



EXHIBIT A-2

ENGINEER'S OPINION OF PROBABLE TOTAL CONSTRUCTION COSTS

Sub-District O Water Main Extension Project

Corridor	Engineer's Cost Opinion	LF
Highwayter Road	\$158,972.00	367
Scenic Ridge Drive	\$513,095.00	1526
Decoursey Pike	\$90,684.00	464
Steep Creek Road	\$1,247,950.00	5370
Mann Road	\$172,920.00	591
Gene Street	\$325,336.00	1264
Fiskburg Road	\$982,495.80	4197
Alexander Road	\$835,796.50	2634
Elliot Road	\$1,585,600.50	4883
Total = \$5,912,849.80 21,296		



NKWD SUBDISTRICT 'O' - HIGHWATER ROAD WATER MAIN EXTENSION

Final Review 04-15-2025

Item No.	Description	Unit of Measure	Estimated Quantity	Unit Cost Total	Total Cost
1	6.01 CLASS 52 DUCTILE IRON PIPE (8"). (Detail 103, 103a, 104, 104a, 110)	LF	367	\$160.00	\$58,720.00
2	7.01 CONNECT TO EXISTING MAIN/TIE-IN (8")	EA	1	\$5,000.00	\$5,000.00
3	8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	1	\$8,000.00	\$8,000.00
4	9.01 DUCTILE IRON RESILIENT SEATED GATE VALVE (8")	EA	2	\$2,800.00	\$5,600.00
5	10.05 INSTALL WATER METER SETTING (Service line materials provided by NKWD)	EA	1	\$3,000.00	\$3,000.00
6	11.04 PLUG AND BLOCK (8")	EA	1	\$600.00	\$600.00
7	11.06 8"x8"x6" ANCHORING TEE AND BLOCK	EA	1	\$1,000.00	\$1,000.00
8	12.05 1-1/2" ASPHALTIC CONCRETE MILLING AND PAVING	SY	460	\$60.00	\$27,600.00
9	12.06 ASPHALTIC CONCRETE - TRENCH RESTORATION	SY	165	\$200.00	\$33,000.00
10	12.14 BEST MANAGEMENT PRACTICE	LS	1	\$2,000.00	\$2,000.00
SUBTOTAL					\$144,520.00
CONTINGENCIES (10%)					\$14,452.00
TOTAL BASE BID					\$158,972.00

Note: See section 01025 Measurement and Payment for bid form definitions

NKWD SUBDISTRICT 'O' - SCENIC RIDGE DRIVE WATER MAIN EXTENSION

Final Review 04-15-2025

Item No.	Description	Unit of Measure	Estimated Quantity	Unit Cost Total	Total Cost
1	6.03 C-900, C-909 Poly Vinyl Chloride (PVC) (8") (Detail 103, 103a, 104, 104a, 110)	LF	1526	\$135.00	\$206,010.00
2	7.01 CONNECT TO EXISTING MAIN/TIE-IN (8")	EA	1	\$5,000.00	\$5,000.00
3	8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	4	\$8,000.00	\$32,000.00
4	9.01 DUCTILE IRON RESILIENT SEATED GATE VALVE (8")	EA	2	\$2,800.00	\$5,600.00
5	10.05 INSTALL WATER METER SETTING (Service line materials provided by NKWD)	EA	6	\$3,000.00	\$18,000.00
6	11.04 PLUG AND BLOCK (8")	EA	1	\$600.00	\$600.00
7	11.06 8"x8"x6" ANCHORING TEE AND BLOCK	EA	4	\$1,000.00	\$4,000.00
8	12.05 1-1/2" ASPHALTIC CONCRETE MILLING AND PAVING	SY	1500	\$60.00	\$90,000.00
9	12.06 ASPHALTIC CONCRETE - TRENCH RESTORATION	SY	500	\$200.00	\$100,000.00
10	12.07 ASPHALTIC CONCRETE - DRIVEWAY	SY	22	\$150.00	\$3,240.00
11	12.14 BEST MANAGEMENT PRACTICE	LS	1	\$2,000.00	\$2,000.00
SUBTOTAL					\$466,450.00
CONTINGENCIES (10%)					\$46,645.00
TOTAL BASE BID					\$513,095.00
Note: See section 01025 Measurement and Payment for bid form definitions					

NKWD SUBDISTRICT 'O' - DECOURSEY PIKE WATER MAIN EXTENSION

Final Review 04-15-2025

Item No.	Description	Unit of Measure	Estimated Quantity	Unit Cost Total	Total Cost
1	6.01 CLASS 52 DUCTILE IRON PIPE (8"). (Detail 103, 103a, 104, 104a, 110)	LF	464	\$160.00	\$74,240.00
2	7.01 CONNECT TO EXISTING MAIN/TIE-IN (8")	EA	1	\$5,000.00	\$5,000.00
3	SPL - KYTC CHANNEL LINING, CLASS II (12") w/ NON-WOVEN GEOTEXTILE FILTER FABRIC	SY	8	\$150.00	\$1,200.00
4	12.14 BEST MANAGEMENT PRACTICE	LS	1	\$2,000.00	\$2,000.00
SUBTOTAL					\$82,440.00
CONTINGENCIES (10%)					\$8,244.00
TOTAL BASE BID					\$90,684.00
Note: See section 01025 Measurement and Payment for bid form definitions					

NKWD SUBDISTRICT 'O' - STEEP CREEK ROAD WATER MAIN EXTENSION

Final Review 04-15-2025

Item No.	Description	Unit of Measure	Estimated Quantity	Unit Cost Total	Total Cost
1	6.01 CLASS 50 DUCTILE IRON PIPE (8"). (Detail 103, 103a, 104, 104a, 110)	LF	5370	\$160.00	\$859,200.00
2	7.01 CONNECT TO EXISTING MAIN/TIE-IN (8")	EA	0	\$5,000.00	\$0.00
3	8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	6	\$8,000.00	\$48,000.00
4	9.01 DUCTILE IRON RESILIENT SEATED GATE VALVE (8")	EA	6	\$2,800.00	\$16,800.00
5	10.05 INSTALL WATER METER SETTING (Service line materials provided by NKWD)	EA	4	\$3,000.00	\$12,000.00
6	11.04 PLUG AND BLOCK (8")	EA	1	\$600.00	\$600.00
7	11.06 8"x8"x6" ANCHORING TEE AND BLOCK	EA	6	\$1,000.00	\$6,000.00
8	11.06 8"x8"x8" ANCHORING TEE AND BLOCK	EA	1	\$1,200.00	\$1,200.00
9	12.05 1-1/2" ASPHALTIC CONCRETE MILLING AND PAVING	SY	1300	\$60.00	\$78,000.00
10	12.06 ASPHALTIC CONCRETE - TRENCH RESTORATION	SY	510	\$200.00	\$102,000.00
11	12.13 GRAVEL DRIVEWAY	SY	20	\$60.00	\$1,200.00
12	SPL - KYTC CHANNEL LINING, CLASS II (12") w/ NON-WOVEN GEOTEXTILE FILTER FABRIC	SY	50	\$150.00	\$7,500.00
13	12.14 BEST MANAGEMENT PRACTICE	LS	1	\$2,000.00	\$2,000.00
SUBTOTAL					\$1,134,500.00
CONTINGENCIES (10%)					\$113,450.00
TOTAL BASE BID					\$1,247,950.00
Note: See section 01025 Measurement and Payment for bid form definitions					

NKWD SUBDISTRICT 'O' - MANN ROAD WATER MAIN EXTENSION

Final Review 04-15-2025

Item No.	Description	Unit of Measure	Estimated Quantity	Unit Cost Total	Total Cost
1	6.01 CLASS 50 DUCTILE IRON PIPE (8"). (Detail 103, 103a, 104, 104a, 110)	LF	303	\$160.00	\$48,480.00
2	6.02 CLASS 50 DUCTILE IRON PIPE (8") – RESTRAINED JOINT.	LF	288	\$170.00	\$48,960.00
3	7.01 CONNECT TO EXISTING MAIN/TIE-IN (8")	EA	1	\$5,000.00	\$5,000.00
4	8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	1	\$8,000.00	\$8,000.00
5	9.01 DUCTILE IRON RESILIENT SEATED GATE VALVE (8")	EA	1	\$2,800.00	\$2,800.00
6	10.05 INSTALL WATER METER SETTING (Service line materials provided by NKWD)	EA	4	\$3,000.00	\$12,000.00
7	11.01 CONCRETE ENCASEMENT	LF	88	\$150.00	\$13,200.00
8	11.04 PLUG AND BLOCK (8")	EA	1	\$600.00	\$600.00
9	11.06 8"x8"x6" ANCHORING TEE AND BLOCK	EA	1	\$1,000.00	\$1,000.00
10	11.11 TEST TAP	EA	1	\$3,000.00	\$3,000.00
11	12.05 1-1/2" ASPHALTIC CONCRETE MILLING AND PAVING	SY	125	\$60.00	\$7,500.00
12	12.06 ASPHALTIC CONCRETE - TRENCH RESTORATION	SY	20	\$200.00	\$4,000.00
13	12.13 GRAVEL DRIVEWAY	SY	11	\$60.00	\$660.00
14	12.14 BEST MANAGEMENT PRACTICE	LS	1	\$2,000.00	\$2,000.00
SUBTOTAL					\$157,200.00
CONTINGENCIES (10%)					\$15,720.00
TOTAL BASE BID					\$172,920.00
Note: See section 01025 Measurement and Payment for bid form definitions					

NKWD SUBDISTRICT 'O' - GENE STREET WATER MAIN EXTENSION

Final Review 04-15-2025

Item No.	Description	Unit of Measure	Estimated Quantity	Unit Cost Total	Total Cost
1	6.01 CLASS 52 DUCTILE IRON PIPE (8"). (Detail 103, 103a, 104, 104a, 110)	LF	50	\$160.00	\$8,000.00
2	6.03 C-900, C-909 Poly Vinyl Chloride (PVC) (8") (Detail 103, 103a, 104, 104a, 110)	LF	1214	\$135.00	\$163,890.00
3	7.01 CONNECT TO EXISTING MAIN/TIE-IN (8")	EA	1	\$5,000.00	\$5,000.00
4	8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	3	\$8,000.00	\$24,000.00
5	10.05 INSTALL WATER METER SETTING (Service line materials provided by NKWD)	EA	4	\$3,000.00	\$12,000.00
6	11.04 PLUG AND BLOCK (8")	EA	1	\$600.00	\$600.00
7	11.06 8"x8"x6" ANCHORING TEE AND BLOCK	EA	3	\$1,000.00	\$3,000.00
8	12.05 1-1/2" ASPHALTIC CONCRETE MILLING AND PAVING	SY	830	\$60.00	\$49,800.00
9	12.09 CONCRETE PAVEMENT - TRENCH RESTORATION	SY	100	\$200.00	\$20,000.00
10	12.10 CONCRETE DRIVEWAY	SY	31	\$150.00	\$4,650.00
11	12.13 GRAVEL DRIVEWAY	SY	47	\$60.00	\$2,820.00
12	12.14 BEST MANAGEMENT PRACTICE	LS	1	\$2,000.00	\$2,000.00
SUBTOTAL					\$295,760.00
CONTINGENCIES (10%)					\$29,576.00
TOTAL BASE BID					\$325,336.00

Note: See section 01025 Measurement and Payment for bid form definitions

NKWD SUBDISTRICT 'O' - FISKBURG ROAD WATER MAIN EXTENSION

Final Review 04-15-2025

Item No.	Description	Unit of Measure	Estimated Quantity	Unit Cost Total	Total Cost
1	6.01 CLASS 52 DUCTILE IRON PIPE (8"). (Detail 103, 103a, 104, 104a, 110)	LF	4197	\$160.00	\$671,520.00
2	7.01 CONNECT TO EXISTING MAIN/TIE-IN (8")	EA	1	\$5,000.00	\$5,000.00
3	8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	5	\$8,000.00	\$40,000.00
4	9.01 DUCTILE IRON RESILIENT SEATED GATE VALVE (8")	EA	7	\$2,800.00	\$19,600.00
5	10.05 INSTALL WATER METER SETTING (Service line materials provided by NKWD)	EA	7	\$3,000.00	\$21,000.00
6	11.04 PLUG AND BLOCK (8")	EA	1	\$600.00	\$600.00
7	11.05 AIR RELEASE VALVE (ARV and service line materials provided by NKWD)	EA	1	\$3,000.00	\$3,000.00
8	11.06 8"x8"x6" ANCHORING TEE AND BLOCK	EA	5	\$1,000.00	\$5,000.00
9	11.06 8"x8"x8" ANCHORING TEE AND BLOCK	EA	2	\$1,200.00	\$2,400.00
10	12.05 1-1/2" ASPHALTIC CONCRETE MILLING AND PAVING	SY	1100	\$60.00	\$66,000.00
11	12.06 ASPHALTIC CONCRETE - TRENCH RESTORATION	SY	245	\$200.00	\$49,000.00
12	12.10 CONCRETE DRIVEWAY	SY	22	\$150.00	\$3,270.00
13	12.13 GRAVEL DRIVEWAY	SY	80	\$60.00	\$4,788.00
14	12.14 BEST MANAGEMENT PRACTICE	LS	1	\$2,000.00	\$2,000.00
SUBTOTAL					\$893,178.00
CONTINGENCIES (10%)					\$89,317.80
TOTAL BASE BID					\$982,495.80
Note: See section 01025 Measurement and Payment for bid form definitions					

NKWD SUBDISTRICT 'O' - ALEXANDER ROAD WATER MAIN EXTENSION

Final Review 04-15-2025

Item No.	Description	Unit of Measure	Estimated Quantity	Unit Cost Total	Total Cost
1	6.01 CLASS 52 DUCTILE IRON PIPE (8") . (Detail 103, 103a, 104, 104a, 110)	LF	65	\$160.00	\$10,400.00
2	6.03 C-900, C-909 Poly Vinyl Chloride (PVC) (8") (Detail 103, 103a, 104, 104a, 110)	LF	2569	\$135.00	\$346,815.00
3	7.01 CONNECT TO EXISTING MAIN/TIE-IN (8")	EA	1	\$5,000.00	\$5,000.00
4	8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	4	\$8,000.00	\$32,000.00
5	9.01 DUCTILE IRON RESILIENT SEATED GATE VALVE (8")	EA	1	\$2,800.00	\$2,800.00
6	10.05 INSTALL WATER METER SETTING (Service line materials provided by NKWD)	EA	4	\$3,000.00	\$12,000.00
7	11.04 PLUG AND BLOCK (8")	EA	1	\$600.00	\$600.00
8	11.06 8"x8"x6" ANCHORING TEE AND BLOCK	EA	4	\$1,000.00	\$4,000.00
9	12.05 1-1/2" ASPHALTIC CONCRETE MILLING AND PAVING	SY	3000	\$60.00	\$180,000.00
10	12.06 ASPHALTIC CONCRETE - TRENCH RESTORATION	SY	800	\$200.00	\$160,000.00
11	12.07 ASPHALTIC CONCRETE - DRIVEWAY	SY	14	\$150.00	\$2,100.00
12	12.13 GRAVEL DRIVEWAY	SY	35	\$60.00	\$2,100.00
13	12.14 BEST MANAGEMENT PRACTICE	LS	1	\$2,000.00	\$2,000.00
SUBTOTAL					\$759,815.00
CONTINGENCIES (10%)					\$75,981.50
TOTAL BASE BID					\$835,796.50
Note: See section 01025 Measurement and Payment for bid form definitions					

NKWD SUBDISTRICT 'O' - ELLIOT ROAD WATER MAIN EXTENSION

Final Review 04-15-2025

Item No.	Description	Unit of Measure	Estimated Quantity	Unit Cost Total	Total Cost
1	6.01 CLASS 52 DUCTILE IRON PIPE (8") . (Detail 103, 103a, 104, 104a, 110)	LF	54	\$160.00	\$8,640.00
2	6.03 C-900, C-909 Poly Vinyl Chloride (PVC) (8") (Detail 103, 103a, 104, 104a, 110)	LF	4829	\$135.00	\$651,915.00
3	7.01 CONNECT TO EXISTING MAIN/TIE-IN (16")	EA	1	\$7,000.00	\$7,000.00
4	8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	7	\$8,000.00	\$56,000.00
5	9.01 DUCTILE IRON RESILIENT SEATED GATE VALVE (8")	EA	3	\$2,800.00	\$8,400.00
6	10.05 INSTALL WATER METER SETTING (Service line materials provided by NKWD)	EA	6	\$3,000.00	\$18,000.00
7	11.04 PLUG AND BLOCK (8")	EA	1	\$600.00	\$600.00
8	11.06 8"x8"x6" ANCHORING TEE AND BLOCK	EA	7	\$1,000.00	\$7,000.00
9	12.05 1-1/2" ASPHALTIC CONCRETE MILLING AND PAVING	SY	5500	\$60.00	\$330,000.00
10	12.06 ASPHALTIC CONCRETE - TRENCH RESTORATION	SY	1650	\$200.00	\$330,000.00
11	12.07 ASPHALTIC CONCRETE - DRIVEWAY	SY	89	\$150.00	\$13,350.00
12	12.10 CONCRETE DRIVEWAY	SY	33	\$150.00	\$4,950.00
13	12.13 GRAVEL DRIVEWAY	SY	60	\$60.00	\$3,600.00
14	12.14 BEST MANAGEMENT PRACTICE	LS	1	\$2,000.00	\$2,000.00
SUBTOTAL					\$1,441,455.00
CONTINGENCIES (10%)					\$144,145.50
TOTAL BASE BID					\$1,585,600.50
Note: See section 01025 Measurement and Payment for bid form definitions					