

Wisconsin Department of Transportation

Conceptual Cost Estimate SUMMARY Version 2.0

Project I.D.	1130-31-00		
Highway	US 41		
Project Title	US 41 Expansion (Winnebago, Outagamie, and Brown Counties)		
Project Limits	Segment 7: CTH J Interchange		
Project Type	Urban ▼	Topography	Moderate ▼
Project Duration	Multi	Soil Type	Coarse-grained ▼
Current Year	2019	Start Construction	2048
Start Preliminary Design	2043	End Construction	2052
Alternative #:	Planning Study		

ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	Total
MAJOR ROADWAY ITEMS				
Removing Pavement	SY	4,950	\$ 5.00	\$25,000
Barrier Wall	LF	-	\$ 110.00	\$0
Curb & Gutter	LF	2,698	\$ 16.00	\$43,000
Sidewalk	SF	2,590	\$ 10.00	\$26,000
Earthwork				
Common	CY	11,362	\$ 10.00	\$114,000
Marsh	CY	-	\$ 10.00	\$0
Rock	CY	-	\$ 10.00	\$0
Borrow	CY	-	\$ 10.00	\$0
EBS	CY	-	\$ 10.00	\$0
Signalized Intersections	EACH	-	\$ 250,000.00	\$0
Pavement				
Mainline	SY	-	\$ 45.00	\$0
System Ramps	SY	-	\$ 45.00	\$0
Service Ramps	SY	5,925	\$ 45.00	\$267,000
Cross Road	SY	2,738	\$ 40.00	\$110,000
Frontage Roads	SY	-	\$ 40.00	\$0
Local Roads	SY	300	\$ 30.00	\$9,000
Mainline Shoulders	SY	-	\$ 30.00	\$0
Ramp Shoulders	SY	2,400	\$ 30.00	\$72,000
Base				
Mainline	SY	-	\$ 8.00	\$0
System Ramps	SY	-	\$ 8.00	\$0
Service Ramps	SY	5,925	\$ 8.00	\$47,000
Cross Road	SY	2,738	\$ 8.00	\$22,000
Frontage Roads	SY	-	\$ 8.00	\$0
Local Roads	Insert	300	\$ 8.00	\$2,000
Mainline Shoulders	SY	-	\$ 8.00	\$0
Ramp Shoulders	SY	2,400	\$ 8.00	\$19,000
Subbase				
Mainline	SY	-	\$ 12.00	\$0
System Ramps	SY	-	\$ 12.00	\$0
Service Ramps	SY	5,925	\$ 12.00	\$71,000
Cross Road	SY	2,738	\$ 10.00	\$27,000
Frontage Roads	SY	-	\$ 10.00	\$0
Local Roads	Insert	300	\$ 10.00	\$3,000
Mainline Shoulders	SY	-	\$ 12.00	\$0
Ramp Shoulders	SY	2,400	\$ 12.00	\$29,000
Major Roadway Subtotal (MRS)				\$886,000

ALLOWANCE ITEMS

DRAINAGE	% of MRS	11.4%	\$101,000
EROSION CONTROL & RESTORATION	% of MRS	9.3%	\$82,000
LIGHTING	% of MRS	1.4%	\$13,000
ROADWAY INCIDENTALS	% of MRS	28.9%	\$256,000
SIGNING/MARKING	% of MRS	3.0%	\$27,000
TRAFFIC CONTROL & STAGING	% of MRS	4.8%	\$43,000
ITS/ FTMS	% of MRS	1.0%	\$9,000

Allowance Subtotal

\$531,000

STRUCTURES

	UNIT	QUANTITY	UNIT PRICE	Total
Bridge Removal	EACH	1	\$ 65,000.00	\$65,000
New Bridge (Single Level Interchange)	SF	13,734	\$ 120.00	\$1,648,000
Bridge Redecking	SF	-	\$ 70.00	\$0
Bridge Widening	SF	-	\$ 140.00	\$0
New Retaining Wall	SF	-	\$ 70.00	\$0
Noise Wall Removal	EACH	-	\$ 75,000.00	\$0
New Noise Walls	SF	-	\$ 50.00	\$0
New Box Culvert/Extension	LF	-	\$ 2,300.00	\$0
Sign Bridge - Cantilever	EACH	-	\$ 30,000.00	\$0
Sign Bridge - Single Span	EACH	-	\$ 60,000.00	\$0
Structure Incidentals	% of Structures	10%		\$171,000

Structure SubTotal

\$1,884,000

SPECIAL CONSTRUCTION ELEMENTS

	UNIT	QUANTITY	UNIT PRICE	Total
Temporary Bridges	Insert	-	\$ -	\$0
Temporary Roadways	Insert	-	\$ -	\$0
Environment Mitigation	Insert	-	\$ -	\$0
Community Sensitive Design	Insert	-	\$ -	\$0
Hazardous Materials	Insert	-	\$ -	\$0
Bypass / Alternate Routes	Insert	-	\$ -	\$0

Special Construction Elements Subtotal

\$0

Construction Costs Estimate (CCE)

\$3,301,000

CONTEXT SENSITIVE SOLUTIONS (CSS)

CSS	% of Item CCE	5%	\$165,000
Base Construction Costs Estimate (BCCE)			\$3,466,000

SCOPE CHANGE ALLOWANCE ITEMS

PROJECT SCOPE INCREASE ALLOWANCE	% of Item BCCE	24%	\$832,000
Estimated Const. Let Amount (ECLA)			\$4,298,000

PROJECT DELIVERY ALLOWANCE ITEMS

PRELIMINARY ENGINEERING	% of Item BCCE	7.2%	\$309,000
FINAL ENGINEERING	% of Item BCCE	5.4%	\$232,000
CONSTRUCTION ENGINEERING	% of Item BCCE	9.2%	\$395,000
CONST CHANGE ORDERS & CLAIMS	% of Item BCCE	10.4%	\$447,000
TRAFFIC MITIGATION	% of Item BCCE	1.5%	\$64,000
PUBLIC INVOLVEMENT	% of Item BCCE	1.0%	\$43,000
Delivery Allowance Subtotal			\$1,490,000

EXTERNAL COSTS

REAL ESTATE	8% of Item BCCE	\$277,000	\$277,000
COMPENSABLE UTILITIES	3% of Item BCCE	\$104,000	\$104,000
JURISDICTIONAL TRANSFERS		\$0	\$0
External Costs Subtotal			\$381,000

Base Project Cost Estimate

\$6,169,000