

**WORK-IN-PROGRESS "Comparison of Alternatives"**

Alternatives							PPA	
	1: No Build	2: Substructure Rehab & Replace Deck/Superstructure	3A: 5th Avenue Option (New Location)	3B: 5th Avenue 5-Leg Roundabout Option (New Location)	4: Wood Street Crossing (New Location)	5A: 3-Span Option (6th Avenue)	5B: 3-Span Option (6th Avenue With Left Turn Lane)	
<b>Purpose &amp; Need</b> 1	Y/N	N	N	Y	Y	Y	Y	
<b>Controlling Substandard Design Elements Improved</b>								
Stopping Sight Distance (Vertical Curve) 2	Y/N	N	N	N	N	N	N	
Stopping Sight Distance (Horizontal Curve) 3	Y/N	N	N	N	N	N	N	
Minimum and Maximum Grades 4	Y/N	N	N	N	N	N	N	
Cross Slope 5	Y/N	N	N	N	N	N	N	
Shoulder Width 6	Y/N	N	N	N	N	N	N	
Stopping Sight Distance at Non-Signalized Intersections 7	Y/N	N	N	N	N	N	N	
<b>Multimodal &amp; System Linkage</b>								
Improves Pedestrian Access 8	Y/N	N	Y	Y	Y	Y	Y	
Improves Bicycle Access 9	Y/N	N	Y	Y	Y	Y	Y	
Improves Truck Traffic Accommodations 10	Y/N	N	Y	Y	Y	Y	Y	
Design Vehicle Accommodated at Signal 11	Type	SU-30	SU-30	WB-67	WB-67	WB-67	WB-67	
Open During Design Year Flood Events 12	Y/N	Y	Y	N	N	Y	Y	
<b>Environmental</b>								
Potential Fill in the Floodplain 13	Y/N	N	Y <sup>1</sup>	Y	Y	Y	Y	
Hydraulic Opening Impacts 14	Y/N	N	N <sup>1</sup>	Y <sup>2</sup>	Y <sup>2</sup>	Y <sup>2</sup>	N <sup>1</sup>	
Wetland Impacts 15	# of acres	0	minimal <sup>1</sup>	0.01	0.02	0	0.02	
Riparian Zone Impacts 16	# of acres	0	0.02	0.14	0.14	0.09	0.01	
Involvement with Hazardous Waste/Contaminated Sites 17	Y/N	N	N	Y	Y	Y	N	
Federal/State T&E Species Impacted 18	Y/N	N	Y <sup>1</sup>	Y <sup>1</sup>	Y <sup>1</sup>	Y <sup>1</sup>	Y <sup>1</sup>	
Air & Noise Impacts 19	Y/N	N	N	Y	Y	Y	N	
Cultural Resources Affected 20	# Affected	0	0	0	0	0	0	
<b>Rights-of-Way</b>								
On-Street Public Parking Impacted 21	Y/N, # of spaces	0	0	0	0	0	10	
Full Residential Property Acquisition 22	# Impacted	0	0	0	0	0	0	
Partial Residential Property Acquisition 23	# Impacted	0	0	0	0	0	0	
Full Commercial Property Acquisition 24	# Impacted	0	0	1	1	1	0	
Partial Commercial Property Acquisition 25	# Impacted	0	0	4	4	1	1	
Number of Acres to be Acquired 26	# Impacted	0	0	1	1	1	0.05	
Potential Access Impacts 27	# Impacted	0	0	1	1	0	1	
<b>Construction Duration and Cost</b>								
Construction Duration 28	duration	NA	18	20	20	20	24	
Detour Required/Length 29	Y/N, miles	NA	Y, 1.3 miles	N	N	N	Y, 1.3 miles	
Total Time of Anticipated Bridge Closure 30	months	NA	12	0	0	0	20	
Construction Cost 31	\$	\$0	\$14,100,000	\$24,500,000	\$24,600,000	\$13,700,000	\$19,200,000	
Utility Relocation Cost 32	\$	\$0	\$1,500,000	\$2,600,000	\$2,600,000	\$1,500,000	\$2,000,000	
Maintenance & Operation Cost 33	\$/year	\$500,000	\$0	\$0	\$0	\$0	\$0	
Life Cycle Cost (present value - 100 yrs) 34	\$	\$0	\$17,700,000	\$29,000,000	\$29,200,000	\$16,900,000	\$23,100,000	
Right of Way Cost 35	\$	\$0	\$0	\$300,000	\$300,000	\$500,000	\$50,000	
<b>Total Cost</b> 36	\$	\$500,000	\$15,600,000	\$27,400,000	\$27,500,000	\$15,700,000	\$21,250,000	

Potential Fill in the Floodplain <sup>1</sup> Portions of the new deck will be located below the regulated Flood Hazard Area.  
 Hydraulic Opening Impacts <sup>1</sup> No rise will be demonstrated.  
<sup>2</sup> Demonstrating no rise after 500 feet upstream may be difficult.  
 Wetland Impacts <sup>1</sup> Impacts will vary based on the scope of substructure rehabilitation within the water.  
 Federal/State T&E Species Impacted <sup>1</sup> In-water timing restrictions between May 1 and July 31 are anticipated to protect warm water fish

**Legend:**  
 Grade: A measure of the road's steepness as it rises and falls along its route. Enables drainage along the travel lanes.  
 Cross Slope: The horizontal slope of the roadway from the center to the outer edge. Enables drainage from the travel lanes.  
 Stopping Sight Distance: The minimum distance a driver must be able to see objects clearly in order to have room to stop and avoid a collision.  
 Riparian Zone: Lands that occur along waterbodies.