

Preliminary Cost Estimate

Alternative 1

PROJECT:	Chesterville-Farmington, Farmington falls Bridge #2273	WIN:	22296.00							
Alternative 1:	Bridge Replacement: [Off alignment 2 span welded steel with cast in place concrete deck] Construction Type Deck Area: 230' x 38.333' = 8,817 SF	ESTIMATED BY:	DCE							
SUPERSTRUCTURE:										
	<u>8,817</u>	SF	×	<u>\$137.00</u>	=	<u>\$1,208,000</u>				
ABUTMENTS	<u>2</u>	EA	×	<u>\$369,000.00</u>	=	<u>\$738,000</u>				
PIERS	<u>1</u>	EA	×	<u>\$224,000.00</u>	=	<u>\$224,000</u>				
COFFERDAMS	<u>6</u>	EA	×	<u>\$120,000.00</u>	=	<u>\$720,000</u>				
STRUCTURAL EXCAVATION & BORROW	<u>1,000</u>	CY	×	<u>\$40.00</u>	=	<u>\$40,000</u>				
PLAIN RIPRAP	<u>550</u>	CY	×	<u>\$60.00</u>	=	<u>\$33,000</u>				
EXISTING BRIDGE REMOVAL	<u>1</u>	LS	×	<u>\$400,000.00</u>	=	<u>\$400,000</u>				
DETOUR AND/OR TEMPORARY BRIDGE	<u>N/A</u>	LS	×	<u>N/A</u>	=	<u>\$0</u>				
REHABILITATION CONTINGENCIES				<u>2%</u>	=	<u>\$68,000</u>				
MISCELLANEOUS (TCP'S, FIELD OFFICE, ETC.)				<u>10%</u>	=	<u>\$337,000</u>				
MOBILIZATION				<u>10%</u>	=	<u>\$337,000</u>				
STRUCTURE SUBTOTAL					=	\$4,110,000				
APPROACHES				<u>1090</u>	LF	×	<u>\$420.00</u>	=	<u>\$458,000</u>	
MISCELLANEOUS							<u>7%</u>	=	<u>\$33,000</u>	
MOBILIZATION							<u>10%</u>	=	<u>\$46,000</u>	
APPROACHES SUBTOTAL								=	\$540,000	
TOTAL CONSTRUCTION COST								=	\$4,700,000	
PRELIMINARY ENGINEERING								<u>13%</u>	=	<u>\$600,000</u>
RIGHT OF WAY									=	<u>\$100,000</u>
CONSTRUCTION ENGINEERING								<u>13%</u>	=	<u>\$600,000</u>
OTHER:									=	<u>\$0</u>
TOTAL PROJECT COST								=	\$6,000,000	

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Alternative 1

PROJECT:	Jim Pond Twp, Alder Stream Bridge #3265	WIN:	10000.00
Alternative 1:	Bridge Replacement: 150' Steel Bridge on Integral Abutments Deck Area: 150' x 32' = 6,000 SF Maintain traffic with temporary bridge	ESTIMATED BY:	JAF
SUPERSTRUCTURE: Weathering steel or metalized w/ composite deck	<u>4,800</u> SF	×	<u>\$170.00</u> = <u>\$816,000</u>
ABUTMENTS: Integral abutments	<u>4,800</u> EA	×	<u>\$65.00</u> = <u>\$312,000</u>
COFFERDAMS	<u>2</u> EA	×	<u>\$25,000.00</u> = <u>\$50,000</u>
STRUCTURAL EXCAVATION & BORROW	<u>900</u> CY	×	<u>\$70.00</u> = <u>\$63,000</u>
PLAIN RIPRAP	<u>2,400</u> CY	×	<u>\$70.00</u> = <u>\$168,000</u>
EXISTING BRIDGE REMOVAL	<u>1</u> LS	×	<u>\$200,000.00</u> = <u>\$200,000</u>
DETOUR AND/OR TEMPORARY BRIDGE	<u>1</u> LS	×	<u>\$300,000.00</u> = <u>\$300,000</u>
REHABILITATION CONTINGENCIES			<u>N/A</u> = <u>\$0</u>
MISCELLANEOUS (TCP'S, FIELD OFFICE, ETC.)			<u>10%</u> = <u>\$191,000</u>
MOBILIZATION			<u>10%</u> = <u>\$191,000</u>
STRUCTURE SUBTOTAL			= \$2,295,000
APPROACHES	<u>600</u> LF	×	<u>\$400.00</u> = <u>\$240,000</u>
MISCELLANEOUS			<u>7%</u> = <u>\$17,000</u>
MOBILIZATION			<u>10%</u> = <u>\$24,000</u>
APPROACHES SUBTOTAL			= \$285,000
TOTAL CONSTRUCTION COST			= \$2,580,000
PRELIMINARY ENGINEERING			<u>14%</u> = <u>\$360,000</u>
RIGHT OF WAY			= <u>\$0</u>
CONSTRUCTION ENGINEERING			<u>14%</u> = <u>\$360,000</u>
OTHER:			= <u>\$0</u>
TOTAL PROJECT COST			= \$3,300,000

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Alternative 1

PROJECT:	Wilton, Hall Bridge #2341	WIN:	N/A
Alternative 1:	Bridge Replacement: Precast 24-ft Span X 8-ft Rise Box Construction Type Deck Area: 26' x 47' = 1,175 SF	ESTIMATED BY:	JAF

PRECAST CONCRETE BOX:	<u>200</u>	CY	×	<u>\$1,500.00</u>	=	<u>\$300,000</u>
COFFERDAMS	<u>2</u>	EA	×	<u>\$17,000.00</u>	=	<u>\$34,000</u>
STRUCTURAL EXCAVATION & BORROW	<u>1,600</u>	CY	×	<u>\$70.00</u>	=	<u>\$112,000</u>
PLAIN RIPRAP	<u>800</u>	CY	×	<u>\$70.00</u>	=	<u>\$56,000</u>
EXISTING BRIDGE REMOVAL	<u>1</u>	LS	×	<u>\$100,000.00</u>	=	<u>\$100,000</u>
DETOUR AND/OR TEMPORARY BRIDGE	<u>1</u>	LS	×	<u>\$60,000.00</u>	=	<u>\$60,000</u>
REHABILITATION CONTINGENCIES				<u>N/A</u>	=	<u>\$0</u>
MISCELLANEOUS (TCP'S, FIELD OFFICE, ETC.)				<u>10%</u>	=	<u>\$67,000</u>
MOBILIZATION				<u>10%</u>	=	<u>\$67,000</u>
STRUCTURE SUBTOTAL					=	\$805,000
APPROACHES	<u>500</u>	LF	×	<u>\$550.00</u>	=	<u>\$275,000</u>
MISCELLANEOUS				<u>7%</u>	=	<u>\$20,000</u>
MOBILIZATION				<u>10%</u>	=	<u>\$28,000</u>
APPROACHES SUBTOTAL					=	\$325,000
TOTAL CONSTRUCTION COST					=	\$1,140,000
PRELIMINARY ENGINEERING				<u>15%</u>	=	<u>\$170,000</u>
RIGHT OF WAY					=	<u>\$20,000</u>
CONSTRUCTION ENGINEERING				<u>15%</u>	=	<u>\$170,000</u>
OTHER:					=	<u>\$0</u>
TOTAL PROJECT COST					=	\$1,500,000