

Annual Estimate of Maintenance Cost for UP Crossings in Project

Typical grade crossings yearly maintenance costs is divided by “track” and “signal” maintenance. UP incurs in average a cost of \$3,500 per crossing to maintain the surface (rail, ballast, ties and concrete pads). This number was determined by using typical 12 months budget the local Track Department is using over the entire region and divided by the number of crossings. Typical yearly signal maintenance cost (gates, flashing lights, bell, signal bungalow and related) is \$9,500 for a crossing equipped with 2 gates and increasing to \$14,000 for a crossing equipped with 4 gates or gates and cantilevers.

Summary of the crossings proposed for removal along with the estimated annual maintenance cost

Crossing	Crossing details	Signal equipment	Surface cost	Signal cost
Toole Ave DOT 742-045F MP 0.63	4 lanes of traffic, 64' wide crossing surface	2 gates, 2 cantilevers, 16 flashing lights, 2 bells	\$3,500	\$14,000
17 th St DOT 742-047U MP 0.75	2 lanes of traffic, 56' wide crossing surface	2 gates, 8 flashing lights, 2 bells	\$3,500	\$9,500
18 th St DOT 742-049H MP 0.89	2 lanes of traffic, 48' wide crossing surface	2 gates, 8 flashing lights, 2 bells	\$3,500	\$9,500
19 th St DOT 742-100D MPO.93	2 lanes of traffic, 40' wide crossing surface	2 gates, 8 flashing lights, 2 bells	\$3,500	\$9,500
20 th St DOT 742-103Y MP 1.01	2 lanes of traffic, 40' wide crossing surface	2 gates, 8 flashing lights, 2 bells	\$3,500	\$9,500
22 nd St DOT 742-104F MP 1.2	4 lanes of traffic, raised medians, 88' wide crossing surface	2 gates, 2 standalone flashers, 12 flashing lights, 2 bells	\$3,500	\$14,000
29 th St (Silverlake Rd) DOT 742-106U MP 1.74	2 lanes of traffic, strip medians, 64' wide surface crossing	2 gates, 4 flashing lights, 2 bells	\$3,500	\$9,500
36 th St DOT 742-107B MP 2.24	3 lanes of traffic (2 westbound), 56' wide crossing surface	2 gates, 8 flashing lights, 2 bells	\$3,500	\$9,500
Ajo Way DOT 742-109P MP 3.21	4 lanes of traffic, 1 sidewalk (south side, 10' wide), strip medians, 96' wide crossing surface	2 gates, 2 cantilevers, 16 flashing lights, 2 bells	\$3,500	\$14,000

Fair Ave DOT 742-110J MP 3.69	2 lanes of traffic, 4' wide sidewalk, 56' wide crossing surface	2 gates, 8 flashing lights, 2 bells	\$3,500	\$9,500
Irvington Rd DOT 742-112X MP 4.19	4 lanes of traffic, raised medians, 96' wide crossing surface	2 gates, 2 standalone flashers, 12 flashing lights, 2 bells	\$3,500	\$14,000
Fletcher Ave DOT 742-113E MP 4.41	2 lanes of traffic, 22' wide crossing surface, 2 Yield signs and 2 crossbucks		\$3,500	
Drexel Rd DOT 742-114L MP 5.26	2 lanes of traffic, strip medians, 56' wide crossing surface	2 gates, 8 flashing lights, 2 bells	\$3,500	\$9,500
Bilby Rd DOT 742-115T MP 5.75	2 lanes of traffic, strip medians, 56' wide crossing surface	2 gates, 8 flashing lights, 2 bells	\$3,500	\$9,500
Valencia Rd DOT 742-116A MP 6.3	9 lanes of traffic (5 westbound, 4 eastbound), 10' wide raised medians, 136' wide crossing surface	4 gates, 2 cantilevers, 24 flashing lights, 2 bells	\$3,500	\$14,000
Teton Rd DOT 742-117G MP 6.98	2 lanes of traffic, 4' wide raised median east side of the track only, 72' wide crossing surface. 2 Stop signs, 2 crossbucks, 2 private crossing signs		\$3,500	
Aero Park Blvd DOT 748-710G MP 7.88	5 lanes of traffic (3 westbound, 2 eastbound), 12' wide medians, 80' wide crossing surface	4 gates, 12 flashing lights, 2 bells	\$3,500	\$14,000
Herman Rd DOT 742-119V MP 8.25	4 lanes of traffic, 56' wide crossing surface	2 gates, 8 flashing lights, 2 bells	\$3,500	\$9,500

Aerospace Pkwy (Hughes Access Rd) DOT 742-120P MP 9.28	2 lanes of traffic, 2 10' wide bike lanes, 40' wide crossing surface	2 gates, 8 flashing lights, 2 bells	\$3,500	\$9,500
Guillermo Herron (private crossing) DOT 742-121W MP 9.82	2 lanes of traffic, 40' wide crossing surface (timber), 2 Stop Signs, 2 private crossing signs		\$3,500	

Surface total cost **Signal total cost**
\$70,000 \$188,500