COLUMBIA-WRIGHTSVILLE BRIDGE REHABILITATION PROJECT

Veterans Memorial Bridge over the Susquehanna River

WRIGHTSVILLE FIVE-POINT INTERSECTION ALTERNATIVES COMPARISON (SR 0462 WITH N. & S. SECOND STREETS AND SR 0624 [HELLAM STREET])

	Alternative 1 No Build	Alternative 2 Gateway Roundabout	Alternative 3 Bump Out	Traffic Signal
Meets Intersection Goals				Intersection does not meet any of the five warrant conditions required to install a traffic signal
Reduces speed and crash potential		✓*	✓**	
Improves pedestrian crossing safety		✓*	✓**	
Improves bicyclist safety		✓		
Best accommodates truck turning movement from SR 0462 WB to SR 0624 EB		✓		
Improves substandard 25-degree angle configuration of SR 0624 intersection with SR 0462		✓		
Best improves intersection open space configuration while providing safer movements for all travel modes		✓		
Corrects substandard sight distance in three directions for South Second Street, North Second Street, and Hellam Street intersections with SR 0462		✓		
Allows left turn movements from SR 0624 WB (Hellam Street) to SR 0462 EB and South Second Street		✓		
Other				
Improves emergency response movements		✓		
Provides for an increase in parking spaces		✓		
Construction cost	$0	$2.7M	$1.2M	

* Major Improvement

** Minor Improvement

NOTES:

- One-way roundabout speed reduced to 20 mph; two-way bump-out remains 35 mph.
- The roundabout provides crosswalks on all five approaches, with pedestrians navigating shortest paths, one-way traffic, with lowest speed. The bump-out provides crosswalks on three approaches, undesirable mid-block crossings remain, with pedestrians navigating longest paths, two-way traffic, with higher speeds.
- The roundabout provides bicyclists with a one-way, low-speed intersection for movement, including option to dismount and use sidewalk and crosswalks at all approaches.
- The No Build (Alternative 1) would not address any of the project goals, while the Bump Out (Alternative 3) would only address the first two goals. Therefore:

■ Project Team Recommendation: Construct Gateway Roundabout (Alternative 2)

pennsylvania DEPARTMENT OF TRANSPORTATION

U.S. Department of Transportation Federal Highway Administration

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