

APPENDIX C: DETAILED COST ESTIMATE

- 1) Listed items should be shown in sufficient detail to evaluate the reasonableness of the cost, for example, show different pipe diameters and cost per linear foot.
- 2) Unless justification is provided in Part III Section D of the application for a different value, the Habitat Replacement Plan should be 5% of the Total Construction Cost. For further information, see FOA Section B.3.D.1. The applicant is responsible for the full cost of the HRP even if it exceeds the 5% value.
- 3) Costs must be included for NEPA compliance and cultural resources surveys.
- 4) Provisions for contingencies should be noted in the text and included in unit prices; do not show as a separate line item.

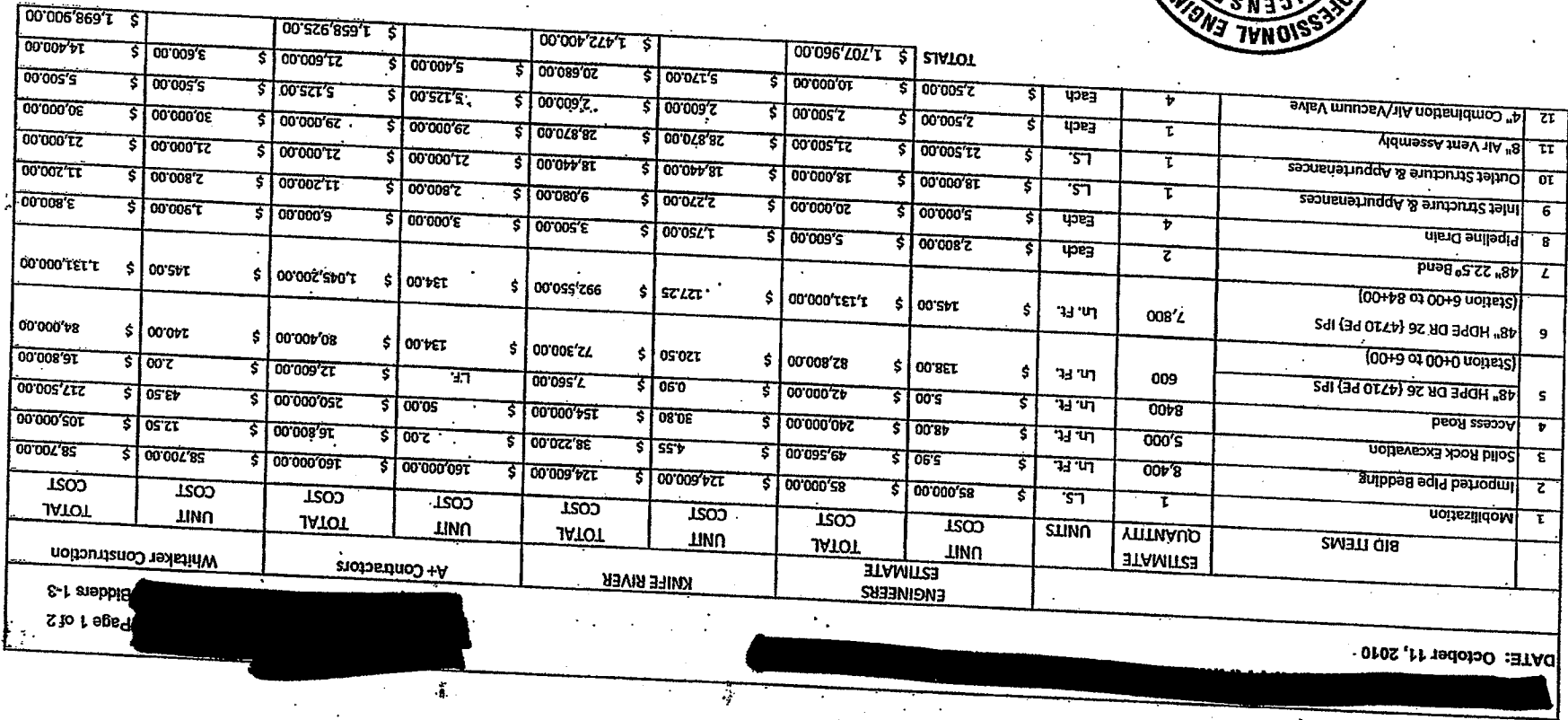
ITEM DESCRIPTION (ADD MORE LINES AS NEEDED)	QTY.	UNIT	\$/UNIT	TOTAL COST	RECLAMATION FUNDING	RECIPIENT OR OTHER FUNDING
Mobilization	1	L.S.	700,420.00	700,420	233,473	466,947
Traffic Control	1	L.S.	35,000.00	35,000	11,667	23,333
Diversion / Filter Structure	2	L.S.	190,000.00	380,000	126,667	253,333
14" HDPE DR 32.5 Water Pipe	5,000	L.F.	16.00	80,000	26,667	53,333
16" HDPE DR 32.5 Water Pipe	5,500	L.F.	20.00	110,000	36,667	73,333
20" HDPE DR 32.5 Water Pipe	16,000	L.F.	32.00	512,000	170,667	341,333
22" HDPE DR 32.5 Water Pipe	8,500	L.F.	34.00	289,000	96,333	192,667
24" HDPE DR 32.5 Water Pipe	4,500	L.F.	46.00	207,000	69,000	138,000
30" HDPE DR 32.5 Water Pipe	4,500	L.F.	55.00	247,500	82,500	165,000
32" HDPE DR 32.5 Water Pipe	8,500	L.F.	60.00	510,000	170,000	340,000
34" HDPE DR 32.5 Water Pipe	5,500	L.F.	65.00	357,500	119,167	238,333
36" HDPE DR 32.5 Water Pipe	2,500	L.F.	80.00	200,000	66,667	133,333
42" HDPE DR 32.5 Water Pipe	25,500	L.F.	90.00	2,295,000	765,000	1,530,000
48" HDPE DR 32.5 Water Pipe	22,000	L.F.	120.00	2,640,000	880,000	1,760,000
54" HDPE DR 32.5 Water Pipe	28,000	L.F.	160.00	4,480,000	1,493,333	2,986,667
Road Crossing	6	Each	8,100.00	48,600	16,200	32,400
Pipe Bedding	60,000	L.F.	11.50	690,000	230,000	460,000
Air/Vac Valves	42	Each	1,380.00	57,960	19,320	38,640
Continuous Air Release Valves	10	Each	1,700.00	17,000	5,667	11,333
Pressure Relief Valves	2	Each	2,000.00	4,000	1,333	2,667
Mainline Drain Assembly	10	Each	3,750.00	37,500	12,500	25,000
8-24" Turnouts	42	Each	8,000.00	336,000	112,000	224,000
Livestock Takeout	20	Each	850.00	17,000	5,667	11,333
Remove and Replace Existing Fence	1,200	L.F.	3.35	4,020	1,340	2,680
Reseeding	55	Acre	500.00	27,500	9,167	18,333
Removal of Structures	1	L.S.	12,000.00	12,000	4,000	8,000
TOTAL CONSTRUCTION COSTS				14,295,000	4,765,000	9,530,000
Habitat Replacement (5%)	1	L.S.	715,000	715,000	238,333	476,667
TOTAL DIRECT COSTS				15,010,000	5,003,333	10,006,667
INDIRECT COSTS						
Design	1	L.S.	985,000	985,000	328,333	656,667
NEPA Compliance	1	L.S.	80,000	80,000	26,667	53,333
Cultural Resources	1	L.S.	20,000	20,000	6,667	13,333
Construction Management	1	L.S.	1,500,000	1,500,000	500,000	1,000,000

Legal & Fiscal	1	L.S.	100,000	33,333	66,667
Aerial Photography/Survey	1	L.S.	250,000	83,333	166,667
Overhead	1	L.S.	50,000	16,667	33,333
TOTAL PROJECT COSTS				17,998,333	11,996,667

BID TABULATION

DATE: October 11, 2010

			ENGINEERS ESTIMATE			Kilroy		Edstrom Construction		
BID ITEMS			ESTIMATE QUANTITY	UNITS	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
1	Mobilization		1	L.S.	\$ 85,000.00	\$ 85,000.00	\$ 104,490.00	\$ 104,490.00	\$ 12,225.38	\$ 12,225.38
2	Imported Pipe Bedding		8,400	Ln. Ft.	\$ 5.90	\$ 49,560.00	\$ 12.00	\$ 100,800.00	\$ 1.00	\$ 8,400.00
3	Solid Rock Excavation		5,000	Ln. Ft.	\$ 48.00	\$ 240,000.00	\$ 38.00	\$ 190,000.00	\$ 104.44	\$ 522,200.00
4	Access Road		8400	Ln. Ft.	\$ 5.00	\$ 42,000.00	L.S.	\$ 109,200.00	L.F.	\$ 12,348.00
5	48" HDPE DR 26 (4710 PE) IPS (Station 0+00 to 6+00)		600	Ln. Ft.	\$ 138.00	\$ 82,800.00	\$ 134.00	\$ 80,400.00	\$ 142.86	\$ 85,716.00
6	48" HDPE DR 26 (4710 PE) IPS (Station 6+00 to 84+00)		7,800	Ln. Ft.	\$ 145.00	\$ 1,131,000.00	\$ 133.00	\$ 1,037,400.00	\$ 143.60	\$ 1,120,080.00
7	48" 22.5° Bend		2	Each	\$ 2,800.00	\$ 5,600.00	\$ 2,500.00	\$ 5,000.00	\$ 2,693.79	\$ 5,387.58
8	Pipeline Drain		4	Each	\$ 5,000.00	\$ 20,000.00	\$ 2,100.00	\$ 8,400.00	\$ 3,092.50	\$ 12,370.00
9	Inlet Structure & Appurtenances		1	L.S.	\$ 18,000.00	\$ 18,000.00	\$ 23,000.00	\$ 23,000.00	\$ 26,352.00	\$ 26,352.00
10	Outlet Structure & Appurtenances		1	L.S.	\$ 21,500.00	\$ 21,500.00	\$ 30,000.00	\$ 30,000.00	\$ 42,802.04	\$ 42,802.04
11	8" Air Vent Assembly		1	Each	\$ 2,500.00	\$ 2,500.00	\$ 1,200.00	\$ 1,200.00	\$ 4,863.77	\$ 4,863.77
12	4" Combination Air/Vacuum Valve		4	Each	\$ 2,500.00	\$ 10,000.00	\$ 4,500.00	\$ 18,000.00	\$ 3,079.85	\$ 12,319.40
TOTALS					\$ 1,707,960.00	\$ 1,707,960.00	\$ 1,707,890.00	\$ 1,707,890.00	\$ 1,865,064.17	\$ 1,865,064.17



Austin & Wall Canals Combined
HDPE DR 32.5 (50 psi) 4710 Pipeline - Open Channel Flow

Summary estimate

K+5

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	SCI suggested unit price
1	16" HDPE DR 32.5 Waterline	2,692	L.F.	\$ 15.00	\$ 25.00
2	18" HDPE DR 32.5 Waterline	4,282	L.F.	\$ 20.00	\$ 31.00
3	24" HDPE DR 32.5 Waterline	14,936	L.F.	\$ 30.00	\$ 46.00
4	26" HDPE DR 32.5 Waterline	7,447	L.F.	\$ 35.00	\$ 49.00
5	28" HDPE DR 32.5 Waterline	3,255	L.F.	\$ 40.00	\$ 78.00
6	36" HDPE DR 32.5 Waterline	3,736	L.F.	\$ 60.00	\$ 81.00
7	42" HDPE DR 32.5 Waterline	13,669	L.F.	\$ 80.00	\$ 94.00
8	48" HDPE DR 32.5 Waterline	9,776	L.F.	\$ 110.00	\$ 109.00
9	54" HDPE DR32.5 Waterline	48,106	L.F.	\$ 150.00	\$ 147.00
10	63" HDPE DR32.5 Waterline	34,374	L.F.	\$ 200.00	\$ 196.00
11	Road Crossing	6	Each	\$ 7,000.00	\$ 7,500.00
12	Pipe Bedding	142,300	L.F.	\$ 10.00	\$ 10.00
13	Air/Vac Valves	43	Each	\$ 1,200.00	\$ 2,700.00
14	Continuous Acting Air Release Valves	10	Each	\$ 1,400.00	\$ 4,500.00
15	Pressure Relief Valves	2	Each	\$ 1,500.00	\$ 4,900.00
16	Mainline Drain Assembly	4	Each	\$ 3,200.00	\$ 4,500.00
17	8"-24" Turnout	43	Each	\$ 7,000.00	\$ 13,700.00
18	Livestock Takeout	20	Each	\$ 700.00	\$ 950.00

Austin & Wall Canals Combined
HDPE DR 21 (100 psi) 4710 Pipeline - Pressurized

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	SCI suggested unit price
1	8" HDPE DR 21 Waterline	11,381	L.F.	\$ 10.00	\$ 17.00
2	10" HDPE DR 21 Waterline	1,743	L.F.	\$ 13.00	\$ 19.00
3	16" HDPE DR 21 Waterline	23,934	L.F.	\$ 17.00	\$ 29.00
4	18" HDPE DR 21 Waterline	4,834	L.F.	\$ 23.00	\$ 37.00
5	20" HDPE DR 21 Waterline	6,367	L.F.	\$ 28.00	\$ 42.00
6	24" HDPE DR 21 Waterline	15,757	L.F.	\$ 35.00	\$ 56.00
7	26" HDPE DR 21 Waterline	7,528	L.F.	\$ 40.00	\$ 64.00
8	30" HDPE DR 21 Waterline	2,019	L.F.	\$ 45.00	\$ 76.00
9	32" HDPE DR 21 Waterline	8,118	L.F.	\$ 50.00	\$ 83.00
10	34" HDPE DR 21 Waterline	1,805	L.F.	\$ 58.00	\$ 95.00
11	36" HDPE DR 21 Waterline	752	L.F.	\$ 70.00	\$ 105.00
12	42" HDPE DR 21 Waterline	21,360	L.F.	\$ 90.00	\$ 124.00
13	48" HDPE DR 21 Waterline	4,577	L.F.	\$ 125.00	\$ 158.00
14	63" HDPE DR 21 Waterline	11,923	L.F.	\$ 220.00	\$ 264.00

NOTE: PIPE FREIGHT NOT INCLUDED IN PRICING ADD APPROX. 905 LOADS @ \$800.00 EA = \$724,000.00

Price Estimate

4710 HDPE (DR 32.5, 50 psi)

High Country Fusion Quote 10/26/2010

Pipe Size	Price (\$/ft)	ft/load	Shipping \$/ft	Total \$/ft cost of pipe delivered	Fusing 10%	Labor	Total Installed
63"	\$ 155.80	50	\$30.00	\$ 185.80	\$ 15.58	\$ 12	\$ 213
54"	\$ 115.60	100	\$15.00	\$ 130.60	\$ 11.56	\$ 11	\$ 153
48"	\$ 91.34	200	\$7.50	\$ 98.84	\$ 9.13	\$ 10	\$ 118
42"	\$ 69.93	200	\$7.50	\$ 77.43	\$ 6.99	\$ 9	\$ 93
36"	\$ 51.38	200	\$7.50	\$ 58.88	\$ 5.14	\$ 8	\$ 72
28"	\$ 31.30	450	\$3.33	\$ 34.63	\$ 3.13	\$ 7	\$ 45
26"	\$ 26.80	450	\$3.33	\$ 30.13	\$ 2.68	\$ 6	\$ 39
24"	\$ 22.83	800	\$1.88	\$ 24.71	\$ 2.28	\$ 5	\$ 32
18"	\$ 12.91	1250	\$1.20	\$ 14.11	\$ 1.29	\$ 5	\$ 20
16"	\$ 10.02	1800	\$0.83	\$ 10.85	\$ 1.00	\$ 5	\$ 17

Supplier

*labor includes
tracking back for
laying pipe.*

HDPE has freight charges estimated at \$1,500 per load
4710 50 psi pipe is DR 32.5 or DR 41 depending on the manufacturer