

D-3 Preliminary Estimates Section Transportation Costs

Annual Roadway Construction Cost

Revised DECEMBER 2015 TO 2016

LRE Project No.	Rural Roadway Arterial (cost per mile)		Dec-16
333301-1-52-07	New Construction (2-Lane Roadway) 5' Paved Shoulders, undivided		\$2,178,295
333302-1-52-07	New Construction (4-Lane Roadway) 5' Paved Shoulders, divided 40' Median, Lt & Rt T Lanes		\$4,983,920
333303-1-52-07	New Construction (6-Lane Roadway) 5' Paved Shoulders, divided 40' Median, Lt & Rt T Lanes		\$6,019,975
333304-1-52-07	Milling and Resurfacing (2-Lane Roadway) 5' Paved Shoulders, undivided		\$436,755
333305-1-52-07	Milling and Resurfacing (4-Lane Roadway) 5' Paved Shoulders, divided 40' Median, Lt & Rt T Lanes		\$951,560
333306-1-52-07	Milling and Resurfacing (6-Lane Roadway) 5' Paved Shoulders, divided 40' Median, Lt & Rt T Lanes		\$1,712,586
333307-1-52-07	Add 2 Lanes (2 to 4) Lanes divided with 5' Paved Shoulders (Includes milling and resurfacing of existing pavement) to Intrastate Standards, divided 40' Median, Lt & Rt T. Lanes		\$4,712,954
333308-1-52-07	Add 2 Lanes (4 to 6) Lanes with 5' Paved Shoulders (Includes milling and resurfacing of existing pavement) divided 40' Median, Lt & Rt T. Lanes		\$4,116,737
333309-1-52-07	Add 2 Lanes (6 to 8) Lanes with 5' Paved Shoulders (Includes milling and resurfacing of existing pavement) divided 40' Median, Lt & Rt T. Lanes		\$4,097,328
333310-1-52-07	Add 1 Through Lane 12' on Inside (Resurface Existing) with 5' Paved Shoulders		\$1,762,792
333311-1-52-07	Add 1 Through Lane on Outside (Resurface Existing) with 5' Paved Shoulders		\$1,291,489
333312-1-52-07	Add 300' Exclusive Left Turn Lane(Rural Typical resurface existng lanes)		\$226,065
333313-1-52-07	Add 300' Exclusive Right Turn Lane(Rural Typical resurface existng lanes)		\$220,883
LRE Project No.	Urban Roadway Arterial (cost per mile)		
333314-1-52-07	New Construction (2-Lane Roadway) 5' Sidewalk, and Curb & Gutter, undivided		\$4,267,955
333315-1-52-07	New Construction (4-Lane Roadway) 5' Sidewalk, and Curb & Gutter, divided 22' median		\$7,357,471
333316-1-52-07	New Construction (6-Lane Roadway) 5' Sidewalk, and Curb & Gutter, divided 22' median		\$8,845,462
333317-1-52-07	Milling and Resurfacing (4-Lane Roadway) 5' Sidewalk, and Curb & Gutter, undivided, includes Lt & Rt T Lanes.		\$929,128
333318-1-52-07	Milling and Resurfacing (6-Lane Roadway) 5' Sidewalk, and Curb & Gutter, undivided, includes Lt & Rt T Lanes.		\$1,232,025
333319-1-52-07	Add 2 Lanes (2 to 4) Lanes, 5' Sidewalk, and Curb & Gutter (Includes milling and resurfacing existing pavement) undivided, includes Lt & Rt T Lanes.		\$6,009,092
333320-1-52-07	Add 2 Lanes (4 to 6) Lanes, 5' Sidewalk, and Curb & Gutter (Includes milling and resurfacing existing pavement) undivided, includes Lt & Rt T Lanes.		\$4,333,650
333321-1-52-07	Add 2 Lanes (6 to 8) Lanes, 5' Sidewalk, and Curb & Gutter (Includes milling and resurfacing existing pavement) undivided, includes Lt & Rt T Lanes.		\$5,276,493

333322-1-52-07	Add 1 Through Lane on Outside (To Existing) with 5' Sidewalk, and Curb & Gutter		\$2,672,457
333323-1-52-07	Add 1 Through Lane on Inside (To Existing) with 5' Sidewalk, and Curb & Gutter		\$1,416,552
333324-1-52-07	Add 300' Exclusive Left Turn Lane		\$307,636
333325-1-52-07	Add 300' Exclusive Right Turn Lane		\$277,180

LRE Project No.	Rural Roadway Arterial (Interstate) (cost per mile)		
333326-1-52-07	New 4-L interstate divided median 10' outside, 4' inside paved shlders		\$5,946,654
333328-1-52-07	Add 2 lanes (4 to 6) Interstate no Interchg or Struct., lanes inside 10' out 4' in shlders		\$5,265,878
333328-2-52-07	Add 2 lanes (6 to 8) Interstate no Interchg or Struct., lanes inside 10' out 4' in shlders		\$5,688,796
333329-1-52-07	Add 2 lanes (4 to 6) Interstate, widen 2 struct to inside, 10' out 4' in shlders, highmast		\$15,298,035
333329-2-52-07	Add 2 lanes (6 to 8) Interstate, widen 2 struct to inside, 10' out 4' in shlders, highmast		\$17,577,185
333330-1-52-07	Add 2 lanes (4 to 6) Interstate widen 3 Struct, widen lanes inside, 10' out 4' in shoulders		\$10,171,309
333330-2-52-07	Add 2 lanes (6 to 8) Interstate widen 3 Struct, widen lanes inside, 10' out 4' in shoulders		\$11,770,816
LRE Project No.	Interchange on Interstate (cost per interchange)		
333331-1-52-07	Interstate Diamond Interchange		\$16,937,223
333332-1-52-07	Partial cloverleaf interchange with 2 loop ramps - Mainline over crossroad		\$38,785,507
333333-1-52-07	Rural Trumpet Interchange - Ramps over crossroad		\$18,876,980
LRE Project No.	Frontage Roads Rural (cost per mile)		
333334-1-52-07	New Construction (1-Lane Roadway) 1 - 12' lane		\$780,536
333335-1-52-07	New Construction (2-Lane Roadway) 2 - 12' lanes		\$1,688,554
LRE Project No.	Roadway Traffic Signals (Per Location / Intersection)		
333341-1-52-07	Strain Poles Flashing Beacon Rural 2 - lane undivided		\$30,390
333342-1-52-07	Strain Poles Flashing Beacon Urban 2 - lane undivided		\$45,713
333343-1-52-07	Strain Poles Flashing Beacon RURAL 4 - lane divided		\$57,141
333344-1-52-07	Strain Poles Flashing Beacon Urban 4 - lane undivided		\$66,966
333347-1-52-07	Mast Arms Signals URBAN 2 - Lane undivided		\$284,760
333348-1-52-07	Mast Arms Signals URBAN 4 - Lane divided		\$326,373
333349-1-52-07	Mast Arms Signals URBAN 6 - Lane divided		\$391,577
333350-1-52-07	Strain Poles Signals Rural 2 - lane undivided		\$115,695
333351-1-52-07	Strain Poles Signals Rural 4 - lane divided		\$193,772
333352-1-52-07	Strain Poles Signals Rural 6 - lane divided		\$251,854
333353-1-52-07	Strain Poles Signals Urban 2 - lane undivided		\$147,188
333354-1-52-07	Strain Poles Signals Urban 4 - lane divided		\$187,274
333355-1-52-07	Strain Poles Signals Urban 6 - lane divided		\$222,923
333356-1-52-07	Mast Arms Signals RURAL 2 - lane undivided		\$243,034
333357-1-52-07	Mast Arms Signals RURAL 4 - lane divided		\$342,815
333358-1-52-07	Mast Arms Signals RURAL 6 - lane divided		\$396,831
LRE Project No.	Roadway Bicycle and Pedestrian Facilities (cost per mile, Sq. Ft., per Int)		
333360-1-52-07	Sidewalks Per Mile (5' Width - 1 Side)		\$226,656
333362-1-52-07	Sidewalks Per Mile (5' Width - Both Sides)		\$445,160
333363-1-52-07	Bike Lane Per Mile (5' Paved Shlders) Both sides		\$200,129

333364-1-52-07	Multi-Use Trail Per Mile (12' Width - 1 Side) off Roadway		\$684,850
333365-1-52-07	Pedestrian Activated Signal Per Intersection 4 - way		\$18,610
333366-1-52-07	Crosswalk per intersection 12" white stripe(Paint / Thermo) 5 - 12' lanes on all quadrants		\$2,593
333375-1-52-07	Pedestrian Overpass with Handicap Ramps per Sq. Ft.		\$225
LRE Project No.	Roadway Stormwater Retention Facilities (Per Pond)		
333370-1-52-07	1 (1.0 Acre Pond Site) complete w/o fencing		\$260,072
333371-1-52-07	1 (2.5 Acre Pond Site) complete w/o fencing		\$461,145
333372-1-52-07	1 (5.0 Acre Pond Site) complete w/o fencing		\$939,236

NOTE:

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| 1. Present Day Cost, based on typical sections component and sub-component details, developed in the LRE system with current bid history |
| 2. Unit prices based on current D-3 market area or county unit price at the pay item level. |
| 3. These cost are not project specific, should be used for preliminary cost only. |
| 4. CEI is normally 15% of the Construction cost, (NOT INCLUDED) . |

District 3 Preliminary Estimates Section
Annual Bridge Cost Per Square Foot
Revised DECEMBER 2016

		Cost Per	Square Foot
New Bridge Construction			Dec-16
Low Level (off system)			\$128
Low Level (on system)			\$124
Medium Level (off system)			\$137
Medium Level (on system)			\$133
High Level (on system)			\$143
Overpass (Over Railroad)			\$380
Overpass (Over Roadway)			\$138
Pedestrian Overpass (Ramps, Full enclosure, Design Build)			\$225
Bridge Removal of (Existing Bridge)			\$35
Bridge Widening			
Low Level			\$140
Mid Level			\$140
High Level			\$190
Overpass (Over Roadway)			\$172
Bridge Removal (Existing Bridge) for widening			\$75

- NOTE:**
1. Present Day Cost, per square foot of deck area, developed in the LRE system with current bid history.
 2. **Excluded** right-of-way cost, roadway approaches, no detour, no guardrail / thrie beam, no CEI.
 3. Market trends impact cost for concrete and steel, labor and materials in the construction industry.
 4. Costs developed for report are not site-specific and should be for preliminary estimating purposes only.
 4. Phase construction add 25% to construction Costs.