

DESIGN POLICIES CHECKLIST AND CERTIFICATION

Contractee:	City of Lebanon	PIN:	129888.00	Federal No.:	STBG-M-1234(00)
Project Termini:	SR-141, From Lealand drive To East High Street.			State No.:	95LPLM-F3-011
Plan Set:	ROW	County:	Wilson		

Select the Type of Project (check all that apply):

<input type="checkbox"/> Bike Lanes	<input type="checkbox"/> Bridge	<input type="checkbox"/> Widening	<input checked="" type="checkbox"/> Intersection
<input type="checkbox"/> ITS/Technology	<input type="checkbox"/> Non-Traditional	<input type="checkbox"/> New Alignment	
<input checked="" type="checkbox"/> Resurfacing	<input type="checkbox"/> SIA	<input type="checkbox"/> Greenway/Multiuse Path	
<input checked="" type="checkbox"/> Sidewalk	<input checked="" type="checkbox"/> Signalization	<input type="checkbox"/> Other: Click to enter type of "other"	

Estimated ROW to be acquired: 0 Acres / 0 Tracts

Summary of proposed work: This project is improving Hartsville Pike (SR-141) from Lealand Lane to East High Street. These improvements will include resurfacing, improving ADA accessibility, crosswalks, and updated signalization at the intersection of Hartsville Pike and East High Street.

Project Specifics (check all that apply):

<input checked="" type="checkbox"/> <u>2</u> of 12 ft. Travel Lanes	<input checked="" type="checkbox"/> Curbs/ Gutters	<input type="checkbox"/> Flashing Beacons
<input checked="" type="checkbox"/> 5 ft. Shoulders	<input type="checkbox"/> Median U ft.	<input checked="" type="checkbox"/> Pedestrian Items (crosswalks, curb ramps, sidewalks)
<input type="checkbox"/> U ft. Center Turn Lanes	<input type="checkbox"/> Guardrails	<input type="checkbox"/> CMAQ
<input type="checkbox"/> Non-Construction	<input type="checkbox"/> Pavement Markers	<input checked="" type="checkbox"/> On State System
<input type="checkbox"/> Retaining Wall	<input type="checkbox"/> Roundabout	<input checked="" type="checkbox"/> Signage
<input checked="" type="checkbox"/> Striping	<input type="checkbox"/> Culverts	<input checked="" type="checkbox"/> Signals
	<input type="checkbox"/> Other: Click to enter "other"	

Letting Type:

<input checked="" type="checkbox"/> Locally Let	<input type="checkbox"/> State Let	<input type="checkbox"/> Other: Click to enter "other"
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Designer Information:

Designer Name: Bob Johnson, P.E. Williams Consultants

Contact Number: 615-122-8888

Contact Email: Bob.Johnson@williamsconsultants.com

It is the sole responsibility of the LG and its consultant to ensure that the design follows the Roadway Design Policies and Procedures. Refer to LPDO Guidelines 5.4.5 for additional information.

	YES	NO	N/A
Policies and Procedures			
Roadway Projects: TDOT Design policies and procedures followed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Non-Roadway Projects: Relevant TDOT approved design policies and procedures followed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23 CFR 635.411 has been followed pertaining to proprietary items, and the use of those been approved by TDOT?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ADA design policies and procedures have been followed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Project affects FEMA Floodplain?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If project affects FEMA Floodplain, is "No-rise" analysis included in final submittal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Design Exceptions			
For Roadway Projects, the controlling elements of design meet the criteria contained in the TDOT Design Policies and Procedures?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If "NO" is checked, a "Design Exception Request and Justification Form" has been completed in accordance with the requirements in Chapter 3 of the TDOT Roadway Design Guidelines and submitted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All Design Exception Requests have been approved by TDOT?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Roadway Quantities			
Only TDOT pay item numbers, descriptions, and units used? Item numbers, descriptions, and units must match. If an approved item number is not available, approval through the LPDO for an alternative item number is required.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Project Estimate			
Estimate Approved by TDOT?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	YES	NO	N/A
Project Plans			
Plans shall follow TDOT Design Guidelines, Standard Drawings, General and Special Notes and PROWAG requirements must also be met. TDOT Roadway Design checklists are available for download.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are plan sheets indexed in accordance with the TDOT Roadway Design Guidelines Section 4-133.00?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Does the title sheet state this is a Locally Managed Project?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Does the title sheet contain the signatures of the local government officials?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do the Preliminary plan sheets meet the requirements of Section 1-105.00 of the TDOT Roadway Design Guidelines?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do the ROW plan sheets meet the requirements of Section 1-105.00 of the TDOT Roadway Design Guidelines?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Does the final ROW Title Sheet have a licensed TN Professional Engineer seal with signature and date?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Do the Construction plan sheets meet the requirements of Section 1-105.00 of the TDOT Roadway Design Guidelines?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do the Construction Plans contain all applicable plan sheets listed in Section 4-133.00 of the Design Guidelines?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are all applicable final construction plan sheets signed, sealed and dated by a licensed TN Professional Engineer?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Non-Motorized Transportation			
Is the minimum sidewalk or side path width 5', excluding the 6" curb?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is the shared use path width at least 10' wide?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	YES	NO	N/A
Is the maximum grade, including construction tolerances, 5%? (Max 4.99% recommended)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is the maximum cross slope, including construction tolerances, 2%? (1.5% recommended)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Does the vertical clearance meet the minimum 8' requirement for underpasses?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are the horizontal curves on the shared-use-path designed per bike speed and stopping sight distance per AASHTO Guide for the Development of Bicycle Facilities, current edition?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Surface Type:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Concrete	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Asphalt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Composite	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permeable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Boardwalk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has the path edge drop-off been evaluated to determine the need for safety rail as per TDOT Standard S-BPR-1?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are curb ramps designed based on TDOT Standards RP-H-SERIES?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are truncated domes yellow, full width and only 2' from the edge per RP-H-3?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are the crosswalks designed by TDOT standard T-M-4? A different texture may be acceptable within crosswalk boundary markings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are two curb ramps provided in each corner and are they aligned to the crosswalk? If no, provide reasoning for each corner of intersection in which this applies.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is the whole intersection included in the scope of work?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Signalization			
Are pedestrian push buttons for audible detection installed at all signalized intersections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are new pedestrian signals proposed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are new bicycle signals proposed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

	YES	NO	N/A
Bicycle detection at intersection / location marked on pavement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Signs

Are all signs designed in accordance with TDOT policies or MUTCD?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Drainage

Please evaluate drainage on the project according to the TDOT Drainage Manual and add ditches, field drains, cross drains, etc. to intercept water as needed or to re-route existing site runoff. Check for areas of concentrated flow or areas in a sag. See TDOT Standard Drawing RP-S-9 for additional alternatives. See Section 5.2.11 Drainage of the AASHTO 2012 "Guide for the Development of Bicycle Facilities" for further information. Has offsite drainage over the facility been evaluated and addressed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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The existing pavement drainage and the existing storm water system may be impacted by shoulder modifications or the addition/removal of curb and gutter, median islands, raised curbs, and curb ramps. Existing roadway pavement drainage shall be evaluated in accordance with the TDOT Drainage Manual. If additional discharge is expected due to new or modified facilities, the existing storm water system must also be evaluated. Has the proposed drainage been evaluated and addressed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Are alternate drainage options proposed? If yes, provide details.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Are there drainage easements at outlet locations?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Are cross-drains located on the plans?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Is maximum spread calculated on existing roadway per the TDOT Drainage Manual?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Shared Lane

A shared lane is not recommended for facilities with design speed ≥ 45 mph since the operational speed differential will be more than 20 mph between the vehicle (45 mph) and bike (18 mph). Is the design	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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	YES	NO	N/A
speed \geq 45 mph?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is a statement from local authority stating the fact enclosed, if the operational speed reduction is proposed to meet the above criteria?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
A shared lane may be proposed for existing facilities with the design speed $<$ 45 mph where the existing lane width is 12 ft. with 2 ft. paved shoulder. Is minimum 14 ft. available for shared lane usage?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bike Lane			
V \geq 45 mph requires a minimum 3' buffer zone (see Standard Drawing T-M-11) to achieve the minimum 5' lateral offset. Is the minimum offset met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Minimum 4' bike lane width is required (5' if adjacent to a curb or an obstruction) see Standard Drawing T-M-12. Is the minimum lane width met?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two-Way Separated Bike Lane			
(Minimum 10' wide Bi-directional bike lane uses only one side of the street with a buffer zone)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is a separated bike lane proposed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are new bicycle signals proposed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bike turning movement shall be considered at intersections. Is this included in the plans?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bicycle detection at intersection / location marked on pavement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Safety Considerations for Sidewalks and Shared-Use Paths			
Design Speed \geq 45 mph, facility must be separated from the roadway. Are the following requirements met?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ADT $<$ 1500 requires a minimum 7' separation from the edge of the travelled way or placement of a 42" concrete barrier	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ADT $>$ 1500 requires a minimum 12' separation from the edge of the travelled way or 42" concrete median barrier.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	YES	NO	N/A
Is min. 42" concrete median barrier proposed on all bridge decks separating the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Has the existing structure capacity been evaluated by a structural engineer?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Has existing structure deck drainage been re-analyzed due to barrier placement and offsite drainage considerations?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Barrier Note: Place the barrier outside the shoulder and 2' offset from the facility.

Work Zone

Is the accessibility to existing pedestrian and/or bicycle facilities considered during the construction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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If a sidewalk will be closed, has a work zone pedestrian control plan been developed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Is a "Sidewalk Closed" sign placed at locations where the current project terminated a sidewalk due to the scope of work?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Are detour signs provided as needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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In the space provided, please provide an explanation for any responses marked 'NO'. Include references to support any designs that do not meet TDOT's minimum standards as indicated.

DESIGN CERTIFICATION

Project Commitments

Do the plans contain a comprehensive inclusion of all Project Commitments, including Planning, Right-of-Way and Environmental?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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List below the project commitments that have been made and are reflected in the plans.

34T
34T
34T
34T
34T

No Formal Design Exception Is Required

By checking the box to the right, this certifies all TDOT Roadway Design Policies and Procedures and all federal and state laws and regulations have been followed and the criteria for the controlling elements of design have been met. Appropriate standards and guidelines used during the development of the project have also been met.

Formal Design Exception Is Required

By checking the box to the right, this certifies all TDOT Roadway Design Policies and Procedures and all federal and state laws and regulations have been followed and have been met and Formal approval of a Design Exception has been received from the TDOT Design Division Local Program Coordinator. All other elements of the design meet the criteria for the controlling elements of design. Appropriate standards and guidelines used during the development of the project have also been met.

Note: Items documented on the check list shall be stored and maintained by the Local Government for seven (7) years after the project is finalized.

Ron Swanson

Bob Johnson

Local Official Responsible for
Project

Design Consultant