

	Notable cost differences between 2019 and current project identified in July 3, 2024 EOPC memo	delta Current vs. 2019	Comment
1	A more conservative material disposal approach that anticipates a greater percentage of excess soil being disposed of at a landfill. This approach will be refined after completion of the upcoming subsurface investigation	\$ 1,994,750	Higher cost, a more conservative estimate of landfill disposal requirements. This item will be refined and hopefully lowered following the subsurface investigation.
2	Increased pavement demolition and restoration requirements due to the generally deteriorated existing parking lot pavement quality	\$ 330,559	Higher cost. More area planned for removal and replacement. This does not include total pavement area which will be determined by the parking lot design by others.
3	Removal and disposal of the existing railroad bridge at the downstream end of the project area	\$ 76,700	Not included in 2019.
4	Additional channel bank revetment required to narrow the channel section without extending the channel footprint further west into the parking lot	\$ 1,143,153	Greater linear footage of bank revetment required to narrow the channel without extending further west into the parking lot.
5	New asphalt path east of channel between Watertown Plank Road and Wall Street	\$ 36,300	Not included in 2019.
6	Addition of curbing on west edge of channel top of bank along parking lot	\$ 22,905	Not included in 2019.
7	New pedestrian bridge over the new channel between asphalt path and parking lot connection near north side of Sendik's building	\$ 239,000	Not included in 2019.
8	Sidewalk along west edge of channel top of bank between Wall Street and pedestrian bridge	\$ (18,000)	Removed from project.
9	Revised unit prices referencing recent similar work in the area that reflect the current bidding environment and economy	-	-
	Total estimated difference	\$ 3,825,367	

Underwood Creek Daylighting

Village of Elm Grove, Wisconsin
July 3, 2024

Draft - Engineer's Opinion of Probable Construction Cost

No.	Item	Units	Qty	Unit Price	Total	July 2024	Jan 2019	delta
1	Mobilization, Demobilization, And Site Preparation	LS	1	\$ 150,000.00	\$ 150,000			
2	Sign Removal and Reinstallation	LS	1	\$ 7,000.00	\$ 7,000			
3	Lighting Removal and Reinstallation	LS	1	\$ 15,000.00	\$ 15,000			
4	Clearing and Grubbing	LS	1	\$ 30,000.00	\$ 30,000			
5	Asphalt Removal	SY	12,200	\$ 6.00	\$ 73,200			
6	Concrete Sidewalk Removal	SY	30	\$ 15.00	\$ 450			
7	Curb & Gutter Removal	LF	730	\$ 6.00	\$ 4,380			
8	Railroad Bridge Removal	LS	1	\$ 76,700.00	\$ 76,700	\$ 76,700	0 \$	76,700
9	Soil Excavation and Grading	LS	1	\$ 352,000.00	\$ 352,000			
10	Off-site Material Disposal - Landfill Daily Cover	TON	27,600	\$ 50.00	\$ 1,380,000			
11	Off-site Material Disposal - Landfill Direct	TON	10,600	\$ 70.00	\$ 742,000			
12	Off-site Material Disposal - Non-Landfill	TON	8,300	\$ 15.00	\$ 124,500	\$ 2,598,500	603,750 \$	1,994,750
13	Cast-In-Place Retaining Wall (East)	LS	1	\$ 225,000.00	\$ 225,000			
14	Cast-In-Place Retaining Wall (West)	LS	1	\$ 314,000.00	\$ 314,000	\$ 539,000	591,000 \$	(52,000)
15	Pedestrian Bridge - Structure	LS	1	\$ 175,000.00	\$ 175,000			
16	Pedestrian Bridge - Abutments	EA	2	\$ 32,000.00	\$ 64,000	\$ 239,000	0 \$	239,000
17	Quarry Stone Bank	TON	2,779	\$ 430.00	\$ 1,195,153	\$ 1,195,153	0 \$	1,195,153
18	Riprap Quarry Stone Bank Transitions	TON	90	\$ 170.00	\$ 15,300			
19	Wall Street Arch Culvert	LS	1	\$ 265,000.00	\$ 265,000			
20	Wall Street Roadway	SY	400	\$ 49.00	\$ 19,600			
21	Parking Lot Asphalt Paving	SY	7,340	\$ 44.00	\$ 322,979	\$ 396,179	65,620 \$	330,559
22	Concrete Curb and Gutter	LF	975	\$ 27.00	\$ 26,325	\$ 26,325	3,420 \$	22,905
23	Concrete Sidewalk	SF	2,755	\$ 9.00	\$ 24,795			
24	East Asphalt Path	SY	1,008	\$ 36.00	\$ 36,300	\$ 36,300	0 \$	36,300
25	Subpavement Material (Channel Bed Base)	TON	1,080	\$ 20.00	\$ 21,600			
26	Riffle Material	TON	840	\$ 70.00	\$ 58,800			
27	Glide Material	TON	170	\$ 40.00	\$ 6,800			
28	Run Material	TON	290	\$ 80.00	\$ 23,200			
29	Heavy Riprap Energy Dissipation Pool	TON	460	\$ 70.00	\$ 32,200			
30	Toewood	LF	350	\$ 150.00	\$ 52,500			
31	Landscaping Boulders	EA	20	\$ 300.00	\$ 6,000			
32	Topsoil	TON	1,220	\$ 20.00	\$ 24,400			
33	Native Seeding - Zones A & B	SY	1,525	\$ 6.00	\$ 9,150			
34	Native Seeding - Zone C	SY	5,300	\$ 6.00	\$ 31,800			
35	Turf Seeding - Zone D	SY	2,500	\$ 3.00	\$ 7,500			
36	Live Stakes (Dormant Woody Cuttings)	EA	1,500	\$ 4.00	\$ 6,000			
37	Shrubs	EA	500	\$ 150.00	\$ 75,000			
38	Trees	EA	25	\$ 600.00	\$ 15,000			
39	Culvert/Channel Removal And Abandonment (W/Pr To Sendiks)	LS	1	\$ 54,600.00	\$ 54,600			
40	Culvert Abandonment With Flowable Fill (Beneath Sendiks)	LS	1	\$ 90,000.00	\$ 90,000			
41	Stream Channel Abandonment (Downstream Of Sendiks)	LS	1	\$ 45,100.00	\$ 45,100			
42	Storm Sewer Pipe Rcp 18-Inch	LF	202	\$ 125.00	\$ 25,250			
43	Storm Sewer Pipe Rcp 24-Inch	LF	74	\$ 135.00	\$ 9,990			
44	Storm Sewer Pipe Rcp 30-Inch	LF	71	\$ 150.00	\$ 10,650			
45	Storm Sewer Pipe Rcp 36-Inch	LF	242	\$ 200.00	\$ 48,400			
46	Storm Sewer Pipe Rcp 42-Inch	LF	219	\$ 225.00	\$ 49,275			
47	42-Inch Concrete Apron Endwall	EA	1	\$ 3,000.00	\$ 3,000			
48	Storm Sewer Manhole 48-Inch	EA	3	\$ 3,300.00	\$ 9,900			
49	Storm Sewer Manhole 60-Inch	EA	3	\$ 4,800.00	\$ 14,400			
50	Storm Sewer Manhole 72-Inch	EA	1	\$ 7,000.00	\$ 7,000			
Contingency					0%	\$ -		
Total					\$	6,377,000		

Engineer's Opinion of Probable Construction Cost

Underwood Creek Daylighting

No.	Item	Units	Qty	Unit Price	Total Price
1	MOBILIZATION, DEMOBILIZATION, AND SITE PREPARATION	LS	1	\$80,000	\$80,000
2	SIGN AND LIGHTING REMOVAL	LS	1	\$10,000	\$10,000
3	CLEARING AND GRUBBING	LS	1	\$20,520	\$20,520
4	ASPHALT REMOVAL	LS	1	\$33,500.00	\$33,500
5	SOIL CHARACTERIZATION FOR PROPER DISPOSAL	LS	1	\$25,000.00	\$25,000
6	SOIL EXCAVATION, GRADING AND DISPOSAL - COMMON	CY	15750	\$15.00	\$236,250
7	SOIL EXCAVATION, GRADING AND DISPOSAL - CONTAMINATED	CY	5250	\$70.00	\$367,500
8	RETAINING WALL W1	SF	5000	\$55.00	\$275,000
9	RETAINING WALL W2	SF	4200	\$55.00	\$231,000
10	RETAINING WALL W3	SF	1700	\$50.00	\$85,000
11	CONCRETE ARCH CULVERT	LS	1	\$400,000	\$400,000
12	WALL STREET ROADWAY	SY	200	\$22.00	\$4,400
13	CONCRETE CURB AND GUTTER	LF	190	\$18.00	\$3,420
14	CONCRETE SIDEWALK	SF	1250	\$4.50	\$5,625
15	SUBPAVEMENT MATERIAL (CHANNEL BED BASE)	TON	1080	\$15.00	\$16,200
16	RIFFLE MATERIAL	TON	840	\$30.00	\$25,200
17	GLIDE MATERIAL	TON	170	\$30.00	\$5,100

18	RUN MATERIAL	TON	290	\$30.00	\$8,700
19	HEAVY RIPRAP	TON	460	\$40.00	\$18,400
20	TOEWOOD WITH DOUBLE COIR SOIL LIFTS	LF	470	\$150.00	\$70,500
21	LANDSCAPING BOULDERS	EA	20	\$300.00	\$6,000
22	STONE WEIR	LS	1	\$7,000.00	\$7,000
23	TOPSOIL	TON	1220	\$20.00	\$24,400
24	NATIVE SEEDING – ZONES A & B	SY	1525	\$6.00	\$9,150
25	NATIVE SEEDING – ZONE C	SY	5300	\$6.00	\$31,800
26	TURF SEEDING – ZONE D	SY	2500	\$3.00	\$7,500
27	LIVE STAKES	EA	1500	\$4.00	\$6,000
28	SHRUBS	EA	500	\$30.00	\$15,000
29	TREES	EA	25	\$250.00	\$6,250
30	CULVERT/CHANNEL REMOVAL AND ABANDONMENT (WTPR TO SENDIKS)	LS	1	\$20,000.00	\$20,000
31	CULVERT ABANDONMENT WITH FLOWABLE FILL (BENEATH SENDIKS)	LS	1	\$70,000.00	\$70,000
32	STREAM CHANNEL ABANDONMENT (DOWNSTREAM OF SENDIKS)	LS	1	\$16,260.00	\$16,260
33	STORM SEWER PIPE RCP 18-INCH	LF	202	\$510.00	\$103,020
34	STORM SEWER PIPE RCP 24-INCH	LF	74	\$510.00	\$37,740
35	STORM SEWER PIPE RCP 30-INCH	LF	71	\$515.00	\$36,565
36	STORM SEWER PIPE RCP 36-INCH	LF	242	\$85.00	\$20,570
37	STORM SEWER PIPE RCP 42-INCH	LF	219	\$95.00	\$20,805
38	42-INCH CONCRETE APRON ENDWALL	EA	1	\$1,000.00	\$1,000
39	STORM SEWER MANHOLE 48-INCH	EA	3	\$1,800.00	\$5,400

January 10, 2019

40	STORM SEWER MANHOLE 60-INCH	EA	3	\$2,500.00	\$7,500
41	STORM SEWER MANHOLE 72-INCH	EA	1	\$3,300.00	\$3,300
42	SIGN AND LIGHTING REINSTALLATION	LS	1	\$10,000.00	\$10,000
43	PARKING LOT ASPHALT PAVING	SY	1460	\$22.00	\$32,120

Total Estimate

\$2,418,695