

RED LAKE WATERSHED DISTRICT
Special Meeting
June 6, 2019
Agenda
9:00 a.m.

9:00 a.m.	Call to Order	Action
	Ditch 16, RLWD Project No. 177-Contract and Bids	Info./Action
	Adjourn	Action

UPCOMING MEETINGS

June 13, 2019	RLWD Board Meeting, 9:00 a.m.
June 26-28, 2019	2019 MAWD Summer Tour
June 27, 2019	RLWD Board Meeting, 9:00 a.m.

RLWD Ditch 16, Project No. 177
Bid Tab

	ITEM DESCRIPTION	UNITS	QTY	Engineers Estimate		Davidson Const.& Ready Mix,Inc.		Burski Excavating, Inc.		Gladen Construction	
				Unit Cost	Cost	Unit Cost	Cost	Unit Cost	Cost	Unit Cost	Cost
1	Traffic Control	LS	1	\$ 15,000.00	\$ 15,000.00	\$ 30,000.00	\$ 30,000.00	\$ 28,800.00	\$ 28,800.00	\$ 31,000.00	\$ 31,000.00
2	Anchored Silt Fence (Type PA - Preassembled)	LF	1,000	\$ 2.50	\$ 2,500.00	\$ 3.00	\$ 3,000.00	\$ 2.75	\$ 2,750.00	\$ 2.00	\$ 2,000.00
3	Anchored 12" Bio-Roll Ditch Block (Type 3)	LF	1,040	\$ 3.50	\$ 3,640.00	\$ 4.00	\$ 4,160.00	\$ 3.25	\$ 3,380.00	\$ 3.250	\$ 3,380.00
4	Grass Seed Mixture	LBS	8,600	\$ 2.75	\$ 23,650.00	\$ 2.50	\$ 21,500.00	\$ 2.91	\$ 25,026.00	\$ 2.500	\$ 21,500.00
5	Grass Seeding (MnDOT 2575.3)	AC	86	\$ 150.00	\$ 12,900.00	\$ 155.00	\$ 13,330.00	\$ 347.00	\$ 29,842.00	\$ 150.000	\$ 12,900.00
6	Anchored Wheat Straw Mulch	TON	172	\$ 100.00	\$ 17,200.00	\$ 135.00	\$ 23,220.00	\$ 165.00	\$ 28,380.00	\$ 135.000	\$ 23,220.00
7	Riprap, Class 3 (18" & Under) w/type 4 Geotextile	CU.YD.	1,600	\$ 55.00	\$ 88,000.00	\$ 70.00	\$ 112,000.00	\$ 62.00	\$ 99,200.00	\$ 56.000	\$ 89,600.00
8	Excavation (topsoil conservation-replacement, SWPPP Prep., Erosion Control, Minor Lateral Hauling and Clearing and Grubbing of Trees in Permanent ROW are incidental)	CU.YD.	366,920	\$ 2.10	\$ 770,532.00	\$ 4.00	\$ 1,467,680.00	\$ 1.62	\$ 594,410.40	\$ 1.990	\$ 730,170.80
9	Remove Bituminous Pavement	SQ.YD.	316	\$ 5.00	\$ 1,580.00	\$ 5.00	\$ 1,580.00	\$ 16.00	\$ 5,056.00	\$ 6.000	\$ 1,896.00
10	Bituminous Pavement (Type SP 12.5 Wearing Course Mix)	TON	270	\$ 150.00	\$ 40,500.00	\$ 130.00	\$ 35,100.00	\$ 100.00	\$ 27,000.00	\$ 140.000	\$ 37,800.00
11	Geogrid-Tensar TX 140 (Install Under Aggregate Base)	SQ.YD.	864	\$ 2.50	\$ 2,160.00	\$ 5.00	\$ 4,320.00	\$ 3.50	\$ 3,024.00	\$ 5.150	\$ 4,449.60
12	Aggregate Roadway Surfacing (Loose Volume), CL 1	CU.YD.	450	\$ 25.00	\$ 11,250.00	\$ 30.00	\$ 13,500.00	\$ 32.00	\$ 14,400.00	\$ 25.500	\$ 11,475.00
13	Salvage & Reinstall Granual & Aggregate Material (CV)	CU.YD.	680	\$ 12.00	\$ 8,160.00	\$ 15.00	\$ 10,200.00	\$ 25.00	\$ 17,000.00	\$ 11.000	\$ 7,480.00
14	Granular Backfill (Compacted Volume)	CU.YD.	200	\$ 20.00	\$ 4,000.00	\$ 25.00	\$ 5,000.00	\$ 36.00	\$ 7,200.00	\$ 21.500	\$ 4,300.00
15	Aggregate Road Base and Shoulder Base (CL 5 MOD)(CV)	CU.YD.	288	\$ 30.00	\$ 8,640.00	\$ 35.00	\$ 10,080.00	\$ 30.00	\$ 8,640.00	\$ 36.500	\$ 10,512.00
16	18" Corrugated Steel Pipe (CSP) Culvert (16 Gauge)	LF	2,050	\$ 30.00	\$ 61,500.00	\$ 32.00	\$ 65,600.00	\$ 23.50	\$ 48,175.00	\$ 30.500	\$ 62,525.00
17	80' - 24" SCH 20 Steel Pipe - Directional Bore/Open Cut	EACH	2	\$ 4,800.00	\$ 9,600.00	\$ 24,000.00	\$ 48,000.00	\$ 22,000.00	\$ 44,000.00	\$ 21,800.000	\$ 43,600.00
18	24" Corrugated Steel Pipe (CSP) Culvert (16 Gauge)	LF	2,680	\$ 35.00	\$ 93,800.00	\$ 38.00	\$ 101,840.00	\$ 32.00	\$ 85,760.00	\$ 59.800	\$ 160,264.00
19	36" Corrugated Steel Pipe (CSP) Culvert (14 Gauge)	LF	190	\$ 55.00	\$ 10,450.00	\$ 58.00	\$ 11,020.00	\$ 56.00	\$ 10,640.00	\$ 79.550	\$ 15,114.50
20	49"x33" CSAP Culvert (12 Gauge) w/3:1 Step Ends	LF	70	\$ 80.00	\$ 5,600.00	\$ 95.00	\$ 6,650.00	\$ 86.00	\$ 6,020.00	\$ 119.300	\$ 8,351.00
21	53"x41" CSAP Culvert (12 Gauge) w/3:1 Step Ends	LF	320	\$ 95.00	\$ 30,400.00	\$ 110.00	\$ 35,200.00	\$ 100.00	\$ 32,000.00	\$ 128.220	\$ 41,030.40
22	60"x46" CSAP Culvert (12 Gauge) w/3:1 Step Ends	LF	160	\$ 100.00	\$ 16,000.00	\$ 120.00	\$ 19,200.00	\$ 114.00	\$ 18,240.00	\$ 139.800	\$ 22,368.00
23	81"x59" CSAP Culvert (12 Gauge) w/3:1 Step Ends	LF	385	\$ 125.00	\$ 48,125.00	\$ 150.00	\$ 57,750.00	\$ 149.00	\$ 57,365.00	\$ 177.900	\$ 68,491.50
24	78" CSP Culvert (12 gauge) w?3:1 step ends	LF	180	\$ 170.00	\$ 30,600.00	\$ 165.00	\$ 29,700.00	\$ 158.00	\$ 28,440.00	\$ 176.250	\$ 31,725.00
25	18" CSP Standard Flared End Section	EACH	44	\$ 145.00	\$ 6,380.00	\$ 200.00	\$ 8,800.00	\$ 100.00	\$ 4,400.00	\$ 160.000	\$ 7,040.00
26	24" CSP Standard Flared End Section	EACH	42	\$ 200.00	\$ 8,400.00	\$ 235.00	\$ 9,870.00	\$ 140.00	\$ 5,880.00	\$ 200.000	\$ 8,400.00
27	36" CSP Standard Flared End Section	EACH	6	\$ 1,190.00	\$ 7,140.00	\$ 500.00	\$ 3,000.00	\$ 380.00	\$ 2,280.00	\$ 425.000	\$ 2,550.00
28	18" Exterior Flap-Gate	EACH	44	\$ 525.00	\$ 23,100.00	\$ 575.00	\$ 25,300.00	\$ 455.00	\$ 20,020.00	\$ 525.000	\$ 23,100.00
29	24" Exterior Flap-Gate	EACH	42	\$ 592.00	\$ 24,864.00	\$ 650.00	\$ 27,300.00	\$ 545.00	\$ 22,890.00	\$ 640.000	\$ 26,880.00
30	36" Exterior Flap-Gate	EACH	2	\$ 625.00	\$ 1,250.00	\$ 1,100.00	\$ 2,200.00	\$ 950.00	\$ 1,900.00	\$ 1,045.000	\$ 2,090.00
31	12'x6' Reinforced Conc. Box Culvert (CL 2)	LF	96	\$ 950.00	\$ 91,200.00	\$ 1,100.00	\$ 105,600.00	\$ 1,150.00	\$ 110,400.00	\$ 1,137.000	\$ 109,152.00
32	12'x 6' RC Box Cul. End Sec, (CL 2 w/15 Deg. Skewed End)	EACH	2	\$ 10,000.00	\$ 20,000.00	\$ 15,000.00	\$ 30,000.00	\$ 30,800.00	\$ 61,600.00	\$ 12,633.000	\$ 25,266.00
Total				\$ 1,498,121.00		\$ 2,341,700.00		\$ 1,454,118.40		\$ 1,649,630.80	

RJ Zavoral & Sons, Inc.		Park Construction Company		DIS, Inc.	
Unit Cost	Cost	Unit Cost	Cost	Unit Cost	Cost
\$ 75,000.00	\$ 75,000.00	\$ 27,500.00	\$ 27,500.00	\$ 32,400.00	\$ 32,400.00
\$ 2.00	\$ 2,000.00	\$ 2.10	\$ 2,100.00	\$ 3.20	\$ 3,200.00
\$ 3.250	\$ 3,380.00	\$ 3.40	\$ 3,536.00	\$ 4.25	\$ 4,420.00
\$ 2.500	\$ 21,500.00	\$ 2.50	\$ 21,500.00	\$ 3.75	\$ 32,250.00
\$ 145.000	\$ 12,470.00	\$ 149.00	\$ 12,814.00	\$ 346.00	\$ 29,756.00
\$ 130.000	\$ 22,360.00	\$ 136.00	\$ 23,392.00	\$ 188.00	\$ 32,336.00
\$ 65.000	\$ 104,000.00	\$ 68.40	\$ 109,440.00	\$ 77.00	\$ 123,200.00
\$ 2.200	\$ 807,224.00	\$ 2.22	\$ 814,562.40	\$ 3.46	\$ 1,269,543.20
\$ 5.000	\$ 1,580.00	\$ 8.05	\$ 2,543.80	\$ 12.75	\$ 4,029.00
\$ 95.000	\$ 25,650.00	\$ 133.00	\$ 35,910.00	\$ 149.00	\$ 40,230.00
\$ 3.250	\$ 2,808.00	\$ 4.75	\$ 4,104.00	\$ 6.25	\$ 5,400.00
\$ 21.000	\$ 9,450.00	\$ 38.90	\$ 17,505.00	\$ 60.00	\$ 27,000.00
\$ 7.600	\$ 5,168.00	\$ 14.50	\$ 9,860.00	\$ 12.00	\$ 8,160.00
\$ 23.250	\$ 4,650.00	\$ 38.80	\$ 7,760.00	\$ 39.00	\$ 7,800.00
\$ 26.250	\$ 7,560.00	\$ 34.20	\$ 9,849.60	\$ 43.00	\$ 12,384.00
\$ 30.500	\$ 62,525.00	\$ 74.10	\$ 151,905.00	\$ 39.00	\$ 79,950.00
\$ 22,175.000	\$ 44,350.00	\$ 20,200.00	\$ 40,400.00	\$ 16,085.00	\$ 32,170.00
\$ 47.500	\$ 127,300.00	\$ 73.20	\$ 196,176.00	\$ 46.00	\$ 123,280.00
\$ 76.500	\$ 14,535.00	\$ 134.00	\$ 25,460.00	\$ 72.00	\$ 13,680.00
\$ 98.000	\$ 6,860.00	\$ 191.00	\$ 13,370.00	\$ 110.00	\$ 7,700.00
\$ 122.000	\$ 39,040.00	\$ 214.00	\$ 68,480.00	\$ 123.00	\$ 39,360.00
\$ 136.000	\$ 21,760.00	\$ 199.00	\$ 31,840.00	\$ 145.00	\$ 23,200.00
\$ 186.000	\$ 71,610.00	\$ 227.00	\$ 87,395.00	\$ 205.00	\$ 78,925.00
\$ 215.000	\$ 38,700.00	\$ 237.00	\$ 42,660.00	\$ 195.00	\$ 35,100.00
\$ 145.000	\$ 6,380.00	\$ 305.00	\$ 13,420.00	\$ 309.00	\$ 13,596.00
\$ 190.000	\$ 7,980.00	\$ 332.00	\$ 13,944.00	\$ 415.00	\$ 17,430.00
\$ 415.000	\$ 2,490.00	\$ 533.00	\$ 3,198.00	\$ 815.00	\$ 4,890.00
\$ 650.000	\$ 28,600.00	\$ 628.00	\$ 27,632.00	\$ 625.00	\$ 27,500.00
\$ 715.000	\$ 30,030.00	\$ 700.00	\$ 29,400.00	\$ 740.00	\$ 31,080.00
\$ 1,150.000	\$ 2,300.00	\$ 1,090.00	\$ 2,180.00	\$ 1,300.00	\$ 2,600.00
\$ 1,110.000	\$ 106,560.00	\$ 1,460.00	\$ 140,160.00	\$ 1,540.00	\$ 147,840.00
\$ 14,870.000	\$ 29,740.00	\$ 16,800.00	\$ 33,600.00	\$ 18,100.00	\$ 36,200.00
	\$ 1,745,560.00		\$ 2,023,596.80		\$ 2,346,609.20

Recap of Wage Differential

- Divt 9 weeks 6 gms

group 2

$$\begin{aligned} 56.26 \times 6 &= 337.56 \text{ Pr/Hr} \times 40 \text{ hrs} = 13,502.40 \text{ wk} \times 9 = 121,521.60 \\ \text{of } 74.14 \times 6 &= 444.84 \text{ Pr/Hr} \times 20 \text{ hrs} = 8,896.80 \text{ wk} \times 9 = 80,071.20 \end{aligned}$$

- Box culv. 1 week 5 gms

group 2 / Laborer

$$\begin{aligned} 56.26 \times 3 &= 168.78 \text{ Pr/Hr} \times 40 = 6,751.20 \\ \text{of } 74.14 \times 3 &= 222.42 \text{ Pr/Hr} \times 15 = 3,336.30 \end{aligned}$$

- Labor Box culv.

$$\begin{aligned} 46.89 \times 2 &= 93.78 \text{ hr} \times 40 = 3,751.20 \\ \text{of } 61.32 \times 2 &= 122.64 \text{ hr} \times 15 = 1,839.60 \end{aligned}$$

culverts 3 weeks 5 gms

group 2 / laborer

$$\begin{aligned} 56.26 \times 2 &= 112.52 \text{ Pr/hr} \times 40 & 4,500.80 \times 3 &= 13,502.40 \\ \text{of } 74.14 \times 2 &= 148.28 \text{ Pr/hr} \times 20 & 2,965.60 \times 3 &= 8,896.80 \end{aligned}$$

lab

$$\begin{aligned} 46.89 \times 3 &= 140.67 \text{ Pr/Hr} \times 40 & 5,626.80 \times 3 &= 16,880.40 \\ 61.32 \times 3 &= 183.96 \text{ Pr/Hr} \times 20 & 3,679.20 \times 3 &= 11,037.60 \end{aligned}$$

Total 267,588.30

Dirt 9 weeks 6 guys

$$35 \times 3 = 105 \times 40 = 4,200 \times 9 = 37,800$$

$$53 \times 3 = 159 \times 20 = 3,180 \times 9 = 28,620$$

$$24 \times 3 = 72 \times 40 = 2,800 \times 9 = 25,200$$

$$36 \times 3 = 108 \times 20 = 2,160 \times 9 = 19,440$$

Box 1 week 5 guys

$$35 \times 2 = 70 \times 40 = 2,800$$

$$53 \times 2 = 106 \times 15 = 1,590$$

$$24 \times 3 = 72 \times 40 = 2,800$$

$$36 \times 3 = 108 \times 15 = 1,620$$

Culverts 3 weeks 5 guys

$$35 \times 2 = 70 \times 40 = 2,800 \times 3 = 8,400$$

$$53 \times 2 = 106 \times 20 = 2,120 \times 3 = 6,360$$

$$24 \times 3 = 72 \times 40 = 2,800 \times 3 = 8,400$$

$$36 \times 3 = 108 \times 20 = 2,160 \times 3 = 6,480$$

149,510