

ARTERIAL LIFE CYCLE PROGRAM

REQUEST TO SUBSTITUTE PROJECT OR CHANGE SCOPE OF PROJECT

Name of Original Project	Beardsley Connection: SR101L to Beardsley at 83rd/Lake Pleasant Pkwy
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Lead Agency	City of Peoria	RTP ID	ACI-BRD-10-03
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RTP Project Budget	22,884,797	Date of Request	3/12/2010
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Name of Rescoped/Substitute	75th Avenue at Thunderbird Road: Intersection Improvement
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Description of Rescoped/Substitute Project	Widen intersection to add additional through and right turn lanes and dual lefts.
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ORIGINAL PROJECT SCHEDULE				
Work Phase	Work Fiscal Year	Reimbursement Fiscal Year	Programmed Reimbursement	Fund Type
Design	2007	N/A	N/A	N/A
ROW	2007	N/A	N/A	N/A
Construction (Utilities)	2009/2010	2009	\$ 22,884,797	STP-MAG
Total		2009	\$ 22,884,797	STP-MAG

RESCOPED/SUBSTITUTE PROJECT BUDGET					
Type of Work	Year for Work	Total Cost	Local Share	Regional Share	Regional %
Design	2010	\$ 650,000	\$ 195,000	\$ 455,000	70.00%
ROW	2011	\$ 500,000	\$ 150,000	\$ 350,000	70.00%
Construction (Utilities)	2011	\$ 1,500,000	\$ 450,000	\$ 1,050,000	70.00%
Total		\$ 2,650,000	\$ 795,000	\$ 1,855,000	70.00%

CURRENT FACILITY FEATURES (RESCOPED/SUBSTITUTE PROJECT)			
Total Lanes	4 (75th), 4 (Thunderbird)	Average Daily Traffic	50,000
North/South Lanes	2/2	Level of Service	C (AM) / E (PM)
East/West Lanes	2/2	V/C Ratio	0.85 (AM) / 0.88 (PM)
Length of Facility	0.4 miles	Bus Pullouts	No
		Bicycle Facilities	No

PLANNED FACILITY FEATURES (RESCOPED/SUBSTITUTE PROJECT)			
Total Lanes	6 (75th), 6 (Thunderbird)	Bus Pullouts	Yes
North/South Lanes	3/3	Bicycle Facilities	Yes
East/West Lanes	3/3	Pedestrian Facilities	Yes
Length of Facility	0.4 miles	Paved Shoulders/Curbs	Yes

Please explain the reason for requesting to substitute or rescope the original project.	The City of Peoria was able to recognize significant savings on the original Beardsley Connection project based on original cost estimates and the allocation of federal ARRA funds to the project. This ultimately resulted in an excess of \$5,906,866 in STP funds on the project. As a result, the City of Peoria has identified two substitute projects that are eligible to use these funds.
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<p>What technical documents and supporting analysis are available to demonstrate the feasibility of the requested project?</p>	<p>Technical documents supporting the roadway widening improvements include:</p> <p><u>MAG Regional Transportation Plan, Fig 9-2 (2007)</u> identified 75th Av as a 4 lane arterial and Thunderbird Rd as a 6 lane arterial and encouraged the development of pedestrian facilities throughout the region.</p> <p><u>City of Peoria General Plan - Transportation Element (2009)</u> identified Thunderbird Rd and 75th Av as major arterials and the intersection of 75th Av and Thunderbird Rd as a Category B, Type 1 intersection with a lane configuration of 3 through lanes in each direction, dual left turn lanes and dedicated right turn lanes.</p> <p><u>City of Peoria Transportation Needs Study (2008)</u> recommended the same lane configuration for 75th Av and Thunderbird Rd as the City of Peoria General Plan - Transportation Element.</p> <p><u>City of Peoria Intersection Studies Report (2007)</u> The intersection is the fifth busiest in Peoria. Thunderbird Rd carries in excess of 30,000 ADT and 75th Av carries in excess of 21,000 ADT. Due to the high number of collisions at the intersection it is prioritized as one of the top 3 intersections needing corrective action. Capacity analysis indicates that the intersection operates at a LOS C during the AM peak hour and LOS E during PM peak hour. However, during peak PM hours a number of movements operate at LOS F. Without improvements, the overall LOS drops to F by 2023.</p>
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<p>Description of how the requested project would improve mobility/safety and reduce congestion.</p>	<p><u>Additional Lane Capacity</u> Adding one through lane, one additional left turn lane and a dedicated right turn lane in all four directions will provide additional capacity, reduce delays and improve the overall LOS of the intersection.</p> <p><u>Pedestrian Facilities</u> This intersection project will accommodate future bike lanes through the intersection on both Thunderbird Rd and 75th Av.</p> <p><u>Access Management</u> Current driveway configurations were constructed under previous City driveway standards that allowed driveways to be placed closer to the intersection than current standards allow. Adding raised medians on each leg of the intersection will allow the City to restrict access to certain driveways and eliminate conflict points for vehicles entering and exiting area businesses.</p> <p><u>Bus Pullouts</u> Currently, bus routes do not operate near the project intersection area on either 75th Ave or Thunderbird Rd. However, the City's Multi-Modal Transportation Plan includes provisions to extend Valley Metro service on Thunderbird Rd. west of 75th Ave.</p>
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<p>Requested Project's Benefit to the MAG Region?</p>	<p>Thunderbird Rd is designated as a major arterial street by the City of Peoria creating a major east-west connection between Loop 101 (1.5 miles west) and the City of Glendale (1 mile east). 75th Av is also designated as a major arterial street by the City of Peoria creating a major north-south connection between Bell Rd (2 miles north) and Grand Av (3 miles south). Both Bell Rd and Grand Av are identified as MAG Roads of Regional Significance. The proposed intersection will provide increased accessibility and mobility throughout the MAG region.</p>
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