

**CITY OF BOULDER**  
**RAILROAD CROSSING QUIET ZONE EVALUATION**  
**UPDATED CONCEPTUAL COSTS**  
**(FOR INFORMATION ONLY)**

CROSSING	STREET	M.P.	SSM Options			Wayside Horns	Opinion of Construction Cost Rounded <sup>(2)</sup>	Comments/Assumptions
			Raised Medians	Channelizing Devices	4-Quad Gates <sup>(1)</sup>			
244827V	North 63rd Street	35.29			X		\$620,000	CWT upgrade & new gates
						X	\$400,000	CWT upgrade & 3 horns
244824A	North 55th Street	33.77			X		\$480,000	CWT upgrade & new gates
						X	\$310,000	CWT upgrade & 2 horns
				X			\$110,000	1-60 ft & 1-100 ft channelizing devices
			X				\$280,000	1-60 ft & 1-100 ft medians; some curb/gutter
244823T	Jay Road	33.25			X		\$560,000	3 exit gates & CWT upgrade
						X	\$320,000	CWT upgrade & 2 horns
244822L	Independence Road	32.33			X		\$450,000	CWT upgrade; 2 exit gates; stub channeliz.
					X		\$480,000	CWT upgrade; 2 exit gates; stub medians
						X	\$310,000	CWT upgrade & 2 horns
				X			\$110,000	1-60 ft & 1-100 ft channelizing devices
			X				\$300,000	1-60 ft & 1-100 ft medians; full curb/gutter
244821E	47th Street	32.04	X				\$280,000	South median extension to 100 ft
244818W	Valmont Road	31.45	X				\$620,000	CWT upgrade & new gates
					X		\$480,000	CWT upgrade & new gates
244815B	Pearl Parkway	27.83			X		\$480,000	CWT upgrade & new gates
244813M	55th Street (south end)	26.38	X				\$250,000	CWT upgrade & new gates
						X	\$310,000	CWT upgrade & 2 horns
244811Y	63rd Street (south end)	25.37	X				\$360,000	Extension of 4 medians to 60 ft
					X		\$780,000	CWT upgrade & new gates
						X	\$350,000	CWT upgrade & 4 horns

**Range of Costs: \$2,780,000 (Low)**  
**\$4,610,000 (High)**

**NOTES:**

(1) Annual Maintenance Cost is for equipment in addition to the standard crossing installation (approach gates, cross bucks, flashers, bells) that requires additional maintenance by the Railroad. This cost is billed to the road authority and is per crossing.

(2) Opinion of Construction Cost Rounded includes equipment, materials and labor for roadway and railroad elements, design, easement (where assumed to be needed), survey (where needed), and Construction Observation (at crossings with roadway improvements). Wayside Horn cost includes connection, testing, training of city traffic staff for long term maintenance. No costs are assumed for environmental evaluation/clearance, geotechnical investigations or pavement design, utility relocates, public meetings or PUC Hearing assistance.

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