APPENDIX S

Year 2028 & Year 2048 Improvements' Cost Estimate Sheets

Today: 9/27/19 2:31 PM

Wisconsin Department of Transportation Project I.D. 1130-31-00 **Conceptual Cost Estimate** Highway US 41 **SUMMARY Project Title** US 41 Expansion (Winnebago, Outagamie, and Brown Co) Version 2.0 **Project Limits** USH 41 & WIS 96/Wisconsin Ave **Project Type** Urban Topography Moderate Coarse-grain **Project Duration** Soil Type Multi Start **Current Year** 2019 Construction 2028 Start Preliminary **End Construction** 2020 2028 Design Alternative #: Planning Study

				g cracy		
ITEM DESCRIPTION	UNIT	QUANTITY	UN	IIT PRICE	Total	NOTES
MAJOR ROADWAY ITEMS						
Removing Pavement	SY	4,200	\$	5.00	\$21,000	
Barrier Wall	LF	· -	\$	110.00	\$0	
Beamguard	LF	2,107	\$	30.00	\$63,000	
Curb and Gutter	LF	2,500	\$	16.00	\$40,000	
Beamguard EAT	EACH	2,300		3,000.00	\$6,000	
Carthwork	LACIT	2	Ф	3,000.00	\$0,000	
	CV	5 700	0	10.00	057,000	
Common	CY	5,700	\$	10.00	\$57,000	
Marsh	CY	-	\$	10.00	\$0	
Rock	CY	-	\$	10.00	\$0	
Borrow	CY	-	\$	10.00	\$0	
EBS	CY	-	\$	10.00	\$0	
ignalized Intersections	EACH	<u>-</u>	\$	250,000.00	\$0	
Payement	LACIT	<u> </u>	J.	250,000.00	ΦΟ	
Mainline	SY		\$	45.00	\$0	
System Ramps	SY	_	\$	45.00	\$0	
Service Ramps	SY	1,400	\$	45.00	\$63,000	
Cross Road	SY	3,200	\$	40.00	\$128,000	
	SY	3,200				
Frontage Roads		-	\$	40.00	\$0	. 1501.1
Local Roads	SY	-	\$	30.00	\$0	Assumed 5" depth
Mainline Shoulders	SY		\$	30.00	\$0	Assumed 5" depth
Ramp Shoulders	SY	1,100	\$	30.00	\$33,000	Assumed 5" depth
ase						
Mainline	SY	-	\$	8.00	\$0	
System Ramps	SY	-	\$	8.00	\$0	
Service Ramps	SY	1,400	\$	8.00	\$11,000	
Cross Road	SY	3,200	\$	8.00	\$26,000	
Frontage Roads	SY	-	\$	8.00	\$0	
Local Roads	SY	-	\$	8.00	\$0	
Mainline Shoulders	SY	-	\$	8.00	\$0	
Ramp Shoulders	SY	1,100	\$	8.00	\$9,000	
bbase						
Mainline	SY	-	\$	12.00	\$0	
System Ramps	SY	_	\$	12.00	\$0	
Service Ramps	SY	1,400	\$	12.00	\$17,000	
Cross Road	SY	3,200	\$	10.00	\$32,000	
Frontage Roads	SY	5,200	\$	10.00	\$0	
Local Roads	SY		\$	10.00	\$0 \$0	
Mainline Shoulders	SY		\$	12.00	\$0 \$0	
Ramp Shoulders	SY	1,100	\$	12.00	\$13,000	
Kamp bilouidels	01	1,100	φ	12.00	\$15,000	
Major Roadway Subtotal (MRS	5)				\$519,000	
ALLOWANCE ITEMS						
DRAINAGE		% of MRS		2.0%	\$10,000	
EROSION CONTROL & RESTORATION		% of MRS		2.0%	\$10,000	
ROADWAY INCIDENTALS		% of MRS		10.0%	\$52,000	
IGNING/MARKING		% of MRS		2.0%	\$10,000	
RAFFIC CONTROL & STAGING		% of MRS		10.0%	\$52,000	

Allowance Subtotal

\$134,000

STRUCTURES	11117	OHANTITY	UNIT PRIOR	T- / · /	NOTES
	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Bridge Removal	EACH	-	\$ 65,000.00	\$0	
Slope Paving Removal	EACH EACH		\$ 10,000.00 \$ 5,000.00	\$10,000 \$5,000	
Sign Bridge Removal New Bridge (Single Level Interchange)	SF	1		\$5,000 \$0	
	SF SF	-			
Bridge Redecking Bridge Widening	SF SF	-	\$ 70.00 \$ 140.00	\$0 \$0	
New Retaining Wall	SF	1,900	\$ 70.00	\$133,000	
Noise Wall Removal	EACH	1,900	\$ 75,000.00	\$133,000	
New Noise Walls	SF	-	\$ 75,000.00	\$0 \$0	
New Box Culvert/Extension	LF	40	\$ 2,300.00	\$92,000	
Sign Bridge - Cantilever	EACH	40	\$ 2,300.00	\$92,000 \$0	
Sign Bridge - Single Span	EACH	- 1	\$ 60,000.00	\$60,000	
Structure Incidentals	EACH	% of Structures	10%	\$30,000	
Structure SubTotal		70 Of Structures	1070	\$330,000	
				\$330,000	
SPECIAL CONSTRUCTION ELEMENTS	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Temporary Bridges		-	\$ -	\$0	
Temporary Roadways		-	\$ -	\$0	
Environment Mitigation		-	\$ -	\$0	
Community Sensitive Design		-	\$ -	\$0	
Hazardous Materials		-	\$ -	\$0	
Bypass / Alternate Routes		-	\$ -	\$0	
Special Construction Elements Subtotal				\$0	
Construction Costs Estimate (CCE)				\$983,000	
(000)				<i>,,,,,,,</i>	
PROJECT DELIVERY ALLOWANCE ITEMS					
PRELIMINARY ENGINEERING		% of Item CCE	7.2%	\$71,000	
FINAL ENGINEERING		% of Item CCE	5.4%	\$53,000	
CONSTRUCTION ENGINEERING		% of Item CCE	9.2%	\$90,000	
Delivery Allowance Subtotal				\$214,000	
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	l
Base Project Cost Estimate				\$1,197,000	1
					
RISK ADJUSTMENTS					NOTES
Risk Item A			\$0	\$0	
Risk Item B			\$0	\$0	
Risk Item C			\$0	\$0	
Risk Adjustment Subtotal				\$0	I
ESTIMATE UNCERTAINTY					NOTES
Uncertainty Item A			\$0	\$0	
Uncertainty Item B			\$ 0	\$0	
Uncertainty Item C			\$0	\$0	
Estimate Uncertainty Subtotal				\$0	
0				¢1.10 7.000	•
Current Year Total Project Cost Estimate				\$1,197,000	•

Today: 9/27/19 2:12 PM

Wisconsin Department of Transportation Project I.D. 1130-31-00 **Conceptual Cost Estimate** Highway US 41 **SUMMARY Project Title** US 41 Expansion (Winnebago, Outagamie, and Brown Co) Version 2.0 **Project Limits** USH 41 & WIS 15/Northland Ave Interchange Project Type Urban Topography Moderate Coarse-grain **Project Duration** Soil Type Multi Start **Current Year** 2019 Construction 2028 Start Preliminary **End Construction** 2020 2028 Design

Alternative #:

EROSION CONTROL & RESTORATION

ROADWAY INCIDENTALS

ITEM DESCRIPTION UNIT QUANTITY UNIT PRICE Total NOTES **MAJOR ROADWAY ITEMS** Removing Pavement 5.00 \$28,000 SY 5,675 **Barrier Wall** LF 110.00 \$0 LF 1,506 \$45,000 Beamguard 30.00 **Curb and Gutter** LF 1,900 16.00 \$30,000 **Beamguard EAT EACH** 3,000.00 \$18,000 6 Earthwork Common CY 8,710 \$ 10.00 \$87,000 Marsh CY 10.00 \$0 Rock CY 10.00 \$0 \$ Borrow CY \$ 10.00 \$0 10.00 \$0 **Signalized Intersections EACH** 250,000.00 \$0 **Pavement** Mainline SY 1,515 \$ 45.00 \$68,000 System Ramps SY 45.00 \$0 \$104,000 Service Ramps SY 2,300 \$ 45.00 Cross Road SY 1,600 \$ 40.00 \$64,000 Frontage Roads SY 40.00 \$0 Assumed 5" depth Local Roads SY 30.00 \$0 Mainline Shoulders SY 1,515 30.00 \$45,000 Assumed 5" depth Ramp Shoulders 30.00 \$21,000 Assumed 5" depth SY 700 Assumed 5" depth Cross Road Shoulders 1,076 30.00 \$32,000 SY SY Mainline 1,515 8.00 \$12,000 System Ramps SY 8.00 \$0 \$18,000 Service Ramps SY 2,300 8.00 Cross Road SY 1,600 \$ 8.00 \$13,000 Frontage Roads SY 8.00 \$0 Local Roads SY 8.00 \$0 Mainline Shoulders SY 1,515 8.00 \$12,000 Ramp Shoulders SY 700 8.00 \$6,000 Cross Road Shoulders 1,076 SY 8.00 \$9,000 Subbase Mainline SY 1,515 12.00 \$18,000 \$ System Ramps SY 12.00 \$0 Service Ramps SY 2,300 12.00 \$28,000 Cross Road SY 1,600 10.00 \$16,000 Frontage Roads SY 10.00 \$0 10.00 Local Roads SY \$0 Mainline Shoulders SY 1,515 12.00 \$18,000 Ramp Shoulders SY 700 12.00 \$8,000 Cross Road Shoulders SY 1,076 12.00 \$13,000 Major Roadway Subtotal (MRS) \$713,000 **ALLOWANCE ITEMS** DRAINAGE % of MRS 2.0% \$14,000

% of MRS

% of MRS

Planning Study

2.0%

10.0%

\$14,000

\$71,000

SIGNING/MARKING		% of MRS		2.0%	\$14,000
TRAFFIC CONTROL & STAGING		% of MRS		10.0%	\$71,000
Allowance Subtotal					\$184,000
STRUCTURES	UNIT	QUANTITY	L	INIT PRICE	Total
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	ι	INIT PRICE	Total
Temporary Bridges		-	\$	-	\$0
Temporary Roadways		-	\$	-	\$0
Environment Mitigation		-	\$	-	\$0
Community Sensitive Design		-	\$	-	\$0
Hazardous Materials		-	\$	-	\$0
Bypass / Alternate Routes		-	\$	-	\$0
Special Construction Elements Subtotal					\$0
Construction Costs Estimate (CCE)					\$897,000
construction costs Estimate (CCE)					ψο 37,000
PROJECT DELIVERY ALLOWANCE ITEMS					
PRELIMINARY ENGINEERING		% of Item CCE		7.2%	\$65,000
FINAL ENGINEERING		% of Item CCE		5.4%	\$48,000
CONSTRUCTION ENGINEERING		% of Item CCE		9.2%	\$83,000
Delivery Allowance Subtotal					\$196,000
EXTERNAL COSTS					
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					\$1,093,000
RISK ADJUSTMENTS					
Risk Item A				\$0	\$0
Risk Item B				\$0 \$0	\$0 \$0
Risk Item C				\$0 \$0	\$0 \$0
Risk Adjustment Subtotal				ΨΟ	\$0
ESTIMATE UNCERTAINTY					
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					\$1,093,000
Tanada Total Total Tojour Goot Bollinato					φ <u>τ</u> ,σ > σ,σ σ σ

Today: 8/19/19 3:36 PM

Wisconsin Department of Transportation Project I.D. 1130-31-00 **Conceptual Cost Estimate** Highway US 41 **SUMMARY Project Title** US 41 Expansion (Winnebago, Outagamie, and Brown Co.) Version 2.0 **Project Limits** USH 41 & CTH E/Ballard Road Interchange **Project Type** Urban ▼ Topography **Project Duration** Soil Type Coarse-graine 🔻 Multi **Current Year Start Construction** 2019 2028 Start Preliminary **End Construction** 2020 2028 Design Alternative #: Planning Study ITEM DESCRIPTION UNIT QUANTITY **UNIT PRICE** Total NOTES **MAJOR ROADWAY ITEMS** Removing Pavement SY 5.00 \$10,000 Barrier Wall 110.00 \$128,000 LF 1,160 \$ \$43,000 Curb & Gutter LF 2,700 16.00 \$ Beamguard LF 360 \$ 25.00 \$9,000 Beamguard EAT **EACH** \$ 3,000.00 \$6,000 Sidewalk SF 360 20.00 \$7,000 Earthwork \$43,000 Common CY 4,313 10.00 Marsh CY 10.00 \$0 CY 10.00 \$0 Rock \$ CY 10.00 \$0 Borrow CY 10.00 EBS \$0 Signalized Intersections **EACH** \$ 250,000.00 Pavement SY 45.00 \$0 Mainline \$ SY System Ramps \$ 45.00 \$0 Service Ramps SY 8,200 45.00 \$369,000

Cross Road	SY	-	\$ 40.00	\$0	
Frontage Roads	SY	-	\$ 40.00	\$0	
Local Roads	SY	-	\$ 30.00	\$0	Assumed 6" depth
Mainline Shoulders	SY	-	\$ 30.00	\$0	Assumed 6" depth
Ramp Shoulders	SY	4,300	\$ 30.00	\$129,000	Assumed 6" depth
Base					
Mainline	SY	-	\$ 8.00	\$0	Assumed 12" depth
System Ramps	SY	-	\$ 8.00	\$0	
Service Ramps	SY	8,200	\$ 8.00	\$66,000	
Cross Road	SY	-	\$ 8.00	\$0	
Frontage Roads	SY	-	\$ 8.00	\$0	
Local Roads	SY	-	\$ 8.00	\$0	
Mainline Shoulders	SY	-	\$ 8.00	\$0	
Ramp Shoulders	SY	4,300	\$ 8.00	\$34,000	
Subbase					
Mainline	SY	-	\$ 12.00	\$0	Assumed 12" depth
System Ramps	SY	-	\$ 12.00	\$0	
Service Ramps	SY	8,200	\$ 12.00	\$98,000	
Cross Road	SY	-	\$ 10.00	\$0	
Frontage Roads	SY	-	\$ 10.00	\$0	
Local Roads	SY	-	\$ 10.00	\$0	
Mainline Shoulders	SY	-	\$ 12.00	\$0	
Ramp Shoulders	SY	4,300	\$ 12.00	\$52,000	
Major Roadway Subtotal (MRS)				\$994,000	
ALLOWANCE ITEMS					
DRAINAGE		% of MRS	2.0%	\$20,000	
EROSION CONTROL & RESTORATION		% of MRS	2.0%	\$20,000	
ROADWAY INCIDENTALS		% of MRS	10.0%	\$99,000	

% of MRS

5.0%

\$50,000

\$189,000

TRAFFIC CONTROL & STAGING

Allowance Subtotal

STRUCTURES	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 \$0	
Noise Wall Removal	EACH		\$ 75,000.00	\$0	
New Noise Walls	SF		\$ 75,000.00	\$0 \$0	
New Box Culvert/Extension	LF		\$ 2,300.00	\$0 \$0	
	EACH			\$0 \$0	
Sign Bridge - Cantilever					
Sign Bridge - Single Span	EACH	0/ . C C/	,	\$0	
Structure Incidentals Structure SubTotal		% of Structures	10%	\$0 \$0	
Structure Sub I otal				\$ 0	
SPECIAL CONSTRUCTION ELEMENTS	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Temporary Bridges		-	\$ -	\$0	
Temporary Roadways		-	\$ -	\$0	
Environment Mitigation		-	\$ -	\$0	
Community Sensitive Design			\$ -	\$0	
Hazardous Materials		-	\$ -	\$0	
Bypass / Alternate Routes		-	\$ -	\$0	
Special Construction Elements Subtotal				\$0	I
Construction Costs Estimate (CCE)				\$1,183,000	
construction costs Estimate (CCE)				\$1,100,000	
PROJECT DELIVERY ALLOWANCE ITEMS					
PRELIMINARY ENGINEERING		% of Item CCE	7.2%	\$85,000	
FINAL ENGINEERING		% of Item CCE	5.4%	\$64,000	
CONSTRUCTION ENGINEERING		% of Item CCE	9.2%	\$109,000	
Delivery Allowance Subtotal				\$258,000	l .
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	I
Base Project Cost Estimate				\$1,441,000	
·				Ψ1,111,000	
RISK ADJUSTMENTS					NOTES
Risk Item A			\$0	\$0	
Risk Item B			\$0	\$0	
Risk Item C			\$0	\$0	
Risk Adjustment Subtotal				\$0	l
ESTIMATE UNCERTAINTY					NOTES
Uncertainty Item A			\$0	\$0	
Uncertainty Item B			\$0 \$0	\$0 \$0	
Uncertainty Item C			\$0	\$0	
Estimate Uncertainty Subtotal			 	\$0	
					•
Current Year Total Project Cost Estimate				\$1,441,000	l

Today: 9/13/19 9:37 AM

Wisconsin Department of Transportation Project I.D. 1130-31-00 **Conceptual Cost Estimate** Highway US 41 **SUMMARY Project Title** US 41 Expansion (Winnebago, Outagamie, and Brown Co.) Version 2.0 **Project Limits** USH 41 & WIS 47 Interchange **Project Type** Urban Moderate Topography Coarse-grain 🔻 **Project Duration** Soil Type Multi **Current Year** Start Construction 2019 2028 Start Preliminary **End Construction** 2020 2028 Design Alternative #: Planning Study

ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
MAJOR ROADWAY ITEMS					
Removing Pavement	SY	2,347	\$ 10.00	\$23,000	
Barrier Wall	LF		\$ 150.00	\$0	
Curb & Gutter	LF		\$ 25.00	\$0	
Beamguard	LF		\$ 30.00	\$18,000	
Beamguard EAT	EACH		\$ 3,000.00	\$3,000	
Box Culvert	EACH		\$ 100,000.00	\$0	
Earthwork			,	**	
Common	CY	3,615	\$ 12.00	\$43,000	
Marsh	CY		\$ -	\$0	
Rock	CY		\$ -	\$0	
Borrow	CY		\$ -	\$0	
EBS	CY		\$ -	\$0	
	Ŭ.		Ψ	Ψ0	
Signalized Intersections	EACH	-	\$ 250,000.00	\$0	
Pavement				**	
Mainline	SY	1,906	\$ 50.00	\$95,000	
System Ramps	SY		\$ 50.00	\$0	
Service Ramps	SY		\$ 50.00	\$0	
Cross Road	SY		\$ 45.00	\$0	
Frontage Roads	SY		\$ 45.00	\$0	
Local Roads	SY		\$ 30.00	\$0	
Mainline Shoulders	SY		\$ 30.00	\$51,000	Assumed 5" depth
Ramp Shoulders	SY		\$ 30.00	\$0	Assumed 5" depth
Base	Ţ.		50.00	Ψ0	/ localities of suspen
Mainline	SY	1,906	\$ 8.00	\$15,000	
System Ramps	SY		\$ 8.00	\$0	
Service Ramps	SY	_	\$ 8.00	\$0	
Cross Road	SY		\$ 8.00	\$0	
Frontage Roads	SY		\$ 8.00	\$0	
Local Roads	SY		\$ 8.00	\$0	
Mainline Shoulders	SY	1,709	\$ 8.00	\$14,000	
Ramp Shoulders	SY	-	\$ 8.00	\$0	
Subbase					
Mainline	SY	1,906	\$ 12.00	\$23,000	
System Ramps	SY	-	\$ 12.00	\$0	
Service Ramps	SY	-	\$ 12.00	\$0	
Cross Road	SY	-	\$ 10.00	\$0	
Frontage Roads	SY	-	\$ 10.00	\$0	
Local Roads	SY	-	\$ 10.00	\$0	
Mainline Shoulders	SY	1,709	\$ 12.00	\$21,000	
Ramp Shoulders	SY	-	\$ 12.00	\$0	
Major Roadway Subtotal (MRS)				\$306,000	l
ALLOWANCE ITEMS					
		0/ of MDC	2.00/	00.000	
DRAINAGE EROSION CONTROL & DESTORATION		% of MRS	2.0%	\$6,000	
EROSION CONTROL & RESTORATION ROADWAY INCIDENTALS		% of MRS % of MRS	2.0% 10.0%	\$6,000 \$31,000	
		% of MRS	10.0%	\$31,000	
TRAFFIC CONTROL & STAGING		/0 UI WIKS	10.070	\$31,000	

\$74,000

Allowance Subtotal

STRUCTURES	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Bridge Removal	EACH	QUANTIT	\$ 65,000.00	10tai \$0	NOTES
New Bridge (Single Level Interchange)	SF		\$ 120.00	\$0 \$0	
Bridge Redecking	SF	-	\$ 70.00	\$0 \$0	
Bridge Widening	SF		\$ 140.00	\$0 \$0	
New Retaining Wall	SF	_	\$ 70.00	\$0 \$0	
Noise Wall Removal	EACH		\$ 75,000.00	\$0 \$0	
New Noise Walls	SF	-	\$ 50.00	\$0 \$0	
New Box Culvert/Extension	LF	-	\$ 2,300.00	\$0 \$0	
Sign Bridge - Cantilever	EACH	-	\$ 30,000.00	\$0 \$0	
Sign Bridge - Cartilevel	EACH	-	\$ 60,000.00	\$0 \$0	
Structure Incidentals	LACIT	% of Structures	10%	\$0 \$0	
Structure SubTota	nl			\$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 Subtota	al			\$0	
Construction Costs Estimate (CCE				\$380,000	
					-
PROJECT DELIVERY ALLOWANCE ITEMS					
PRELIMINARY ENGINEERING		% of Item CCE	7.2%	\$27,000	
FINAL ENGINEERING		% of Item CCE	5.4%	\$21,000	
CONSTRUCTION ENGINEERING		% of Item CCE	9.2%	\$35,000	
Delivery Allowance Subtota	ıl			\$83,000	l
EXTERNAL COSTS					NOTES
REAL ESTATE		% of Item CCE	0.0%	\$0	110120
COMPENSABLE UTILITIES		% of Item CCE	0.0%	\$0 \$0	
			0.0%		
JURISDICTIONAL TRANSFERS External Costs Subtota		% of Item CCE	0.0%	\$0 \$0	
External Costs Subtota	Щ			30	
Base Project Cost Estimate				\$463,000	
RISK ADJUSTMENTS					NOTES
Risk Item A			\$0	\$0	
Risk Item B			\$0	\$0	
Risk Item C			\$0	\$0	
Risk Adjustment Subtota	ıl			\$0	
ESTIMATE UNCERTAINTY					NOTES
			Φ0	co.	HOTES
Uncertainty Item A			\$0 \$0	\$0 50	
Uncertainty Item B Uncertainty Item C			\$0 \$0	\$0 \$0	
Estimate Uncertainty Subtota	1		φυ	\$0 \$0	
Estimate officertainty subtota				- 	
Current Year Total Project Cost Estimate				\$463,000	
					-

Wisconsi	n Department of T	ransportation			Today: 8/19/19 3:38 PM
0	·				
Conceptual Cost Estimate	Highway		1130-31-00 US 41		
SUMMARY	Project Title	LIC 41 Evpopo	on (Winnebago, Outagamie		
Version 2.0	Project Limits				
			H 41 & CTH N Interch		
	Project Type	Urban	Topography	Moderate	
	Project Duration	Multi	Soil Type	Coarse-grain	
	Current Year	2040	Start Construction	2020	
	Start Preliminary	2019	End Construction	2028	
	Design	2020	Life Construction	2028	
	Alternative #:		Planning Study		
ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
MAJOR ROADWAY ITEMS		·			
Removing Pavement	SY	1,300		\$13,000	
Barrier Wall	LF LF	350	\$ 150.00 \$ 25.00	\$53,000	
Curb & Gutter Beamguard	LF LF	3 350	\$ 25.00 \$ 30.00	\$0 \$11,000	
Beamguard EAT	EACH	330	\$ 3,000.00	\$9,000	
Box Culvert	EACH	1	\$ 100,000.00	\$100,000	
Earthwork	2.7				
Common	CY	2,282	\$ 12.00	\$27,000	
Marsh Rock	CY CY	-	\$ - \$ -	\$0 \$0	
Borrow	CY		\$ -	\$0 \$0	
EBS	CY	-	\$ -	\$0	
Signalized Intersections	EACH	-	\$ 250,000.00	\$0	
Pavement	CV		£ 50.00	¢0	
Mainline System Ramps	SY SY	-	\$ 50.00 \$ 50.00	\$0 \$0	
Service Ramps	SY	3,924	\$ 50.00	\$196,000	
Cross Road	SY	-	\$ 45.00	\$0	
Frontage Roads	SY	-	\$ 45.00	\$0	
Local Roads	SY	-	\$ 30.00	\$0	
Mainline Shoulders Ramp Shoulders	SY SY	2,500	\$ 30.00 \$ 30.00	\$0 \$75,000	Assumed 5" depth Assumed 5" depth
Base	31	2,300	ψ 30.00	\$15,000	Assumed 5 depth
Mainline	SY	-	\$ 8.00	\$0	
System Ramps	SY	-	\$ 8.00	\$0	
Service Ramps	SY	6,380	\$ 8.00	\$51,000	
Cross Road Frontage Roads	SY SY	-	\$ 8.00 \$ 8.00	\$0 \$0	
Local Roads	SY	-	\$ 8.00	\$0 \$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 \$0	
Service Ramps	SY	6,380	\$ 12.00	\$77,000	
Cross Road	SY	-	\$ 10.00	\$0	
Frontage Roads	SY	-	\$ 10.00	\$0	
	SY	-	\$ 10.00 \$ 12.00	\$0 \$0	
Local Roads Mainline Shoulders			Ψ 12.00		
Local Roads Mainline Shoulders Ramp Shoulders	SY SY	-	\$ 12.00	\$0	
Mainline Shoulders	SY SY	-	\$ 12.00	\$0 \$612,000	
Mainline Shoulders Ramp Shoulders Major Roadway Subtotal (MRS	SY SY	-	\$ 12.00	·	
Mainline Shoulders Ramp Shoulders Major Roadway Subtotal (MRS	SY SY	% of MDS		\$612,000	
Mainline Shoulders Ramp Shoulders Major Roadway Subtotal (MRS ALLOWANCE ITEMS DRAINAGE	SY SY	% of MRS	2.0%	\$ 612,000 \$12,000	
Mainline Shoulders Ramp Shoulders Major Roadway Subtotal (MRS	SY SY	% of MRS % of MRS % of MRS		\$612,000	
Mainline Shoulders Ramp Shoulders Major Roadway Subtotal (MRS ALLOWANCE ITEMS DRAINAGE EROSION CONTROL & RESTORATION	SY SY	% of MRS	2.0% 2.0%	\$612,000 \$12,000 \$12,000	

ethi iati inee					NOTES
STRUCTURES	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	271011	% of Structures	10%	\$0	
Chaotaro mordontalo		70 of Structures	1070	ΨΟ	
Structure SubTot	al			\$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 \$0	
Hazardous Materials	Insert		\$ - \$ -	\$0 \$0	
Bypass / Alternate Routes	Insert	-	\$ - \$ -	\$0 \$0	
Special Construction Elements Subtots		<u>·</u>	9 -	\$0 \$0	
×F	-			7.	
Construction Costs Estimate (CCE				\$758,000	
PROJECT DELIVERY ALLOWANCE ITEMS					
PRELIMINARY ENGINEERING		% of Item CCE	7.2%	\$55,000	
FINAL ENGINEERING		% of Item CCE	5.4%	\$41,000	
CONSTRUCTION ENGINEERING		% of Item CCE	9.2%	\$70,000	
Delivery Allowance Subtota	al	70 01 Helli CCE	>.270	\$166,000	
·	ui			φ100,000	
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 Subtot	al			\$0	
Base Project Cost Estimate				\$924,000	
RISK ADJUSTMENTS					NOTES
Risk Item A			\$0	\$0	.0.22
Risk Item B			\$0 \$0	\$0 \$0	
Risk Item C			\$0 \$0	\$0 \$0	
Risk Adjustment Subtot	al		ΨΟ	\$0	
·					
ESTIMATE UNCERTAINTY					NOTES
Uncertainty Item A			\$0	\$0	
Uncertainty Item B			\$0	\$0	
Uncertainty Item C			\$0	\$0	
Estimate Uncertainty Subtot	al			\$0	l
Current Year Total Project Cost Estimate				\$924,000	
ouriont roar rotal Project Cost Estimate				\$72 4 ,000	•

Wisconsin Department of Transportation Project I.D. 1130-31-00 **Conceptual Cost Estimate** Highway US 41 **SUMMARY Project Title** 41 Expansion (Winnebago, Outagamie, and Brown Counti Version 2.0 **Project Limits** Segment 7: County S Interchange **▼** Topography **Project Type** Urban Moderate **Project Duration** Soil Type Coarse-grained Multi **Current Year Start Construction** 2019 2028 **Start Preliminary End Construction** 2020 2028 Design Alternative #: Planning Study

Today: 9/13/19 10:20 AM

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	l			\$176,000
STRUCTURES (see STRUCTURE tab)	UNIT	QUANTITY	UNIT PRICE	Total
Bridge Removal	EACH		\$ 65,000.00	\$0
New Bridge (Single Level Interchange)	SF		\$ 120.00	\$0 \$0
Bridge Redecking	SF		\$ 70.00	\$0 \$0
Bridge Widening	SF		\$ 140.00	\$0 \$0
New Retaining Wall	SF		\$ 70.00	\$0 \$0
Noise Wall Removal	EACH	•	\$ 75,000.00	\$0 \$0
New Noise Walls	SF	-	\$ 50.00	\$0 \$0
New Box Culvert/Extension	LF	•	\$ 2,300.00	\$0 \$0
Sign Bridge - Cantilever	EACH	-	\$ 30,000.00	\$0 \$0
Sign Bridge - Cantilever	EACH	•	\$ 60,000.00	\$0 \$0
Structure Incidentals	LACIT	% of Structures	10%	\$0 \$0
Structure moluentais		70 Of Structures	1070	\$ 0
Structure SubTotal				\$0
SPECIAL CONSTRUCTION ELEMENTS	UNIT	QUANTITY	UNIT PRICE	Total
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	l			\$0
Construction Costs Estimate (CCE)				\$976,000
· · ·				\$976,000
PROJECT DELIVERY ALLOWANCE ITEMS				
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING		% of Item CCE	7.2%	\$70,000
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING		% of Item CCE	5.4%	\$70,000 \$53,000
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING				\$70,000 \$53,000 \$90,000
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING PRINAL ENGINEERING		% of Item CCE	5.4%	\$70,000 \$53,000
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING Delivery Allowance Subtotal		% of Item CCE	5.4%	\$70,000 \$53,000 \$90,000
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING Delivery Allowance Subtotal EXTERNAL COSTS		% of Item CCE	5.4%	\$70,000 \$53,000 \$90,000
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE		% of Item CCE % of Item CCE	5.4% 9.2%	\$70,000 \$53,000 \$90,000 \$213,000
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES		% of Item CCE % of Item CCE % of Item CCE	5.4% 9.2% 0.0%	\$70,000 \$53,000 \$90,000 \$213,000
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES		% of Item CCE	5.4% 9.2% 0.0% 0.0%	\$70,000 \$53,000 \$90,000 \$213,000 \$0 \$0
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS		% of Item CCE	5.4% 9.2% 0.0% 0.0%	\$70,000 \$53,000 \$90,000 \$213,000 \$0 \$0 \$0
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate		% of Item CCE	5.4% 9.2% 0.0% 0.0%	\$70,000 \$53,000 \$90,000 \$213,000 \$0 \$0 \$0
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS		% of Item CCE	5.4% 9.2% 0.0% 0.0% 0.0%	\$70,000 \$53,000 \$90,000 \$213,000 \$0 \$0 \$0 \$0 \$1,189,000
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A		% of Item CCE	5.4% 9.2% 0.0% 0.0% 0.0%	\$70,000 \$53,000 \$90,000 \$213,000 \$0 \$0 \$0 \$0 \$0
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item A		% of Item CCE	5.4% 9.2% 0.0% 0.0% 0.0%	\$70,000 \$53,000 \$90,000 \$213,000 \$0 \$0 \$0 \$0 \$0 \$0
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B Risk Item C		% of Item CCE	5.4% 9.2% 0.0% 0.0% 0.0%	\$70,000 \$53,000 \$90,000 \$213,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B Risk Item C Risk Adjustment Subtota		% of Item CCE	5.4% 9.2% 0.0% 0.0% 0.0%	\$70,000 \$53,000 \$90,000 \$213,000 \$0 \$0 \$0 \$0 \$0 \$0
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B Risk Item C		% of Item CCE	5.4% 9.2% 0.0% 0.0% 0.0% 0.0%	\$70,000 \$53,000 \$90,000 \$213,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B Risk Item C Risk Adjustment Subtota ESTIMATE UNCERTAINTY Uncertainty Item A		% of Item CCE	5.4% 9.2% 0.0% 0.0% 0.0% 0.0%	\$70,000 \$53,000 \$90,000 \$213,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B Risk Item C Risk Adjustment Subtota ESTIMATE UNCERTAINTY Uncertainty Item A		% of Item CCE	5.4% 9.2% 0.0% 0.0% 0.0% 0.0%	\$70,000 \$53,000 \$90,000 \$213,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B Risk Item C Risk Adjustment Subtota ESTIMATE UNCERTAINTY Uncertainty Item A Uncertainty Item B Uncertainty Item B Uncertainty Item C		% of Item CCE	5.4% 9.2% 0.0% 0.0% 0.0% 0.0%	\$70,000 \$53,000 \$90,000 \$213,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B Risk Item C Risk Adjustment Subtota ESTIMATE UNCERTAINTY Uncertainty Item A Uncertainty Item A Uncertainty Item B		% of Item CCE	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$70,000 \$53,000 \$90,000 \$213,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B Risk Item C Risk Adjustment Subtota ESTIMATE UNCERTAINTY Uncertainty Item A Uncertainty Item B Uncertainty Item B Uncertainty Item C		% of Item CCE	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$70,000 \$53,000 \$90,000 \$213,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

Mainline	Wisconsi	n Department of T	ransportation			Today: 8/20/19 9:35 AM
SUMMARY Version 2.0	Concentual Cost Estimate	Project I.D.		1130-31-00		
Version 2.0 Project Times Project Times Project Times Project Times Project Times Project Duration Project Dur	•	Highway		US 41		
Project Limits		Project Title	US 41 Expansion (V	Vinnebago Outagan		
Project Dryace Pro	version 2.0	Project Limits			2	
Project Duration Current Year 2019 Construction 2048		Project Type				
Current Year Start Preciminary Design Construction					Coarse-grained	
Current varies Past Preliminary Past Present		Project Duration	Multi	_	course gramed	
Design D		Current Year	2019		2048	
TIEM DESCRIPTION			2043	End Construction	2052	
MAJOR ROADWAY ITEMS SY 5.590 S 5.00 S280,000				DI : 01 I	2002	
MAJOR POADWAY TEMS SPAN S.5,900 S.280,000 SBarrier Wall LF 2.300 S.10.00 \$255,000 SES,000 SES,		THIOTHURIVO III		Planning Study		
MAJOR POADWAY TEMS SPAN S.5,900 S.280,000 SBarrier Wall LF 2.300 S.10.00 \$255,000 SES,000 SES,	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Barrier Wall						330.120
Carba Carb						
			· · · · · · · · · · · · · · · · · · ·			
March CY		LI	24,200	Ψ 10.00	φ367,000	
Borrow	Common		57,500			
Borrow CY			-			
EBS			-			
Natinine			-			
Natinine	Signalized Intersections	EACH		\$ 250,000,00	\$0	
System Ramps	Pavement	LACIT		\$ 230,000.00	φ0	
Service Ramps			-			
Cross Road			-			
Frontage Roads	•					
Local Roads			32,400			
Ramp Shoulders		SY	12,300			Assumed 6" depth
Mainline			-			
Mainline SY - \$ 8.00 \$0 Assumed 12" depth System Ramps SY 1.20 \$ 8.00 \$0 Service Ramps SY 11.200 \$ 8.00 \$259,000 Cross Road SY 32,400 \$ 8.00 \$259,000 Frontage Roads SY 12,300 \$ 8.00 \$98,000 Mainline Shoulders SY 2,200 \$ 8.00 \$18,000 Subbase Mainline SY - \$ 12.00 \$0 System Ramps SY - \$ 12.00 \$0 Service Ramps SY - \$ 12.00 \$0 Service Ramps SY - \$ 12.00 \$0 Cross Road SY - \$ 12.00 \$0 Service Ramps SY 12.00 \$ 134,000 Frontage Roads SY - \$ 10.00	•	SY	2,200	\$ 30.00	\$66,000	Assumed 6" depth
Service Ramps		SY	-	\$ 8.00	\$0	Assumed 12" depth
Cross Road			-			
Frontage Roads	•					
Local Roads			32,400			
Ramp Shoulders			12,300			
Mainline			-			
Mainline SY - \$ 12.00 \$0 Assumed 12" depth System Ramps SY - \$ 12.00 \$0 Service Ramps SY 11,200 \$ 12.00 \$134,000 Cross Road SY 32,400 \$ 10.00 \$324,000 Frontage Roads SY - \$ 10.00 \$0 Local Roads SY 12,300 \$ 10.00 \$123,000 Mainline Shoulders SY - \$ 12.00 \$0 Ramp Shoulders SY 2,200 \$ 12.00 \$0 Major Roadway Subtotal (MRS) **A of MRS **A second Structure*	•	SY	2,200	\$ 8.00	\$18,000	
System Ramps		SY	-	\$ 12.00	\$0	Assumed 12" depth
Cross Road			-			
Frontage Roads	· ·					
Local Roads			32,400			
Mainline Shoulders			12 300			
Major Roadway Subtotal (MRS) \$4,802,000		SY	-			
ALLOWANCE ITEMS DRAINAGE % of MRS 11.4% \$548,000 EROSION CONTROL & RESTORATION % of MRS 9.3% \$444,000 LIGHTING % of MRS 1.4% \$68,000 ROADWAY INCIDENTALS % of MRS 28.9% \$1,385,000 SIGNING/MARKING % of MRS 3.0% \$145,000 TRAFFIC CONTROL & STAGING % of MRS 4.8% \$231,000 ITS/ FTMS % of MRS 1.0% \$48,000	Ramp Shoulders	SY	2,200	\$ 12.00	\$26,000	
DRAINAGE % of MRS 11.4% \$548,000 EROSION CONTROL & RESTORATION % of MRS 9.3% \$444,000 LIGHTING % of MRS 1.4% \$68,000 ROADWAY INCIDENTALS % of MRS 28.9% \$1,385,000 SIGNING/MARKING % of MRS 3.0% \$145,000 TRAFFIC CONTROL & STAGING % of MRS 4.8% \$231,000 ITS/ FTMS % of MRS 1.0% \$48,000	Major Roadway Subtotal (MRS	5)			\$4,802,000	
DRAINAGE % of MRS 11.4% \$548,000 EROSION CONTROL & RESTORATION % of MRS 9.3% \$444,000 LIGHTING % of MRS 1.4% \$68,000 ROADWAY INCIDENTALS % of MRS 28.9% \$1,385,000 SIGNING/MARKING % of MRS 3.0% \$145,000 TRAFFIC CONTROL & STAGING % of MRS 4.8% \$231,000 ITS/ FTMS % of MRS 1.0% \$48,000	ALLOWANDE INC.					
EROSION CONTROL & RESTORATION % of MRS 9.3% \$444,000 LIGHTING % of MRS 1.4% \$68,000 ROADWAY INCIDENTALS % of MRS 28.9% \$1,385,000 SIGNING/MARKING % of MRS 3.0% \$145,000 TRAFFIC CONTROL & STAGING % of MRS 4.8% \$231,000 ITS/ FTMS % of MRS 1.0% \$48,000			% of MDC	11.40/	\$549,000	
LIGHTING % of MRS 1.4% \$68,000 ROADWAY INCIDENTALS % of MRS 28.9% \$1,385,000 SIGNING/MARKING % of MRS 3.0% \$145,000 TRAFFIC CONTROL & STAGING % of MRS 4.8% \$231,000 ITS/ FTMS % of MRS 1.0% \$48,000						
SIGNING/MARKING % of MRS 3.0% \$145,000 TRAFFIC CONTROL & STAGING % of MRS 4.8% \$231,000 ITS/ FTMS % of MRS 1.0% \$48,000	LIGHTING					
TRAFFIC CONTROL & STAGING % of MRS 4.8% \$231,000 ITS/ FTMS % of MRS 1.0% \$48,000	ROADWAY INCIDENTALS					
ITS/ FTMS % of MRS 1.0% \$48,000						
	Allowance Subtota	ıl				

STRUCTURES (see STRUCTURE tab)	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Bridge Removal	EACH		\$ 65,000.00	\$65,000	
New Bridge (Single Level Interchange)	SF	2,800	\$ 120.00	\$336,000	
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 \$0	
New Box Culvert/Extension	LF	571	\$ 2,300.00	\$1,313,000	Box culverts under USH 41 ramps
Sign Bridge - Cantilever	EACH	3/1	\$ 30,000.00	\$1,313,000	are included in mainline estimate.
		-			are included in mainline estimate.
Sign Bridge - Single Span Structure Incidentals	EACH	0/ 80/	\$ 60,000.00	\$0	
Structure incidentals		% of Structures	10%	\$171,000	
Structure SubTotal				\$1,885,000	
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	
Special Construction Elements Subtotal				\$0	
•					
Construction Costs Estimate (CCE)				\$9,556,000	
CONTEXT SENSITIVE SOLUTIONS (CSS) CSS		% of Item CCE	5%	\$478,000	
Base Construction Costs Estimate (BCCE)		70 OF TALLIT CCE	370	\$10,034,000	
SCOPE CHANGE ALLOWANCE ITEMS					I
PROJECT SCOPE INCREASE ALLOWANCE		% of Item BCCE	24%	\$2,408,000	
Estimated Const. Let Amount (ECLA)				\$12,442,000	
PROJECT DELIVERY ALLOWANCE ITEMS					
PRELIMINARY ENGINEERING		% of Item BCCE	7.2%	\$896,000	
FINAL ENGINEERING		% of Item BCCE	5.4%	\$672,000	
CONSTRUCTION ENGINEERING		% of Item BCCE	9.2%	\$1,145,000	
CONST CHANGE ORDERS & CLAIMS					
		% of Item BCCE	10.4%	\$1,294,000	
FRAFFIC MITIGATION PUBLIC INVOLVEMENT		% of Item BCCE % of Item BCCE	1.5% 1.0%	\$187,000	
Delivery Allowance Subtotal		% of Reili BCCE	1.076	\$124,000 \$4,318,000	
EXTERNAL COSTS					NOTES
		90/ -fil DCCE	¢002.000	¢002 000	NOTES
REAL ESTATE		8% of Item BCCE	\$803,000	\$803,000	
COMPENSABLE UTILITIES		3% of Item BCCE	\$301,000	\$301,000	
IURISDICTIONAL TRANSFERS			\$0	\$0	
Other			\$0	\$0	
Other			\$0	\$0	
Other			\$0	\$0	
Other			\$0	\$0	
Other			\$0	\$0	
External Costs Subtotal				\$1,104,000	
Base Project Cost Estimate				\$17,864,000	
RISK ADJUSTMENTS					NOTES
Roundabout Risk		10% of Item BCCE	\$1,003,000	\$1,003,000	
Risk Item B			\$0	\$0	
Risk Item C Risk Adjustment Subtotal			\$0	\$0 \$1,003,000	
·					NOTES
ESTIMATE UNCERTAINTY Uncertainty Item A			\$0	\$0	NOTES
Uncertainty Item B			\$0 \$0	\$0 \$0	
Uncertainty Item C			\$0 \$0	\$0 \$0	
Estimate Uncertainty Subtotal				\$0	
Current Year Total Project Cost Estimate				\$18,867,000	i
ourreilt fear Total Project Cost Estimate				\$10,007,000	l

Wisconsin	Department of T	ransportation			Today: 8/20/19 9:36 AM
Concentual Cost Estimate	Project I.D.		1130-31-00		
Conceptual Cost Estimate	Highway				
SUMMARY	Project Title	US 41 Expansion	US 41 ı (Winnebago, Outagan		
Version 2.0	Project Limits			1	
			WIS 125/College Ave I	Moderate	
	Project Type	Urban	Topography	Moderate	
	Project Duration	Multi	Soil Type	Coarse-grained	
	Current Year	2019	Start Construction	2048	
	Start Preliminary		End Construction		-
	Design	2043	End Construction	2052	
	Alternative #		Planning Study		
ITEM DESCRIPTION	LINIT	OUANTITY	LINIT DDIOE	Tatal	NOTES
ITEM DESCRIPTION MAJOR ROADWAY ITEMS	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Removing Pavement	SY	112,400	\$ 5.00	\$562,000	
Barrier Wall	LF	-	\$ 110.00	\$0	
Curb & Gutter Earthwork	LF	41,500	\$ 16.00	\$664,000	
Common	CY	125,200	\$ 10.00	\$1,252,000	
Marsh	CY	-	\$ 10.00	\$0	
Rock	CY	-	\$ 10.00	\$0	
Borrow EBS	CY CY	-	\$ 10.00 \$ 10.00	\$0 \$0	
EBS	O1		\$ 10.00	φυ	
Signalized Intersections	EACH	4	\$ 250,000.00	\$1,000,000	
Pavement Mainline	SY	_	\$ 45.00	\$0	
System Ramps	SY		\$ 45.00	\$0 \$0	
Service Ramps	SY	14,800	\$ 45.00	\$666,000	
Cross Road	SY	63,400	\$ 40.00	\$2,536,000	
Frontage Roads Local Roads	SY SY	10,300		\$412,000 \$1,200,000	Assumed 6" donth
Mainline Shoulders	SY	40,000	\$ 30.00	\$1,200,000	Assumed 6" depth Assumed 6" depth
Ramp Shoulders	SY	5,000		\$150,000	Assumed 6" depth
Base	0.7		.	ΦO	
Mainline System Ramps	SY SY	-	\$ 8.00 \$ 8.00	\$0 \$0	Assumed 12" depth
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 Mainline Shoulders	SY SY	40,000	\$ 8.00 \$ 8.00	\$320,000 \$0	
Ramp Shoulders	SY	5,000		\$40,000	
Subbase	CV		e 12.00	фО	A correspond 10th decords
Mainline System Ramps	SY SY	-	\$ 12.00 \$ 12.00	\$0 \$0	Assumed 12" depth
Service Ramps	SY	14,800		\$178,000	
Cross Road	SY	63,400		\$634,000	
Frontage Roads	SY	10,300		\$103,000	
Local Roads Mainline Shoulders	SY SY	40,000	\$ 10.00 \$ 12.00	\$400,000 \$0	
Ramp Shoulders	SY	5,000		\$60,000	
Major Roadway Subtotal (MRS)				\$10,884,000	
				,,.	1
ALLOWANCE ITEMS DRAINAGE		% of MRS	11.4%	\$1,242,000	
EROSION CONTROL & RESTORATION		% of MRS	9.3%	\$1,242,000	
LIGHTING		% of MRS	1.4%	\$154,000	
ROADWAY INCIDENTALS		% of MRS	28.9%	\$3,140,000	
SIGNING/MARKING TRAFFIC CONTROL & STAGING		% of MRS	3.0% 4.8%	\$330,000 \$524,000	
ITS/ FTMS		% of MRS % of MRS	1.0%	\$524,000 \$109,000	
					•
Allowance Subtotal				\$6,506,000	

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	
New Bridge (Multi-level Interchange)	Insert	-	\$ -	\$0	
Bridge Redecking	SF		\$ 70.00	\$0	
Bridge Widening	SF	-	\$ 140.00	\$0	
Retaining Wall Removal	Insert SF	-	\$ -	\$0	
New Retaining Wall			\$ 70.00	\$0	
Noise Wall Removal New Noise Walls	EACH SF		\$ 75,000.00 \$ 50.00	\$0 \$0	
New Box Culvert/Extension	LF EACH	1,030	\$ 2,300.00 \$ 30,000.00	\$2,369,000	
Sign Bridge - Cantilever	EACH	-		\$0 \$0	
Sign Bridge - Single Span MSE Walls		-			
Secant Walls	Insert	-	\$ - \$ -	\$0	
Secant walls Structure Incidentals	Insert	- 0/ - 6.5tt	T	\$0	
Structure incidentals		% of Structures	10%	\$237,000	
Structure SubTotal				\$2,606,000	
SPECIAL CONSTRUCTION ELEMENTS	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Temporary Bridges	Insert	QUANTITY	\$ -	10tai \$0	NOTES
Temporary Bridges Temporary Roadways	Insert	-	\$ - \$ -	\$0 \$0	
Environment Mitigation	Insert	-	\$ - \$ -	\$0 \$0	
Community Sensitive Design	Insert	-	\$ - \$ -	\$0 \$0	
Hazardous Materials	Insert	-	\$ - \$ -	\$0 \$0	
Bypass / Alternate Routes	Insert		\$ -	\$0 \$0	
Reconfiguration of WIS 125/Casaloma Dr.	EACH	1	\$ 5,000,000.00	\$5,000,000	
Special Construction Elements Subtotal	2,1011	•	φ 2,000,000.00	\$5,000,000	
Special Constituction Elements Subtotal				ψ3,000,000	
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					I
PROJECT SCOPE INCREASE ALLOWANCE		% of Item BCCE	24%	\$6,299,000	
Estimated Const. Let Amount (ECLA)				\$32,545,000	
				+0=,0=0,000	
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		370 Of Relif Beel	\$0	\$0	
External Costs Subtotal			ΨΟ	\$2,887,000	
Base Project Cost Estimate				\$46,724,000	I
RISK ADJUSTMENTS			**	, do	NOTES
Risk Item A			\$0 \$0	\$0	
Risk Item B			\$0 \$0	\$0 \$0	
Risk Item C Risk Adjustment Subtotal			\$0	\$0 \$0	
ESTIMATE UNCERTAINTY					NOTES
			¢ 0	¢0	NOTES
Uncertainty Item A			\$0 \$0	\$0 \$0	
Uncertainty Item B Uncertainty Item C			\$0 \$0	\$0 \$0	
			\$0	\$0	
Estimate Uncertainty Subtotal				\$0	
Current Year Total Project Cost Estimate				\$46,724,000	i
				Ψ10,721,000	

Today: 8/20/19 9:37 AM

Wisconsin Department of Transportation Project I.D. 1130-31-00 **Conceptual Cost Estimate** Highway US 41 SUMMARY **Project Title** US 41 Expansion (Winnebago, Outagamie, and Brown Co) Version 2.0 USH 41 & WIS 96/Wisconsin Ave Interchange **Project Limits Project Type** Topography Moderate Urban **Project Duration** Soil Type Multi **Current Year Start Construction** 2019 2048 Start Preliminary **End Construction** 2043 2052 Design Alternative #: Planning Study **ITEM DESCRIPTION QUANTITY UNIT PRICE** UNIT Total NOTES **MAJOR ROADWAY ITEMS Removing Pavement** 86,500 5.00 \$433,000 **Barrier Wall** LF 110.00 \$0 **Curb & Gutter** LF 33,900 \$ 16.00 \$542,000 Earthwork \$875,000 CY 10.00 Common 87,500 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 \$0 SY \$ 45.00 Service Ramps SY 12,000 \$ 45.00 \$540,000 \$1,872,000 Cross Road SY 46,800 40.00 Frontage Roads SY 4,700 \$ 40.00 \$188,000 Local Roads SY 24,200 30.00 \$726,000 Assumed 6" depth \$ Mainline Shoulders SY 30.00 \$0 Assumed 6" depth Ramp Shoulders SY 4,600 30.00 \$138,000 Assumed 6" depth Base SY Mainline 8.00 \$0 Assumed 12" depth \$ System Ramps SY 8.00 \$0 Service Ramps 12,000 \$96,000 SY 8.00 \$ Cross Road SY 46,800 \$ 8.00 \$374,000 Frontage Roads SY 4,700 8.00 \$38,000 \$ Local Roads SY 24,200 8.00 \$194,000 Mainline Shoulders SY 8.00 \$0 Ramp Shoulders SY 4,600 8.00 \$37,000 Subbase SY Assumed 12" depth Mainline 12.00 \$0 System Ramps SY 12.00 \$0 Service Ramps SY 12,000 12.00 \$144,000 \$ Cross Road SY 46,800 10.00 \$468,000 Frontage Roads SY 4,700 10.00 \$47,000 Local Roads 10.00 \$242,000 SY 24,200 Mainline Shoulders SY 12.00 \$0 Ramp Shoulders SY 4,600 12.00 \$55,000 Major Roadway Subtotal (MRS) \$8,009,000 **ALLOWANCE ITEMS** DRAINAGE 11.4% % of MRS \$914,000 **EROSION CONTROL & RESTORATION** % of MRS 9.3% \$741,000 LIGHTING % of MRS 1.4% \$113,000 ROADWAY INCIDENTALS % of MRS 28.9% \$2,311,000 SIGNING/MARKING % of MRS 3.0% \$243,000 TRAFFIC CONTROL & STAGING % of MRS 4.8% \$386,000 % of MRS ITS/ FTMS 1.0% \$80,000

\$4,788,000

Allowance Subtotal

STRUCTURES	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Bridge Removal	EACH	1		\$65,000	Railroad bridge
New Bridge (Single Level Interchange)	SF		\$ 120.00	\$708,000	Railroad bridge
Bridge Redecking	SF		\$ 70.00	\$0	I tallioad bridge
	SF			\$0 \$0	
Bridge Widening					
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	190	\$ 2,300.00	\$437,000	
Sign Bridge - Cantilever	EACH	-	\$ 30,000.00	\$0	
Sign Bridge - Single Span	EACH		\$ 60,000.00	\$0	
Structure Incidentals	2,1011	% of Structures	10%	\$121,000	
Structure SubTotal				\$1,331,000	
SPECIAL CONSTRUCTION ELEMENTS	, IAUT	OU ANTITY	LINUT BRIGE		NOTES
	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Temporary Bridges	Insert		\$ -	\$0	Need temporary bridge for RR?
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			Ψ	\$0	
Construction Costs Estimate (CCE)				\$14,128,000	
				φ14,120,000	
CONTEXT SENSITIVE SOLUTIONS (CSS) CSS		% of Item CCE	5%	\$706,000	
Base Construction Costs Estimate (BCCE)				\$14,834,000	
SCOPE CHANGE ALLOWANCE ITEMS					
PROJECT SCOPE INCREASE ALLOWANCE		% of Item BCCE	240/	\$2.560,000	
		% of Helli BCCE	24%	\$3,560,000	
Estimated Const. Let Amount (ECLA)				\$18,394,000	
PROJECT DELIVERY ALLOWANCE ITEMS					
PRELIMINARY ENGINEERING		% of Item BCCE	7.2%	\$1,324,000	
FINAL ENGINEERING		% of Item BCCE	5.4%	\$993,000	
CONSTRUCTION ENGINEERING		% of Item BCCE	9.2%	\$1,692,000	
CONST CHANGE ORDERS & CLAIMS		% of Item BCCE	10.4%	\$1,913,000	
FRAFFIC MITIGATION		% of Item BCCE	1.5%	\$276,000	
PUBLIC INVOLVEMENT		% of Item BCCE	1.0%	\$184,000	
Delivery Allowance Subtotal				\$6,382,000	
EXTERNAL COSTS					NOTES
REAL ESTATE		8% of Item BCCE	\$1,187,000	\$1,187,000	
COMPENSABLE UTILITIES		3% of Item BCCE	\$445,000	\$445,000	
URISDICTIONAL TRANSFERS		II IIIII DCCD	\$0	\$0	
External Costs Subtotal			ΨΟ	\$1,632,000	
Base Project Cost Estimate				\$26,408,000	
RISK ADJUSTMENTS			00	d.C.	NOTES
Risk Item A			\$0	\$0	
Risk Item B			\$0	\$0	
Risk Item C			\$0	\$0	
Risk Adjustment Subtotal				\$0	
STIMATE UNCERTAINTY					NOTES
Incertainty Item A			\$0	\$0	
Jncertainty Item B			\$0	\$0	
Incertainty Item C			\$0	\$0	
Estimate Uncertainty Subtotal				\$0	
Numerat Vene Patel Brokent Cont Patient				¢3.6.400.000	
Current Year Total Project Cost Estimate				\$26,408,000	

Today: 9/5/19 9:21 AM

Wisco	nsin Department of 1	ransportation			Today: 9/5/19 9:21 AM
	Project I.D.		1130-31-00		
Conceptual Cost Estimate	Highway				
SUMMARY			US 41		
Version 2.0	Project Title	US 41 Expansion	(Winnebago, Outaga	mie, and Brown Co)	
	Project Limits	USH 41 & V	NIS 47/Richmond St	Interchange	
	Project Type	Urban 🔻	Topography	Moderate	
	Project Duration		Soil Type	Coarse-grain	
	,	Multi	Start		
	Current Year	2019	Construction	2048	
	Start Preliminary	2042	End Construction	2052	
Project Coope	<u>Design</u>	2043		2052	
Project Scope	Alternative #:		Planning Study		
Project Assumptions					
ITEM DESCRIPTION MAJOR ROADWAY ITEMS	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Removing Pavement	Bid Express Inst. SY	Estimator Inst.	\$ 5.00	\$9,000	
Barrier Wall	LF	-	\$ 110.00	\$0	
Curb & Gutter	LF	1,700	\$ 16.00	\$27,000	
idewalk	SF	2,976	\$ 10.00	\$30,000	
Earthwork	OV	1.500	6 10.00	615,000	
Common Marsh	CY Insert	1,500	\$ 10.00 \$ 10.00	\$15,000 \$0	
Rock	Insert		\$ 10.00	\$0 \$0	
Borrow	Insert		\$ 10.00	\$0 \$0	
EBS	Insert	-	\$ 10.00	\$0	
Y P . 1 T	EAGU		0.50,000,00	60	
Signalized Intersections Pavement	EACH		\$ 250,000.00	\$0	
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 SY	-	\$ 30.00 \$ 30.00	\$0 \$0	
Ramp Shoulders Base	े ा	<u> </u>	\$ 30.00	20	
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 Mainline Shoulders	SY SY	-	\$ 8.00 \$ 8.00	\$0 \$0	
Ramp Shoulders	SY		\$ 8.00	\$0 \$0	
Subbase					
Mainline	SY	-	\$ 12.00	\$0	
System Ramps	SY	-	\$ 12.00	\$0	
Service Ramps	SY	1.500	\$ 12.00	\$0	
Cross Road Frontage Roads	SY SY	1,500		\$15,000	
Local Ponds	SY		\$ 10.00 \$ 10.00	\$0 \$0	
Mainline Shoulders	SY		\$ 12.00	\$0	
Ramp Shoulders	SY	_	\$ 12.00	\$0	
Major Roadway Subtotal (M	(RS)			\$168,000	
				\$105,000	
ALLOWANCE ITEMS					
Certainty Factor					
DRAINAGE		% of MRS	11.41%	\$19,000	
EROSION CONTROL & RESTORATION		% of MRS	9.25%	\$16,000 \$2,000	
LIGHTING ROADWAY INCIDENTALS		% of MRS % of MRS	1.41% 28.85%	\$2,000 \$48,000	
SIGNING/MARKING		% of MRS	3.03%	\$5,000	
FRAFFIC CONTROL & STAGING		% of MRS	4.81%	\$8,000	
				,	
TS/ FTMS		% of MRS	1.00%	\$2,000	

OTRICATION (OTRICATION ()					
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	I
Construction Costs Estimate (CCE)				\$3,645,000	
CONTEXT SENSITIVE SOLUTIONS (CSS)					I
CSS		% of Item CCE	5%	\$182,000	
Base Construction Costs Estimate (BCCE)		, v vtem CCL	2,0	\$3,827,000	
Dase Construction Costs Estimate (BCCE)				\$3,027,000	1
SCOPE CHANGE ALLOWANCE ITEMS					
PROJECT SCOPE INCREASE ALLOWANCE		% of Item BCCE	24%	\$918,000	i
Estimated Const. Let Amount (ECLA)		70 OF Item DCCE	2470	\$4,745,000	
Estimated Const. Let Amount (ECLA)				ψ4,743,000	
PROJECT DELIVERY ALLOWANCE ITEMS					Ī
PRELIMINARY ENGINEERING		% of Item BCCE	7.2%	\$342,000	
FINAL ENGINEERING		% of Item BCCE % of Item BCCE	5.4% 9.2%	\$256,000	
CONSTRUCTION ENGINEERING				\$437,000	
		% of Item BCCE	10.4%	\$493,000	
TRAFFIC MITIGATION		% of Item BCCE % of Item BCCE	10.4% 1.5%	\$493,000 \$71,000	
TRAFFIC MITIGATION PUBLIC INVOLVEMENT		% of Item BCCE	10.4%	\$493,000 \$71,000 \$47,000	
TRAFFIC MITIGATION		% of Item BCCE % of Item BCCE	10.4% 1.5%	\$493,000 \$71,000	
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal		% of Item BCCE % of Item BCCE	10.4% 1.5%	\$493,000 \$71,000 \$47,000	NOTES
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS		% of Item BCCE % of Item BCCE % of Item BCCE	10.4% 1.5%	\$493,000 \$71,000 \$47,000	NOTES
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE	10.4% 1.5% 1.0%	\$493,000 \$71,000 \$47,000 \$1,646,000	NOTES
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE	10.4% 1.5% 1.0%	\$493,000 \$71,000 \$47,000 \$1,646,000	NOTES
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE	10.4% 1.5% 1.0%	\$493,000 \$71,000 \$47,000 \$1,646,000 \$306,000 \$115,000 \$0	NOTES
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE	10.4% 1.5% 1.0% \$ 306,000.00 \$ 115,000.00 \$ -	\$493,000 \$71,000 \$47,000 \$1,646,000 \$306,000 \$115,000 \$0 \$0	NOTES
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE	10.4% 1.5% 1.0% \$ 306,000.00 \$ 115,000.00 \$ -	\$493,000 \$71,000 \$47,000 \$1,646,000 \$306,000 \$115,000 \$0 \$0	NOTES
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE	\$ 306,000.00 \$ 115,000.00 \$ - \$ - \$ - \$ -	\$493,000 \$71,000 \$47,000 \$1,646,000 \$306,000 \$115,000 \$0 \$0 \$0 \$0	NOTES
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE	\$ 306,000.00 \$ 115,000.00 \$ - \$ - \$ - \$ - \$ - \$ -	\$493,000 \$71,000 \$47,000 \$1,646,000 \$306,000 \$115,000 \$0 \$0 \$0 \$0 \$0	NOTES
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE	\$ 306,000.00 \$ 115,000.00 \$ - \$ - \$ - \$ -	\$493,000 \$71,000 \$47,000 \$1,646,000 \$306,000 \$115,000 \$0 \$0 \$0 \$0	NOTES
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other Other External Costs Subtotal		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE	\$ 306,000.00 \$ 115,000.00 \$ - \$ - \$ - \$ - \$ - \$ -	\$493,000 \$71,000 \$47,000 \$1,646,000 \$306,000 \$115,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$10 \$10 \$10 \$10	NOTES
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other Other		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE	\$ 306,000.00 \$ 115,000.00 \$ - \$ - \$ - \$ - \$ - \$ -	\$493,000 \$71,000 \$47,000 \$1,646,000 \$306,000 \$115,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other External Costs Subtotal Base Project Cost Estimate		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE	\$ 306,000.00 \$ 115,000.00 \$ - \$ - \$ - \$ - \$ - \$ -	\$493,000 \$71,000 \$47,000 \$1,646,000 \$306,000 \$115,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$10 \$10 \$10 \$10	NOTES
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other External Costs Subtotal Base Project Cost Estimate		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE 8% of Item BCCE 3% of Item BCCE	\$ 306,000.00 \$ 115,000.00 \$ - \$ - \$ - \$ - \$ - \$ -	\$493,000 \$71,000 \$47,000 \$1,646,000 \$306,000 \$115,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$10 \$10 \$10 \$10	
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other Other External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE 3% of Item BCCE 3% of Item BCCE	10.4% 1.5% 1.0% \$ 306,000.00 \$ 115,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$493,000 \$71,000 \$47,000 \$1,646,000 \$1,646,000 \$115,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$10,000	
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other Other Other Risk ADJUSTMENTS Risk Item A Risk Item B		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE 3% of Item BCCE 3% of Item BCCE	10.4% 1.5% 1.0% \$ 306,000.00 \$ 115,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$493,000 \$71,000 \$47,000 \$1,646,000 \$306,000 \$115,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other Other Other Other Risk ADJUSTMENTS Risk Item A Risk Item B		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE 3% of Item BCCE 3% of Item BCCE	10.4% 1.5% 1.0% \$ 306,000.00 \$ 115,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$493,000 \$71,000 \$47,000 \$1,646,000 \$1,646,000 \$115,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B Risk Item C Risk Adjustment Subtotal		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE 3% of Item BCCE 3% of Item BCCE	10.4% 1.5% 1.0% \$ 306,000.00 \$ 115,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$493,000 \$71,000 \$47,000 \$1,646,000 \$1,646,000 \$115,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B Risk Item C Risk Adjustment Subtotal		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE 3% of Item BCCE 3% of Item BCCE	10.4% 1.5% 1.0% \$ 306,000.00 \$ 115,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$493,000 \$71,000 \$47,000 \$1,646,000 \$1,646,000 \$115,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other Other ABase Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B Risk Item C Risk Adjustment Subtotal ESTIMATE UNCERTAINTY Uncertainty Item A		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE 3% of Item BCCE 3% of Item BCCE	10.4% 1.5% 1.0% \$ 306,000.00 \$ 115,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$493,000 \$71,000 \$47,000 \$1,646,000 \$1,646,000 \$115,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B Risk Item C Risk Adjustment Subtotal ESTIMATE UNCERTAINTY Uncertainty Item A Uncertainty Item A		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE 3% of Item BCCE 3% of Item BCCE	10.4% 1.5% 1.0% \$ 306,000.00 \$ 115,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$493,000 \$71,000 \$47,000 \$1,646,000 \$1,646,000 \$115,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B Risk Item C Risk Adjustment Subtotal ESTIMATE UNCERTAINTY Uncertainty Item A Uncertainty Item B Uncertainty Item B Uncertainty Item C		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE 3% of Item BCCE 3% of Item BCCE	10.4% 1.5% 1.0% \$ 306,000.00 \$ 115,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$493,000 \$71,000 \$47,000 \$1,646,000 \$1,646,000 \$115,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other Other External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B Risk Item C Risk Adjustment Subtotal ESTIMATE UNCERTAINTY Uncertainty Item A Uncertainty Item B		% of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE 3% of Item BCCE 3% of Item BCCE	10.4% 1.5% 1.0% \$ 306,000.00 \$ 115,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$493,000 \$71,000 \$47,000 \$1,646,000 \$1,646,000 \$115,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES

Wisconsin Department of Transportation Today: 8/20/19 9:38 AM Project I.D. 1130-31-00 **Conceptual Cost Estimate** Highway US 41 **SUMMARY Project Title** US 41 Expansion (Winnebago, Outagamie, and Brown Co) Version 2.0 **Project Limits** USH 41 & WIS 15/Northland Ave Interchange **Project Type Topography Project Duration** Soil Type Multi Start **Current Year** 2019 Construction 2048 **Start Preliminary End Construction** 2043 2052 Design **Project Scope** Alternative #: Planning Study ITEM DESCRIPTION QUANTITY UNIT PRICE UNIT Total **NOTES** MAJOR ROADWAY ITEMS Removing Pavement SY 131,000 5.00 \$655,000 Barrier Wall LF 110.00 Curb & Gutter LF 62,000 16.00 \$992,000 Earthwork CY 10.00 \$1.661.000 Common 166,100 Marsh Insert 10.00 \$0 Rock Insert 10.00 \$0 Borrow 10.00 \$0 Insert \$0 EBS 10.00 Insert Signalized Intersections EACH 5 \$ 250,000.00 \$1,250,000 Includes Bluemound/Glenpark Pavement Mainline SY 45.00 \$0 System Ramps SY \$0 45.00 Service Ramps 18,000 45.00 \$810,000 SY SY 95,200 40.00 \$3,808,000 Cross Road Frontage Roads SY 4,100 40.00 \$164,000 Local Roads SY 50,300 30.00 \$1,509,000 Assumed 5" depth Mainline Shoulders SY 30.00 \$0 Ramp Shoulders 7,500 30.00 \$225,000 Assumed 5" depth SY Mainline SY \$ 8.00 \$0 System Ramps SY 8.00 \$0 Service Ramps SY 18,000 8.00 \$144,000 \$762,000 Cross Road SY 95,200 8.00 SY \$33,000 Frontage Roads 4 100 8.00 \$402,000 Local Roads SY 50,300 8.00 Mainline Shoulders SY 8.00 \$0 7,500 \$60,000 Ramp Shoulders SY 8.00 Subbase Mainline SY 12.00 \$0 System Ramps SY 12.00 Service Ramps SY 18,000 12.00 \$216,000 Cross Road SY \$952,000 95.200 10.00 Frontage Roads SY 4,100 10.00 \$41,000 Local Roads SY 50,300 10.00 \$503,000 Mainline Shoulders SY 12.00 \$0 Ramp Shoulders SY 7,500 12.00 \$90,000 Major Roadway Subtotal (MRS) \$14,277,000 **ALLOWANCE ITEMS Certainty Factor** DRAINAGE % of MRS 11.41% \$1.630.000 EROSION CONTROL & RESTORATION 9.25% % of MRS \$1,321,000 LIGHTING % of MRS 1.41% \$202,000 ROADWAY INCIDENTALS % of MRS 28.85% \$4,119,000 SIGNING/MARKING % of MRS 3.03% \$432,000

% of MRS

% of MRS

4.81%

1.00%

\$687,000

\$143,000

\$8,534,000

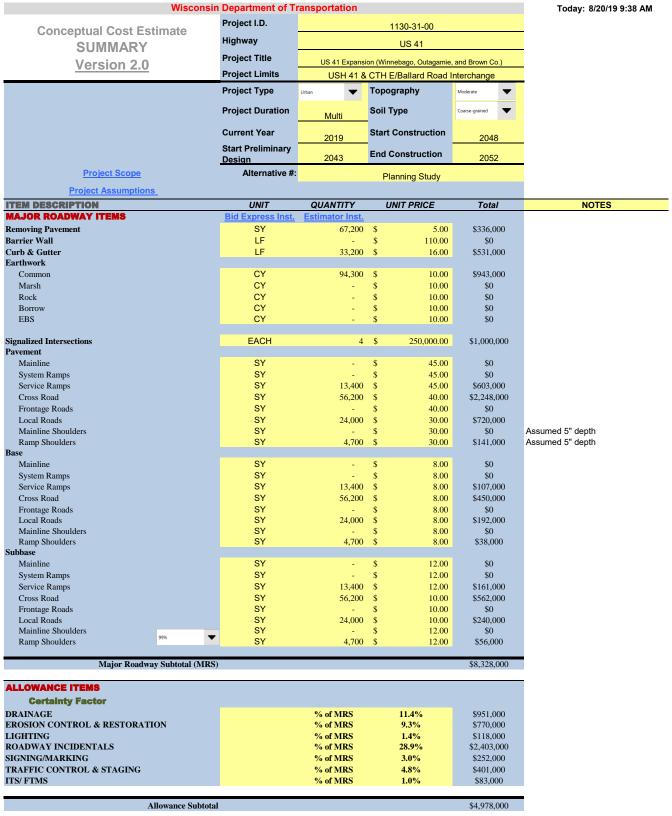
TRAFFIC CONTROL & STAGING

Allowance Subtotal

ITS/ FTMS

STRUCTURES (see STRUCTURE tab)	UNIT	OUANTITY	LINIT DOLOT	Total	NOTES
Bridge Removal	EACH	QUANTITY 2	UNIT PRICE \$ 65,000.00	\$130,000	NOTES
New Bridge (Single Level Interchange)	SF		\$ 120.00	\$4,044,000	
Bridge Redecking	SF	33,700	\$ 70.00	\$4,044,000	
Bridge Widening	SF		\$ 140.00	\$0 \$0	
New Retaining Wall	SF		\$ 70.00	\$0 \$0	
Noise Wall Removal	EACH	_	\$ 75,000.00	\$0	
New Noise Walls	SF	_	\$ 50.00	\$0	
New Box Culvert/Extension	LF	185	\$ 2,300.00	\$426,000	
Sign Bridge - Cantilever	EACH	-	\$ 30,000.00	\$0	
Sign Bridge - Single Span	EACH		\$ 60,000.00	\$0	
Structure Incidentals	27.0	% of Structures	10%	\$460,000	
		,, ,, ,,	2077	7 100,000	
Structure SubTotal				\$5,060,000	
PECIAL 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 \$0	
Other	Insert	1	\$ 5,000,000.00	\$5,000,000	Traffic mitigation at Casaloma
Other	Insert	1	\$ 5,000,000.00	\$5,000,000	. ramo magation at Oasaloma
Other	Insert		\$ -	\$0 \$0	
Other	Insert	-	\$ -	\$0 \$0	
2.113	moort			Ψ0	
Special Construction Elements Subtotal				\$5,000,000	
Construction Costs Estimate (CCE)				\$32,871,000	
CONTEXT SENSITIVE SOLUTIONS (CSS)					
SS		% of Item CCE	5%	\$1,644,000	
		70 OF THEM CCE	370		
Base Construction Costs Estimate (BCCE)				\$34,515,000	
SCOPE CHANGE ALLOWANCE ITEMS					
PROJECT SCOPE INCREASE ALLOWANCE		% of Item BCCE	24%	\$8,284,000	
Estimated Const. Let Amount (ECLA)				\$42,799,000	
PROJECT DELIVERY ALLOWANCE ITEMS					
DELIMINADA ENGREEPING		0/ 67:	F 20.	40.000.00	
		% of Item BCCE	7.2%	\$3,082,000	
INAL ENGINEERING		% of Item BCCE	5.4%	\$2,311,000	
INAL ENGINEERING ONSTRUCTION ENGINEERING		% of Item BCCE % of Item BCCE	5.4% 9.2%	\$2,311,000 \$3,938,000	
INAL ENGINEERING ONSTRUCTION ENGINEERING		% of Item BCCE	5.4%	\$2,311,000	
INAL ENGINEERING ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION		% of Item BCCE % of Item BCCE % of Item BCCE % of Item BCCE	5.4% 9.2% 10.4% 1.5%	\$2,311,000 \$3,938,000 \$4,451,000 \$642,000	
NAL ENGINEERING ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT		% of Item BCCE % of Item BCCE % of Item BCCE	5.4% 9.2% 10.4%	\$2,311,000 \$3,938,000 \$4,451,000 \$642,000 \$428,000	
INAL ENGINEERING ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION		% of Item BCCE % of Item BCCE % of Item BCCE % of Item BCCE	5.4% 9.2% 10.4% 1.5%	\$2,311,000 \$3,938,000 \$4,451,000 \$642,000	
INAL ENGINEERING ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal		% of Item BCCE	5.4% 9.2% 10.4% 1.5% 1.0%	\$2,311,000 \$3,938,000 \$4,451,000 \$642,000 \$428,000 \$14,852,000	NOTES
INAL ENGINEERING ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal XTERNAL COSTS EAL ESTATE		% of Item BCCE 8% of Item BCCE	5.4% 9.2% 10.4% 1.5% 1.0%	\$2,311,000 \$3,938,000 \$4,451,000 \$642,000 \$428,000 \$14,852,000	NOTES
INAL ENGINEERING ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS EAL ESTATE OMPENSABLE UTILITIES		% of Item BCCE 8% of Item BCCE	5.4% 9.2% 10.4% 1.5% 1.0% \$ 2,761,000.00 \$ 1,035,000.00	\$2,311,000 \$3,938,000 \$4,451,000 \$642,000 \$428,000 \$14,852,000 \$2,761,000 \$1,035,000	NOTES
INAL ENGINEERING ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal XTERNAL COSTS EAL ESTATE OMPENSABLE UTILITIES		% of Item BCCE 8% of Item BCCE	5.4% 9.2% 10.4% 1.5% 1.0%	\$2,311,000 \$3,938,000 \$4,451,000 \$642,000 \$428,000 \$14,852,000	NOTES
INAL ENGINEERING ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS		% of Item BCCE 8% of Item BCCE	5.4% 9.2% 10.4% 1.5% 1.0% \$ 2,761,000.00 \$ 1,035,000.00	\$2,311,000 \$3,938,000 \$4,451,000 \$642,000 \$428,000 \$14,852,000 \$2,761,000 \$1,035,000	NOTES
INAL ENGINEERING ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal XTERNAL COSTS EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther		% of Item BCCE 8% of Item BCCE	5.4% 9.2% 10.4% 1.5% 1.0% \$ 2,761,000.00 \$ 1,035,000.00 \$ -	\$2,311,000 \$3,938,000 \$4,451,000 \$642,000 \$428,000 \$14,852,000 \$2,761,000 \$1,035,000 \$0	NOTES
INAL ENGINEERING ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal XTERNAL COSTS EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther		% of Item BCCE 8% of Item BCCE	5.4% 9.2% 10.4% 1.5% 1.0% \$ 2,761,000.00 \$ 1,035,000.00 \$ - \$ -	\$2,311,000 \$3,938,000 \$4,451,000 \$428,000 \$14,852,000 \$1,035,000 \$0 \$0	NOTES
INAL ENGINEERING ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal XTERNAL COSTS EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther		% of Item BCCE 8% of Item BCCE	\$.4% 9.2% 10.4% 1.5% 1.0% \$ 2,761,000.00 \$ 1,035,000.00 \$ - \$ - \$ - \$ -	\$2,311,000 \$3,938,000 \$4,451,000 \$42,000 \$428,000 \$14,852,000 \$1,035,000 \$0 \$0 \$0 \$0	NOTES
INAL ENGINEERING ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal XTERNAL COSTS EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther		% of Item BCCE 8% of Item BCCE	5.4% 9.2% 10.4% 1.5% 1.0% \$ 2,761,000.00 \$ 1,035,000.00 \$ - \$ - \$ -	\$2,311,000 \$3,938,000 \$4,451,000 \$42,000 \$428,000 \$14,852,000 \$1,035,000 \$0 \$0 \$0	NOTES
CONSTRUCTION ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS PRAFFIC MITIGATION DUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES URISDICTIONAL TRANSFERS Other Other Other Other Other Other		% of Item BCCE 8% of Item BCCE	\$.4% 9.2% 10.4% 1.5% 1.0% \$ 2,761,000.00 \$ 1,035,000.00 \$ - \$ - \$ - \$ - \$ - \$ -	\$2,311,000 \$3,938,000 \$4,451,000 \$642,000 \$428,000 \$14,852,000 \$1,035,000 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
INAL ENGINEERING ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal XTERNAL COSTS EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther ther ther ther		% of Item BCCE 8% of Item BCCE	\$.4% 9.2% 10.4% 1.5% 1.0% \$ 2,761,000.00 \$ 1,035,000.00 \$ - \$ - \$ - \$ - \$ - \$ -	\$2,311,000 \$3,938,000 \$4,451,000 \$428,000 \$14,852,000 \$1,035,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
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INAL ENGINEERING ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS other		% of Item BCCE 8% of Item BCCE	5.4% 9.2% 10.4% 1.5% 1.0% \$ 2,761,000.00 \$ 1,035,000.00 \$ - \$ - \$ - \$ - \$ - \$ -	\$2,311,000 \$3,938,000 \$4,451,000 \$42,000 \$428,000 \$14,852,000 \$1,035,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,035,000 \$0 \$0 \$0 \$1,035,000 \$1,0	NOTES
INAL ENGINEERING ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal XTERNAL COSTS EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther ther ther ther ther ther		% of Item BCCE 8% of Item BCCE	\$ 2,761,000.00 \$ 2,761,000.00 \$ 1,035,000.00 \$ - \$ - \$ - \$ - \$ - \$ -	\$2,311,000 \$3,938,000 \$4,451,000 \$642,000 \$428,000 \$14,852,000 \$1,035,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,047,000	
INAL ENGINEERING ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal XTERNAL COSTS EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther ther ther ther ther ther		% of Item BCCE 8% of Item BCCE	\$ 2,761,000.00 \$ 2,761,000.00 \$ 1,035,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$2,311,000 \$3,938,000 \$4,451,000 \$428,000 \$14,852,000 \$1,035,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,035,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
INAL ENGINEERING ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS Other Other Other Other Other Sternal Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Lisk Item A Lisk Item B Lisk Item C		% of Item BCCE 8% of Item BCCE	\$ 2,761,000.00 \$ 2,761,000.00 \$ 1,035,000.00 \$ - \$ - \$ - \$ - \$ - \$ -	\$2,311,000 \$3,938,000 \$4,451,000 \$428,000 \$14,852,000 \$1,035,000 \$0 \$0 \$0 \$0 \$0 \$0 \$1,035,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,447,000	
INAL ENGINEERING ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS other other other other External Costs Subtotal Base Project Cost Estimate EISK ADJUSTMENTS lisk Item A lisk Item B lisk Item C Risk Adjustment Subtotal		% of Item BCCE 8% of Item BCCE	\$ 2,761,000.00 \$ 2,761,000.00 \$ 1,035,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$2,311,000 \$3,938,000 \$4,451,000 \$428,000 \$14,852,000 \$1,035,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,035,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES URISDICTIONAL TRANSFERS Other Other Other Other Other External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B Risk Item C Risk Adjustment Subtotal		% of Item BCCE 8% of Item BCCE	5.4% 9.2% 10.4% 1.5% 1.0% \$ 2,761,000.00 \$ 1,035,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$2,311,000 \$3,938,000 \$4,451,000 \$42,000 \$428,000 \$14,852,000 \$1,035,000 \$0 \$0 \$0 \$0 \$0 \$0 \$3,796,000 \$61,447,000	
INAL ENGINEERING ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal XTERNAL COSTS EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther ther ther ther ther ther		% of Item BCCE 8% of Item BCCE	\$ 2,761,000.00 \$ 1,035,000.00 \$ 1,035,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$2,311,000 \$3,938,000 \$4,451,000 \$428,000 \$14,852,000 \$14,852,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
INAL ENGINEERING ONSTRUCTION ENGINEERING ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal XTERNAL COSTS EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther ther ther ther ther ther		% of Item BCCE 8% of Item BCCE	\$ 2,761,000.00 \$ 2,761,000.00 \$ 1,035,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$2,311,000 \$3,938,000 \$4,451,000 \$428,000 \$14,852,000 \$1,035,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
NAL ENGINEERING ONSTRUCTION ON THE PROPERTY OF THE PRO		% of Item BCCE 8% of Item BCCE	\$ 2,761,000.00 \$ 1,035,000.00 \$ 1,035,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$2,311,000 \$3,938,000 \$4,451,000 \$428,000 \$14,852,000 \$1,035,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
NAL ENGINEERING DNSTRUCTION ENGINEERING DNST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION BELIC INVOLVEMENT Delivery Allowance Subtotal KTERNAL COSTS EAL ESTATE DMPENSABLE UTILITIES RISDICTIONAL TRANSFERS her her her her External Costs Subtotal Base Project Cost Estimate SK ADJUSTMENTS sk Item A sk Item B sk Item C Risk Adjustment Subtotal BTIMATE UNCERTAINTY INCERTAINTY I		% of Item BCCE 8% of Item BCCE	\$ 2,761,000.00 \$ 2,761,000.00 \$ 1,035,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$2,311,000 \$3,938,000 \$4,451,000 \$428,000 \$14,852,000 \$1,035,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
NAL ENGINEERING DISTRUCTION ENGINEERING DISTRUCTION ENGINEERING DISTRUCTION ENGINEERING DISTRUCTION ENGINEERING DISTRUCTION ENGINEERING DISTRUCTION ENGINEERING Delivery Allowance Subtotal TERNAL COSTS DAL ESTATE DOMPENSABLE UTILITIES RISDICTIONAL TRANSFERS THE TRANSF		% of Item BCCE 8% of Item BCCE	\$ 2,761,000.00 \$ 2,761,000.00 \$ 1,035,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$2,311,000 \$3,938,000 \$4,451,000 \$428,000 \$14,852,000 \$1,035,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES

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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		\$ 120.00	\$4,548,000	
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	\$368,000	
Sign Bridge - Cantilever	EACH		\$ 30,000.00	\$0	
Sign Bridge - Single Span	EACH		\$ 60,000.00	\$0	
Structure Incidentals		% of Structures	10%	\$498,000	
Structure SubTotal				\$5,479,000	
Structure Sub rotai				\$3,479,000	
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		\$ -	\$0	
Other	Insert	-	\$ -	\$0	
Other	Insert	-	\$ -	\$0	
Other	Insert	-	\$ -	\$0	
Special Construction Elements Subtotal				\$0	l
Construction Costs Estimate (CCE)				\$18,785,000	
CONTEXT SENSITIVE SOLUTIONS (CSS)		0/ 01/ 007	50 ′	фодо сее	
CSS		% of Item CCE	5%	\$939,000	
Base Construction Costs Estimate (BCCE)				\$19,724,000	l
SCOPE CHANGE ALLOWANCE ITEMS					
PROJECT SCOPE INCREASE ALLOWANCE		% of Item BCCE	24%	\$4,734,000	
Estimated Const. Let Amount (ECLA)		70 OF IGHT DCCE	4T/0	\$24,458,000	
Estillated Collst. Let Alliquit (ECLA)				Ψ Δ1/13 0/000	•
PROJECT DELIVERY ALLOWANCE ITEMS					Ī
PRELIMINARY ENGINEERING		% of Item BCCE	7.2%	\$1,761,000	
FINAL ENGINEERING		% of Item BCCE	5.4%	\$1,321,000	
CONSTRUCTION ENGINEERING		% of Item BCCE	9.2%	\$2,250,000	
CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS		% of Item BCCE	10.4%	\$2,544,000	
TRAFFIC MITIGATION PUBLIC INVOLVEMENT		% of Item BCCE % of Item BCCE	1.5% 1.0%	\$367,000 \$245,000	
Delivery Allowance Subtotal		70 OF ITEM BUCE	1.0 %	\$8,488,000	
·				ψο, του, σου	
EXTERNAL COSTS					NOTES
REAL ESTATE		8% of Item BCCE	,,	\$1,578,000	
COMPENSABLE UTILITIES		3% of Item BCCE	,	\$592,000	
JURISDICTIONAL TRANSFERS			\$ -	\$0	
Other			\$ -	\$0	
Other			\$ -	\$0	
Other			\$ -	\$0	
Other			\$ -	\$0	
Other			\$ -	\$0	
External Costs Subtotal				\$2,170,000	
Base Project Cost Estimate				\$35,116,000	
RISK ADJUSTMENTS			0	40	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				\$35,116,000	

Wisconsin Department of Transportation Today: 8/20/19 9:39 AM Project I.D. 1130-31-00 **Conceptual Cost Estimate** Highway US 41 **SUMMARY Project Title** Version 2.0 **Project Limits** USH 41 & CTH N Interchange Project Type Topography **Project Duration** Soil Type Multi **Current Year** Start Construction 2019 2048 Start Preliminary **End Construction** 2043 2052 Design Alternative #: **Project Scope** Planning Study **Project Assumptions** ITEM DESCRIPTION
MAJOR ROADWAY ITE QUANTITY UNIT PRICE NOTES UNIT Total Removing Pavement \$197,000 SY 39,300 5.00 Barrier Wall LF 110.00 Curb & Gutter 25,400 16.00 \$406,000 Earthwork CY 10.00 \$391,000 Common 39,111 \$ 10.00 Marsh Insert \$0 \$0 10.00 Rock Insert 10.00 Borrow EBS Insert 10.00 \$0 Signalized Intersections EACH 250,000.00 \$750,000 Mainline SY 45.00 \$0 System Ramps SY 45.00 \$0 SY 7,111 45.00 \$320,000 Service Ramps 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 SY 30.00 Assumed 5" depth Ramp Shoulders 2,400 \$72,000 Mainline SY 8.00 \$0 System Ramps SY 8.00 \$0 \$89,000 Service Ramps SY 11.149 8.00 Cross Road SY \$257,000 32,153 8.00 Frontage Roads 8.00 Local Roads SY 8.00 \$0 SY Mainline Shoulders 8.00 \$0 Ramp Shoulders \$0 Basecourse for ramp shoulders is grouped in with line 37 8.00 SY Mainline 12.00 \$0 SY System Ramps 12.00 \$0 SY 11,149 12.00 \$134,000 Service Ramps SY \$322,000 Cross Road 32,153 10.00 Frontage Roads SY SY 10.00 \$0 \$0 Local Roads 10.00 Mainline Shoulders 12.00 \$0 Ramp Shoulders 12.00 \$0 Subbase for ramp shoulders is grouped in with line 46 Major Roadway Subtotal (MRS) \$4,122,000 **ALLOWANCE ITEM Certainty Factor** DRAINAGE % of MRS 11.4% \$470,000 EROSION CONTROL & RESTORATION % of MRS 9.3% \$381,000 1.4% \$58,000 LIGHTING % of MRS 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) NOTES Total Bridge Removal EACH New Bridge (Single Level Interchange) 2.700 \$324,000 SF 120.00 Bridge Redecking SF 70.00 \$1,582,000 22,600 Bridge Widening 140.00 New Retaining Wall SF 70.00 \$0 Noise Wall Removal FACH 75,000.00 \$0 New Noise Walls SF \$0 50.00 New Box Culvert/Extension 2,300.00 \$0 Sign Bridge - Cantilever EACH 30.000.00 \$0 Sign Bridge - Single Span Structure Incidentals EACH 60,000.00 \$0 % of Structures \$191,000

\$2,097,000

Structure SubTotal

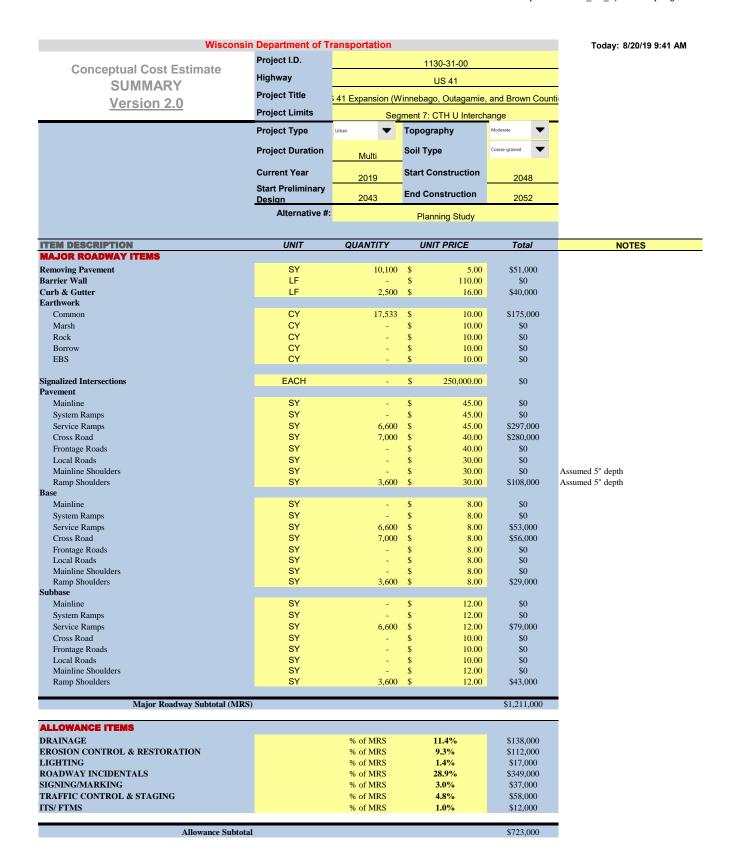
SPECIAL CONSTRUCTION ELEMENTS	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Temporary Bridges	Insert		-	\$0	
Temporary Roadways	Insert	- :	-	\$0	
Environment Mitigation	Insert	- :	-	\$0	
Community Sensitive Design	Insert	- :	-	\$0	
Hazardous Materials	Insert	- :	-	\$0	
Bypass / Alternate Routes	Insert	- :		\$0	
Other	Insert		1,000,000.00	\$1,000,000	For traffic circulation mitigation on I
Other	Insert	- :	-	\$0	
Other	Insert	- :	-	\$0	
Other	Insert	- 1	-	\$0	
Special Construction Elements Subtotal				\$1,000,000	
Construction Costs Estimate (CCE)				\$9,681,000	
CONTEXT SENSITIVE SOLUTIONS (CSS)		av ev con	70 /	#404.000	
CSS		% of Item CCE	5%	\$484,000	
Base Construction Costs Estimate (BCCE)				\$10,165,000	
SCOPE CHANGE ALLOWANCE ITEMS PROJECT SCOPE INCREASE ALLOWANCE		0/ of Hom DCCE	249/	\$2.440.000	
		% 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		70 01 Item 2002	110 / 0	\$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	
JURISDICTIONAL TRANSFERS				\$0	
Other				\$0	
Other				\$0	
Other				\$0	
Other				\$0 \$0	
Other				\$0 \$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	
Pullent rear rotal Project Cost Estimate				\$18,098,000	

Wisconsin Department of Transportation						
	Project I.D.	1130-31-00				
Conceptual Cost Estimate	Highway		US 41			
SUMMARY	Project Title	41 Expansion (W	/innebago, Outagamie,	and Brown Counti		
Version 2.0	Project Limits		gment 7: CTH J Interch			
	Project Type	Urban	Topography	Moderate $lacksquare$		
				Coarse-grained		
	Project Duration	Multi	Soil Type	Coarse-grained •		
	Current Year	2019	Start Construction	2048		
	Start Preliminary <u>Design</u>	2043	End Construction	2052		
	Alternative #:		Diagning Study	2002		
			Planning Study			
ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	Total		
MAJOR ROADWAY ITEMS						
Removing Pavement	SY	4,950	\$ 5.00	\$25,000		
Barrier Wall	LF	-	\$ 110.00	\$0		
Curb & Gutter	LF	2,698	\$ 16.00	\$43,000		
Sidewalk	SF	2,590	\$ 10.00	\$26,000		
Earthwork						
Common	CY	11,362	\$ 10.00	\$114,000		
Marsh	CY	-	\$ 10.00	\$0		
Rock	CY	-	\$ 10.00	\$0		
Borrow EBS	CY CY	-	\$ 10.00 \$ 10.00	\$0 \$0		
EBS	Ci	-	\$ 10.00	ΦU		
Signalized Intersections	EACH	-	\$ 250,000.00	\$0		
Pavement						
Mainline	SY	-	\$ 45.00	\$0		
System Ramps	SY	-	\$ 45.00	\$0		
Service Ramps	SY	5,925	\$ 45.00	\$267,000		
Cross Road	SY	2,738	\$ 40.00	\$110,000		
Frontage Roads	SY	-	\$ 40.00	\$0		
Local Roads Mainline Shoulders	SY SY	300	\$ 30.00 \$ 30.00	\$9,000 \$0		
Ramp Shoulders	SY	2,400		\$72,000		
Base	O1	2,400	Ψ 30.00	Ψ12,000		
Mainline	SY	-	\$ 8.00	\$0		
System Ramps	SY	-	\$ 8.00	\$0		
Service Ramps	SY	5,925	\$ 8.00	\$47,000		
Cross Road	SY	2,738	\$ 8.00	\$22,000		
Frontage Roads	SY	-	\$ 8.00	\$0		
Local Roads	Insert	300	\$ 8.00	\$2,000		
Mainline Shoulders Ramp Shoulders	SY SY	2,400	\$ 8.00 \$ 8.00	\$0 \$19,000		
Subbase	01	2,400	φ 6.00	Ψ19,000		
Mainline	SY	-	\$ 12.00	\$0		
System Ramps	SY	-	\$ 12.00	\$0		
Service Ramps	SY	5,925	\$ 12.00	\$71,000		
Cross Road	SY	2,738	\$ 10.00	\$27,000		
Frontage Roads	SY	-	\$ 10.00	\$0		
Local Roads	Insert	300	\$ 10.00	\$3,000		
Mainline Shoulders	SY	2 400	\$ 12.00	\$0 \$20,000		
Ramp Shoulders	SY	2,400	\$ 12.00	\$29,000		
Major Roadway Subtotal (MRS)				\$886,000		

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ALLOWANCE ITEMS				
DRAINAGE		% of MRS	11.4%	\$101,000
EROSION CONTROL & RESTORATION		% of MRS	9.3%	\$82,000
LIGHTING		% of MRS	1.4%	\$13,000
ROADWAY INCIDENTALS		% of MRS	28.9%	\$256,000
SIGNING/MARKING		% of MRS	3.0%	\$27,000
TRAFFIC CONTROL & STAGING		% of MRS	4.8%	\$43,000
ITS/ FTMS		% of MRS	1.0%	\$9,000
Allowance Subtotal				\$531,000
STRUCTURES	UNIT	QUANTITY	UNIT PRICE	Total
Bridge Removal	EACH	1 \$		\$65,000
New Bridge (Single Level Interchange)	SF	13,734 \$		\$1,648,000
Bridge Redecking	SF	- \$		\$0
Bridge Widening	SF	- \$		\$0
New Retaining Wall	SF	- \$		\$0
Noise Wall Removal	EACH	- \$		\$0
New Noise Walls	SF	- \$		\$0
New Box Culvert/Extension	LF	- \$		\$0
Sign Bridge - Cantilever	EACH	- \$		\$0
Sign Bridge - Single Span	EACH	- \$,	\$0
Structure Incidentals		% of Structures	10%	\$171,000
Structure SubTotal				\$1,884,000
SPECIAL CONSTRUCTION ELEMENTS	UNIT	QUANTITY	UNIT PRICE	Total
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)				\$3,301,000
CONTEXT SENSITIVE SOLUTIONS (CSS)				
CSS		% of Item CCE	5%	\$165,000
Base Construction Costs Estimate (BCCE)				\$3,466,000
SCOPE CHANGE ALLOWANCE ITEMS				
PROJECT SCOPE INCREASE ALLOWANCE		% of Item BCCE	24%	\$832,000
Estimated Const. Let Amount (ECLA)				\$4,298,000
PROJECT DELIVERY ALLOWANCE ITEMS				
PRELIMINARY ENGINEERING		% of Item BCCE	7.2%	\$309,000
FINAL ENGINEERING		% of Item BCCE	5.4%	\$232,000
CONSTRUCTION ENGINEERING		% of Item BCCE	9.2%	\$395,000
CONST CHANGE ORDERS & CLAIMS		% of Item BCCE	10.4%	\$447,000
FRAFFIC MITIGATION		% of Item BCCE	1.5%	\$64,000
PUBLIC INVOLVEMENT		% of Item BCCE	1.0%	\$43,000
Delivery Allowance Subtotal				\$1,490,000
EXTERNAL COSTS		20/ of Law DOCE	¢277.000	\$255 000
REAL ESTATE		8% of Item BCCE	\$277,000	\$277,000
COMPENSABLE UTILITIES		3% of Item BCCE	\$104,000	\$104,000
JURISDICTIONAL TRANSFERS			\$0	\$0
External Costs Subtotal				\$381,000
Base Project Cost Estimate				\$6,169,000

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STRUCTURES	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 SubTota				\$0	Ī
SPECIAL CONSTRUCTION ELEMENTS	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Temporary Bridges	Insert	-	\$ -	\$0	
Temporary Roadways	Insert	_	\$ -	\$0 \$0	
Environment Mitigation	Insert	_	\$ -	\$0 \$0	
Community Sensitive Design	Insert	_	\$ -	\$0	
Hazardous Materials	Insert	_	\$ -	\$0	
Bypass / Alternate Routes	Insert	-	\$ -	\$0	
Special Construction Elements Subtota	1			\$0	Ī
Construction Costs Estimate (CCE)				\$1,934,000	
CONTEXT SENSITIVE SOLUTIONS (CSS)				40=000	
CSS Production Grant Estimate (DCGP)		% of Item CCE	5%	\$97,000 \$2,031,000	
Base Construction Costs Estimate (BCCE)				\$2,031,000	
SCOPE CHANGE ALLOWANCE ITEMS					
PROJECT SCOPE INCREASE ALLOWANCE		% of Item BCCE	24%	\$487,000	
Estimated Const. Let Amount (ECLA))			\$2,518,000	
PROJECT DELIVERY ALLOWANCE ITEMS					Ī
PRELIMINARY ENGINEERING		% of Item BCCE	7.2%	\$181,000	
FINAL ENGINEERING		% of Item BCCE	5.4%	\$136,000	
CONSTRUCTION ENGINEERING		% of Item BCCE	9.2%	\$232,000	
CONST CHANGE ORDERS & CLAIMS		% of Item BCCE	10.4%	\$262,000	
FRAFFIC MITIGATION		% of Item BCCE	1.5%	\$38,000	
PUBLIC INVOLVEMENT		% of Item BCCE	1.0%	\$25,000	
Delivery Allowance Subtota	l			\$874,000	
EXTERNAL COSTS					NOTES
REAL ESTATE		8% of Item BCCE	\$162,000	\$162,000	
COMPENSABLE UTILITIES		3% of Item BCCE	\$61,000	\$61,000	
IURISDICTIONAL TRANSFERS		570 OF ROLL DECE	\$01,000 \$0	\$01,000 \$0	
External Costs Subtota	l			\$223,000	
					-
Base Project Cost Estimate				\$3,615,000	

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Wisconsin Department of Transportation Project I.D. 1130-31-00 **Conceptual Cost Estimate** Highway US 41 **SUMMARY Project Title** US 41 Expansion (Winnebago, Outagamie, and Brown Counties) Version 2.0 Project Limits Segment 7: County S Interchange **Project Type** Topography **Project Duration** Soil Type Multi **Current Year Start Construction** 2019 2048 Start Preliminary **End Construction** 2052 Design Alternative #: **Project Scope** Planning Study ITEM DESCRIPTION UNIT QUANTITY UNIT PRICE Total NOTES IAJOR ROADWAY ITEMS Removing Pavement SY 23,400 5.00 \$117,000 Barrier Wall 1 F 110.00 \$0 1 F Curb & Gutter 16.00 \$0 Earthwork 10.00 \$155,000 Common CY 15,500 CY 10.00 Marsh \$0 Rock CY 10.00 \$0 Borrov CY 10.00 \$0 CY EBS 10.00 \$0 Signalized Intersections EACH 250,000.00 \$0 Mainline SY 45.00 \$0 System Ramps SY 45.00 \$0 7,250 45.00 \$326,000 Service Ramps SY Cross Road SY 10,550 40.00 \$422,000 Frontage Roads 40.00 \$656,000 16,400 Local Roads SY 30.00 Mainline Shoulders SY 30.00 \$0 Assumed 5" depth 4 550 Ramp Shoulders SY 30.00 \$137,000 Assumed 5" depth SY 8.00 Mainline 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 8.00 \$0 Ramp Shoulders SY 4,550 8.00 \$36,000 Subbas \$0 Mainline SY 12.00 System Ramps 12.00 SY \$0 Service Ramps SY 7,250 12.00 \$87,000 Cross Road Insert 10.00 Frontage Roads SY 16,400 10.00 \$164,000 Local Roads Insert 10.00 \$0 Mainline Shoulders SY 12.00 \$0 Ramp Shoulders 4,550 \$55,000 Major Roadway Subtotal (MRS) \$2,428,000 **ALLOWANCE ITEMS Certainty Factor** DRAINAGE % of MRS \$277,000 11.4% EROSION CONTROL & RESTORATION % of MRS \$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 4.8% % of MRS \$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 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 Structure Incidentals % of Structures 10.0% \$231,000 \$2,537,000 Structure SubTotal

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	- S	_	\$0	
Bypass / Alternate Routes	Insert	- S	_	\$0	
Other	Insert	- S	_	\$0	
Other	Insert	- S	_	\$0	
Other	Insert	- S	_	\$0	
Other	Insert	- S	_	\$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		A/ AT/ DOOR	240/	A1 <12 000	
		% 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				\$125,000	
PUBLIC INVOLVEMENT		% of Item BCCE % of Item BCCE	1.5% 1.0%	\$125,000 \$84,000	
Delivery Allowance Subtotal		% of Helli BCCE	1.0%	\$2,900,000	
•				φ 2 ,900,000	
EXTERNAL COSTS					NOTES
REAL ESTATE		8% of Item BCCE \$		\$539,000	
COMPENSABLE UTILITIES		3% of Item BCCE \$. ,	\$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	

Wisconsin Department of Transportation Today: 8/20/19 9:48 AM Project I.D. 1130-31-00 **Conceptual Cost Estimate** Highway US 41 **SUMMARY Project Title** US 41 Expansion (Winnebago, Outagamie, and Brown Counties) Version 2.0 **Project Limits** Segment 2: CTH BB - WIS 96 (10,149 LF) MAINLINE ONLY **Project Type** Topography **Project Duration** Soil Type • Multi **Current Year Start Construction** 2019 Start Preliminary **End Construction** 2043 2052 Design Alternative #: ITEM DESCRIPTION UNIT UNIT PRICE QUANTITY Total NOTES **MAJOR ROADWAY ITEMS** Removing Pavement SY 153,749 5.00 \$769,000 Barrier Wall \$3,744,000 LF 34,036 110.00 Curb & Gutter LF \$131,000 8,201 16.00 Earthwork Common CY 220,412 10.00 \$2,204,000 Marsh CY 10.00 \$0 CY \$0 Rock \$ 10.00 Borrow CY 10.00 \$0 EBS CY 10.00 \$0 Signalized Intersections EACH 250,000.00 \$ \$0 **Pavement** Mainline SY 118,956 45.00 \$5,353,000 \$422,000 System Ramps SY 9,382 45.00 Service Ramps SY 45.00 \$0 Cross Road SY 1,168 40.00 \$47,000 Frontage Roads 40.00 \$380,000 SY 9,511 SY 30.00 Assumed 6" depth Local Roads \$0 Mainline Shoulders SY 66,191 30.00 \$1,986,000 Assumed 6" depth Ramp Shoulders SY 30.00 \$0 Assumed 6" depth Base SY 118,956 8.00 \$952,000 Assumed 12" depth Mainline System Ramps SY 9,382 8.00 \$75,000 Service Ramps SY 8.00 Cross Road SY 8.00 \$0 9,511 Frontage Roads SY 8.00 \$76,000 Local Roads SY 8.00 Mainline Shoulders SY 66,191 8.00 \$530,000 Ramp Shoulders 8.00 Subbase SY 118,956 \$1,427,000 Assumed 12" depth Mainline 12.00 System Ramps SY 9,382 12.00 \$113,000 SY 12.00 Service Ramps \$0 Cross Road SY 10.00 \$0 Frontage Roads SY 9,511 10.00 \$95,000 Local Roads SY 10.00 Mainline Shoulders SY 66,191 \$794,000 12.00 Ramp Shoulders SY 12.00 \$0 Major Roadway Subtotal (MRS) \$19,098,000 **ALLOWANCE ITEMS** DRAINAGE % of MRS 11.4% \$2,180,000 EROSION CONTROL & RESTORATION % of MRS 9.3% \$1,767,000 LIGHTING % of MRS 1.4% \$270,000 ROADWAY INCIDENTALS \$5,510,000 % of MRS 28.9% % of MRS SIGNING/MARKING 3.0% \$579,000 TRAFFIC CONTROL & STAGING % of MRS 4.8% \$919,000

% of MRS

Allowance Subtotal

ITS/ FTMS

1.0%

\$191,000

\$11,416,000

RUCTURES	UNIT	QUANTITY	UNIT PRICE	Total	NOTE
ridge Removal	EACH	8	\$ 65,000.00	\$520,000	
w Bridge (Single Level Interchange)	SF	165,376	\$ 120.00	\$19,845,000	
w Bridge (Multi-level Interchange)	Insert	-	\$ -	\$0	
idge Redecking	SF		\$ 70.00	\$0	
ridge Widening	SF		\$ 140.00	\$0	
etaining Wall Removal	Insert		\$ -	\$0 \$0	
ew Retaining Wall	SF		\$ 70.00	\$3,149,000	
•					
oise Wall Removal	Insert		\$ 75,000.00	\$0	
ew Noise Walls	SF		\$ 50.00	\$0	
ew Box Culvert/Extension	Insert	955	\$ 2,300.00	\$2,197,000	
ign Bridge - Cantilever	EACH	4	\$ 30,000.00	\$120,000	
ign Bridge - Single Span	EACH	4	\$ 60,000.00	\$240,000	
ISE Walls	Insert		\$ -	\$0	
ecant Walls	Insert		\$ -	\$0	
ructure Incidentals	IIISCIL	% of Structures		\$2,607,000	
ucture incluentais		% of Structures	10%	\$2,007,000	
Structure SubTotal				\$28,678,000	•
Structure SubTotal				\$28,078,000	
CIAL CONSTRUCTION ELEMENTS	UNIT	QUANTITY	UNIT PRICE	Total	NOTE
porary Bridges	Insert		\$ -	\$0	
porary Roadways	Insert		\$ -	\$0	
onment Mitigation	Insert		\$ -	\$0 \$0	
			\$ - \$ -		
nunity Sensitive Design	Insert			\$0	
dous Materials	Insert		-	\$0	
s / Alternate Routes	Insert		-	\$0	
	Insert		\$ -	\$0	
	Insert		\$ -	\$0	
	Insert	-	\$ -	\$0	
	Insert	-	\$ -	\$0	
Smith Control of the				Φ0	
Special Construction Elements Subtotal				\$0	
Construction Costs Estimate (CCE)				\$59,192,000	
PVT OPNOITH/F OO! !!!!! AND /ASS.					-
EXT SENSITIVE SOLUTIONS (CSS)		0/ af It CCE	50 /	\$2,060,000	
		% of Item CCE	5%	\$2,960,000	•
Base Construction Costs Estimate (BCCE)				\$62,152,000	
				\$02,132,000	
CHANGE ALLOWANCE ITEMS SCOPE INCREASE ALLOWANCE		% of Item BCCE	24%	\$14,916,000	
CHANGE ALLOWANCE ITEMS		% of Item BCCE	24%		
E CHANGE ALLOWANCE ITEMS CT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA)		% of Item BCCE	24%	\$14,916,000	
E CHANGE ALLOWANCE ITEMS CT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA)				\$14,916,000 \$77,068,000	
E CHANGE ALLOWANCE ITEMS CT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) ECT DELIVERY ALLOWANCE ITEMS MINARY ENGINEERING		% of Item BCCE	7.2%	\$14,916,000 \$77,068,000 \$5,549,000	
E CHANGE ALLOWANCE ITEMS CT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) ECT DELIVERY ALLOWANCE ITEMS MINARY ENGINEERING ENGINEERING		% of Item BCCE % of Item BCCE	7.2% 5.4%	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000	
E CHANGE ALLOWANCE ITEMS CT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) ECT DELIVERY ALLOWANCE ITEMS MINARY ENGINEERING ENGINEERING RUCTION ENGINEERING		% of Item BCCE % of Item BCCE % of Item BCCE	7.2% 5.4% 9.2%	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000	
CHANGE ALLOWANCE ITEMS T SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) CT DELIVERY ALLOWANCE ITEMS INARY ENGINEERING RUCTION ENGINEERING		% of Item BCCE % of Item BCCE	7.2% 5.4%	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000	
CHANGE ALLOWANCE ITEMS T SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) CT DELIVERY ALLOWANCE ITEMS INARY ENGINEERING RUCTION ENGINEERING CHANGE ORDERS & CLAIMS		% of Item BCCE % of Item BCCE % of Item BCCE	7.2% 5.4% 9.2%	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000	
CHANGE ALLOWANCE ITEMS IT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) CT DELIVERY ALLOWANCE ITEMS INARY ENGINEERING NGINEERING UCTION ENGINEERING CHANGE ORDERS & CLAIMS C MITIGATION		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5%	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000 \$8,015,000 \$1,156,000	
HANGE ALLOWANCE ITEMS SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) T DELIVERY ALLOWANCE ITEMS NARY ENGINEERING GINEERING CTION ENGINEERING HANGE ORDERS & CLAIMS MITIGATION		% of Item BCCE % of Item BCCE % of Item BCCE % of Item BCCE	7.2% 5.4% 9.2% 10.4%	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000 \$8,015,000	
CHANGE ALLOWANCE ITEMS I SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) IT DELIVERY ALLOWANCE ITEMS INARY ENGINEERING INGINEERING UCTION ENGINEERING IHANGE ORDERS & CLAIMS I MITIGATION INVOLVEMENT Delivery Allowance Subtotal		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5%	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000 \$8,015,000 \$1,156,000 \$771,000	
E CHANGE ALLOWANCE ITEMS CT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) ECT DELIVERY ALLOWANCE ITEMS IINARY ENGINEERING ENGINEERING ENGINEERING CHANGE ORDERS & CLAIMS IC MITIGATION E INVOLVEMENT Delivery Allowance Subtotal ENAL COSTS		% of Item BCCE % of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0%	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000 \$8,015,000 \$1,156,000 \$771,000 \$26,743,000	NOTE
E CHANGE ALLOWANCE ITEMS CT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) ECT DELIVERY ALLOWANCE ITEMS IINARY ENGINEERING ENGINEERING CHANGE ORDERS & CLAIMS C MITIGATION EINVOLVEMENT Delivery Allowance Subtotal ENAL COSTS STATE		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5%	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000 \$8,015,000 \$1,156,000 \$771,000 \$26,743,000	NOTE
CHANGE ALLOWANCE ITEMS IT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) ET DELIVERY ALLOWANCE ITEMS INARY ENGINEERING INGINEERING UCTION ENGINEERING EHANGE ORDERS & CLAIMS EMITIGATION INVOLVEMENT Delivery Allowance Subtotal VAL COSTS TATE		% of Item BCCE % of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0%	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000 \$8,015,000 \$1,156,000 \$771,000 \$26,743,000	NOTE
CHANGE ALLOWANCE ITEMS SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) ET DELIVERY ALLOWANCE ITEMS NARY ENGINEERING INGINEERING UCTION ENGINEERING HANGE ORDERS & CLAIMS MITIGATION NVOLVEMENT Delivery Allowance Subtotal IAL COSTS FATE SABLE UTILITIES		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0%	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000 \$8,015,000 \$1,156,000 \$771,000 \$26,743,000	NOTE
E CHANGE ALLOWANCE ITEMS ET SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) ECT DELIVERY ALLOWANCE ITEMS IINARY ENGINEERING ENGINEERING ENCITION ENGINEERING CHANGE ORDERS & CLAIMS C MITIGATION INVOLVEMENT Delivery Allowance Subtotal ENAL COSTS STATE ENSABLE UTILITIES		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% \$4,972,000 \$1,865,000	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000 \$8,015,000 \$771,000 \$26,743,000 \$4,972,000 \$1,865,000	NOTE
CHANGE ALLOWANCE ITEMS T SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) CT DELIVERY ALLOWANCE ITEMS INARY ENGINEERING NGINEERING CHANGE ORDERS & CLAIMS CHANGE ORDERS & CLAIMS CHAITGATION INVOLVEMENT Delivery Allowance Subtotal NAL COSTS STATE NSABLE UTILITIES CTIONAL TRANSFERS External Costs Subtotal		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% \$4,972,000 \$1,865,000	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000 \$8,015,000 \$1,156,000 \$771,000 \$26,743,000 \$1,865,000 \$0 \$6,837,000	NOTE
CHANGE ALLOWANCE ITEMS T SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) CT DELIVERY ALLOWANCE ITEMS INARY ENGINEERING NGINEERING EUCTION ENGINEERING CHANGE ORDERS & CLAIMS C MITIGATION INVOLVEMENT Delivery Allowance Subtotal NAL COSTS STATE NSABLE UTILITIES CTIONAL TRANSFERS		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% \$4,972,000 \$1,865,000	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000 \$8,015,000 \$1,156,000 \$771,000 \$26,743,000 \$4,972,000 \$1,865,000 \$0	NOTE
CHANGE ALLOWANCE ITEMS T SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) CT DELIVERY ALLOWANCE ITEMS IINARY ENGINEERING ENGINEERING CHANGE ORDERS & CLAIMS C MITIGATION INVOLVEMENT Delivery Allowance Subtotal NAL COSTS STATE NSABLE UTILITIES ICTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% \$4,972,000 \$1,865,000	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000 \$8,015,000 \$1,156,000 \$771,000 \$26,743,000 \$1,865,000 \$0 \$6,837,000	NOTE
CHANGE ALLOWANCE ITEMS T SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) CT DELIVERY ALLOWANCE ITEMS INARY ENGINEERING RUCTION ENGINEERING CHANGE ORDERS & CLAIMS C MITIGATION INVOLVEMENT Delivery Allowance Subtotal NAL COSTS STATE NSABLE UTILITIES CTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate DJUSTMENTS		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% \$4,972,000 \$1,865,000 \$0	\$14,916,000 \$77,068,000 \$77,068,000 \$4,162,000 \$7,090,000 \$8,015,000 \$1,156,000 \$771,000 \$26,743,000 \$4,972,000 \$1,865,000 \$0 \$6,837,000	
CHANGE ALLOWANCE ITEMS T SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) CT DELIVERY ALLOWANCE ITEMS IINARY ENGINEERING ENGINEERING CHANGE ORDERS & CLAIMS C MITIGATION INVOLVEMENT Delivery Allowance Subtotal NAL COSTS STATE NSABLE UTILITIES ICTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate DJUSTMENTS m A		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% \$4,972,000 \$1,865,000 \$0	\$14,916,000 \$77,068,000 \$77,068,000 \$4,162,000 \$7,090,000 \$8,015,000 \$11,156,000 \$771,000 \$26,743,000 \$4,972,000 \$1,865,000 \$0 \$6,837,000	
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E CHANGE ALLOWANCE ITEMS CT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) ECT DELIVERY ALLOWANCE ITEMS MINARY ENGINEERING ENGINEERING CHANGE ORDERS & CLAIMS IC MITIGATION C INVOLVEMENT Delivery Allowance Subtotal ENAL COSTS EXTATE ENSABLE UTILITIES ICTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate ADJUSTMENTS m A m B m C		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% \$4,972,000 \$1,865,000 \$0	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000 \$8,015,000 \$1,156,000 \$771,000 \$26,743,000 \$1,865,000 \$0 \$6,837,000 \$10,648,000	
E CHANGE ALLOWANCE ITEMS CT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) ECT DELIVERY ALLOWANCE ITEMS MINARY ENGINEERING ENGINEERING ENGINEERING C CHANGE ORDERS & CLAIMS IC MITIGATION C INVOLVEMENT Delivery Allowance Subtotal ENAL COSTS ESTATE ENSABLE UTILITIES DICTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate ADJUSTMENTS EM A EM B		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% \$4,972,000 \$1,865,000 \$0	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000 \$8,015,000 \$1,156,000 \$771,000 \$26,743,000 \$1,865,000 \$0 \$6,837,000 \$10,648,000	
ECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) JECT DELIVERY ALLOWANCE ITEMS IMINARY ENGINEERING L ENGINEERING T CHANGE ORDERS & CLAIMS FIC MITIGATION IC INVOLVEMENT Delivery Allowance Subtotal ERNAL COSTS ESTATE PENSABLE UTILITIES EDICTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate ADJUSTMENTS tem A tem B tem C Risk Adjustment Subtotal		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% \$4,972,000 \$1,865,000 \$0 \$0	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000 \$8,015,000 \$1,156,000 \$771,000 \$26,743,000 \$4,972,000 \$1,865,000 \$0 \$6,837,000 \$110,648,000	
E CHANGE ALLOWANCE ITEMS CCT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) ECT DELIVERY ALLOWANCE ITEMS MINARY ENGINEERING ENGINEERING ENGINEERING I CHANGE ORDERS & CLAIMS FIC MITIGATION C INVOLVEMENT Delivery Allowance Subtotal RNAL GOSTS ESTATE ENSABLE UTILITIES DICTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate ADJUSTMENTS em A em B em C Risk Adjustment Subtotal MATE UNCERTAINTY ainty Item A		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% \$4,972,000 \$1,865,000 \$0	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000 \$8,015,000 \$1,156,000 \$771,000 \$26,743,000 \$1,865,000 \$0 \$6,837,000 \$10,648,000	NOTE
E CHANGE ALLOWANCE ITEMS CT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) ECT DELIVERY ALLOWANCE ITEMS MINARY ENGINEERING ENGINEERING ENGINEERING CHANGE ORDERS & CLAIMS IC MITIGATION CINVOLVEMENT Delivery Allowance Subtotal ENAL COSTS STATE ENSABLE UTILITIES MICTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate ADJUSTMENTS m A m B m C Risk Adjustment Subtotal		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% \$4,972,000 \$1,865,000 \$0 \$0	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000 \$8,015,000 \$1,156,000 \$771,000 \$26,743,000 \$4,972,000 \$1,865,000 \$0 \$6,837,000 \$110,648,000	NOTE
CHANGE ALLOWANCE ITEMS T SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) ET DELIVERY ALLOWANCE ITEMS INARY ENGINEERING INGINEERING UCTION ENGINEERING CHANGE ORDERS & CLAIMS CMITIGATION INVOLVEMENT Delivery Allowance Subtotal NAL COSTS ETATE INSABLE UTILITIES CTIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate DJUSTMENTS IN A IN B IN COSTS IN B IN COSTS IN A IN B IN COSTS		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% \$4,972,000 \$1,865,000 \$0 \$0 \$0 \$0 \$0	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000 \$8,015,000 \$1,156,000 \$771,000 \$26,743,000 \$4,972,000 \$1,865,000 \$0 \$6,837,000 \$10,648,000	NOTE
CHANGE ALLOWANCE ITEMS SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) T DELIVERY ALLOWANCE ITEMS NARY ENGINEERING IGINEERING UCTION ENGINEERING HANGE ORDERS & CLAIMS MITIGATION NVOLVEMENT Delivery Allowance Subtotal IAL COSTS FATE SABLE UTILITIES TIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate DUSTMENTS A B C Risk Adjustment Subtotal TE UNCERTAINTY Ity Item A Ity Item A		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% \$4,972,000 \$1,865,000 \$0 \$0 \$0 \$0 \$0	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000 \$8,015,000 \$1,156,000 \$771,000 \$26,743,000 \$1,865,000 \$0 \$6,837,000 \$10,648,000 \$0 \$0 \$0 \$0 \$0	NOTE
EHANGE ALLOWANCE ITEMS SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) T DELIVERY ALLOWANCE ITEMS NARY ENGINEERING GINEERING CITION ENGINEERING HANGE ORDERS & CLAIMS MITIGATION NVOLVEMENT Delivery Allowance Subtotal AL COSTS EATE SABLE UTILITIES TIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate JUSTMENTS A B C Risk Adjustment Subtotal		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% \$4,972,000 \$1,865,000 \$0 \$0 \$0 \$0 \$0	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000 \$8,015,000 \$1,156,000 \$771,000 \$26,743,000 \$1,865,000 \$0 \$6,837,000 \$10,648,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTE
CHANGE ALLOWANCE ITEMS I SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) IT DELIVERY ALLOWANCE ITEMS NARY ENGINEERING NGINEERING UCTION ENGINEERING HANGE ORDERS & CLAIMS MITIGATION NVOLVEMENT Delivery Allowance Subtotal IAL COSTS IATE SABLE UTILITIES TIONAL TRANSFERS External Costs Subtotal Base Project Cost Estimate DJUSTMENTS A B C Risk Adjustment Subtotal TE UNCERTAINTY tty Item A tty Item B tty Item B tty Item C		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% \$4,972,000 \$1,865,000 \$0 \$0 \$0 \$0 \$0	\$14,916,000 \$77,068,000 \$5,549,000 \$4,162,000 \$7,090,000 \$8,015,000 \$1,156,000 \$771,000 \$26,743,000 \$1,865,000 \$0 \$6,837,000 \$10,648,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTI

Wisconsin Department of Transportation Today: 8/20/19 9:49 AM Project I.D. 1130-31-00 **Conceptual Cost Estimate** Highway US 41 **SUMMARY Project Title** US 41 Expansion (Winnebago, Outagamie, and Brown Counties) Version 2.0 **Project Limits** Segment 3: WIS 96 - CTH OO (5,095 LF) MAINLINE ONLY **Project Type** Topography **Project Duration** Soil Type Multi **Current Year** Start Construction 2019 2048 **Start Preliminary End Construction** 2043 2052 Design Alternative #: **Project Scope Project Assumptions** ITEM DESCRIPTION
MAJOR ROADWAY ITEMS QUANTITY UNIT PRICE UNIT Total NOTES **Bid Expre** Removing Pavement SY 67,044 5.00 \$335,000 Barrier Wall 16,080 110.00 \$1,769,000 Curb & Gutter Earthwork Common CY 98,677 10.00 \$987,000 CY 10.00 Marsh \$0 Rock CY 10.00 \$0 10.00 Borrow CY \$0 EBS 10.00 \$0 CY Signalized Intersections EACH \$ 250,000.00 \$0 Pavement SY 59,239 \$2,666,000 Mainline 45.00 \$105,000 45.00 System Ramps SY 2,340 Service Ramps 45.00 SY \$0 Cross Road SY 40.00 \$0 Frontage Roads SY 40.00 \$0 Local Roads SY 30.00 \$0 Mainline Shoulders SY 33,250 30.00 \$997,000 Assumed 5" depth Ramp Shoulders SY 30.00 Assumed 5" depth \$474,000 Mainline SY 59,239 8.00 System Ramps SY 2,340 8.00 \$19,000 Service Ramps SY 8.00 \$0 Cross Road SY 8.00 \$0 Frontage Roads SY 8.00 \$0 Local Roads 8.00 Mainline Shoulders SY 33,250 8.00 \$266,000 Ramp Shoulders SY 8.00 \$0 Subbase Mainline SY 59,239 12.00 \$711,000 System Ramps SY 2,340 12.00 \$28,000 Service Ramps SY 12.00 \$0 Cross Road SY 10.00 \$0 Frontage Roads SY 10.00 \$0 SY 10.00 Local Roads Mainline Shoulders SY 33,250 12.00 \$399,000 Ramp Shoulders SY Major Roadway Subtotal (MRS) \$8,756,000 **ALLOWANCE ITEM Certainty Factor** DRAINAGE \$999,000 \$810,000 % of MRS 11.4% EROSION CONTROL & RESTORATION % of MRS 9.3% LIGHTING % of MRS 1.4% \$124,000 ROADWAY INCIDENTALS % of MRS 28.9% \$2,526,000 SIGNING/MARKING % of MRS 3.0% \$265,000

% of MRS

% of MRS

4.8%

1.0%

\$422,000

\$88,000 \$5,234,000

TRAFFIC CONTROL & STAGING

Allowance Subtotal

ITS/ FTMS

					_
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		\$ 120.00	\$4,267,000	
New Bridge (Multi-level Interchange)	Insert		\$ -	\$0	
Bridge Redecking	SF		\$ 70.00	\$233,000	
Bridge Widening	SF		\$ 140.00	\$0	
Retaining Wall Removal	Insert		\$ -	\$0	
	SF		\$ 70.00		
New Retaining Wall				\$3,903,000	
Noise Wall Removal	Insert		\$ 75,000.00	\$0	
New Noise Walls	SF		\$ 50.00	\$0	
New Box Culvert/Extension	Insert		\$ 2,300.00	\$0	
Sign Bridge - Cantilever	EACH	4	\$ 30,000.00	\$120,000	
Sign Bridge - Single Span	EACH	-	\$ 60,000.00	\$0	
MSE Walls	Insert		\$ -	\$0	
Secant Walls	Insert		\$ -	\$0	
Structure Incidentals		% of Structures	10%	\$865,000	
Structure SubTotal				\$9,518,000	
	11617	OU ANTITY	UNIT PRICE		NOTES
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	-	\$ -	\$0	
Other	Insert	-	\$ -	\$0	
Other	Insert		\$ -	\$0	
Other	Insert		\$ -	\$0	
Special Construction Elements Subtotal				\$0	
Special Construction Elements subjecting				Ψ0	
Construction Costs Estimate (CCE)				\$23,508,000	
CONTEXT SENSITIVE SOLUTIONS (CSS)					
CSS		% of Item CCE	5%	\$1,175,000	
Base Construction Costs Estimate (BCCE)				\$24,683,000	
					=
BCOPE CHANGE ALLOWANCE ITEMS					
PROJECT SCOPE INCREASE ALLOWANCE		% of Item BCCE	24%	\$5,924,000	
Estimated Const. Let Amount (ECLA)				\$30,607,000	
					_
PROJECT DELIVERY ALLOWANCE ITEMS					
RELIMINARY ENGINEERING					
		% of Item BCCE	7%	\$2,204,000	
UNAL RISITINGERING		% of Item BCCE	7% 5%	\$2,204,000 \$1,653,000	
		% of Item BCCE	5%	\$1,653,000	
CONSTRUCTION ENGINEERING		% of Item BCCE % of Item BCCE	5% 9%	\$1,653,000 \$2,816,000	
CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS		% of Item BCCE % of Item BCCE % of Item BCCE	5% 9% 10%	\$1,653,000 \$2,816,000 \$3,183,000	
CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION		% of Item BCCE % of Item BCCE % of Item BCCE % of Item BCCE	5% 9% 10% 2%	\$1,653,000 \$2,816,000 \$3,183,000 \$459,000	
ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT		% of Item BCCE % of Item BCCE % of Item BCCE	5% 9% 10%	\$1,653,000 \$2,816,000 \$3,183,000 \$459,000 \$306,000	
ONSTRUCTION ENGINEERING ONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION		% of Item BCCE % of Item BCCE % of Item BCCE % of Item BCCE	5% 9% 10% 2%	\$1,653,000 \$2,816,000 \$3,183,000 \$459,000	
CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS PRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS		% of Item BCCE	5% 9% 10% 2% 1%	\$1,653,000 \$2,816,000 \$3,183,000 \$459,000 \$306,000 \$10,621,000	NOTES
CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS PRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE		% of Item BCCE 8% of Item BCCE	5% 9% 10% 2% 1%	\$1,653,000 \$2,816,000 \$3,183,000 \$459,000 \$306,000 \$10,621,000	NOTES
CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS (RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS (EAL ESTATE COMPENSABLE UTILITIES		% of Item BCCE 8% of Item BCCE 18% of Item BCCE 18% of Item BCCE 18% of Item BCCE 18% of Item BCCE	5% 9% 10% 2% 1% \$ 1,975,000.00 \$ 740,000.00	\$1,653,000 \$2,816,000 \$3,183,000 \$459,000 \$306,000 \$10,621,000 \$1,975,000 \$740,000	NOTES
CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS EAL ESTATE COMPENSABLE UTILITIES		% of Item BCCE 8% of Item BCCE 3% of Item BCCE	5% 9% 10% 2% 1% \$ 1,975,000.00 \$ 740,000.00 \$ -	\$1,653,000 \$2,816,000 \$3,183,000 \$459,000 \$306,000 \$10,621,000 \$1,975,000 \$740,000 \$0	NOTES
CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS PRAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES URISDICTIONAL TRANSFERS		% of Item BCCE 8% of Item BCCE 3% of Item BCCE	5% 9% 10% 2% 1% \$ 1,975,000.00 \$ 740,000.00	\$1,653,000 \$2,816,000 \$3,183,000 \$459,000 \$306,000 \$10,621,000 \$1,975,000 \$740,000	NOTES
CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS EEAL ESTATE COMPENSABLE UTILITIES URISDICTIONAL TRANSFERS Other		% of Item BCCE % of Item BCCE % of Item BCCE % of Item BCCE 8% of Item BCCE 3% of Item BCCE	5% 9% 10% 2% 1% \$ 1,975,000.00 \$ 740,000.00 \$ -	\$1,653,000 \$2,816,000 \$3,183,000 \$459,000 \$306,000 \$10,621,000 \$1,975,000 \$740,000 \$0	NOTES
CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES URISDICTIONAL TRANSFERS Other Other		% of Item BCCE 8% of Item BCCE 3% of Item BCCE	5% 9% 10% 2% 1% \$ 1,975,000.00 \$ 740,000.00 \$ - \$ - \$ -	\$1,653,000 \$2,816,000 \$3,183,000 \$459,000 \$306,000 \$10,621,000 \$1,975,000 \$740,000 \$0 \$0	NOTES
CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS PRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES URISDICTIONAL TRANSFERS Other Other		% of Item BCCE 8% of Item BCCE 1	5% 9% 10% 2% 1% 5 1,975,000.00 \$ 740,000.00 \$ - \$ - \$ - \$ -	\$1,653,000 \$2,816,000 \$3,183,000 \$459,000 \$306,000 \$10,621,000 \$1,975,000 \$740,000 \$0 \$0 \$0 \$0	NOTES
CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS EAL ESTATE COMPENSABLE UTILITIES URISDICTIONAL TRANSFERS Other Other Other		% of Item BCCE 3% of Item BCCE	5% 9% 10% 2% 1% \$ 1,975,000.00 \$ 740,000.00 \$ - \$ - \$ - \$ - \$ -	\$1,653,000 \$2,816,000 \$3,183,000 \$459,000 \$306,000 \$10,621,000 \$1,975,000 \$740,000 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS CRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES URISDICTIONAL TRANSFERS Other Other Other Other		% of Item BCCE 3% of Item BCCE	5% 9% 10% 2% 1% 5 1,975,000.00 \$ 740,000.00 \$ - \$ - \$ - \$ -	\$1,653,000 \$2,816,000 \$3,183,000 \$459,000 \$306,000 \$10,621,000 \$1,975,000 \$740,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
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CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS PRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES URISDICTIONAL TRANSFERS Other Other Other Other Other Other		% of Item BCCE 3% of Item BCCE	5% 9% 10% 2% 1% \$ 1,975,000.00 \$ 740,000.00 \$ - \$ - \$ - \$ - \$ -	\$1,653,000 \$2,816,000 \$3,183,000 \$459,000 \$306,000 \$10,621,000 \$1,975,000 \$740,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
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CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS PRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES URISDICTIONAL TRANSFERS Other Other Other Other Other External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B		% of Item BCCE 8% of Item BCCE 3% of Item BCCE	5% 9% 10% 2% 1% \$ 1,975,000.00 \$ 740,000.00 \$ - \$ - \$ - \$ - \$ - \$ -	\$1,653,000 \$2,816,000 \$3,183,000 \$459,000 \$306,000 \$10,621,000 \$1,975,000 \$740,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES UURISDICTIONAL TRANSFERS Other Other Other Other Dither External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B Risk Item C		% of Item BCCE 8% of Item BCCE 3% of Item BCCE	5% 9% 10% 2% 1% \$ 1,975,000.00 \$ 740,000.00 \$ - \$ - \$ - \$ - \$ - \$ -	\$1,653,000 \$2,816,000 \$3,183,000 \$459,000 \$306,000 \$10,621,000 \$1,975,000 \$740,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
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CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS PRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES URISDICTIONAL TRANSFERS Other Other Other Other Other External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B Risk Item C Risk Adjustment Subtotal ESTIMATE UNCERTAINTY Uncertainty Item A		% of Item BCCE 8% of Item BCCE 3% of Item BCCE	5% 9% 10% 2% 1% \$ 1,975,000.00 \$ 740,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$1,653,000 \$2,816,000 \$3,183,000 \$459,000 \$306,000 \$10,621,000 \$1,975,000 \$740,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS PRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES PURISDICTIONAL TRANSFERS Other Other Other Other Other Other Other External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B Risk Item C Risk Adjustment Subtotal		% of Item BCCE 8% of Item BCCE 1	5% 9% 10% 2% 1% \$ 1,975,000.00 \$ 740,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$1,653,000 \$2,816,000 \$3,183,000 \$459,000 \$306,000 \$10,621,000 \$1,975,000 \$740,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES URISDICTIONAL TRANSFERS Other Other Other Other External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B Risk Item C Risk Adjustment Subtotal ESTIMATE UNCERTAINTY Incertainty Item A Incertainty Item A Incertainty Item A		% of Item BCCE 8% of Item BCCE 1	5% 9% 10% 2% 11% \$ 1,975,000.00 \$ 740,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$1,653,000 \$2,816,000 \$3,183,000 \$459,000 \$306,000 \$10,621,000 \$1,975,000 \$740,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS RAFFIC MITIGATION UBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES URISDICTIONAL TRANSFERS Other Other Other Other External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B Risk Item C Risk Adjustment Subtotal STIMATE UNCERTAINTY UNCERTAINTY UNCERTAINTY Incertainty Item A Incertainty Item A Incertainty Item B Incertainty Item C		% of Item BCCE 8% of Item BCCE 1	5% 9% 10% 2% 11% \$ 1,975,000.00 \$ 740,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$1,653,000 \$2,816,000 \$3,183,000 \$459,000 \$306,000 \$10,621,000 \$1,975,000 \$740,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES

Today: 8/20/19 9:50 AM

Project I.D. 1130-31-00 **Conceptual Cost Estimate** Highway US 41 **SUMMARY Project Title** US 41 Expansion (Winnebago, Outagamie, and Brown Counties) Version 2.0 **Project Limits** Segment 4: CTH OO - CTH E (26,294 LF) MAINLINE ONLY **Project Type** Topography **Project Duration** Soil Type Multi **Current Year Start Construction** 2019 2048 **Start Preliminary End Construction** 2043 2052 Design **Project Scope** Alternative #: **Project Assumptions** ITEM DESCRIPTION UNIT QUANTITY UNIT PRICE Total NOTES **MAJOR ROADWAY ITEMS** Removing Pavement SY 241,964 5.00 \$1,210,000 Barrier Wall 88,073 110.00 \$9,688,000 Curb & Gutter LF 16.00 Earthwork CY \$4,652,000 10.00 Common 465,210 Marsh CY 10.00 \$0 Rock CY \$ 10.00 \$0 Borrow CY 10.00 \$0 EBS CY 10.00 \$0 250,000.00 \$0 Signalized Intersections **EACH** Pavement Mainline SY 260,184 45.00 \$11,708,000 \$218,000 System Ramps SY 4,842 \$ 45.00 Service Ramps SY 45.00 \$0 Cross Road SY 40.00 \$0 Frontage Roads SY 40.00 \$0 Local Roads SY 30.00 \$0 Assumed 5" depth Mainline Shoulders 187,926 30.00 \$5,638,000 SY Ramp Shoulders SY 30.00 \$0 Assumed 5" depth Base SY \$2,081,000 Mainline 260,184 8.00 System Ramps SY 4,842 8.00 \$39,000 Service Ramps SY 8.00 \$0 Cross Road SY 8.00 \$0 Frontage Roads SY 8.00 \$0 \$ Local Roads SY 8.00 \$0 Mainline Shoulders 187,926 \$1,503,000 SY 8.00 Ramp Shoulders SY 8.00 \$0 Subbase \$3,122,000 SY 12.00 Mainline 260,184 \$ \$58,000 System Ramps SY 4,842 12.00 Service Ramps SY 12.00 \$0 Cross Road SY 10.00 \$0 Frontage Roads SY 10.00 \$0 Local Roads SY 10.00 \$0 Mainline Shoulders SY 187,926 12.00 \$2,255,000 Ramp Shoulders 12.00 \$0 Major Roadway Subtotal (MRS) \$42,172,000 **ALLOWANCE ITEMS Certainty Factor** DRAINAGE % of MRS 11.4% \$4.814.000 EROSION CONTROL & RESTORATION \$3,901,000 % of MRS 9.3% LIGHTING % of MRS 1.4% \$595,000 ROADWAY INCIDENTALS % of MRS 28.9% \$12,167,000 SIGNING/MARKING % of MRS 3.0% \$1,278,000 TRAFFIC CONTROL & STAGING % of MRS 4.8% \$2,030,000 ITS/ FTMS % of MRS 1.0% \$422,000 Allowance Subtotal \$25,207,000

Wisconsin Department of Transportation

STRUCTURES (see STRUCTURE tab)	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Bridge Removal	Insert	5 5		\$325,000	
· · · · · ·					
New Bridge (Single Level Interchange)	SF	43,520		\$5,222,000	
New Bridge (Multi-level Interchange)	Insert		\$ -	\$0	
Bridge Redecking	SF	57,733	\$ 70.00	\$4,041,000	
Bridge Widening	SF	5,641	\$ 140.00	\$790,000	
Retaining Wall Removal	Insert		\$ -	\$0	
New Retaining Wall	SF	10,808	\$ 70.00	\$757,000	
Noise Wall Removal	Insert		5 75,000.00	\$0	
New Noise Walls	SF	233,172	\$ 50.00	\$11,659,000	
New Box Culvert/Extension	Insert	- :	\$ 2,300.00	\$0	
Sign Bridge - Cantilever	EACH	2 3	\$ 30,000.00	\$60,000	
Sign Bridge - Single Span	EACH		60,000.00	\$0	
MSE Walls	Insert		\$ -	\$0	
Secant Walls	Insert		\$ -	\$0	
Structure Incidentals		% of Structures	10%	\$2,285,000	
Structure SubTotal				\$25,139,000	
SPECIAL CONSTRUCTION ELEMENTS	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
					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		, - S -	\$0 \$0	
71			*		
Other	Insert		\$ -	\$0	
Other	Insert		-	\$0	
Other	Insert		\$ -	\$0	
Other	Insert	- :	\$ -	\$0	
Special Construction Elements Subtotal				\$0	
•				·	
Construction Costs Estimate (CCE)				\$92,518,000	
Construction Costs Estimate (CCE)				\$92,318,000	
AGNITEVE OFNOITIVE OOI LITIANO (AGO)					
CONTEXT SENSITIVE SOLUTIONS (CSS)					
CSS		% of Item CCE	5%	\$4,626,000	
Base Construction Costs Estimate (BCCE)				\$97,144,000	
Base Construction Costs Estimate (BCCE)					
					İ
SCOPE CHANGE ALLOWANCE ITEMS		% of Itam RCCE		\$97,144,000	
SCOPE CHANGE ALLOWANCE ITEMS PROJECT SCOPE INCREASE ALLOWANCE		% of Item BCCE	24%	\$97,144,000 \$23,315,000	
SCOPE CHANGE ALLOWANCE ITEMS		% of Item BCCE		\$97,144,000	
SCOPE CHANGE ALLOWANCE ITEMS PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA)		% of Item BCCE		\$97,144,000 \$23,315,000	
SCOPE CHANGE ALLOWANCE ITEMS PROJECT SCOPE INCREASE ALLOWANCE		% of Item BCCE		\$97,144,000 \$23,315,000	
SCOPE CHANGE ALLOWANCE ITEMS PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS			24%	\$97,144,000 \$23,315,000 \$120,459,000	
SCOPE CHANGE ALLOWANCE ITEMS PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING		% of Item BCCE	24%	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000	
SCOPE CHANGE ALLOWANCE ITEMS PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING		% of Item BCCE % of Item BCCE	24% 7.2% 5.4%	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000	
SCOPE CHANGE ALLOWANCE ITEMS PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING		% of Item BCCE % of Item BCCE % of Item BCCE	24% 7.2% 5.4% 9.2%	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000	
SCOPE CHANGE ALLOWANCE ITEMS PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING		% of Item BCCE % of Item BCCE	24% 7.2% 5.4%	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000	
PROJECT DELIVERY ALLOWANCE ITEMS PROJECT DELIVERY ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS		% of Item BCCE % of Item BCCE % of Item BCCE	24% 7.2% 5.4% 9.2%	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000	
PROJECT DELIVERY ALLOWANCE ITEMS PROJECT DELIVERY ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5%	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000 \$12,528,000 \$1,807,000	
PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT		% of Item BCCE % of Item BCCE % of Item BCCE % of Item BCCE	7.2% 5.4% 9.2% 10.4%	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000 \$12,528,000 \$1,807,000 \$1,205,000	
SCOPE CHANGE ALLOWANCE ITEMS PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5%	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000 \$12,528,000 \$1,807,000	
PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5%	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000 \$12,528,000 \$1,807,000 \$1,205,000	NOTES
PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0%	\$97,144,000 \$23,315,000 \$120,459,000 \$6,505,000 \$11,082,000 \$12,528,000 \$1,807,000 \$1,205,000 \$41,800,000	NOTES
PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0%	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000 \$12,528,000 \$1,205,000 \$41,800,000	NOTES
PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0%	\$97,144,000 \$23,315,000 \$120,459,000 \$6,505,000 \$11,082,000 \$12,528,000 \$1,807,000 \$1,205,000 \$41,800,000	NOTES
PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0%	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000 \$12,528,000 \$1,205,000 \$41,800,000	NOTES
PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0%	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000 \$12,528,000 \$1,205,000 \$41,800,000 \$7,772,000 \$2,914,000 \$0	NOTES
PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0%	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000 \$11,807,000 \$1,205,000 \$41,800,000 \$7,772,000 \$2,914,000 \$0 \$0	NOTES
PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0%	\$97,144,000 \$23,315,000 \$120,459,000 \$6,505,000 \$11,082,000 \$12,528,000 \$1,807,000 \$1,205,000 \$41,800,000 \$7,772,000 \$2,914,000 \$0 \$0 \$0	NOTES
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PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other		% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0%	\$97,144,000 \$23,315,000 \$120,459,000 \$6,505,000 \$11,082,000 \$11,2528,000 \$1,205,000 \$41,807,000 \$41,800,000 \$7,772,000 \$2,914,000 \$0 \$0 \$0 \$0 \$0	NOTES
PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other		% of Item BCCE 3% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0%	\$97,144,000 \$23,315,000 \$120,459,000 \$6,505,000 \$11,082,000 \$11,082,000 \$1,205,000 \$41,807,000 \$41,800,000 \$7,772,000 \$2,914,000 \$0 \$0 \$0 \$0	NOTES
PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other		% of Item BCCE 3% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% 5.494 0.000 0.000 0.000 0.0000 0.0000 0.00000 0.000000	\$97,144,000 \$23,315,000 \$120,459,000 \$6,505,000 \$11,082,000 \$11,2528,000 \$1,205,000 \$41,807,000 \$41,800,000 \$7,772,000 \$2,914,000 \$0 \$0 \$0 \$0 \$0	NOTES
PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other		% of Item BCCE 3% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% 5.494 0.000 0.000 0.000 0.0000 0.0000 0.00000 0.000000	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000 \$12,528,000 \$1,205,000 \$41,800,000 \$7,772,000 \$2,914,000 \$0 \$0 \$0 \$0 \$0	NOTES
PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other Other Other Other External Costs Subtotal		% of Item BCCE 3% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% 5 7,772,000.00 5	\$97,144,000 \$23,315,000 \$120,459,000 \$6,505,000 \$11,082,000 \$11,807,000 \$1,205,000 \$41,800,000 \$7,772,000 \$2,914,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other Other		% of Item BCCE 3% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% 5 7,772,000.00 5	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000 \$12,528,000 \$1,205,000 \$41,800,000 \$7,772,000 \$2,914,000 \$0 \$0 \$0 \$0 \$0	NOTES
PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other		% of Item BCCE 3% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% 5 7,772,000.00 5	\$97,144,000 \$23,315,000 \$120,459,000 \$6,505,000 \$11,082,000 \$11,807,000 \$1,205,000 \$41,800,000 \$7,772,000 \$2,914,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
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PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other		% of Item BCCE 3% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% 5 7,772,000.00 5 - 5 - 5 - 5 - 5 -	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000 \$11,082,000 \$1,205,000 \$41,800,000 \$7,772,000 \$2,914,000 \$0 \$0 \$0 \$0 \$0 \$10,686,000 \$172,945,000	
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PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other Other Other Other Other Risk Adjustments Risk Item A Risk Item A Risk Item B Risk Item C		% of Item BCCE 8% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% 5 7,772,000.00 5 - 5 - 5 - 5 - 5 -	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000 \$11,082,000 \$1,205,000 \$41,807,000 \$41,800,000 \$7,772,000 \$2,914,000 \$0 \$0 \$0 \$0 \$0 \$10 \$10,686,000 \$172,945,000	
PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other Other Other Other REXTERNAL COSTS External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item B		% of Item BCCE 8% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% 8 7,772,000.00 2,914,000.00 5 - 5 - 5 - 5 - 5 - 5 -	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000 \$11,082,000 \$1,205,000 \$41,807,000 \$41,800,000 \$7,772,000 \$2,914,000 \$0 \$0 \$0 \$0 \$0 \$10 \$10,686,000 \$172,945,000	
PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other		% of Item BCCE 8% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% 8 7,772,000.00 2,914,000.00 5 - 5 - 5 - 5 - 5 - 5 -	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000 \$11,082,000 \$1,205,000 \$41,807,000 \$41,800,000 \$7,772,000 \$2,914,000 \$0 \$0 \$0 \$0 \$0 \$10 \$10,686,000 \$172,945,000	
PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other Other Other Other Risk ADJUSTMENTS Risk Item A Risk Item B Risk Item C Risk Adjustment Subtotal		% of Item BCCE 8% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% 8 7,772,000.00 2,914,000.00 5 - 5 - 5 - 5 - 5 - 5 -	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000 \$11,082,000 \$1,205,000 \$41,807,000 \$41,800,000 \$7,772,000 \$2,914,000 \$0 \$0 \$0 \$0 \$0 \$10 \$10,686,000 \$172,945,000	
PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other Other Other RISK ADJUSTMENTS RISK Item A RISK Item A RISK Item C RISK Adjustment Subtotal		% of Item BCCE 8% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% 8 7,772,000.00 2,914,000.00 5 - 5 - 5 - 5 - 5 - 5 -	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000 \$11,082,000 \$1,205,000 \$41,807,000 \$41,800,000 \$7,772,000 \$2,914,000 \$0 \$0 \$0 \$0 \$0 \$10 \$10,686,000 \$172,945,000	NOTES
PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANGE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other Other Other Other REXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS OTHER OTHER OTHER OTHER EXTERNAL COST ESTIMATE RISK ADJUSTMENTS RISK Item A RISK Item B RISK ITEM COST ESTIMATE RISK ADJUSTMENTS RISK ITEM COST ESTIMATE ESTIMATE UNCERTAINTY Uncertainty Item A		% of Item BCCE 8% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% 8 7,772,000.00 2,914,000.00 5 - 5 - 5 - 5 - 5 - 5 - 5 - 6 - 6 - 7 - 7 - 8 - 8 - 8 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000 \$11,082,000 \$1,205,000 \$41,807,000 \$41,800,000 \$7,772,000 \$2,914,000 \$0 \$0 \$0 \$0 \$0 \$10,686,000 \$172,945,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
SCOPE CHANGE ALLOWANCE ITEMS PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other Other Other Risk ADJUSTMENTS Risk Item B Risk Item B Risk Item C Risk Adjustment Subtotal ESTIMATE UNCERTAINTY Uncertainty Item A Uncertainty Item B		% of Item BCCE 8% of Item BCCE	24% 7.2% 5.4% 9.2% 10.4% 1.5% 1.0% 5. 7,772,000.00 2,914,000.00 5 5 5 5 5 5 5 5	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000 \$11,082,000 \$1,205,000 \$41,807,000 \$41,800,000 \$7,772,000 \$2,914,000 \$0 \$0 \$0 \$0 \$0 \$10,686,000 \$172,945,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
SCOPE CHANGE ALLOWANCE ITEMS PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Oth		% of Item BCCE 8% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% 8 7,772,000.00 2,914,000.00 5 - 5 - 5 - 5 - 5 - 5 - 5 - 6 - 6 - 7 - 7 - 8 - 8 - 8 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000 \$11,082,000 \$1,205,000 \$41,807,000 \$1,205,000 \$41,800,000 \$7,772,000 \$2,914,000 \$0 \$0 \$0 \$0 \$0 \$1 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
SCOPE CHANGE ALLOWANCE ITEMS PROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS TRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES JURISDICTIONAL TRANSFERS Other Other Other Other Other Other Other Risk ADJUSTMENTS Risk Item B Risk Item B Risk Item C Risk Adjustment Subtotal ESTIMATE UNCERTAINTY Uncertainty Item A Uncertainty Item B		% of Item BCCE 8% of Item BCCE	7.2% 5.4% 9.2% 10.4% 1.5% 1.0% 8 7,772,000.00 2,914,000.00 5 - 5 - 5 - 5 - 5 - 5 - 5 - 6 - 6 - 7 - 7 - 8 - 8 - 8 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	\$97,144,000 \$23,315,000 \$120,459,000 \$8,673,000 \$6,505,000 \$11,082,000 \$11,082,000 \$1,205,000 \$41,807,000 \$41,800,000 \$7,772,000 \$2,914,000 \$0 \$0 \$0 \$0 \$0 \$10,686,000 \$172,945,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES

Today: 8/20/19 9:50 AM

Project I.D. 1130-31-00 **Conceptual Cost Estimate** Highway US 41 SUMMARY **Project Title** US 41 Expansion (Winnebago, Outagamie, and Brown Counties) Version 2.0 **Project Limits** Segment 5: CTH E - CTH N (21,060 LF) MAINLINE ONLY **Project Type** Topography **Project Duration** Soil Type Multi **Current Year** Start Construction 2019 2048 Start Preliminary **End Construction** 2043 2052 Design **Project Scope** Alternative #: **Project Assumptions ITEM DESCRIPTION** UNIT QUANTITY **UNIT PRICE** Total NOTES MAJOR ROADWAY ITEMS Removing Pavement SY 272,974 5.00 \$1,365,000 Barrier Wall LF 76,281 110.00 \$8,391,000 Curb & Gutter LF 12,335 16.00 \$197,000 Earthwork \$4,324,000 Common CY 432,432 10.00 Marsh CY 10.00 \$0 10.00 Rock \$0 CY CY 10.00 Borrow \$0 10.00 EBS CY \$0 Signalized Intersections **EACH** 250,000,00 \$0 Pavement SY 179,028 45 00 \$8,056,000 Mainline System Ramps SY 28,151 45.00 \$1,267,000 Service Ramps SY 45.00 Cross Road SY 40.00 \$0 Frontage Roads SY 34,752 40.00 \$1,390,000 SY 30.00 Local Roads \$0 Mainline Shoulders 144,372 \$4,331,000 Assumed 5" depth SY 30.00 30.00 \$651,000 Assumed 5" depth Ramp Shoulders SY 21,693 Base SY 179.028 8.00 \$1,432,000 Mainline System Ramps SY 28,151 8.00 \$225,000 Service Ramps SY 8.00 \$0 Cross Road SY 8.00 \$0 Frontage Roads SY 34,752 8.00 \$278,000 SY 8.00 Local Roads Mainline Shoulders SY 144,372 8.00 \$1,155,000 Ramp Shoulders SY 21,693 8.00 \$174,000 ubbase Mainline SY 179,028 12.00 \$2,148,000 System Ramps SY 12.00 \$338,000 28,151 Service Ramps SY 12.00 \$0 Cross Road SY 10.00 \$0 Frontage Roads SY 34,752 10.00 \$348,000 SY Local Roads 10.00 \$0 \$1,732,000 Mainline Shoulders SY 144,372 12.00 Ramp Shoulders SY \$260,000 12.00 21,693 Major Roadway Subtotal (MRS) \$38,062,000 **ALLOWANCE ITEMS Certainty Factor** DRAINAGE % of MRS 11.4% \$4 344 000 EROSION CONTROL & RESTORATION % of MRS \$3.521.000 9.3% LIGHTING % of MRS 1.4% \$537,000 ROADWAY INCIDENTALS % of MRS 28.9% \$10,981,000 SIGNING/MARKING % of MRS 3.0% \$1,153,000 TRAFFIC CONTROL & STAGING % of MRS 4.8% \$1,833,000 ITS/ FTMS % of MRS 1.0% \$381,000 Allowance Subtotal \$22,750,000

Wisconsin Department of Transportation

STRUCTURES (see STRUCTURE tab)	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Bridge Removal	Insert	7		\$455,000	
New Bridge (Single Level Interchange)	SF		\$ 120.00	\$12,453,000	
New Bridge (Multi-level Interchange)	Insert	74,849	\$ 120.00	\$8,982,000	
Bridge Redecking	SF		\$ 70.00	\$0	
Bridge Widening	SF	-	\$ 140.00	\$0	
Retaining Wall Removal	Insert	- :	\$ -	\$0	
New Retaining Wall	SF	130,052	\$ 70.00	\$9,104,000	
Noise Wall Removal	Insert	- :	\$ 75,000.00	\$0	
New Noise Walls	SF		\$ 50.00	\$0	
New Box Culvert/Extension	Insert	850	\$ 2,300.00	\$1,955,000	
Sign Bridge - Cantilever	EACH	4	\$ 30,000.00	\$120,000	
Sign Bridge - Single Span	EACH		\$ 60,000.00	\$120,000	
MSE Walls	Insert		\$ -	\$0	
Secant Walls	Insert		\$ -	\$0	
Structure Incidentals	msert	% of Structures	10%	\$3,319,000	
Structure SubTotal				\$36,508,000	•
PECIAL 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		\$ -	\$0	
Other	Insert		\$ -	\$0	
Other	Insert		\$ -	\$0	
Other	Insert		\$ -	\$0	
Special Construction Elements Subtotal				\$0	•
Control of Print (COD)				\$97,320,000	•
Construction Costs Estimate (CCE)				\$97,320,000	<u> </u>
ONTEXT SENSITIVE SOLUTIONS (CSS) SS		% of Item CCE	5%	\$4,866,000	_
Base Construction Costs Estimate (BCCE)		70 or recin CCE	5 70	\$102,186,000	
ROJECT SCOPE INCREASE ALLOWANCE Estimated Const. Let Amount (ECLA)		% of Item BCCE	24%	\$24,525,000 \$126,711,000	
PROJECT DELIVERY ALLOWANCE ITEMS					-
RELIMINARY ENGINEERING		% of Item BCCE	7%	\$9,123,000	
INAL ENGINEERING ONSTRUCTION ENGINEERING		% of Item BCCE	5%	\$6,842,000	
		% of Item BCCE	9%	\$11,657,000	
ONST CHANGE ORDERS & CLAIMS		% of Item BCCE	10%	\$13,178,000	
RAFFIC MITIGATION		% of Item BCCE	2%	\$1,901,000	
UBLIC INVOLVEMENT Delivery Allowance Subtotal		% of Item BCCE	1%	\$1,267,000 \$43,968,000	-
				φ43,200,000	
		004 074 7 7 7 7	0.15-000	40.455	NOTES
EAL ESTATE		8% of Item BCCE		\$8,175,000	NOTES
EAL ESTATE OMPENSABLE UTILITIES		3% of Item BCCE	\$ 3,066,000.00	\$3,066,000	NOTES
EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS		3% of Item BCCE	\$ 3,066,000.00 \$ -	\$3,066,000 \$0	NOTES
EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther		3% of Item BCCE	\$ 3,066,000.00 \$ - \$ -	\$3,066,000 \$0 \$0	NOTES
EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther		3% of Item BCCE	\$ 3,066,000.00 \$ - \$ -	\$3,066,000 \$0 \$0 \$0 \$0	NOTES
EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther		3% of Item BCCE	3,066,000.00 \$ - \$ - \$ - \$ -	\$3,066,000 \$0 \$0 \$0 \$0 \$0	NOTES
EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther		3% of Item BCCE	\$ 3,066,000.00 \$ - \$ - \$ - \$ - \$ -	\$3,066,000 \$0 \$0 \$0 \$0 \$0	NOTES
EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther ther		3% of Item BCCE	3,066,000.00 \$ - \$ - \$ - \$ -	\$3,066,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther ther		3% of Item BCCE	\$ 3,066,000.00 \$ - \$ - \$ - \$ - \$ -	\$3,066,000 \$0 \$0 \$0 \$0 \$0	NOTES
EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther ther		3% of Item BCCE	\$ 3,066,000.00 \$ - \$ - \$ - \$ - \$ -	\$3,066,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther ther ther External Costs Subtotal Base Project Cost Estimate		3% of Item BCCE	\$ 3,066,000.00 \$ - \$ - \$ - \$ - \$ -	\$3,066,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther ther ther External Costs Subtotal Base Project Cost Estimate		3% of Item BCCE	\$ 3,066,000.00 \$ - \$ - \$ - \$ - \$ - \$ -	\$3,066,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther ther External Costs Subtotal Base Project Cost Estimate		3% of Item BCCE	\$ 3,066,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$3,066,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther ther ther ther External Costs Subtotal Base Project Cost Estimate ISK ADJUSTMENTS isk Item A isk Item B		3% of Item BCCE	\$ 3,066,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$3,066,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther ther ther External Costs Subtotal Base Project Cost Estimate ISK ADJUSTMENTS isk Item A isk Item B isk Item C		3% of Item BCCE	\$ 3,066,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$3,066,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther ther External Costs Subtotal Base Project Cost Estimate USK ADJUSTMENTS isk Item A isk Item B isk Item C Risk Adjustment Subtotal		3% of Item BCCE	\$ 3,066,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$3,066,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
Base Project Cost Estimate RISK ADJUSTMENTS isk Item A isk Item B isk Item C Risk Adjustment Subtotal		3% of Item BCCE	\$ 3,066,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$3,066,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther ther ther ther External Costs Subtotal Base Project Cost Estimate ISK ADJUSTMENTS isk Item A isk Item B isk Item C Risk Adjustment Subtotal STIMATE UNCERTAINTY ncertainty Item A		3% of Item BCCE	\$ 3,066,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$3,066,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther ther ther ther External Costs Subtotal Base Project Cost Estimate ISK ADJUSTMENTS isk Item A isk Item C Risk Adjustment Subtotal BTIMATE UNCERTAINTY incertainty Item A incertainty Item A incertainty Item A		3% of Item BCCE	\$ 3,066,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$3,066,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$11,241,000 \$181,920,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther ther ther External Costs Subtotal Base Project Cost Estimate ISK ADJUSTMENTS isk Item A isk Item C Risk Adjustment Subtotal STIMATE UNCERTAINTY ncertainty Item A ncertainty Item A ncertainty Item B incertainty Item C		3% of Item BCCE	\$ 3,066,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$3,066,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$11,241,000 \$181,920,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
EAL ESTATE DMPENSABLE UTILITIES IRISDICTIONAL TRANSFERS ther ther ther ther ther External Costs Subtotal Base Project Cost Estimate ISK ADJUSTMENTS sk Item A sk Item B sk Item C Risk Adjustment Subtotal BTIMATE UNCERTAINTY Incertainty Item A INCERTAINTY		3% of Item BCCE	\$ 3,066,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$3,066,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$11,241,000 \$181,920,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
EAL ESTATE OMPENSABLE UTILITIES URISDICTIONAL TRANSFERS ther ther ther ther ther External Costs Subtotal Base Project Cost Estimate ISK ADJUSTMENTS isk Item A isk Item C Risk Adjustment Subtotal STIMATE UNCERTAINTY ncertainty Item A ncertainty Item A ncertainty Item B incertainty Item C		3% of Item BCCE	\$ 3,066,000.00 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$3,066,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$11,241,000 \$181,920,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES

Wisconsin Department of Transportation Today: 8/20/19 9:51 AM Project I.D. 1130-31-00 **Conceptual Cost Estimate** Highway US 41 **SUMMARY Project Title** JS 41 Expansion (Winnebago, Outagamie, and Brown Counties Version 2.0 **Project Limits** Segment 6: CTH N - E Line Rd (15,590 LF) MAINLINE ONLY **Project Type** Topography **Project Duration** Soil Type Multi Start **Current Year** 2019 Construction 2048 **Start Preliminary End Construction** 2043 2052 Design Alternative #: **Project Scope Project Assumptions** ITEM DESCRIPTION
MAJOR ROADWAY ITEMS QUANTITY UNIT PRICE UNIT Total NOTES **Bid Expre** Removing Pavement SY 160,582 5.00 \$803,000 Barrier Wall 33,337 110.00 \$3,667,000 Curb & Gutter 16.00 Earthwork Common CY 241,251 10.00 \$2,413,000 CY Marsh 10.00 \$0 Rock CY 10.00 \$0 10.00 Borrow CY \$0 EBS 10.00 \$0 CY Signalized Intersections EACH 250,000.00 \$0 Pavement SY 133,701 \$6,017,000 Mainline 45.00 System Ramps \$214,000 SY 4,759 45.00 Service Ramps 45.00 SY \$0 Cross Road SY 40.00 \$0 Frontage Roads SY 40.00 \$0 Local Roads SY 30.00 \$0 Assumed 5" depth Mainline Shoulders SY 99,331 30.00 \$2,980,000 Ramp Shoulders SY 30.00 Assumed 5" depth 133,701 \$1,070,000 Mainline SY 8.00 System Ramps SY 4,759 8.00 \$38,000 Service Ramps SY 8.00 \$0 Cross Road SY 8.00 \$0 Frontage Roads SY 8.00 \$0 Local Roads 8.00 Mainline Shoulders SY 99,331 8.00 \$795,000 Ramp Shoulders SY 8.00 \$0 Subbase Mainline SY 133,701 12.00 \$1,604,000 System Ramps SY 4,759 12.00 \$57,000 Service Ramps SY 12.00 \$0 Cross Road SY 10.00 \$0 Frontage Roads SY 10.00 \$0 SY 10.00 Local Roads Mainline Shoulders SY 99,331 12.00 \$1,192,000 Ramp Shoulders SY Major Roadway Subtotal (MRS) \$20,850,000 ALLOWANCE ITEM **Certainty Factor** DRAINAGE % of MRS 11.4% \$2,380,000 EROSION CONTROL & RESTORATION \$1,929,000 % of MRS 9.3% % of MRS LIGHTING 1.4% \$294,000 ROADWAY INCIDENTALS % of MRS \$6,015,000 28.9% SIGNING/MARKING % of MRS 3.0% \$632,000 TRAFFIC CONTROL & STAGING % of MRS 4.8% \$1,004,000 ITS/FTMS % of MRS 1.0% \$209,000

Allowance Subtotal

\$12,463,000

STRUCTURES (see STRUCTURE tab)	UNIT	QUANTITY	UNI	T PRICE	Total	NOTES
Bridge Removal	Insert		\$	65,000.00	\$390,000	
New Bridge (Single Level Interchange)	SF		\$	120.00	\$5,637,000	
New Bridge (Multi-level Interchange)	Insert	40,777	\$	120.00	\$0	
Bridge Redecking	SF		\$	70.00	\$0 \$0	
Bridge Widening	SF		\$	140.00	\$0	
Retaining Wall Removal	Insert		\$	140.00	\$0	
New Retaining Wall	SF	-	\$	70.00	\$0 \$0	
Noise Wall Removal	Insert	-	\$	75,000.00	\$0	
New Noise Walls	SF	-	\$	50.00	\$0 \$0	
New Box Culvert/Extension		-	\$	2,300.00	\$0 \$0	
	Insert EACH	-	\$	30,000.00	\$0 \$0	
Sign Bridge - Cantilever		-				
Sign Bridge - Single Span	EACH	-	\$	60,000.00	\$0	
MSE Walls	Insert	-	\$	-	\$0	
Secant Walls	Insert	-	\$		\$0	
Structure Incidentals		% of Structures		10%	\$603,000	
Structure SubTotal					\$6,630,000	
Structure Sub I otal					\$0,030,000	
SPECIAL CONSTRUCTION ELEMENTS	UNIT	QUANTITY	UNI	T PRICE	Total	NOTES
Temporary Bridges	Insert	-	\$	_	\$0	
Temporary Roadways	Insert	_	\$	_	\$0	
Environment Mitigation	Insert		\$	_	\$0	
Community Sensitive Design	Insert		\$		\$0	
Hazardous Materials	Insert		\$		\$0 \$0	
Bypass / Alternate Routes	Insert		\$		\$0 \$0	
Other	Insert		\$		\$0 \$0	
Other	Insert		\$		\$0 \$0	
Other	Insert		\$		\$0 \$0	
Other	Insert		\$		\$0 \$0	
	moort		Ψ		ΨΟ	
Special Construction Elements Subtotal					\$0	
						I
Construction Costs Estimate (CCE)					\$39,943,000	l
CONTEXT SENSITIVE SOLUTIONS (CSS)						
CSS		% of Item CCE		5%	\$1,997,000	
Base Construction Costs Estimate (BCCE)					\$41,940,000	
SCOPE CHANGE ALLOWANCE ITEMS						
PROJECT SCOPE INCREASE ALLOWANCE		% of Item BCCE		24%	\$10,066,000	
Estimated Const. Let Amount (ECLA)					\$52,006.000	
Estimated Const. Let Amount (ECLA)					\$52,006,000	
Estimated Const. Let Amount (ECLA) PROJECT DELIVERY ALLOWANCE ITEMS					\$52,006,000	
PROJECT DELIVERY ALLOWANCE ITEMS		% of Item BCCE		7.2%		
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING		% of Item BCCE		7.2%	\$3,744,000	
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING		% of Item BCCE		5.4%	\$3,744,000 \$2,808,000	
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING		% of Item BCCE % of Item BCCE		5.4% 9.2%	\$3,744,000 \$2,808,000 \$4,785,000	
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS		% of Item BCCE % of Item BCCE % of Item BCCE	1	5.4% 9.2% 0.4%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000	
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION		% of Item BCCE % of Item BCCE % of Item BCCE % of Item BCCE	1	5.4% 9.2% 0.4% 1.5%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000	
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION PUBLIC INVOLVEMENT		% of Item BCCE % of Item BCCE % of Item BCCE	1	5.4% 9.2% 0.4%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$520,000	
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION		% of Item BCCE % of Item BCCE % of Item BCCE % of Item BCCE	1	5.4% 9.2% 0.4% 1.5%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000	
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal		% of Item BCCE % of Item BCCE % of Item BCCE % of Item BCCE	1	5.4% 9.2% 0.4% 1.5%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$520,000	NOTES
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS		% of Item BCCE % of Item BCCE % of Item BCCE % of Item BCCE % of Item BCCE	1	5.4% 9.2% 0.4% 1.5%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$520,000	NOTES
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE		% of Item BCCE 8% of Item BCCE	\$ 3	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$520,000 \$18,046,000	NOTES
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES		% of Item BCCE 8% of Item BCCE	\$ 3	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$18,046,000 \$3,355,000 \$1,258,000	NOTES
PROJECT DELIVERY ALLOWANGE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS PRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES FURISDICTIONAL TRANSFERS		% of Item BCCE 8% of Item BCCE	\$ 3 1 5	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$18,046,000 \$13,355,000 \$1,258,000 \$0	NOTES
PROJECT DELIVERY ALLOWANGE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS PRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES IURISDICTIONAL TRANSFERS Other		% of Item BCCE 8% of Item BCCE	\$ 3 \$ 1 \$ \$	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$18,046,000 \$3,355,000 \$1,258,000 \$0	NOTES
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES FURISDICTIONAL TRANSFERS Other Other		% of Item BCCE 8% of Item BCCE	\$ 3 \$ 1 \$ \$ \$ \$	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$18,046,000 \$3,355,000 \$1,258,000 \$0 \$0	NOTES
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL GOSTS REAL ESTATE COMPENSABLE UTILITIES FURISDICTIONAL TRANSFERS Other Other Other		% of Item BCCE 8% of Item BCCE	\$ 3 \$ 1 \$ \$ \$ \$ \$ \$	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$520,000 \$13,046,000 \$1,258,000 \$0 \$0	NOTES
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES URISDICTIONAL TRANSFERS Other Other Other Other		% of Item BCCE 8% of Item BCCE	\$ 3 \$ 1 \$ \$ \$ \$ \$	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$520,000 \$18,046,000 \$3,355,000 \$1,258,000 \$0 \$0 \$0	NOTES
PROJECT DELIVERY ALLOWANGE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS PRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES URISDICTIONAL TRANSFERS Other Other Other Other		% of Item BCCE 8% of Item BCCE	\$ 3 \$ 1 \$ \$ \$ \$ \$ \$	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$18,046,000 \$3,355,000 \$1,258,000 \$0 \$0 \$0 \$0	NOTES
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES FURISDICTIONAL TRANSFERS Other Other Other Other		% of Item BCCE 8% of Item BCCE	\$ 3 \$ 1 \$ \$ \$ \$ \$	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$520,000 \$18,046,000 \$3,355,000 \$1,258,000 \$0 \$0 \$0	NOTES
PROJECT DELIVERY ALLOWANGE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS PRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES URISDICTIONAL TRANSFERS Other Other Other Other		% of Item BCCE 8% of Item BCCE	\$ 3 \$ 1 \$ \$ \$ \$ \$	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$18,046,000 \$3,355,000 \$1,258,000 \$0 \$0 \$0 \$0	NOTES
PROJECT DELIVERY ALLOWANGE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS PRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES FURISDICTIONAL TRANSFERS Other		% of Item BCCE 8% of Item BCCE	\$ 3 \$ 1 \$ \$ \$ \$ \$	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$12,000 \$118,046,000 \$3,355,000 \$1,258,000 \$0 \$0 \$0 \$0 \$0 \$0 \$4,613,000	
PROJECT DELIVERY ALLOWANGE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES FURISDICTIONAL TRANSFERS Other		% of Item BCCE 8% of Item BCCE	\$ 3 \$ 1 \$ \$ \$ \$ \$	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$12,000 \$118,046,000 \$1,258,000 \$0 \$0 \$0 \$0 \$0 \$0 \$4,613,000	NOTES
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES FURISDICTIONAL TRANSFERS Other Other Other Other Other Other Other Other External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A		% of Item BCCE 8% of Item BCCE	\$ 3 \$ 1 \$ \$ \$ \$ \$	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$12,000 \$118,046,000 \$1,258,000 \$0 \$0 \$0 \$0 \$0 \$0 \$4,613,000	
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES FURISDICTIONAL TRANSFERS Other Other Other Other Other Other Other Other Other External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A		% of Item BCCE 8% of Item BCCE	\$ 3 \$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$18,046,000 \$11,258,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,4613,000	
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES FURISDICTIONAL TRANSFERS Other Other Other Other Other External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS RISK ITEMS		% of Item BCCE 8% of Item BCCE	\$ 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$18,046,000 \$11,258,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES FURISDICTIONAL TRANSFERS Other Other Other Other Other Other External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS RISK tem A RISK IEM B		% of Item BCCE 8% of Item BCCE	\$ 3 \$ 1 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$120,000 \$18,046,000 \$3,355,000 \$0 \$0 \$0 \$0 \$0 \$0 \$1,258,000 \$0 \$0 \$0 \$0 \$0 \$1,401,000	
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES FURISDICTIONAL TRANSFERS Other O		% of Item BCCE 8% of Item BCCE	\$ 3 \$ 1 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$18,046,000 \$11,258,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES FURISDICTIONAL TRANSFERS Other Other Other Other Other Other Other REXERNAL COSTS External Costs Subtotal Base Project Cost Estimate RISK ADJUSTMENTS Risk Item A Risk Item A Risk Item C Risk Adjustment Subtotal		% of Item BCCE 8% of Item BCCE	\$ 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$18,046,000 \$1,258,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES FURISDICTIONAL TRANSFERS Other Other Other Other Other Other REXTERNAL COSTS Risk ADJUSTMENTS Risk Item A Risk Item B Risk Item C Risk Adjustment Subtotal ESTIMATE UNCERTAINTY Jncertainty Item A		% of Item BCCE 8% of Item BCCE	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$125,000 \$118,046,000 \$1,258,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,4613,000 \$74,665,000	NOTES
PROJECT DELIVERY ALLOWANGE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS PRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES FURISDICTIONAL TRANSFERS Other		% of Item BCCE 8% of Item BCCE	\$ 3 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$18,046,000 \$11,258,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES FURISDICTIONAL TRANSFERS Other		% of Item BCCE 8% of Item BCCE	\$ 3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$18,046,000 \$11,258,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
PROJECT DELIVERY ALLOWANGE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS PRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES FURISDICTIONAL TRANSFERS Other		% of Item BCCE 8% of Item BCCE	\$ 3 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$18,046,000 \$11,258,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES
PROJECT DELIVERY ALLOWANCE ITEMS PRELIMINARY ENGINEERING FINAL ENGINEERING CONSTRUCTION ENGINEERING CONST CHANGE ORDERS & CLAIMS FRAFFIC MITIGATION PUBLIC INVOLVEMENT Delivery Allowance Subtotal EXTERNAL COSTS REAL ESTATE COMPENSABLE UTILITIES FURISDICTIONAL TRANSFERS Other		% of Item BCCE 8% of Item BCCE	\$ 3 1 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5.4% 9.2% 0.4% 1.5% 1.0%	\$3,744,000 \$2,808,000 \$4,785,000 \$5,409,000 \$780,000 \$18,046,000 \$11,258,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	NOTES

Today: 8/30/19 9:33 AM

Project I.D. 1130-31-00 **Conceptual Cost Estimate** Highway US 41 **SUMMARY** Project Title JS 41 Expansion (Winnebago, Outagamie, and Brown Counties Version 2.0 **Project Limits** Segment 7: CTH J - Orange Lane (54,595 LF) Mainline only **Project Type** Urban Topography Moderate **Project Duration** Soil Type Coarse-grair 🔻 Multi **Current Year Start Construction** 2019 2048 **Start Preliminary End Construction** 2043 2052 Design Alternative #: Planning Study ITEM DESCRIPTION UNIT QUANTITY **UNIT PRICE** Total NOTES **MAJOR ROADWAY ITEMS** Removing Pavement SY 505,991 \$ 5.00 \$2,530,000 Barrier Wall LF 177,051 \$ 110.00 \$19,476,000 Curb & Gutter LF 16.00 \$0 Sidewalk SY 624 20.00 \$12,000 Earthwork \$7,451,000 CY 745,145 10.00 Common \$ Marsh CY 10.00 \$0 10.00 Rock CY \$0 \$ Borrow CY 10.00 \$0 CY \$0 10.00 Signalized Intersections **EACH** 250,000.00 \$0 **Pavement** \$20,952,000 45.00 Mainline SY 465,591 SY System Ramps 45.00 \$0 Service Ramps SY 45.00 \$0 Cross Road SY 2,700 40.00 \$108,000 Frontage Roads SY 40.00 \$0 Local Roads SY 30.00 \$0 Mainline Shoulders SY 236,914 30.00 \$7,107,000 Assumed 5" depth Ramp Shoulders SY 30.00 \$0 Assumed 5" depth SY 465,591 \$3,725,000 Mainline 8.00 System Ramps SY 8.00 \$0 Service Ramps SY 8.00 \$0 Cross Road SY 2,700 8.00 \$22,000 Frontage Roads SY 8.00 \$0 SY Local Roads 8.00 \$0 Mainline Shoulders SY 236,914 8.00 \$1,895,000 Ramp Shoulders SY 8.00 Subbase Mainline SY 465,591 \$ 12.00 \$5,587,000 System Ramps SY 12.00 \$0 \$ Service Ramps SY 12.00 \$0 Cross Road SY 10.00 \$0 Frontage Roads SY 10.00 \$0 Local Roads SY 10.00 \$0 Mainline Shoulders \$2,843,000 SY 236,914 12.00 Ramp Shoulders SY 12.00 \$0 Major Roadway Subtotal (MRS) \$71,708,000 **ALLOWANCE ITEMS Certainty Factor** DRAINAGE % of MRS 11.4% \$8,185,000 **EROSION CONTROL & RESTORATION** % of MRS 9.3% \$6,633,000 % of MRS 1.4% LIGHTING \$1,012,000 ROADWAY INCIDENTALS % of MRS 28.9% \$20,689,000 SIGNING/MARKING % of MRS 3.0% \$2,172,000 TRAFFIC CONTROL & STAGING % of MRS 4.8% \$3,452,000 ITS/FTMS % of MRS 1.0% \$717,000

Wisconsin Department of Transportation

Allowance Subtotal				\$42,860,000	l
STRUCTURES (see STRUCTURE tab)	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Bridge Removal	EACH	10 5		\$650,000	
New Bridge (Single Level Interchange)	SF	115,644		\$13,877,000	
Bridge Redecking	SF	- 8		\$0	
Bridge Widening	SF	- 8		\$0	
New Retaining Wall	SF	- 3		\$0	
Noise Wall Removal	EACH	- 8		\$0	
New Noise Walls	SF	- 8		\$0	
New Box Culvert/Extension	LF	- 8		\$0	
Sign Bridge - Cantilever	EACH	- 9		\$0 \$0	
Sign Bridge - Cartillever Sign Bridge - Single Span	EACH	- 4	/	\$0 \$0	
Structure Incidentals	EACH		,	\$1,453,000	
Structure incluentals		% of Structures	10%	\$1,433,000	
Structure SubTotal				\$15,980,000	
SPECIAL CONSTRUCTION ELEMENTS	UNIT	QUANTITY	UNIT PRICE	Total	NOTES
Temporary Bridges	Insert	- :	-	\$0	
Temporary Roadways	Insert		-	\$0	
Environment Mitigation	Insert	- 5	-	\$0	
Community Sensitive Design	Insert	- 5	-	\$0	
Hazardous Materials	Insert		-	\$0	
Bypass / Alternate Routes	Insert		-	\$0	
Other	Insert		-	\$0	
Other	Insert	- 5	-	\$0	
Other	Insert	- 5	-	\$0	
Other	Insert	- :	-	\$0	
Special Construction Elements Subtotal				\$0	
Construction Costs Estimate (CCE)				\$130,548,000	
CONTEXT SENSITIVE SOLUTIONS (CSS)					1
CSS		% of Item CCE	5%	\$6,527,000	
Base Construction Costs Estimate (BCCE)				\$137,075,000	
SCOPE CHANGE ALLOWANCE ITEMS					Ī
PROJECT SCOPE INCREASE ALLOWANCE		% of Item BCCE	24%	\$32,898,000	
Estimated Const. Let Amount (ECLA)				\$169,973,000	
Zonimica Construction (2021)				\$103,375,000	
PROJECT DELIVERY ALLOWANCE ITEMS					
PRELIMINARY ENGINEERING		% of Item BCCE	7.2%	\$12,238,000	
FINAL ENGINEERING		% of Item BCCE	5.4%	\$9,179,000	
CONSTRUCTION ENGINEERING		% of Item BCCE	9.2%	\$15,638,000	
CONST CHANGE ORDERS & CLAIMS		% of Item BCCE	10.4%	\$17,677,000	
TRAFFIC MITIGATION		% of Item BCCE	1.5%	\$2,550,000	
PUBLIC INVOLVEMENT		% of Item BCCE	1.0%	\$1,700,000	
Delivery Allowance Subtotal				\$58,982,000	
EXTERNAL COSTS					NOTES
REAL ESTATE		8% of Item BCCE	10,966,000.00	\$10,966,000	7.20
COMPENSABLE UTILITIES		3% of Item BCCE	1 1	\$4,112,000	
JURISDICTIONAL TRANSFERS			\$ 4,112,000.00	\$4,112,000	
Other Other			-	\$0 \$0	
Other			-	\$0	
Other			-	\$0	
Other Other			5 - 5 -	\$0 \$0	
External Costs Subtotal				\$15,078,000	İ
Base Project Cost Estimate				\$244,033,000	
Rayrian Wall Cost Estimate (Ontional Not Incl. 1.1)		37 090 LE		\$12.192.000	
Barrier Wall Cost Estimate (Optional - Not Included)		37,080 LF		\$12,182,000	l e

	Mainline Segment Limits /		IH 4	1 & WIS 441 Shortterm	Cost	IH 4	1 / WIS 441 Longterm (Cost		
Segment	Interchanges Location	Representative Conceptual Improvement	2012 Study *	2019 Update **	Increase	2012 Study *	2019 Update **	Increase	Exhibit No.	Discussion
	MAINLINE IH 41 North of Breezewood Lane to South of County BB	Longterm improvement: Reconstruction to 8 lanes from Breezewood to US 10/WIS 441			-	\$206,400,000	N/A	N/A		Segment 1 is not subject to re-evaluation at this time.
	WIS 114/County JJ (Winneconne Avenue) Interchange	Short-term improvement (Alternative 1): Merge and diverge ramp improvements	\$616,000	N/A	N/A		-			
	WIS 114/County JJ (Winneconne Avenue) Interchange	Long-term improvement (Alternative 4): Traditional signalized intersections			-	\$13,583,000	N/A	N/A		
Segment 1	Oakridge Road/Main Street Interchange	Short-term improvement (Alternative 1): Partial implementation of ramp terminal intersection improvements	\$167,000	N/A	N/A		-			
	Oakridge Road/Main Street Interchange	Long-term improvement (Alternative 5): Reconstruction with wider roadway median			-	\$7,950,000	N/A	N/A		
	County II (Winchester Road) Interchange	Long-term improvement (Alternative 4): Reconstruction with roundabout intersection improvements			-	\$11,852,000	N/A	N/A		
	MAINLINE IH 41	Long-term improvement: Reconstruction to 8 lanes from South of County BB thru WIS 96				\$91,203,000	\$110,648,000	21% ↑		2019 update includes new unit costs
	South of County BB to North of WIS 96 Structures	Long-term improvement. Reconstruction to 8 lanes from South of County BB tillu Wis 90			-	351,203,000	3110,048,000	21/0		2013 update includes new unit costs
	County BB (West Prospect Avenue) Interchange	Short-term improvement (Alternative 1): Extended on-ramp acceleration lanes	\$276,000	N/A	N/A					2019 study removes the need for short term improvements at the County BB interchange.
Segment 2	County BB (West Prospect Avenue) Interchange	Long-term improvement (Alternative 6): Reconstruction with roundabout intersection improvements			-	\$15,367,000	\$18,867,000	23% ↑		2019 update includes new unit costs
	WIS 125 (West College Avenue) Interchange	Long-term improvement (Alternative 4): Traditional signalized intersections			-	\$40,127,000	\$46,724,000	16% ↑		2019 update includes new unit costs
	WIS 96 (West Wisconsin Avenue) Interchange	Short Term Improvement		\$1,197,000	N/A		-			2019 update includes new unit costs, additional NB offramp right turn lane, additional SB offramp right turn lane, and additional WB thru lane.
	WIS 96 (West Wisconsin Avenue) Interchange	Long-term improvement (Alternative 4): Traditional signalized intersections			-	\$21,276,000	\$26,408,000	24% ↑		2019 update includes new unit costs and added an additional WB to SB left turn lane and EB to NB left turn
	MAINLINE IH 41									lane onto the IH-41 on-ramps.
Segment 3	North of WIS 96 Structures to South of WIS 15 Structures MAINLINE IH 41	Long-term improvement: Reconstruction to 8 lanes from WIS 96 to WIS 15			-	\$35,502,000	\$43,943,000	24% ↑		2019 update includes new unit costs 2019 update includes new unit costs, addition of a second CD lane WB between WIS 47 and CTH E, and
	South of WIS 15 Structures to West of County E	Long-term improvement: Reconstruction to 6 lanes from WIS 15 to County E			-	\$133,582,000	\$172,945,000	29% ↑		widening of the bridge over WIS 47 due to additional NB left turn lane.
54	WIS 15/County OO (West Northland Avenue) Interchange	Short-term improvement (Alternative 1): Off-ramp improvements	\$321,000	\$1,093,000	240% ↑					2019 geometric improvements align with separate study completed in 2018. Differences in comparrison to the original 2012 study include: additional EB to NB left turn lane and re-building the NB onramp accepting lanes, lengthing WB to NB right turn lane, adding a third WB thru lane across the WIS15 bridge, and extendir the NB onramp merge lane.
Segment 4	WIS 15/County OO (West Northland Avenue) Interchange	Long-term improvement (Alternative 6): Traditional signalized intersections with high efficiency intersection at WIS 15/Casaloma Drive Intersection.			-	\$52,365,000	\$61,447,000	17% ↑		2019 update includes new unit costs
	WIS 47 (Richmond Street) Interchange	Short Term Improvement Long-term improvement: Interchange planned for construction in 2013. Minor lump sum		\$463,000	N/A		-			2019 update includes new unit costs and extension of SB onramp lane. 2019 update includes new unit costs, bridge replacement, and reduced roadway units due to recent
	WIS 47 (Richmond Street) Interchange	rehabilitation cost included.		-	-	\$10,000,000	\$6,812,000	-32% ↓		interchange reconstruction.
	MAINLINE IH 41 West of County E to West of County N (Includes US41/WIS 441 North System Interchange) & WIS 441: Fox River Bridge to IH 41	Long-term improvement: Reconstruction to 6 lanes from WIS E to County N with new system flyover interchange configuration with IH 41 SB C-D Road improvements		-	-	\$147,938,000	\$181,920,000	23% ↑		2019 update includes new unit costs and 1/2 mile extension of a second CD lane WB east of the 41/441 interchange.
	County E (Ballard Road) Interchange	Short-term improvement (Alternative 2): Off-ramp improvements with deceleration lanes. Look ahead left turn lanes along County E NB and SB.	\$702,000	\$1,441,000	105% ↑					2019 update includes new unit costs, additional pavement replacement for the NB offramp, added quantity of concrete barrier wall, and added quantity of beamguard to protect steep slopes.
Segment 5	County E (Ballard Road) Interchange	Long-term improvement (Alternative 5): Traditional signalized intersections with additional capacity along County E from Capitol Drive to West Evergreen Drive			-	\$29,405,000	\$35,116,000	19% ↑		2019 update includes new unit costs
	WIS 441/County OO (East Northland Avenue) Interchange	Short-term improvement (Alternative 1): Improve off-ramps	\$603,000	N/A	N/A					2019 study does not include this interchange at WIS441
	WIS 441/County OO (East Northland Avenue) Interchange	Long-term improvement (Alternative 7): Provide WIS 441 NB on-ramp access from County OO as a loop ramp in the SE quadrant and WIS 441 NB off-ramp connection to County OO near French Road. Relocate French Road intersection further to the east on County OO.			-	\$28,279,000	N/A	N/A		2019 study does not include this interchange
	MAINLINE IH 41 West of County N to West of County J	Long-term improvement: Reconstruction to 6 lanes from County N to County J				\$59,417,000	\$74,665,000	26% ↑		2019 update includes new unit costs
	County N (Freedom Road) Interchange	Short-term improvement (Alternative 1): Improve on-ramp acceleration length	\$699,000	\$924,000	32% ↑	-	-			2019 update includes new unit costs and extending an existing box culvert adjacent to the SB onramp
Segment 6	County N (Freedom Road) Interchange	Long-term improvement (Alternative 4): Traditional signalized intersections.		_	_	\$14,987,000	\$18,098,000	21% ↑		2019 update includes new unit costs
	WIS 55 (Delanglade Street) Interchange	Long-term improvement: Interchange planned for construction in 2013. Minor lump sum				\$10,000,000	\$12,500,000	25% ↑		2019 update includes new unit costs
	MAINLINE IH 41	rehabilitation cost included.		-	-					·
	West of County J to Orange Lane	Long-term improvement: Reconstruction to 6 lanes from County J to Orange Lane				\$182,717,000	\$244,033,000	34% ↑		2019 update includes new unit costs
	MAINLINE IH 41 West of County J to Orange Lane	Long-term improvement optional barrier costs (Not included in base cost)			-	\$0	\$12,182,000	N/A		2019 update includes optional costs for additional barrier wall not included in base cost.
	County J (Lawe Street) Interchange	Long-term improvement: Interchange recently constructed. Minor lump sum rehabilitation cost included.			-	\$4,880,000	\$6,169,000	26% ↑		2019 update includes new unit costs and addition of SB to WB and EB to SB ramp partial bypass lanes aroun the roundabout.
Segment 7	County U (South County Line Road) Interchange	Long-term improvement (Alternative 2): Add weight in motion interface and other vehicle identification equipment. Add acceleration lane from weigh station on IH 41 NB. Complete street improvement along County (-	\$3,034,000	\$3,615,000	19% 个		2019 update includes new unit costs
	County S (Freedom Road) Interchange	Short-term improvement (Alternative 2): Improve off-ramps along with County S turn lane	\$706,000	\$1,189,000	68% ↑	-				2019 update includes unit cost adjustment and adding guardrail to protect existing slopes
	County S (Freedom Road) Interchange	improvements Long-term improvement (Alternative 4): Relocate frontage roads from ramp locations to improve				\$10,117,000	\$11,996,000	19% ↑		2019 update includes new unit costs
	MAINLINE WIS 441 East of US 10 to South of US41/WIS 441 North System Interchange	intersection spacing. Widen County S structures and roadway. Long-term improvement: Reconstruction to 6 lanes from US 10 to IH 41/WIS 441 North System Interchange			-	\$198,739,000	N/A	N/A		Segment 8 is not subject to re-evaluation at this time.
Segment 8	County KK Interchange	Long-term improvement (Alternative 7): Traditional signalized intersections.		-	-	\$27,543,000				
	County CE Interchange	Long-term improvement (Alternative 5): Traditional signalized intersections.				\$18,113,000				
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Total	Long Term Improvements comparing all recommendations from the 2012 Includes 50 costs associated with 2019 updated recommendation at Countincludes 50 costs associated with Segments 1 & 8 which are outside the pr Does not include optional costs for concrete barrier on Mainline IH 41 from	ty OO. roject study limits with the 2019 update.			-	\$1,374,376,000	\$1,075,906,000	-22% ↓		
Total	Long Term Improvements comparing total costs for only those interchange Excludes costs for County OO and mainline segments 1 & 8. Does not include optional costs for concrete barrier on Mainline IH 41 fror				-	\$861,917,000	\$1,075,906,000	25% ↑		
Total	Short Term Improvements comparing all recommendations from the 2012 Includes SO costs associated with 2019 updated recomendations at Count includes SO costs associated with County JJ and Oakridge Interchanges whi Includes S1,197,000 associated with WIS 96 interchange for 2019 update.	2 study with the updated recommendations with the 2019 study. 1y BB and County OO I ch are outside the project study limits with the 2019 update	\$4,090,000	\$6,307,000	54% ↑		-			
Total	Short Term Improvements comparing total costs for only those interchange of 20 pulse. Short Term Improvements comparing total costs for only those interchang County OO, WIS 47, County E, County N, & County S Does not include WIS 96 costs from 2019 update as this interchange did no Unit cost adjustments account for approximately 30 percent of the cost in	ges identified with the 2019 study ot have any improvements included in 2012 study.	\$2,428,000	\$5,110,000	110% ↑		-			
	e in 2013 dollars and not adjusted for inflation re in 2019 dollars and not adjusted for inflation								_	

^{*} Project costs shown are in 2013 dollars and not adjusted for inflation
** Project costs shown are in 2019 dollars and not adjusted for inflation