

## **DESIGN POLICIES CHECKLIST AND CERTIFICATION**

Contractee: City	of Lebanon	PIN: 129888.00	Federal No.:	STBG-M-1234(00
Project Termini:	SR-141, From Lealand Street.	drive To East High	State No.:	95LPLM-F3-011
Plan Set:	ROW		County:	Wilson
Select the Type of	of Project (check all that a	apply):		
☐ Bike Lanes	☐ Bridge	□ Widening	$\boxtimes$	Intersection
☐ ITS/Technolog	y    Non-Traditiona	al 🗆 New Align	ment	
⊠ Resurfacing	□ SIA	☐ Greenway	/Multiuse Path	l
⊠ Sidewalk		☐ Other: Clid	ck to enter type	e of "other"
Estimated ROW t			0	Tracts
	•	oject is impoving H		` ,
Summary of prop		d Lane to East Hig lude resurfacing, in		•
- z	crossw	alks, and updated	signalization	at the intersection
	of Hart	sville Pike and Eas	st High Street.	
Project Specifies	(abook all that apply):			
	(check all that apply):	⊠ Curbo/ C	uttore	Elaching Passans
Project Specifics  ☑ 2 of 12 ft. Trav	• • • • • • • • • • • • • • • • • • • •	⊠ Curbs/ G		Flashing Beacons
	el Lanes	⊠ Curbs/ G □ Median U	$\boxtimes$	Pedestrian Items (crosswalks, curb
⊠ <u>2</u> of 12 ft. Trav	el Lanes		IJft.	Pedestrian Items
<ul><li></li></ul>	el Lanes irn Lanes	□ Median U	IJft.	Pedestrian Items (crosswalks, curb ramps, sidewalks)
<ul><li>☑ 2 of 12 ft. Trav</li><li>☑ 5 ft. Shoulders</li><li>☐ U ft. Center Tu</li></ul>	el Lanes irn Lanes ion □ Pavement Mar	□ Median U	IJft. s □ System □	Pedestrian Items (crosswalks, curb ramps, sidewalks) CMAQ
<ul> <li>☑ 2 of 12 ft. Trav</li> <li>☑ 5 ft. Shoulders</li> <li>☐ U ft. Center Tu</li> <li>☐ Non-Construct</li> </ul>	el Lanes irn Lanes ion □ Pavement Mar	□ Median U □ Guardrail kers ⊠ On State ⊠ Signage	IJft. s □ System □	Pedestrian Items (crosswalks, curb ramps, sidewalks) CMAQ Rail Road
<ul> <li>☑ 2 of 12 ft. Trav</li> <li>☑ 5 ft. Shoulders</li> <li>☐ U ft. Center Tu</li> <li>☐ Non-Construct</li> <li>☐ Retaining Wall</li> </ul>	el Lanes  Irn Lanes  ion □ Pavement Mar □ Roundabout	□ Median U □ Guardrail kers ⊠ On State ⊠ Signage	U ft.  System  ⊠	Pedestrian Items (crosswalks, curb ramps, sidewalks) CMAQ Rail Road
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<ul> <li>☑ 2 of 12 ft. Trav</li> <li>☑ 5 ft. Shoulders</li> <li>☐ U ft. Center Tu</li> <li>☐ Non-Construct</li> <li>☐ Retaining Wall</li> <li>☒ Striping</li> </ul> Letting Type:	el Lanes  Irn Lanes  ion □ Pavement Mar □ Roundabout □ Culverts	☐ Median L ☐ Guardrail kers ☒ On State ☒ Signage ☐ Other: Click	J ft.  System  K to enter "other"	Pedestrian Items (crosswalks, curb ramps, sidewalks) CMAQ Rail Road Signals
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Contact Email: Bob.Johnson@williamsconsultants.com

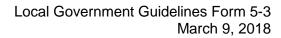


It is the sole responsibility of the LG and its consultant to ensure that the design follows the Roadway Design Policies and Procedures. Refer to LPDO Guidelines 5.4.5 for additional information.

	YES	NO	N/A
Policies and Procedures Roadway Projects: TDOT Design policies and procedures followed?			
Non-Roadway Projects: Relevant TDOT approved design policies and procedures followed?			
23 CFR 635.411 has been followed pertaining to proprietary items, and the use of those been			
approved by TDOT? ADA design policies and procedures have been followed?			
Project affects FEMA Floodplain?		$\boxtimes$	
If project affects FEMA Floodplain, is "No-rise" analysis included in final submittal?			
<b>Design Exceptions</b> For Roadway Projects, the controlling elements of design meet the criteria contained in the TDOT Design Policies and Procedures?			
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?			
All Design Exception Requests have been approved by TDOT?			
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.			
Project Estimate			
Estimate Approved by TDOT?			$\boxtimes$



	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.			
Are plan sheets indexed in accordance with the TDOT Roadway Design Guidelines Section 4-133.00?			
Does the <b>title sheet</b> state this is a Locally Managed Project?	$\boxtimes$		
Does the <b>title sheet</b> contain the signatures of the local government officials?	$\boxtimes$		
Do the <b>Preliminary</b> plan sheets meet the requirements of Section 1-105.00 of the TDOT Roadway Design Guidelines?			
Do the <b>ROW</b> plan sheets meet the requirements of Section 1-105.00 of the TDOT Roadway Design			
Guidelines?  Does the final <b>ROW</b> Title Sheet have a licensed TN  Professional Engineer seal with signature and date?			
Do the <b>Construction</b> plan sheets meet the requirements of Section 1-105.00 of the TDOT			
Roadway Design Guidelines?  Do the <b>Construction Plans</b> contain all applicable plan sheets listed in Section 4-133.00 of the Design			
Guidelines? Are all applicable final <b>construction plan</b> sheets signed, sealed and dated by a licensed TN Professional Engineer?			
Non-Motorized Transportation			
Is the minimum sidewalk or side path width 5', excluding the 6" curb?			
Is the shared use path width at least 10' wide?			





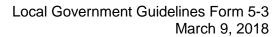
			YES	NO	N/A
Is the maximum grade, in tolerances, 5%? (Max 4.99% recommende	_	ction			
Is the maximum cross slotolerances, 2%? (1.5% recommended)	ppe, including co	onstruction			
Does the vertical clearan requirement for underpas		imum 8'			
Are the horizontal curves designed per bike speed per AASHTO Guide for the Facilities, current edition	and stopping sine Development	ght distance			
Surface Type:	Concrete	 Asphalt	Composite	Permeable	Boardwalk
Has the path edge drop-odetermine the need for sa Standard S-BPR-1?					
Are curb ramps designed RP-H-SERIES?	l based on TDO	T Standards			
Are truncated domes yell from the edge per RP-H-		nd only 2'			
Are the crosswalks desig 4? A different texture ma crosswalk boundary mark	y be acceptable				
Are two curb ramps provi they aligned to the crossy reasoning for each corne applies.	walk? If no, prov	ride			
Is the whole intersection work?	included in the s	scope of	$\boxtimes$		
Signalization					
Are pedestrian push buttoinstalled at all signalized		detection			
Are new pedestrian signa	als proposed?		$\boxtimes$		
Are new bicycle signals p	proposed?			$\boxtimes$	



	YES	NO	N/A
Bicycle detection at intersection / location marked on pavement?		$\boxtimes$	
Signs			
Are all signs designed in accordance with TDOT policies or MUTCD?			
Drainage	54		
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?			
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?			
Are alternate drainage options proposed? If yes, provide details.			
Are there drainage easements at outlet locations?			
Are cross-drains located on the plans?			
Is maximum spread calculated on existing roadway per the TDOT Drainage Manual?			
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			



	YES	NO	N/A
speed ≥ 45 mph? Is a statement from local authority stating the fact enclosed, if the operational speed reduction is proposed to meet the above criteria?			
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?			
<b>Bike Lane</b> V ≥ 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?			
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?			
Two-Way Separated Bike Lane (Minimum 10' wide Bi-directional bike lane uses only one side of the street with a buffer zone) Is a separated bike lane proposed?			
Are new bicycle signals proposed?			
Bike turning movement shall be considered at intersections. Is this included in the plans?			
Bicycle detection at intersection / location marked on pavement?			
Safety Considerations for Sidewalks and Shared-Use Design Speed ≥ 45 mph, facility must be separated from the roadway. Are the following requirements met?	e Paths		
ADT<1500 requires a minimum 7' separation from the edge of the travelled way or placement of a 42" concrete barrier			
ADT>1500 requires a minimum 12' separation from the edge of the travelled way or 42" concrete median barrier.			





	YES	NO	N/A
Is min. 42" concrete median barrier proposed on all bridge decks separating the facility?			
Has the existing structure capacity been evaluated by a structural engineer?			
Has existing structure deck drainage been reanalyzed due to barrier placement and offsite drainage considerations?  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?			
If a sidewalk will be closed, has a work zone pedestrian control plan been developed?			
Is a "Sidewalk Closed" sign placed at locations where the current project terminated a sidewalk due to the scope of work?			
Are detour signs provided as needed?	$\boxtimes$		
In the space provided, please provide an explanation for Include references to support any designs that do not mas indicated.			
DESIGN CERTIFICATIO	N		
Project Commitments			
Do the plans contain a comprehensive inclusion of all Project Commitments, including Planning, Right-of-Way and Environmental?			
List below the project commitments that have been mad	e and are	reflected in	the plans.
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 I Government for seven (7) years after the project is finalized.	₋ocal
Ron Swanson Bob Johnson	
Local Official Responsible for Project Design Consultant	