Wisconsin Department of Transportation

Today: 9/13/19 10:20 AM

Conceptual Cost Estimate
SUMMARY
Version 2.0

Project I.D.	1130-31-00		
Highway	US 41		
Project Title	41 Expansion (Winnebago, Outagamie, and Brown Counti		
Project Limits	Segment 7: County S Interchange		
Project Type	Urban	**Topography**	Moderate
Project Duration	Multi	**Soil Type**	Coarse-grained
Current Year	2019	**Start Construction**	2028
Start Preliminary Design	2020	**End Construction**	2028
Alternative #:	Planning Study		

ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
MAJOR ROADWAY ITEMS					
Removing Pavement	SY	2,222	$ 10.00	$22,000	
Barrier Wall	LF	-	$ 150.00	$0	
Curb & Gutter	LF	-	$ 25.00	$0	
Beamguard	LF	660	$ 30.00	$20,000	
Beamguard EAT	EACH	1	$ 3,500.00	$3,500	
Earthwork					
Common	CY	3,428	$ 12.00	$41,000	
Marsh	CY	-	$ -	$0	
Rock	CY	-	$ -	$0	
Borrow	CY	-	$ -	$0	
EBS	CY	-	$ -	$0	
Signalized Intersections	EACH	2	$ 250,000.00	$500,000	
Pavement					
Mainline	SY	1,143	$ 50.00	$57,000	
System Ramps	SY	-	$ 50.00	$0	
Service Ramps	SY	911	$ 50.00	$46,000	
Cross Road	SY	-	$ 45.00	$0	
Frontage Roads	SY	-	$ 45.00	$0	
Local Roads	SY	-	$ 30.00	$0	Assumed 6" depth
Mainline Shoulders	SY	831	$ 30.00	$25,000	Assumed 6" depth
Ramp Shoulders	SY	543	$ 30.00	$16,000	Assumed 6" depth
Base					
Mainline	SY	1,143	$ 8.00	$9,000	Assumed 12" depth
System Ramps	SY	-	$ 8.00	$0	
Service Ramps	SY	911	$ 8.00	$7,000	
Cross Road	SY	-	$ 8.00	$0	
Frontage Roads	SY	-	$ 8.00	$0	
Local Roads	SY	-	$ 8.00	$0	
Mainline Shoulders	SY	831	$ 8.00	$7,000	
Ramp Shoulders	SY	543	$ 8.00	$4,000	
Subbase					
Mainline	SY	1,143	$ 12.00	$14,000	Assumed 12" depth
System Ramps	SY	-	$ 12.00	$0	
Service Ramps	SY	911	$ 12.00	$11,000	
Cross Road	SY	-	$ 10.00	$0	
Frontage Roads	SY	-	$ 10.00	$0	
Local Roads	SY	-	$ 10.00	$0	
Mainline Shoulders	SY	831	$ 12.00	$10,000	
Ramp Shoulders	SY	543	$ 12.00	$7,000	
Major Roadway Subtotal (MRS)				**$800,000**	

ALLOWANCE ITEMS					
DRAINAGE		% of MRS	2.0%		$16,000
ROADWAY INCIDENTALS		% of MRS	10.0%		$80,000
TRAFFIC CONTROL & STAGING		% of MRS	10.0%		$80,000
Allowance Subtotal					$176,000

STRUCTURES (see STRUCTURE tab)	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Bridge Removal	EACH	-	$ 65,000.00	$0	
New Bridge (Single Level Interchange)	SF	-	$ 120.00	$0	
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	
Structure SubTotal				$0	

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	
Special Construction Elements Subtotal				$0	

Construction Costs Estimate (CCE)	$976,000

PROJECT DELIVERY ALLOWANCE ITEMS			
PRELIMINARY ENGINEERING	% of Item CCE	7.2%	$70,000
FINAL ENGINEERING	% of Item CCE	5.4%	$53,000
CONSTRUCTION ENGINEERING	% of Item CCE	9.2%	$90,000
Delivery Allowance Subtotal			$213,000

EXTERNAL COSTS				NOTES
REAL ESTATE	% of Item CCE	0.0%	$0	
COMPENSABLE UTILITIES	% of Item CCE	0.0%	$0	
JURISDICTIONAL TRANSFERS	% of Item CCE	0.0%	$0	
External Costs Subtotal			$0	

Base Project Cost Estimate	$1,189,000

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	$1,189,000