

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): **SR1113**

County: **ORANGE**

Project Description: **Bridge No. 670077 over NEW HOPE CREEK on SR1113 (Arthur Minnis Rd)**

Tier: **Sub-Regional**

Municipality: **No**

Attendees

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

Existing Features

Feature Bridged: **670077 over NEW HOPE CREEK on SR1113 (Arthur Minnis Rd)**

Ex. Bridge Clear Deck Width: **25 (Ft.)** Roadway width: **20 (Ft.)**

(Bridge / Culvert) Length: **36 (Ft.)** Deck Width (Out To Out): **26 (Ft.)**

Water Depth: **1(Ft.)** Height Bed-To-Crown: **9(Ft.)**

Year Built: **1954** Posted: SV **20** TTST: **30**

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

Temp. Shored: **0**

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

PRI: **28.0** DP: **0** SR: **54.4** School Bussing crossings per day:

Posted Speed Limit Vicinity: **50** (mph)

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

If Off-Site, Description Of Detour Route: **SR 1127(Borland Road) to SR 1102 (Dobsons Crossroads) to SR 1177 (Dairyland Road)**

Approximate Length Of Detour? **6.4 miles**

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? **Yes, build 670075 first**

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 **Yes**

Power Transmission Lines

Telephone **Yes**

Cable Lines

Fiber Optic

Water

Sewer

Natural Gas

Other

Based On The Past History Near This Project Site, What Is The Estimated Time Required To Complete Utility Adjustments **6 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 **Yes outside of project area** Comments:

Endangered Species In County: **Not nearby** [red cocaded woodpecker, dwarf wedgemussel, Michaux's sumac, smooth coneflower]

T&E species effect: **No Effect**

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 ;

Known Or Potential Historic Properties In The Area:

Architecture; No Historic Properties

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: **Yes, State Bike Route No. 2, use vertical face rail due to short bridge and 4 foot paved shoulder/offset on both sides**

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? **Moderate**

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: **55 feet** Min. Number Of Spans: **1**

Span Arrangement:

Waive offset: **Yes**

Cap: **4'**

Skewed:

Leave concrete mud sills on both abutments. Fill scour hole under bridge on west side with Class II rip-rap to natural flood plain. Leave all concrete footers in.

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: **2500 / SIR**

NHS: **0**

Tier: **Sub-Regional**

Func. Class: **Local**

Bridge Min. Clear Deck Width Recommended by Div.: **33' OTO**

Roadway lane width **_11_'** with **_6_'** shoulders including **_4_'** paved shoulders

Extension of Paved shoulders: end of **construction limits**

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: **19' 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: **55 mph [5 mph over posted]**

Liquidated damages: will be imposed after **_90_** days of closure/construction. Amt: **\$ 500** per day

LD's high due to high ADT

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? **670075 to be built first, 670077 immediately following.**

Comments:

