VIRGIN ISLANDS WATER & POWER AUTHORITY

QUEEN MARY HIGHWAY UNDERGROUND ELECTRIC CONSTRUCTION PROJECT-PHASE 1

FEEDER 9B Construction Revision #3 Bid Form 04-26-24

ST. CROIX, U.S. VIRGIN ISLANDS

Item	Quantity	Unit	Description	Unit Cost	Total Cost
			GENERAL		
1	1	Lot	Mobilization		
2	1	Lot	Bonding: Bid Guarantee, Performance Bond, Payment Bond		
3	1	Lot	Construction Impact Mitigation including Stormwater / Sediment & Erosion Control, Dust Control, Dewatering, noise control, vibration control, landscaping & tree protection		
4	1	Lot	Traffic Control/Traffic Control Devices/Road Closure Permits		
5	1	Lot	Specialty Consulting Services (Arborist, Archeologist, Surveyor, Civil Engineer, SUE Engineer)		
6	1	Lot	Project Cleanup, Punchlist, Demobilization & Closeout (including record docs)		
Subtotal General					
			CIVIL WORK		
7			Duct Banks: Including roadway/sidewalk cutting, excavation, PVC conduits, spacers, elbows, couplings, pull lines, warning tape, concrete envelope (where required per section details), Control Density Fill, Select Fill. Refer to Drawing #E-103 for duct bank section details.		
7-A	214	Linear Feet	Duct Bank Section A-A: 4-6” PVC in Concrete /CDF (Refer to Drawing E-103 for Duct Bank Details)		
7-B	2,850	Linear Feet	Duct Bank Section B-B: 4-6", 2-4" PVC in CDF (Refer tp Drawing E-103 for Duct Bank Details)		
7-C	781	Linear Feet	Duct Bank Section C-C: 4-6”, 5-4" PVC in Concrete - (Refer to Drawing E-103 for Duct Bank Details)		
7-D	740	Linear Feet	Duct Bank Section D-D: 4-6”, 4-4" PVC in Concrete - (Refer to Drawing E-103 for Duct Bank Details)		
7-E	2,461	Linear Feet	Duct Bank Section E-E: 4-6”,1-4" PVC in Concrete (Refer to Drawing E-103 for Duct Bank Sections)		
7-F	16	Linear Feet	Duct Bank Section F-F: 2-6” PVC in Concrete (Refer to Drawing E-103 for Duct Bank Details)		
7-G	0	Linear Feet	Duct Bank Section G-G: 4-6",2-4",1-2"PVC in Concrete (Refer to Drawing 103 for Duct Bank Details)		
7-H	4,420	Linear Feet	Duct Bank Section H-H: 3-4" PVC in CDF (Refer to Drawing E-103 for Duct Bank Details)		
7-J	1,119	Linear Feet	Duct Bank Section J-J: 2-4"PVC IN CDF (Refer to Drawing E-103 for Duct Bank Details)		
7-K	82	Linear Feet	Duct Bank Section K-K: 4-6", 2-2" PVC in Concrete (Refer to Drawing E-103 for Duct Bank Details)		
7-L	28	Linear Feet	Duct Bank Section L-L: 4-6", 2-4" PVC in Concrete (Refer to Drawing E-103 for Duct Bank Details)		
7-M	39	Linear Feet	Duct Bank Section M-M: 4-6",7-4",2-2"PVC In Concrete (Refer to Drawing E-103 for Duct Bank Details)		
7-N	0	Linear Feet	Duct Bank Section N-N:2-2",1-4"PVC in CDF (Refer to Drawing E-103 for Duct Bank Details)		
7-O	0	Linear Feet	Duct Bank Section:O-O: 2-2"PVC in Clean Sand/Select fill around Conduit (Refer to Drawing E-103 for Duct Bank Details)		
7-P	343	Linear Feet	Duct Bank Section P-P:1-4"PVC in CDF (Refer to Drawing E-103 for Duct Bank Details)		
7-Q	726	Linear Feet	Duct Bank Section Q-Q: 4-6'",3-4"PVC In Concrete (Refer to Drawing E-103 for Duct Bank Details)		

Item	Quantity	Unit	Description	Unit Cost	Total Cost
7-R	0	Linear Feet	Duct Bank Section:R-R: 1-2"PVC in Clean Sand/Select fill around Conduit (Refer to Drawing E-103 for Duct Bank Details)		
7-S	73	Linear Feet	Duct Bank Section S-S: 4-6", 5-4",2-2" PVC in Concrete - (Refer to Drawing E-103 for Duct Bank Details)		
7-T	208	Linear Feet	Duct Bank Section T-T: 2-6",1-4" PVC in Concrete (Refer to Drawing E-103 for Duct Bank Details)		
7-U	0	Linear Feet	Duct Bank Section U-U: 4-6", 6-4",2-2" PVC in Concrete - (Refer to Drawing E-103 for Duct Bank Details)		
7-V	177	Linear Feet	Duct Bank Section V-V: 4-6", 2-4",2-2" PVC in Concrete - (Refer to Drawing E-103 for Duct Bank Details)		
7-W	0	Linear Feet	Duct Bank Section W-W: 4-6",3-4",2-2" PVC in Concrete (Refer to Drawing E-103 for Duct Bank Details)		
7-X	0	Linear Feet	Duct Bank Section X-X: 2-4",2-2" PVC in Concrete - (Refer to Drawing E-103 for Duct Bank Details)		
7-Y	7	Linear Feet	Duct Bank Section Y-Y: 4-4" PVC in Concrete - (Refer to Drawing E-103 for Duct Bank Details)		
7-Z	177	Linear Feet	Duct Bank Section Z-Z: 4-6", 4-4" PVC in Concrete - (Refer to Drawing E-103 for Duct Bank Details)		
7-AA	16	Linear Feet	Duct Bank Section AA-AA: 2-6",2-4" PVC in Concrete - (Refer to Drawing E-103 for Duct Bank Details)		
7-CC	1,200	Linear Feet	Secondary Duct Bank, 1-4" PVC Direct Burial or CDF		
7-DD	350	Linear Feet	Secondary Duct Bank, 1-2" PVC Direct Burial or CDF		
8-A	11	Each	8'W x 6'L x 6'-6'"D Electric Manhole: Including roadway/sidewalk cutting, excavation, concrete forms (if cast in place), delivery & storage (if precast), concrete, rebar, back fill, heavy duty frame & cover		
8-B	12	Each	4'W x 4'L x 4'D Communications Handhole: Including excavation, concrete forms (if cast in place), delivery & storage (if precast), concrete, rebar, back fill, heavy duty frame & cover		
8-C	1	Each	Furnish and Install Primary Handhole		
8-D	1	Each	Break into existing manhole #EMH-11 and existing handhole #CMH-8 to extend the new duct bank into the manhole and handhole		
9-A	5	Each	Switchgear Pad (standard)		
9-B	6	Each	Three Phase Transformer Pad (standard)		
9-C	3	Each	Primary Metering Cabinet Pad (standard)		
9-D	4	Each	Single Phase Transformer Pad (standard)		
9-E	1	Each	Switchgear, Transformer, Metering Cabinet Custom Pad		
9-F	50	Each	Furnish & Install Protective Bollards (Per detail on Drawings)		
9-G	3	Each	Main Feeder Sectionalizing Cabinet Pad (standard)		
9-H	2	Each	Lateral Feeder Sectionalizing Cabinet Pad (standard)		
10-A	1	Each	Primary riser pole (main feeder) civil work including Rigid Aluminum conduits, concrete encasement, and support brackets, per detail on dwg. #E-100		
10-B	12	Each	Secondary riser pole civil work including non-metallic cable sleeve		
10-C	1	Each	Pull MV cables (by EC) back and intercept existing ductbank on route 669 (Golden Grove) consisting of 3-4" PVC and extend to new EMH-11 (2-4" PVC) and CMH-11 (1-4" PVC)		

Item	Quantity	Unit	Description	Unit Cost	Total Cost
10-D	4	Each	Intercept existing primary conduits to refeed existing pad mounted transformer or switchgear. This work to be performed outside of normal working hours.		
11-A	200	Linear feet	Cut & repair concrete curbs per allowance (per detail on Dwg. #G-101)		
11-B	150	Linear Feet	Cut & repair sidewalks per allowance (per detail on Dwg. #G-101)		
11-C	106,194	Square Feet	Bituminous Pavement Replacement (one full lane width)		
12	1000	Cubic Yards	Rock Excavation: (Per allowance)		
13-A	1	Lot	Directional Boring (Mobilization/Demobilization/Pits)		
13-B	1	Lot	Directional Boring (furnish & install conduits 4-6" HDPE or PVC (with spacing) and 4-4" HDPE or PVC (no spacing required)		
13-C	1	Lot	Directional Boring (all other costs associated with the directional boring scope of work)		
Subtotal Civil					
			ELECTRICAL WORK		
14-A	4	Each	Receive, transport, rig & install 4 way pad mounted switchgear/ 1 source way, 3VFI tap ways		
14-B	2	Each	Receive, transport, rig & install 5 way pad mounted switchgear/ 1 source way, 4VFI tap ways		
14-C	4	Each	Receive, transport, rig & install 25kVA 1 phase transformer		
14-D	1	Each	Receive, transport, rig & install 50kVA 1 phase transformer		
14-E	1	Each	Receive, transport, rig & install 75kVA 1 phase transformer		
14-F	1	Each	Receive, transport, rig & install 167kVA 1 phase transformer		
14-G	2	Each	Receive, transport, rig & install 112.5kVA 3 phase transformer		
14-H	1	Each	Receive, transport, rig & install 150kVA 3 phase transformer		
14-I	3	Each	Receive, transport, rig & install 225 kVA 3 phase transformer		
14-J	0	Each	Receive, transport, rig & install 1000 kVA 3 phase transformer		
14-K	3	Each	Furnish, transport, rig & install, pad mounted main feeder Sectionalizing Cabinet (junctions & terminations are included under separate line items)		
14-L	2	Each	Furnish, transport, rig & install, pad mounted lateral feeder Sectionalizing Cabinet (junctions & terminations are included under separate line items)		
14-M	5	Each	Furnish, transport, rig & install, & connect, primary pad mounted Metering Cabinet, including CT's and PT's and instrumentation wiring		
14-N	11	Each	Furnish & install grounding & bonding in electric manholes per detail on dwg. #E-101		
15-A	6	Each	Furnish & install grounding & bonding for pad mounted switchgear		
15-B	5	Each	Furnish & install grounding & bonding for pad mounted sectionalizing cabinet		
15-C	6	Each	Furnish & install grounding & bonding for 3 phase pad mounted transformer		

Item	Quantity	Unit	Description	Unit Cost	Total Cost
15-D	7	Each	Furnish & install grounding & bonding for 1 phase pad mounted transformer		
15-E	5	Each	Furnish & install grounding & bonding for primary metering cainbet		
16-A	28,753	Linear Feet	Receive, transport, pull / install medium voltage 3 phase feeder cable (1/C #750) termination of cable to be included under cable termination category		
16-B	20,250	Linear Feet	Receive, transport, pull / install medium voltage 3 phase feeder cable (1/C #1/0), termination of cable to be included under cable termination category		
16-C	2,145	Linear Feet	Receive, transport, pull / install medium voltage 1 phase feeder cable (1/C #1/0), termination of cable to be included under cable termination category		
16-D	3,500	Linear Feet	Furnish & install 600V feeder cable (#500 kCMIL)		
16-E	1,000	Linear Feet	Furnish & install 600V feeder cable (#250 kCMIL)		
16-F	1,500	Linear Feet	Furnish & install 600V feeder cable (#1/0)		
16-G	3	Each	Furnish & Install 25kV Cold Shrink Splices for #1/0 Cable		
16-H	12	Each	Furnish & Install 25kV Cold Shrink Splices for #750 kcmil Cable		
16-I	76	Each	Furnish & install Cable Fault Indicators		
16-J	116	Each	Furnish & install, 25kV, 200A, Load break Elbow Connector for 25kV, 1/0, MV cable		
16-K	13	Each	Furnish & install, 25kV, 200A, Fused Load break Elbow Connector for 25kV, 1/0, MV cable, Tag 3B on Dwg. E-601		
16-L	54	Each	Furnish & install, 25kV, 600A, Dead Break Elbow Connector with test points for 25kV, #750 kcmil, medium voltage cable		
16-M	9	Each	Furnish & install, 25kV, reducing tap plug with stud		
16-N	34	Each	Furnish & Install 18kV elbow type Surge Arresters		
16-O	19	Each	Furnish & Install 25kV Insulating cap for 200A bushing,		
16-P	3	Each	Furnish & Install 25kV Insulating cap for 600A bushing,		
16-Q	3	Each	Furnish & install outdoor cable termination kit for #750 kcmil MV cable and support brackets		
16-R	2	Each	Furnish & install 25kV load break feed-thru inserts		
16-S	6	Each	Furnish & Install 25kV, 3 Point 200A Junction in Sectionalizing Cabinet with SS mounting bracket and parking stand		
16-T	9	Each	Furnish & Install 25kV, 4 Point Variable Junction in Sectionalizing Cabinet with SS mounting bracket and parking stand		
16-U	11	Each MH	Furnish & install manhole accessories for per bill of material on Dwg. E-100		
17-A	28,753	Linear Feet	Electrical Acceptance Testing for #750 kcmil , 25kV cable		
17-B	22,395	Linear Feet	Electrical Acceptance Testing for #1/0, 25kV cable		
17-C	6,000	Linear Feet	Electrical Acceptance Testing for 600V cable		
17-D	6	Each	Electrical Acceptance Testing for Pad Mounted Switchgear		
17-E	18	Each	Electrical Acceptance Testing for pad mounted transformers and primary metering cabinets		
Subtotal Electrical					
TOTAL LUMP SUM CONSTRUCTION BID					