

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

CROSSING	STREET	M.P.	SSM Options			Wayside Horns	(2) Opinion of Construction Cost Rounded	Comments/Assumptions
			Raised Medians	Channelizing Devices	4-Quad Gates (1)			
244836U	North 83rd Street	39.17			X		\$480,000	CWT upgrade & new gates
						X	\$310,000	CWT upgrade & 2 horns
244834F	Main Street (2nd Avenue)	38.05			X		\$480,000	CWT upgrade & new gates
						X	\$310,000	CWT upgrade & 2 horns
				X			\$144,000	2-60 ft channelizing devices
			X				\$220,000	60' medians; curb/gutter east approach
244833Y	Niwot Road	37.86			X		\$550,000	3 exit gates & CWT upgrade
						X	\$310,000	CWT upgrade & 2 horns
244832S	Monarch Road	37.20			X		\$450,000	CWT upgrade; 2 exit gates; stub channeliz.
					X		\$576,000	CWT upgrade; 2 exit gates; stub medians
						X	\$310,000	CWT upgrade & 2 horns
244824A	North 55th Street	33.77			X		\$480,000	CWT upgrade & new gates
						X	\$310,000	CWT upgrade & 2 horns
				X			\$132,000	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		\$576,000	CWT upgrade; 2 exit gates; stub medians
						X	\$310,000	CWT upgrade & 2 horns
				X			\$132,000	1-60 ft & 1-100 ft channelizing devices
			X				\$300,000	1-60 ft & 1-100 ft medians; full curb/gutter

**Range of Costs: \$1,658,000 (Low)
to: \$3,702,000 (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 county 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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