

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	US 41 & WIS 125/College Ave 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	NOTES
MAJOR ROADWAY ITEMS					
Removing Pavement	SY	112,400	\$ 5.00	\$562,000	
Barrier Wall	LF	-	\$ 110.00	\$0	
Curb & Gutter	LF	41,500	\$ 16.00	\$664,000	
Earthwork					
Common	CY	125,200	\$ 10.00	\$1,252,000	
Marsh	CY	-	\$ 10.00	\$0	
Rock	CY	-	\$ 10.00	\$0	
Borrow	CY	-	\$ 10.00	\$0	
EBS	CY	-	\$ 10.00	\$0	
Signalized Intersections	EACH	4	\$ 250,000.00	\$1,000,000	
Pavement					
Mainline	SY	-	\$ 45.00	\$0	
System Ramps	SY	-	\$ 45.00	\$0	
Service Ramps	SY	14,800	\$ 45.00	\$666,000	
Cross Road	SY	63,400	\$ 40.00	\$2,536,000	
Frontage Roads	SY	10,300	\$ 40.00	\$412,000	
Local Roads	SY	40,000	\$ 30.00	\$1,200,000	Assumed 6" depth
Mainline Shoulders	SY	-	\$ 30.00	\$0	Assumed 6" depth
Ramp Shoulders	SY	5,000	\$ 30.00	\$150,000	Assumed 6" depth
Base					
Mainline	SY	-	\$ 8.00	\$0	Assumed 12" depth
System Ramps	SY	-	\$ 8.00	\$0	
Service Ramps	SY	14,800	\$ 8.00	\$118,000	
Cross Road	SY	63,400	\$ 8.00	\$507,000	
Frontage Roads	SY	10,300	\$ 8.00	\$82,000	
Local Roads	SY	40,000	\$ 8.00	\$320,000	
Mainline Shoulders	SY	-	\$ 8.00	\$0	
Ramp Shoulders	SY	5,000	\$ 8.00	\$40,000	
Subbase					
Mainline	SY	-	\$ 12.00	\$0	Assumed 12" depth
System Ramps	SY	-	\$ 12.00	\$0	
Service Ramps	SY	14,800	\$ 12.00	\$178,000	
Cross Road	SY	63,400	\$ 10.00	\$634,000	
Frontage Roads	SY	10,300	\$ 10.00	\$103,000	
Local Roads	SY	40,000	\$ 10.00	\$400,000	
Mainline Shoulders	SY	-	\$ 12.00	\$0	
Ramp Shoulders	SY	5,000	\$ 12.00	\$60,000	
Major Roadway Subtotal (MRS)				\$10,884,000	
ALLOWANCE ITEMS					
DRAINAGE	% of MRS	11.4%		\$1,242,000	
EROSION CONTROL & RESTORATION	% of MRS	9.3%		\$1,007,000	
LIGHTING	% of MRS	1.4%		\$154,000	
ROADWAY INCIDENTALS	% of MRS	28.9%		\$3,140,000	
SIGNING/MARKING	% of MRS	3.0%		\$330,000	
TRAFFIC CONTROL & STAGING	% of MRS	4.8%		\$524,000	
ITS/ FTMS	% of MRS	1.0%		\$109,000	
Allowance Subtotal				\$6,506,000	

STRUCTURES (see STRUCTURE tab)					NOTES
Bridge Removal	EACH	-	\$ 65,000.00	\$0	
New Bridge (Single Level Interchange)	SF	-	\$ 120.00	\$0	
New Bridge (Multi-level Interchange)	Insert	-	\$ -	\$0	
Bridge Redecking	SF	-	\$ 70.00	\$0	
Bridge Widening	SF	-	\$ 140.00	\$0	
Retaining Wall Removal	Insert	-	\$ -	\$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	1,030	\$ 2,300.00	\$2,369,000	
Sign Bridge - Cantilever	EACH	-	\$ 30,000.00	\$0	
Sign Bridge - Single Span	EACH	-	\$ 60,000.00	\$0	
MSE Walls	Insert	-	\$ -	\$0	
Secant Walls	Insert	-	\$ -	\$0	
Structure Incidentals		% of Structures	10%	\$237,000	
Structure SubTotal				\$2,606,000	
SPECIAL CONSTRUCTION ELEMENTS					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	
Reconfiguration of WIS 125/Casaloma Dr.	EACH	1	\$ 5,000,000.00	\$5,000,000	
Special Construction Elements Subtotal				\$5,000,000	
Construction Costs Estimate (CCE)				\$24,996,000	
CONTEXT SENSITIVE SOLUTIONS (CSS)					
CSS		% of Item CCE	5%	\$1,250,000	
Base Construction Costs Estimate (BCCE)				\$26,246,000	
SCOPE CHANGE ALLOWANCE ITEMS					
PROJECT SCOPE INCREASE ALLOWANCE		% of Item BCCE	24%	\$6,299,000	
Estimated Const. Let Amount (ECLA)				\$32,545,000	
PROJECT DELIVERY ALLOWANCE ITEMS					
PRELIMINARY ENGINEERING		% of Item BCCE	7.2%	\$2,343,000	
FINAL ENGINEERING		% of Item BCCE	5.4%	\$1,757,000	
CONSTRUCTION ENGINEERING		% of Item BCCE	9.2%	\$2,994,000	
CONST CHANGE ORDERS & CLAIMS		% of Item BCCE	10.4%	\$3,385,000	
TRAFFIC MITIGATION		% of Item BCCE	1.5%	\$488,000	
PUBLIC INVOLVEMENT		% of Item BCCE	1.0%	\$325,000	
Delivery Allowance Subtotal				\$11,292,000	
EXTERNAL COSTS					NOTES
REAL ESTATE		8% of Item BCCE	\$2,100,000	\$2,100,000	
COMPENSABLE UTILITIES		3% of Item BCCE	\$787,000	\$787,000	
JURISDICTIONAL TRANSFERS			\$0	\$0	
External Costs Subtotal				\$2,887,000	
Base Project Cost Estimate				\$46,724,000	
RISK ADJUSTMENTS					NOTES
Risk Item A			\$0	\$0	
Risk Item B			\$0	\$0	
Risk Item C			\$0	\$0	
Risk Adjustment Subtotal				\$0	
ESTIMATE UNCERTAINTY					NOTES
Uncertainty Item A			\$0	\$0	
Uncertainty Item B			\$0	\$0	
Uncertainty Item C			\$0	\$0	
Estimate Uncertainty Subtotal				\$0	
Current Year Total Project Cost Estimate				\$46,724,000	