



Appendix E: Cost Assumptions



Longmont Transportation Mobility Plan

Project Type	Recommendation	Type	F&P Notes	AECOM Inclusions	AECOM Exclusions	Unit	F&P	Final (Miles, both directions)
Roadway	Multimodal Intersection Enhancement	Intersection	Safety Improvements Identified where PBL/Trail Crosses Arterial and/or Identified as Top Crash Location	- Remove & Replace Curb Ramps - Remove & Replace Curb & Gutter - Striping - Signing - RRFB (Wiring, Cabinet, etc...)	- Mill & Overlay HMA - Sidewalk	Each	\$200,000	\$175,000
Roadway	Grade Separated Crossing	Intersection	50' 12x10 Box Culvert	- Box Culvert & Walls - Remove & Replace Existing - Striping - Striping	-Lighting	Each	\$8,000,000	\$7,100,000
Roadway	Capacity Increase	Intersection	Add (1) 12' Turn Lane (150')	- Full Depth Roadway - Remove and Replace Curb and Gutter - Striping - Signing	- Remove & Replace Sidewalk - Remove & Replace Curb Ramps - Mill & Overlay Existing HMA - Signals	Each	N/A	\$80,000
Roadway	Signalized Intersection	Intersection	Signalize Existing Intersection	- Striping - Signing - Signals (Wiring, Cabinet, etc...)	- Removals - Mill & Overlay HMA	Each	\$750,000	\$950,000
Roadway	Roundabout	Intersection	Single Lane Roundabout	- Remove & Replace Existing - Sidewalk - Curb Ramps - Striping - Curb & Gutter	- Landscaping	Each	\$1,000,000	\$1,200,000
Roadway	Roadway Enhancement	Corridor	Add Curb & Gutter	- Curb & Gutter	- Removals - Sidewalk - Curb Ramps	Mile (both directions)	\$150,000	\$1,000,000
Roadway	Capacity Increase	Corridor	Add (1) 12' Turn Lane	- Full Depth Roadway - Remove and Replace Curb and Gutter - Striping - Signing	- Remove & Replace Sidewalk - Remove & Replace Curb Ramps - Mill & Overlay Existing HMA - Signals	Mile (both directions)	\$2,000,000	\$5,100,000
Roadway	New Roadway	Corridor	Construct (1) 12' Lane	- Curb & Gutter - Full Depth Roadway - Striping - Signing	- Curb Ramps - Sidewalk - Signals	Mile (both directions)	\$3,000,000	\$4,600,000
Bike	Roadway Reallocation	Corridor	Remove (1) 12' Turn Lane/Travel Lane/Parking	- Mill & Overlay HMA - Vehicle Striping (Centerline)	- Curb & Gutter - Vehicle Signing - Bicycle Striping	Mile (both directions)	N/A	\$590,000
Bike	Bike Lane (BL)	Corridor	Single Stripe	- Bicycle Striping - Bicycle Signing	- Mill & Overlay HMA - Curb & Gutter - Vehicle Striping (Centerline) - Striping Removal	Mile (both directions)	\$100,000	\$120,000
Bike	Buffered Bike Lane (BBL)	Corridor	Double Stripe with Hatching	- Bicycle Striping - Bicycle Signing	- Mill & Overlay HMA - Curb & Gutter - Vehicle Striping (Centerline) - Striping Removal	Mile (both directions)	\$110,000	\$140,000
Bike	Protected Bike Lane (PBL)	Corridor	Double Stripe with Hatching & Flex Posts	- Bicycle Striping - Bicycle Signing - Flexible Delineators	- Mill & Overlay HMA - Curb & Gutter - Vehicle Striping (Centerline) - Striping Removal	Mile (both directions)	N/A	\$290,000
Bike	Neighborhood Bikeway	Corridor	Traffic Circles Installed at 1/4 Mile Spacing	- Bicycle Striping (Symbols) - Bicycle Signage - Traffic Calming Measures	- Bicycle Striping (Lane Lines) - Vehicle Striping - Curb & Gutter	Mile	\$200,000	\$285,000
Bike	Multi-Use Trail	Corridor	Construct 12' Sidewalk	- Concrete Sidewalk	- Curb Ramps - Curb & Gutter - Sidewalk Removal - Crosswalk Striping	Lane Mile	\$2,100,000	\$1,690,000
Bike	Sidewalk	Corridor	Construct 8' Sidewalk	- Concrete Sidewalk - Remove Existing 4' Sidewalk - Remove and Replace Curb Ramps	- Crosswalk Striping - Curb & Gutter	Mile (both directions)	N/A	\$3,100,000
Bike	Future-Regional-Connection	Corridor	N/A	N/A	N/A	Lane-Mile	TBD	N/A
Pedestrian	New Sidewalk	Corridor	Construct 6' Sidewalk	- Concrete Sidewalk - Curb Ramp	- Sidewalk Removal - Crosswalk Striping - Curb & Gutter	Lane Mile	N/A	\$1,050,000
Pedestrian	Upgrade Existing Sidewalk	Corridor	Remove Existing 4' Sidewalk and Construct 6' Sidewalk	- Sidewalk Removal - Concrete Sidewalk - Remove & Replace Curb Ramp	- Curb & Gutter - Crosswalk Striping - Curb & Gutter	Lane Mile	N/A	\$1,275,000

Note: Where unit costs are provided per "lane mile" or "mile," double the estimate if recommendation impacts both directions of travel.

Add Roadway Reallocation Cost to BL, BBL, and/or PBL Costs as Needed