

# 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: County S 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		

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

ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
<b>MAJOR ROADWAY ITEMS</b>					
	<a href="#">Bid Express Inst.</a>	<a href="#">Estimator Inst.</a>			
Removing Pavement	SY	23,400	\$ 5.00	\$117,000	
Barrier Wall	LF	-	\$ 110.00	\$0	
Curb & Gutter	LF	-	\$ 16.00	\$0	
Earthwork					
Common	CY	15,500	\$ 10.00	\$155,000	
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	7,250	\$ 45.00	\$326,000	
Cross Road	SY	10,550	\$ 40.00	\$422,000	
Frontage Roads	SY	16,400	\$ 40.00	\$656,000	
Local Roads	SY	-	\$ 30.00	\$0	
Mainline Shoulders	SY	-	\$ 30.00	\$0	Assumed 5" depth
Ramp Shoulders	SY	4,550	\$ 30.00	\$137,000	Assumed 5" depth
Base					
Mainline	SY	-	\$ 8.00	\$0	
System Ramps	SY	-	\$ 8.00	\$0	
Service Ramps	SY	7,250	\$ 8.00	\$58,000	
Cross Road	SY	10,550	\$ 8.00	\$84,000	
Frontage Roads	SY	16,400	\$ 8.00	\$131,000	
Local Roads	Insert	-	\$ 8.00	\$0	
Mainline Shoulders	SY	-	\$ 8.00	\$0	
Ramp Shoulders	SY	4,550	\$ 8.00	\$36,000	
Subbase					
Mainline	SY	-	\$ 12.00	\$0	
System Ramps	SY	-	\$ 12.00	\$0	
Service Ramps	SY	7,250	\$ 12.00	\$87,000	
Cross Road	Insert	-	\$ 10.00	\$0	
Frontage Roads	SY	16,400	\$ 10.00	\$164,000	
Local Roads	Insert	-	\$ 10.00	\$0	
Mainline Shoulders	SY	-	\$ 12.00	\$0	
Ramp Shoulders	SY	4,550	\$ 12.00	\$55,000	
Major Roadway Subtotal (MRS)				\$2,428,000	

**ALLOWANCE ITEMS****Certainty Factor**

DRAINAGE	% of MRS	11.4%	\$277,000
EROSION CONTROL & RESTORATION	% of MRS	9.3%	\$225,000
LIGHTING	% of MRS	1.4%	\$34,000
ROADWAY INCIDENTALS	% of MRS	28.9%	\$701,000
SIGNING/MARKING	% of MRS	3.0%	\$74,000
TRAFFIC CONTROL & STAGING	% of MRS	4.8%	\$117,000
ITS/ FTMS	% of MRS	1.0%	\$24,000
Allowance Subtotal			\$1,452,000

STRUCTURES (see STRUCTURE tab)	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Bridge Removal	EACH	1	\$ 65,000.00	\$65,000	
New Bridge (Single Level Interchange)	SF	18,671	\$ 120.00	\$2,241,000	
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		10.0%	\$231,000	
Structure SubTotal				\$2,537,000	

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
Other	Insert	-	\$ -	\$0
Other	Insert	-	\$ -	\$0
Other	Insert	-	\$ -	\$0
Special Construction Elements Subtotal				\$0
Construction Costs Estimate (CCE)				\$6,417,000
CONTEXT SENSITIVE SOLUTIONS (CSS)				
CSS	% of Item CCE		5%	\$321,000
Base Construction Costs Estimate (BCCE)				\$6,738,000
SCOPE CHANGE ALLOWANCE ITEMS				
PROJECT SCOPE INCREASE ALLOWANCE	% of Item BCCE		24%	\$1,617,000
Estimated Const. Let Amount (ECLA)				\$8,355,000
PROJECT DELIVERY ALLOWANCE ITEMS				
PRELIMINARY ENGINEERING	% of Item BCCE		7.2%	\$602,000
FINAL ENGINEERING	% of Item BCCE		5.4%	\$451,000
CONSTRUCTION ENGINEERING	% of Item BCCE		9.2%	\$769,000
CONST CHANGE ORDERS & CLAIMS	% of Item BCCE		10.4%	\$869,000
TRAFFIC MITIGATION	% of Item BCCE		1.5%	\$125,000
PUBLIC INVOLVEMENT	% of Item BCCE		1.0%	\$84,000
Delivery Allowance Subtotal				\$2,900,000
EXTERNAL COSTS				
REAL ESTATE	8% of Item BCCE	\$	539,000.00	\$539,000
COMPENSABLE UTILITIES	3% of Item BCCE	\$	202,000.00	\$202,000
JURISDICTIONAL TRANSFERS		\$	-	\$0
Other		\$	-	\$0
Other		\$	-	\$0
Other		\$	-	\$0
Other		\$	-	\$0
Other		\$	-	\$0
External Costs Subtotal				\$741,000
Base Project Cost Estimate				\$11,996,000