

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

FIELD SCOPING MEETING WORKSHEET

Return with Comments to Division by 10/6/09 (Two weeks prior to FSM)

TIP No.: **B-4738**

FIELD SCOPING MEETING DATE: 10/21/09

DIVISION: **6**

LOCATION: Onsite

COUNTY: **Cumberland**

ROUTE (US / NC / SR): **SR 1137**

PROJECT DESCRIPTION: **Replace Bridge 189 over Buckhead Creek on SR 1137**

FUNCTIONAL CLASSIFICATION: **Local**

TIER: **Subregional**

MPO / RPO AREA: **FAMPO**

MUNICIPALITY: **Hope Mills**

ATTENDEES	NAME (PRINT)	PHONE No	E-MAIL
DIVISION CONSTRUCTION ENGINEER	Tracey Pittman	910-486-1493	tpittman@ncdot.gov
AREA BRIDGE CONSTRUCTION ENGINEER	Aaron Earwood	919-562-7000	aeearwood@ncdot.gov
DIVISION BRIDGE MAINTENANCE ENGINEER	Sonny Upole	910-829-6345	lupole@ncdot.gov
UTILITY COORDINATOR	Lee Johnson	919-250-4128	leejohnson@ncdot.gov
DIVISION ENVIRONMENTAL OFFICER	Jim Rerko	910-437-0207	jjrerko@ncdot.gov
DIVISION RIGHT OF WAY REPRESENTATIVE			
HYDRAULICS REPRESENTATIVE	Galen Cail	919-250-4100	gcail@ncdot.gov
PDEA REPRESENTATIVE	Greg Blakeney	919-850-2719	gmblakeney@ncdot.gov
NEU REPRESENTATIVE	Chris Manley	919-431-6746	cdmanley@ncdot.gov
GEOTECHNICAL REPRESENTATIVE			
STRUCTURE DESIGN REPRESENTATIVE	Omar Azizi	919-250-4066	oazizi@ncdot.gov
ROADWAY DESIGN REPRESENTATIVE	Sam St.Clair	919-250-4016	sstclair@ncdot.gov
LOCATION AND SURVEYS REPRESENTATIVE	Keith Honeycutt	919-266-4078	khoneycutt@ncdot.gov
WORK ZONE TRAFFIC CONTROL REPRESENTATIVE			

OTHER ATTENDEES	Department/Unit	PHONE No	E-MAIL
Tim Coggins	Structure Design	919-250-4068	tcoggins@ncdot.gov
John Kaukola	Location & Surveys	910-486-1338	jkaukola@ncdot.gov
Emily Murray	Structure Design	919-250-4067	emurray@ncdot.gov
Bryan Kluchar	PDEA	919-850-2713	bdkluchar@ncdot.gov
Tracy Walter	PDEA	919-850-2716	twalter@ncdot.gov

DIVISION (COMPLETED BY DIVISION STAFF AND SENT WITH THE FSM LETTER)**EXISTING FEATURES**FEATURE BRIDGED: **Bridge 189 spans Buckhead Creek**(BRIDGE / CULVERT) LENGTH **36 (FT.)**DECK WIDTH (OUT TO OUT) **25.3 (FT.)**WATER DEPTH: **3.0 (FT.)**HEIGHT BED-TO-CROWN: **10 (FT.)**PRIOR SURVEY DATE: **11/28/07**POSTED: SV **19** TTST: **28**STRUCTURE TYPE: **Timber, with crutch bents**SPAN TYPE: **Girder**HISTORIC HIGH WATER (ELEV. TO THE EXISTING STRUCTURE): **(FT)**SUFFICIENCY RATING: **42.93**POSTED SPEED LIMIT IN PROJECT VICINITY: **45 (MPH / STATUTORY 55MPH)**DETOUR: OFF-SITE **YES** ON-SITE ----- STAGE CONSTRUCTION -----

IF DETOUR IS OFF-SITE, PROVIDE DESCRIPTION OF DETOUR ROUTE

County	Structure No.	Route	Detour Routes
Cumberland	250189	SR 1137	E-W: SR 1003 – NC 162 – SR 1135
			W-E: SR 1135 - SR 1141 - SR 1344 - SR 1003

APPROXIMATE LENGTH OF DETOUR? **5 (MILES)**IMPROVEMENTS NEEDED TO ROAD ON DETOUR? **No**IMPROVEMENTS NEEDED TO BRIDGES ON DETOUR? **N/A**ARE BRIDGES ON DETOUR CURRENTLY PROGRAMMED ON TIP? **N/A** COMMENTS:ARE THERE EMS, SCHOOL , OR BUSINESS ACCESS ISSUES? **YES** COMMENTS: **School bus route**ARE THERE ANY RAILROAD CROSSINGS ON DETOUR? **NO** COMMENTS:SHOULD WORK ZONE PEDESTRIAN ACCESS BE MAINTAINED DURING CONSTRUCTION? **NO**REASONS: **during field visit, observed several people walking and bicycling across bridge, convenience store nearby**IMPACT RATING TO UTILITIES **HIGH**OVERHEAD UTILITY LINES **YES** IN CONFLICT **YES**POWER TRANSMISSION LINES **NO** IN CONFLICT **NO** **PWC 3 Phase Power**TELEPHONE / CABLE LINES **YES** IN CONFLICT **YES**FIBER OPTIC **YES** IN CONFLICT **YES**WATER **YES** IN CONFLICT **YES** **AC Waterline**

SEWER ----- IN CONFLCIT -----

NATURAL GAS **YES** IN CONFLICT -----

OTHER IN CONFLICT -----

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**

HYDRAULICS UNIT (COMPLETED BY HYDRAULICS UNIT STAFF PRIOR TO THE FSM)WILL THIS PROJECT REQUIRE A FEMA PERMIT? **YES**IS THERE UNUSUAL SCOUR POTENTIAL? **NO** IS PROTECTION NEEDED? **YES**ARE BANKS STABLE? **Yes** IS PROTECTION NEEDED? **No**DOES STREAM CARRY APPRECIABLE AMOUNT OF LARGE DEBRIS? **No**WILL THE PLACEMENT OF BENTS IN THE WATER BE ALLOWED **Yes** COMMENTS **Existing 2 span**WERE HYDRAULIC ALTERNATIVES BESIDES A BRIDGE CONSIDERED **No** COMMENTS **DA = 8.0 sq mi**POSSIBLE SPAN LAYOUT: **70' - 2 spans - 2'-6" end bent caps - 90 degree skew****GEOTECHNICAL UNIT** (COMPLETED BY GEOTECHNICAL UNIT PRIOR TO THE FSM)EXISTING FOUNDATION REPORTS? **No** IF SO, ATTACH.KNOWN GEOLOGICAL FEATURES IN AREA WHICH MAY AFFECT DESIGN **None**ARE PERMITS NEEDED FOR INVESTIGATIVE WORK AT SITE **No** COMMENTS:ARE THERE ANY HISTORICAL AND / OR VIBRATION SENSITIVE STRUCTURES NEAR BY **No** COMMENTS:ARE THERE ANY KNOWN LANDFILLS AND / OR GEOENVIRONMENTAL HAZARD SITES AT OR WITHIN CLOSE PROXIMITY TO THE PROJECT SITE **No** COMMENTS:DEPTH OF WEATHERED ROCK OR ROCK BELOW STREAMBED **Not found (deep) (FT.)**ARE ANY IMPACTS ANTICIPATED TO NATURAL SPRINGS OR ARTESIAN WELLS **No** COMMENTS:POSSIBLE FOUNDATION TYPE: **Pile Bents****TRAFFIC SAFETY UNIT** (COMPLETED BY TRAFFIC SAFETY UNIT PRIOR TO FSM)OPERATING SPEED: **MPH**

CRASH RATE:

PD & EA AND NEU UNIT (COMPLETED BY PDEA STAFF PRIOR TO THE FSM)

TRAFFIC FORECAST (AS PREPARED BY TRANSPORTATION PLANNING BRANCH AND PROVIDED BY PDEA)

-L- BASE YEAR (2018) ANNUAL AVERAGE DAILY TRAFFIC 5520 % TRUCKS/DUALS 1/3

-L- DESIGN YEAR(2035) ANNUAL AVERAGE DAILY TRAFFIC 6500 % TRUCKS/DUALS 1/3

SHOW -Y-LINE TRAFFIC IF APPLICABLE FOR BRIDGES OVER / UNDER.

-Y- BASE YEAR (20) ANNUAL AVERAGE DAILY TRAFFIC % TRUCKS/DUALS

-Y- DESIGN YEAR (20) ANNUAL AVERAGE DAILY TRAFFIC % TRUCKS/DUALS

WETLANDS AT SITE **Yes** COMMENTS: **There are 0.40 ac of Riparian wetlands in the project study area..**KNOWN ENDANGERED SPECIES POPULATIONS IN AREA **No** COMMENTS:TROUT OR TVA COUNTY **No** COMMENTS:CAMA COUNTY **No** PRIMARY NURSERY AREA -----MORATORIA **No** IF YES-DURATION

COMMENTS:

IS WATER FEATURE CLASSIFIED AS A WILD AND SCENIC RIVER **No** COMMENTS:

WHAT IS THE WATER QUALITY CLASSIFICATION FOR THIS PROJECT: C

WILL A COAST GUARD PERMIT BE REQUIRED **No** COMMENTS:

IS THE PROJECT SITE IN OR NEAR ANY OF THE FOLLOWING:

NATIONAL FOREST **No**WILDLIFE REFUGE **No**STATE, COUNTY, OR LOCAL PARK **No**AIRPORT **No**A LAKE FOR RECREATION OR POWER GENERATION **No**WATER SUPPLY RESERVOIR **No**NUTRIENT SENSITIVE WATERS **No**PUBLIC USE BOAT RAMP **No**CEMETARIES **No**WILL A FEDERAL ENERGY REGULATORY COMMISSION PERMIT BE REQUIRED **No**

IS THE PROJECT AREA KNOWN FOR POTENTIAL INDIAN, COLONIAL, OR OTHER ARCHAEOLOGICAL SITES

NoKNOWN OR POTENTIAL HISTORIC PROPERTIES IN THE AREA **No**IS THE BRIDGE STRUCTURE ITSELF, OR ANY PART THEREOF, CONSIDERED HISTORIC **No**WILL THE PROJECT IMPACT A CHURCH, COMMUNITY CENTER, OR OTHER PUBLIC FACILITY **No**IS THIS PROJECT ON A STATEWIDE BICYCLE ROUTE OR A LOCAL NON-MARKED BICYCLE ROUTE **None**

ANY CLARIFICATION OR COMMENTS ON ITEMS ABOVE:

ROADWAY DESIGN UNIT (COMPLETED BY ROADWAY DESIGN UNIT PRIOR TO FSM)ALIGNMENT: EXISTING HORIZONTAL **Good**EXISTING VERTICAL **Good**POSSIBLE DESIGN STANDARDS **Subregional Tier**POSSIBLE DESIGN SPEED **55 (MPH)**POSSIBLE DESIGN EXCEPTIONS **No** COMMENTAPPROXIMATE PROJECT LENGTH **350 (FT)** NUMBER AND WIDTH OF LANES **2 @ 12 ft**SHOULD THIS PROJECT HAVE CURB AND GUTTER OR SHOULDER APPROACHES **Shoulders**
COMMENTTOTAL SHOULDER WIDTH **6 (FT)** PAVED SHOULDER WIDTH **4 (FT)**CLEAR ROADWAY ON STRUCTURE **36' out to out (FT)**WILL EXISTING DRIVEWAYS, BUSINESS ACCESS, -Y- LINES OR RAMPS NEED TO BE RELOCATED **Possibly**
COMMENTS: **Private drive in SE quadrant**IS THERE ADDITIONAL RIGHT OF WAY / PERMANENT EASEMENTS / TEMPORARY EASEMENTS ANTICIPATED
FOR CONSTRUCTION ----- COMMENTARE ANY RETAINING WALLS ANTICIPATED **No**IS THERE A POSSIBILITY OF RELOCATEES **No** IF SO, DESCRIBE

ADDITIONAL COMMENTS:

STRUCTURE DESIGN UNIT (COMPLETED BY THE STRUCTURE DESIGN UNIT PRIOR TO THE FSM)POSSIBLE SUPERSTRUCTURE: **w/ OFFSITE DETOUR**TYPE: **CS or BB**NUMBER OF SPANS **2** LENGTH OF SPANS **40-30 (FT)**WILL RAILROAD INVOLVEMENT BE REQUIRED **No**WILL STRUCTURE REQUIRE DESIGN FOR VESSEL IMPACT OR FENDER SYSTEM **No**

DESCRIPTION:

ARE ANY RETAINING WALLS ANTICIPATED **No**ADDITIONAL COMMENTS: **Top down construction can be used, Foundation Type Piles. End bent set back to avoid existing abutments and interior bent to be set 5 feet from existing interior bent.**

CONSTRUCTABILITY AND ACCESS (DISCUSSED AT THE FSM BY DIVISION BRIDGE MANAGER)

METHOD OF ACCESS:

TOP-DOWN

(WORK BRIDGE / CAUSEWAY) PROPOSED LOCATION RELATIVE TO EXISTING STRUCTURE:

PROPOSED LENGTH (FT) WIDTH (FT)

MATERIAL AND EQUIPMENT ACCESS TO SITE:TRACTOR-TRAILER ACCESS **Yes** BARGE ACCESS ----- HEAVY EQUIPMENT ACCESS **Yes**POSTED ROADS AND POSTED BRIDGES IN VICINITY THAT MAY AFFECT ACCESS **No**ARE CONSTRUCTION STAGING AREAS AVAILABLE NEAR SITE **No**ANY ANTICIPATED AREAS OF TEMPORARY SHORING REQUIRED **No**

ADDITIONAL COMMENTS:

ITEMS TO BE DISCUSSED / RESOLVED AT FSM BY ATTENDEES

ALTERNATIVES TO BE STUDIED BY ROADWAY DESIGN (CHECK ALL THAT APPLY)

OFF-SITE DETOUR ☒ON-SITE DETOUR ☐NEW LOCATION ☐CHECK ONE

TYPE OF ENVIRONMENTAL DOCUMENT (CHECK ONE)

CATEGORICAL EXCLUSION (CE) ☐PROGRAMMATIC CATEGORICAL EXCLUSION (PCE) ☒

THE OPTIMUM LET DATE FOR THIS PROJECT IS:

ADDITIONAL COMMENTS AND/OR UNRESOLVED ISSUES TO BE ADDRESSED: