

SHAFER, KLINE & WARREN, INC.
 3200 Penn Terrace
 Columbia, MO 65202
 (573) 442-4537

Cooper County, MO
 2017 CAPITAL IMPROVEMENT PROGRAM CULVERT REPLACEMENT
 Contract: 2017-01
 June 5, 2017

LINE	DESCRIPTION	UNIT	QUANTITY	ENGINEER'S ESTIMATE		Concrete Structures, LLC 32312 Jacket Factory Road California, MO 65018 573-301-1980		Rhad A Baker Construction, LLC 4851 County Road 219 Fulton, MO 65251 573-489-6470		Travis Hodge Hauling, LLC PO Box 164 Lake Orark, MO 65049 573-793-6600	
				UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
GOOCHES MILL RD - RR CAR CULVERT											
1	Clearing & Grubbing	L.S.	1	\$2,500.00	\$2,500.00	\$1,000.00	\$1,000.00	\$3,900.00	\$3,900.00	\$3,000.00	\$3,000.00
2	Removal of Bridge	L.S.	1	\$5,000.00	\$5,000.00	\$4,000.00	\$4,000.00	\$3,800.00	\$3,800.00	\$5,000.00	\$5,000.00
3	Embankment in Place	C.Y.	112	\$18.00	\$2,016.00	\$18.00	\$2,016.00	\$20.00	\$2,240.00	\$80.00	\$8,960.00
4	Excavation for Structure	L.S.	1	\$5,000.00	\$5,000.00	\$2,500.00	\$2,500.00	\$3,800.00	\$3,800.00	\$7,000.00	\$7,000.00
5	Porous Backfill	C.Y.	47	\$20.00	\$940.00	\$31.91	\$1,499.77	\$150.00	\$7,050.00	\$80.00	\$3,760.00
6	3" Clean Aggregate Base Course (3" Layer)	S.Y.	270	\$7.00	\$1,890.00	\$6.57	\$1,773.90	\$10.00	\$2,700.00	\$30.00	\$8,100.00
7	1-1/2" Crushed Stone Surface (4" Layer)	S.Y.	270	\$9.00	\$2,430.00	\$5.00	\$1,350.00	\$9.00	\$2,430.00	\$30.00	\$8,100.00
8	Type 3 Object Markers	EACH	4	\$200.00	\$800.00	\$125.00	\$500.00	\$200.00	\$800.00	\$300.00	\$1,200.00
9	Fence	L.F.	40	\$8.00	\$320.00	\$12.50	\$500.00	\$40.00	\$1,600.00	\$20.00	\$800.00
10	Type 2 Rock Blanket	C.Y.	15	\$60.00	\$900.00	\$60.00	\$900.00	\$75.00	\$1,125.00	\$100.00	\$1,500.00
11	Traffic Control	L.S.	1	\$3,000.00	\$3,000.00	\$500.00	\$500.00	\$1,000.00	\$1,000.00	\$3,000.00	\$3,000.00
12	Mobilization	L.S.	1	\$6,500.00	\$6,500.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00
13	Class B-1 Concrete (Culvert Inlet/Outlet)	C.Y.	42	\$600.00	\$25,200.00	\$408.81	\$17,170.02	\$452.00	\$18,984.00	\$350.00	\$14,700.00
14	Reinforcing Steel (Grade 60)	LBS	5,300	\$1.40	\$7,420.00	\$1.10	\$5,830.00	\$0.55	\$2,915.00	\$4.00	\$21,200.00
15	10'-0" Dia.x26 L.F. R.R. Car Culvert (Fabricate/Install Only)	L.S.	1	\$10,000.00	\$10,000.00	\$5,750.00	\$5,750.00	\$3,400.00	\$3,400.00	\$7,500.00	\$7,500.00
16	Seeding, Mulch & Fertilizer	ACRE	0.02	\$10,000.00	\$200.00	\$20,000.00	\$400.00	\$75,000.00	\$1,500.00	\$75,000.00	\$1,500.00
GOOCHES MILL RD - RR CAR CULVERT TOTAL					\$74,116.00		\$50,689.69		\$62,244.00		\$100,320.00
MILLER DR - RCB CULVERT											
1	Clearing & Grubbing	L.S.	1	\$500.00	\$500.00	\$1,000.00	\$1,000.00	\$1,800.00	\$1,800.00	\$3,000.00	\$3,000.00
2	Removal of Bridge	L.S.	1	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$3,800.00	\$3,800.00	\$5,000.00	\$5,000.00
3	Embankment in Place	C.Y.	90	\$18.00	\$1,620.00	\$16.67	\$1,500.30	\$20.00	\$1,800.00	\$80.00	\$7,200.00
4	Excavation for Structure	L.S.	1	\$4,000.00	\$4,000.00	\$2,000.00	\$2,000.00	\$3,800.00	\$3,800.00	\$5,000.00	\$5,000.00
5	Porous Backfill	C.Y.	44	\$20.00	\$880.00	\$22.00	\$968.00	\$150.00	\$6,600.00	\$80.00	\$3,520.00
6	3" Clean Aggregate Base Course (3" Layer)	S.Y.	270	\$7.00	\$1,890.00	\$6.57	\$1,773.90	\$10.00	\$2,700.00	\$30.00	\$8,100.00
7	1-1/2" Crushed Stone Surface (4" Layer)	S.Y.	270	\$9.00	\$2,430.00	\$5.00	\$1,350.00	\$9.00	\$2,430.00	\$30.00	\$8,100.00
8	Type 3 Object Markers	EACH	4	\$200.00	\$800.00	\$125.00	\$500.00	\$200.00	\$800.00	\$300.00	\$1,200.00
9	Traffic Control	L.S.	1	\$3,000.00	\$3,000.00	\$500.00	\$500.00	\$1,000.00	\$1,000.00	\$3,000.00	\$3,000.00
10	Mobilization	L.S.	1	\$6,000.00	\$6,000.00	\$3,000.00	\$3,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00
11	Class B-1 Concrete (RCB Culvert)	C.Y.	45	\$600.00	\$27,000.00	\$319.00	\$14,355.00	\$415.00	\$18,675.00	\$350.00	\$15,750.00
12	Reinforcing Steel (Grade 60)	LBS	4,900	\$1.40	\$6,860.00	\$1.00	\$4,900.00	\$0.55	\$2,695.00	\$4.00	\$19,600.00
13	Seeding & Fertilizer	ACRE	0.02	\$10,000.00	\$200.00	\$20,000.00	\$400.00	\$75,000.00	\$1,500.00	\$75,000.00	\$1,500.00
MILLER DR - RCB CULVERT TOTAL					\$57,180.00		\$34,247.20		\$52,600.00		\$85,970.00
LEONARD CUTT OFF RD - RCB CULVERT											
1	Clearing & Grubbing	L.S.	1	\$1,500.00	\$1,500.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$3,000.00	\$3,000.00
2	Removal of Bridge	L.S.	1	\$3,500.00	\$3,500.00	\$2,000.00	\$2,000.00	\$3,800.00	\$3,800.00	\$5,000.00	\$5,000.00
3	Embankment in Place	C.Y.	90	\$15.00	\$1,350.00	\$18.00	\$1,620.00	\$20.00	\$1,800.00	\$80.00	\$7,200.00
4	Excavation for Structure	L.S.	1	\$5,250.00	\$5,250.00	\$2,000.00	\$2,000.00	\$3,800.00	\$3,800.00	\$5,000.00	\$5,000.00
5	Porous Backfill	C.Y.	42	\$20.00	\$840.00	\$23.81	\$1,000.02	\$150.00	\$6,300.00	\$80.00	\$3,360.00
6	3" Clean Aggregate Base Course (3" Layer)	S.Y.	270	\$7.00	\$1,890.00	\$6.57	\$1,773.90	\$10.00	\$2,700.00	\$30.00	\$8,100.00
7	1-1/2" Crushed Stone Surface (4" Layer)	S.Y.	270	\$9.00	\$2,430.00	\$5.00	\$1,350.00	\$9.00	\$2,430.00	\$30.00	\$8,100.00
8	Type 3 Object Markers	EACH	4	\$200.00	\$800.00	\$125.00	\$500.00	\$200.00	\$800.00	\$300.00	\$1,200.00
9	Traffic Control	L.S.	1	\$3,000.00	\$3,000.00	\$500.00	\$500.00	\$1,000.00	\$1,000.00	\$3,000.00	\$3,000.00
10	Mobilization	L.S.	1	\$6,500.00	\$6,500.00	\$3,000.00	\$3,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00
11	Class B-1 Concrete (RCB Culvert)	C.Y.	58	\$600.00	\$34,800.00	\$319.00	\$18,502.00	\$453.00	\$26,274.00	\$350.00	\$20,300.00
12	Reinforcing Steel (Grade 60)	LBS	4,800	\$1.40	\$6,720.00	\$1.00	\$4,800.00	\$0.55	\$2,640.00	\$4.00	\$19,200.00
13	Seeding, Mulch & Fertilizer	ACRE	0	\$10,000.00	\$200.00	\$20,000.00	\$400.00	\$75,000.00	\$1,500.00	\$75,000.00	\$1,500.00
LEONARD CUTT OFF RD - RCB CULVERT TOTAL					\$68,780.00		\$38,445.92		\$59,044.00		\$89,960.00
TOTAL CONTRACTOR					\$200,076.00		\$123,382.81		\$173,888.00		\$276,250.00

WORKING DAYS = 28

LIQUIDATED DAMAGES = \$500 PER DAY

red values = math error