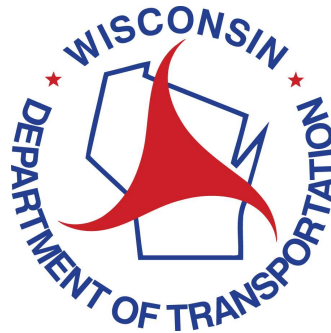




**Wisconsin Department of Transportation
Detail Cost Estimate**

Project ID: 9200-10-71

Project Description: Shawano - Green Bay, CTH VV Interchange

Spec Book: 03

Date Printed: 1/24/2020

Federal Project Number: WISC

State Project Number: 9200-10-71



Detail Estimate Cost Summary

Page 1 of 1

Project ID: 9200-10-71

Project Description: Shawano - Green Bay, CTH VV Interchange

Fund Package			Total Fund Package Cost	E&C Amount	Total	Funding Limit	Funding
Fund	FED	Federal Funding					
Package	0010		11,475,259.59	1,349,490.52	12,824,750.11		12,824,750.11
Package	0020		1,121,674.96	131,908.98	1,253,583.94		1,253,583.94
Fund	FED	Totals	\$12,596,934.55	\$1,481,399.50	\$14,078,334.05		\$14,078,334.05
Fund	CNTY	Brown County					
Package	0010		4,687,077.86	551,200.36	5,238,278.22		5,238,278.22
Package	0020		458,148.94	53,878.31	512,027.25		512,027.25
Package	0030		76,000.00	8,937.60	84,937.60		84,937.60
Fund	CNTY	Totals	\$5,221,226.80	\$614,016.27	\$5,835,243.07		\$5,835,243.07
Project Total 9200-10-71			\$17,818,161.35	\$2,095,415.77	\$19,913,577.12		\$19,913,577.12



Detail Cost Estimate

Project ID: 9200-10-71

Federal Project No.: WISC

Project Description: Shawano - Green Bay, CTH VV Interchange

Category: 0010

Roadway Items

Funding Source(s) and Participation:

1 CNTY Brown County
1 FED Federal Funding

29.00%

0.00

71.00%

0.00

Category Work Class: RDCN

Roadway Construction

Fed Work Category: 01

New Construction Roadway

Category Length: 1.9000 MILES

Fed Construction Class: LET

Let Project Items

Category Width: 35.0000 FEET

Line No.	Item Number	Item Description	Units	Estimated Qty	Unit Price	Amount
0002	201.0105	Clearing	STA	46.000	400.00000	18,400.00
0004	201.0120	Clearing	ID	144.000	20.00000	2,880.00
0006	201.0205	Grubbing	STA	46.000	300.00000	13,800.00
0008	201.0220	Grubbing	ID	144.000	15.00000	2,160.00
0010	203.0100	Removing Small Pipe Culverts	EACH	27.000	425.00000	11,475.00
0012	204.0100	Removing Pavement	SY	1,615.000	4.00000	6,460.00
0014	204.0130	Removing Curb	LF	560.000	2.50000	1,400.00
0016	204.0150	Removing Curb & Gutter	LF	3,562.000	2.50000	8,905.00
0018	204.0155	Removing Concrete Sidewalk	SY	2,725.000	3.75000	10,218.75
0020	204.0165	Removing Guardrail	LF	325.000	3.00000	975.00
0022	204.0170	Removing Fence	LF	495.000	2.50000	1,237.50
0024	204.0180	Removing Delineators and Markers	EACH	15.000	21.00000	315.00
0026	204.0195	Removing Concrete Bases	EACH	9.000	165.00000	1,485.00
0028	204.0210	Removing Manholes	EACH	2.000	730.00000	1,460.00
0030	204.0220	Removing Inlets	EACH	9.000	310.00000	2,790.00
0032	204.0245	Removing Storm Sewer (size) 01. 12-INCH	LF	156.000	18.00000	2,808.00
0034	204.0245	Removing Storm Sewer (size) 02. 18-INCH	LF	834.000	24.00000	20,016.00
0036	204.0245	Removing Storm Sewer (size) 03. 24-INCH	LF	70.000	30.00000	2,100.00
0038	204.0245	Removing Storm Sewer (size) 04. 30-INCH	LF	42.000	36.00000	1,512.00
0040	204.9060.S	Removing (item description) 01. Apron Endwalls	EACH	8.000	200.00000	1,600.00
0042	204.9060.S	Removing (item description) 02. Underdrain Apron Endwalls	EACH	7.000	150.00000	1,050.00
0044	205.0100	Excavation Common	CY	138,000.000	8.00000	1,104,000.00
0046	208.0100	Borrow	CY	519,575.000	6.00000	3,117,450.00
0048	208.1100	Select Borrow	CY	45,658.000	7.00000	319,606.00



Detail Cost Estimate

Project ID: 9200-10-71

Federal Project No.: WISC

Project Description: Shawano - Green Bay, CTH VV Interchange

Category: 0010

Roadway Items

Line No.	Item Number	Item Description	Units	Estimated Qty	Unit Price	Amount
0050	209.0300.S	Backfill Coarse Aggregate (size) 01. No. 1	CY	400.000	40.00000	16,000.00
0052	213.0100	Finishing Roadway (project) 01. 9200-10-71	EACH	1.000	5,000.00000	5,000.00
0054	214.0100	Obliterating Old Road	STA	7.600	375.00000	2,850.00
0056	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,560.000	20.00000	51,200.00
0058	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	80,700.000	11.00000	887,700.00
0060	305.0130	Base Aggregate Dense 3-Inch	TON	18,200.000	11.00000	200,200.00
0062	312.0110	Select Crushed Material	TON	84,800.000	12.00000	1,017,600.00
0064	320.0155	Concrete Base 9-Inch	SY	5,960.000	40.00000	238,400.00
0066	405.0100	Coloring Concrete WisDOT Red	CY	835.000	78.00000	65,130.00
0068	405.1000	Stamping Colored Concrete	CY	152.000	90.00000	13,680.00
0070	415.0090	Concrete Pavement 9-Inch	SY	10,820.000	43.00000	465,260.00
0072	415.0410	Concrete Pavement Approach Slab	SY	80.000	153.65000	12,292.00
0074	415.4100	Concrete Pavement Joint Filling	SY	5,590.000	1.40000	7,826.00
0076	415.5110.S	Concrete Pavement Joint Layout	LS	1.000	1,500.00000	1,500.00
0078	416.0160	Concrete Driveway 6-Inch	SY	106.000	60.00000	6,360.00
0080	416.0512	Concrete Truck Apron 12-Inch	SY	1,635.000	63.00000	103,005.00
0082	416.0610	Drilled Tie Bars	EACH	395.000	8.50000	3,357.50
0084	455.0605	Tack Coat	GAL	4,990.000	2.50000	12,475.00
0086	460.2000	Incentive Density HMA Pavement	DOL	10,990.000	1.00000	10,990.00
0088	460.5223	HMA Pavement 3 LT 58-28 S	TON	1,820.000	68.00000	123,760.00
0090	460.5224	HMA Pavement 4 LT 58-28 S	TON	1,440.000	70.00000	100,800.00
0092	460.6223	HMA Pavement 3 MT 58-28 S	TON	8,190.000	75.00000	614,250.00
0094	460.6424	HMA Pavement 4 MT 58-28 H	TON	5,730.000	80.00000	458,400.00
0096	465.0105	Asphaltic Surface	TON	80.000	150.00000	12,000.00
0098	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	222.000	180.00000	39,960.00
0100	465.0125	Asphaltic Surface Temporary	TON	200.000	150.00000	30,000.00
0102	465.0315	Asphaltic Flumes	SY	60.000	60.00000	3,600.00
0104	465.0400	Asphaltic Shoulder Rumble Strips	LF	9,815.000	1.00000	9,815.00
0106	520.1024	Apron Endwalls for Culvert Pipe 24-Inch	EACH	2.000	410.00000	820.00
0108	520.2024	Culvert Pipe Temporary 24-Inch	LF	88.000	57.00000	5,016.00



Detail Cost Estimate

Project ID: 9200-10-71

Federal Project No.: WISC

Project Description: Shawano - Green Bay, CTH VV Interchange

Category: 0010

Roadway Items

Line No.	Item Number	Item Description	Units	Estimated Qty	Unit Price	Amount
0110	520.8000	Concrete Collars for Pipe	EACH	13.000	515.00000	6,695.00
0112	521.1012	Apron Endwalls for Culvert Pipe Steel 12-Inch	EACH	3.000	270.00000	810.00
0114	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	4.000	200.00000	800.00
0116	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	12.000	234.00000	2,808.00
0118	521.1030	Apron Endwalls for Culvert Pipe Steel 30-Inch	EACH	2.000	428.00000	856.00
0120	521.1509	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 48-Inch 4 to 1	EACH	1.000	4,000.00000	4,000.00
0122	521.1717	Apron Endwalls for Pipe Arch Sloped Side Drains Steel 17x13-Inch 6 to 1	EACH	2.000	1,000.00000	2,000.00
0124	521.3118	Culvert Pipe Corrugated Steel 18-Inch	LF	205.000	55.00000	11,275.00
0126	521.3124	Culvert Pipe Corrugated Steel 24-Inch	LF	178.000	55.00000	9,790.00
0128	521.3130	Culvert Pipe Corrugated Steel 30-Inch	LF	82.000	60.00000	4,920.00
0130	521.3717	Pipe Arch Corrugated Steel 17x13-Inch	LF	34.000	70.00000	2,380.00
0132	522.0118	Culvert Pipe Reinforced Concrete Class III 18-Inch	LF	54.000	81.00000	4,374.00
0134	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	6.000	115.00000	690.00
0136	522.0130	Culvert Pipe Reinforced Concrete Class III 30-Inch	LF	306.000	70.00000	21,420.00
0138	522.0148	Culvert Pipe Reinforced Concrete Class III 48-Inch	LF	21.000	75.00000	1,575.00
0140	522.0536	Culvert Pipe Reinforced Concrete Class V 36-Inch	LF	184.000	80.00000	14,720.00
0142	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	1.000	940.00000	940.00
0144	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	8.000	965.00000	7,720.00
0146	522.1021	Apron Endwalls for Culvert Pipe Reinforced Concrete 21-Inch	EACH	1.000	1,100.00000	1,100.00
0148	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	7.000	1,085.00000	7,595.00
0150	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	5.000	1,085.00000	5,425.00
0152	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	6.000	1,485.00000	8,910.00
0154	522.1048	Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	EACH	1.000	1,660.00000	1,660.00
0156	522.2338	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 38x60-Inch	LF	152.000	300.00000	45,600.00
0158	522.2629	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	EACH	1.000	1,780.00000	1,780.00
0160	522.2638	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 38x60-Inch	EACH	2.000	2,800.00000	5,600.00
0162	524.0124	Culvert Pipe Salvaged 24-Inch	LF	114.000	100.00000	11,400.00
0164	524.0624	Apron Endwalls for Culvert Pipe Salvaged 24-Inch	EACH	4.000	570.00000	2,280.00



Detail Cost Estimate

Project ID: 9200-10-71

Federal Project No.: WISC

Project Description: Shawano - Green Bay, CTH VV Interchange

Category: 0010

Roadway Items

Line No.	Item Number	Item Description	Units	Estimated Qty	Unit Price	Amount
0166	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	1,075.000	20.00000	21,500.00
0168	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	2,750.000	20.00000	55,000.00
0170	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	31,030.000	14.00000	434,420.00
0172	601.0574	Concrete Curb & Gutter 4-Inch Sloped 30-Inch Type G	LF	490.000	18.00000	8,820.00
0174	601.0576	Concrete Curb & Gutter 4-Inch Sloped 30-Inch Type J	LF	125.000	18.00000	2,250.00
0176	601.0580	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type R	LF	1,420.000	18.00000	25,560.00
0178	601.0600	Concrete Curb Pedestrian	LF	530.000	30.00000	15,900.00
0180	602.0405	Concrete Sidewalk 4-Inch	SF	124,600.000	4.50000	560,700.00
0182	602.0415	Concrete Sidewalk 6-Inch	SF	5,350.000	6.00000	32,100.00
0184	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	862.000	33.00000	28,446.00
0186	603.8000	Concrete Barrier Temporary Precast Delivered	LF	1,400.000	8.00000	11,200.00
0188	603.8125	Concrete Barrier Temporary Precast Installed	LF	1,400.000	4.50000	6,300.00
0190	606.0200	Riprap Medium	CY	210.000	60.00000	12,600.00
0192	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	291.000	45.00000	13,095.00
0194	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	232.000	50.00000	11,600.00
0196	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	884.000	55.00000	48,620.00
0198	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	2,379.000	65.00000	154,635.00
0200	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	1,498.000	75.00000	112,350.00
0202	608.0336	Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	LF	1,992.000	95.00000	189,240.00
0204	608.0348	Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	LF	1,249.000	175.00000	218,575.00
0206	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	946.000	55.00000	52,030.00
0208	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	715.000	60.00000	42,900.00
0210	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	1,076.000	65.00000	69,940.00
0212	608.0421	Storm Sewer Pipe Reinforced Concrete Class IV 21-Inch	LF	171.000	70.00000	11,970.00
0214	608.2329	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 29x45-Inch	LF	58.000	165.00000	9,570.00
0216	608.6008	Storm Sewer Pipe Composite 8-Inch	LF	136.000	90.00000	12,240.00
0218	608.6010	Storm Sewer Pipe Composite 10-Inch	LF	138.000	100.00000	13,800.00
0220	608.6012	Storm Sewer Pipe Composite 12-Inch	LF	146.000	110.00000	16,060.00
0222	611.0535	Manhole Covers Type J-Special	EACH	58.000	500.00000	29,000.00
0224	611.0612	Inlet Covers Type C	EACH	1.000	560.00000	560.00



Detail Cost Estimate

Project ID: 9200-10-71

Federal Project No.: WISC

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Category: 0010

Roadway Items

Line No.	Item Number	Item Description	Units	Estimated Qty	Unit Price	Amount
0226	611.0624	Inlet Covers Type H	EACH	110.000	640.00000	70,400.00
0228	611.0639	Inlet Covers Type H-S	EACH	30.000	740.00000	22,200.00
0230	611.0642	Inlet Covers Type MS	EACH	5.000	420.00000	2,100.00
0232	611.0652	Inlet Covers Type T	EACH	8.000	730.00000	5,840.00
0234	611.2003	Manholes 3-FT Diameter	EACH	6.000	1,380.00000	8,280.00
0236	611.2004	Manholes 4-FT Diameter	EACH	5.000	1,620.00000	8,100.00
0238	611.2005	Manholes 5-FT Diameter	EACH	17.000	3,400.00000	57,800.00
0240	611.2006	Manholes 6-FT Diameter	EACH	12.000	3,600.00000	43,200.00
0242	611.2007	Manholes 7-FT Diameter	EACH	9.000	5,620.00000	50,580.00
0244	611.2008	Manholes 8-FT Diameter	EACH	1.000	6,600.00000	6,600.00
0246	611.3003	Inlets 3-FT Diameter	EACH	1.000	1,440.00000	1,440.00
0248	611.3004	Inlets 4-FT Diameter	EACH	15.000	1,810.00000	27,150.00
0250	611.3225	Inlets 2x2.5-FT	EACH	4.000	1,120.00000	4,480.00
0252	611.3230	Inlets 2x3-FT	EACH	127.000	1,420.00000	180,340.00
0254	611.3901	Inlets Median 1 Grate	EACH	1.000	1,780.00000	1,780.00
0256	611.3902	Inlets Median 2 Grate	EACH	2.000	2,260.00000	4,520.00
0258	611.9800.S	Pipe Grates	EACH	4.000	520.00000	2,080.00
0260	612.0106	Pipe Underdrain 6-Inch	LF	2,920.000	6.60000	19,272.00
0262	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	30.000	24.00000	720.00
0264	612.0700	Drain Tile Exploration	LF	50.000	10.00000	500.00
0266	612.0806	Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	EACH	7.000	245.00000	1,715.00
0268	614.0220	Steel Thrie Beam Bullnose Terminal	EACH	2.000	4,400.00000	8,800.00
0270	614.0230	Steel Thrie Beam	LF	175.000	25.00000	4,375.00
0272	614.0905	Crash Cushions Temporary	EACH	4.000	6,800.00000	27,200.00
0274	616.0700.S	Fence Safety	LF	400.000	3.75000	1,500.00
0276	618.0100	Maintenance And Repair of Haul Roads (project) 01. 9200-10-71	EACH	1.000	1,000.00000	1,000.00
0278	619.1000	Mobilization	EACH	0.900	1,718,000.00000	1,546,200.00
0280	620.0300	Concrete Median Sloped Nose	SF	955.000	11.00000	10,505.00
0282	621.0100	Landmark Reference Monuments	EACH	14.000	160.00000	2,240.00
0284	623.0200	Dust Control Surface Treatment	SY	12,000.000	0.20000	2,400.00



Detail Cost Estimate

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Roadway Items

Line No.	Item Number	Item Description	Units	Estimated Qty	Unit Price	Amount
0286	624.0100	Water	MGAL	3,010.000	14.00000	42,140.00
0288	625.0500	Salvaged Topsoil	SY	315,700.000	1.25000	394,625.00
0290	627.0200	Mulching	SY	115,000.000	0.20000	23,000.00
0292	628.1504	Silt Fence	LF	53,300.000	2.00000	106,600.00
0294	628.1520	Silt Fence Maintenance	LF	106,600.000	0.25000	26,650.00
0296	628.1905	Mobilizations Erosion Control	EACH	25.000	200.00000	5,000.00
0298	628.1910	Mobilizations Emergency Erosion Control	EACH	15.000	200.00000	3,000.00
0300	628.2004	Erosion Mat Class I Type B	SY	269,500.000	1.00000	269,500.00
0302	628.2008	Erosion Mat Urban Class I Type B	SY	51,200.000	1.75000	89,600.00
0304	628.2023	Erosion Mat Class II Type B	SY	525.000	1.80000	945.00
0306	628.2037	Erosion Mat Class III Type C	SY	525.000	5.00000	2,625.00
0308	628.6510	Soil Stabilizer Type B	ACRE	12.000	1,100.00000	13,200.00
0310	628.7005	Inlet Protection Type A	EACH	150.000	110.00000	16,500.00
0312	628.7010	Inlet Protection Type B	EACH	5.000	50.00000	250.00
0314	628.7015	Inlet Protection Type C	EACH	145.000	55.00000	7,975.00
0316	628.7020	Inlet Protection Type D	EACH	5.000	145.00000	725.00
0318	628.7504	Temporary Ditch Checks	LF	900.000	10.00000	9,000.00
0320	628.7555	Culvert Pipe Checks	EACH	120.000	15.00000	1,800.00
0322	628.7560	Tracking Pads	EACH	17.000	735.00000	12,495.00
0324	628.7570	Rock Bags	EACH	700.000	8.00000	5,600.00
0326	629.0210	Fertilizer Type B	CWT	360.000	49.00000	17,640.00
0328	630.0120	Seeding Mixture No. 20	LB	9,015.000	4.30000	38,764.50
0330	630.0140	Seeding Mixture No. 40	LB	650.000	10.50000	6,825.00
0332	630.0175	Seeding Mixture No. 75	LB	50.000	17.70000	885.00
0334	630.0200	Seeding Temporary	LB	7,130.000	2.10000	14,973.00
0336	630.0300	Seeding Borrow Pit	LB	1,650.000	1.60000	2,640.00
0338	630.0500	Seed Water	MGAL	1,430.000	10.00000	14,300.00
0340	632.0101	Trees (species) (size) (root) 01. (Syringa Reticulata, B&B, 2" Cal), Ivory Silk Lilac	EACH	6.000	480.00000	2,880.00
0342	632.0101	Trees (species) (size) (root) 02. (Juniperus Chinensis, B&B, 48" HT), Spartan Juniper	EACH	8.000	840.00000	6,720.00



Detail Cost Estimate

Project ID: 9200-10-71

Federal Project No.: WISC

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Category: 0010

Roadway Items

Line No.	Item Number	Item Description	Units	Estimated Qty	Unit Price	Amount
0344	632.0201	Shrubs (species) (size) (root) 01. (Physocarpus Opulifolius 'Monlo', CG, #5) Ninebark Diabolo	EACH	16.000	60.00000	960.00
0346	632.0201	Shrubs (species) (size) (root) 02. (Potentilla Fruticosa, CG, #2), Abbotswood Potentilla	EACH	72.000	60.00000	4,320.00
0348	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	12.000	1,000.00000	12,000.00
0350	633.0100	Delineator Posts Steel	EACH	91.000	24.00000	2,184.00
0352	633.0500	Delineator Reflectors	EACH	91.000	6.50000	591.50
0354	633.5200	Markers Culvert End	EACH	14.000	47.00000	658.00
0356	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	41.000	65.00000	2,665.00
0358	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	75.000	63.00000	4,725.00
0360	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	39.000	67.00000	2,613.00
0362	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	22.000	61.00000	1,342.00
0364	635.0200	Sign Supports Structural Steel HS	LB	9,555.000	4.30000	41,086.50
0366	636.0100	Sign Supports Concrete Masonry	CY	14.000	1,150.00000	16,100.00
0368	636.0500	Sign Supports Steel Reinforcement	LB	826.000	3.00000	2,478.00
0370	637.1220	Signs Type I Reflective SH	SF	1,988.670	24.50000	48,722.42
0372	637.2210	Signs Type II Reflective H	SF	1,089.270	18.00000	19,606.86
0374	637.2220	Signs Type II Reflective SH	SF	13.500	19.50000	263.25
0376	637.2230	Signs Type II Reflective F	SF	331.170	19.50000	6,457.82
0378	638.2601	Removing Signs Type I	EACH	8.000	450.00000	3,600.00
0380	638.2602	Removing Signs Type II	EACH	129.000	18.00000	2,322.00
0382	638.3000	Removing Small Sign Supports	EACH	172.000	19.00000	3,268.00
0384	638.3100	Removing Structural Steel Sign Supports	EACH	6.000	270.00000	1,620.00
0386	640.1303.S	Pond Liner Clay	CY	7,420.000	10.00000	74,200.00
0388	642.5401	Field Office Type D	EACH	0.800	25,000.00000	20,000.00
0390	643.0300	Traffic Control Drums	DAY	21,353.000	0.30000	6,405.90
0392	643.0420	Traffic Control Barricades Type III	DAY	12,003.000	0.60000	7,201.80
0394	643.0705	Traffic Control Warning Lights Type A	DAY	16,967.000	0.20000	3,393.40
0396	643.0715	Traffic Control Warning Lights Type C	DAY	3,380.000	0.20000	676.00
0398	643.0800	Traffic Control Arrow Boards	DAY	250.000	20.00000	5,000.00
0400	643.0900	Traffic Control Signs	DAY	54,792.000	0.40000	21,916.80



Detail Cost Estimate

Project ID: 9200-10-71

Federal Project No.: WISC

Project Description: Shawano - Green Bay, CTH VV Interchange

Category: 0010

Roadway Items

Line No.	Item Number	Item Description	Units	Estimated Qty	Unit Price	Amount
0402	643.1050	Traffic Control Signs PCMS	DAY	133.000	60.00000	7,980.00
0404	643.5000	Traffic Control	EACH	1.000	4,000.00000	4,000.00
0406	645.0111	Geotextile Type DF Schedule A	SY	2,670.000	2.30000	6,141.00
0408	645.0120	Geotextile Type HR	SY	820.000	3.60000	2,952.00
0410	645.0140	Geotextile Type SAS	SY	95,200.000	1.25000	119,000.00
0412	646.1020	Marking Line Epoxy 4-Inch	LF	48,065.000	0.50000	24,032.50
0414	646.3020	Marking Line Epoxy 8-Inch	LF	1,500.000	1.00000	1,500.00
0416	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	3,450.000	2.40000	8,280.00
0418	646.5020	Marking Arrow Epoxy	EACH	8.000	225.00000	1,800.00
0420	646.5120	Marking Word Epoxy	EACH	12.000	265.00000	3,180.00
0422	646.6220	Marking Yield Line Epoxy 18-Inch	EACH	192.000	15.00000	2,880.00
0424	646.6464	Cold Weather Marking Epoxy 4-Inch	LF	5,850.000	0.75000	4,387.50
0426	646.6468	Cold Weather Marking Epoxy 8-Inch	LF	145.000	1.25000	181.25
0428	646.7120	Marking Diagonal Epoxy 12-Inch	LF	525.000	13.50000	7,087.50
0430	646.7220	Marking Chevron Epoxy 24-Inch	LF	380.000	9.70000	3,686.00
0432	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	1,610.000	12.00000	19,320.00
0434	646.8120	Marking Curb Epoxy	LF	410.000	8.20000	3,362.00
0436	646.8220	Marking Island Nose Epoxy	EACH	10.000	146.00000	1,460.00
0438	646.9010	Marking Removal Line Water Blasting 4-Inch	LF	980.000	0.40000	392.00
0440	646.9110	Marking Removal Line Water Blasting 8-Inch	LF	3,870.000	0.60000	2,322.00
0442	646.9210	Marking Removal Line Water Blasting Wide	LF	285.000	0.80000	228.00
0444	650.4000	Construction Staking Storm Sewer	EACH	347.000	50.00000	17,350.00
0446	650.4500	Construction Staking Subgrade	LF	31,764.000	0.20000	6,352.80
0448	650.5000	Construction Staking Base	LF	21,878.000	0.50000	10,939.00
0450	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	37,570.000	0.60000	22,542.00
0452	650.6000	Construction Staking Pipe Culverts	EACH	22.000	200.00000	4,400.00
0454	650.7000	Construction Staking Concrete Pavement	LF	9,886.000	0.70000	6,920.20
0456	650.8500	Construction Staking Electrical Installations (project) 01. 9200-10-71	LS	1.000	1,000.00000	1,000.00
0458	650.9000	Construction Staking Curb Ramps	EACH	49.000	65.00000	3,185.00



Detail Cost Estimate

Project ID: 9200-10-71

Federal Project No.: WISC

Project Description: Shawano - Green Bay, CTH VV Interchange

Category: 0010

Roadway Items

Line No.	Item Number	Item Description	Units	Estimated Qty	Unit Price	Amount
0460	650.9910	Construction Staking Supplemental Control (project) 01. 9200-10-71	LS	1.000	1,000.00000	1,000.00
0462	650.9920	Construction Staking Slope Stakes	LF	34,606.000	0.65000	22,493.90
0464	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	7,240.000	5.00000	36,200.00
0466	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	2,065.000	7.00000	14,455.00
0468	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	40.000	1,300.00000	52,000.00
0470	653.0905	Removing Pull Boxes	EACH	21.000	66.00000	1,386.00
0472	654.0105	Concrete Bases Type 5	EACH	42.000	725.00000	30,450.00
0474	654.0230	Concrete Control Cabinet Bases Type L30	EACH	2.000	1,250.00000	2,500.00
0476	655.0610	Electrical Wire Lighting 12 AWG	LF	8,853.000	0.60000	5,311.80
0478	655.0615	Electrical Wire Lighting 10 AWG	LF	9,320.000	0.70000	6,524.00
0480	655.0625	Electrical Wire Lighting 6 AWG	LF	29,865.000	1.20000	35,838.00
0482	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. CB100	LS	1.000	1,250.00000	1,250.00
0484	656.0200	Electrical Service Meter Breaker Pedestal (location) 02. CB200	LS	1.000	1,250.00000	1,250.00
0486	656.0200	Electrical Service Meter Breaker Pedestal (location) 03. STH 29 EB & CTH VV	LS	1.000	1,250.00000	1,250.00
0488	656.0200	Electrical Service Meter Breaker Pedestal (location) 04. STH 29 WB & CTH VV	LS	1.000	1,250.00000	1,250.00
0490	659.2130	Lighting Control Cabinets 120/240 30-Inch	EACH	2.000	5,700.00000	11,400.00
0492	690.0150	Sawing Asphalt	LF	9,830.000	1.50000	14,745.00
0494	690.0250	Sawing Concrete	LF	1,805.000	2.50000	4,512.50
0496	715.0415	Incentive Strength Concrete Pavement	DOL	6,320.000	1.00000	6,320.00
0498	715.0710	Optimized Aggregate Gradation Incentive	DOL	9,950.000	1.00000	9,950.00
0500	740.0440	Incentive IRI Ride	DOL	5,890.000	1.00000	5,890.00
0502	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	2,100.000	5.00000	10,500.00
0504	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	5,760.000	5.00000	28,800.00
0506	SPV.0035	Special 01. Planting Soil Mixture	CY	970.000	70.00000	67,900.00
0508	SPV.0060	Special 01. Manholes 10-FT Diameter	EACH	1.000	15,000.00000	15,000.00
0510	SPV.0060	Special 02. Inlets 6-FT Diameter	EACH	2.000	4,000.00000	8,000.00
0512	SPV.0060	Special 03. Apron Endwalls for Culvert Pipe Steel 10-Inch	EACH	2.000	300.00000	600.00
0514	SPV.0060	Special 04. Outfall Structure 2X2-FT	EACH	3.000	2,000.00000	6,000.00
0516	SPV.0060	Special 05. Outfall Structure 3X3-FT	EACH	2.000	3,000.00000	6,000.00



Detail Cost Estimate

Project ID: 9200-10-71

Federal Project No.: WISC

Project Description: Shawano - Green Bay, CTH VV Interchange

Category: 0010

Roadway Items

Line No.	Item Number	Item Description	Units	Estimated Qty	Unit Price	Amount
0518	SPV.0060	Special 06. Outfall Structure 3X6-FT	EACH	1.000	4,000.00000	4,000.00
0520	SPV.0060	Special 07. Rock Crib CTH TS	EACH	1.000	14,000.00000	14,000.00
0522	SPV.0060	Special 08. Rock Crib CTH VV	EACH	1.000	14,000.00000	14,000.00
0524	SPV.0060	Special 09. Rock Crib Evergreen Ave	EACH	1.000	16,000.00000	16,000.00
0526	SPV.0060	Special 10. Construction Staking Pond Layout	EACH	3.000	2,000.00000	6,000.00
0528	SPV.0060	Special 11. Utility Line Opening	EACH	20.000	950.00000	19,000.00
0530	SPV.0060	Special 30. Luminaires Utility LED A Black	EACH	28.000	350.00000	9,800.00
0532	SPV.0060	Special 31. Luminaires Utility LED B Black	EACH	15.000	400.00000	6,000.00
0534	SPV.0060	Special 32. Luminaire Arms Truss Type 4 1/2-Inch Clamp 12-FT Black	EACH	43.000	400.00000	17,200.00
0536	SPV.0060	Special 33. Poles Type 5-Aluminum Black	EACH	42.000	1,300.00000	54,600.00
0538	SPV.0060	Special 34. Transformer Bases Breakaway 11 1/2-Inch Bolt Circle Black	EACH	42.000	400.00000	16,800.00
0540	SPV.0060	Special 35. Concrete Control Cabinet Base NER Type 10	EACH	2.000	6,500.00000	13,000.00
0542	SPV.0060	Special 40. Grasses, Feather Reed Grass (Karl Foerster), CG, #1	EACH	93.000	16.00000	1,488.00
0544	SPV.0060	Special 41. Perennials, Russian Sage, CG, #1	EACH	148.000	16.00000	2,368.00
0546	SPV.0060	Special 42. Perennials, Professor Kippenbeg Aster, CG, #1	EACH	52.000	20.00000	1,040.00
0548	SPV.0060	Special 43. Perennials, Purple Gas Plant, CG, #1	EACH	49.000	20.00000	980.00
0550	SPV.0060	Special 44. Perennials, Butterfly Flower, CG, #1	EACH	25.000	20.00000	500.00
0552	SPV.0060	Special 45. Perennials, 'Bravado' Coneflower, CG, #1	EACH	96.000	40.00000	3,840.00
0554	SPV.0060	Special 46. Perennials, 'Fireball' Monarda, CG, #1	EACH	79.000	40.00000	3,160.00
0556	SPV.0060	Special 47. Perennials, 'Autumn Fire' Sedum, CG, #1	EACH	123.000	20.00000	2,460.00
0558	SPV.0060	Special 48. Perennials, 'Stella D' Oro' Daylily, CG, #1	EACH	509.000	15.00000	7,635.00
0560	SPV.0060	Special 49. Perennials, 'Autumn Joy', Sedum, CG, #1	EACH	443.000	25.00000	11,075.00
0562	SPV.0060	Special 50. Perennials, Moonshine Yarrow, CG, #1	EACH	183.000	18.00000	3,294.00
0564	SPV.0060	Special 60. Planting Pod	EACH	38.000	1,000.00000	38,000.00
0566	SPV.0060	Special 61. Submergent Wetland Plantings	EACH	755.000	15.00000	11,325.00
0568	SPV.0060	Special 62. Emergent Wetland Plantings	EACH	1,520.000	5.00000	7,600.00
0570	SPV.0090	Special 01. Concrete Curb & Gutter 24-Inch Type D	LF	145.000	18.00000	2,610.00
0572	SPV.0105	Special 01. Removing RCUT Lighting	LS	1.000	1,000.00000	1,000.00
0574	SPV.0180	Special 01. Shredded Hardwood Bulk Mulch	SY	1,440.000	5.50000	7,920.00



Detail Cost Estimate

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Project ID: 9200-10-71

Federal Project No.: WISC

Project Description: Shawano - Green Bay, CTH VV Interchange

Category 0010 Total:	\$16,162,337.45
Eng & Contg:	\$1,900,690.88
Total:	\$18,063,028.33



Detail Cost Estimate

Project ID: 9200-10-71

Federal Project No.: WISC

Project Description: Shawano - Green Bay, CTH VV Interchange

Category: 0020

Structure Items

Funding Source(s) and Participation:

1 CNTY Brown County
1 FED Federal Funding

29.00%

0.00

71.00%

0.00

Category Work Class: BRCN

Bridge Construction

Fed Work Category: 01

New Construction Roadway

Category Length: 222.5000 FEET

Fed Construction Class: LET

Let Project Items

Category Width: 64.3000 FEET

Line No.	Item Number	Item Description	Units	Estimated Qty	Unit Price	Amount
0576	206.1000	Excavation for Structures Bridges (structure) 01. B-5-416	LS	1.000	45,000.00000	45,000.00
0578	210.1500	Backfill Structure Type A	TON	590.000	22.00000	12,980.00
0580	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	408.000	11.00000	4,488.00
0582	502.0100	Concrete Masonry Bridges	CY	1,168.000	500.00000	584,000.00
0584	502.3200	Protective Surface Treatment	SY	1,843.000	2.75000	5,068.25
0586	502.3210	Pigmented Surface Sealer	SY	217.000	4.70000	1,019.90
0588	503.0146	Prestressed Girder Type I 45W-Inch	LF	1,969.000	192.00000	378,048.00
0590	505.0400	Bar Steel Reinforcement HS Structures	LB	11,420.000	1.00000	11,420.00
0592	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	182,050.000	0.95000	172,947.50
0594	505.0800.S	Bar Steel Reinforcement HS Stainless Structures	LB	2,210.000	3.10000	6,851.00
0596	506.2605	Bearing Pads Elastomeric Non-Laminated	EACH	36.000	85.00000	3,060.00
0598	506.4000	Steel Diaphragms (structure) 01. B-5-416	EACH	32.000	698.00000	22,336.00
0600	513.4091	Railing Tubular Screening	LF	521.000	143.50000	74,763.50
0602	516.0500	Rubberized Membrane Waterproofing	SY	32.000	43.25000	1,384.00
0604	517.1010.S	Concrete Staining (structure) 01. B-5-416	SF	6,070.000	1.35000	8,194.50
0606	517.1015.S	Concrete Staining Multi-Color (structure) 01. B-5-416	SF	2,793.000	2.75000	7,680.75
0608	517.1050.S	Architectural Surface Treatment (structure) 01. B-5-416	SF	2,793.000	3.60000	10,054.80
0610	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	5,265.000	36.50000	192,172.50
0612	604.0500	Slope Paving Crushed Aggregate	SY	678.000	24.75000	16,780.50
0614	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	238.000	5.75000	1,368.50
0616	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	201.25000	805.00
0618	645.0111	Geotextile Type DF Schedule A	SY	124.000	2.30000	285.20
0620	650.6500	Construction Staking Structure Layout (structure) 01. B-5-416	LS	1.000	2,000.00000	2,000.00
0622	652.0125	Conduit Rigid Metallic 2-Inch	LF	14.000	28.00000	392.00
0624	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	248.000	5.50000	1,364.00



Detail Cost Estimate

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Project ID: 9200-10-71

Federal Project No.: WISC

Project Description: Shawano - Green Bay, CTH VV Interchange

Category: 0020

Structure Items

Line No.	Item Number	Item Description	Units	Estimated Qty	Unit Price	Amount
0626	653.0222	Junction Boxes 18x12x6-Inch	EACH	1.000	1,460.00000	1,460.00
0628	657.6005	Anchor Assemblies Light Poles on Structures	EACH	1.000	550.00000	550.00
0630	715.0502	Incentive Strength Concrete Structures	DOL	6,950.000	1.00000	6,950.00
0632	SPV.0090	Special 02. Fence Chain Link Polymer Coated 6-FT	LF	64.000	100.00000	6,400.00

Category 0020 Total: \$1,579,823.90

Eng & Contg: \$185,787.29

Total: \$1,765,611.19



Detail Cost Estimate

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Project ID: 9200-10-71

Federal Project No.: WISC

Project Description: Shawano - Green Bay, CTH VV Interchange

Category: 0030

Non-Participating

Funding Source(s) and Participation: 1 CNTY Brown County

100.00%

0.00

Category Work Class: MISC

Miscellaneous Work

Fed Work Category: 01

New Construction Roadway

Category Length: 0.0800 MILES

Fed Construction Class: LET

Let Project Items

Category Width: 0.0000 FEET

Line No.	Item Number	Item Description	Units	Estimated Qty	Unit Price	Amount
0634	SPV.0090	Special 03. Steel Casing Pipe 20-Inch	LF	380.000	200.00000	76,000.00
Category 0030 Total:					\$76,000.00	
Eng & Contg:					\$8,937.60	
Total:					\$84,937.60	
Project 9200-10-71 Total:					\$17,818,161.35	
Estimate Total:					\$17,818,161.35	



Detail Estimate Funding Summary

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Project ID: 9200-10-71

Project Description: Shawano - Green Bay, CTH VV Interchange

Category	Cost	E&C Percent	E&C Amount	Total	Funding Package		Fund	Funding Amount
0010	Roadway Items							
	16,162,337.45	11.76 %	1,900,690.88	18,063,028.33	0010	FED	Federal Funding	12,824,750.11
					0010	CNTY	Brown County	5,238,278.22
					Total For Category		\$18,063,028.33	
0030	Non-Participating							
	76,000.00	11.76 %	8,937.60	84,937.60	0030	CNTY	Brown County	84,937.60
					Total For Category		\$84,937.60	
0020	Structure Items							
	1,579,823.90	11.76 %	185,787.29	1,765,611.19	0020	FED	Federal Funding	1,253,583.94
					0020	CNTY	Brown County	512,027.25
					Total For Category		\$1,765,611.19	
					Project Total		9200-10-71	\$19,913,577.12