VIRGIN ISLANDS WATER & POWER AUTHORITY

UNDERGROUND ELECTRIC CONSTRUCTION PROJECT

FEEDER 5A, Construction Bid Form, 01-29-24

ST. THOMAS 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, Silt Fencing, Haybacking, 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, Land Surveyor/Civil Engineer)		
6	1	Lot	Project Cleanup, Punchlist, Demobilization, Closeout		
Subtotal General					
			CIVIL WORK		
7			Duct Banks: Including roadway/sidewalk cutting,brush removal,tree removal, excavation, PVC conduits, spacers, elbows, couplings, pull lines, warning tape, Control Density Fill, Select Fill.		
7-A	30	Linear Feet	Duct Bank Section A-A: 4-6” PVC, 2-2" PVC in Concrete Envelope (Refer to Drawing E-102 for Duct Bank Details)		
7-B	830	Linear Feet	Duct Bank Section B-B: 2-4” PVC in CDF (Refer to Drawing E-102 for Duct Bank Details		
7-C	3,653	Linear Feet	Duct Bank Section C-C-: 3-4” PVC in CDF (Refer to Drawing E-102 or Duct Bank Details)		
7-D	1,499	Linear Feet	Duct Bank Section D-D: 2-2” PVC direct burial (Refer to Drawing E-102 for Duct Bank Details)		
7-E	166	Linear Feet	Duct Bank Section E-E-: 4-4” PVC in CDF (Refer to Drawing E-102 for Duct Bank Details)		
7-F	235	Linear Feet	Duct Bank Section F-F: 1-4” PVC in CDF (Refer to Drawing E-102 for Duct Bank Details)		
7-G	1,805	Linear Feet	Duct Bank Section G-G: 1-1” PVC direct burial (Refer to Drawing E-102 for Duct Bank Details)		
7-H	35	Linear Feet	Duct Bank Section H-H: 2-4" PVC, 1-2" PVC in CDF (Refer to Drawing E-102 for Duct Bank Details)		
7-J	35	Linear Feet	Duct Bank Section J-J: 1-2" in direct burial (Refer to Drawing E-102 for Duct Bank Details)		
8-A	1	Each	4’W x 4’L x 4’D Electrical Handhole: Including excavation, concrete forms (if cast in place), delivery & storage (if precast), concrete, rebar, back fill, heavy duty frame & cover		
8-B	1	Each	Furnish & Install Secondary Handholes / Junction Boxes		
8-C	2	Each	Furnish & Install Primary Handholes / Junction Boxes		
9-A	2	Each	Switchgear Pad (standard)		
9-B	7	Each	Lateral Feeder Sectionalizing Cabinet Pad (standard)		
9-C	2	Each	Three Phase Transformer Pad (standard)		
9-D	4	Each	Single Phase Transformer Pad (standard)		

Item	Quantity	Unit	Description	Unit Cost	Total Cost
9-E	30	Each	Furnish & Install Protective Bollards (Per detail on Drawings)		
10-A	1	Each	Break into existing manhole as described on Contract Drawings. This work will occur outside of normal working hours.		
10-B	1	Each	Intercept existing primary conduits to refeed to the Water Island Submarine Cable(MOP Required). This work to be performed outside of normal working hours.		
11-A	38	Square Feet	Concrete Pavement Replacement (per detail on Dwg. #G-101)		
11-B	22,080	Square Feet	Bituminous Pavement Replacement (per detail on Dwg. #G-101)		
11-C	1,450	Linear Feet	Roadway Patching (roads that do not require full lane restoration)		
12-A	500	Cubic Yard	Rock Excavation: (Allowance)		
Subtotal Civil					
			ELECTRICAL WORK		
13-A	2	Each	Receive , transport, rig & Install pad mounted switchgear (terminations are included under a separate line item)		
13-B	1	Each	Furnish, transport, rig & Install pad mounted load interrupter switchgear / Primary Metering Cabinet to remove existing switchgear.		
13-C	3	Each	Receive, transport, rig and install 1 phase, 25kVA transformer (terminations are included under a separate line item)		
13-D	1	Each	Receive, transport, rig and install 1 phase, 50kVA transformer (terminations are included under a separate line item)		
13-E	1	Each	Receive, transport, rig and install 3 phase, 75kVA transformer (terminations are included under a separate line item)		
13-F	1	Each	Receive, transport, rig and install 3 phase, 45kVA transformer (terminations are included under a separate line item)		
13-G	7	Each	Furnish, transport, rig & install, pad mounted lateral feeder Sectionalizing Cabinet (junctions & terminations are included under separate line items)		
14-A	2	Each	Furnish & install grounding & bonding for pad mounted switchgear per detail on dwg. #E-101		
14-B	7	Each	Furnish & install grounding & bonding for pad mounted sectionalizing cabinet per detail on dwg. #E-101		
14-C	2	Each	Furnish & install grounding & bonding for 3 phase pad mounted transformer per detail on dwg. #E-101		
14-D	4	Each	Furnish & install grounding & bonding for 1 phase pad mounted transformer per detail on dwg. #E-101		
15-A	414	Linear Feet	Receive, transport, pull / install medium voltage main feeder 5A cable (1-1/C #750 kcmil), Tag 1 on dwg. #E-201, termination of cable to be included under cable termination category		
15-B	15,260	Linear Feet	Receive, transport, pull / install medium voltage feeder cable (1/C #1/0) tag 2 & 3 on dwg. #E-400, termination of cable to be included under cable termination category		
16-A	3	Each	Furnish & Install 15kV Cold Shrink Splices for #1/0 AWG Cable (Tag 1A on dwg. #E-400)		

Item	Quantity	Unit	Description	Unit Cost	Total Cost
16-B	6	Each	Furnish & Install 15KV, Cold shrink Cable Splice for #750 KCMIL Cable, with 1/3 Concentric NeutralL, 100% Insulation (Exact Model # to be selected on approved cable data sheet) with Shear Bolt or Compression Connector		
16-C	77	Each	Furnish & Install 200A, 15kV Elbows (Tag 2A on dwg. #E-400)		
16-D	43	Each	Furnish & install Cable Fault Indicators (Tag 4 on dwg. #E-400)		
16-E	6	Each	Furnish & install Deadbreak Elbows, 600A, 15/25kV (Tag 5A on dwg. #E-400)		
16-F	6	Each	Furnish & install 15KV Reducing Tap Plug (Tag 6A on dwg. #E-400)		
16-G	22	Each	Furnish & Install 18kV elbow type Surge Arresters (Tag 7B on dwg. #E-400)		
16-H	6	Each	Furnish & Install Load Break Feed Thru Inserts (Tag 8A on dwg. #E-400)		
16-I	6	Each	Furnish & install outdoor termination kits, with support brackets, for #1/0 MV Cable (Tag 10A on dwg. #E-400)		
16-J	15	Each	15kV, 3 Point, 200A Junction Located in Sectionalizing Cabinet, w/ SS Mounting bracket & Parking Stand		
16-K	6	Each	15kV, 4 Point, 200A Junction Located in Sectionalizing, W/ SS Mounting Bracket & Parking Stand		
16-L	14	Each	Furnish & Install 15kV, Insulating Cap for 200A Bushings		
17-A	581	Linear Feet	Furnish & install #3/0 cu, 600 volt conductor (from transformers)		
17-B	343	Linear Feet	Furnish & install #1/0 cu, 600 volt conductor (from transformers)		
17-C	2,336	Linear Feet	Furnish & install #2 cu, 600 volt conductor (from transformers)		
17-D	2,089	Linear Feet	Furnish & install #6 cu, 600 volt conductor (from transformers)		
17-E	5,957	Linear Feet	Furnish & install #8 cu, 600 volt conductor (from transformers)		
17-F	12	Each	Furnish & install street light fixture, pole, arm, foundation, and grounding/bonding per street light fixture detail on dwg. #G-101		
17-G	48	Each	Secondary lugs / Terminations		
18-A	414	Linear Feet	Electrical Acceptance Testing for #750 kcmil , 15kV cable		
18-B	15,260	Linear Feet	Electrical Acceptance Testing for #1/0, 15kV cable		
18-C	3	Each	Electrical Acceptance Testing for Pad Mounted Switchgear		
18-D	6	Each	Electrical Acceptance Testing for Pad mounted transformers		
18-E	11,306	Each	Electrical Acceptance Testing for 600 Volt Cable		
Subtotal Electrical					
TOTAL LUMP SUM CONSTRUCTION BID					