

**SR 91 North Turn Lanes Improvement Project**  
**Widening Alternates Summary**  
 July, 2016

	Alternate A	Alternate A1*	Alternate B	Alternate B1	Alternate C
Widening Description	Symmetrical widening with curb on both sides	Symmetrical Widening with Curb on east side only	Widening to the west with curb on both sides	Widening to the west with curb on east side only	Mix of Alt A1 & B1; Widening to the west with curb on east side south of Herrick Park Dr. and Symmetric Widening with curb on east side, north of Herrick Park Dr.
Traffic Improvements	Crash reductions with new turn lanes. Sidewalk provided on east side wth bike lanes on both sides of road.	Crash reductions with new turn lanes. Sidewalk provided on east side wth bike lanes on both sides of road.	Crash reductions with new turn lanes. Sidewalk provided on east side wth bike lanes on both sides of road.	Crash reductions with new turn lanes. Sidewalk provided on east side wth bike lanes on both sides of road.	Crash reductions with new turn lanes. Sidewalk provided on east side wth bike lanes on both sides of road.
Pavement Improvements	Improved drainage in shoulder and at edge of pavement to alleviate pavement failure.	Improved drainage in shoulder and at edge of pavement to alleviate pavement failure.	Improved drainage in shoulder and at edge of pavement to alleviate pavement failure.	Improved drainage in shoulder and at edge of pavement to alleviate pavement failure.	Improved drainage in shoulder and at edge of pavement to alleviate pavement failure.
Storm Sewer Improvements	Closed drainage system on both sides or road and sewer crossings results in higher cost	Less costly drainage system with storm sewer system on one side of roadway only	Closed drainage system on both sides or road and sewer crossings results in higher cost	Less costly drainage system with storm sewer system on one side of roadway only	Less costly drainage system with storm sewer system on one side of roadway only
Water Quality Improvements	Manufactured system likely for BMP treatment (less ditches)	Ditch on west side can be used for "green" BMP	Manufactured system likely for BMP treatment (less ditches)	Ditch on west side can be used for "green" BMP	Ditch on west side can be used for "green" BMP
Private Property Impacts	Requires less than 1 acre of permanent R/W and approximately 2 acres of temproary R/W	Requires approximately 2 acres of permanent R/W and 1 acre of temporary R/W	Requires less than 1 acre of permanent R/W and approximately 2 acres of temproary R/W	Requires approximately 2 acres of permanent R/W and 1 acre of temporary R/W	Requires approximately 2 acres of permanent R/W and 1 acre of temporary R/W
Environmental Impacts	Some stream and wetland impacts along with grading and tree removal at Darrow Road Park	Some stream and wetland impacts along with grading and tree removal at Darrow Road Park	Some stream and wetland impacts along with grading and tree removal at Darrow Road Park	Some stream and wetland impacts along with grading and tree removal at Darrow Road Park	Some stream and wetland impacts along with grading and tree removal at Darrow Road Park
Base Construction Costs	\$3.58 million	\$3.38 million	\$4.25 million	\$3.59 million	\$3.51 million

Additional Cost for 8' Bike Lane (in lieu of 5' sidewalk)	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00
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<b>Revised Construction Costs</b>	<b>\$3.68 million</b>	<b>\$3.48 million</b>	<b>\$4.35 million</b>	<b>\$3.69 million</b>	<b>\$3.61 million</b>
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\* Alternate A1 is the Staff's recommended alternate due to the least construction cost and potential for "green" infrastructure.