</b>        |
| TPMU                        | <b>Tom Bacon</b>      | <b>919 707-6607</b> | <b>tabacon@ncdot.gov</b>           |
| Bridge Management           | <b>Paul Garrett</b>   | <b>919-707-6457</b> | <b>pgarrett@ncdot.gov</b>          |
| SEPI                        | <b>Nicole Thomson</b> | <b>336-334-3515</b> | <b>Njthomson2@ncdot.gov</b>        |
| DENR-DWR                    | <b>Dave Wanucha</b>   | <b>336-771-4951</b> | <b>Dave.wanucha@ncdenr.gov</b>     |
| Division 7                  | <b>Aaron Carr</b>     | <b>513-485-2952</b> | <b>aacarr@ncdot.gov</b>            |
|                             |                       |                     |                                    |
| USFWS                       | <b>Gary Jordan</b>    |                     | <b>Not present – sent comments</b> |
| USACE                       | <b>David Bailey</b>   |                     | <b>Not present – sent comments</b> |
| NCWRC                       | <b>Travis Wilson</b>  |                     | <b>Not present – sent comments</b> |

## **Existing Features**

Feature Bridged: **670075** over **NEW HOPE CREEK on SR1127 (Borland Rd)**

Ex. Bridge Clear Deck Width: **19 (Ft.)** Roadway width: **18 (Ft.)**

(Bridge / Culvert) Length: **36 (Ft.)** Deck Width (Out To Out): **19.8 (Ft.)**

Water Depth: **1(Ft.)** Height Bed-To-Crown: **10(Ft.)**

Year Built: **1954** Posted: SV **16** TTST: **24**

Superstructure: **TM M-BM ;** Abutment: **TM** Pier Type: **TM**

Temp. Shored: **Yes**

Historic High Water (Elev. To The Existing Structure ): **(Ft)**

PRI: **53.0** DP: **0.5** SR: **21.5** School Bussing crossings per day:

Posted Speed Limit Vicinity: **45** (mph)

Detour Off-Site ☒ Stage Construction ☐ New Alignment ☐ On-site ☐

If Off-Site, Description Of Detour Route: **SR 1113 (Arthur Minnis Road) to SR 1009 (Old NC 86) to SR 1129 (Davis Road) to SR 1006 (Orange Grove Road) to SR 1128 (Kimbrow Road)**

Approximate Length Of Detour? **7.2miles**

Improvements Needed To Road(s) On Detour? **No**

Div. Traffic Eng. Recommend Off-site detour signing? **Trailblazing with Street/Road names**

Improvements Needed To Bridges On Detour? **No**

Are Bridges On Detour Currently Programmed? **670077 is on detour**

Are There EMS Or Business Access Issues? **No**

Are There Any Railroad Crossings On Detour? **No**

Should Work Zone Pedestrian Access Be Maintained During Construction? **No**

Overhead Utility Lines ~~In-Conflict~~ **No**

Power Transmission Lines ~~In-Conflict~~

Telephone ~~In-Conflict~~ **No**

Cable Lines ~~In-Conflict~~

Fiber Optic ~~In-Conflict~~

Water ~~In-Conflict~~

Sewer ~~In-Conflict~~

Natural Gas ~~In-Conflict~~

Other ~~In-Conflict~~

Based On The Past History Near This Project Site, What Is The Estimated Time Required To Complete Utility Adjustments **0 Months**

Is There Any Future Utility Construction Anticipated In The Project Area **No**

Is A FEMA Buy-Out Property Being Impacted **No**

## **Environmental**

Wetlands At Site      **No**

Comments:

Endangered Species In County: **Not nearby**

T&E species effect: **No habitat and No Effect for Bald Eagle and Michaux sumac; Habitat and No Effect for Smooth Coneflower / dwarf wedgemussel**

Trout County : **No**

TVA County: **No**

CAMA County; **No**

Primary Nursery Area: **No**

Moratoria: **No**

Which species:

Duration :

Permits:

Water Quality Classification: **WS-V, NSW**

303d: **No**

Coast Guard Permit? **No**

Drainage Basin: **Cape Fear**

Riparian Buffer Rules: **Yes Jordan**

Is The Project Site In Or Near Any Of The Following:

National Forest; **No**

Wildlife Refuge ; **No**

State, County, Or Local Park ; **No**

Wild And Scenic River ; **No**

Airport; **No**

Recreation Of Power Generation **No**

Water Supply Reservoir; **No**

Nutrient Sensitive Waters; **Yes**

Public Use Boat Ramp; **No**

Cemeteries ; **No**

Known Or Potential Historic Properties In The Area:

**Architecture; No Survey Required**

**Archaeology; No Sites Present**

Is The Bridge Structure Itself, Or Any Part Thereof, Considered Historic: **No**

Impacts to a Church, Community Center, Or Other Public Facility? **No**

Is this a Statewide Bicycle Route or a Local Non-Marked Bicycle Route: **No, request 2-3' offset to provide connectivity to adjacent NC Bike Route**

Comments:

## **Geotechnical**

Are There Any Historical And/Or Vibration Sensitive Structures Near By      Comments:

Are There Any Known Landfills And / Or Geo-environmental Hazard Sites At Or Within Close Proximity To The Project Site -----      Comments:

Are Any Impacts Anticipated To Natural Springs Or Artesian Wells:      Comments:

Possible Foundation Type: @ **End Bents**

@ **Interior**

## Hydraulics

FEMA Approval? **No** State Stormwater Permit? **No**  
Is There Unusual Scour Potential? **No** Is Protection Needed?  
Are Banks Stable? **Yes** Is Protection Needed?  
Appreciable Amount Of Large Debris? **Moderate**  
Placement Of Bents In The Water Be Allowed: **No** Where:  
Superstructure Type: **Bridge** If Bridge: **CS** If girder; why?  
Length Of Structure: **70 feet** Min. Number Of Spans: **1** Span Arrangement:  
Waive offset: **Yes** Cap: **4'** Skewed: **No**

**Remove interior bent down to rock line. Leave concrete footer on east side and remove footer on west side**

## Items To Be Discussed / Resolved At FSM By Attendees

Off-Site Detour ☒ Stage: ☐ New Alignment: ☐ On-site detour ☐

Environmental Document Prepared by DBE: Low Impact Data Spreadsheet ☒ Minimum Criteria Checklist ☐

ADT: **900 / SIR** NHS: **0** Tier: **Sub-Regional** Func. Class: **Local**

Bridge Min. Clear Deck Width Recommended by Div.: **30'** **OTO**

Roadway lane width **\_10\_'** with **\_3\_'** shoulders

Extension of Paved shoulders: **No paved shoulders**

Pave to face of guardrail and taper 8:1 to travel lane/paved shoulder? **Yes**

Min. Pavement Surface Course: **2-1/2"** inches: Existing Roadway: **17' Paved**

Pavement Marking: **Thermoplastic** Pavement markers: **None**

Will Railroad Involvement Be Required: **No** Method of Clearing: **II**

Truck Percentage: : **6 % per BIR;** Reasonable Safe Speed per SIR: **45 mph**

Liquidated damages: will be imposed after **90** days of closure/construction. Amt: \$ **350** per day

CEI by? **NCDOT** R/W by? **Division ROW** R/W monuments? **Conc.**

Salvageable materials: **No**

Contact Person/number:

Deliver to:

Removal of previous structure remnant abutments/piers: **No**

Sequencing priority in construction? **Build 670075 first, build 670077 immediately following.**

Comments:

