

THE TWEETSIE TRAIL

CLIENT:

City of Johnson City

LOCATION:

Johnson City, Tennessee

PROJECT TIME FRAME:

2013 thru 2014

CONSTRUCTION COST:

\$120,000

FUNDING:

Private

PROJECT TEAM:

Thomas O. Patton Jr., PE – Oversight/Project Leader
Jonathan Shipley, LEED Green Assoc. – Project Manager/Designer
Josh Horton, EIT – Designer
Rick Bowers, PLS – Surveyor
Clinton Reeser - Designer

PROJECT SERVICES:

- Visual Inspection & Recommendation of Existing Structures
- Site Design
 - Bridge Decking & Handrail
 - Chain Link Enclosure
 - Sinkhole Remediation
 - Crib Walls
- Permitting
- Technical Specifications
- Construction Services & Observation

PROJECT DESCRIPTION:

The project consisted of evaluation, recommendation and design implementation for seven existing bridge structures and a sinkhole along a 4.5 mile stretch of the former ET&WNC (Tweetsie) railroad right-of-way line from Johnson City to Elizabethton. Each of the bridges, including single span, timer span, culvert, steel girder and steel superstructure, posed unique challenges in transitioning from a former railroad bed to a recreational trail for pedestrian use. Through the evaluation process defunct items were identified for replacement from failing crib walls to existing bridge/cross ties which would allow for the installation of 8 foot wide pressure treated wood walking/biking surface with handrails. The superstructure over Milligan Highway (US 321) also included infill of the area outside of the trail with pressure treated wood and a chain link enclosure for safety of the pedestrians and vehicular traffic below. The sinkhole remediation consisted of excavation of the surround area, installation of a perforated stand pipe and backfill of the excavated area with rip-rap.



Milligan Hwy. Bridge Before



Milligan Hwy. Bridge During



Milligan Hwy. Bridge After

