

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 Co)		
Project Limits	USH 41 & WIS 47/Richmond St Interchange		
Project Type	Urban ▼	Topography	Moderate ▼
Project Duration	Multi	Soil Type	Coarse-grain ▼
Current Year	2019	Start Construction	2048
Start Preliminary Design	2043	End Construction	2052
Alternative #:	Planning Study		

[Project Scope](#)[Project Assumptions](#)

ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
MAJOR ROADWAY ITEMS	Bid Express Inst.	Estimator Inst.			
Removing Pavement	SY	1,800	\$ 5.00	\$9,000	
Barrier Wall	LF	-	\$ 110.00	\$0	
Curb & Gutter	LF	1,700	\$ 16.00	\$27,000	
Sidewalk	SF	2,976	\$ 10.00	\$30,000	
Earthwork					
Common	CY	1,500	\$ 10.00	\$15,000	
Marsh	Insert	-	\$ 10.00	\$0	
Rock	Insert	-	\$ 10.00	\$0	
Borrow	Insert	-	\$ 10.00	\$0	
EBS	Insert	-	\$ 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	-	\$ 45.00	\$0	
Cross Road	SY	1,500	\$ 40.00	\$60,000	
Frontage Roads	SY	-	\$ 40.00	\$0	
Local Roads	SY	-	\$ 30.00	\$0	
Mainline Shoulders	SY	-	\$ 30.00	\$0	
Ramp Shoulders	SY	-	\$ 30.00	\$0	
Base					
Mainline	SY	-	\$ 8.00	\$0	
System Ramps	SY	-	\$ 8.00	\$0	
Service Ramps	SY	-	\$ 8.00	\$0	
Cross Road	SY	1,500	\$ 8.00	\$12,000	
Frontage Roads	SY	-	\$ 8.00	\$0	
Local Roads	SY	-	\$ 8.00	\$0	
Mainline Shoulders	SY	-	\$ 8.00	\$0	
Ramp Shoulders	SY	-	\$ 8.00	\$0	
Subbase					
Mainline	SY	-	\$ 12.00	\$0	
System Ramps	SY	-	\$ 12.00	\$0	
Service Ramps	SY	-	\$ 12.00	\$0	
Cross Road	SY	1,500	\$ 10.00	\$15,000	
Frontage Roads	SY	-	\$ 10.00	\$0	
Local Roads	SY	-	\$ 10.00	\$0	
Mainline Shoulders	SY	-	\$ 12.00	\$0	
Ramp Shoulders	SY	-	\$ 12.00	\$0	
Major Roadway Subtotal (MRS)				\$168,000	

ALLOWANCE ITEMS**Certainty Factor**

DRAINAGE	% of MRS	11.41%	\$19,000
EROSION CONTROL & RESTORATION	% of MRS	9.25%	\$16,000
LIGHTING	% of MRS	1.41%	\$2,000
ROADWAY INCIDENTALS	% of MRS	28.85%	\$48,000
SIGNING/MARKING	% of MRS	3.03%	\$5,000
TRAFFIC CONTROL & STAGING	% of MRS	4.81%	\$8,000
ITS/ FTMS	% of MRS	1.00%	\$2,000
Allowance Subtotal			\$100,000

STRUCTURES (see STRUCTURE tab)			UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Bridge Removal	EACH	2	\$	65,000.00	\$130,000		
New Bridge (Single Level Interchange)	SF	24,500	\$	120.00	\$2,940,000		
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%	\$307,000		
Structure SubTotal						\$3,377,000	
SPECIAL CONSTRUCTION ELEMENTS		UNIT	QUANTITY	UNIT PRICE	Total	NOTES	
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		
Other	Insert	-	\$	5,000,000.00	\$0		
Other	Insert	-	\$	-	\$0		
Other	Insert	-	\$	-	\$0		
Other	Insert	-	\$	-	\$0		
Special Construction Elements Subtotal						\$0	
Construction Costs Estimate (CCE)						\$3,645,000	
CONTEXT SENSITIVE SOLUTIONS (CSS)							
CSS	% of Item CCE			5%	\$182,000		
Base Construction Costs Estimate (BCCE)						\$3,827,000	
SCOPE CHANGE ALLOWANCE ITEMS							
PROJECT SCOPE INCREASE ALLOWANCE	% of Item BCCE			24%	\$918,000		
Estimated Const. Let Amount (ECLA)						\$4,745,000	
PROJECT DELIVERY ALLOWANCE ITEMS							
PRELIMINARY ENGINEERING	% of Item BCCE			7.2%	\$342,000		
FINAL ENGINEERING	% of Item BCCE			5.4%	\$256,000		
CONSTRUCTION ENGINEERING	% of Item BCCE			9.2%	\$437,000		
CONST CHANGE ORDERS & CLAIMS	% of Item BCCE			10.4%	\$493,000		
TRAFFIC MITIGATION	% of Item BCCE			1.5%	\$71,000		
PUBLIC INVOLVEMENT	% of Item BCCE			1.0%	\$47,000		
Delivery Allowance Subtotal						\$1,646,000	
EXTERNAL COSTS							NOTES
REAL ESTATE	8% of Item BCCE			\$	306,000.00	\$306,000	
COMPENSABLE UTILITIES	3% of Item BCCE			\$	115,000.00	\$115,000	
JURISDICTIONAL TRANSFERS				\$	-	\$0	
Other				\$	-	\$0	
Other				\$	-	\$0	
Other				\$	-	\$0	
Other				\$	-	\$0	
Other				\$	-	\$0	
External Costs Subtotal						\$421,000	
Base Project Cost Estimate						\$6,812,000	
RISK ADJUSTMENTS							NOTES
Risk Item A				\$	-	\$0	
Risk Item B				\$	-	\$0	
Risk Item C				\$	-	\$0	
Risk Adjustment Subtotal						\$0	
ESTIMATE UNCERTAINTY							NOTES
Uncertainty Item A				\$	-	\$0	
Uncertainty Item B				\$	-	\$0	
Uncertainty Item C				\$	-	\$0	
Estimate Uncertainty Subtotal						\$0	
Current Year Total Project Cost Estimate						\$6,812,000	