

## At-Grade Crossing Safety Improvement Recommendations

Safety Improvement Type	Location for Safety Improvement	Assumed Improvement Cost	Total Cost for Improvement Type
Crossing Closure-closing the road that crosses the railroad tracks	St. Paul Park	\$250,000	\$250,000
Replacing Signs-missing, deteriorated or insufficient signing added or replaced	CP Corridor	\$75,000	\$75,000
Passive Warning Device upgraded to an Active Warning Device system-for example, upgrading things like signs with quad gates	None	\$250,000	\$0
Active Warning Device upgrade-interconnecting and coordinating rail signals with traffic lights to avoid backups on tracks	1st Street, Perham	\$150,000	
	CR 11, near Big Lake	\$500,000	
	2nd Street, Wadena	\$150,000	\$800,000
Active Warning Device upgrade-installing medians to prevent traffic from driving around lowered gates	TH 43, Winona	\$100,000	
	TH 24, Clear Lake	\$100,000	
	East St. Germaine, St. Cloud	\$100,000	\$300,000
Quad Gates (4)-installing lights, bells, and/or gates to ensure all four quadrants of a crossing are protected	Jackson Street, Elk River	\$250,000	
	Main Street, Elk River	\$250,000	\$500,000
Grade Separations-creating an underpass or overpass to completely separate traffic from crossing the railroad tracks	None	Varies by crossing; very expensive	\$0
Rail Safety Education Initiative-develop to educate the public about the dangers at railroad crossings	Statewide	\$75,000	\$75,000
<b>Total Cost</b>			<b>\$2,000,000</b>

*NOTE: These are planning-level recommendations and have received initial concurrence from local agencies in all cases.*