

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Interstate Rural - Asphalt Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Temporary Safety Items				
Traffic Barrier service Concrete	LF	\$10.00	996.99	\$9,969.90
Flagger Service	HR	\$10.78	619.51	\$6,678.32
Channelizing Devices	DAY	\$0.79	5455.17	\$4,309.58
Arrow Board, Message Board	HR	\$6.23	1290.66	\$8,040.81
Truck Mounted Attenuator	HR	\$15.94	2.65	\$42.24
Subtotal:				\$29,040.85

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE	\$5,821.62	5.24	\$30,505.29
Regular Excavation	CY	\$11.40	25373.33	\$289,255.96
Subtotal:				\$319,761.25

Drainage Items				
Misc. Concrete	CY	\$923.71	32.18	\$29,724.99
15" Pipe	LF	\$22.02	289.92	\$6,384.04
18" Pipe	LF	\$51.44	246.52	\$12,680.99
36" Pipe	LF	\$89.64	3.35	\$300.29
48" Pipe	LF	\$106.67	53.05	\$5,658.84
Drop Inlets (DI-1, DI-3B DI-7)	EA	\$2,137.06	10.11	\$21,605.68
Eros. Control Stone	TON	\$71.30	308.34	\$21,984.64
Paved Ditch	LF	\$35.05	93.87	\$3,290.14
Subtotal:				\$101,629.61

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Interstate Rural - Asphalt Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Pavement Items				
Blotted Seal Coat Ty. D	SY	\$12.86	0	\$0.00
Cement Stabilized Aggre #21A	Ton	\$21.72	2574	\$55,907.28
Aggr. No. 21B	Ton	\$22.11	2788.5	\$61,653.74
Asphalt Ty. SM-12.5	Ton	\$37.75	1355.2	\$51,158.80
Asphalt Ty. IM-19.0	Ton	\$35.60	774.4	\$27,568.64
Asphalt Ty. BM-25.0	Ton	\$52.45	4646.4	\$243,703.68
Concrete	SY	\$51.00	0	\$0.00
Underdrain (Composite)	LF	\$5.44	2640	\$14,361.60
Pavement Markings (Composite)	LF	\$1.03	5940	\$6,118.20
Raised Pavement Markers (Composite)	EA	\$40.68	32	\$1,301.76
Stab. Open Graded	Ton	\$32.00	13121.7	\$419,894.40
Manipulation	SY	\$0.75	7626.7	\$5,720.03
Cement (6% vol.)	Ton	\$121.50	96.8	\$11,761.20
Subtotal:				\$899,149.32

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY	\$44.10	0	\$0.00
Concrete Curb and Gutter CG-6	LF	\$13.16	0	\$0.00
Concrete Curb	LF	\$11.67	0	\$0.00
Entrance Gutter	SY	\$48.41	0	\$0.00
Right Of Way Monuments	EA	\$84.75	11.06	\$937.34
Guardrail (Composite)	LF	\$13.70	1588.41	\$21,761.22
Guardrail Terminals	EA	\$1,821.11	2.54	\$4,625.62
Median Barrier Walls	LF	\$60.28	0	\$0.00
Sound Barrier	SF	\$20.81	0	\$0.00
Fence (Composite)	LF	\$4.31	2863.19	\$12,340.35
Fence Line Braces	EA	\$282.17	7.87	\$2,220.68
Fence Corner Braces	EA	\$282.62	6.63	\$1,873.77
Subtotal:				\$43,758.97

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Interstate Rural - Asphalt Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Roadside Development				
Seeding (Composite)	LBS	\$13.23	618.2	\$8,178.79
Erosion Control Mulch	SY	\$0.61	2933	\$1,789.13
Temp. Erosion Control (Composite)	LF	\$2.82	5280	\$14,889.60
Siltation Control Excavation	CY	\$17.67	897.6	\$15,860.59
Planting (Composite)	LS	\$23,570.40	1	\$23,570.40
Watering	UNIT	\$71.80	20.92	\$1,502.06
Subtotal:				\$65,790.56

Stormwater Management				
Stormwater Management Excavation	CY	\$4.90	1000	\$4,900.00

Signals and Signs				
Sign Panels	SF	\$24.80	670	\$16,616.00
Sign Posts (Composite wood and steel)	LF	\$17.24	901	\$15,533.24
Intersection Signalization (Composite)	EA	\$117,775.08	0.05	\$5,888.75
Overhead Signing (Composite)	EA	\$65,371.78	0.25	\$16,342.95
Roadway Lighting (Composite)	EA	\$7,443.14	1	\$7,443.14
Traffic Management Systems	EA		0	\$0.00
Subtotal:				\$61,824.08

Utilities (Water and Sewer)				
Water Service Lines (Composite)	LF	\$20.61	49.48	\$1,019.78
Water Mains (Composite)	LF	\$37.47	556.66	\$20,858.05
Sewer Pipe (Composite)	LF	\$61.39	97.66	\$5,995.35
Subtotal:				\$27,873.18
Total:				\$1,553,727.83
add Surveying:				\$17,037.28
add Mobilization:				\$365,382.56

Estimated Cost per Lane Mile --

GRAND TOTAL: \$1,936,147.67

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Interstate Rural - Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Temporary Safety Items				
Traffic Barrier service Concrete	LF	\$10.00	996.99	\$9,969.90
Flagger Service	HR	\$10.78	619.51	\$6,678.32
Channelizing Devices	DAY	\$0.79	5455.17	\$4,309.58
Arrow Board, Message Board	HR	\$6.23	1290.66	\$8,040.81
Truck Mounted Attenuator	HR	\$15.94	2.65	\$42.24
Subtotal:				\$29,040.85

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE	\$5,821.62	5.24	\$30,505.29
Regular Excavation	CY	\$11.40	25373.33	\$289,255.96
Subtotal:				\$319,761.25

Drainage Items				
Misc. Concrete	CY	\$923.71	32.18	\$29,724.99
15" Pipe	LF	\$22.02	289.92	\$6,384.04
18" Pipe	LF	\$51.44	246.52	\$12,680.99
36" Pipe	LF	\$89.64	3.35	\$300.29
48" Pipe	LF	\$106.67	53.05	\$5,658.84
Drop Inlets (DI-1, DI-3B DI-7)	EA	\$2,137.06	10.11	\$21,605.68
Eros. Control Stone	TON	\$71.30	308.34	\$21,984.64
Paved Ditch	LF	\$35.05	93.87	\$3,290.14
Subtotal:				\$101,629.61

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Interstate Rural - Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Pavement Items				
Blotted Seal Coat Ty. D	SY	\$12.86	0	\$0.00
Cement Stabilized Aggre #21A	Ton	\$21.72	2574	\$55,907.28
Aggr. No. 21B	Ton	\$22.11	2574	\$56,911.14
Asphalt Ty. SM-12.5	Ton	\$37.75	580.8	\$21,925.20
Asphalt Ty. IM-19.0	Ton	\$35.60	0	\$0.00
Asphalt Ty. BM-25.0	Ton	\$52.45	1548.8	\$81,234.56
Concrete	SY	\$51.00	7040	\$359,040.00
Underdrain (Composite)	LF	\$5.44	2640	\$14,361.60
Pavement Markings (Composite)	LF	\$1.03	5940	\$6,118.20
Raised Pavement Markers (Composite)	EA	\$40.68	32	\$1,301.76
Stab. Open Graded	Ton	\$32.00	13121.7	\$419,894.40
Manipulation	SY	\$0.75	7626.7	\$5,720.03
Cement (6% vol.)	Ton	\$121.50	96.8	\$11,761.20
Subtotal:				\$1,034,175.37

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY	\$44.10	0	\$0.00
Concrete Curb and Gutter CG-6	LF	\$13.16	0	\$0.00
Concrete Curb	LF	\$11.67	0	\$0.00
Entrance Gutter	SY	\$48.41	0	\$0.00
Right Of Way Monuments	EA	\$84.75	11.06	\$937.34
Guardrail (Composite)	LF	\$13.70	1588.41	\$21,761.22
Guardrail Terminals	EA	\$1,821.11	2.54	\$4,625.62
Median Barrier Walls	LF	\$60.28	0	\$0.00
Sound Barrier	SF	\$20.81	0	\$0.00
Fence (Composite)	LF	\$4.31	2863.19	\$12,340.35
Fence Line Braces	EA	\$282.17	7.87	\$2,220.68
Fence Corner Braces	EA	\$282.62	6.63	\$1,873.77
Subtotal:				\$43,758.97

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Interstate Rural - Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
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Roadside Development				
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Seeding (Composite)	LBS	\$13.23	618.2	\$8,178.79
Erosion Control Mulch	SY	\$0.61	2933	\$1,789.13
Temp. Erosion Control (Composite)	LF	\$2.82	5280	\$14,889.60
Siltation Control Excavation	CY	\$17.67	897.6	\$15,860.59
Planting (Composite)	LS	\$23,570.40	1	\$23,570.40
Watering	UNIT	\$71.80	20.92	\$1,502.06
Subtotal:				\$65,790.56

Stormwater Management				
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Stormwater Management Excavation	CY	\$4.90	1000	\$4,900.00
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Signals and Signs				
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Sign Panels	SF	\$24.80	670	\$16,616.00
Sign Posts (Composite wood and steel)	LF	\$17.24	901	\$15,533.24
Intersection Signalization (Composite)	EA	\$117,775.08	0.05	\$5,888.75
Overhead Signing (Composite)	EA	\$65,371.78	0.25	\$16,342.95
Roadway Lighting (Composite)	EA	\$7,443.14	1	\$7,443.14
Traffic Management Systems	EA		0	\$0.00
Subtotal:				\$61,824.08

Utilities (Water and Sewer)				
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Water Service Lines (Composite)	LF	\$20.61	49.48	\$1,019.78
Water Mains (Composite)	LF	\$37.47	556.66	\$20,858.05
Sewer Pipe (Composite)	LF	\$61.39	97.66	\$5,995.35
Subtotal:				\$27,873.18
Total:				\$1,688,753.88
add Surveying:				\$18,387.54
add Mobilization:				\$433,570.71

Estimated Cost per Lane Mile --

GRAND TOTAL: \$2,140,712.12

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Interstate Urban - Asphalt Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Temporary Safety Items				
Traffic Barrier service Concrete	LF	\$10.00	113.79	\$1,137.90
Flagger Service	HR	\$10.78	461.99	\$4,980.25
Channelizing Devices	DAY	\$0.79	4627.33	\$3,655.59
Arrow Board, Message Board	HR	\$6.23	129.15	\$804.60
Truck Mounted Attenuator	HR	\$15.94	0.67	\$10.68
Subtotal:				\$10,589.03

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE	\$5,821.62	5.24	\$30,505.29
Regular Excavation	CY	\$11.40	25373.33	\$289,255.96
Subtotal:				\$319,761.25

Drainage Items				
Misc. Concrete	CY	923.71	8.76	\$8,091.70
15" Pipe	LF	\$22.02	335.8	\$7,394.32
18" Pipe	LF	\$51.44	75.9	\$3,904.30
36" Pipe	LF	\$89.64	2.17	\$194.52
48" Pipe	LF	\$106.67	170.12	\$18,146.70
Drop Inlets (DI-1, DI-3B DI-7)	EA	\$2,137.06	8.02	\$17,139.22
Eros. Control Stone	TON	\$71.30	180.99	\$12,904.59
Paved Ditch	LF	\$35.05	151.17	\$5,298.51
Subtotal:				\$73,073.85

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Interstate Urban - Asphalt Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Pavement Items				
Blotted Seal Coat Ty. D	SY	\$12.86	0	\$0.00
Cement Stabilized Aggre #21A	Ton	\$21.72	2508.7	\$54,488.96
Aggr. No. 21B	Ton	\$22.11	2788.5	\$61,653.74
Asphalt Ty. SM-12.5	Ton	\$37.75	1161.6	\$43,850.40
Asphalt Ty. IM-19.0	Ton	\$35.60	774.4	\$27,568.64
Asphalt Ty. BM-25.0	Ton	\$52.45	4130.1	\$216,623.75
Concrete	SY	\$51.00	0	\$0.00
Underdrain (Composite)	LF	\$5.44	2640	\$14,361.60
Pavement Markings (Composite)	LF	\$1.03	5940	\$6,118.20
Raised Pavement Markers (Composite)	EA	\$40.68	32	\$1,301.76
Stab. Open Graded	Ton	\$32.00	12788.6	\$409,235.20
Manipulation	SY	\$0.75	7433.1	\$5,574.83
Cement (6% vol.)	Ton	\$121.50	94.3	\$11,457.45
Subtotal:				\$852,234.52

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY	\$44.10	0	\$0.00
Concrete Curb and Gutter CG-6	LF	\$13.16	0	\$0.00
Concrete Curb	LF	\$11.67	0	\$0.00
Entrance Gutter	SY	\$48.41	0	\$0.00
Right Of Way Monuments	EA	\$84.75	8.31	\$704.27
Guardrail (Composite)	LF	\$13.70	790.06	\$10,823.82
Guardrail Terminals	EA	\$1,821.11	11.95	\$21,762.26
Median Barrier Walls	LF	\$60.28	2640	\$159,139.20
Sound Barrier	SF	\$20.81	660	\$13,734.60
Fence (Composite)	LF	\$4.31	61.22	\$263.86
Fence Line Braces	EA	\$262.17	2.05	\$537.45
Fence Corner Braces	EA	\$262.62	0.57	\$149.69
Subtotal:				\$207,115.16

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Interstate Urban - Asphalt Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
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Roadside Development				
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Seeding (Composite)	LBS	\$13.23	193.94	\$2,565.83
Erosion Control Mulch	SY	\$0.61	4693	\$2,862.73
Temp. Erosion Control (Composite)	LF	\$2.82	5280	\$14,889.60
Siltation Control Excavation	CY	\$17.67	897.6	\$15,860.59
Landscaping	LS	\$23,570.40	1	\$23,570.40
Watering	UNIT	\$71.80	20.92	\$1,502.06
Subtotal:				\$61,251.20

Stormwater Management				
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Stormwater Management Excavation	CY	\$4.90	1000	\$4,900.00
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Signals and Signs				
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Sign Panels	SF	\$24.80	1229	\$30,479.20
Sign Posts (Composite wood and steel)	LF	\$17.24	1968	\$33,928.32
Intersection Signalization (Composite)	EA	\$117,775.08	0.1	\$11,777.51
Overhead Signing (Composite)	EA	\$102,919.86	0.5	\$51,459.93
Roadway Lighting (Composite)	EA	\$7,443.14	12	\$89,317.68
Traffic Management Systems	EA	\$161,769.62	1	\$161,769.62
Subtotal:				\$378,732.26

Utilities (Water and Sewer)				
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Water Service Lines (Composite)	LF	\$20.61	0	\$0.00
Water Mains (Composite)	LF	\$37.47	564.06	\$21,135.33
Sewer Pipe (Composite)	LF	\$61.39	121.76	\$7,474.85
Subtotal:				\$28,610.17
Total:				\$1,936,267.44
add Surveying:				\$20,862.67
add Mobilization:				\$558,565.06

Estimated Cost per Lane Mile --

GRAND TOTAL: \$2,515,695.17

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Interstate Urban - Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Temporary Safety Items				
Traffic Barrier service Concrete	LF	\$10.00	113.79	\$1,137.90
Flagger Service	HR	\$10.78	461.99	\$4,980.25
Channelizing Devices	DAY	\$0.79	4627.33	\$3,655.59
Arrow Board, Message Board	HR	\$6.23	129.15	\$804.60
Truck Mounted Attenuator	HR	\$15.94	0.67	\$10.68
Subtotal:				\$10,589.03

Grading (Excavation) Costs				
Clearing and Grubbing (Composit figure)	ACRE	\$5,821.62	5.24	\$30,505.29
Regular Excavation	CY	\$11.40	25373.33	\$289,255.96
Subtotal:				\$319,761.25

Drainage Items				
Misc. Concrete	CY	923.71	8.76	\$8,091.70
15" Pipe	LF	\$22.02	335.8	\$7,394.32
18" Pipe	LF	\$51.44	75.9	\$3,904.30
36" Pipe	LF	\$89.64	2.17	\$194.52
48" Pipe	LF	\$106.67	170.12	\$18,146.70
Drop Inlets (DI-1, DI-3B DI-7)	EA	\$2,137.06	8.02	\$17,139.22
Eros. Control Stone	TON	\$71.30	180.99	\$12,904.59
Paved Ditch	LF	\$35.05	151.17	\$5,298.51
Subtotal:				\$73,073.85

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Interstate Urban - Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Pavement Items				
Blotted Seal Coat Ty. D	SY	\$12.86	0	\$0.00
Cement Stabilized Aggre #21A	Ton	\$21.72	2508.7	\$54,488.96
Aggr. No. 21B	Ton	\$22.11	1584	\$35,022.24
Asphalt Ty. SM-12.5	Ton	\$37.75	387.2	\$14,616.80
Asphalt Ty. IM-19.0	Ton	\$35.60	0	\$0.00
Asphalt Ty. BM-25.0	Ton	\$52.45	1032.5	\$54,154.63
Concrete	SY	\$51.00	7040	\$359,040.00
Underdrain (Composite)	LF	\$5.44	2640	\$14,361.60
Pavement Markings (Composite)	LF	\$1.03	5940	\$6,118.20
Raised Pavement Markers (Composite)	EA	\$40.68	32	\$1,301.76
Stab. Open Graded	Ton	\$32.00	12788.6	\$409,235.20
Manipulation	SY	\$0.75	7433.1	\$5,574.83
Cement (6% vol.)	Ton	\$121.50	94.3	\$11,457.45
Subtotal:				\$965,371.66

Shoulders and Median				
Concrete Entrances (Composite 6" & 7")	SY	\$44.10	0	\$0.00
Concrete Curb and Gutter CG-6	LF	\$13.16	0	\$0.00
Concrete Curb	LF	\$11.67	0	\$0.00
Entrance Gutter	SY	\$48.41	0	\$0.00
Right Of Way Monuments	EA	\$84.75	8.31	\$704.27
Guardrail (Composite)	LF	\$13.70	790.06	\$10,823.82
Guardrail Terminals	EA	\$1,821.11	11.95	\$21,762.26
Median Barrier Walls	LF	\$60.28	2640	\$159,139.20
Sound Barrier	SF	\$20.81	660	\$13,734.60
Fence (Composite)	LF	\$4.31	61.22	\$263.86
Fence Line Braces	EA	\$262.17	2.05	\$537.45
Fence Corner Braces	EA	\$262.62	0.57	\$149.69
Subtotal:				\$207,115.16

Base Values, to inflate for current year values please use rates from <http://www.bls.gov/cpi> .

Interstate Urban - Concrete

Item	Unit	UNIT COST	Units Lane Mile	Avg. Cst Lane Mi.
Roadside Development				
Seeding (Composite)	LBS	\$13.23	193.94	\$2,565.83
Erosion Control Mulch	SY	\$0.61	4693	\$2,862.73
Temp. Erosion Control (Composite)	LF	\$2.82	5280	\$14,889.60
Siltation Control Excavation	CY	\$17.67	897.6	\$15,860.59
Landscaping	LS	\$23,570.40	1	\$23,570.40
Watering	UNIT	\$71.80	20.92	\$1,502.06
Subtotal:				\$61,251.20
Stormwater Management				
Stormwater Management Excavation	CY	\$4.90	1000	\$4,900.00
Signals and Signs				
Sign Panels	SF	\$24.80	1229	\$30,479.20
Sign Posts (Composite wood and steel)	LF	\$17.24	1968	\$33,928.32
Intersection Signalization (Composite)	EA	\$117,775.08	0.1	\$11,777.51
Overhead Signing (Composite)	EA	\$102,919.86	0.5	\$51,459.93
Roadway Lighting (Composite)	EA	\$7,443.14	12	\$89,317.68
Traffic Management Systems	EA	\$161,769.62	1	\$161,769.62
Subtotal:				\$378,732.26
Utilities (Water and Sewer)				
Water Service Lines (Composite)	LF	\$20.61	0	\$0.00
Water Mains (Composite)	LF	\$37.47	564.06	\$21,135.33
Sewer Pipe (Composite)	LF	\$61.39	121.76	\$7,474.85
Subtotal:				\$28,610.17
Total:				\$2,049,404.59
add Surveying:				\$21,994.05
add Mobilization:				\$615,699.32
Estimated Cost per Lane Mile --	GRAND TOTAL:			\$2,687,097.95