

# HIGHWAY BRIDGE SCOUR PLAN OF ACTION REPORT



BRIDGE ID NUMBER: **790A1350001**  
 BRIDGE OWNER: **SHELBY COUNTY**  
 ROAD NAME: **BRUNSWICH RD**  
 CROSSING: **W BEAVER CREEK**  
 LATITUDE: **N 35.39639 DEGREES**  
 LONGITUDE: **W 89.72333 DEGREES**

COUNTY: **SHELBY**  
 ROUTE: **0C025**  
 SPECIAL CASE: **0**  
 COUNTY SEQUENCE: **1**  
 LOG MILE: **0.94**  
 YEAR BUILT: **1977**

## TYPE OF SUPERSTRUCTURE

MAIN SPAN: **PRESTRESSED CONCRETE - BOX BEAM OR GIRDERS - MULTIPLE**      APPR. SPAN: **NOT APPLICABLE**

## TYPE OF SUBSTRUCTURE

ABUTMENTS: **CONCRETE STUB ABUTMENT ON CONCRETE PILE FOUNDATION**  
 BENTS: **CONCRETE COLUMN FOUR OR MORE POST BENT ON PILE FOUNDATION**  
 PIERS: **NOT APPLICABLE**

## SCOUR EVALUATION

Bridge has unknown foundations. Risk of scour cannot be determined. The bridge shall be monitored for distress during significant flood events. Rip-rap protection has been installed and is in fair condition. Some minor repairs to the protection system are needed.

## INSPECTION PROCEDURES

What Initiated the Call-out Inspection?     BridgeWatch Alert  
      TDOT District or Local Maintenance Personnel  
      THP or Local Law Enforcement Personnel  
      Other: \_\_\_\_\_

### Things to check on a bridge during floods:

- Span movement - horizontally as well as vertically
  1. Check displacement / deflection along curb line, both bridge rails and outer edge of bridge deck.
  2. Check for plumb of piers or bents.
- Check for embankment erosion
- Check for drift build-up on piers or bents
- Check pier exposure, if possible, and compare to previous inspection
- Review the latest bridge inspection report versus current field conditions

### If Closure is recommended:

- Stay at bridge with vehicle pulled across road until bridge is secured and properly closed by District, County or City Maintenance Personnel. Use Barricade Tape, traffic cones and/or traffic flares as temporary measures to warn motorists to stay off of the bridge until such time as the bridge may be properly closed and barricaded.
- Contact: (1) District Maintenance Supervisor ( if bridge is State maintained )  
     (2) City or County Highway Maintenance Official ( if bridge is not State maintained )  
     (3) Tennessee Highway Patrol and/or local law enforcement Officers as appropriate  
     (4) TDOT Regional Bridge Engineer
- The Bridge should remain closed until the water recedes and a daylight visual inspection is made by a TDOT bridge inspection team.

**PUBLICATION DATE**

**07-Nov-24**

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- [ ] - The bridge inspection team will work with State District maintenance or local highway maintenance officials in establishing a detour route. Any bridge on the selected detour route shall be checked prior to signing the detour route.
- [ ] - The bridge can be re-opened only after a TDOT bridge inspection team checks the substructure units and they are determined to be structurally stable.

CONTACT PERSONNEL:

TELEPHONE NUMBER:

COUNTY MAYOR'S OFFICE

(901) 545-4500

HWY. CHIEF ADMINISTRATOR'S OFFICE

(901) 379-4414

PUBLIC WORKS DIRECTOR

(901) 545-4266

COUNTY SHERIFF'S OFFICE

(901) 545-5500

- [ ] - Summarize and submit findings from the inspection to BridgeWatch scour monitoring system. The report shall include the date and time of the inspection, a brief summary of findings and, as appropriate, photographs of the bridge and stream channel measurements. If significant scouring has occurred, the report shall also be copied to Bridge Inspection Headquarters.

**COMMENTS:**

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**Suggested List of Equipment to conduct the Inspection:**

Latest Bridge Inspection Report

Scour POA Report with the above Checklist

Bridge Design Plans, if available

Tape measure with weight

Plumb bob

Range Pole

A 1000 Foot Roll of yellow Polyethylene Barricade Tape printed with the following message:

**SAFETY HAZARD KEEP AWAY**

A Barricade Tape Dispenser with serrated cutter

A roll of Duct Tape

Traffic Cones - Minimum of four (4)

Traffic Safety Flares - Minimum of four (4) or set of electronic warning flashers

TDOT two-way radio (State Personnel only) and/or cellular telephone

TDOT radio directory (State Personnel only)

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