

# HIGHWAY BRIDGE SCOUR PLAN OF ACTION REPORT

BRIDGE ID NUMBER: **38I00400031**BRIDGE OWNER: **STATE OF TENNESSEE**ROAD NAME: **I40**CROSSING: **HATCHIE RIVER**LATITUDE: **N 35.52403 DEGREES**LONGITUDE: **W 89.25947 DEGREES**COUNTY: **HAYWOOD**ROUTE: **I0040**SPECIAL CASE: **0**COUNTY SEQUENCE: **1**LOG MILE: **12.08**YEAR BUILT: **1962**

## TYPE OF SUPERSTRUCTURE

MAIN SPAN: **CONCRETE CONTINUOUS - TEE BEAM**APPR. SPAN: **NOT APPLICABLE**

## TYPE OF SUBSTRUCTURE

ABUTMENTS: **CONCRETE STUB ABUTMENT ON CONCRETE PILE FOUNDATION**BENTS: **CONCRETE PILE BENT ON PILE FOUNDATION**PIERS: **CONCRETE COLUMNS WITH SOLID WEB WALL (DUMB BELL) ON CONCRETE PILE FOUNDATION**

## SCOUR EVALUATION

Bridge is scour critical; bridge foundations determined to be unstable for calculated scour conditions. Rip-rap protection has been installed and is in good condition.

## 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

17-Apr-19

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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:**

REGION BRIDGE ENGINEER

(731) 234-9561

DISTRICT MAINTENANCE SUPERVISOR

(731) 694-6673

TENNESSEE HIGHWAY PATROL

(901) 543-6256

- [ ] - 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:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**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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