

APPENDIX C

Project Opinion of Probable Cost

Engineer's Opinion of Probable Construction Cost (OPC)
3rd Street Bridge Reconstruction
Mouse River Enhanced Flood Protection (MREFP)
BUILD Grant Preliminary Cost
7/9/2019



Bid Item	Item Description	Unit	Estimated Quantity	Unit Price	Amount
	Saw cut - All Pavement Types	LF	252	\$ 4.50	\$ 1,134.00
	Remove Bituminous Pavement	SY	2,809	\$ 4.00	\$ 11,236.00
	Remove Concrete Pavement	SY	4,701	\$ 8.00	\$ 37,608.00
	Remove Gravel Surfacing	SY	320	\$ 2.25	\$ 720.00
	Remove Concrete Sidewalk/Driveways	SY	1,576	\$ 7.00	\$ 11,032.00
	Remove Curb and Gutter (Type)	LF	3,177	\$ 4.00	\$ 12,708.00
	Remove and Salvage Lighting System	EA	5	\$ 300.00	\$ 1,500.00
	Remove Storm Manhole	EA	3	\$ 800.00	\$ 2,400.00
	Remove Catch Basin	EA	4	\$ 430.00	\$ 1,720.00
	Remove Sanitary Manhole	EA	1	\$ 800.00	\$ 800.00
	Remove Water Pipe (All Types, All Sizes)	LF	40	\$ 20.00	\$ 800.00
	Remove Gate Valve	EA	1	\$ 250.00	\$ 250.00
	Remove Fire Hydrant	EA	1	\$ 550.00	\$ 550.00
	Riprap	CY	1,500	\$ 60.00	\$ 90,000.00
	Subgrade Preparation	SY	7,100	\$ 1.50	\$ 10,650.00
	Aggregate Base Course (CL 5)	TON	2,500	\$ 17.50	\$ 43,750.00
	8" Concrete Pavement	SY	6,500	\$ 77.50	\$ 503,750.00
	Road Embankment	CY	25,000	\$ 20.00	\$ 500,000.00
	6" Concrete Driveway	SY	140	\$ 71.00	\$ 9,940.00
	4" Concrete Sidewalk	SY	1,600	\$ 52.50	\$ 84,000.00
	Detectable Warning Panel	SF	156	\$ 40.00	\$ 6,240.00
	Concrete Curb and Gutter (Type 1)	LF	2,100	\$ 20.00	\$ 42,000.00
	Pavement Markings	LS	1	\$ 5,000.00	\$ 5,000.00
	Permanent Signing	LS	1	\$ 5,000.00	\$ 5,000.00
	Temporary Traffic Control	LS	1	\$ 10,000.00	\$ 10,000.00
	Re-Set Traffic Signals	LS	1	\$ 50,000.00	\$ 50,000.00
	Re-Set Light Standards	LS	1	\$ 150,000.00	\$ 150,000.00
	SE Retaining Wall	SF	675	\$ 75.00	\$ 50,625.00
	SW Retaining Wall	SF	4,200	\$ 110.00	\$ 462,000.00
	Steel Sheet Piling	SF	12,800	\$ 35.00	\$ 448,000.00
	Railroad Bridge Removal	LS	1	\$ 200,000.00	\$ 200,000.00
	3rd St Bridge Removal	LS	1	\$ 350,000.00	\$ 350,000.00
	3rd St Bridge	SF	49,200	\$ 250.00	\$ 12,300,000.00
	Water Main (6" PVC)	LF	40	\$ 75.00	\$ 3,000.00
	Water Gate Valve, Box, & Riser (6")	EA	1	\$ 1,600.00	\$ 1,600.00
	Fire Hydrant	EA	1	\$ 5,500.00	\$ 5,500.00
	Sanitary Sewer Manhole (48")	EA	1	\$ 6,000.00	\$ 6,000.00
	Storm Drain (15" RCP)	LF	108	\$ 60.00	\$ 6,480.00
	Storm Drain (30" RCP)	LF	200	\$ 100.00	\$ 20,000.00
	Storm Catch Basin (2X3)	EA	4	\$ 2,500.00	\$ 10,000.00
	Storm Manhole (48")	EA	3	\$ 3,500.00	\$ 10,500.00
Subtotal 3rd St Construction Cost					\$ 15,470,000.00
40% Contingency					\$ 6,190,000.00
Subtotal 3rd St Construction Cost with Contingency					\$ 21,660,000.00
Planning, Engineering and Design (PED) (Assume 12%)					\$ 2,600,000.00
Construction Management (CM) (Assume 7%)					\$ 1,520,000.00
Subtotal 3rd St Opinion of Cost					\$ 25,780,000.00

Engineer's Opinion of Probable Construction Cost (OPC)
Amtrak Platform Relocation
Mouse River Enhanced Flood Protection (MREFP)
BUILD Grant Preliminary Cost
7/9/2019



Bid Item	Item Description	Unit	Estimated Quantity	Unit Price	Amount
	Remove Concrete Pavement	SY	900	\$ 8.00	\$ 7,200.00
	Remove Bituminous Pavement	SY	2,975	\$ 4.00	\$ 11,900.00
	Remove Curb and Gutter (All Types)	LF	625	\$ 4.00	\$ 2,500.00
	Remove Gravel Surfacing	SY	500	\$ 2.25	\$ 1,125.00
	Remove and Salvage Light Pole	EA	10	\$ 300.00	\$ 3,000.00
	Subgrade Preparation	SY	2,832	\$ 1.50	\$ 4,248.00
	Aggregate Base Course (CL 5)	TON	650	\$ 17.50	\$ 11,375.00
	Hot Bituminous Pavement Superpave FAA 43	TON	17	\$ 57.50	\$ 977.50
	PG 58-28 Asphalt Cement	TON	284	\$ 500.00	\$ 142,000.00
	Concrete Curb and Gutter (Type 1)	LF	625	\$ 20.00	\$ 12,500.00
	4" Concrete Sidewalk	SY	1,922	\$ 52.50	\$ 100,905.00
	6" Pavement Marking	LF	2,300	\$ 2.50	\$ 5,750.00
	Detectable Warning Panel	SF	4,600	\$ 40.00	\$ 184,000.00
	Street Lighting	LS	1	\$ 100,000.00	\$ 100,000.00
	Water Service (4" PVC)	LF	1,050	\$ 60.00	\$ 63,000.00
	Relocate Water Boxes	EA	7	\$ 20,000.00	\$ 140,000.00
	Water Main (6" PVC)	LF	100	\$ 75.00	\$ 7,500.00
	Water Gate Valve, Box, & Riser (4")	EA	4	\$ 1,500.00	\$ 6,000.00
	Water Gate Valve, Box, & Riser (6")	EA	2	\$ 1,600.00	\$ 3,200.00
	Fire Hydrant	EA	1	\$ 5,500.00	\$ 5,500.00
Subtotal Phase Amtrak Construction Cost					\$ 810,000.00
40% Contingency					\$ 320,000.00
Subtotal Phase Amtrak Construction Cost with Contingency					\$ 1,130,000.00
Planning, Engineering and Design (PED) (Assume 12%)					\$ 140,000.00
Construction Management (CM) (Assume 7%)					\$ 80,000.00
Subtotal Amtrak Opinion of Cost					\$ 1,350,000.00

Engineer's Opinion of Probable Construction Cost (OPC)
Railroad Civil Features
Mouse River Enhanced Flood Protection (MREFP)
BUILD Grant Preliminary Cost
7/9/2019



Bid Item	Item Description	Unit	Estimated Quantity	Unit Price	Amount
	RR - Remove Retaining Wall within BNSF R/W (CC)	LF	550	\$ 23.00	\$ 12,650.00
	RR - Embankment (CC)	CY	117,000	\$ 32.00	\$ 3,744,000.00
	RR - Subballast (CC)	CY	40,000	\$ 44.00	\$ 1,760,000.00
	RR - Drainage Improvements (CC)	LS	1	\$ 400,000.00	\$ 400,000.00
	RR - Temporary Track Cross Overs	LS	1	\$ 100,000.00	\$ 100,000.00
Subtotal Railroad Civil Construction Cost					\$ 6,020,000.00
40% Contingency					\$ 2,410,000.00
Subtotal Railroad Civil Construction Cost with Contingency					\$ 8,430,000.00
Planning, Engineering and Design (PED) (Assume 12%)					\$ 1,010,000.00
Construction Management (CM) (Assume 7%)					\$ 590,000.00
Subtotal Railroad Civil Opinion of Cost					\$ 10,030,000.00

Engineer's Opinion of Probable Construction Cost (OPC)
BNSF Railroad Costs
Mouse River Enhanced Flood Protection (MREFP)
BUILD Grant Preliminary Cost
7/9/2019



Item Description	Unit	Estimated Quantity	Unit Price	Amount
Track Work (Subballast and Up) Includes new mainline and yard track material and construction labor costs, track relocation and removal costs, flagging, construction management, turnouts, and track panel material and installation. (Unit Cost includes a 40% Contingency)	LS	1	\$ 16,600,000.00	\$ 16,600,000.00
BNSF Bridge Over Mouse River Standard bridge type cost estimate of \$10k/ft for 3x400-ft bridges proposed	LF	1200	\$ 10,000.00	\$ 12,000,000.00
Signals Estimate based on relocation and replacement of existing signal infrastructure configuration and controls points in the area. Signal costs are a largely unknown component without further plan development and preliminary engineering agreement with a signal engineering firm.	LS	1	\$ 10,000,000.00	\$ 10,000,000.00
Subtotal BNSF Railroad Costs				\$ 38,600,000.00