

**Brevard Rail Crossings RCE Grant**  
**Safety Enhancement Alternatives Summary Matrix**  
5/6/2024

Crossing	City	Maintaining Agency	Safety Enhancements	No-Build	4 Quadrant Gate System and Median	4 Quadrant Gate System	3 Quadrant Gates and Median	3 Quadrant Gates and Flexible Delineators
Michigan Avenue	Cocoa	Brevard County	Location of Gate Additions	-	NW/SE Quadrants		SE Quadrant	
			Location of Channelization Device Addition	-	West of Crossing	-	West of Crossing	
			Estimated Vehicle Violations	211	27	38	40	
			Total Construction Cost	\$0	\$910,000	\$745,000	\$810,000	
			Annual Maintenance Costs	\$5,000	\$10,000	\$10,000	\$10,000	
Dixon Boulevard	Cocoa	Brevard County	Location of Gate Additions	-		NW/SE Quadrants		
			Location of Channelization Device Addition	-		-		
			Estimated Vehicle Violations	560		101		
			Total Construction Cost	\$0		\$725,000		
			Annual Maintenance Costs	\$5,000		\$10,000		
W. Highlands Drive	Cocoa	City of Cocoa	Location of Gate Additions	-	NW/SE Quadrants		NW Quadrant	
			Location of Channelization Device Addition	-	East of Crossing	-	East of Crossing	
			Estimated Vehicle Violations	91	12	16	17	20
			Total Construction Cost	\$0	\$810,000	\$705,000	\$710,000	\$650,000
			Annual Maintenance Costs	\$5,000	\$10,000	\$10,000	\$10,000	\$11,000
Masterson Street	Melbourne	City of Melbourne	Location of Gate Additions	-	NW/SE Quadrants		SE Quadrant	
			Location of Channelization Device Addition	-	West of Crossing	-	West of Crossing	
			Estimated Vehicle Violations	119	15	21	23	26
			Total Construction Cost	\$0	\$730,000	\$645,000	\$610,000	\$560,000
			Annual Maintenance Costs	\$5,000	\$10,000	\$10,000	\$10,000	\$11,000
New Haven Avenue	Melbourne	City of Melbourne	Location of Gate Additions	-	NW/SE Quadrants			
			Location of Channelization Device Addition	-	West of Crossing			
			Estimated Vehicle Violations	248	20			
			Total Construction Cost	\$0	\$760,000			
			Annual Maintenance Costs	\$5,000	\$10,000			
Prospect Avenue	Melbourne	City of Melbourne	Location of Gate Additions	-		NW/SE Quadrants		
			Location of Channelization Device Addition	-		-		
			Estimated Vehicle Violations	55		10		
			Total Construction Cost	\$0		\$685,000		
			Annual Maintenance Costs	\$5,000		\$10,000		
Line Street (W.H. Jackson Street)	Melbourne	City of Melbourne	Location of Gate Additions	-	NW/SE Quadrants		SE Quadrant	
			Location of Channelization Device Addition	-	West of Crossing	-	West of Crossing	
			Estimated Vehicle Violations	129	17	23	24	28
			Total Construction Cost	\$0	\$855,000	\$755,000	\$745,000	\$690,000
			Annual Maintenance Costs	\$5,000	\$10,000	\$10,000	\$10,000	\$11,000
Jernigan Avenue	Melbourne	City of Melbourne	Location of Gate Additions	-		NW/SE Quadrants		
			Location of Channelization Device Addition	-		-		
			Estimated Vehicle Violations	100		18		
			Total Construction Cost	\$0		\$760,700		
			Annual Maintenance Costs	\$5,000		\$10,000		
Holly Street	Micco	Brevard County	Location of Gate Additions	-	NW/SE Quadrants		NW Quadrant	
			Location of Channelization Device Addition	-	East of Crossing	-	East of Crossing	
			Estimated Vehicle Violations	124	16	22	24	27
			Total Construction Cost	\$0	\$945,000	\$755,000	\$835,000	\$725,000
			Annual Maintenance Costs	\$5,000	\$10,000	\$10,000	\$10,000	\$12,000

**Notes:**

Construction costs estimated utilizing FDOT LRE Pay Items or estimations provided by Brightline

Annual maintenance costs either provided by Florida East Coast Railway or estimated utilizing FDOT LRE Pay Items