

## Lehigh Valley Transportation Study

### SUBJECT: 13<sup>th</sup> Street Interchange Improvements

COUNTY..... Northampton	FED.-AID SYSTEM..... On-NHS
S.R./SEC. .... 2017/TSI	DECADE OF INVESTMENT ..... No
A.D.T..... 4,426	CAPITAL BUDGET ..... Yes
TRUCK A.D.T. .... 221 (5%)	DETOUR LENGTH ..... N/A
MPMS NUMBER..... 107725	EST LET DATE..... 6/21/2018
LENGTH ..... 0.96 miles	OPEN TO TRAFFIC..... 12/17/2018

### DESCRIPTION/LOCATION:

This project involves improvements to the State Route 22 / 13<sup>th</sup> Street interchange in the City of Easton and Wilson Borough, Northampton County. The work will include State Route 8010 Ramp A, State Route 8010 Ramp B, State Route 8010 Ramp C, State Route 8010 Ramp D, and a portion of State Route 2017 and State Route 2019.

### BRIDGE TABLE:

BR Key	Route	Intersecting Feature	Bridge Length	Bridge Width	Deck Area	SD	Suff. Rating	ADT	ADTT	Dist Rank	County Rank
28729	2017	SR 22 (LR 773)	99	70.5	6,980	N	93.3	4,426	233	1,144	172
28737	2019	Bushkill Creek	93	46	4,278	N	63.2	16,310	326	691	87

### REQUEST:

To add \$3,800,000 for the Construction phase on the 2017 LVTS TIP.

### TOTAL ESTIMATED COST:

Funding	Study	PE	UTL	ROW	CON	Total
Federal	\$0	\$0	\$0	\$0	\$3,040,000	\$3,040,000
State	\$92,735	\$15,000	\$0	\$0	\$760,000	\$867,735
<b>Total</b>	<b>\$92,735</b>	<b>\$15,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,800,000</b>	<b>\$3,907,735</b>

### REQUESTED COST (Construction):

Funding	Programmed	Request	Net Change
Federal (STP)	\$0	\$3,040,000	\$3,040,000
State (581)	\$0	\$760,000	\$760,000
Local	\$0	\$0	\$0
<b>Total</b>	<b>\$0</b>	<b>\$3,800,000</b>	<b>\$3,800,000</b>

### DISCUSSION:

- This interchange project was originally going to be reconstructed under MPMS# 103938. The goals of this long-range project were to convert the existing interchange into a diverging diamond interchange (DDI), replace the State Route 22 structure over 13<sup>th</sup> Street, replace the Wood Avenue Structure over State Route 22, and replace the traffic signal at the 13<sup>th</sup> Street

and Wood Avenue intersection with a modern roundabout at a total estimated Construction cost of approximately \$50 million.

2. A preventative bridge maintenance project was recently completed on the State Route 2017 (Wood Avenue) structure over State Route 22. During construction, the traffic control plan did not allow left turns to be made coming from the State Route 22 eastbound 13<sup>th</sup> Street exit. This temporary traffic control condition worked well, so Easton city officials reached out to LVTS and District 5-0 and requested to make this temporary condition permanent. A recommendation was made to postpone the interchange reconstruction project (MPMS# 103938) and break out a lower-cost improvement project (MPMS# 107725) in the short term.
3. The scope of this improvement project will include pavement preservation, bridge work, and intersection improvements.
4. Pavement preservation will include bituminous milling and a bituminous overlay, roadway patching, concrete island and mountable curbing updates, shoulder upgrades, guide rail and pavement marking updates, safety upgrades, and other miscellaneous construction items.
5. Work to be completed on the SR 22 (LR 73) and Bushkill Creek bridges will include scarifying deck and performing latex overlay, adding weep-holes and other drainage upgrades around wingwalls, and replacing/modifying bridge barriers and end transitions.
6. The Wood Avenue/13<sup>th</sup> Street traffic signal will be upgraded by replacing the existing span wires with mast arms. Pedestrian facilities, traffic islands, and other miscellaneous traffic signal items will also be improved.

#### **FUNDING SOURCE:**

1. The primary funding source for this project is the Highway and Bridge Line Item Reserve (MPMS #102201). Supplemental sources include the Utility phases of the Lehigh Race Street Intersection (MPMS #57433) and Water Street (State Route 3004) over Saucon Creek (MPMS #89641) projects, which are being pushed out to align with anticipated need and are fully carried on the 2019 Draft TIP. Additional sources are the Center Street Resurface project (MPMS #96429), which has excess funding remaining over the low bid amount; the Hamilton Boulevard Resurface project (MPMS #94863), which has a de-obligation available; and the Preliminary Engineering (PE) phase of the State Route 1015 over Martins Creek project (MPMS #85930), which is being used for a funding swap.

#### **OPTIONS:**

1. Approve the request as submitted and fund the Construction phase from the current TIP.
2. Deny the request and complete the work under the original project (MPMS #103938), which will not begin PE until the 3<sup>rd</sup> four years of the Twelve-Year Program (TYP).

#### **RECOMMENDATION:**

Option 1.

# 13<sup>th</sup> Street Interchange Improvements

