

Structures (Design) Checklist

Any item not checked yes on the list shall have a written explanation why the condition cannot or has not been met in the comments column.

PIN: 129888.00
 County: Wilson
 Federal Project No.: STBG-M-1234(00)
 State Project No.: 95LPLM-F3-011

BRIDGES	YES	NO	COMMENTS
Grade or drainage structure is over 20 feet in length measured along the roadway centerline	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Timber materials are not being used in bridge construction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
All bridge rails are specified according to current TDOT standards OR are rails meeting the requirements of AASHTO Manual for Assessing Safety Hardware, 2009.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There is no bridge improvements included in this project
Box and Slab type bridges are specified according to the LRFD Bridge Design Specifications, AASHTO, current edition with addenda	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There is no bridge improvements included in this project
Certification that bridges meet structural design criteria per LRFD Bridge Design Specifications, AASHTO, current edition with addenda has been submitted	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There is no bridge improvements included in this project
Geotechnical Report complete	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
All design notes have been included in the final structures submittal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Certification of the following based on AASHTO Green Book guidelines have been submitted:

GRADE CROSSINGS	YES	NO	COMMENTS
<p>The bridge length shall be the minimum required to accommodate the road or railroad plus the fill slopes (usually 2:1 unless otherwise specified by Geotechnical Study), ditches, and sidewalks, if required.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<p>There is no bridge improvements included in this project</p>
<p>The minimum horizontal clearance for a bridge over a road shall be a distance equal to the width of shoulders plus ditches except that for bridges over federal aid systems shall be 30'-0" from the edge of the travel lane to any substructure. The minimum horizontal clearance for a bridge over a railroad shall be 25'-0" measured from the top of the rail elevation at the centerline of the track to any substructure or fill slope.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<p>There is no bridge improvements included in this project</p>
<p>A minimum vertical clearance of 14'-6" shall be provided across the full extent of the required horizontal clearance for bridges over local roads and 16'-6" over state routes and interstates. Multimodal or pedestrian bridges shall provide a minimum vertical clearance of 17'-6" over local routes, state routes, and interstates. For bridges over railroads, the minimum vertical clearance shall be 23'-0" above the top of rail, unless otherwise specified by the railroad.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<p>There is no bridge improvements included in this project</p>
<p>Any greenways, bicycle or pedestrian lanes have been accounted for in the bridge design.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<p>There is no bridge improvements included in this project</p>

Certification of the following has been submitted, when applicable:

HYDRAULIC CROSSINGS	YES	NO	COMMENTS
All hydraulic design has been done according to the Tennessee Hydraulic Memoranda (THM), current version found on the TDOT Structures Division Hydraulics Section web page and HEC-RAS files are included in final submittal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the project located in Federal Emergency Management Agency (FEMA) Flood Plain?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If so, is the No-Rise Certification included in the final submittal?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
A scour analysis has been performed according to procedures in the Federal Highway Administration (FHWA) publication HEC-18 for all span bridges in TDOT Region 4 and any other part of the state where foundations will not be placed on bedrock.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There is no bridge improvements included in this project
Bridge deck drainage analysis has been performed according to procedures in the FHWA publication HEC-21 and submitted with the hydraulic design file for all span bridges unless the TDOT Standard Drawing STD 7-1 (Open) bridge rail is used.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There is no bridge improvements included in this project