

CASS COUNTY HIGHWAY DEPARTMENT

PROJECT NO. CH1802 GRADING, HBP, CEMENT STABILIZATION, WATERMAIN, RCB INSTALLATION, & IN CASS COUNTY HIGHWAY 10 FROM CASSETON TO CASS COUNTY HIGHWAY 11												
		ESTIMATED QUANTITIES		ENGINEER'S ESTIMATE		GLADEN CONSTRUCTION, INC. 40739 US 71 LAPORTE, MN 56461		BORDER STATES PAVING, INC. PO BOX 2586 FARGO, ND 58108		CENTRAL SPECIALTIES, INC. 6325 COUNTY ROAD 87 SW ALEXANDRIA, MN 56308		
ITEM	SPEC NO.	DESCRIPTION	UNITS	APPROX.	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
1	103	CONTRACT BOND	L SUM	1	\$20,000.00	\$20,000.00	\$41,000.00	\$41,000.00	\$25,000.00	\$25,000.00	\$20,000.00	\$20,000.00
2	201	CLEARING & GRUBBING	L SUM	1	\$10,000.00	\$10,000.00	\$3,500.00	\$3,500.00	\$5,250.00	\$5,250.00	\$10,000.00	\$10,000.00
3	202	REMOVAL OF BITUMINOUS SURFACING	SY	3,986	\$7.00	\$27,902.00	\$3.45	\$13,751.70	\$5.00	\$19,930.00	\$4.25	\$16,940.50
4	202	REMOVAL OF CONCRETE PAVEMENT	SY	1,416	\$7.00	\$9,912.00	\$20.20	\$28,603.20	\$8.15	\$11,540.40	\$4.35	\$6,159.60
5	202	REMOVAL OF CURB & GUTTER	LF	1,290	\$10.00	\$12,900.00	\$4.15	\$5,353.50	\$5.00	\$6,450.00	\$6.40	\$8,256.00
6	202	REMOVE INLET STRUCTURE	EA	2	\$1,000.00	\$2,000.00	\$1,250.00	\$2,500.00	\$421.00	\$842.00	\$1,500.00	\$3,000.00
7	202	REMOVE BOX CULVERT STRUCTURE	EA	1	\$10,000.00	\$10,000.00	\$6,500.00	\$6,500.00	\$7,070.00	\$7,070.00	\$16,150.00	\$16,150.00
8	202	REMOVAL OF CULVERTS & PIPES - ALL TYPES & SIZES	LF	2,110	\$10.00	\$21,100.00	\$38.00	\$80,180.00	\$11.60	\$24,476.00	\$19.15	\$40,406.50
9	202	REMOVAL OF ACP WATERMAIN PIPE	LF	716	\$70.00	\$50,120.00	\$75.00	\$53,700.00	\$51.50	\$36,874.00	\$95.00	\$68,020.00
10	203	COMMON EXCAVATION - TYPE A	CY	2,593	\$10.00	\$25,927.70	\$14.00	\$36,298.78	\$9.45	\$24,501.68	\$11.30	\$29,298.30
11	203	COMMON EXCAVATION - TYPE B	CY	115,525	\$7.00	\$808,672.55	\$5.83	\$673,508.71	\$4.20	\$485,203.53	\$3.90	\$450,546.14
12	203	COMMON EXCAVATION - WASTE	CY	5,000	\$10.00	\$50,000.00	\$2.00	\$10,000.00	\$12.10	\$60,500.00	\$9.90	\$49,500.00
13	203	BORROW EXCAVATION	CY	5,000	\$10.00	\$50,000.00	\$2.00	\$10,000.00	\$13.70	\$68,500.00	\$14.90	\$74,500.00
14	203	TOPSOIL	CY	74,554	\$5.00	\$372,770.00	\$3.96	\$295,233.84	\$4.20	\$313,126.80	\$3.75	\$279,577.50
15	203	TOPSOIL - IMPORTED	CY	7,136	\$10.00	\$71,360.00	\$4.00	\$28,544.00	\$4.20	\$29,971.20	\$8.00	\$57,088.00
16	203	MATERIAL TESTING	L SUM	1	\$30,000.00	\$30,000.00	\$50,000.00	\$50,000.00	\$14,400.00	\$14,400.00	\$26,475.84	\$26,475.84
17	210	CLASS 2 EXCAVATION - BOX CULVERT	EA	5	\$2,500.00	\$12,500.00	\$6,500.00	\$32,500.00	\$3,260.00	\$16,300.00	\$11,400.00	\$57,000.00
18	210	FOUNDATION PREPARATION - BOX CULVERT	EA	5	\$2,500.00	\$12,500.00	\$4,500.00	\$22,500.00	\$1,440.00	\$7,200.00	\$7,500.00	\$37,500.00
19	210	COARSE AGGREGATE - 1.5IN ROCK	CY	275	\$60.00	\$16,500.00	\$56.60	\$15,565.00	\$83.10	\$22,852.50	\$56.75	\$15,606.25
20	210	FOUNDATION FILL - BOX CULVERT	CY	759	\$25.00	\$18,975.00	\$6.00	\$4,554.00	\$47.30	\$35,900.70	\$54.65	\$41,479.35
21	210	FLOWABLE FILL	CY	25	\$200.00	\$5,000.00	\$215.00	\$5,375.00	\$294.00	\$7,350.00	\$203.25	\$5,081.25
22	216	WATER	M GAL	660	\$25.00	\$16,500.00	\$30.00	\$19,800.00	\$20.00	\$13,200.00	\$30.00	\$19,800.00
23	234	CEMENT STABILIZED SUBGRADE - 12IN	SY	147,088	\$2.00	\$294,176.00	\$1.20	\$176,505.60	\$1.55	\$227,986.40	\$1.25	\$183,860.00
24	234	BASE ONE STABILIZED BLENDED BASE	SY	171,603	\$1.25	\$214,503.75	\$0.56	\$96,097.68	\$0.70	\$120,122.10	\$0.55	\$94,381.65
25	251	SEEDING CLASS III	ACRE	116.66	\$1,000.00	\$116,660.00	\$470.00	\$54,830.20	\$494.00	\$57,630.04	\$470.00	\$54,830.00
26	251	TEMPORARY COVER CROP	ACRE	17.69	\$1,500.00	\$26,535.00	\$85.00	\$1,503.65	\$89.40	\$1,581.49	\$85.00	\$1,503.65
27	253	STRAW MULCH	ACRE	109.76	\$350.00	\$38,416.00	\$268.00	\$29,415.68	\$282.00	\$30,952.32	\$268.00	\$29,415.68
28	253	HYDRAULIC MULCH	ACRE	6.90	\$2,000.00	\$13,800.00	\$1,350.00	\$9,315.00	\$1,420.00	\$9,798.00	\$1,350.00	\$9,315.00
29	255	EROSION CONTROL BLANKET TYPE 1	SY	810	\$2.00	\$1,620.00	\$1.35	\$1,093.50	\$1.40	\$1,134.00	\$1.35	\$1,093.50
30	256	RIPRAP - GRADE II	CY	226	\$40.00	\$9,040.00	\$83.00	\$18,758.00	\$103.00	\$23,278.00	\$93.00	\$21,018.00
31	256	SALVAGE RIPRAP	CY	62	\$20.00	\$1,240.00	\$52.00	\$3,224.00	\$32.60	\$2,021.20	\$40.00	\$2,480.00
32	261	TEMPORARY FIBER ROLL 12IN	LF	3,150	\$4.00	\$12,600.00	\$2.15	\$6,772.50	\$2.25	\$7,087.50	\$2.15	\$6,772.50
33	261	FIBER ROLL 12IN	LF	6,330	\$3.00	\$18,990.00	\$2.15	\$13,609.50	\$2.25	\$14,242.50	\$2.15	\$13,609.50
34	302	SALVAGED BITUMINOUS BASE COURSE	CY	31,623	\$10.00	\$316,230.00	\$6.80	\$215,036.40	\$11.70	\$369,989.10	\$14.70	\$464,858.10
35	302	AGGREGATE BASE COURSE CL 5	TON	11,210	\$20.00	\$224,200.00	\$20.08	\$225,096.80	\$20.00	\$224,200.00	\$30.25	\$339,102.50
36	302	AGGREGATE BASE COURSE CL 13 MODIFIED	TON	20,756	\$22.00	\$456,632.00	\$20.08	\$416,780.48	\$18.00	\$373,608.00	\$26.30	\$545,882.80
37	302	CRUSHED CONCRETE	TON	5,821	\$20.00	\$116,420.00	\$22.88	\$133,184.48	\$21.00	\$122,241.00	\$19.85	\$115,546.85
38	408	SAWING BITUMINOUS PAVEMENT - FULL DEPTH	LF	250	\$15.00	\$3,750.00	\$5.00	\$1,250.00	\$2.10	\$525.00	\$4.00	\$1,000.00
39	408	SAWING CONCRETE	LF	250	\$15.00	\$3,750.00	\$7.50	\$1,875.00	\$3.70	\$925.00	\$6.00	\$1,500.00
40	411	MILLING PAVEMENT SURFACE - 1.5IN	SY	80	\$1.00	\$80.00	\$12.50	\$1,000.00	\$19.70	\$1,576.00	\$15.00	\$1,200.00
41	411	MILLING PAVEMENT SURFACE - FULL DEPTH	SY	103,532	\$3.00	\$310,596.00	\$2.85	\$295,066.20	\$3.95	\$408,951.40	\$4.00	\$414,128.00
42	430	RAP - SUPERPAVE FAA 42	TON	23,349	\$75.00	\$1,751,175.00	\$66.30	\$1,548,038.70	\$64.00	\$1,494,336.00	\$74.34	\$1,735,764.66
43	430	HMA INTELLIGENT COMPACTION	L SUM	1	\$25,000.00	\$25,000.00	\$3,800.00	\$3,800.00	\$3,680.00	\$3,680.00	\$30,000.00	\$30,000.00
44	430	CORED SAMPLE	EA	95	\$25.00	\$2,375.00	\$45.00	\$4,275.00	\$42.00	\$3,990.00	\$40.00	\$3,800.00
45	550	PORTLAND CEMENT	TON	4,766	\$185.00	\$881,710.00	\$185.75	\$885,284.50	\$185.00	\$881,710.00	\$176.93	\$843,248.38
46	606	10'X4' PRECAST RCB	LF	99	\$700.00	\$69,300.00	\$1,024.00	\$101,376.00	\$1,070.00	\$105,930.00	\$995.00	\$98,505.00
47	606	10'X3' PRECAST RCB	LF	38	\$600.00	\$22,800.00	\$782.00	\$29,716.00	\$857.00	\$32,566.00	\$844.00	\$32,072.00
48	606	9'X3' PRECAST RCB	LF	58	\$600.00	\$34,800.00	\$739.00	\$42,862.00	\$783.00	\$45,414.00	\$745.00	\$43,210.00
49	606	DOUBLE 9'X4' PRECAST RCB	LF	64	\$1,200.00	\$76,800.00	\$1,377.00	\$88,128.00	\$1,490.00	\$95,360.00	\$1,350.00	\$86,400.00
50	606	DOUBLE 12'X8' PRECAST RCB	LF	8	\$1,400.00	\$11,200.00	\$1,342.00	\$10,736.00	\$2,630.00	\$21,040.00	\$3,480.00	\$27,840.00
51	606	10'X4' PRECAST RCB END SECTION	EA	6	\$6,000.00	\$36,000.00	\$7,431.00	\$44,586.00	\$7,460.00	\$44,760.00	\$9,330.00	\$55,980.00
52	606	10'X3' PRECAST RCB END SECTION	EA	2	\$6,000.00	\$12,000.00	\$6,569.00	\$13,138.00	\$6,410.00	\$12,820.00	\$6,710.00	\$13,420.00
53	606	9'X3' PRECAST RCB END SECTION	EA	2	\$6,000.00	\$12,000.00	\$5,807.00	\$11,614.00	\$6,100.00	\$12,200.00	\$6,445.00	\$12,890.00
54	606	9'X4' PRECAST RCB END SECTION	EA	2	\$6,000.00	\$12,000.00	\$12,062.00	\$24,124.00	\$14,000.00	\$28,000.00	\$14,840.00	\$29,680.00
55	607	10'X4' PRECAST RCB END SECTION - REMOVE & SALVAGE	EA	6	\$1,000.00	\$6,000.00	\$2,500.00	\$15,000.00	\$1,660.00	\$9,960.00	\$1,760.00	\$10,560.00
56	607	12'X8' PRECAST RCB END SECTION - SALVAGE & RESET	EA	2	\$2,000.00	\$4,000.00	\$7,000.00	\$14,000.00	\$5,370.00	\$10,740.00	\$5,760.00	\$11,520.00
57	702	MOBILIZATION	L SUM	1	\$200,000.00	\$200,000.00	\$260,000.00	\$260,000.00	\$310,000.00	\$310,000.00	\$332,495.00	\$332,495.00
58	704	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	280	\$100.00	\$28,000.00	\$30.00	\$8,400.00	\$28.40	\$7,952.00	\$27.00	\$7,560.00
59	704	TRAFFIC CONTROL	L SUM	1	\$25,000.00	\$25,000.00	\$12,000.00	\$12,000.00	\$85,000.00	\$85,000.00	\$7,150.00	\$7,150.00
60	706	BITUMINOUS LABORATORY	L SUM	1	\$5,000.00	\$5,000.00	\$1,100.00	\$1,100.00	\$1,050.00	\$1,050.00	\$5,000.00	\$5,000.00
61	706	CONTRACTORS LABORATORY	L SUM	1	\$5,000.00	\$5,000.00	\$1,100.00	\$1,100.00	\$1,050.00	\$1,050.00	\$5,000.00	\$5,000.00
62	708	INLET PROTECTION TYPE B	EA	13	\$150.00	\$1,950.00	\$125.00	\$1,625.00	\$131.00	\$1,703.00	\$125.00	\$1,625.00
63	709	GEOTEXTILE FABRIC - TYPE R1	SY	11,192	\$3.00	\$33,576.00	\$2.26	\$25,293.92	\$1.80	\$20,145.60	\$2.85	\$31,897.20
64	709	GEOTEXTILE FABRIC - TYPE S1	SY	789	\$3.00	\$2,367.00	\$3.90	\$3,077.10	\$7.35	\$5,799.15	\$2.50	\$1,972.50
65	714	PIPE CONDUIT 15IN - STORM DRAIN	LF	235	\$50.00	\$11,750.00	\$80.80	\$18,988.00	\$46.30	\$10,880.50	\$51.00	\$11,985.00
66	714	PIPE CONDUIT 18IN - STORM DRAIN	LF	77	\$75.00	\$5,775.00	\$84.20	\$6,483.40	\$55.70	\$4,288.90	\$66.00	\$5,082.00
67	714	PIPE CONC REINF 15IN CL III - STORM DRAIN	LF	255	\$150.00	\$38,250.00	\$86.00	\$21,930.00	\$64.10	\$16,345.50	\$63.00	\$16,065.00
68	714	PIPE CONC REINF 18IN CL III - STORM DRAIN	LF	40	\$175.00	\$7,000.00	\$86.00	\$3,440.00	\$68.30	\$2,732.00	\$85.00	\$3,400.00
69	714	PIPE CONC REINF ARCH 58 X 36IN CL III - STORM DRAIN	LF	285	\$350.00	\$99,750.00	\$280.00	\$79,800.00	\$273.00	\$77,805.00	\$215.00	\$61,275.00
70	714	PIPE CONC REINF 24IN CL III	LF	222	\$140.00	\$31,080.00	\$145.40	\$32,278.80	\$81.00	\$17,982.00	\$124.00	\$27,528.00
71	714	PIPE CONC REINF 30IN CL III	LF	72	\$180.00	\$12,960.00	\$151.50	\$10,908.00	\$107.00	\$7,704.00	\$160.00	\$11,520.00
72	714	PIPE CONC REINF 42IN CL III	LF	150	\$220.00	\$33,000.00	\$219.00	\$32,850.00	\$195.00	\$29,250.00	\$203.00	\$30,450.00
73	714	PIPE CONC REINF 48IN CL III	LF	78	\$260.00	\$20,280.00	\$292.00	\$22,776.00	\$237.00	\$18,486.00	\$220.00	\$17,160.00
74	714	PIPE CONC REINF ARCH 58 X 36IN CL III	LF	120	\$300.00	\$36,000.00	\$288.00	\$34,560.00	\$296.00	\$35,520.00	\$252.00	\$30,240.00
75	714	END SECT - CONC REINF 24IN	EA	6	\$1,000.00	\$6,000.00	\$775.00	\$4,650.00	\$925.00	\$5,550.00	\$725.00	\$4,350.00
76	714	END SECT - CONC REINF 30IN	EA	2	\$1,500.00	\$3,000.00	\$958.00	\$1,916.00	\$1,090.00	\$2,180.00	\$910.00	\$1,820.00
77	714	END SECT - CONC REINF 42IN	EA	3	\$2,000.00	\$6,000.00	\$1,583.00	\$4,749.00	\$1,900.00	\$5,700.00	\$1,535.00	\$4,605.00
78	714	END SECT - CONC REINF 48IN	EA	2	\$2,500.00	\$5,000.00	\$1,860.00	\$3,720.00	\$2,340.00	\$4,680.00	\$1,760.00	\$3,520.00
79	714	END SECT - CONC REINF ARCH 58 X 36IN	EA	4	\$3,000.00	\$12,000.00	\$1,817.00	\$7,268.00	\$2,310.00	\$9,240.00	\$1,715.00	\$6,860.00
80	714	PIPE CORR STEEL .064IN 18IN	LF	120	\$35.00	\$4,200.00	\$61.30	\$7,356.00	\$47.30	\$5,676.00	\$47.00	\$5,640.00
81	714	PIPE CORR STEEL .079IN 24IN	LF	662	\$40.00	\$26,480.00	\$70.00	\$46,340.00	\$57.80	\$38,263.60		