

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 & CTH N 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
MAJOR ROADWAY ITEMS					
	Bid Express Inst.	Estimator Inst.			
Removing Pavement	SY	39,300	\$ 5.00	\$197,000	
Barrier Wall	LF	-	\$ 110.00	\$0	
Curb & Gutter	LF	25,400	\$ 16.00	\$406,000	
Earthwork					
Common	CY	39,111	\$ 10.00	\$391,000	
Marsh	Insert	-	\$ 10.00	\$0	
Rock	Insert	-	\$ 10.00	\$0	
Borrow	Insert	-	\$ 10.00	\$0	
EBS	Insert	-	\$ 10.00	\$0	
Signalized Intersections	EACH	3	\$ 250,000.00	\$750,000	
Pavement					
Mainline	SY	-	\$ 45.00	\$0	
System Ramps	SY	-	\$ 45.00	\$0	
Service Ramps	SY	7,111	\$ 45.00	\$320,000	
Cross Road	SY	29,600	\$ 40.00	\$1,184,000	
Frontage Roads	SY	-	\$ 40.00	\$0	
Local Roads	SY	-	\$ 30.00	\$0	
Mainline Shoulders	SY	-	\$ 30.00	\$0	Assumed 5" depth
Ramp Shoulders	SY	2,400	\$ 30.00	\$72,000	Assumed 5" depth
Base					
Mainline	SY	-	\$ 8.00	\$0	
System Ramps	SY	-	\$ 8.00	\$0	
Service Ramps	SY	11,149	\$ 8.00	\$89,000	
Cross Road	SY	32,153	\$ 8.00	\$257,000	
Frontage Roads	SY	-	\$ 8.00	\$0	
Local Roads	SY	-	\$ 8.00	\$0	
Mainline Shoulders	SY	-	\$ 8.00	\$0	
Ramp Shoulders	SY	-	\$ 8.00	\$0	Basecourse for ramp shoulders is grouped in with line 37
Subbase					
Mainline	SY	-	\$ 12.00	\$0	
System Ramps	SY	-	\$ 12.00	\$0	
Service Ramps	SY	11,149	\$ 12.00	\$134,000	
Cross Road	SY	32,153	\$ 10.00	\$322,000	
Frontage Roads	SY	-	\$ 10.00	\$0	
Local Roads	SY	-	\$ 10.00	\$0	
Mainline Shoulders	SY	-	\$ 12.00	\$0	
Ramp Shoulders	SY	-	\$ 12.00	\$0	Subbase for ramp shoulders is grouped in with line 46
Major Roadway Subtotal (MRS)				\$4,122,000	

ALLOWANCE ITEMS

Certainty Factor

DRAINAGE	% of MRS	11.4%	\$470,000
EROSION CONTROL & RESTORATION	% of MRS	9.3%	\$381,000
LIGHTING	% of MRS	1.4%	\$58,000
ROADWAY INCIDENTALS	% of MRS	28.9%	\$1,189,000
SIGNING/MARKING	% of MRS	3.0%	\$125,000
TRAFFIC CONTROL & STAGING	% of MRS	4.8%	\$198,000
ITS/FTMS	% of MRS	1.0%	\$41,000

Allowance SubTotal

\$2,462,000

STRUCTURES (see STRUCTURE tab)	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Bridge Removal	EACH	-	\$ 65,000.00	\$0	
New Bridge (Single Level Interchange)	SF	2,700	\$ 120.00	\$324,000	
Bridge Redecking	SF	22,600	\$ 70.00	\$1,582,000	
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%		\$191,000	
Structure SubTotal				\$2,097,000	

SPECIAL CONSTRUCTION ELEMENTS					NOTES	
Temporary Bridges	Insert	-	\$	-	\$0	For traffic circulation mitigation on Moasis
Temporary Roadways	Insert	-	\$	-	\$0	
Environment Mitigation	Insert	-	\$	-	\$0	
Community Sensitive Design	Insert	-	\$	-	\$0	
Hazardous Materials	Insert	-	\$	-	\$0	
Bypass / Alternate Routes	Insert	-	\$	-	\$0	
Other	Insert	1	\$	1,000,000.00	\$1,000,000	
Other	Insert	-	\$	-	\$0	
Other	Insert	-	\$	-	\$0	
Other	Insert	-	\$	-	\$0	
Special Construction Elements Subtotal					\$1,000,000	
Construction Costs Estimate (CCE)					\$9,681,000	
CONTEXT SENSITIVE SOLUTIONS (CSS)						
CSS	% of Item CCE		5%		\$484,000	
Base Construction Costs Estimate (BCCE)					\$10,165,000	
SCOPE CHANGE ALLOWANCE ITEMS						
PROJECT SCOPE INCREASE ALLOWANCE	% of Item BCCE		24%		\$2,440,000	
Estimated Const. Let Amount (ECLA)					\$12,605,000	
PROJECT DELIVERY ALLOWANCE ITEMS						
PRELIMINARY ENGINEERING	% of Item BCCE		7.2%		\$908,000	
FINAL ENGINEERING	% of Item BCCE		5.4%		\$681,000	
CONSTRUCTION ENGINEERING	% of Item BCCE		9.2%		\$1,160,000	
CONST CHANGE ORDERS & CLAIMS	% of Item BCCE		10.4%		\$1,311,000	
TRAFFIC MITIGATION	% of Item BCCE		1.5%		\$189,000	
PUBLIC INVOLVEMENT	% of Item BCCE		1.0%		\$126,000	
Delivery Allowance Subtotal					\$4,375,000	
EXTERNAL COSTS						NOTES
REAL ESTATE	8% of Item BCCE		\$	813,000.00	\$813,000	
COMPENSABLE UTILITIES	3% of Item BCCE		\$	305,000.00	\$305,000	
JURISDICTIONAL TRANSFERS			\$	-	\$0	
Other			\$	-	\$0	
Other			\$	-	\$0	
Other			\$	-	\$0	
Other			\$	-	\$0	
Other			\$	-	\$0	
External Costs Subtotal					\$1,118,000	
Base Project Cost Estimate					\$18,098,000	
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					\$18,098,000	