



APPENDIX T

OPINION OF PROBABLE COST

COST ESTIMATE SUMMARY

Route:	
Description:	Project #1
County:	
Length:	
Date:	



DESCRIPTION	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Construction Items				
Pavement Removal	\$0	\$0	\$0	\$262,600
Asphalt Paving	\$0	\$0	\$0	\$646,200
Concrete Pavement	\$0	\$0	\$0	\$0
Drainage	\$0	\$0	\$0	\$1,297,100
Appurtenances	\$0	\$0	\$0	\$574,400
Structures	\$0	\$0	\$0	\$39,500
Fencing	\$0	\$0	\$0	\$0
Signalization	\$0	\$0	\$0	\$0
Railroad Crossing or Separation	\$0	\$0	\$0	\$0
Earthwork	\$0	\$0	\$0	\$397,700
Clearing and Grubbing	\$0	\$0	\$0	\$132,200
Seeding & Sodding	\$0	\$0	\$0	\$47,800
Rip-Rap or Slope Protection	\$0	\$0	\$0	\$0
Guardrail	\$0	\$0	\$0	\$46,700
Signing	\$0	\$0	\$0	\$10,500
Pavement Markings	\$0	\$0	\$0	\$85,100
Maintenance of Traffic	\$0	\$0	\$0	\$235,200
Mobilization (5%)	\$0	\$0	\$0	\$188,800
Other Items = 10%	\$0	\$0	\$0	\$396,400
Const. Contingency = 15%	\$0	\$0	\$0	\$648,100
Construction Estimate	\$0	\$0	\$0	\$5,008,300
Interchanges & Unique Intersections				
Roundabouts	\$0	\$0	\$0	\$0
Interchanges	\$0	\$0	\$0	\$0
Right-of-Way & Utilities				
	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Right-of-Way	\$0	\$0	\$0	\$494,200
Utilities	\$0	\$0	\$0	\$994,700
Preliminary & Construction Engineering and Inspection				
Prelim. Eng. 10%	\$0	\$0	\$0	\$649,700
Const. Eng. & Inspec. 10%	\$0	\$0	\$0	\$649,700
Total Project Cost	\$0	\$0	\$0	\$ 7,797,000

DESCRIPTION	% Contribution
Pavement Removal	6.96%
Asphalt Paving	17.12%
Concrete Pavement	0.00%
Drainage	34.36%
Appurtenances	15.22%
Structures	1.05%
Fencing	0.00%
Signalization	0.00%
Railroad Crossing or Separation	0.00%
Earthwork	10.54%
Clearing and Grubbing	3.50%
Seeding & Sodding	1.27%
Rip-Rap or Slope Protection	0.00%
Guardrail	1.24%
Signing	0.28%
Pavement Markings	2.25%
Maintenance of Traffic	6.23%

	Per Mile Cost
\$	10,680,821.92

COST ESTIMATE SUMMARY

Route:	
Description:	Project #2
County:	
Length:	
Date:	



DESCRIPTION	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Construction Items				
Pavement Removal	\$0	\$0	\$0	\$3,200
Asphalt Paving	\$0	\$0	\$0	\$713,700
Concrete Pavement	\$0	\$0	\$0	\$0
Drainage	\$0	\$0	\$0	\$1,017,800
Appurtenances	\$0	\$0	\$0	\$779,900
Structures	\$0	\$0	\$0	\$272,000
Fencing	\$0	\$0	\$0	\$0
Signalization	\$0	\$0	\$0	\$610,400
Railroad Crossing or Separation	\$0	\$0	\$0	\$0
Earthwork	\$0	\$0	\$0	\$436,900
Clearing and Grubbing	\$0	\$0	\$0	\$132,200
Seeding & Sodding	\$0	\$0	\$0	\$55,100
Rip-Rap or Slope Protection	\$0	\$0	\$0	\$0
Guardrail	\$0	\$0	\$0	\$88,700
Signing	\$0	\$0	\$0	\$11,200
Pavement Markings	\$0	\$0	\$0	\$60,500
Maintenance of Traffic	\$0	\$0	\$0	\$246,300
Mobilization (5%)	\$0	\$0	\$0	\$221,400
Other Items = 10%	\$0	\$0	\$0	\$464,900
Const. Contingency = 15%	\$0	\$0	\$0	\$726,300
Construction Estimate	\$0	\$0	\$0	\$5,840,500
Interchanges & Unique Intersections				
Roundabouts	\$0	\$0	\$0	\$0
Interchanges	\$0	\$0	\$0	\$0
Right-of-Way & Utilities				
	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Right-of-Way	\$0	\$0	\$0	\$587,000
Utilities	\$0	\$0	\$0	\$994,700
Preliminary & Construction Engineering and Inspection				
Prelim. Eng. 10%	\$0	\$0	\$0	\$742,200
Const. Eng. & Inspec. 10%	\$0	\$0	\$0	\$742,200
Total Project Cost	\$0	\$0	\$0	\$ 8,907,000

DESCRIPTION	% Contribution
Pavement Removal	0.07%
Asphalt Paving	16.12%
Concrete Pavement	0.00%
Drainage	22.99%
Appurtenances	17.61%
Structures	6.14%
Fencing	0.00%
Signalization	13.79%
Railroad Crossing or Separation	0.00%
Earthwork	9.87%
Clearing and Grubbing	2.99%
Seeding & Sodding	1.24%
Rip-Rap or Slope Protection	0.00%
Guardrail	2.00%
Signing	0.25%
Pavement Markings	1.37%
Maintenance of Traffic	5.56%

Per Mile Cost	\$ 6,100,684.93
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COST ESTIMATE SUMMARY

Route:		
Description:	Project #10	
County:		
Length:		
Date:		

DESCRIPTION	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Construction Items				
Pavement Removal	\$0	\$0	\$0	\$195,200
Asphalt Paving	\$0	\$0	\$0	\$652,800
Concrete Pavement	\$0	\$0	\$0	\$0
Drainage	\$0	\$0	\$0	\$842,900
Appurtenances	\$0	\$0	\$0	\$605,800
Structures	\$0	\$0	\$0	\$39,500
Fencing	\$0	\$0	\$0	\$0
Signalization	\$0	\$0	\$0	\$433,800
Railroad Crossing or Separation	\$0	\$0	\$0	\$0
Earthwork	\$0	\$0	\$0	\$258,400
Clearing and Grubbing	\$0	\$0	\$0	\$66,100
Seeding & Sodding	\$0	\$0	\$0	\$75,200
Rip-Rap or Slope Protection	\$0	\$0	\$0	\$0
Guardrail	\$0	\$0	\$0	\$65,700
Signing	\$0	\$0	\$0	\$3,200
Pavement Markings	\$0	\$0	\$0	\$62,200
Maintenance of Traffic	\$0	\$0	\$0	\$235,700
Mobilization (5%)	\$0	\$0	\$0	\$176,800
Other Items = 10%	\$0	\$0	\$0	\$371,300
Const. Contingency = 15%	\$0	\$0	\$0	\$606,800
Construction Estimate	\$0	\$0	\$0	\$4,691,400
Interchanges & Unique Intersections				
Roundabouts	\$0	\$0	\$0	\$0
Interchanges	\$0	\$0	\$0	\$0
Right-of-Way & Utilities				
	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Right-of-Way	\$0	\$0	\$0	\$295,800
Utilities	\$0	\$0	\$0	\$695,600
Preliminary & Construction Engineering and Inspection				
Prelim. Eng. 10%	\$0	\$0	\$0	\$568,300
Const. Eng. & Inspec. 10%	\$0	\$0	\$0	\$568,300
Total Project Cost	\$0	\$0	\$0	\$ 6,819,000

% Contribution	
Pavement Removal	5.52%
Asphalt Paving	18.46%
Concrete Pavement	0.00%
Drainage	23.83%
Appurtenances	17.13%
Structures	1.12%
Fencing	0.00%
Signalization	12.27%
Railroad Crossing or Separation	0.00%
Earthwork	7.31%
Clearing and Grubbing	1.87%
Seeding & Sodding	2.13%
Rip-Rap or Slope Protection	0.00%
Guardrail	1.86%
Signing	0.09%
Pavement Markings	1.76%
Maintenance of Traffic	6.66%

Per Mile Cost	
\$	6,685,294.12

COST ESTIMATE SUMMARY

Route:	
Description:	Project #16
County:	
Length:	
Date:	



DESCRIPTION	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Construction Items				
Pavement Removal	\$0	\$0	\$0	\$126,300
Asphalt Paving	\$0	\$0	\$0	\$377,000
Concrete Pavement	\$0	\$0	\$0	\$0
Drainage	\$0	\$0	\$0	\$564,400
Appurtenances	\$0	\$0	\$0	\$407,600
Structures	\$0	\$0	\$0	\$39,500
Fencing	\$0	\$0	\$0	\$0
Signalization	\$0	\$0	\$0	\$265,000
Railroad Crossing or Separation	\$0	\$0	\$0	\$0
Earthwork	\$0	\$0	\$0	\$214,600
Clearing and Grubbing	\$0	\$0	\$0	\$66,100
Seeding & Sodding	\$0	\$0	\$0	\$21,800
Rip-Rap or Slope Protection	\$0	\$0	\$0	\$0
Guardrail	\$0	\$0	\$0	\$38,200
Signing	\$0	\$0	\$0	\$2,100
Pavement Markings	\$0	\$0	\$0	\$26,000
Maintenance of Traffic	\$0	\$0	\$0	\$223,000
Mobilization (5%)	\$0	\$0	\$0	\$118,600
Other Items = 10%	\$0	\$0	\$0	\$249,000
Const. Contingency = 15%	\$0	\$0	\$0	\$405,000
Construction Estimate	\$0	\$0	\$0	\$3,144,200
Interchanges & Unique Intersections				
Roundabouts	\$0	\$0	\$0	\$0
Interchanges	\$0	\$0	\$0	\$0
Right-of-Way & Utilities				
	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Right-of-Way	\$0	\$0	\$0	\$154,400
Utilities	\$0	\$0	\$0	\$388,400
Preliminary & Construction Engineering and Inspection				
Prelim. Eng. 10%	\$0	\$0	\$0	\$368,700
Const. Eng. & Inspec. 10%	\$0	\$0	\$0	\$368,700
Total Project Cost	\$0	\$0	\$0	\$ 4,424,000

DESCRIPTION	% Contribution
Pavement Removal	5.33%
Asphalt Paving	15.90%
Concrete Pavement	0.00%
Drainage	23.80%
Appurtenances	17.19%
Structures	1.67%
Fencing	0.00%
Signalization	11.17%
Railroad Crossing or Separation	0.00%
Earthwork	9.05%
Clearing and Grubbing	2.79%
Seeding & Sodding	0.92%
Rip-Rap or Slope Protection	0.00%
Guardrail	1.61%
Signing	0.09%
Pavement Markings	1.10%
Maintenance of Traffic	9.40%

	Per Mile Cost
\$ 4,424,000	\$ 7,761,403.51

COST ESTIMATE SUMMARY

Route:	
Description:	Project #17
County:	
Length:	
Date:	



DESCRIPTION	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Construction Items				
Pavement Removal	\$0	\$0	\$0	\$207,200
Asphalt Paving	\$0	\$0	\$0	\$155,100
Concrete Pavement	\$0	\$0	\$0	\$0
Drainage	\$0	\$0	\$0	\$336,400
Appurtenances	\$0	\$0	\$0	\$173,900
Structures	\$0	\$0	\$0	\$39,500
Fencing	\$0	\$0	\$0	\$0
Signalization	\$0	\$0	\$0	\$265,000
Railroad Crossing or Separation	\$0	\$0	\$0	\$0
Earthwork	\$0	\$0	\$0	\$308,100
Clearing and Grubbing	\$0	\$0	\$0	\$66,100
Seeding & Sodding	\$0	\$0	\$0	\$17,500
Rip-Rap or Slope Protection	\$0	\$0	\$0	\$0
Guardrail	\$0	\$0	\$0	\$0
Signing	\$0	\$0	\$0	\$1,600
Pavement Markings	\$0	\$0	\$0	\$9,400
Maintenance of Traffic	\$0	\$0	\$0	\$216,200
Mobilization (5%)	\$0	\$0	\$0	\$89,800
Other Items = 10%	\$0	\$0	\$0	\$188,600
Const. Contingency = 15%	\$0	\$0	\$0	\$305,200
Construction Estimate	\$0	\$0	\$0	\$2,379,600
Interchanges & Unique Intersections				
Roundabouts	\$0	\$0	\$0	\$0
Interchanges	\$0	\$0	\$0	\$0
Right-of-Way & Utilities				
	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Right-of-Way	\$0	\$0	\$0	\$0
Utilities	\$0	\$0	\$0	\$408,800
Preliminary & Construction Engineering and Inspection				
Prelim. Eng. 10%	\$0	\$0	\$0	\$278,800
Const. Eng. & Inspec. 10%	\$0	\$0	\$0	\$278,800
Total Project Cost	\$0	\$0	\$0	\$ 3,346,000

DESCRIPTION	% Contribution
Pavement Removal	11.54%
Asphalt Paving	8.64%
Concrete Pavement	0.00%
Drainage	18.73%
Appurtenances	9.68%
Structures	2.20%
Fencing	0.00%
Signalization	14.76%
Railroad Crossing or Separation	0.00%
Earthwork	17.15%
Clearing and Grubbing	3.68%
Seeding & Sodding	0.97%
Rip-Rap or Slope Protection	0.00%
Guardrail	0.00%
Signing	0.09%
Pavement Markings	0.52%
Maintenance of Traffic	12.04%

	Per Mile Cost
\$	11,153,333.33

COST ESTIMATE SUMMARY

Route:	
Description:	Project #24
County:	
Length:	
Date:	



DESCRIPTION	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Construction Items				
Pavement Removal	\$0	\$0	\$0	\$303,200
Asphalt Paving	\$0	\$0	\$0	\$1,302,200
Concrete Pavement	\$0	\$0	\$0	\$0
Drainage	\$0	\$0	\$0	\$905,600
Appurtenances	\$0	\$0	\$0	\$592,000
Structures	\$0	\$0	\$0	\$823,300
Fencing	\$0	\$0	\$0	\$0
Signalization	\$0	\$0	\$0	\$1,164,100
Railroad Crossing or Separation	\$0	\$0	\$0	\$0
Earthwork	\$0	\$0	\$0	\$767,700
Clearing and Grubbing	\$0	\$0	\$0	\$264,400
Seeding & Sodding	\$0	\$0	\$0	\$102,400
Rip-Rap or Slope Protection	\$0	\$0	\$0	\$0
Guardrail	\$0	\$0	\$0	\$149,900
Signing	\$0	\$0	\$0	\$13,500
Pavement Markings	\$0	\$0	\$0	\$90,600
Maintenance of Traffic	\$0	\$0	\$0	\$263,700
Mobilization (5%)	\$0	\$0	\$0	\$337,100
Other Items = 10%	\$0	\$0	\$0	\$708,000
Const. Contingency = 15%	\$0	\$0	\$0	\$1,044,700
Construction Estimate	\$0	\$0	\$0	\$8,832,400
Interchanges & Unique Intersections				
Roundabouts	\$0	\$0	\$0	\$0
Interchanges	\$0	\$0	\$0	\$0
Right-of-Way & Utilities	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Right-of-Way	\$0	\$0	\$0	\$0
Utilities	\$0	\$0	\$0	\$1,907,700
Preliminary & Construction Engineering and Inspection				
Prelim. Eng. 9%	\$0	\$0	\$0	\$993,300
Const. Eng. & Inspec. 10%	\$0	\$0	\$0	\$1,074,000
Total Project Cost	\$0	\$0	\$0	\$ 12,807,000

DESCRIPTION	% Contribution
Pavement Removal	4.50%
Asphalt Paving	19.31%
Concrete Pavement	0.00%
Drainage	13.43%
Appurtenances	8.78%
Structures	12.21%
Fencing	0.00%
Signalization	17.26%
Railroad Crossing or Separation	0.00%
Earthwork	11.39%
Clearing and Grubbing	3.92%
Seeding & Sodding	1.52%
Rip-Rap or Slope Protection	0.00%
Guardrail	2.22%
Signing	0.20%
Pavement Markings	1.34%
Maintenance of Traffic	3.91%

Per Mile Cost	\$ 9,147,857.14
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COST ESTIMATE SUMMARY

Route:	
Description:	Project #25
County:	
Length:	
Date:	



DESCRIPTION	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Construction Items				
Pavement Removal	\$0	\$0	\$0	\$14,400
Asphalt Paving	\$0	\$0	\$0	\$180,000
Concrete Pavement	\$0	\$0	\$0	\$0
Drainage	\$0	\$0	\$0	\$115,100
Appurtenances	\$0	\$0	\$0	\$387,700
Structures	\$0	\$0	\$0	\$39,500
Fencing	\$0	\$0	\$0	\$0
Signalization	\$0	\$0	\$0	\$0
Railroad Crossing or Separation	\$0	\$0	\$0	\$0
Earthwork	\$0	\$0	\$0	\$112,500
Clearing and Grubbing	\$0	\$0	\$0	\$66,100
Seeding & Sodding	\$0	\$0	\$0	\$53,000
Rip-Rap or Slope Protection	\$0	\$0	\$0	\$0
Guardrail	\$0	\$0	\$0	\$0
Signing	\$0	\$0	\$0	\$8,100
Pavement Markings	\$0	\$0	\$0	\$5,900
Maintenance of Traffic	\$0	\$0	\$0	\$144,100
Mobilization (5%)	\$0	\$0	\$0	\$56,300
Other Items = 10%	\$0	\$0	\$0	\$118,300
Const. Contingency = 15%	\$0	\$0	\$0	\$189,200
Construction Estimate	\$0	\$0	\$0	\$1,490,200
Interchanges & Unique Intersections				
Roundabouts	\$0	\$0	\$0	\$0
Interchanges	\$0	\$0	\$0	\$0
Right-of-Way & Utilities				
	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Right-of-Way	\$0	\$0	\$0	\$0
Utilities	\$0	\$0	\$0	\$187,500
Preliminary & Construction Engineering and Inspection				
Prelim. Eng. 10%	\$0	\$0	\$0	\$167,800
Const. Eng. & Inspec. 10%	\$0	\$0	\$0	\$167,800
Total Project Cost	\$0	\$0	\$0	\$ 2,013,000

% Contribution	
	1.28%
	15.98%
	0.00%
	10.22%
	34.42%
	3.51%
	0.00%
	0.00%
	0.00%
	9.99%
	5.87%
	4.71%
	0.00%
	0.00%
	0.72%
	0.52%
	12.79%

Per Mile Cost	
\$	1,437,857.14

COST ESTIMATE SUMMARY

Route:	
Description:	Project #30
County:	
Length:	
Date:	



DESCRIPTION	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Construction Items				
Pavement Removal	\$0	\$0	\$0	\$140,000
Asphalt Paving	\$0	\$0	\$0	\$831,900
Concrete Pavement	\$0	\$0	\$0	\$0
Drainage	\$0	\$0	\$0	\$594,800
Appurtenances	\$0	\$0	\$0	\$334,600
Structures	\$0	\$0	\$0	\$610,100
Fencing	\$0	\$0	\$0	\$0
Signalization	\$0	\$0	\$0	\$730,300
Railroad Crossing or Separation	\$0	\$0	\$0	\$0
Earthwork	\$0	\$0	\$0	\$257,600
Clearing and Grubbing	\$0	\$0	\$0	\$79,400
Seeding & Sodding	\$0	\$0	\$0	\$28,600
Rip-Rap or Slope Protection	\$0	\$0	\$0	\$0
Guardrail	\$0	\$0	\$0	\$54,700
Signing	\$0	\$0	\$0	\$10,800
Pavement Markings	\$0	\$0	\$0	\$69,500
Maintenance of Traffic	\$0	\$0	\$0	\$238,000
Mobilization (5%)	\$0	\$0	\$0	\$199,000
Other Items = 10%	\$0	\$0	\$0	\$417,900
Const. Contingency = 15%	\$0	\$0	\$0	\$598,100
Construction Estimate	\$0	\$0	\$0	\$5,195,300
Interchanges & Unique Intersections				
Roundabouts	\$0	\$0	\$0	\$0
Interchanges	\$0	\$0	\$0	\$0
Right-of-Way & Utilities				
	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Right-of-Way	\$0	\$0	\$0	\$0
Utilities	\$0	\$0	\$0	\$1,199,100
Preliminary & Construction Engineering and Inspection				
Prelim. Eng. 10%	\$0	\$0	\$0	\$639,400
Const. Eng. & Inspec. 10%	\$0	\$0	\$0	\$639,400
Total Project Cost	\$0	\$0	\$0	\$ 7,673,000

% Contribution	
Pavement Removal	3.52%
Asphalt Paving	20.90%
Concrete Pavement	0.00%
Drainage	14.94%
Appurtenances	8.41%
Structures	15.33%
Fencing	0.00%
Signalization	18.35%
Railroad Crossing or Separation	0.00%
Earthwork	6.47%
Clearing and Grubbing	1.99%
Seeding & Sodding	0.72%
Rip-Rap or Slope Protection	0.00%
Guardrail	1.37%
Signing	0.27%
Pavement Markings	1.75%
Maintenance of Traffic	5.98%

Per Mile Cost	
\$	8,719,318.18

COST ESTIMATE SUMMARY

Route:	
Description:	Project #31
County:	
Length:	
Date:	



DESCRIPTION	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Construction Items				
Pavement Removal	\$0	\$0	\$0	\$9,100
Asphalt Paving	\$0	\$0	\$0	\$114,500
Concrete Pavement	\$0	\$0	\$0	\$0
Drainage	\$0	\$0	\$0	\$17,500
Appurtenances	\$0	\$0	\$0	\$267,500
Structures	\$0	\$0	\$0	\$39,500
Fencing	\$0	\$0	\$0	\$0
Signalization	\$0	\$0	\$0	\$0
Railroad Crossing or Separation	\$0	\$0	\$0	\$0
Earthwork	\$0	\$0	\$0	\$112,500
Clearing and Grubbing	\$0	\$0	\$0	\$66,100
Seeding & Sodding	\$0	\$0	\$0	\$33,500
Rip-Rap or Slope Protection	\$0	\$0	\$0	\$0
Guardrail	\$0	\$0	\$0	\$0
Signing	\$0	\$0	\$0	\$7,800
Pavement Markings	\$0	\$0	\$0	\$5,100
Maintenance of Traffic	\$0	\$0	\$0	\$39,900
Mobilization (5%)	\$0	\$0	\$0	\$35,700
Other Items = 10%	\$0	\$0	\$0	\$74,900
Const. Contingency = 15%	\$0	\$0	\$0	\$117,600
Construction Estimate	\$0	\$0	\$0	\$941,200
Interchanges & Unique Intersections				
Roundabouts	\$0	\$0	\$0	\$0
Interchanges	\$0	\$0	\$0	\$0
Right-of-Way & Utilities				
	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Right-of-Way	\$0	\$0	\$0	\$0
Utilities	\$0	\$0	\$0	\$150,000
Preliminary & Construction Engineering and Inspection				
Prelim. Eng. 10%	\$0	\$0	\$0	\$109,100
Const. Eng. & Inspec. 10%	\$0	\$0	\$0	\$109,100
Total Project Cost	\$0	\$0	\$0	\$ 1,309,000

DESCRIPTION	% Contribution
Pavement Removal	1.28%
Asphalt Paving	16.06%
Concrete Pavement	0.00%
Drainage	2.45%
Appurtenances	37.52%
Structures	5.54%
Fencing	0.00%
Signalization	0.00%
Railroad Crossing or Separation	0.00%
Earthwork	15.78%
Clearing and Grubbing	9.27%
Seeding & Sodding	4.70%
Rip-Rap or Slope Protection	0.00%
Guardrail	0.00%
Signing	1.09%
Pavement Markings	0.72%
Maintenance of Traffic	5.60%

Per Mile Cost	\$ 1,487,500.00
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COST ESTIMATE SUMMARY

Route:	
Description:	Project #39
County:	
Length:	
Date:	



DESCRIPTION	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Construction Items				
Pavement Removal	\$0	\$0	\$0	\$194,900
Asphalt Paving	\$0	\$0	\$0	\$1,024,700
Concrete Pavement	\$0	\$0	\$0	\$0
Drainage	\$0	\$0	\$0	\$884,800
Appurtenances	\$0	\$0	\$0	\$351,200
Structures	\$0	\$0	\$0	\$1,053,500
Fencing	\$0	\$0	\$0	\$0
Signalization	\$0	\$0	\$0	\$867,600
Railroad Crossing or Separation	\$0	\$0	\$0	\$0
Earthwork	\$0	\$0	\$0	\$527,700
Clearing and Grubbing	\$0	\$0	\$0	\$132,200
Seeding & Sodding	\$0	\$0	\$0	\$67,900
Rip-Rap or Slope Protection	\$0	\$0	\$0	\$0
Guardrail	\$0	\$0	\$0	\$130,100
Signing	\$0	\$0	\$0	\$12,300
Pavement Markings	\$0	\$0	\$0	\$48,300
Maintenance of Traffic	\$0	\$0	\$0	\$110,000
Mobilization (5%)	\$0	\$0	\$0	\$270,300
Other Items = 10%	\$0	\$0	\$0	\$567,600
Const. Contingency = 15%	\$0	\$0	\$0	\$778,400
Construction Estimate	\$0	\$0	\$0	\$7,021,500
Interchanges & Unique Intersections				
Roundabouts	\$0	\$0	\$0	\$0
Interchanges	\$0	\$0	\$0	\$0
Right-of-Way & Utilities				
	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Right-of-Way	\$0	\$0	\$0	\$0
Utilities	\$0	\$0	\$0	\$1,767,300
Preliminary & Construction Engineering and Inspection				
Prelim. Eng. 10%	\$0	\$0	\$0	\$878,900
Const. Eng. & Inspec. 10%	\$0	\$0	\$0	\$878,900
Total Project Cost	\$0	\$0	\$0	\$ 10,547,000

% Contribution	
Pavement Removal	3.61%
Asphalt Paving	18.96%
Concrete Pavement	0.00%
Drainage	16.37%
Appurtenances	6.50%
Structures	19.49%
Fencing	0.00%
Signalization	16.05%
Railroad Crossing or Separation	0.00%
Earthwork	9.76%
Clearing and Grubbing	2.45%
Seeding & Sodding	1.26%
Rip-Rap or Slope Protection	0.00%
Guardrail	2.41%
Signing	0.23%
Pavement Markings	0.89%
Maintenance of Traffic	2.04%

Per Mile Cost	
\$	10,239,805.83

COST ESTIMATE SUMMARY

Route:	
Description:	Project #40
County:	
Length:	
Date:	



DESCRIPTION	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Construction Items				
Pavement Removal	\$0	\$0	\$0	\$9,100
Asphalt Paving	\$0	\$0	\$0	\$125,500
Concrete Pavement	\$0	\$0	\$0	\$0
Drainage	\$0	\$0	\$0	\$19,500
Appurtenances	\$0	\$0	\$0	\$266,400
Structures	\$0	\$0	\$0	\$39,500
Fencing	\$0	\$0	\$0	\$0
Signalization	\$0	\$0	\$0	\$0
Railroad Crossing or Separation	\$0	\$0	\$0	\$0
Earthwork	\$0	\$0	\$0	\$112,500
Clearing and Grubbing	\$0	\$0	\$0	\$66,100
Seeding & Sodding	\$0	\$0	\$0	\$39,200
Rip-Rap or Slope Protection	\$0	\$0	\$0	\$0
Guardrail	\$0	\$0	\$0	\$0
Signing	\$0	\$0	\$0	\$7,800
Pavement Markings	\$0	\$0	\$0	\$6,000
Maintenance of Traffic	\$0	\$0	\$0	\$36,400
Mobilization (5%)	\$0	\$0	\$0	\$36,400
Other Items = 10%	\$0	\$0	\$0	\$76,400
Const. Contingency = 15%	\$0	\$0	\$0	\$120,200
Construction Estimate	\$0	\$0	\$0	\$961,000
Interchanges & Unique Intersections				
Roundabouts	\$0	\$0	\$0	\$0
Interchanges	\$0	\$0	\$0	\$0
Right-of-Way & Utilities	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Right-of-Way	\$0	\$0	\$0	\$0
Utilities	\$0	\$0	\$0	\$150,000
Preliminary & Construction Engineering and Inspection				
Prelim. Eng. 10%	\$0	\$0	\$0	\$111,100
Const. Eng. & Inspec. 10%	\$0	\$0	\$0	\$111,100
Total Project Cost	\$0	\$0	\$0	\$ 1,333,000

% Contribution
1.25%
17.24%
0.00%
2.68%
36.59%
5.43%
0.00%
0.00%
0.00%
15.45%
9.08%
5.38%
0.00%
0.00%
1.07%
0.82%
5.00%

Per Mile Cost
\$ 1,294,174.76

COST ESTIMATE SUMMARY

Route:	
Description:	Project #43
County:	
Length:	
Date:	



DESCRIPTION	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Construction Items				
Pavement Removal	\$0	\$0	\$0	\$560,700
Asphalt Paving	\$0	\$0	\$0	\$1,299,900
Concrete Pavement	\$0	\$0	\$0	\$30,400
Drainage	\$0	\$0	\$0	\$729,000
Appurtenances	\$0	\$0	\$0	\$375,400
Structures	\$0	\$0	\$0	\$39,500
Fencing	\$0	\$0	\$0	\$0
Signalization	\$0	\$0	\$0	\$0
Railroad Crossing or Separation	\$0	\$0	\$0	\$0
Earthwork	\$0	\$0	\$0	\$300,300
Clearing and Grubbing	\$0	\$0	\$0	\$66,100
Seeding & Sodding	\$0	\$0	\$0	\$47,200
Rip-Rap or Slope Protection	\$0	\$0	\$0	\$0
Guardrail	\$0	\$0	\$0	\$72,000
Signing	\$0	\$0	\$0	\$10,600
Pavement Markings	\$0	\$0	\$0	\$53,500
Maintenance of Traffic	\$0	\$0	\$0	\$97,600
Mobilization (5%)	\$0	\$0	\$0	\$184,100
Other Items = 10%	\$0	\$0	\$0	\$386,600
Const. Contingency = 15%	\$0	\$0	\$0	\$632,000
Construction Estimate	\$0	\$0	\$0	\$4,884,900
Interchanges & Unique Intersections				
Roundabouts	\$0	\$0	\$0	\$0
Interchanges	\$0	\$0	\$0	\$0
Right-of-Way & Utilities				
	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Right-of-Way	\$0	\$0	\$0	\$0
Utilities	\$0	\$0	\$0	\$1,553,400
Preliminary & Construction Engineering and Inspection				
Prelim. Eng. 10%	\$0	\$0	\$0	\$643,800
Const. Eng. & Inspec. 10%	\$0	\$0	\$0	\$643,800
Total Project Cost	\$0	\$0	\$0	\$ 7,726,000

% Contribution	
Pavement Removal	15.23%
Asphalt Paving	35.30%
Concrete Pavement	0.83%
Drainage	19.80%
Appurtenances	10.19%
Structures	1.07%
Fencing	0.00%
Signalization	0.00%
Railroad Crossing or Separation	0.00%
Earthwork	8.16%
Clearing and Grubbing	1.80%
Seeding & Sodding	1.28%
Rip-Rap or Slope Protection	0.00%
Guardrail	1.96%
Signing	0.29%
Pavement Markings	1.45%
Maintenance of Traffic	2.65%

Per Mile Cost	
\$	6,777,192.98

COST ESTIMATE SUMMARY

Route:	
Description:	Project #44
County:	
Length:	
Date:	



DESCRIPTION	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Construction Items				
Pavement Removal	\$0	\$0	\$0	\$9,100
Asphalt Paving	\$0	\$0	\$0	\$144,200
Concrete Pavement	\$0	\$0	\$0	\$0
Drainage	\$0	\$0	\$0	\$24,800
Appurtenances	\$0	\$0	\$0	\$290,000
Structures	\$0	\$0	\$0	\$39,500
Fencing	\$0	\$0	\$0	\$0
Signalization	\$0	\$0	\$0	\$948,200
Railroad Crossing or Separation	\$0	\$0	\$0	\$0
Earthwork	\$0	\$0	\$0	\$112,500
Clearing and Grubbing	\$0	\$0	\$0	\$66,100
Seeding & Sodding	\$0	\$0	\$0	\$43,300
Rip-Rap or Slope Protection	\$0	\$0	\$0	\$0
Guardrail	\$0	\$0	\$0	\$0
Signing	\$0	\$0	\$0	\$8,800
Pavement Markings	\$0	\$0	\$0	\$9,100
Maintenance of Traffic	\$0	\$0	\$0	\$82,900
Mobilization (5%)	\$0	\$0	\$0	\$88,900
Other Items = 10%	\$0	\$0	\$0	\$186,700
Const. Contingency = 15%	\$0	\$0	\$0	\$302,200
Construction Estimate	\$0	\$0	\$0	\$2,356,300
Interchanges & Unique Intersections				
Roundabouts	\$0	\$0	\$0	\$0
Interchanges	\$0	\$0	\$0	\$0
Right-of-Way & Utilities				
	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	
Right-of-Way	\$0	\$0	\$0	\$102,900
Utilities	\$0	\$0	\$0	\$187,500
Preliminary & Construction Engineering and Inspection				
Prelim. Eng. 10%	\$0	\$0	\$0	\$264,700
Const. Eng. & Inspec. 10%	\$0	\$0	\$0	\$264,700
Total Project Cost	\$0	\$0	\$0	\$ 3,176,000

DESCRIPTION	% Contribution
Pavement Removal	0.51%
Asphalt Paving	8.11%
Concrete Pavement	0.00%
Drainage	1.39%
Appurtenances	16.31%
Structures	2.22%
Fencing	0.00%
Signalization	53.31%
Railroad Crossing or Separation	0.00%
Earthwork	6.33%
Clearing and Grubbing	3.72%
Seeding & Sodding	2.43%
Rip-Rap or Slope Protection	0.00%
Guardrail	0.00%
Signing	0.49%
Pavement Markings	0.51%
Maintenance of Traffic	4.66%
Mobilization (5%)	
Other Items = 10%	
Const. Contingency = 15%	
Construction Estimate	

	Per Mile Cost
\$	2,785,964.91