

| NEXtera Energy- TO41 Core 6 | | |
|--|--|--------------------|
| REVISION 1 | | |
| NEXtera Energy- TO41 Core 6 -DIRECT COST | | |
| Substation Direct Costs | | Total Each Segment |
| Direct Labor, Material & Equipment Costs | 1. Station 29 New Ruland Road 345/138 kV Substation | \$ 54,287,315 |
| Direct Labor, Material & Equipment Costs | 2.Station 31 East Garden City 345/138 kV Substation Upgrades | \$ 158,123,262 |
| Direct Labor, Material & Equipment Costs | 3.Station 48 Valley Stream 345/138 kV Substation Upgrades | \$ 78,638,755 |
| Direct Labor, Material & Equipment Costs | 4.Barrett 138 kV Substation Upgrades | \$ 41,509,967 |
| Direct Labor, Material & Equipment Costs | 5.Dunwoodie 345 kV GIS Substation | \$ 38,003,264 |
| Direct Labor, Material & Equipment Costs | 6.Elwood 138 kV Substation Upgrades | \$ 4,224,612 |
| Direct Labor, Material & Equipment Costs | 7.Jamaica 138 kV Substation Upgrades | \$ 1,095,138 |
| Direct Labor, Material & Equipment Costs | 8.Newbridge 345/138 kV GIS Substation Upgrades | \$ 53,527,289 |
| Direct Labor, Material & Equipment Costs | 9.Rainey 345kV GIS Substation Upgrades | \$ 25,813,520 |
| Direct Labor, Material & Equipment Costs | 10.Shore Road 138kV Substation Upgrades | \$ 7,453,423 |
| Direct Labor, Material & Equipment Costs | 11.Sprain Brook 345kV Substation Expansion | \$ 318,036,771 |
| Direct Labor, Material & Equipment Costs | 12 - Station 36a Sprain Brook HVDC 1200MW Converter Station | \$ 316,467,326 |
| Direct Labor, Material & Equipment Costs | 13- Station 30a New Northport HVDC 1200MW Converter Station | \$ 316,424,093 |
| Direct Labor, Material & Equipment Costs | 14 - Northport 138kV GIS Substation | \$ 25,174,983 |
| Direct Labor, Material & Equipment Costs | 15.Pilgrim 138kV Substation Upgrades | \$ 1,090,486 |
| Direct Labor, Material & Equipment Costs | 16. Existing Ruland Road 138 kV Substation Upgrades | \$ 1,077,395 |
| Direct Labor, Material & Equipment Costs | 17. Existing East Garden City 138 kV Substation Upgrades | \$ 15,046,417 |
| SUBTOTAL (Costs): | | \$ 1,455,994,016 |
| CONTRACTOR MARK-UP (OH&P) | | \$ 172,825,323 |
| SUBTOTAL (AFTER MU): | | \$ 1,628,819,338 |
| CONTINGENCY ON ENTIRE PROJECT | | \$ 325,763,868 |
| Substation TOTAL: | | \$ 1,954,583,206 |
| Transmission Line Direct Costs | | Total Each Segment |
| Direct Labor, Material & Equipment Costs | Comp 4 - Dunwoodie To New Rochelle Landing 345kV Onshore UG Cables -single circuit(EGC To Dunwoodie 345 kV) | \$ 106,106,649 |
| Direct Labor, Material & Equipment Costs | Comp 4C - Sprain Brook To New Rochelle Landing Onshore 345kV UG Cables - Single circuit(Ruland To Sprain Brook 345 kV) | \$ 107,007,205 |
| Direct Labor, Material & Equipment Costs | Comp 4C - Sprain Brook To New Rochelle Landing Onshore 320kV DC UG Cables - Single circuit(Northport To Sprain Brook 320 kV DC) | \$ 89,348,530 |
| Direct Labor, Material & Equipment Costs | Comp 17. New Rochelle Landing to Hempstead Harbor Landing (Shore Road) 345kV Offshore Submarine Cables - Two circuits (two lines, single circuit each) EGC-Dunwoodie 345KV / Ruland-SprainBrook 345KV | \$ 296,059,014 |
| Direct Labor, Material & Equipment Costs | Comp 68. Northport to New Rochelle Landing 320kV DC Offshore Submarine Cables - One circuitNorthport-SprainBrook 320KV DC | \$ 302,256,116 |
| Direct Labor, Material & Equipment Costs | Comp 3 - East Garden City To Hempstead Harbor Landing 345kV Onshore UG Cables -Single circuit(EGC To Dunwoodie 345 kV) | \$ 117,895,360 |
| Direct Labor, Material & Equipment Costs | Comp 5 - Ruland To Hempstead Harbor Landing (Shore Road) 345kV Onshore UG Cables -Single circuit(Ruland To Sprain Brook 345 kV) | \$ 196,661,987 |
| Direct Labor, Material & Equipment Costs | Comp 10A - East Graden City To Valley Stream 345kV Onshore UG Cables -Triple circuits | \$ 222,396,395 |
| Direct Labor, Material & Equipment Costs | Comp 8C - Rebuld: East Garden City - Newbridge 345kV Onshore UG Cables -Double circuits | \$ 75,390,181 |
| Direct Labor, Material & Equipment Costs | Comp 11 - Pilgram to Northport 138kV Onshore UG Cables -Single circuit(Pilgram to Northport kV) | \$ 93,067,293 |
| Direct Labor, Material & Equipment Costs | Comp 13A - Syosset - Oakwood 138 kV Onshore UG Cables -Single circuit | \$ 14,061,400 |
| Direct Labor, Material & Equipment Costs | Comp 13B - Syosset - Greenlawn 138 kV Onshore UG Cables -Single circuit | \$ 14,061,400 |
| Direct Labor, Material & Equipment Costs | Comp 113 - Jamaica to East Garden City 138 kV Onshore UG Cables -Single circuit(EGC-Jamaica 138kv) | \$ 130,556,641 |
| Direct Labor, Material & Equipment Costs | Comp XX - Ruland Road - Newbridge138 kV #3 (567 Line) Onshore UG Cables -Single circuit | \$ 2,624,365 |
| Direct Labor, Material & Equipment Costs | Other Comp. 138kV Upgrades | \$ 8,268,700 |
| SUBTOTAL (Costs): | | \$ 1,775,761,238 |
| CONTRACTOR MARK-UP (OH&P) | | \$ 319,637,023 |
| SUBTOTAL (AFTER MU): | | \$ 2,095,398,261 |
| CONTINGENCY ON ENTIRE PROJECT | | \$ 419,079,652 |
| Transmission Line TOTAL: | | \$ 2,514,477,913 |
| NEXtera Energy- TO41 Core 6Total Direct Cost | | \$ 4,469,061,119 |

| NEXtera Energy- TO41 Core 6 -INDIRECT COST | | |
|---|--|--------------------|
| Substation Indirect Costs | | Total Each Segment |
| Indirect Costs | 1. Station 29 New Ruland Road 345/138 kV Substation | \$ 15,736,579 |
| Indirect Costs | 2.Station 31 East Garden City 345/138 kV Substation Upgrades | \$ 76,129,096 |
| Indirect Costs | 3.Station 48 Valley Stream 345/138 kV Substation Upgrades | \$ 24,786,200 |
| Indirect Costs | 4.Barrett 138 kV Substation Upgrades | \$ 14,212,557 |
| Indirect Costs | 5.Dunwoodie 345 kV GIS Substation | \$ 9,740,565 |
| Indirect Costs | 6.Elwood 138 kV Substation Upgrades | \$ 1,387,563 |
| Indirect Costs | 7.Jamaica 138 kV Substation Upgrades | \$ 334,752 |
| Indirect Costs | 8.Newbridge 345/138 kV GIS Substation Upgrades | \$ 11,999,373 |
| Indirect Costs | 9.Rainey 345kV GIS Substation Upgrades | \$ 7,677,720 |
| Indirect Costs | 10.Shore Road 138kV Substation Upgrades | \$ 2,393,936 |
| Indirect Costs | 11.Sprain Brook 345kV Substation Expansion | \$ 97,705,743 |
| Indirect Costs | 12 - Station 36a Sprain Brook HVDC 1200MW Converter Station | \$ 35,329,140 |
| Indirect Costs | 13- Station 30a New Northport HVDC 1200MW Converter Station | \$ 30,991,771 |
| Indirect Costs | 14 - Northport 138kV GIS Substation | \$ 4,620,516 |
| Indirect Costs | 15.Pilgrim 138kV Substation Upgrades | \$ 347,380 |
| Indirect Costs | 16. Existing Ruland Road 138 kV Substation Upgrades | \$ 356,246 |
| Indirect Costs | 17. Existing East Garden City 138 kV Substation Upgrades | \$ 4,938,374 |
| SUBTOTAL (Costs): | | \$ 338,687,512 |
| CONTRACTOR MARK-UP (OH&P) | | \$ 60,963,752 |
| SUBTOTAL (AFTER MU): | | \$ 399,651,264 |
| CONTINGENCY ON ENTIRE PROJECT | | \$ 79,930,253 |
| Substation TOTAL: | | \$ 479,581,517 |
| Transmission Line Indirect Costs | | Total Each Segment |
| Indirect Costs | Comp 4 - Dunwoodie To New Rochelle Landing 345kV Onshore UG Cables -single circuit(EGC To Dunwoodie 345 kV) | \$ 27,103,560 |
| Indirect Costs | Comp 4C - Sprain Brook To New Rochelle Landing Onshore 345kV UG Cables - Single circuit(Ruland To Sprain Brook 345 kV) | \$ 27,419,655 |
| Indirect Costs | Comp 4C - Sprain Brook To New Rochelle Landing Onshore 320kV DC UG Cables - Single circuit(Northport To Sprain Brook 320 kV DC) | \$ 23,027,188 |
| Indirect Costs | Comp 17. New Rochelle Landing to Hempstead Harbor Landing (Shore Road) 345kV Offshore Submarine Cables - Two circuits (two lines, single circuit each) EGC-Dunwoodie 345KV / Ruland-SprainBrook 345KV | \$ 74,702,824 |
| Indirect Costs | Comp 68. Northport to New Rochelle Landing 320kV DC Offshore Submarine Cables - One circuit Northport-SprainBrook 320KV DC | \$ 71,261,605 |
| Indirect Costs | Comp 3 - East Garden City To Hempstead Harbor Landing 345kV Onshore UG Cables -Single circuit(EGC To Dunwoodie 345 kV) | \$ 30,601,618 |
| Indirect Costs | Comp 5 - Ruland To Hempstead Harbor Landing (Shore Road) 345kV Onshore UG Cables -Single circuit(Ruland To Sprain Brook 345 kV) | \$ 50,420,274 |
| Indirect Costs | Comp 10A - East Graden City To Valley Stream 345kV Onshore UG Cables -Triple circuits | \$ 56,015,535 |
| Indirect Costs | Comp 8C - Rebuld: East Garden City - Newbridge 345kV Onshore UG Cables -Double circuits | \$ 18,760,576 |
| Indirect Costs | Comp 11 - Pilgram to Northport 138kV Onshore UG Cables -Single circuit(Pilgram to Northport kV) | \$ 23,919,365 |
| Indirect Costs | Comp 13A - Syosset - Oakwood 138 kV Onshore UG Cables -Single circuit | \$ 3,945,883 |
| Indirect Costs | Comp 13B - Syosset - Greenlawn 138 kV Onshore UG Cables -Single circuit | \$ 3,945,883 |
| Indirect Costs | Comp 113 - Jamaica to East Garden City 138 kV Onshore UG Cables -Single circuit(EGC-Jamaica 138kv) | \$ 33,606,126 |
| Indirect Costs | Comp XX - Ruland Road - Newbridge138 kV #3 (567 Line) Onshore UG Cables -Single circuit | \$ 1,157,351 |
| Indirect Costs | Other Comp. 138kV Upgrades | \$ 3,645,378 |
| SUBTOTAL (Costs): | | \$ 449,532,820 |
| CONTRACTOR MARK-UP (OH&P) | | \$ 80,915,908 |
| SUBTOTAL (AFTER MU): | | \$ 530,448,728 |
| CONTINGENCY ON ENTIRE PROJECT | | \$ 106,089,746 |
| Transmission Line TOTAL: | | \$ 636,538,473 |
| NEXtera Energy- TO41 Core 6 Total Indirect Cost | | \$ 1,116,119,990 |
| NEXtera Energy- TO41 Core 6 Total | | \$ 5,585,181,109 |

NEXTera Energy- TO41 Core 6

1. Station 29 New Ruland Road 345/138 kV Substation

Total: \$ 97,499,274

| NEXTera Energy- TO41 Core 6 | | | | |
|--|-----------------|---------------|---------------|---------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| 1. Station 29 New Ruland Road 345/138 kV Substation | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | \$ 1,237,904 | \$ 967,768 | \$ 556,064 | \$ 2,761,736 |
| 2. SUBSTATION FOUNDATIONS | \$ 1,784,377 | \$ 2,039,288 | \$ 1,274,555 | \$ 5,098,219 |
| 3. SUBSTATION STRUCTURES | \$ 725,707 | \$ 520,606 | \$ 307,182 | \$ 1,553,495 |
| 4. MAJOR EQUIPTMENT | \$ 20,829,008 | \$ 5,933,406 | \$ 3,767,864 | \$ 30,530,278 |
| 5. LOW VOLTAGE & CONTROL CABLE | \$ 198,656 | \$ 53,719 | \$ 10,744 | \$ 263,119 |
| 6. CONDUIT & CABLE TRENCH | \$ 3,855,740 | \$ 2,142,022 | \$ 1,153,533 | \$ 7,151,296 |
| 7. GROUND GRID | \$ 126,601 | \$ 90,776 | \$ 20,936 | \$ 238,314 |
| 8. CONTROL ENCLOSURE | \$ 3,148,429 | \$ 2,577,294 | \$ 965,135 | \$ 6,690,858 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 3,235,738 | \$ 9,109,210 | \$ 3,391,631 | \$ 15,736,579 |
| Turnkey cost (HVDC, GIS) | \$ 5,745,000 | \$ 3,447,000 | \$ 2,298,000 | \$ 11,490,000 |
| Non-Turnkey cost | \$ 29,397,161 | \$ 19,987,089 | \$ 9,149,644 | \$ 58,533,894 |
| SUBTOTAL (Costs): | \$ 35,142,161 | \$ 23,434,089 | \$ 11,447,644 | \$ 70,023,894 |
| CONTRACTOR MARK-UP (OH&P) | \$ 5,636,189 | \$ 3,804,496 | \$ 1,784,816 | \$ 11,225,501 |
| SUBTOTAL: | \$ 40,778,350 | \$ 27,238,585 | \$ 13,232,460 | \$ 81,249,395 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 8,155,670 | \$ 5,447,717 | \$ 2,646,492 | \$ 16,249,879 |
| TOTAL: | \$ 48,934,020 | \$ 32,686,303 | \$ 15,878,952 | \$ 97,499,274 |

| Description of Work: New greenfield 345 kV/138 kV Ruland Road Substation | | | | | | | | | | |
|--|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
| 1. Station 29 New Ruland Road 345/138 kV Substation | | | | | | | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | | | | |
| 1.1 | Site Clearing | 3.5 | ACRE | - | 10,800.00 | 7,200.00 | \$ - | \$ 37,800 | \$ 25,200 | \$ 63,000 |
| 1.2 | Demolition | 0 | ACRE | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 1.3 | New Access Road - 20' | 3,149 | SY | 4.85 | 7.20 | 4.80 | \$ 15,272 | \$ 22,672 | \$ 15,115 | \$ 53,059 |
| 1.4 | Strip and Dispose Top Soil | 5,647 | CY | | 24.50 | 10.50 | \$ - | \$ 138,343 | \$ 59,290 | \$ 197,633 |
| 1.5 | Site Grading- Excavation for Substation Pad | 16,940 | CY | | 9.00 | 6.00 | \$ - | \$ 152,460 | \$ 101,640 | \$ 254,100 |
| 1.6 | Site Grading- Excavation for Substation Pad-Rock excavation-Hauling and disposal | 9,148 | CY | | 21.00 | 9.00 | \$ - | \$ 192,099.60 | \$ 82,328.40 | \$ 274,428.00 |
| 1.7 | Site Grading- Fill for Substation Pad (site borrow, compacted in place) | 13,721 | CY | | 2.40 | 1.60 | \$ - | \$ 32,931 | \$ 21,954 | \$ 54,886 |
| 1.8 | Site Grading -Fill for Substation Pad (import, compacted in place) | 9,148 | CY | 25.00 | 2.40 | 1.60 | \$ 228,690 | \$ 21,954 | \$ 14,636 | \$ 265,280 |
| 1.9 | Blasting | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 1.10 | Install substation 8" pad base | 16,940 | SY | 11.00 | 6.00 | 4.00 | \$ 186,340 | \$ 101,640 | \$ 67,760 | \$ 355,740 |
| 1.11 | Site Surfacing - Aggregate 6" Thick | 16,940 | SY | 16.50 | 4.50 | 3.00 | \$ 279,510 | \$ 76,230 | \$ 50,820 | \$ 406,560 |
| 1.12 | 7' Station Fence w/ Barbed Wire & Grounding | 1,439 | LF | 13.85 | 13.85 | 6.92 | \$ 19,927 | \$ 19,927 | \$ 9,964 | \$ 49,818 |
| 1.13 | 20' Slide Gate & Grounding | 1 | EA | 8,100.00 | 3,245.00 | 1,305.00 | \$ 8,100 | \$ 3,245 | \$ 1,305 | \$ 12,650 |
| 1.14 | 4' Pedestrian gate | 1 | EA | 2,500.00 | 1,000.00 | 350.00 | \$ 2,500 | \$ 1,000 | \$ 350 | \$ 3,850 |
| 1.15 | Storm drain-15" HDPE, INFILTRATION TRENCH, INLET and Hydrodynamic Separator | 1 | LS | 446,976.00 | 115,200.00 | 76,104.00 | \$ 446,976 | \$ 115,200 | \$ 76,104 | \$ 638,280 |
| 1.16 | Seeding | 11,952 | SF | 1.50 | 1.50 | 1.00 | \$ 17,928 | \$ 17,928 | \$ 11,952 | \$ 47,808 |
| 1.17 | Erosion Control-Silt fence install & remove | 2,700 | LF | 2.41 | 3.16 | 0.72 | \$ 6,507 | \$ 8,532 | \$ 1,944 | \$ 16,983 |
| 1.18 | Temporary fencing | 1,800 | LF | 7.50 | 5.25 | 2.25 | \$ 13,500 | \$ 9,450 | \$ 4,050 | \$ 27,000 |
| 1.19 | Substation entrance with asphalt | 556 | SY | 19.50 | 26.00 | 19.50 | \$ 10,833 | \$ 14,444 | \$ 10,833 | \$ 36,111 |
| 1.20 | Concrete curb | 70 | LF | 26.00 | 27.30 | 11.70 | \$ 1,820 | \$ 1,911 | \$ 819 | \$ 4,550 |
| 1.21 | Retaining Wall | 0 | LF | 156.00 | 117.00 | 117.00 | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|--------------|
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | \$ 1,237,904 | \$ 967,768 | \$ 556,064 | \$ 2,761,736 |
| 2. SUBSTATION FOUNDATIONS | | | | | | | | | | |
| 2.1 | 345kV, Lightning mast | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | 345kV, A Frame 70' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | 345kV, Bus support-3 Ph | 48 | CY | 703.89 | 804.44 | 502.78 | \$ 33,449 | \$ 38,227 | \$ 23,892 | \$ 95,567 |
| 2.4 | 345kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.5 | 345kV, Bus support-1 Ph | 119 | CY | 703.89 | 804.44 | 502.78 | \$ 83,622 | \$ 95,567 | \$ 59,730 | \$ 238,919 |
| 2.6 | 345kV, GIS air terminal | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | 345kV, GIS support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | 345kV, GIS support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.9 | 345kV, GIS Cable sealing end | 109 | CY | 703.89 | 804.44 | 502.78 | \$ 76,780 | \$ 87,748 | \$ 54,843 | \$ 219,371 |
| 2.10 | 345kV, Cable sealing end | 11 | CY | 703.89 | 804.44 | 502.78 | \$ 7,532 | \$ 8,608 | \$ 5,380 | \$ 21,519 |
| 2.11 | 345kV, CCVT | 16 | CY | 703.89 | 804.44 | 502.78 | \$ 11,297 | \$ 12,911 | \$ 8,070 | \$ 32,278 |
| 2.12 | 345kV, Disconnect Switch | 158 | CY | 703.89 | 804.44 | 502.78 | \$ 111,495 | \$ 127,423 | \$ 79,640 | \$ 318,558 |
| 2.13 | 345/138KV, Power Transformer with oil containment | 656 | CY | 703.89 | 804.44 | 502.78 | \$ 461,749 | \$ 527,713 | \$ 329,820 | \$ 1,319,282 |
| 2.14 | 345kV, Shunt Reactor with oil containment-275MVAR | 305 | CY | 703.89 | 804.44 | 502.78 | \$ 214,685 | \$ 245,354 | \$ 153,346 | \$ 613,386 |
| 2.15 | 345kV, Shunt Reactor with oil containment-100MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.16 | 345kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.17 | 345kV, Circuit Breaker | 120 | CY | 703.89 | 804.44 | 502.78 | \$ 84,466 | \$ 96,533 | \$ 60,333 | \$ 241,332 |
| 2.18 | 345kV, Circuit Breaker (GIS), outdoor rated | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | 345Kv, Control Enclosure-BLDG with generator pad | 259 | CY | 703.89 | 804.44 | 502.78 | \$ 182,306 | \$ 208,350 | \$ 130,219 | \$ 520,875 |
| 2.20 | 345kV, Surge arrester | 48 | CY | 703.89 | 804.44 | 502.78 | \$ 33,892 | \$ 38,734 | \$ 24,209 | \$ 96,834 |
| 2.21 | 138kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.22 | 138kV, Circuit Breaker, Hybrid circuit breaker | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.23 | 138kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.24 | 138kV, Bus support-1 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.25 | 138kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.26 | 138kV, Cable sealing end | 24 | CY | 703.89 | 804.44 | 502.78 | \$ 17,062 | \$ 19,500 | \$ 12,187 | \$ 48,749 |
| 2.27 | 138kV, Surge arrester | 32 | CY | 703.89 | 804.44 | 502.78 | \$ 22,595 | \$ 25,823 | \$ 16,139 | \$ 64,556 |
| 2.28 | 138kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.29 | 138kV, A Frame 50' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.30 | Firewall Foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Precast Firewall for transformer, PARs, reactors | - | SF | 25.00 | 15.00 | 10.00 | \$ - | \$ - | \$ - | \$ - |
| 2.32 | Precast Concrete Piles-12"X80' | - | EA | 18,000.00 | 3,200.00 | 2,800.00 | \$ - | \$ - | \$ - | \$ - |
| 2.33 | Local Control Cabinet foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.34 | 138kV, GIS Enclosure-BLDG & control room | 630 | CY | 703.89 | 804.44 | 502.78 | \$ 443,448 | \$ 506,797 | \$ 316,748 | \$ 1,266,993 |
| | | | | | | | | | | |
| TOTAL - 345KV FOUNDATION | | | | | | | \$ 1,784,377 | \$ 2,039,288 | \$ 1,274,555 | \$ 5,098,219 |
| 3. SUBSTATION STRUCTURES | | | | | | | | | | |
| 3.1 | 345kV, Lightning mast | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.2 | 345kV, A Frame 70' | 0 | EA | 48,100.00 | 28,860.00 | 19,240.00 | \$ - | \$ - | \$ - | \$ - |
| 3.3 | 345kV, Bus support-3 Ph | 3 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ 25,038 | \$ 17,276 | \$ 11,517 | \$ 53,832 |
| 3.4 | 345kV, Bus support-3 Ph, low | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | 345kV, Bus support-1 Ph | 15 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ 72,150 | \$ 43,290 | \$ 28,860 | \$ 144,300 |
| 3.6 | 345kV, GIS air terminal | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | 345kV, GIS support-1 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | 345kV, GIS support-3 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | 345kV, GIS Cable sealing end | 9 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ 75,114 | \$ 51,829 | \$ 34,552 | \$ 161,495 |
| 3.10 | 345kV, Cable sealing end | 1 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ 8,346 | \$ 5,759 | \$ 3,839 | \$ 17,944 |
| 3.11 | 345kV, CCVT | 3 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ 14,430 | \$ 8,658 | \$ 5,772 | \$ 28,860 |
| 3.12 | 345kV, Disconnect Switch | 5 | EA | 19,240.00 | 11,544.00 | 7,696.00 | \$ 96,200 | \$ 57,720 | \$ 38,480 | \$ 192,400 |
| 3.13 | 138kV, Bus support-3 Ph, low | 0 | EA | 4,173.00 | 2,879.76 | 1,919.84 | \$ - | \$ - | \$ - | \$ - |
| 3.14 | 138kV, Bus support-1 Ph, low | 0 | EA | 2,782.00 | 1,919.84 | 1,279.89 | \$ - | \$ - | \$ - | \$ - |
| 3.15 | 138kV, Disconnect Switch | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.16 | 138kV, Cable sealing end | 2 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ 9,620 | \$ 5,772 | \$ 3,848 | \$ 19,240 |
| 3.17 | 138kV, Surge arrester | 6 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ 28,860 | \$ 17,316 | \$ 11,544 | \$ 57,720 |
| 3.17 | 138kV, CCVT | 0 | EA | 3,206.67 | 1,924.00 | 1,282.67 | \$ - | \$ - | \$ - | \$ - |
| 3.18 | 138kV, A Frame 50' | 0 | EA | 33,000.00 | 19,800.00 | 13,200.00 | \$ - | \$ - | \$ - | \$ - |
| 3.19 | AL. Bus Tubing, 5" SCH 80 | 750 | LF | 25.00 | 184.94 | 123.29 | \$ 18,750 | \$ 138,704 | \$ 92,469 | \$ 249,923 |
| 3.20 | AL. Bus fittings | 1 | LS | 22,500.00 | 22,500.00 | 11,250.00 | \$ 22,500 | \$ 22,500 | \$ 11,250 | \$ 56,250 |
| 3.21 | Steel grating and support beams-transformer moat | 129,840 | LB | 2.73 | 1.17 | 0.50 | \$ 354,699 | \$ 151,783 | \$ 65,050 | \$ 571,532 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SUBSTATION STRUCTURES & GAS-INSULATED CONDUCTOR | | | | | | | \$ 725,707 | \$ 520,606 | \$ 307,182 | \$ 1,553,495 |
| 4. MAJOR EQUIPMENT | | | | | | | | | | |
| 4.1 | 345kV, Cable sealing end | 3 | EA | 17,400.00 | 5,460.00 | 2,340.00 | \$ 52,200 | \$ 16,380 | \$ 7,020 | \$ 75,600 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|-------------------------------------|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 4.2 | 345kV, CCVT | 3 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ 14,430 | \$ 8,658 | \$ 5,772 | \$ 28,860 |
| 4.3 | 345kV, Disconnect Switch | 5 | EA | 57,720.00 | 34,632.00 | 23,088.00 | \$ 288,600 | \$ 173,160 | \$ 115,440 | \$ 577,200 |
| 4.4 | 345/138KV, Power Transformer with oil containment | 2 | EA | 5,020,000.00 | 3,520.00 | 880.00 | \$ 10,040,000 | \$ 7,040 | \$ 1,760 | \$ 10,048,800 |
| 4.5 | Transport & Testing- Transformer | 2 | EA | | 777,400.00 | 514,600.00 | \$ - | \$ 1,554,800 | \$ 1,029,200 | \$ 2,584,000 |
| 4.6 | 345kV, Shunt Reactor with oil containment-275MVAR | 1 | EA | 3,332,488.00 | 3,520.00 | 880.00 | \$ 3,332,488 | \$ 3,520 | \$ 880 | \$ 3,336,888 |
| 4.7 | 345kV, Shunt Reactor with oil containment-100MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.8 | Transport & Testing- Shunt Reactor | 1 | EA | | 426,650.00 | 182,850.00 | \$ - | \$ 426,650 | \$ 182,850 | \$ 609,500 |
| 4.9 | 345kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.10 | 345kV, Circuit Breaker | 2 | EA | 350,000.00 | 57,239.00 | 24,531.00 | \$ 700,000 | \$ 114,478 | \$ 49,062 | \$ 863,540 |
| 4.11 | 345kV, Circuit Breaker (GIS), outdoor rated | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.12 | 345kV, Circuit Breaker (GIS), outdoor rated-Line surge Arrester (3phase) | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.13 | 345kV, surge Arrester | 6 | EA | 6,669.00 | 5,460.00 | 2,340.00 | \$ 40,014 | \$ 32,760 | \$ 14,040 | \$ 86,814 |
| 4.14 | 138kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.15 | Transport & Testing- Phase Angle Regulating Transformer, 138kV | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.16 | 138kV, Gas Insulated Switchgear, BAAH Arrangement | 12 | BKR | 478,750.00 | 287,250.00 | 191,500.00 | \$ 5,745,000 | \$ 3,447,000 | \$ 2,298,000 | \$ 11,490,000 |
| 4.17 | 138kV, Circuit Breaker, Hybrid circuit breaker | 0 | EA | 920,000.00 | 13,559.00 | 5,811.00 | \$ - | \$ - | \$ - | \$ - |
| 4.18 | 138kV, Disconnect Switch | 0 | EA | | 3,958.50 | 1,696.50 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | 138kV, Cable sealing end | 6 | EA | 11,600.00 | 5,460.00 | 2,340.00 | \$ 69,600 | \$ 32,760 | \$ 14,040 | \$ 116,400 |
| 4.20 | 138kV, CCVT | 0 | EA | | 7,970.08 | 3,415.75 | \$ - | \$ - | \$ - | \$ - |
| 4.21 | 138kV, Surge arrester | 6 | EA | 4,446.00 | 4,200.00 | 1,800.00 | \$ 26,676 | \$ 25,200 | \$ 10,800 | \$ 62,676 |
| 4.22 | Station service transformers- 120/208v-250VA | 2 | EA | 260,000.00 | 45,500.00 | 19,500.00 | \$ 520,000 | \$ 91,000 | \$ 39,000 | \$ 650,000 |
| 4.23 | 345kV Gas-Insulated Bus Conductor | 0 | LF | 550.00 | 275.00 | 82.50 | \$ - | \$ - | \$ - | \$ - |
| 4.24 | 345kV Gas-Insulated Bus Conductor-elbow | 0 | EA | 2,500.00 | 1,250.00 | 375.00 | \$ - | \$ - | \$ - | \$ - |
| 4.25 | Transport & Testing- GIL | 0 | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | \$ - | \$ - | \$ - | \$ - |
| TOTAL - MAJOR EQUIPMENT | | | | | | | \$ 20,829,008 | \$ 5,933,406 | \$ 3,767,864 | \$ 30,530,278 |
| 5. LOW VOLTAGE & CONTROL CABLE | | | | | | | | | | |
| 5.1 | Control Cables | 37,500 | LF | 5.30 | 1.43 | 0.29 | \$ 198,656 | \$ 53,719 | \$ 10,744 | \$ 263,119 |
| 5.2 | | | LF | | - | - | \$ - | \$ - | \$ - | \$ - |
| TOTAL - LOW VOLTAGE & CONTROL CABLE | | | | | | | \$ 198,656 | \$ 53,719 | \$ 10,744 | \$ 263,119 |
| 6. CONDUIT & CABLE TRENCH | | | | | | | | | | |
| 6.1 | Conduit, PVC, 6", SCH 40 | | LF | 20.70 | 13.28 | 6.64 | \$ - | \$ - | \$ - | \$ - |
| 6.2 | Conduit, PVC, 4", SCH 40 | 6,750 | LF | 11.15 | 10.80 | 5.40 | \$ 75,263 | \$ 72,900 | \$ 36,450 | \$ 184,613 |
| 6.3 | Conduit, PVC, 3", SCH 40 | | LF | 8.10 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.4 | Conduit, PVC, 2", SCH 40 | | LF | 3.95 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.5 | Conduit, PVC, 1", SCH 40 | | LF | 1.90 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.6 | Cable Trench | 1,275 | LF | 266.50 | 53.04 | 13.26 | \$ 339,788 | \$ 67,626 | \$ 16,907 | \$ 424,320 |
| 6.7 | | | | | | | | | | |
| 6.8 | 138kV UG- Conduit | 3,499 | LF | 266.73 | 202.15 | 100.00 | \$ 933,291 | \$ 707,311 | \$ 349,917 | \$ 1,990,519 |
| 6.9 | 138kV UG- Cable | 11,022 | LF | 145.00 | 87.00 | 58.00 | \$ 1,598,168 | \$ 958,901 | \$ 639,267 | \$ 3,196,337 |
| 6.10 | 138kV UG- Termination | 30 | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ 834,150 | \$ 295,394 | \$ 84,398 | \$ 1,213,943 |
| 6.13 | Fiber Optic Cable | 3,674 | LF | 7.40 | 3.33 | 2.22 | \$ 27,176 | \$ 12,236 | \$ 8,158 | \$ 47,570 |
| 6.14 | Ground Continuity Conductor | 3,674 | LF | 13.04 | 7.53 | 5.02 | \$ 47,905 | \$ 27,654 | \$ 18,436 | \$ 93,994 |
| 6.11 | | | | | | | \$ - | \$ - | \$ - | \$ - |
| TOTAL - CONDUIT & CABLE TRENCH | | | | | | | \$ 3,855,740 | \$ 2,142,022 | \$ 1,153,533 | \$ 7,151,296 |
| 7. GROUND GRID | | | | | | | | | | |
| 7.1 | Cable, 4/0 AWG Bare Copper, 7 Strand Ground Conductor | 12,705 | LF | 2.09 | 3.42 | 1.46 | \$ 26,566 | \$ 43,391 | \$ 18,596 | \$ 88,554 |
| 7.2 | Caweld, DSA, 4/0 , T, CROSS | 351 | EA | 165.00 | 75.00 | | \$ 57,915 | \$ 26,325 | \$ - | \$ 84,240 |
| 7.3 | Ground Rod, 3/4" x 15' | 312 | EA | 135.00 | 67.50 | 7.50 | \$ 42,120 | \$ 21,060 | \$ 2,340 | \$ 65,520 |
| TOTAL - GROUND GRID | | | | | | | \$ 126,601 | \$ 90,776 | \$ 20,936 | \$ 238,314 |
| 8. CONTROL ENCLOSURE | | | | | | | | | | |
| 8.1 | 345kv Control Bldg | 1 | EA | 407,211.00 | 285,047.70 | 122,163.30 | \$ 407,211 | \$ 285,048 | \$ 122,163 | \$ 814,422 |
| 8.2 | 138kv GIS/Control Bldg | 1 | EA | 1,145,280.92 | 801,696.65 | 343,584.28 | \$ 1,145,281 | \$ 801,697 | \$ 343,584 | \$ 2,290,562 |
| 8.3 | Primary Line Relays (87L): SEL-411L | 7 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 149,297 | \$ 119,437 | \$ 29,859 | \$ 298,594 |
| 8.4 | Backup Line Relays (87L): GE L90 | 7 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 149,297 | \$ 119,437 | \$ 29,859 | \$ 298,594 |
| 8.5 | Primary Bay Control: SEL-451 | 5 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 106,641 | \$ 85,312 | \$ 21,328 | \$ 213,281 |
| 8.6 | Backup Bay Control: SEL-451 | 5 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 106,641 | \$ 85,312 | \$ 21,328 | \$ 213,281 |
| 8.7 | Primary Transformer/Reactor/PAR Differential Relays: SEL-487E | 3 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 63,984 | \$ 51,187 | \$ 12,797 | \$ 127,969 |
| 8.8 | Backup Transformer/Reactor/PAR Differential Relays: GE T60 | 3 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 63,984 | \$ 51,187 | \$ 12,797 | \$ 127,969 |
| 8.9 | Primary Bus Differential Relays: SEL-487B | 2 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |
| 8.10 | Backup Bus Differential Relays: GE B90 | 2 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |
| 8.11 | RTU Panel A: SEL-2240 Axion, SEL-2730M ENET SW., SEL-2407 GPS, Modem, SEL-2523 Ann | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.12 | RTU Panel B: SEL-2730M Ethernet Switch, SEL-2407 GPS Clock, SEL-2523 Annunciator | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.13 | HMI Panel | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.14 | Primary Line Relays (87L): SEL-411L | 3 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 63,984 | \$ 51,187 | \$ 12,797 | \$ 127,969 |
| 8.15 | Backup Line Relays (87L): GE L90 | 3 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 63,984 | \$ 51,187 | \$ 12,797 | \$ 127,969 |
| 8.16 | Primary Bay Control: SEL-451 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 8.17 | Backup Bay Control: SEL-451 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.18 | Primary Bus Differential Relays: SEL-487B | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.19 | Backup Bus Differential Relays: GE B90 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.20 | 125VDC Battery System | 4 | LS | 25,000.00 | 22,750.00 | 9,750.00 | \$ 100,000 | \$ 91,000 | \$ 39,000 | \$ 230,000 |
| 8.21 | Control house AC Panel | 3 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ 195,000 | \$ 273,000 | \$ 117,000 | \$ 585,000 |
| 8.22 | Control House DC Panel | 3 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ 195,000 | \$ 273,000 | \$ 117,000 | \$ 585,000 |
| 8.23 | Generator | 1 | EA | 130,000.00 | 72,800.00 | 31,200.00 | \$ 130,000 | \$ 72,800 | \$ 31,200 | \$ 234,000 |
| TOTAL - CONTROL ENCLOSURE | | | | | | | \$ 3,148,429 | \$ 2,577,294 | \$ 965,135 | \$ 6,690,858 |
| 1. Station 29 New Ruland Road 345/138 kV Substation | | | | | | | \$ 31,906,422 | \$ 14,324,879 | \$ 8,056,013 | \$ 54,287,315 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 9.1 | Mob / Demob | 1.0 | LS | | 582,256.23 | 249,538.38 | \$ - | \$ 582,256 | \$ 249,538 | \$ 831,795 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 9.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 427,973.15 | | \$ - | \$ 427,973 | \$ - | \$ 427,973 |
| 9.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1 | LS | | 1,711,892.59 | | \$ - | \$ 1,711,893 | \$ - | \$ 1,711,893 |
| 9.4 | Utility PM and Project Oversight | 1 | LS | | 427,973.15 | | \$ - | \$ 427,973 | \$ - | \$ 427,973 |
| 9.5 | Site Accommodation, Facilities, Storage | 1 | LS | 427,973.15 | | | \$ 427,973 | \$ - | \$ - | \$ 427,973 |
| | Engineering | | | | | | | | | |
| 9.6 | Design Engineering | 1.00 | LS | | 3,423,785.17 | | \$ - | \$ 3,423,785 | \$ - | \$ 3,423,785 |
| 9.7 | LiDAR /GPR | 1.00 | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.8 | Geotech | 5.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 13,650 | \$ 9,100 | \$ 22,750 |
| 9.9 | Surveying/Staking | 1.00 | Site | | 299,581.20 | | \$ - | \$ 299,581 | \$ - | \$ 299,581 |
| | Testing & Commissioning | | | | | | | | | |
| 9.10 | Testing & Commissioning of SS and Equipment | 1.00 | LS | | 1,604,899.30 | | \$ - | \$ 1,604,899 | \$ - | \$ 1,604,899 |
| | Permitting and Additional Costs | | | | | | | | | |
| 9.11 | Physical Security | 1.00 | LS | | 6,546.96 | | \$ - | \$ 6,547 | \$ - | \$ 6,547 |
| 9.12 | Environmental Licensing & Permitting Costs & related legal cost | 1.00 | LS | | 427,973.15 | | \$ - | \$ 427,973 | \$ - | \$ 427,973 |
| 9.13 | Environmental-special studies/investigation | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.14 | Warranties / LOC's | 1.00 | LS | | 128,391.94 | | \$ - | \$ 128,392 | \$ - | \$ 128,392 |
| 9.15 | Laydown Lease | - | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 9.16 | Real Estate (Acquisition) | 1.00 | LS | | - | 1,158,245.00 | \$ - | \$ - | \$ 1,158,245 | \$ 1,158,245 |
| 9.17 | Legal Fees (Real estate) | 1.00 | LS | | - | 34,747.35 | \$ - | \$ - | \$ 34,747 | \$ 34,747 |
| 9.18 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 9.19 | Bonds | 1 | LS | | - | \$ 1,940,000 | \$ - | \$ - | \$ 1,940,000 | \$ 1,940,000 |
| 9.20 | Sales Tax on Materials | 8.80% | LS | 31,906,422.41 | | | \$ 2,807,765 | \$ - | \$ - | \$ 2,807,765 |
| 9.21 | Fees for permits, including roadway, railroad, building or other local permits | 1.00 | LS | | 54,287.31 | | \$ - | \$ 54,287 | \$ - | \$ 54,287 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 3,235,738 | \$ 9,109,210 | \$ 3,391,631 | \$ 15,736,579 |

NEXTera Energy- TO41 Core 6

2.Station 31 East Garden City 345/138 kV Substation Upgrades

Total: \$ 326,629,659

| NEXTera Energy- TO41 Core 6 | | | | |
|--|-----------------|---------------|---------------|----------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| 2.Station 31 East Garden City 345/138 kV Substation Upgrades | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | \$ 1,520,689 | \$ 1,991,295 | \$ 1,238,557 | \$ 4,750,541 |
| 2. SUBSTATION FOUNDATIONS | \$ 4,940,586 | \$ 5,259,191 | \$ 3,304,826 | \$ 13,504,603 |
| 3. SUBSTATION STRUCTURES | \$ 1,403,520 | \$ 901,180 | \$ 499,166 | \$ 2,803,867 |
| 4. MAJOR EQUIPTMENT | \$ 83,434,236 | \$ 15,021,057 | \$ 9,912,305 | \$ 108,367,598 |
| 5. LOW VOLTAGE & CONTROL CABLE | \$ 88,998 | \$ 24,066 | \$ 4,813 | \$ 117,877 |
| 6. CONDUIT & CABLE TRENCH | \$ 8,724,708 | \$ 4,948,997 | \$ 2,709,691 | \$ 16,383,397 |
| 7. GROUND GRID | \$ 150,907 | \$ 108,737 | \$ 25,280 | \$ 284,924 |
| 8. CONTROL ENCLOSURE | \$ 5,830,727 | \$ 4,413,122 | \$ 1,666,606 | \$ 11,910,455 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 10,565,337 | \$ 26,272,726 | \$ 39,291,033 | \$ 76,129,096 |
| Turnkey cost (HVDC, GIS) | \$ 17,610,000 | \$ 10,566,000 | \$ 7,044,000 | \$ 35,220,000 |
| Non-Turnkey cost | \$ 99,049,709 | \$ 48,374,371 | \$ 51,608,278 | \$ 199,032,358 |
| SUBTOTAL (Costs): | \$ 116,659,709 | \$ 58,940,371 | \$ 58,652,278 | \$ 234,252,358 |
| CONTRACTOR MARK-UP (OH&P) | \$ 18,885,548 | \$ 9,341,347 | \$ 9,712,130 | \$ 37,939,024 |
| SUBTOTAL: | \$ 135,545,257 | \$ 68,281,718 | \$ 68,364,407 | \$ 272,191,382 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 27,109,051 | \$ 13,656,344 | \$ 13,672,881 | \$ 54,438,276 |
| TOTAL: | \$ 162,654,308 | \$ 81,938,062 | \$ 82,037,289 | \$ 326,629,659 |

| Description of Work: New East Garden City 345 kV/138 kV GIS Substation | | | | | | | | | | |
|--|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
| 2.Station 31 East Garden City 345/138 kV Substation Upgrades | | | | | | | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | | | | |
| 1.1 | Site Clearing | 0.0 | ACRE | - | 10,800.00 | 7,200.00 | \$ - | \$ - | \$ - | \$ - |
| 1.2 | Demolition | 1 | LS | - | 900,000.00 | 600,000.00 | \$ - | \$ 900,000 | \$ 600,000 | \$ 1,500,000 |
| 1.3 | New Access Road - 20' | 3,149 | SY | 4.85 | 7.20 | 4.80 | \$ 15,272 | \$ 22,672 | \$ 15,115 | \$ 53,059 |
| 1.4 | Strip and Dispose Top Soil | 0 | CY | | 24.50 | 10.50 | \$ - | \$ - | \$ - | \$ - |
| 1.5 | Site Grading- Excavation for Substation Pad | 27,443 | CY | | 9.00 | 6.00 | \$ - | \$ 246,985 | \$ 164,657 | \$ 411,642 |
| 1.6 | Site Grading- Excavation for Substation Pad-Rock excavation-Hauling and disposal | 14,819 | CY | | 21.00 | 9.00 | \$ - | \$ 311,201.35 | \$ 133,372.01 | \$ 444,573.36 |
| 1.7 | Site Grading- Fill for Substation Pad (site borrow, compacted in place) | 22,229 | CY | | 2.40 | 1.60 | \$ - | \$ 53,349 | \$ 35,566 | \$ 88,915 |
| 1.8 | Site Grading -Fill for Substation Pad (import, compacted in place) | 14,819 | CY | 25.00 | 2.40 | 1.60 | \$ 370,478 | \$ 35,566 | \$ 23,711 | \$ 429,754 |
| 1.9 | Blasting | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 1.10 | Install substation 8" pad base | 21,780 | SY | 11.00 | 6.00 | 4.00 | \$ 239,580 | \$ 130,680 | \$ 87,120 | \$ 457,380 |
| 1.11 | Site Surfacing - Aggregate 6" Thick | 21,780 | SY | 16.50 | 4.50 | 3.00 | \$ 359,370 | \$ 98,010 | \$ 65,340 | \$ 522,720 |
| 1.12 | 7' Station Fence w/ Barbed Wire & Grounding | 2,094 | LF | 13.85 | 13.85 | 6.92 | \$ 28,998 | \$ 28,998 | \$ 14,499 | \$ 72,494 |
| 1.13 | 20' Slide Gate & Grounding | 2 | EA | 8,100.00 | 3,245.00 | 1,305.00 | \$ 16,200 | \$ 6,490 | \$ 2,610 | \$ 25,300 |
| 1.14 | 4' Pedestrian gate | 2 | EA | 2,500.00 | 1,000.00 | 350.00 | \$ 5,000 | \$ 2,000 | \$ 700 | \$ 7,700 |
| 1.15 | Storm drain-15" HDPE, INFILTRATION TRENCH, INLET and Hydrodynamic Separator | 1 | LS | 446,976.00 | 115,200.00 | 76,104.00 | \$ 446,976 | \$ 115,200 | \$ 76,104 | \$ 638,280 |
| 1.16 | Seeding | 0 | SF | 1.50 | 1.50 | 1.00 | \$ - | \$ - | \$ - | \$ - |
| 1.17 | Erosion Control-Silt fence install & remove | 3,285 | LF | 2.41 | 3.16 | 0.72 | \$ 7,917 | \$ 10,381 | \$ 2,365 | \$ 20,663 |
| 1.18 | Temporary fencing | 2,190 | LF | 7.50 | 5.25 | 2.25 | \$ 16,425 | \$ 11,498 | \$ 4,928 | \$ 32,850 |
| 1.19 | Substation entrance with asphalt | 556 | SY | 19.50 | 26.00 | 19.50 | \$ 10,833 | \$ 14,444 | \$ 10,833 | \$ 36,111 |
| 1.20 | Concrete curb | 140 | LF | 26.00 | 27.30 | 11.70 | \$ 3,640 | \$ 3,822 | \$ 1,638 | \$ 9,100 |
| 1.21 | Retaining Wall | 0 | LF | 156.00 | 117.00 | 117.00 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|---|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| | | | | | | | | | | |
| TOTAL - SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | \$ 1,520,689 | \$ 1,991,295 | \$ 1,238,557 | \$ 4,750,541 |
| 2. SUBSTATION FOUNDATIONS | | | | | | | | | | |
| 2.1 | 345kV, Lightning mast | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | 345kV, A Frame 70' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | 345kV, Bus support-3 Ph | 48 | CY | 703.89 | 804.44 | 502.78 | \$ 33,449 | \$ 38,227 | \$ 23,892 | \$ 95,567 |
| 2.4 | 345kV, Bus support-3 Ph, low | 166 | CY | 703.89 | 804.44 | 502.78 | \$ 116,775 | \$ 133,457 | \$ 83,410 | \$ 333,641 |
| 2.5 | 345kV, Bus support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.6 | 345kV, GIS air terminal | 119 | CY | 703.89 | 804.44 | 502.78 | \$ 83,622 | \$ 95,567 | \$ 59,730 | \$ 238,919 |
| 2.7 | 345kV, GIS support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | 345kV, GIS support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.9 | 345kV, GIS Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.10 | 345kV, Cable sealing end | 54 | CY | 703.89 | 804.44 | 502.78 | \$ 37,658 | \$ 43,038 | \$ 26,898 | \$ 107,594 |
| 2.11 | 345kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.12 | 345kV, Disconnect Switch | 95 | CY | 703.89 | 804.44 | 502.78 | \$ 66,897 | \$ 76,454 | \$ 47,784 | \$ 191,135 |
| 2.13 | 345/138KV, Power Transformer with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.14 | 345kV, Shunt Reactor with oil containment-225MVAR | 305 | CY | 703.89 | 804.44 | 502.78 | \$ 214,685 | \$ 245,354 | \$ 153,346 | \$ 613,386 |
| 2.15 | 345kV, Shunt Reactor with oil containment-50MVAR | 378 | CY | 703.89 | 804.44 | 502.78 | \$ 266,069 | \$ 304,078 | \$ 190,049 | \$ 760,196 |
| 2.16 | 345kV, Shunt Reactor with oil containment-25MVAR | 200 | CY | 703.89 | 804.44 | 502.78 | \$ 140,777 | \$ 160,888 | \$ 100,555 | \$ 402,220 |
| 2.17 | 345kV, Phase Angle Regulator with oil containment | 890 | CY | 703.89 | 804.44 | 502.78 | \$ 626,458 | \$ 715,952 | \$ 447,470 | \$ 1,789,879 |
| 2.18 | 345kV, Circuit Breaker (PASS) | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | 345kV, Circuit Breaker (GIS), outdoor rated | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.20 | 345Kv, GIS Enclosure-BLDG with generator pad | 1,867 | CY | 703.89 | 804.44 | 502.78 | \$ 1,314,153 | \$ 1,501,889 | \$ 938,681 | \$ 3,754,724 |
| 2.21 | 345kV, Surge arrester | 80 | CY | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 2.22 | 138kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.23 | 138kV, Circuit Breaker, Hybrid circuit breaker | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.24 | 138kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.25 | 138kV, Bus support-1 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.26 | 138kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.27 | 138kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.28 | 138kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.29 | 138kV, A Frame 50' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.30 | Firewall Foundation | 1,885 | CY | 703.89 | 804.44 | 502.78 | \$ 1,326,795 | \$ 1,516,337 | \$ 947,711 | \$ 3,790,843 |
| 2.31 | Precast Firewall for transformer, PARs, reactors | 28,530 | SF | 25.00 | 15.00 | 10.00 | \$ 713,250 | \$ 427,950 | \$ 285,300 | \$ 1,426,500 |
| 2.32 | Precast Concrete Piles-12"X80' | - | EA | 18,000.00 | 3,200.00 | 2,800.00 | \$ - | \$ - | \$ - | \$ - |
| 2.33 | Local Control Cabinet foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.34 | 138kV, GIS Enclosure-BLDG & control room | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| TOTAL - 345KV FOUNDATION | | | | | | | \$ 4,940,586 | \$ 5,259,191 | \$ 3,304,826 | \$ 13,504,603 |
| 3. SUBSTATION STRUCTURES | | | | | | | | | | |
| 3.1 | 345kV, Lightning mast | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.2 | 345kV, A Frame 70' | 0 | EA | 48,100.00 | 28,860.00 | 19,240.00 | \$ - | \$ - | \$ - | \$ - |
| 3.3 | 345kV, Bus support-3 Ph | 3 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ 25,038 | \$ 17,276 | \$ 11,517 | \$ 53,832 |
| 3.4 | 345kV, Bus support-3 Ph, low | 15 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ 125,190 | \$ 86,381 | \$ 57,587 | \$ 269,159 |
| 3.5 | 345kV, Bus support-1 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | 345kV, GIS air terminal | 18 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ 150,228 | \$ 103,657 | \$ 69,105 | \$ 322,990 |
| 3.7 | 345kV, GIS support-1 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | 345kV, GIS support-3 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | 345kV, GIS Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | 345kV, Cable sealing end | 5 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ 41,730 | \$ 28,794 | \$ 19,196 | \$ 89,720 |
| 3.11 | 345kV, CCVT | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.12 | 345kV, Disconnect Switch | 3 | EA | 19,240.00 | 11,544.00 | 7,696.00 | \$ 57,720 | \$ 34,632 | \$ 23,088 | \$ 115,440 |
| 3.13 | 138kV, Bus support-3 Ph, low | 0 | EA | 4,173.00 | 2,879.76 | 1,919.84 | \$ - | \$ - | \$ - | \$ - |
| 3.14 | 138kV, Bus support-1 Ph, low | 0 | EA | 2,782.00 | 1,919.84 | 1,279.89 | \$ - | \$ - | \$ - | \$ - |
| 3.15 | 138kV, Disconnect Switch | 0 | EA | 4,896.84 | 4,896.84 | 2,448.42 | \$ - | \$ - | \$ - | \$ - |
| 3.16 | 138kV, Cable sealing end | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.17 | 138kV, CCVT | 0 | EA | 3,206.67 | 1,924.00 | 1,282.67 | \$ - | \$ - | \$ - | \$ - |
| 3.18 | 138kV, A Frame 50' | 0 | EA | 33,000.00 | 19,800.00 | 13,200.00 | \$ - | \$ - | \$ - | \$ - |
| 3.19 | AL. Bus Tubing, 5" SCH 80 | 1,050 | LF | 25.00 | 184.94 | 123.29 | \$ 26,250 | \$ 194,185 | \$ 129,457 | \$ 349,892 |
| 3.20 | AL. Bus fittings | 1 | LS | 31,500.00 | 31,500.00 | 15,750.00 | \$ 31,500 | \$ 31,500 | \$ 15,750 | \$ 78,750 |
| 3.21 | Steel grating and support beams-transformer moat | 346,240 | LB | 2.73 | 1.17 | 0.50 | \$ 945,864 | \$ 404,755 | \$ 173,466 | \$ 1,524,085 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SUBSTATION STRUCTURES & GAS-INSULATED CONDUCTOR | | | | | | | \$ 1,403,520 | \$ 901,180 | \$ 499,166 | \$ 2,803,867 |
| 4. MAJOR EQUIPMENT | | | | | | | | | | |
| 4.1 | 345kV, GIS air terminal | 18.00 | EA | | | | | | | |
| 4.2 | 345kV, GIS Cable sealing end | 0 | EA | | | | | \$ - | \$ - | \$ - |
| 4.3 | 345kV, Cable sealing end | 15 | EA | 17,400.00 | 5,460.00 | 2,340.00 | \$ 261,000 | \$ 81,900 | \$ 35,100 | \$ 378,000 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|-------------------------------------|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------|
| 4.4 | 345kV, CCVT | 0 | EA | | 15,941.99 | 6,832.28 | \$ - | \$ - | \$ - | \$ - |
| 4.5 | 345kV, Disconnect Switch | 3 | EA | 57,720.00 | 34,632.00 | 23,088.00 | \$ 173,160 | \$ 103,896 | \$ 69,264 | \$ 346,320 |
| 4.6 | 345/138KV, Power Transformer with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.7 | Transport & Testing- Transformer | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.8 | 345kV, Shunt Reactor with oil containment-225MVAR | 1 | EA | 3,026,425.00 | 3,520.00 | 880.00 | \$ 3,026,425 | \$ 3,520 | \$ 880 | \$ 3,030,825 |
| 4.9 | 345kV, Shunt Reactor with oil containment-50MVAR | 3 | EA | 2,138,451.50 | 3,520.00 | 880.00 | \$ 6,415,355 | \$ 10,560 | \$ 2,640 | \$ 6,428,555 |
| 4.10 | 345kV, Shunt Reactor with oil containment-25MVAR | 2 | EA | 1,900,130.50 | 3,520.00 | 880.00 | \$ 3,800,261 | \$ 7,040 | \$ 1,760 | \$ 3,809,061 |
| 4.11 | Transport & Testing- Shunt Reactor | 6 | EA | | 272,900.20 | 178,266.80 | \$ - | \$ 1,637,401 | \$ 1,069,601 | \$ 2,707,002 |
| 4.12 | 345kV, Phase Angle Regulator with oil containment | 2 | EA | 25,764,000.00 | 3,520.00 | 880.00 | \$ 51,528,000 | \$ 7,040 | \$ 1,760 | \$ 51,536,800 |
| 4.11 | Transport & Testing- PARs | 2 | EA | | 1,215,400.00 | 806,600.00 | \$ - | \$ 2,430,800 | \$ 1,613,200 | \$ 4,044,000 |
| 4.13 | 345kV, Gas Insulated Switchgear, BAAH Arrangement | 21 | BKR | 838,571.43 | 503,142.86 | 335,428.57 | \$ 17,610,000 | \$ 10,566,000 | \$ 7,044,000 | \$ 35,220,000 |
| 4.14 | 345kV, Circuit Breaker (PASS) | 0 | EA | | 57,239.00 | 24,531.00 | \$ - | \$ - | \$ - | \$ - |
| 4.15 | 345kV, Circuit Breaker (GIS), outdoor rated | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.16 | 345kV, Circuit Breaker (GIS), outdoor rated-Line surge Arrester (3phase) | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.17 | 345kV, surge Arrester | 15 | EA | 6,669.00 | 5,460.00 | 2,340.00 | \$ 100,035 | \$ 81,900 | \$ 35,100 | \$ 217,035 |
| 4.18 | 138kV, Phase Angle Regulator with oil containment | 0 | EA | 10,366,370.00 | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Transport & Testing- Phase Angle Regulating Transformer, 138kV | 0 | EA | | 336,400.00 | 220,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.20 | 138kV, Gas Insulated Switchgear, BAAH Arrangement | 0 | BKR | | 205,800.00 | 4,200.00 | \$ - | \$ - | \$ - | \$ - |
| 4.21 | 138kV, Circuit Breaker, Hybrid circuit breaker | 0 | EA | | 13,559.00 | 5,811.00 | \$ - | \$ - | \$ - | \$ - |
| 4.22 | 138kV, Disconnect Switch | 0 | EA | 37,700.00 | 11,875.50 | 5,089.50 | \$ - | \$ - | \$ - | \$ - |
| 4.23 | 138kV, Cable sealing end | 0 | EA | 11,600.00 | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.24 | 138kV, CCVT | 0 | EA | | 7,970.08 | 3,415.75 | \$ - | \$ - | \$ - | \$ - |
| 4.25 | 138kV, Surge arrester | | EA | 4,446.00 | 4,200.00 | 1,800.00 | \$ - | \$ - | \$ - | \$ - |
| 4.26 | Station service transformers- 120/208v-250VA | 2 | EA | 260,000.00 | 45,500.00 | 19,500.00 | \$ 520,000 | \$ 91,000 | \$ 39,000 | \$ 650,000 |
| 4.27 | 345kV Gas-Insulated Bus Conductor | 0 | LF | 550.00 | 275.00 | 82.50 | \$ - | \$ - | \$ - | \$ - |
| 4.28 | 345kV Gas-Insulated Bus Conductor-elbow | 0 | EA | 2,500.00 | 1,250.00 | 375.00 | \$ - | \$ - | \$ - | \$ - |
| 4.29 | Transport & Testing- GIL | 0 | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| TOTAL - MAJOR EQUIPMENT | | | | | | | \$ 83,434,236 | \$ 15,021,057 | \$ 9,912,305 | \$ 108,367,598 |
| 5. LOW VOLTAGE & CONTROL CABLE | | | | | | | | | | |
| 5.1 | Control Cables | 16,800 | LF | 5.30 | 1.43 | 0.29 | \$ 88,998 | \$ 24,066 | \$ 4,813 | \$ 117,877 |
| 5.2 | | | LF | | - | - | \$ - | \$ - | \$ - | \$ - |
| TOTAL - LOW VOLTAGE & CONTROL CABLE | | | | | | | \$ 88,998 | \$ 24,066 | \$ 4,813 | \$ 117,877 |
| 6. CONDUIT & CABLE TRENCH | | | | | | | | | | |
| 6.1 | Conduit, PVC, 6", SCH 40 | | LF | 20.70 | 13.28 | 6.64 | \$ - | \$ - | \$ - | \$ - |
| 6.2 | Conduit, PVC, 4", SCH 40 | 3,450 | LF | 11.15 | 10.80 | 5.40 | \$ 38,468 | \$ 37,260 | \$ 18,630 | \$ 94,358 |
| 6.3 | Conduit, PVC, 3", SCH 40 | | LF | 8.10 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.4 | Conduit, PVC, 2", SCH 40 | | LF | 3.95 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.5 | Conduit, PVC, 1", SCH 40 | | LF | 1.90 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.6 | Cable Trench | 1,063 | LF | 266.50 | 53.04 | 13.26 | \$ 283,156 | \$ 56,355 | \$ 14,089 | \$ 353,600 |
| 6.7 | | | | | | | | | | |
| 6.8 | 138kV UG- Conduit | | LF | 266.73 | 202.15 | 100.00 | \$ - | \$ - | \$ - | \$ - |
| 6.9 | 138kV UG- Cable | 0 | LF | 145.00 | 87.00 | 58.00 | \$ - | \$ - | \$ - | \$ - |
| 6.10 | 138kV UG- Termination | 0 | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ - | \$ - | \$ - | \$ - |
| 6.11 | 345kV UG- Conduit | 8,016 | LF | 266.73 | 202.15 | 100.00 | \$ 2,138,035 | \$ 1,620,346 | \$ 801,609 | \$ 4,559,990 |
| 6.12 | 345kV UG- Cable | 24,047 | LF | 167.00 | 100.20 | 66.80 | \$ 4,015,866 | \$ 2,409,519 | \$ 1,606,346 | \$ 8,031,731 |
| 6.13 | 345kV UG- Termination | 75 | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ 2,085,375 | \$ 738,486 | \$ 210,996 | \$ 3,034,857 |
| 6.14 | Fiber Optic Cable | 8,016 | LF | 7.40 | 3.33 | 2.22 | \$ 59,292 | \$ 26,697 | \$ 17,798 | \$ 103,787 |
| 6.15 | Ground Continuity Conductor | 8,016 | LF | 13.04 | 7.53 | 5.02 | \$ 104,517 | \$ 60,334 | \$ 40,223 | \$ 205,074 |
| 6.16 | | | | | | | | | | |
| 6.17 | | | | | | | \$ - | \$ - | \$ - | \$ - |
| TOTAL - CONDUIT & CABLE TRENCH | | | | | | | \$ 8,724,708 | \$ 4,948,997 | \$ 2,709,691 | \$ 16,383,397 |
| 7. GROUND GRID | | | | | | | | | | |
| 7.1 | Cable, 4/0 AWG Bare Copper, 7 Strand Ground Conductor | 15,355 | LF | 2.09 | 3.42 | 1.46 | \$ 32,107 | \$ 52,442 | \$ 22,475 | \$ 107,024 |
| 7.2 | Caweld, DSA, 4/0 , T, CROSS | 414 | EA | 165.00 | 75.00 | | \$ 68,310 | \$ 31,050 | \$ - | \$ 99,360 |
| 7.3 | Ground Rod, 3/4" x 15' | 374 | EA | 135.00 | 67.50 | 7.50 | \$ 50,490 | \$ 25,245 | \$ 2,805 | \$ 78,540 |
| TOTAL - GROUND GRID | | | | | | | \$ 150,907 | \$ 108,737 | \$ 25,280 | \$ 284,924 |
| 8. CONTROL ENCLOSURE | | | | | | | | | | |
| 8.1 | 345kv GIS Bldg | 1 | EA | 3,817,603.08 | 2,672,322.16 | 1,145,280.92 | \$ 3,817,603 | \$ 2,672,322 | \$ 1,145,281 | \$ 7,635,206 |
| 8.2 | 138kv GIS/Control Bldg | 0 | EA | 1,145,280.92 | 801,696.65 | 343,584.28 | \$ - | \$ - | \$ - | \$ - |
| 8.3 | Primary Line Relays (87L): SEL-411L | 10 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 213,281 | \$ 170,625 | \$ 42,656 | \$ 426,562 |
| 8.4 | Backup Line Relays (87L): GE L90 | 10 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 213,281 | \$ 170,625 | \$ 42,656 | \$ 426,562 |
| 8.5 | Primary Bay Control: SEL-451 | 7 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 149,297 | \$ 119,437 | \$ 29,859 | \$ 298,594 |
| 8.6 | Backup Bay Control: SEL-451 | 7 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 149,297 | \$ 119,437 | \$ 29,859 | \$ 298,594 |
| 8.7 | Primary Transformer/Reactor/PAR Differential Relays: SEL-487E | 9 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 191,953 | \$ 153,562 | \$ 38,391 | \$ 383,906 |
| 8.8 | Backup Transformer/Reactor/PAR Differential Relays: GE T60 | 9 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 191,953 | \$ 153,562 | \$ 38,391 | \$ 383,906 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------|
| 8.9 | Primary Bus Differential Relays: SEL-487B | 6 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 127,969 | \$ 102,375 | \$ 25,594 | \$ 255,937 |
| 8.10 | Backup Bus Differential Relays: GE B90 | 6 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 127,969 | \$ 102,375 | \$ 25,594 | \$ 255,937 |
| 8.11 | RTU Panel A: SEL-2240 Axion, SEL-2730M ENET SW., SEL-2407 GPS, Modem, SEL-2523 Ann | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.12 | RTU Panel B: SEL-2730M Ethernet Switch, SEL-2407 GPS Clock, SEL-2523 Annunciator | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.13 | HMI Panel | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.14 | Primary Line Relays (87L): SEL-411L | 4 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 85,312 | \$ 68,250 | \$ 17,062 | \$ 170,625 |
| 8.15 | Backup Line Relays (87L): GE L90 | 4 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 85,312 | \$ 68,250 | \$ 17,062 | \$ 170,625 |
| 8.16 | Primary Line Relays (87L): SEL-411L | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.17 | Backup Line Relays (87L): GE L90 | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.18 | Primary Transformer/Reactor/PAR Differential Relays: SEL-487E | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.19 | Backup Transformer/Reactor/PAR Differential Relays: GE T60 | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.20 | Primary Bus Differential Relays: SEL-487B | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.21 | Backup Bus Differential Relays: GE B90 | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.22 | 125VDC Battery System | 2 | LS | 25,000.00 | 22,750.00 | 9,750.00 | \$ 50,000 | \$ 45,500 | \$ 19,500 | \$ 115,000 |
| 8.23 | Control house AC Panel | 2 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ 130,000 | \$ 182,000 | \$ 78,000 | \$ 390,000 |
| 8.24 | Control House DC Panel | 2 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ 130,000 | \$ 182,000 | \$ 78,000 | \$ 390,000 |
| 8.25 | Generator | 1 | EA | 130,000.00 | 72,000.00 | 31,200.00 | \$ 130,000 | \$ 72,800 | \$ 31,200 | \$ 234,000 |
| TOTAL - CONTROL ENCLOSURE | | | | | | | \$ 5,830,727 | \$ 4,413,122 | \$ 1,666,606 | \$ 11,910,455 |
| 2.Station 31 East Garden City 345/138 kV Substation Upgrades | | | | | | | \$ 106,094,372 | \$ 32,667,646 | \$ 19,361,244 | \$ 158,123,262 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 9.1 | Mob / Demob | 1.0 | LS | | 1,821,011.14 | 780,433.35 | \$ - | \$ 1,821,011 | \$ 780,433 | \$ 2,601,444 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 9.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 1,229,032.62 | | \$ - | \$ 1,229,033 | \$ - | \$ 1,229,033 |
| 9.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1 | LS | | 4,916,130.46 | | \$ - | \$ 4,916,130 | \$ - | \$ 4,916,130 |
| 9.4 | Utility PM and Project Oversight | 1 | LS | | 1,229,032.62 | | \$ - | \$ 1,229,033 | \$ - | \$ 1,229,033 |
| 9.5 | Site Accommodation, Facilities, Storage | 1 | LS | 1,229,032.62 | | | \$ 1,229,033 | \$ - | \$ - | \$ 1,229,033 |
| | Engineering | | | | | | | | | |
| 9.6 | Design Engineering | 1.00 | LS | | 9,832,260.93 | | \$ - | \$ 9,832,261 | \$ - | \$ 9,832,261 |
| 9.7 | LiDAR /GPR | - | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 9.8 | Geotech | 5.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 13,650 | \$ 9,100 | \$ 22,750 |
| 9.9 | Surveying/Staking | 1.00 | Site | | 860,322.83 | | \$ - | \$ 860,323 | \$ - | \$ 860,323 |
| | Testing & Commissioning | | | | | | | | | |
| 9.10 | Testing & Commissioning of SS and Equipment | 1.00 | LS | | 4,608,872.31 | | \$ - | \$ 4,608,872 | \$ - | \$ 4,608,872 |
| | Permitting and Additional Costs | | | | | | | | | |
| 9.11 | Physical Security | 1.00 | LS | | 6,546.96 | | \$ - | \$ 6,547 | \$ - | \$ 6,547 |
| 9.12 | Environmental Licensing & Permitting Costs & related legal cost | 1.00 | LS | | 1,229,032.62 | | \$ - | \$ 1,229,033 | \$ - | \$ 1,229,033 |
| 9.13 | Environmental-special studies/investigation | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.14 | Warranties / LOC's | 1.00 | LS | | 368,709.78 | | \$ - | \$ 368,710 | \$ - | \$ 368,710 |
| 9.15 | Laydown Lease | - | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 9.16 | Real Estate (Acquisition) | 1.00 | LS | | - | 31,050,000.00 | \$ - | \$ - | \$ 31,050,000 | \$ 31,050,000 |
| 9.17 | Legal Fees (Real estate) | 1.00 | LS | | - | 931,500.00 | \$ - | \$ - | \$ 931,500 | \$ 931,500 |
| 9.18 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 9.19 | Bonds | 1 | LS | | - | \$ 6,520,000 | \$ - | \$ - | \$ 6,520,000 | \$ 6,520,000 |
| 9.20 | Sales Tax on Materials | 8.80% | LS | 106,094,371.82 | | | \$ 9,336,305 | \$ - | \$ - | \$ 9,336,305 |
| 9.21 | Fees for permits, including roadway, railroad, building or other local permits | 1.00 | LS | | 158,123.26 | | \$ - | \$ 158,123 | \$ - | \$ 158,123 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 10,565,337 | \$ 26,272,726 | \$ 39,291,033 | \$ 76,129,096 |

NEXTera Energy- TO41 Core 6

3.Station 48 Valley Stream 345/138 kV Substation Upgrades

Total: \$ 143,522,216

| NEXTera Energy- TO41 Core 6 | | | | |
|--|-----------------|---------------|---------------|----------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| 3.Station 48 Valley Stream 345/138 kV Substation Upgrades | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | \$ 903,828 | \$ 1,042,806 | \$ 681,014 | \$ 2,627,648 |
| 2. SUBSTATION FOUNDATIONS | \$ 2,969,736 | \$ 3,393,984 | \$ 2,121,289 | \$ 8,485,009 |
| 3. SUBSTATION STRUCTURES | \$ 1,692,012 | \$ 862,489 | \$ 392,825 | \$ 2,947,326 |
| 4. MAJOR EQUIPTMENT | \$ 33,770,383 | \$ 9,893,022 | \$ 6,376,108 | \$ 50,039,513 |
| 5. LOW VOLTAGE & CONTROL CABLE | \$ 98,534 | \$ 26,645 | \$ 5,329 | \$ 130,507 |
| 6. CONDUIT & CABLE TRENCH | \$ 3,169,320 | \$ 1,626,898 | \$ 829,928 | \$ 5,626,146 |
| 7. GROUND GRID | \$ 100,333 | \$ 72,239 | \$ 16,752 | \$ 189,324 |
| 8. CONTROL ENCLOSURE | \$ 4,172,141 | \$ 3,175,330 | \$ 1,245,811 | \$ 8,593,282 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 4,708,201 | \$ 13,997,126 | \$ 6,080,873 | \$ 24,786,200 |
| Turnkey cost (HVDC, GIS) | \$ 10,165,000 | \$ 6,099,000 | \$ 4,066,000 | \$ 20,330,000 |
| Non-Turnkey cost | \$ 41,419,488 | \$ 27,991,539 | \$ 13,683,929 | \$ 83,094,955 |
| SUBTOTAL (Costs): | \$ 51,584,488 | \$ 34,090,539 | \$ 17,749,929 | \$ 103,424,955 |
| CONTRACTOR MARK-UP (OH&P) | \$ 8,065,408 | \$ 5,404,417 | \$ 2,707,067 | \$ 16,176,892 |
| SUBTOTAL: | \$ 59,649,895 | \$ 39,494,955 | \$ 20,456,996 | \$ 119,601,847 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 11,929,979 | \$ 7,898,991 | \$ 4,091,399 | \$ 23,920,369 |
| TOTAL: | \$ 71,579,875 | \$ 47,393,947 | \$ 24,548,395 | \$ 143,522,216 |

| Description of Work: New East Garden City 345 kV/138 kV GIS Substation, and modification at exisitng 138kv EGC station | | | | | | | | | | |
|--|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|--------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
| 3.Station 48 Valley Stream 345/138 kV Substation Upgrades | | | | | | | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | | | | |
| 1.1 | Site Clearing | 0.0 | ACRE | - | 10,800.00 | 7,200.00 | \$ - | \$ - | \$ - | \$ - |
| 1.2 | Demolition | 1 | LS | - | 620,000.00 | 415,000.00 | \$ - | \$ 620,000 | \$ 415,000 | \$ 1,035,000 |
| 1.3 | New Access Road - 20' | 889 | SY | 4.85 | 7.20 | 4.80 | \$ 4,312 | \$ 6,401 | \$ 4,267 | \$ 14,980 |
| 1.4 | Strip and Dispose Top Soil | 0 | CY | | 24.50 | 10.50 | \$ - | \$ - | \$ - | \$ - |
| 1.5 | Site Grading- Excavation for Substation Pad | 11,761 | CY | | 9.00 | 6.00 | \$ - | \$ 105,849 | \$ 70,566 | \$ 176,415 |
| 1.6 | Site Grading- Excavation for Substation Pad-Rock excavation-Hauling and disposal | | CY | | 21.00 | 9.00 | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Site Grading- Fill for Substation Pad (site borrow, compacted in place) | 7,057 | CY | | 2.40 | 1.60 | \$ - | \$ 16,937 | \$ 11,291 | \$ 28,228 |
| 1.8 | Site Grading -Fill for Substation Pad (import, compacted in place) | 4,704 | CY | 25.00 | 2.40 | 1.60 | \$ 117,600 | \$ 11,290 | \$ 7,526 | \$ 136,416 |
| 1.9 | Blasting | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 1.10 | Install substation 8" pad base | 8,712 | SY | 11.00 | 6.00 | 4.00 | \$ 95,832 | \$ 52,272 | \$ 34,848 | \$ 182,952 |
| 1.11 | Site Surfacing - Aggregate 6" Thick | 8,712 | SY | 16.50 | 4.50 | 3.00 | \$ 143,748 | \$ 39,204 | \$ 26,136 | \$ 209,088 |
| 1.12 | 7' Station Fence w/ Barbed Wire & Grounding | 2,222 | LF | 13.85 | 13.85 | 6.92 | \$ 30,770 | \$ 30,770 | \$ 15,385 | \$ 76,926 |
| 1.13 | 20' Slide Gate & Grounding | 3 | EA | 8,100.00 | 3,245.00 | 1,305.00 | \$ 24,300 | \$ 9,735 | \$ 3,915 | \$ 37,950 |
| 1.14 | 4' Pedestrian gate | 3 | EA | 2,500.00 | 1,000.00 | 350.00 | \$ 7,500 | \$ 3,000 | \$ 1,050 | \$ 11,550 |
| 1.15 | Storm drain-15" HDPE, INFILTRATION TRENCH, INLET and Hydrodynamic Separator | 1 | LS | 446,976.00 | 115,200.00 | 76,104.00 | \$ 446,976 | \$ 115,200 | \$ 76,104 | \$ 638,280 |
| 1.16 | Seeding | 0 | SF | 1.50 | 1.50 | 1.00 | \$ - | \$ - | \$ - | \$ - |
| 1.17 | Erosion Control-Silt fence install & remove | 2,583 | LF | 2.41 | 3.16 | 0.72 | \$ 6,225 | \$ 8,162 | \$ 1,860 | \$ 16,247 |
| 1.18 | Temporary fencing | 2,190 | LF | 7.50 | 5.25 | 2.25 | \$ 16,425 | \$ 11,498 | \$ 4,928 | \$ 32,850 |
| 1.19 | Substation entrance with asphalt | 333 | SY | 19.50 | 26.00 | 19.50 | \$ 6,500 | \$ 8,667 | \$ 6,500 | \$ 21,667 |
| 1.20 | Concrete curb | 140 | LF | 26.00 | 11.70 | \$ 3,640 | \$ | \$ 3,822 | \$ 1,638 | \$ 9,100 |
| 1.21 | Retaining Wall | 0 | LF | 156.00 | 117.00 | 117.00 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|---|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|--------------|
| | | | | | | | | | | |
| TOTAL - SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | \$ 903,828 | \$ 1,042,806 | \$ 681,014 | \$ 2,627,648 |
| 2. SUBSTATION FOUNDATIONS | | | | | | | | | | |
| 2.1 | 345kV, Lightning mast | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | 345kV, A Frame 70' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | 345kV, Bus support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.4 | 345kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.5 | 345kV, Bus support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.6 | 345kV, GIS air terminal | 178 | CY | 703.89 | 804.44 | 502.78 | \$ 125,432 | \$ 143,351 | \$ 89,595 | \$ 358,378 |
| 2.7 | 345kV, GIS support-1 Ph | 146 | CY | 703.89 | 804.44 | 502.78 | \$ 102,880 | \$ 117,577 | \$ 73,486 | \$ 293,942 |
| 2.8 | 345kV, GIS support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.9 | 345kV, GIS Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.10 | 345kV, Cable sealing end | 32 | CY | 703.89 | 804.44 | 502.78 | \$ 22,595 | \$ 25,823 | \$ 16,139 | \$ 64,556 |
| 2.11 | 345kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.12 | 345kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.13 | 345/138KV, Power Transformer with oil containment | 984 | CY | 703.89 | 804.44 | 502.78 | \$ 692,623 | \$ 791,569 | \$ 494,731 | \$ 1,978,922 |
| 2.14 | 345kV, Shunt Reactor with oil containment-150MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.15 | 345kV, Shunt Reactor with oil containment-50 MVAR | 378 | CY | 703.89 | 804.44 | 502.78 | \$ 266,069 | \$ 304,078 | \$ 190,049 | \$ 760,196 |
| 2.16 | 345kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.17 | 345kV, Circuit Breaker (PASS) | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.18 | 345kV, Circuit Breaker (GIS), outdoor rated | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | 345Kv, GIS Enclosure-BLDG with generator pad | 1,481 | CY | 703.89 | 804.44 | 502.78 | \$ 1,042,454 | \$ 1,191,376 | \$ 744,610 | \$ 2,978,439 |
| 2.20 | 345kV, Surge arrester | 48 | CY | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 2.21 | 138kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.22 | 138kV, Circuit Breaker, Hybrid circuit breaker | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.23 | 138kV, Circuit Breaker-relocation only | 4.4 | CY | 703.89 | 804.44 | 502.78 | \$ 3,128 | \$ 3,575 | \$ 2,235 | \$ 8,938 |
| 2.24 | 138kV, Bus support-3 Ph, low | 43 | CY | 703.89 | 804.44 | 502.78 | \$ 30,126 | \$ 34,430 | \$ 21,519 | \$ 86,075 |
| 2.25 | 138kV, Bus support-1 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.26 | 138kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.27 | 138kV, Disconnect Switch- RELOCATION ONLY | 48 | CY | 703.89 | 804.44 | 503.78 | \$ 34,124 | \$ 38,999 | \$ 24,423 | \$ 97,547 |
| 2.28 | 138kV, Cable sealing end | 61 | CY | 703.89 | 804.44 | 502.78 | \$ 42,655 | \$ 48,749 | \$ 30,468 | \$ 121,873 |
| 2.29 | 138kV, Surge arrester | 48 | CY | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 2.30 | 138kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.31 | 138kV, A Frame 50' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.32 | Firewall Foundation | 863 | CY | 703.89 | 804.44 | 502.78 | \$ 607,650 | \$ 694,457 | \$ 434,036 | \$ 1,736,142 |
| 2.33 | Precast Firewall for transformer, PARs, reactors | - | SF | 25.00 | 15.00 | 10.00 | \$ - | \$ - | \$ - | \$ - |
| 2.34 | Precast Concrete Piles-12"X80' | - | EA | 18,000.00 | 3,200.00 | 2,800.00 | \$ - | \$ - | \$ - | \$ - |
| 2.35 | Local Control Cabinet foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.36 | 138kV, GIS Enclosure-BLDG & control room | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| TOTAL - 345KV FOUNDATION | | | | | | | \$ 2,969,736 | \$ 3,393,984 | \$ 2,121,289 | \$ 8,485,009 |
| 3. SUBSTATION STRUCTURES | | | | | | | | | | |
| 3.1 | 345kV, Lightning mast | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.2 | 345kV, A Frame 70' | 0 | EA | 48,100.00 | 28,860.00 | 19,240.00 | \$ - | \$ - | \$ - | \$ - |
| 3.3 | 345kV, Bus support-3 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.4 | 345kV, Bus support-3 Ph, low | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | 345kV, Bus support-1 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | 345kV, GIS air terminal | 27 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ 225,342 | \$ 155,486 | \$ 103,657 | \$ 484,485 |
| 3.7 | 345kV, GIS support-1 Ph | 36 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ 300,456 | \$ 207,315 | \$ 138,210 | \$ 645,980 |
| 3.8 | 345kV, GIS support-3 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | 345kV, GIS Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | 345kV, Cable sealing end | 3 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ 25,038 | \$ 17,276 | \$ 11,517 | \$ 53,832 |
| 3.11 | 345kV, CCVT | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.12 | 345kV, Disconnect Switch | 0 | EA | 19,240.00 | 11,544.00 | 7,696.00 | \$ - | \$ - | \$ - | \$ - |
| 3.13 | 138kV, Bus support-3 Ph, low | 4 | EA | 4,173.00 | 2,879.76 | 1,919.84 | \$ 16,692 | \$ 11,519 | \$ 7,679 | \$ 35,890 |
| 3.14 | 138kV, Bus support-1 Ph, low | 0 | EA | 2,782.00 | 1,919.84 | 1,279.89 | \$ - | \$ - | \$ - | \$ - |
| 3.15 | 138kV, Disconnect Switch | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.16 | 138kV, Cable sealing end | 3 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ 14,430 | \$ 8,658 | \$ 5,772 | \$ 28,860 |
| 3.17 | 138kV, Surge arrester | 9 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ 43,290 | \$ 25,974 | \$ 17,316 | \$ 86,580 |
| 3.18 | 138kV, CCVT | 0 | EA | 3,206.67 | 1,924.00 | 1,282.67 | \$ - | \$ - | \$ - | \$ - |
| 3.19 | 138kV, A Frame 50' | 0 | EA | 33,000.00 | 19,800.00 | 13,200.00 | \$ - | \$ - | \$ - | \$ - |
| 3.20 | AL. Bus Tubing, 5" SCH 80 | 240 | LF | 25.00 | 184.94 | 123.29 | \$ 6,000 | \$ 44,385 | \$ 29,590 | \$ 79,975 |
| 3.21 | AL. Bus fittings | 1 | LS | 30,240.00 | 30,240.00 | 15,120.00 | \$ 30,240 | \$ 30,240 | \$ 15,120 | \$ 75,600 |
| 3.22 | Steel grating and support beams-transformer moat | 259,680 | LB | 2.73 | 1.17 | 0.50 | \$ 709,398 | \$ 303,566 | \$ 130,100 | \$ 1,143,064 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SUBSTATION STRUCTURES & GAS-INSULATED CONDUCTOR | | | | | | | \$ 1,692,012 | \$ 862,489 | \$ 392,825 | \$ 2,947,326 |
| 4. MAJOR EQUIPMENT | | | | | | | | | | |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|-------------------------------------|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 4.1 | 345kV, GIS air terminal | 27 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.2 | 345kV, GIS Cable sealing end | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.3 | 345kV, Cable sealing end | 9 | EA | 17,400.00 | 5,460.00 | 2,340.00 | \$ 156,600 | \$ 49,140 | \$ 21,060 | \$ 226,800 |
| 4.4 | 345kV, CCVT | 0 | EA | | 15,941.99 | 6,832.28 | \$ - | \$ - | \$ - | \$ - |
| 4.5 | 345kV, Disconnect Switch | 0 | EA | 57,720.00 | 34,632.00 | 23,088.00 | \$ - | \$ - | \$ - | \$ - |
| 4.6 | 345/138KV, Power Transformer with oil containment | 3 | EA | 5,220,000.00 | 3,520.00 | 880.00 | \$ 15,660,000 | \$ 10,560 | \$ 2,640 | \$ 15,673,200 |
| 4.7 | Transport & Testing- Transformer | 3 | EA | | 771,400.00 | 510,600.00 | \$ - | \$ 2,314,200 | \$ 1,531,800 | \$ 3,846,000 |
| 4.8 | 345kV, Shunt Reactor with oil containment-150MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.9 | 345kV, Shunt Reactor with oil containment-50 MVAR | 3 | EA | 2,138,451.50 | 3,520.00 | 880.00 | \$ 6,415,355 | \$ 10,560 | \$ 2,640 | \$ 6,428,555 |
| 4.10 | Transport & Testing- Shunt Reactor | 3 | EA | | 240,400.00 | 156,600.00 | \$ - | \$ 721,200 | \$ 469,800 | \$ 1,191,000 |
| 4.11 | 345kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.12 | 345kV, Gas Insulated Switchgear, BAAH Arrangement | 12 | BKR | 847,083.33 | 508,250.00 | 338,833.33 | \$ 10,165,000 | \$ 6,099,000 | \$ 4,066,000 | \$ 20,330,000 |
| 4.13 | 345kV, Circuit Breaker (PASS) | 0 | EA | | 57,239.00 | 24,531.00 | \$ - | \$ - | \$ - | \$ - |
| 4.14 | 345kV, Circuit Breaker (GIS), outdoor rated | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.15 | 345kV, Circuit Breaker (GIS), outdoor rated-Line surge Arrester (3phase) | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.16 | 345kV, surge Arrester | 6 | EA | 6,669.00 | 5,460.00 | 2,340.00 | \$ 40,014 | \$ 32,760 | \$ 14,040 | \$ 86,814 |
| 4.17 | 138kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Transport & Testing- Phase Angle Regulating Transformer, 138kV | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | 138kV, Gas Insulated Switchgear, BAAH Arrangement | 0 | BKR | | | | \$ - | \$ - | \$ - | \$ - |
| 4.20 | 138kV, Circuit Breaker, Hybrid circuit breaker | 0 | EA | | 13,559.00 | 5,811.00 | \$ - | \$ - | \$ - | \$ - |
| 4.21 | 138kV, Circuit Breaker-relocation only | 1 | EA | | 13,559.00 | 5,811.00 | \$ - | \$ 13,559 | \$ 5,811 | \$ 19,370 |
| 4.22 | 138kV, Disconnect Switch-3 Ph | 0 | EA | 37,700.00 | 11,875.50 | 5,089.50 | \$ - | \$ - | \$ - | \$ - |
| 4.23 | 138kV, Disconnect Switch- RELOCATION ONLY | 2 | EA | | 11,875.50 | 5,089.50 | \$ - | \$ 23,751 | \$ 10,179 | \$ 33,930 |
| 4.24 | 138kV, Cable sealing end-3 Ph | 15 | EA | 11,600.00 | 5,460.00 | 2,340.00 | \$ 174,000 | \$ 81,900 | \$ 35,100 | \$ 291,000 |
| 4.25 | 138kV, CCVT | 0 | EA | | 7,970.08 | 3,415.75 | \$ - | \$ - | \$ - | \$ - |
| 4.26 | 138kV, Surge arrester | 9 | EA | 4,446.00 | 4,200.00 | 1,800.00 | \$ 40,014 | \$ 37,800 | \$ 16,200 | \$ 94,014 |
| 4.27 | Station service transformers- 120/208v-250VA | 2 | EA | 260,000.00 | 45,500.00 | 19,500.00 | \$ 520,000 | \$ 91,000 | \$ 39,000 | \$ 650,000 |
| 4.28 | 345kV Gas-Insulated Bus Conductor | 1,008 | LF | 550.00 | 275.00 | 82.50 | \$ 554,400 | \$ 277,200 | \$ 83,160 | \$ 914,760.00 |
| 4.29 | 345kV Gas-Insulated Bus Conductor-elbow | 18 | EA | 2,500.00 | 1,250.00 | 375.00 | \$ 45,000 | \$ 22,500 | \$ 6,750 | \$ 74,250 |
| 4.30 | Transport & Testing- GIL | 1 | LS | | 107,892.00 | 71,928.00 | \$ - | \$ 107,892 | \$ 71,928 | \$ 179,820 |
| TOTAL - MAJOR EQUIPMENT | | | | | | | \$ 33,770,383 | \$ 9,893,022 | \$ 6,376,108 | \$ 50,039,513 |
| 5. LOW VOLTAGE & CONTROL CABLE | | | | | | | | | | |
| 5.1 | Control Cables | 18,600 | LF | 5.30 | 1.43 | 0.29 | \$ 98,534 | \$ 26,645 | \$ 5,329 | \$ 130,507 |
| 5.2 | | | LF | | - | - | \$ - | \$ - | \$ - | \$ - |
| TOTAL - LOW VOLTAGE & CONTROL CABLE | | | | | | | \$ 98,534 | \$ 26,645 | \$ 5,329 | \$ 130,507 |
| 6. CONDUIT & CABLE TRENCH | | | | | | | | | | |
| 6.1 | Conduit, PVC, 6", SCH 40 | | LF | 20.70 | - | - | \$ - | \$ - | \$ - | \$ - |
| 6.2 | Conduit, PVC, 4", SCH 40 | 3,600 | LF | 11.15 | 10.80 | 5.40 | \$ 40,140 | \$ 38,880 | \$ 19,440 | \$ 98,460 |
| 6.3 | Conduit, PVC, 3", SCH 40 | | LF | 8.10 | - | - | \$ - | \$ - | \$ - | \$ - |
| 6.4 | Conduit, PVC, 2", SCH 40 | | LF | 3.95 | - | - | \$ - | \$ - | \$ - | \$ - |
| 6.5 | Conduit, PVC, 1", SCH 40 | | LF | 1.90 | - | - | \$ - | \$ - | \$ - | \$ - |
| 6.6 | Cable Trench | 1,325 | LF | 266.50 | 53.04 | 13.26 | \$ 353,113 | \$ 70,278 | \$ 17,570 | \$ 440,960 |
| 6.7 | | | | | | | | | | |
| 6.8 | 138kV UG- Conduit | 1,919 | LF | 266.73 | 202.15 | 100.00 | \$ 511,963 | \$ 388,000 | \$ 191,949 | \$ 1,091,913 |
| 6.9 | 138kV UG- Cable | 5,758 | LF | 145.00 | 87.00 | 58.00 | \$ 834,939 | \$ 500,963 | \$ 333,976 | \$ 1,669,878 |
| 6.10 | 138kV UG- Termination | 18 | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ 500,490 | \$ 177,237 | \$ 50,639 | \$ 728,366 |
| 6.11 | 345kV UG- Conduit | 494 | LF | 266.73 | 202.15 | 100.00 | \$ 131,632 | \$ 99,759 | \$ 49,352 | \$ 280,743 |
| 6.12 | 345kV UG- Cable | 1,481 | LF | 167.00 | 100.20 | 66.80 | \$ 247,244 | \$ 148,346 | \$ 98,897 | \$ 494,487 |
| 6.13 | 345kV UG- Termination | 18 | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ 500,490 | \$ 177,237 | \$ 50,639 | \$ 728,366 |
| 6.14 | Fiber Optic Cable | 2,413 | LF | 7.40 | 3.33 | 2.22 | \$ 17,848 | \$ 8,036 | \$ 5,358 | \$ 31,242 |
| 6.15 | Ground Continuity Conductor | 2,413 | LF | 13.04 | 7.53 | 5.02 | \$ 31,462 | \$ 18,162 | \$ 12,108 | \$ 61,732 |
| TOTAL - CONDUIT & CABLE TRENCH | | | | | | | \$ 3,169,320 | \$ 1,626,898 | \$ 829,928 | \$ 5,626,146 |
| 7. GROUND GRID | | | | | | | | | | |
| 7.1 | Cable, 4/0 AWG Bare Copper, 7 Strand Ground Conductor | 10,200 | LF | 2.09 | 3.42 | 1.46 | \$ 21,328 | \$ 34,836 | \$ 14,930 | \$ 71,094 |
| 7.2 | Caweld, DSA, 4/0 , T, CROSS | 280 | EA | 165.00 | 75.00 | | \$ 46,200 | \$ 21,000 | \$ - | \$ 67,200 |
| 7.3 | Ground Rod, 3/4" x 15' | 243 | EA | 135.00 | 67.50 | 7.50 | \$ 32,805 | \$ 16,403 | \$ 1,823 | \$ 51,030 |
| TOTAL - GROUND GRID | | | | | | | \$ 100,333 | \$ 72,239 | \$ 16,752 | \$ 189,324 |
| 8. CONTROL ENCLOSURE | | | | | | | | | | |
| 8.1 | 345kv GIS Bldg | 1 | EA | 2,926,829.03 | 2,048,780.32 | 878,048.71 | \$ 2,926,829 | \$ 2,048,780 | \$ 878,049 | \$ 5,853,658 |
| 8.2 | 138kv GIS/Control Bldg | 0 | EA | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 8.3 | Primary Line Relays (87L): SEL-411L | 3 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 63,984 | \$ 51,187 | \$ 12,797 | \$ 127,969 |
| 8.4 | Backup Line Relays (87L): GE L90 | 3 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 63,984 | \$ 51,187 | \$ 12,797 | \$ 127,969 |
| 8.5 | Primary Bay Control: SEL-451 | 4 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 85,312 | \$ 68,250 | \$ 17,062 | \$ 170,625 |
| 8.6 | Backup Bay Control: SEL-451 | 4 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 85,312 | \$ 68,250 | \$ 17,062 | \$ 170,625 |
| 8.7 | Primary Transformer/Reactor/PAR Differential Relays: SEL-487E | 6 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 127,969 | \$ 102,375 | \$ 25,594 | \$ 255,937 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 8.8 | Backup Transformer/Reactor/PAR Differential Relays: GE T60 | 6 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 127,969 | \$ 102,375 | \$ 25,594 | \$ 255,937 |
| 8.9 | Primary Bus Differential Relays: SEL-487B | 4 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 85,312 | \$ 68,250 | \$ 17,062 | \$ 170,625 |
| 8.10 | Backup Bus Differential Relays: GE B90 | 4 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 85,312 | \$ 68,250 | \$ 17,062 | \$ 170,625 |
| 8.11 | RTU Panel A: SEL-2240 Axion, SEL-2730M ENET SW., SEL-2407 GPS, Modem, SEL-2523 Ann | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.12 | RTU Panel B: SEL-2730M Ethernet Switch, SEL-2407 GPS Clock, SEL-2523 Annunciator | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.13 | HMI Panel | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.14 | Primary Line Relays (87L): SEL-411L | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.15 | Backup Line Relays (87L): GE L90 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.16 | 125VDC Battery System | 2 | LS | 25,000.00 | 22,750.00 | 9,750.00 | \$ 50,000 | \$ 45,500 | \$ 19,500 | \$ 115,000 |
| 8.17 | Control house AC Panel | 2 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ 130,000 | \$ 182,000 | \$ 78,000 | \$ 390,000 |
| 8.18 | Control House DC Panel | 2 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ 130,000 | \$ 182,000 | \$ 78,000 | \$ 390,000 |
| 8.19 | Generator | 1 | EA | 130,000.00 | 72,800.00 | 31,200.00 | \$ 130,000 | \$ 72,800 | \$ 31,200 | \$ 234,000 |
| TOTAL - CONTROL ENCLOSURE | | | | | | | \$ 4,172,141 | \$ 3,175,330 | \$ 1,245,811 | \$ 8,593,282 |
| 3.Station 48 Valley Stream 345/138 kV Substation Upgrades | | | | | | | \$ 46,876,287 | \$ 20,093,412 | \$ 11,669,056 | \$ 78,638,755 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 9.1 | Mob / Demob | 1.0 | LS | | 755,911.39 | 323,962.02 | \$ - | \$ 755,911 | \$ 323,962 | \$ 1,079,873 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 9.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 583,087.55 | | \$ - | \$ 583,088 | \$ - | \$ 583,088 |
| 9.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1 | LS | | 2,332,350.20 | | \$ - | \$ 2,332,350 | \$ - | \$ 2,332,350 |
| 9.4 | Utility PM and Project Oversight | 1 | LS | | 583,087.55 | | \$ - | \$ 583,088 | \$ - | \$ 583,088 |
| 9.5 | Site Accommodation, Facilities, Storage | 1 | LS | 583,087.55 | | | \$ 583,088 | \$ - | \$ - | \$ 583,088 |
| | Engineering | | | | | | | | | |
| 9.6 | Design Engineering | 1.00 | LS | | 6,291,100.41 | | \$ - | \$ 6,291,100 | \$ - | \$ 6,291,100 |
| 9.7 | LiDAR /GPR | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.8 | Geotech | 5.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 13,650 | \$ 9,100 | \$ 22,750 |
| 9.9 | Surveying/Staking | 1.00 | Site | | 408,161.29 | | \$ - | \$ 408,161 | \$ - | \$ 408,161 |
| | Testing & Commissioning | | | | | | | | | |
| 9.10 | Testing & Commissioning of SS and Equipment | 1.00 | LS | | 2,186,578.32 | | \$ - | \$ 2,186,578 | \$ - | \$ 2,186,578 |
| | Permitting and Additional Costs | | | | | | | | | |
| 9.11 | Physical Security | 1.00 | LS | | 6,546.96 | | \$ - | \$ 6,547 | \$ - | \$ 6,547 |
| 9.12 | Environmental Licensing & Permitting Costs & related legal cost | 1.00 | LS | | 583,087.55 | | \$ - | \$ 583,088 | \$ - | \$ 583,088 |
| 9.13 | Environmental-special studies/investigation | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.14 | Warranties / LOC's | 1.00 | LS | | 174,926.27 | | \$ - | \$ 174,926 | \$ - | \$ 174,926 |
| 9.15 | Laydown Lease | - | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 9.16 | Real Estate (Acquisition) | 1.00 | LS | | - | 2,803,700.00 | \$ - | \$ - | \$ 2,803,700 | \$ 2,803,700 |
| 9.17 | Legal Fees (Real estate) | 1.00 | LS | | - | 84,111.00 | \$ - | \$ - | \$ 84,111 | \$ 84,111 |
| 9.18 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 9.19 | Bonds | 1 | LS | | - | \$ 2,860,000 | \$ - | \$ - | \$ 2,860,000 | \$ 2,860,000 |
| 9.20 | Sales Tax on Materials | 8.80% | LS | 46,876,286.85 | | | \$ 4,125,113 | \$ - | \$ - | \$ 4,125,113 |
| 9.21 | Fees for permits, including roadway, railroad, building or other local permits | 1.00 | LS | | 78,638.76 | | \$ - | \$ 78,639 | \$ - | \$ 78,639 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 4,708,201 | \$ 13,997,126 | \$ 6,080,873 | \$ 24,786,200 |

4.Barrett 138 kV Substation Upgrades

| NEXtera Energy- TO41 Core 6 | | | | |
|--|-----------------|---------------|---------------|---------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| 4.Barrett 138 kV Substation Upgrades | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | \$ 944,373 | \$ 647,031 | \$ 373,996 | \$ 1,965,400 |
| 2. SUBSTATION FOUNDATIONS | \$ 710,473 | \$ 811,970 | \$ 507,481 | \$ 2,029,924 |
| 3. SUBSTATION STRUCTURES | \$ 309,543 | \$ 377,952 | \$ 233,921 | \$ 921,416 |
| 4. MAJOR EQUIPMENT | \$ 17,187,548 | \$ 4,238,507 | \$ 2,776,589 | \$ 24,202,643 |
| 5. LOW VOLTAGE & CONTROL CABLE | \$ 25,428 | \$ 6,876 | \$ 1,375 | \$ 33,679 |
| 6. CONDUIT & CABLE TRENCH | \$ 3,912,346 | \$ 2,183,727 | \$ 1,172,833 | \$ 7,268,907 |
| 7. GROUND GRID | \$ 75,572 | \$ 54,743 | \$ 12,811 | \$ 143,125 |
| 8. CONTROL ENCLOSURE | \$ 2,347,937 | \$ 1,894,121 | \$ 702,815 | \$ 4,944,874 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 2,545,363 | \$ 6,349,462 | \$ 5,317,732 | \$ 14,212,557 |
| Turnkey cost (HVDC, GIS) | \$ 5,745,000 | \$ 3,447,000 | \$ 2,298,000 | \$ 11,490,000 |
| Non-Turnkey cost | \$ 22,313,583 | \$ 13,117,388 | \$ 8,801,554 | \$ 44,232,524 |
| SUBTOTAL (Costs): | \$ 28,058,583 | \$ 16,564,388 | \$ 11,099,554 | \$ 55,722,524 |
| CONTRACTOR MARK-UP (OH&P) | \$ 4,361,145 | \$ 2,567,950 | \$ 1,722,160 | \$ 8,651,254 |
| SUBTOTAL: | \$ 32,419,728 | \$ 19,132,338 | \$ 12,821,713 | \$ 64,373,779 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 6,483,946 | \$ 3,826,468 | \$ 2,564,343 | \$ 12,874,756 |
| TOTAL: | \$ 38,903,673 | \$ 22,958,805 | \$ 15,386,056 | \$ 77,248,534 |

4.Barrett 138kV Sub

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|---|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|--------------|
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | \$ 944,373 | \$ 647,031 | \$ 373,996 | \$ 1,965,400 |
| 2. SUBSTATION FOUNDATIONS | | | | | | | | | | |
| 2.1 | 345kV, Lightning mast | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | 345kV, A Frame 70' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | 345kV, Bus support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.4 | 345kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.5 | 345kV, Bus support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.6 | 345kV, GIS air terminal | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | 345kV, GIS support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | 345kV, GIS support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.9 | 345kV, GIS Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.10 | 345kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | 345kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.12 | 345kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.13 | 345/138KV, Power Transformer with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.14 | 345kV, Shunt Reactor with oil containment-150MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.15 | 345kV, Shunt Reactor with oil containment-100MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.16 | 345kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.17 | 345kV, Circuit Breaker (PASS) | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.18 | 345kV, Circuit Breaker (GIS), outdoor rated | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | 345Kv, GIS Enclosure-BLDG with generator pad | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.20 | 345kV, Surge arrester | - | CY | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 2.21 | 138kV, Phase Angle Regulator with oil containment | 154 | CY | 703.89 | 804.44 | 502.78 | \$ 108,398 | \$ 123,884 | \$ 77,427 | \$ 309,709 |
| 2.22 | 138kV, Circuit Breaker, Hybrid circuit breaker | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.23 | 138kV, Bus support-3 Ph, low | 128 | CY | 703.89 | 804.44 | 502.78 | \$ 90,379 | \$ 103,290 | \$ 64,556 | \$ 258,225 |
| 2.24 | 138kV, Bus support-1 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.25 | 138kV, Disconnect Switch | 73 | CY | 703.89 | 804.44 | 502.78 | \$ 51,187 | \$ 58,499 | \$ 36,562 | \$ 146,247 |
| 2.26 | 138kV, Cable sealing end | 24 | CY | 703.89 | 804.44 | 502.78 | \$ 17,062 | \$ 19,500 | \$ 12,187 | \$ 48,749 |
| 2.27 | 138kV, Surge arrester | 32 | CY | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 2.28 | 138kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.29 | 138kV, A Frame 50' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.30 | Firewall Foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Precast Firewall for transformer, PARs, reactors | - | SF | 25.00 | 15.00 | 10.00 | \$ - | \$ - | \$ - | \$ - |
| 2.32 | Precast Concrete Piles-12"X80' | - | EA | 18,000.00 | 3,200.00 | 2,800.00 | \$ - | \$ - | \$ - | \$ - |
| 2.33 | Local Control Cabinet foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.34 | 138kV, GIS Enclosure-BLDG & control room | 630 | CY | 703.89 | 804.44 | 502.78 | \$ 443,448 | \$ 506,797 | \$ 316,748 | \$ 1,266,993 |
| | | | | | | | | | | |
| TOTAL - 345KV FOUNDATION | | | | | | | \$ 710,473 | \$ 811,970 | \$ 507,481 | \$ 2,029,924 |
| 3. SUBSTATION STRUCTURES | | | | | | | | | | |
| 3.1 | 345kV, Lightning mast | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.2 | 345kV, A Frame 70' | 0 | EA | 48,100.00 | 28,860.00 | 19,240.00 | \$ - | \$ - | \$ - | \$ - |
| 3.3 | 345kV, Bus support-3 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.4 | 345kV, Bus support-3 Ph, low | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | 345kV, Bus support-1 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | 345kV, GIS air terminal | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | 345kV, GIS support-1 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | 345kV, GIS support-3 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | 345kV, GIS Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | 345kV, Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.11 | 345kV, CCVT | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.12 | 345kV, Disconnect Switch | 0 | EA | 19,240.00 | 11,544.00 | 7,696.00 | \$ - | \$ - | \$ - | \$ - |
| 3.13 | 138kV, Bus support-3 Ph, low | 12 | EA | 4,173.00 | 2,879.76 | 1,919.84 | \$ 50,076 | \$ 34,557 | \$ 23,038 | \$ 107,671 |
| 3.14 | 138kV, Bus support-1 Ph, low | 0 | EA | 2,782.00 | 1,919.84 | 1,279.89 | \$ - | \$ - | \$ - | \$ - |
| 3.15 | 138kV, Disconnect Switch | 3 | EA | 12,251.20 | 3,928.86 | 2,619.24 | \$ 36,754 | \$ 11,787 | \$ 7,858 | \$ 56,398 |
| 3.16 | 138kV, Cable sealing end | 2 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ 9,620 | \$ 5,772 | \$ 3,848 | \$ 19,240 |
| 3.17 | 138kV, Surge arrester | 6 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ 28,860 | \$ 17,316 | \$ 11,544 | \$ 57,720 |
| 3.18 | 138kV, CCVT | 0 | EA | 3,206.67 | 1,924.00 | 1,282.67 | \$ - | \$ - | \$ - | \$ - |
| 3.19 | 138kV, A Frame 50' | 0 | EA | 33,000.00 | 19,800.00 | 13,200.00 | \$ - | \$ - | \$ - | \$ - |
| 3.20 | AL. Bus Tubing, 5" SCH 80 | 1,200 | LF | 25.00 | 184.94 | 123.29 | \$ 30,000 | \$ 221,926 | \$ 147,950 | \$ 399,876 |
| 3.21 | AL. Bus fittings | 1 | LS | 36,000.00 | 36,000.00 | 18,000.00 | \$ 36,000 | \$ 36,000 | \$ 18,000 | \$ 90,000 |
| 3.22 | Steel grating and support beams-transformer moat | 43,280 | LB | 2.73 | 1.17 | 0.50 | \$ 118,233 | \$ 50,594 | \$ 21,683 | \$ 190,511 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SUBSTATION STRUCTURES & GAS-INSULATED CONDUCTOR | | | | | | | \$ 309,543 | \$ 377,952 | \$ 233,921 | \$ 921,416 |
| 4. MAJOR EQUIPMENT | | | | | | | | | | |
| 4.1 | 345kV, GIS air terminal | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|-------------------------------------|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 4.2 | 345kV, GIS Cable sealing end | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.3 | 345kV, Cable sealing end | 0 | EA | | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.4 | 345kV, CCVT | 0 | EA | | 15,941.99 | 6,832.28 | \$ - | \$ - | \$ - | \$ - |
| 4.5 | 345kV, Disconnect Switch | 0 | EA | | 7,234.50 | 3,100.50 | \$ - | \$ - | \$ - | \$ - |
| 4.6 | 345/138KV, Power Transformer with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.7 | Transport & Testing- Transformer | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.8 | 345kV, Shunt Reactor with oil containment-150MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.9 | 345kV, Shunt Reactor with oil containment-100MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.10 | Transport & Testing- Shunt Reactor | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.11 | 345kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.12 | 345kV, Gas Insulated Switchgear, BAAH Arrangement | 0 | BKR | | 205,800.00 | 4,200.00 | \$ - | \$ - | \$ - | \$ - |
| 4.13 | 345kV, Circuit Breaker (PASS) | 0 | EA | | 57,239.00 | 24,531.00 | \$ - | \$ - | \$ - | \$ - |
| 4.14 | 345kV, Circuit Breaker (GIS), outdoor rated | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.15 | 345kV, Circuit Breaker (GIS), outdoor rated-Line surge Arrester (3phase) | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.16 | 345kV, surge Arrester | 0 | EA | | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.17 | 138kV, Phase Angle Regulator with oil containment | 1 | EA | 10,713,172.00 | 3,520.00 | 880.00 | \$ 10,713,172 | \$ 3,520 | \$ 880 | \$ 10,717,572 |
| 4.18 | Transport & Testing- Phase Angle Regulating Transformer, 138kV | 1 | EA | | 603,400.00 | 398,600.00 | \$ - | \$ 603,400 | \$ 398,600 | \$ 1,002,000 |
| 4.19 | 138kV, Gas Insulated Switchgear, BAAH Arrangement | 12 | BKR | 478,750.00 | 287,250.00 | 191,500.00 | \$ 5,745,000 | \$ 3,447,000 | \$ 2,298,000 | \$ 11,490,000 |
| 4.20 | 138kV, Circuit Breaker, Hybrid circuit breaker | 0 | EA | | 13,559.00 | 5,811.00 | \$ - | \$ - | \$ - | \$ - |
| 4.21 | 138kV, Disconnect Switch | 3 | EA | 37,700.00 | 11,875.50 | 5,089.50 | \$ 113,100 | \$ 35,627 | \$ 15,269 | \$ 163,995 |
| 4.22 | 138kV, Cable sealing end | 6 | EA | 11,600.00 | 5,460.00 | 2,340.00 | \$ 69,600 | \$ 32,760 | \$ 14,040 | \$ 116,400 |
| 4.23 | 138kV, CCVT | 0 | EA | | 7,970.08 | 3,415.75 | \$ - | \$ - | \$ - | \$ - |
| 4.24 | 138kV, Surge arrester | 6 | EA | 4,446.00 | 4,200.00 | 1,800.00 | \$ 26,676 | \$ 25,200 | \$ 10,800 | \$ 62,676 |
| 4.25 | Station service transformers- 120/208v-250VA | 2 | EA | 260,000.00 | 45,500.00 | 19,500.00 | \$ 520,000 | \$ 91,000 | \$ 39,000 | \$ 650,000 |
| 4.26 | 345kV Gas-Insulated Bus Conductor | 0 | LF | 550.00 | 275.00 | 82.50 | \$ - | \$ - | \$ - | \$ - |
| 4.27 | 345kV Gas-Insulated Bus Conductor-elbow | 0 | EA | 2,500.00 | 1,250.00 | 375.00 | \$ - | \$ - | \$ - | \$ - |
| 4.28 | Transport & Testing- GIL | 0 | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - MAJOR EQUIPMENT | | | | | | | \$ 17,187,548 | \$ 4,238,507 | \$ 2,776,589 | \$ 24,202,643 |
| 5. LOW VOLTAGE & CONTROL CABLE | | | | | | | | | | |
| 5.1 | Control Cables | 4,800 | LF | 5.30 | 1.43 | 0.29 | \$ 25,428 | \$ 6,876 | \$ 1,375 | \$ 33,679 |
| 5.2 | | | LF | | - | - | \$ - | \$ - | \$ - | \$ - |
| TOTAL - LOW VOLTAGE & CONTROL CABLE | | | | | | | \$ 25,428 | \$ 6,876 | \$ 1,375 | \$ 33,679 |
| 6. CONDUIT & CABLE TRENCH | | | | | | | | | | |
| 6.1 | Conduit, PVC, 6", SCH 40 | | LF | 20.70 | 13.28 | 6.64 | \$ - | \$ - | \$ - | \$ - |
| 6.2 | Conduit, PVC, 4", SCH 40 | 1,050 | LF | 11.15 | 10.80 | 5.40 | \$ 11,708 | \$ 11,340 | \$ 5,670 | \$ 28,718 |
| 6.3 | Conduit, PVC, 3", SCH 40 | | LF | 8.10 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.4 | Conduit, PVC, 2", SCH 40 | | LF | 3.95 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.5 | Conduit, PVC, 1", SCH 40 | | LF | 1.90 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.6 | Cable Trench | 700 | LF | 266.50 | 53.04 | 13.26 | \$ 186,550 | \$ 37,128 | \$ 9,282 | \$ 232,960 |
| 6.7 | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 6.8 | 138kV UG- Conduit | 3,757 | LF | 266.73 | 202.15 | 100.00 | \$ 1,002,081 | \$ 759,444 | \$ 375,708 | \$ 2,137,234 |
| 6.9 | 138kV UG- Cable | 11,271 | LF | 145.00 | 87.00 | 58.00 | \$ 1,634,252 | \$ 980,551 | \$ 653,701 | \$ 3,268,503 |
| 6.10 | 138kV UG- Termination | 36 | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ 1,000,980 | \$ 354,473 | \$ 101,278 | \$ 1,456,731 |
| 6.11 | 345kV UG- Conduit | | LF | 266.73 | 202.15 | 100.00 | \$ - | \$ - | \$ - | \$ - |
| 6.12 | 345kV UG- Cable | | LF | 167.00 | 100.20 | 66.80 | \$ - | \$ - | \$ - | \$ - |
| 6.13 | 345kV UG- Termination | | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ - | \$ - | \$ - | \$ - |
| 6.14 | Fiber Optic Cable | 3,757 | LF | 7.40 | 3.33 | 2.22 | \$ 27,790 | \$ 12,513 | \$ 8,342 | \$ 48,644 |
| 6.15 | Ground Continuity Conductor | 3,757 | LF | 13.04 | 7.53 | 5.02 | \$ 48,986 | \$ 28,278 | \$ 18,852 | \$ 96,117 |
| TOTAL - CONDUIT & CABLE TRENCH | | | | | | | \$ 3,912,346 | \$ 2,183,727 | \$ 1,172,833 | \$ 7,268,907 |
| 7. GROUND GRID | | | | | | | | | | |
| 7.1 | Cable, 4/0 AWG Bare Copper, 7 Strand Ground Conductor | 7,820 | LF | 2.09 | 3.42 | 1.46 | \$ 16,352 | \$ 26,708 | \$ 11,446 | \$ 54,505 |
| 7.2 | Caweld, DSA, 4/0 , T, CROSS | 210 | EA | 165.00 | 75.00 | | \$ 34,650 | \$ 15,750 | \$ - | \$ 50,400 |
| 7.3 | Ground Rod, 3/4" x 15' | 182 | EA | 135.00 | 67.50 | 7.50 | \$ 24,570 | \$ 12,285 | \$ 1,365 | \$ 38,220 |
| TOTAL - GROUND GRID | | | | | | | \$ 75,572 | \$ 54,743 | \$ 12,811 | \$ 143,125 |
| 8. CONTROL ENCLOSURE | | | | | | | | | | |
| 8.1 | 345kv GIS Bldg | 0 | EA | 2,926,829.03 | 2,048,780.32 | 878,048.71 | \$ - | \$ - | \$ - | \$ - |
| 8.2 | 138kv GIS/Control Bldg | 1 | EA | 1,145,696.65 | 801,696.65 | 343,584.28 | \$ 1,145,281 | \$ 801,697 | \$ 343,584 | \$ 2,290,562 |
| 8.3 | Primary Line Relays (87L): SEL-411L | 5 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 106,641 | \$ 85,312 | \$ 21,328 | \$ 213,281 |
| 8.4 | Backup Line Relays (87L): GE L90 | 5 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 106,641 | \$ 85,312 | \$ 21,328 | \$ 213,281 |
| 8.5 | Primary Bay Control: SEL-451 | 4 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 85,312 | \$ 68,250 | \$ 17,062 | \$ 170,625 |
| 8.6 | Backup Bay Control: SEL-451 | 4 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 85,312 | \$ 68,250 | \$ 17,062 | \$ 170,625 |
| 8.7 | Primary Transformer/Reactor/PAR Differential Relays: SEL-487E | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.8 | Backup Transformer/Reactor/PAR Differential Relays: GE T60 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.9 | Primary Bus Differential Relays: SEL-487B | 5 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 106,641 | \$ 85,312 | \$ 21,328 | \$ 213,281 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 8.10 | Backup Bus Differential Relays: GE B90 | 5 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 106,641 | \$ 85,312 | \$ 21,328 | \$ 213,281 |
| 8.11 | RTU Panel A: SEL-2240 Axion, SEL-2730M ENET SW., SEL-2407 GPS, Modem, SEL-2523 Ann | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.12 | RTU Panel B: SEL-2730M Ethernet Switch, SEL-2407 GPS Clock, SEL-2523 Annnunciator | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.13 | HMI Panel | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.14 | Primary Line Relays (87L): SEL-411L | 2 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |
| 8.15 | Backup Line Relays (87L): GE L90 | 2 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |
| 8.16 | 125VDC Battery System | 2 | LS | 25,000.00 | 22,750.00 | 9,750.00 | \$ 50,000 | \$ 45,500 | \$ 19,500 | \$ 115,000 |
| 8.17 | Control house AC Panel | 2 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ 130,000 | \$ 182,000 | \$ 78,000 | \$ 390,000 |
| 8.18 | Control House DC Panel | 2 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ 130,000 | \$ 182,000 | \$ 78,000 | \$ 390,000 |
| 8.19 | Generator | 1 | EA | 130,000.00 | 72,800.00 | 31,200.00 | \$ 130,000 | \$ 72,800 | \$ 31,200 | \$ 234,000 |
| TOTAL - CONTROL ENCLOSURE | | | | | | | \$ 2,347,937 | \$ 1,894,121 | \$ 702,815 | \$ 4,944,874 |
| 4.Barrett 138 kV Substation Upgrades | | | | | | | \$ 25,513,220 | \$ 10,214,926 | \$ 5,781,821 | \$ 41,509,967 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 9.1 | Mob / Demob | 1.0 | LS | | 358,811.17 | 153,776.22 | \$ - | \$ 358,811 | \$ 153,776 | \$ 512,587 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 9.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 300,199.67 | | \$ - | \$ 300,200 | \$ - | \$ 300,200 |
| 9.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1 | LS | | 1,200,798.69 | | \$ - | \$ 1,200,799 | \$ - | \$ 1,200,799 |
| 9.4 | Utility PM and Project Oversight | 1 | LS | | 300,199.67 | | \$ - | \$ 300,200 | \$ - | \$ 300,200 |
| 9.5 | Site Accommodation, Facilities, Storage | 1 | LS | 300,199.67 | | | \$ 300,200 | \$ - | \$ - | \$ 300,200 |
| | Engineering | | | | | | | | | |
| 9.6 | Design Engineering | 1.00 | LS | | 2,401,597.39 | | \$ - | \$ 2,401,597 | \$ - | \$ 2,401,597 |
| 9.7 | LiDAR /GPR | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.8 | Geotech | 5.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 13,650 | \$ 9,100 | \$ 22,750 |
| 9.9 | Surveying/Staking | 1.00 | Site | | 210,139.77 | | \$ - | \$ 210,140 | \$ - | \$ 210,140 |
| | Testing & Commissioning | | | | | | | | | |
| 9.10 | Testing & Commissioning of SS and Equipment | 1.00 | LS | | 1,125,748.78 | | \$ - | \$ 1,125,749 | \$ - | \$ 1,125,749 |
| | Permitting and Additional Costs | | | | | | | | | |
| 9.11 | Physical Security | 1.00 | LS | | 6,546.96 | | \$ - | \$ 6,547 | \$ - | \$ 6,547 |
| 9.12 | Environmental Licensing & Permitting Costs & related legal cost | 1.00 | LS | | 300,199.67 | | \$ - | \$ 300,200 | \$ - | \$ 300,200 |
| 9.13 | Environmental-special studies/investigation | 1.00 | LS | | - | 1,600,000.00 | \$ - | \$ - | \$ 1,600,000 | \$ 1,600,000 |
| 9.14 | Warranties / LOC's | 1.00 | LS | | 90,059.90 | | \$ - | \$ 90,060 | \$ - | \$ 90,060 |
| 9.15 | Laydown Lease | - | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 9.16 | Real Estate (Acquisition) | 1.00 | LS | | - | 1,956,171.00 | \$ - | \$ - | \$ 1,956,171 | \$ 1,956,171 |
| 9.17 | Legal Fees (Real estate) | 1.00 | LS | | - | 58,685.13 | \$ - | \$ - | \$ 58,685 | \$ 58,685 |
| 9.18 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 9.19 | Bonds | 1 | LS | | - | \$ 1,540,000 | \$ - | \$ - | \$ 1,540,000 | \$ 1,540,000 |
| 9.20 | Sales Tax on Materials | 8.80% | LS | 25,513,219.69 | | | \$ 2,245,163 | \$ - | \$ - | \$ 2,245,163 |
| 9.21 | Fees for permits, including roadway, railroad, building or other local permits | 1.00 | LS | | 41,509.97 | | \$ - | \$ 41,510 | \$ - | \$ 41,510 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 2,545,363 | \$ 6,349,462 | \$ 5,317,732 | \$ 14,212,557 |

5.Dunwoodie 345 kV GIS Substation

Total: \$ 64,677,743

| NEXtera Energy- TO41 Core 6 | | | | |
|--|-----------------|---------------|---------------|---------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| 5.Dunwoodie 345 kV GIS Substation | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | \$ 715,227 | \$ 492,489 | \$ 284,198 | \$ 1,491,913 |
| 2. SUBSTATION FOUNDATIONS | \$ 1,502,773 | \$ 1,654,755 | \$ 1,037,109 | \$ 4,194,637 |
| 3. SUBSTATION STRUCTURES | \$ 118,233 | \$ 50,594 | \$ 21,683 | \$ 190,511 |
| 4. MAJOR EQUIPMENT | \$ 13,711,425 | \$ 6,531,420 | \$ 4,327,480 | \$ 24,570,325 |
| 5. LOW VOLTAGE & CONTROL CABLE | \$ 7,946 | \$ 2,149 | \$ 430 | \$ 10,525 |
| 6. CONDUIT & CABLE TRENCH | \$ 193,893 | \$ 41,164 | \$ 11,101 | \$ 246,157 |
| 7. GROUND GRID | \$ 38,496 | \$ 27,323 | \$ 6,181 | \$ 72,001 |
| 8. CONTROL ENCLOSURE | \$ 3,554,098 | \$ 2,647,434 | \$ 1,025,664 | \$ 7,227,196 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 1,922,837 | \$ 3,828,536 | \$ 3,989,193 | \$ 9,740,565 |
| Turnkey cost (HVDC, GIS) | \$ 10,165,000 | \$ 6,099,000 | \$ 4,066,000 | \$ 20,330,000 |
| Non-Turnkey cost | \$ 11,599,927 | \$ 9,176,864 | \$ 6,637,039 | \$ 27,413,830 |
| SUBTOTAL (Costs): | \$ 21,764,927 | \$ 15,275,864 | \$ 10,703,039 | \$ 47,743,830 |
| CONTRACTOR MARK-UP (OH&P) | \$ 2,697,887 | \$ 2,017,775 | \$ 1,438,627 | \$ 6,154,289 |
| SUBTOTAL: | \$ 24,462,814 | \$ 17,293,639 | \$ 12,141,665 | \$ 53,898,119 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 4,892,563 | \$ 3,458,728 | \$ 2,428,333 | \$ 10,779,624 |
| TOTAL: | \$ 29,355,377 | \$ 20,752,367 | \$ 14,569,999 | \$ 64,677,743 |

| Description of Work: Construct a new Dunwoodie 345kV GIS substation. Loop in the Pleasantville (2) and Sprain Brook lines and connect back to the existing Dunwoodie 345kV substation. | | | | | | | | | | |
|--|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
| 5.Dunwoodie 345 kV GIS Substation | | | | | | | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | | | | |
| 1.1 | Site Clearing | 1.6 | ACRE | - | 10,800.00 | 7,200.00 | \$ - | \$ 17,137 | \$ 11,425 | \$ 28,562 |
| 1.2 | Demolition | 0 | LS | - | 600,000.00 | 400,000.00 | \$ - | \$ - | \$ - | \$ - |
| 1.3 | New Access Road - 20' | 1,263 | SY | 4.85 | 7.20 | 4.80 | \$ 6,124 | \$ 9,092 | \$ 6,061 | \$ 21,278 |
| 1.4 | Strip and Dispose Top Soil | 2,560 | CY | | 24.50 | 10.50 | \$ - | \$ 62,720 | \$ 26,880 | \$ 89,600 |
| 1.5 | Site Grading- Excavation for Substation Pad | 7,680 | CY | | 9.00 | 6.00 | \$ - | \$ 69,120 | \$ 46,080 | \$ 115,200 |
| 1.6 | Site Grading- Excavation for Substation Pad-Rock excavation-Hauling and disposal | 4,147 | CY | | 21.00 | 9.00 | \$ - | \$ 87,091.20 | \$ 37,324.80 | \$ 124,416.00 |
| 1.7 | Site Grading- Fill for Substation Pad (site borrow, compacted in place) | 6,221 | CY | | 2.40 | 1.60 | \$ - | \$ 14,930 | \$ 9,953 | \$ 24,883 |
| 1.8 | Site Grading -Fill for Substation Pad (import, compacted in place) | 4,147 | CY | 25.00 | 2.40 | 1.60 | \$ 103,680 | \$ 9,953 | \$ 6,636 | \$ 120,269 |
| 1.9 | Blasting | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 1.10 | Install substation 8" pad base | 7,680 | SY | 11.00 | 6.00 | 4.00 | \$ 84,480 | \$ 46,080 | \$ 30,720 | \$ 161,280 |
| 1.11 | Site Surfacing - Aggregate 6" Thick | 7,680 | SY | 16.50 | 4.50 | 3.00 | \$ 126,720 | \$ 34,560 | \$ 23,040 | \$ 184,320 |
| 1.12 | 7' Station Fence w/ Barbed Wire & Grounding | 864 | LF | 13.85 | 13.85 | 6.92 | \$ 11,965 | \$ 11,965 | \$ 5,982 | \$ 29,912 |
| 1.13 | 20' Slide Gate & Grounding | 2 | EA | 8,100.00 | 3,245.00 | 1,305.00 | \$ 16,200 | \$ 6,490 | \$ 2,610 | \$ 25,300 |
| 1.14 | 4' Pedestrian gate | 2 | EA | 2,500.00 | 1,000.00 | 350.00 | \$ 5,000 | \$ 2,000 | \$ 700 | \$ 7,700 |
| 1.15 | Storm drain-15" HDPE, INFILTRATION TRENCH, INLET and Hydrodynamic Separator | 1 | LS | 325,073.45 | 83,781.82 | 55,348.36 | \$ 325,073 | \$ 83,782 | \$ 55,348 | \$ 464,204 |
| 1.16 | Seeding | 7,296 | SF | 1.50 | 1.50 | 1.00 | \$ 10,944 | \$ 10,944 | \$ 7,296 | \$ 29,184 |
| 1.17 | Erosion Control-Silt fence install & remove | 2,100 | LF | 2.41 | 3.16 | 0.72 | \$ 5,061 | \$ 6,636 | \$ 1,512 | \$ 13,209 |
| 1.18 | Temporary fencing | 1,400 | LF | 7.50 | 5.25 | 2.25 | \$ 10,500 | \$ 7,350 | \$ 3,150 | \$ 21,000 |
| 1.19 | Substation entrance with asphalt | 486 | SY | 19.50 | 26.00 | 19.50 | \$ 9,479 | \$ 12,639 | \$ 9,479 | \$ 31,597 |
| 1.20 | Concrete curb | 0 | LF | 26.00 | 27.30 | 11.70 | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|---|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|--------------|
| 1.21 | Retaining Wall | 0 | LF | 156.00 | 117.00 | 117.00 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | \$ 715,227 | \$ 492,489 | \$ 284,198 | \$ 1,491,913 |
| 2. SUBSTATION FOUNDATIONS | | | | | | | | | | |
| 2.1 | 345kV, Lightning mast | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | 345kV, A Frame 70' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | 345kV, Bus support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.4 | 345kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.5 | 345kV, Bus support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.6 | 345kV, GIS air terminal | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | 345kV, GIS support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | 345kV, GIS support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.9 | 345kV, GIS Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.10 | 345kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | 345kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.12 | 345kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.13 | 345/138KV, Power Transformer with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.14 | 345kV, Shunt Reactor with oil containment-225MVAR | 305 | CY | 703.89 | 804.44 | 502.78 | \$ 214,685 | \$ 245,354 | \$ 153,346 | \$ 613,386 |
| 2.15 | 345kV, Shunt Reactor with oil containment-100MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.16 | 345kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.17 | 345kV, Circuit Breaker (PASS) | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.18 | 345kV, Circuit Breaker (GIS), outdoor rated | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | 345Kv, GIS Enclosure-BLDG with generator pad | 1,357 | CY | 703.89 | 804.44 | 502.78 | \$ 955,172 | \$ 1,091,625 | \$ 682,266 | \$ 2,729,063 |
| 2.20 | 345kV, Surge arrester | 48 | CY | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 2.21 | 138kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.22 | 138kV, Circuit Breaker, Hybrid circuit breaker | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.23 | 138kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.24 | 138kV, Bus support-1 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.25 | 138kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.26 | 138kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.27 | 138kV, Surge arrester | - | CY | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 2.28 | 138kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.29 | 138kV, A Frame 50' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.30 | Firewall Foundation | 309 | CY | 703.89 | 804.44 | 502.78 | \$ 217,416 | \$ 248,475 | \$ 155,297 | \$ 621,189 |
| 2.31 | Precast Firewall for transformer, PARs, reactors | 4,620 | SF | 25.00 | 15.00 | 10.00 | \$ 115,500 | \$ 69,300 | \$ 46,200 | \$ 231,000 |
| 2.32 | Precast Concrete Piles-12"X80' | - | EA | 18,000.00 | 3,200.00 | 2,800.00 | \$ - | \$ - | \$ - | \$ - |
| 2.33 | Local Control Cabinet foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.34 | 138kV, GIS Enclosure-BLDG & control room | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| TOTAL - 345KV FOUNDATION | | | | | | | \$ 1,502,773 | \$ 1,654,755 | \$ 1,037,109 | \$ 4,194,637 |
| 3. SUBSTATION STRUCTURES | | | | | | | | | | |
| 3.1 | 345kV, Lightning mast | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.2 | 345kV, A Frame 70' | 0 | EA | 48,100.00 | 28,860.00 | 19,240.00 | \$ - | \$ - | \$ - | \$ - |
| 3.3 | 345kV, Bus support-3 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.4 | 345kV, Bus support-3 Ph, low | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | 345kV, Bus support-1 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | 345kV, GIS air terminal | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | 345kV, GIS support-1 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | | | | \$ - |
| 3.8 | 345kV, GIS support-3 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | 345kV, GIS Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | 345kV, Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.11 | 345kV, CCVT | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.12 | 345kV, Disconnect Switch | 0 | EA | 19,240.00 | 11,544.00 | 7,696.00 | \$ - | \$ - | \$ - | \$ - |
| 3.13 | 138kV, Bus support-3 Ph, low | 0 | EA | 4,173.00 | 2,879.76 | 1,919.84 | \$ - | \$ - | \$ - | \$ - |
| 3.14 | 138kV, Bus support-1 Ph, low | 0 | EA | 2,782.00 | 1,919.84 | 1,279.89 | \$ - | \$ - | \$ - | \$ - |
| 3.15 | 138kV, Disconnect Switch | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.16 | 138kV, Cable sealing end | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.17 | 138kV, Surge arrester | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.18 | 138kV, CCVT | 0 | EA | 3,206.67 | 1,924.00 | 1,282.67 | \$ - | \$ - | \$ - | \$ - |
| 3.19 | 138kV, A Frame 50' | 0 | EA | 33,000.00 | 19,800.00 | 13,200.00 | \$ - | \$ - | \$ - | \$ - |
| 3.20 | AL. Bus Tubing, 5" SCH 80 | 0 | LF | 25.00 | 184.94 | 123.29 | \$ - | \$ - | \$ - | \$ - |
| 3.21 | AL. Bus fittings | 0 | LS | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 3.22 | Steel grating and support beams-transformer moat | 43,280 | LB | 2.73 | 1.17 | 0.50 | \$ 118,233 | \$ 50,594 | \$ 21,683 | \$ 190,511 |
| | | | | | | | | | | |
| TOTAL - SUBSTATION STRUCTURES & GAS-INSULATED CONDUCTOR | | | | | | | \$ 118,233 | \$ 50,594 | \$ 21,683 | \$ 190,511 |
| 4. MAJOR EQUIPMENT | | | | | | | | | | |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|-------------------------------------|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 4.1 | 345kV, GIS air terminal | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.2 | 345kV, GIS Cable sealing end | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.3 | 345kV, Cable sealing end | 0 | EA | 17,400.00 | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.4 | 345kV, CCVT | 0 | EA | | 15,941.99 | 6,832.28 | \$ - | \$ - | \$ - | \$ - |
| 4.5 | 345kV, Disconnect Switch | 0 | EA | 57,720.00 | 34,632.00 | 23,088.00 | \$ - | \$ - | \$ - | \$ - |
| 4.6 | 345/138kV, Power Transformer with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.7 | Transport & Testing- Transformer | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.8 | 345kV, Shunt Reactor with oil containment-225MVAR | 1 | EA | 3,026,425.00 | 3,520.00 | 880.00 | \$ 3,026,425 | \$ 3,520 | \$ 880 | \$ 3,030,825 |
| 4.9 | 345kV, Shunt Reactor with oil containment-100MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.10 | Transport & Testing- Shunt Reactor | 1 | EA | | 337,900.00 | 221,600.00 | \$ - | \$ 337,900 | \$ 221,600 | \$ 559,500 |
| 4.11 | 345kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.12 | 345kV, Gas Insulated Switchgear, BAAH Arrangement | 12 | BKR | 847,083.33 | 508,250.00 | 338,833.33 | \$ 10,165,000 | \$ 6,099,000 | \$ 4,066,000 | \$ 20,330,000 |
| 4.13 | 345kV, Circuit Breaker (PASS) | 0 | EA | | 57,239.00 | 24,531.00 | \$ - | \$ - | \$ - | \$ - |
| 4.14 | 345kV, Circuit Breaker (GIS), outdoor rated | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.15 | 345kV, Circuit Breaker (GIS), outdoor rated-Line surge Arrester (3phase) | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.16 | 345kV, surge Arrester | 0 | EA | 6,669.00 | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.17 | 138kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Transport & Testing- Phase Angle Regulating Transformer, 138kV | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | 138kV, Gas Insulated Switchgear, BAAH Arrangement | 0 | BKR | | 205,800.00 | 4,200.00 | \$ - | \$ - | \$ - | \$ - |
| 4.20 | 138kV, Circuit Breaker, Hybrid circuit breaker | 0 | EA | | 13,559.00 | 5,811.00 | \$ - | \$ - | \$ - | \$ - |
| 4.21 | 138kV, Disconnect Switch | 0 | EA | 37,700.00 | 11,875.50 | 5,089.50 | \$ - | \$ - | \$ - | \$ - |
| 4.22 | 138kV, Cable sealing end | 0 | EA | 11,600.00 | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.23 | 138kV, CCVT | 0 | EA | | 7,970.08 | 3,415.75 | \$ - | \$ - | \$ - | \$ - |
| 4.24 | 138kV, Surge arrester | 0 | EA | | 4,200.00 | 1,800.00 | \$ - | \$ - | \$ - | \$ - |
| 4.25 | Station service transformers- 120/208v-250VA | 2 | EA | 260,000.00 | 45,500.00 | 19,500.00 | \$ 520,000 | \$ 91,000 | \$ 39,000 | \$ 650,000 |
| 4.26 | 345kV Gas-Insulated Bus Conductor | 0 | LF | 550.00 | 275.00 | 82.50 | | | | \$ - |
| 4.27 | 345kV Gas-Insulated Bus Conductor-elbow | 0 | EA | 2,500.00 | 1,250.00 | 375.00 | | | | \$ - |
| 4.28 | Transport & Testing- GIL | 0 | LS | | - | - | | | | \$ - |
| | | | | | | | | | | |
| TOTAL - MAJOR EQUIPMENT | | | | | | | \$ 13,711,425 | \$ 6,531,420 | \$ 4,327,480 | \$ 24,570,325 |
| 5. LOW VOLTAGE & CONTROL CABLE | | | | | | | | | | |
| 5.1 | Control Cables | 1,500 | LF | 5.30 | 1.43 | 0.29 | \$ 7,946 | \$ 2,149 | \$ 430 | \$ 10,525 |
| 5.2 | | | LF | | - | - | \$ - | \$ - | \$ - | \$ - |
| TOTAL - LOW VOLTAGE & CONTROL CABLE | | | | | | | \$ 7,946 | \$ 2,149 | \$ 430 | \$ 10,525 |
| 6. CONDUIT & CABLE TRENCH | | | | | | | | | | |
| 6.1 | Conduit, PVC, 6", SCH 40 | | LF | 20.70 | 13.28 | 6.64 | \$ - | \$ - | \$ - | \$ - |
| 6.2 | Conduit, PVC, 4", SCH 40 | 300 | LF | 11.15 | 10.80 | 5.40 | \$ 3,345 | \$ 3,240 | \$ 1,620 | \$ 8,205 |
| 6.3 | Conduit, PVC, 3", SCH 40 | | LF | 8.10 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.4 | Conduit, PVC, 2", SCH 40 | | LF | 3.95 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.5 | Conduit, PVC, 1", SCH 40 | | LF | 1.90 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.6 | Cable Trench | 715 | LF | 266.50 | 53.04 | 13.26 | \$ 190,548 | \$ 37,924 | \$ 9,481 | \$ 237,952 |
| 6.7 | | | | | | | | | | |
| 6.8 | 138kV UG- Conduit | | LF | 266.73 | 202.15 | 100.00 | \$ - | \$ - | \$ - | \$ - |
| 6.9 | 138kV UG- Cable | | LF | 145.00 | 87.00 | 58.00 | \$ - | \$ - | \$ - | \$ - |
| 6.10 | 138kV UG- Termination | | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ - | \$ - | \$ - | \$ - |
| 6.11 | 345kV UG- Conduit | | LF | 266.73 | 202.15 | 100.00 | \$ - | \$ - | \$ - | \$ - |
| 6.12 | 345kV UG- Cable | | LF | 167.00 | 100.20 | 66.80 | \$ - | \$ - | \$ - | \$ - |
| 6.13 | 345kV UG- Termination | | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ - | \$ - | \$ - | \$ - |
| 6.14 | Fiber Optic Cable | | | 7.40 | 3.33 | 2.22 | | | | |
| 6.15 | Ground Continuity Conductor | | | 13.04 | 7.53 | 5.02 | \$ - | \$ - | \$ - | \$ - |
| TOTAL - CONDUIT & CABLE TRENCH | | | | | | | \$ 193,893 | \$ 41,164 | \$ 11,101 | \$ 246,157 |
| 7. GROUND GRID | | | | | | | | | | |
| 7.1 | Cable, 4/0 AWG Bare Copper, 7 Strand Ground Conductor | 3,762 | LF | 2.09 | 3.42 | 1.46 | \$ 7,866 | \$ 12,848 | \$ 5,506 | \$ 26,221 |
| 7.2 | Caweld, DSA, 4/0 , T, CROSS | 112 | EA | 165.00 | 75.00 | | \$ 18,480 | \$ 8,400 | \$ - | \$ 26,880 |
| 7.3 | Ground Rod, 3/4" x 15' | 90 | EA | 135.00 | 67.50 | 7.50 | \$ 12,150 | \$ 6,075 | \$ 675 | \$ 18,900 |
| TOTAL - GROUND GRID | | | | | | | \$ 38,496 | \$ 27,323 | \$ 6,181 | \$ 72,001 |
| 8. CONTROL ENCLOSURE | | | | | | | | | | |
| 8.1 | 345kv GIS Bldg | 1 | EA | 2,481,442.00 | 1,737,009.40 | 744,432.60 | \$ 2,481,442 | \$ 1,737,009 | \$ 744,433 | \$ 4,962,884 |
| 8.2 | 138kv GIS/Control Bldg | 0 | EA | 1,145,280.92 | 801,696.65 | 343,584.28 | \$ - | \$ - | \$ - | \$ - |
| 8.3 | Primary Line Relays (87L): SEL-411L | 7 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 149,297 | \$ 119,437 | \$ 29,859 | \$ 298,594 |
| 8.4 | Backup Line Relays (87L): GE L90 | 7 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 149,297 | \$ 119,437 | \$ 29,859 | \$ 298,594 |
| 8.5 | Primary Bay Control: SEL-451 | 4 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 85,312 | \$ 68,250 | \$ 17,062 | \$ 170,625 |
| 8.6 | Backup Bay Control: SEL-451 | 4 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 85,312 | \$ 68,250 | \$ 17,062 | \$ 170,625 |
| 8.7 | Primary Transformer/Reactor/PAR Differential Relays: SEL-487E | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.8 | Backup Transformer/Reactor/PAR Differential Relays: GE T60 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.9 | Primary Bus Differential Relays: SEL-487B | 3 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 63,984 | \$ 51,187 | \$ 12,797 | \$ 127,969 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 8.10 | Backup Bus Differential Relays: GE B90 | 3 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 63,984 | \$ 51,187 | \$ 12,797 | \$ 127,969 |
| 8.11 | RTU Panel A: SEL-2240 Axion, SEL-2730M ENET SW., SEL-2407 GPS, Modem, SEL-2523 Ann | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.12 | RTU Panel B: SEL-2730M Ethernet Switch, SEL-2407 GPS Clock, SEL-2523 Annnunciator | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.13 | HMI Panel | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.14 | Primary Line Relays (87L): SEL-411L | 2 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |
| 8.15 | Backup Line Relays (87L): GE L90 | 2 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |
| 8.14 | 125VDC Battery System | 2 | LS | 25,000.00 | 22,750.00 | 9,750.00 | \$ 50,000 | \$ 45,500 | \$ 19,500 | \$ 115,000 |
| 8.15 | Control house AC Panel | 1 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ 65,000 | \$ 91,000 | \$ 39,000 | \$ 195,000 |
| 8.16 | Control House DC Panel | 1 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ 65,000 | \$ 91,000 | \$ 39,000 | \$ 195,000 |
| 8.17 | Generator | 1 | EA | 130,000.00 | 72,800.00 | 31,200.00 | \$ 130,000 | \$ 72,800 | \$ 31,200 | \$ 234,000 |
| TOTAL - CONTROL ENCLOSURE | | | | | | | \$ 3,554,098 | \$ 2,647,434 | \$ 1,025,664 | \$ 7,227,196 |
| 5.Dunwoodie 345 kV GIS Substation | | | | | | | \$ 19,842,091 | \$ 11,447,328 | \$ 6,713,846 | \$ 38,003,264 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 9.1 | Mob / Demob | 1.0 | LS | | 279,866.08 | 119,942.61 | \$ - | \$ 279,866 | \$ 119,943 | \$ 399,809 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 9.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 176,732.64 | | \$ - | \$ 176,733 | \$ - | \$ 176,733 |
| 9.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1 | LS | | 706,930.58 | | \$ - | \$ 706,931 | \$ - | \$ 706,931 |
| 9.4 | Utility PM and Project Oversight | 1 | LS | | 176,732.64 | | \$ - | \$ 176,733 | \$ - | \$ 176,733 |
| 9.5 | Site Accommodation, Facilities, Storage | 1 | LS | 176,732.64 | | | \$ 176,733 | \$ - | \$ - | \$ 176,733 |
| | Engineering | | | | | | | | | |
| 9.6 | Design Engineering | 1.00 | LS | | 1,413,861.16 | | \$ - | \$ 1,413,861 | \$ - | \$ 1,413,861 |
| 9.7 | LiDAR /GPR | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.8 | Geotech | 5.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 13,650 | \$ 9,100 | \$ 22,750 |
| 9.9 | Surveying/Staking | 1.00 | Site | | 123,712.85 | | \$ - | \$ 123,713 | \$ - | \$ 123,713 |
| | Testing & Commissioning | | | | | | | | | |
| 9.10 | Testing & Commissioning of SS and Equipment | 1.00 | LS | | 662,747.42 | | \$ - | \$ 662,747 | \$ - | \$ 662,747 |
| | Permitting and Additional Costs | | | | | | | | | |
| 9.11 | Physical Security | 1.00 | LS | | 6,546.96 | | \$ - | \$ 6,547 | \$ - | \$ 6,547 |
| 9.12 | Environmental Licensing & Permitting Costs & related legal cost | 1.00 | LS | | 176,732.64 | | \$ - | \$ 176,733 | \$ - | \$ 176,733 |
| 9.13 | Environmental-special studies/investigation | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.14 | Warranties / LOC's | 1.00 | LS | | 53,019.79 | | \$ - | \$ 53,020 | \$ - | \$ 53,020 |
| 9.15 | Laydown Lease | - | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 9.16 | Real Estate (Acquisition) | 1.00 | LS | | | 2,505,000.00 | \$ - | \$ - | \$ 2,505,000 | \$ 2,505,000 |
| 9.17 | Legal Fees (Real estate) | 1.00 | LS | | - | 75,150.00 | \$ - | \$ - | \$ 75,150 | \$ 75,150 |
| 9.18 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 9.19 | Bonds | 1 | LS | | - | \$ 1,280,000 | \$ - | \$ - | \$ 1,280,000 | \$ 1,280,000 |
| 9.20 | Sales Tax on Materials | 8.80% | LS | 19,842,090.70 | | | \$ 1,746,104 | \$ - | \$ - | \$ 1,746,104 |
| 9.21 | Fees for permits, including roadway, railroad, building or other local permits | 1.00 | LS | | 38,003.26 | | \$ - | \$ 38,003 | \$ - | \$ 38,003 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 1,922,837 | \$ 3,828,536 | \$ 3,989,193 | \$ 9,740,565 |

NEXTera Energy- TO41 Core 6

6.Elwood 138 kV Substation Upgrades

Total: \$ 7,946,839

| NEXTera Energy- TO41 Core 6 | | | | | | | | | | |
|--|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|------------|
| | | Material Supply | Labor Supply | Equip Supply | Total | | | | | |
| 6.Elwood 138 kV Substation Upgrades | | | | | | | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | | \$ - | \$ 60,000 | \$ 40,000 | \$ 100,000 | | | | | |
| 2. SUBSTATION FOUNDATIONS | | \$ 88,690 | \$ 101,359 | \$ 63,350 | \$ 253,399 | | | | | |
| 3. SUBSTATION STRUCTURES | | \$ 118,233 | \$ 50,594 | \$ 21,683 | \$ 190,511 | | | | | |
| 4. MAJOR EQUIPTMENT | | \$ 3,226,531 | \$ 201,920 | \$ 129,480 | \$ 3,557,931 | | | | | |
| 5. LOW VOLTAGE & CONTROL CABLE | | \$ 15,893 | \$ 4,298 | \$ 860 | \$ 21,050 | | | | | |
| 6. CONDUIT & CABLE TRENCH | | \$ 6,690 | \$ 6,480 | \$ 3,240 | \$ 16,410 | | | | | |
| 7. GROUND GRID | | \$ - | \$ - | \$ - | \$ - | | | | | |
| 8. CONTROL ENCLOSURE | | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 | | | | | |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | \$ 350,131 | \$ 866,723 | \$ 170,709 | \$ 1,387,563 | | | | | |
| SUBTOTAL (Costs): | | \$ 3,848,823 | \$ 1,325,499 | \$ 437,852 | \$ 5,612,175 | | | | | |
| CONTRACTOR MARK-UP (OH&P) | | \$ 692,788 | \$ 238,590 | \$ 78,813 | \$ 1,010,191 | | | | | |
| SUBTOTAL: | | \$ 4,541,612 | \$ 1,564,089 | \$ 516,666 | \$ 6,622,366 | | | | | |
| CONTINGENCY ON ENTIRE PROJECT | | \$ 908,322 | \$ 312,818 | \$ 103,333 | \$ 1,324,473 | | | | | |
| TOTAL: | | \$ 5,449,934 | \$ 1,876,907 | \$ 619,999 | \$ 7,946,839 | | | | | |
| Description of Work: Replace the existing 80MVAr reactor (1 block) at the existitng elwood 138kv station with an 80 MVAR reactor (2 blocks of 40 MVAr) | | | | | | | | | | |
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
| 6.Elwood 138 kV Substation Upgrades | | | | | | | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | | | | |
| 1.1 | Site Clearing | | ACRE | - | 10,800.00 | 7,200.00 | \$ - | \$ - | \$ - | \$ - |
| 1.2 | Demolition | 1 | LS | - | 60,000.00 | 40,000.00 | \$ - | \$ 60,000 | \$ 40,000 | \$ 100,000 |
| 1.3 | New Access Road - 20' | | SY | 4.85 | 7.20 | 4.80 | \$ - | \$ - | \$ - | \$ - |
| 1.4 | Strip and Dispose Top Soil | 0 | CY | | 24.50 | 10.50 | \$ - | \$ - | \$ - | \$ - |
| 1.5 | Site Grading- Excavation for Substation Pad | 0 | CY | | 9.00 | 6.00 | \$ - | \$ - | \$ - | \$ - |
| 1.6 | Site Grading- Excavation for Substation Pad-Rock excavation-Hauling and disposal | 0 | CY | | 21.00 | 9.00 | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Site Grading- Fill for Substation Pad (site borrow, compacted in place) | 0 | CY | | 2.40 | 1.60 | \$ - | \$ - | \$ - | \$ - |
| 1.8 | Site Grading -Fill for Substation Pad (import, compacted in place) | 0 | CY | 25.00 | 2.40 | 1.60 | \$ - | \$ - | \$ - | \$ - |
| 1.9 | Blasting | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 1.10 | Install substation 8" pad base | 0 | SY | 11.00 | 6.00 | 4.00 | \$ - | \$ - | \$ - | \$ - |
| 1.11 | Site Surfacing - Aggregate 6" Thick | 0 | SY | 16.50 | 4.50 | 3.00 | \$ - | \$ - | \$ - | \$ - |
| 1.12 | 7' Station Fence w/ Barbed Wire & Grounding | | LF | 13.85 | 13.85 | 6.92 | \$ - | \$ - | \$ - | \$ - |
| 1.13 | 20' Slide Gate & Grounding | | EA | 8,100.00 | 3,245.00 | 1,305.00 | \$ - | \$ - | \$ - | \$ - |
| 1.14 | 4' Pedestrian gate | | EA | 2,500.00 | 1,000.00 | 350.00 | \$ - | \$ - | \$ - | \$ - |
| 1.15 | Storm drain-15" HDPE, INFILTRATION TRENCH, INLET and Hydrodynamic Separator | | LS | 446,976.00 | - | - | \$ - | \$ - | \$ - | \$ - |
| 1.16 | Seeding | | SF | 1.50 | 1.50 | 1.00 | \$ - | \$ - | \$ - | \$ - |
| 1.17 | Erosion Control-Silt fence install & remove | | LF | 2.41 | 3.16 | 0.72 | \$ - | \$ - | \$ - | \$ - |
| 1.18 | Temporary fencing | | LF | 7.50 | 5.25 | 2.25 | \$ - | \$ - | \$ - | \$ - |
| 1.19 | Substation entrance with asphalt | | SY | 19.50 | 26.00 | 19.50 | \$ - | \$ - | \$ - | \$ - |
| 1.20 | Concrete curb | 0 | LF | 26.00 | 27.30 | 11.70 | \$ - | \$ - | \$ - | \$ - |
| 1.21 | Retaining Wall | 0 | LF | 156.00 | 117.00 | 117.00 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | \$ - | \$ 60,000 | \$ 40,000 | \$ 100,000 |
| 2. SUBSTATION FOUNDATIONS | | | | | | | | | | |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|---|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|------------|
| 2.1 | 345kV, Lightning mast | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | 345kV, A Frame 70' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | 345kV, Bus support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.4 | 345kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.5 | 345kV, Bus support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.6 | 345kV, GIS air terminal | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | 345kV, GIS support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | 345kV, GIS support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.9 | 345kV, GIS Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.10 | 345kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | 345kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.12 | 345kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.13 | 345/138KV, Power Transformer with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.14 | 345kV, Shunt Reactor with oil containment-150MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.15 | 345kV, Shunt Reactor with oil containment-100MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.16 | 345kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.17 | 345kV, Circuit Breaker (PASS) | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.18 | 345kV, Circuit Breaker (GIS), outdoor rated | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | 345Kv, GIS Enclosure-BLDG with generator pad | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.20 | 345kV, Surge arrester | - | CY | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 2.21 | 138kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.22 | 138kV, Shunt Reactor with oil containment-80MVAR | 126 | CY | 703.89 | 804.44 | 502.78 | \$ 88,690 | \$ 101,359 | \$ 63,350 | \$ 253,399 |
| 2.23 | 138kV, Circuit Breaker, Hybrid circuit breaker | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.24 | 138kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.25 | 138kV, Bus support-1 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.26 | 138kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.27 | 138kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.28 | 138kV, Surge arrester | - | CY | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 2.29 | 138kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.30 | 138kV, A Frame 50' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Firewall Foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.32 | Precast Firewall for transformer, PARs, reactors | | SF | 25.00 | 15.00 | 10.00 | \$ - | \$ - | \$ - | \$ - |
| 2.33 | Precast Concrete Piles-12"X80' | - | EA | 18,000.00 | 3,200.00 | 2,800.00 | \$ - | \$ - | \$ - | \$ - |
| 2.34 | Local Control Cabinet foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.35 | 138kV, GIS Enclosure-BLDG & control room | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| TOTAL - 345KV FOUNDATION | | | | | | | \$ 88,690 | \$ 101,359 | \$ 63,350 | \$ 253,399 |
| 3. SUBSTATION STRUCTURES | | | | | | | | | | |
| 3.1 | 345kV, Lightning mast | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.2 | 345kV, A Frame 70' | 0 | EA | 48,100.00 | 28,860.00 | 19,240.00 | \$ - | \$ - | \$ - | \$ - |
| 3.3 | 345kV, Bus support-3 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.4 | 345kV, Bus support-3 Ph, low | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | 345kV, Bus support-1 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | 345kV, GIS air terminal | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | 345kV, GIS support-1 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | 345kV, GIS support-3 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | 345kV, GIS Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | 345kV, Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.11 | 345kV, CCVT | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.12 | 345kV, Disconnect Switch | 0 | EA | 19,240.00 | 11,544.00 | 7,696.00 | \$ - | \$ - | \$ - | \$ - |
| 3.13 | 138kV, Bus support-3 Ph, low | 0 | EA | 4,173.00 | 2,879.76 | 1,919.84 | \$ - | \$ - | \$ - | \$ - |
| 3.14 | 138kV, Bus support-1 Ph, low | 0 | EA | 2,782.00 | 1,919.84 | 1,279.89 | \$ - | \$ - | \$ - | \$ - |
| 3.15 | 138kV, Disconnect Switch | 0 | EA | | | | \$ - | \$ - | \$ - | |
| 3.16 | 138kV, Cable sealing end | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.17 | 138kV, Surge arrester | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.18 | 138kV, CCVT | 0 | EA | 3,206.67 | 1,924.00 | 1,282.67 | \$ - | \$ - | \$ - | \$ - |
| 3.19 | 138kV, A Frame 50' | 0 | EA | 33,000.00 | 19,800.00 | 13,200.00 | \$ - | \$ - | \$ - | \$ - |
| 3.20 | AL. Bus Tubing, 5" SCH 80 | 0 | LF | 25.00 | 184.94 | 123.29 | \$ - | \$ - | \$ - | \$ - |
| 3.21 | AL. Bus fittings | 0 | LS | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 3.22 | Steel grating and support beams-transformer moat | 43,280 | LB | 2.73 | 1.17 | 0.50 | \$ 118,233 | \$ 50,594 | \$ 21,683 | \$ 190,511 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SUBSTATION STRUCTURES & GAS-INSULATED CONDUCTOR | | | | | | | \$ 118,233 | \$ 50,594 | \$ 21,683 | \$ 190,511 |
| 4. MAJOR EQUIPMENT | | | | | | | | | | |
| 4.1 | 345kV, GIS air terminal | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.2 | 345kV, GIS Cable sealing end | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.3 | 345kV, Cable sealing end | 0 | EA | | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.4 | 345kV, CCVT | 0 | EA | | 15,941.99 | 6,832.28 | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|-------------------------------------|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|--------------|
| 4.5 | 345kV, Disconnect Switch | 0 | EA | | 7,234.50 | 3,100.50 | \$ - | \$ - | \$ - | \$ - |
| 4.6 | 345/138KV, Power Transformer with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.7 | Transport & Testing- Transformer | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.8 | 345kV, Shunt Reactor with oil containment-150MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.9 | 345kV, Shunt Reactor with oil containment-100MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.10 | Transport & Testing- Shunt Reactor | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.11 | 345kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.12 | 345kV, Gas Insulated Switchgear, BAAH Arrangement | 0 | BKR | | 205,800.00 | 4,200.00 | \$ - | \$ - | \$ - | \$ - |
| 4.13 | 345kV, Circuit Breaker (PASS) | 0 | EA | | 57,239.00 | 24,531.00 | \$ - | \$ - | \$ - | \$ - |
| 4.14 | 345kV, Circuit Breaker (GIS), outdoor rated | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.15 | 345kV, Circuit Breaker (GIS), outdoor rated-Line surge Arrester (3phase) | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.16 | 345kV, surge Arrester | 0 | EA | | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.17 | 138kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Transport & Testing- Phase Angle Regulating Transformer, 138kV | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Transport & Testing- Transformer | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.20 | 138kV, Shunt Reactor with oil containment-80MVAR | 1 | EA | 3,226,531.00 | 3,520.00 | 880.00 | \$ 3,226,531 | \$ 3,520 | \$ 880 | \$ 3,230,931 |
| 4.21 | Transport & Testing- Shunt Reactor | 1 | EA | | 198,400.00 | 128,600.00 | \$ - | \$ 198,400 | \$ 128,600 | \$ 327,000 |
| 4.22 | 138kV, Gas Insulated Switchgear, BAAH Arrangement | 0 | BKR | | 205,800.00 | 4,200.00 | \$ - | \$ - | \$ - | \$ - |
| 4.23 | 138kV, Circuit Breaker, Hybrid circuit breaker | 0 | EA | | 13,559.00 | 5,811.00 | \$ - | \$ - | \$ - | \$ - |
| 4.24 | 138kV, Disconnect Switch | 0 | EA | 37,700.00 | 11,875.50 | 5,089.50 | \$ - | \$ - | \$ - | \$ - |
| 4.25 | 138kV, Cable sealing end | 0 | EA | 11,600.00 | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.26 | 138kV, CCVT | 0 | EA | | 7,970.08 | 3,415.75 | \$ - | \$ - | \$ - | \$ - |
| 4.27 | 138kV, Surge arrester | 0 | EA | | 4,200.00 | 1,800.00 | \$ - | \$ - | \$ - | \$ - |
| 4.28 | Station service transformers- 120/208v-250VA | 0 | EA | | 45,500.00 | 19,500.00 | \$ - | \$ - | \$ - | \$ - |
| 4.29 | 345kV Gas-Insulated Bus Conductor | 0 | LF | 550.00 | 275.00 | 82.50 | \$ - | \$ - | \$ - | \$ - |
| 4.30 | 345kV Gas-Insulated Bus Conductor-elbow | 0 | EA | 2,500.00 | 1,250.00 | 375.00 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - MAJOR EQUIPMENT | | | | | | | \$ 3,226,531 | \$ 201,920 | \$ 129,480 | \$ 3,557,931 |
| 5. LOW VOLTAGE & CONTROL CABLE | | | | | | | | | | |
| 5.1 | Control Cables | 3,000 | LF | 5.30 | 1.43 | 0.29 | \$ 15,893 | \$ 4,298 | \$ 860 | \$ 21,050 |
| 5.2 | | | LF | | - | - | \$ - | \$ - | \$ - | \$ - |
| TOTAL - LOW VOLTAGE & CONTROL CABLE | | | | | | | \$ 15,893 | \$ 4,298 | \$ 860 | \$ 21,050 |
| 6. CONDUIT & CABLE TRENCH | | | | | | | | | | |
| 6.1 | Conduit, PVC, 6", SCH 40 | | LF | 20.70 | 13.28 | 6.64 | \$ - | \$ - | \$ - | \$ - |
| 6.2 | Conduit, PVC, 4", SCH 40 | 600 | LF | 11.15 | 10.80 | 5.40 | \$ 6,690 | \$ 6,480 | \$ 3,240 | \$ 16,410 |
| 6.3 | Conduit, PVC, 3", SCH 40 | | LF | 8.10 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.4 | Conduit, PVC, 2", SCH 40 | | LF | 3.95 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.5 | Conduit, PVC, 1", SCH 40 | | LF | 1.90 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.6 | Cable Trench | | LF | 266.50 | 53.04 | 13.26 | \$ - | \$ - | \$ - | \$ - |
| 6.7 | | | | | | | | | | |
| 6.8 | 138kV UG- Conduit | | LF | 266.73 | 202.15 | 100.00 | \$ - | \$ - | \$ - | \$ - |
| 6.9 | 138kV UG- Cable | | LF | 145.00 | 87.00 | 58.00 | \$ - | \$ - | \$ - | \$ - |
| 6.10 | 138kV UG- Termination | | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ - | \$ - | \$ - | \$ - |
| 6.11 | 345kV UG- Conduit | | LF | 266.73 | 202.15 | 100.00 | \$ - | \$ - | \$ - | \$ - |
| 6.12 | 345kV UG- Cable | | LF | 167.00 | 100.20 | 66.80 | \$ - | \$ - | \$ - | \$ - |
| 6.13 | 345kV UG- Termination | | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ - | \$ - | \$ - | \$ - |
| 6.14 | Fiber Optic Cable | | | 7.40 | 3.33 | 2.22 | | | | |
| 6.15 | Ground Continuity Conductor | | | 13.04 | 7.53 | 5.02 | \$ - | \$ - | \$ - | \$ - |
| TOTAL - CONDUIT & CABLE TRENCH | | | | | | | \$ 6,690 | \$ 6,480 | \$ 3,240 | \$ 16,410 |
| 7. GROUND GRID | | | | | | | | | | |
| 7.1 | Cable, 4/0 AWG Bare Copper, 7 Strand Ground Conductor | 0 | LF | 2.09 | 3.42 | 1.46 | \$ - | \$ - | \$ - | \$ - |
| 7.2 | Caweld, DSA, 4/0 , T, CROSS | 0 | EA | 165.00 | 75.00 | | \$ - | \$ - | \$ - | \$ - |
| 7.3 | Ground Rod, 3/4" x 15' | 0 | EA | 135.00 | 67.50 | 7.50 | \$ - | \$ - | \$ - | \$ - |
| TOTAL - GROUND GRID | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 8. CONTROL ENCLOSURE | | | | | | | | | | |
| 8.1 | 345kv GIS Bldg | 0 | EA | 2,481,442.00 | 1,737,009.40 | 744,432.60 | \$ - | \$ - | \$ - | \$ - |
| 8.2 | 138kv GIS/Control Bldg | 0 | EA | 1,145,280.92 | 801,696.65 | 343,584.28 | \$ - | \$ - | \$ - | \$ - |
| 8.3 | Primary Transformer/Reactor/PAR Differential Relays: SEL-487E | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.4 | Backup Transformer/Reactor/PAR Differential Relays: GE T60 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.5 | 125VDC Battery System | | LS | 25,000.00 | 22,750.00 | 9,750.00 | \$ - | \$ - | \$ - | \$ - |
| 8.6 | Control house AC Panel | | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ - | \$ - | \$ - | \$ - |
| 8.7 | Control House DC Panel | | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ - | \$ - | \$ - | \$ - |
| 8.8 | Generator | | EA | 130,000.00 | 72,800.00 | 31,200.00 | \$ - | \$ - | \$ - | \$ - |
| TOTAL - CONTROL ENCLOSURE | | | | | | | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|---|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|--------------|
| 6.Elwood 138 kV Substation Upgrades | | | | | | | \$ 3,498,692 | \$ 458,776 | \$ 267,144 | \$ 4,224,612 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 9.1 | Mob / Demob | 1.0 | LS | | 25,407.20 | 10,888.80 | \$ - | \$ 25,407 | \$ 10,889 | \$ 36,296 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 9.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 42,246.12 | | \$ - | \$ 42,246 | \$ - | \$ 42,246 |
| 9.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1 | LS | | 168,984.49 | | \$ - | \$ 168,984 | \$ - | \$ 168,984 |
| 9.4 | Utility PM and Project Oversight | 1 | LS | | 42,246.12 | | \$ - | \$ 42,246 | \$ - | \$ 42,246 |
| 9.5 | Site Accommodation, Facilities, Storage | 1 | LS | 42,246.12 | | | \$ 42,246 | \$ - | \$ - | \$ 42,246 |
| | Engineering | | | | | | | | | |
| 9.6 | Design Engineering | 1.00 | LS | | 337,968.98 | | \$ - | \$ 337,969 | \$ - | \$ 337,969 |
| 9.7 | LiDAR /GPR | 1.00 | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.8 | Geotech | 1.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 2,730 | \$ 1,820 | \$ 4,550 |
| 9.9 | Surveying/Staking | 1.00 | Site | | 29,572.29 | | \$ - | \$ 29,572 | \$ - | \$ 29,572 |
| | Testing & Commissioning | | | | | | | | | |
| 9.10 | Testing & Commissioning of SS and Equipment | 1.00 | LS | | 158,422.96 | | \$ - | \$ 158,423 | \$ - | \$ 158,423 |
| | Permitting and Additional Costs | | | | | | | | | |
| 9.11 | Physical Security | 1.00 | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.12 | Environmental Licensing & Permitting Costs & related legal cost | 1.00 | LS | | 42,246.12 | | \$ - | \$ 42,246 | \$ - | \$ 42,246 |
| 9.13 | Environmental-special studies/investigation | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.14 | Warranties / LOC's | 1.00 | LS | | 12,673.84 | | \$ - | \$ 12,674 | \$ - | \$ 12,674 |
| 9.15 | Laydown Lease | - | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 9.16 | Real Estate (Acquisition) | - | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 9.17 | Legal Fees (Real estate) | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 9.18 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 9.19 | Bonds | 1 | LS | | - | \$ 158,000 | \$ - | \$ - | \$ 158,000 | \$ 158,000 |
| 9.20 | Sales Tax on Materials | 8.80% | LS | 3,498,692.30 | | | \$ 307,885 | \$ - | \$ - | \$ 307,885 |
| 9.21 | Fees for permits, including roadway, railroad, building or other local permits | 1.00 | LS | | 4,224.61 | | \$ - | \$ 4,225 | \$ - | \$ 4,225 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 350,131 | \$ 866,723 | \$ 170,709 | \$ 1,387,563 |

NEXTera Energy- TO41 Core 6

7.Jamaica 138 kV Substation Upgrades

Total: \$ 2,024,724

| NEXTera Energy- TO41 Core 6 | | | | |
|--|-----------------|--------------|--------------|--------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| 7.Jamaica 138 kV Substation Upgrades | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | \$ - | \$ 30,000 | \$ 20,000 | \$ 50,000 |
| 2. SUBSTATION FOUNDATIONS | \$ 8,137 | \$ 9,299 | \$ 5,812 | \$ 23,248 |
| 3. SUBSTATION STRUCTURES | \$ 45,726 | \$ 32,857 | \$ 20,272 | \$ 98,855 |
| 4. MAJOR EQUIPMENT | \$ 385,838 | \$ 168,494 | \$ 68,991 | \$ 623,323 |
| 5. LOW VOLTAGE & CONTROL CABLE | \$ 20,660 | \$ 5,587 | \$ 1,117 | \$ 27,364 |
| 6. CONDUIT & CABLE TRENCH | \$ 6,690 | \$ 6,480 | \$ 3,240 | \$ 16,410 |
| 7. GROUND GRID | \$ - | \$ - | \$ - | \$ - |
| 8. CONTROL ENCLOSURE | \$ 127,969 | \$ 102,375 | \$ 25,594 | \$ 255,937 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 63,313 | \$ 223,938 | \$ 47,502 | \$ 334,752 |
| SUBTOTAL (Costs): | \$ 658,333 | \$ 579,029 | \$ 192,528 | \$ 1,429,890 |
| CONTRACTOR MARK-UP (OH&P) | \$ 118,500 | \$ 104,225 | \$ 34,655 | \$ 257,380 |
| SUBTOTAL: | \$ 776,832 | \$ 683,255 | \$ 227,183 | \$ 1,687,270 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 155,366 | \$ 136,651 | \$ 45,437 | \$ 337,454 |
| TOTAL: | \$ 932,199 | \$ 819,906 | \$ 272,620 | \$ 2,024,724 |

| Description of Work: Add an additional terminal at the existing Jamaica 138kV substation | | | | | | | | | | |
|--|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
| 7.Jamaica 138 kV Substation Upgrades | | | | | | | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | | | | |
| 1.1 | Site Clearing | | ACRE | - | 10,800.00 | 7,200.00 | \$ - | \$ - | \$ - | \$ - |
| 1.2 | Demolition | 1 | LS | - | 30,000.00 | 20,000.00 | \$ - | \$ 30,000 | \$ 20,000 | \$ 50,000 |
| 1.3 | New Access Road - 20' | | SY | 4.85 | 7.20 | 4.80 | \$ - | \$ - | \$ - | \$ - |
| 1.4 | Strip and Dispose Top Soil | 0 | CY | | 24.50 | 10.50 | \$ - | \$ - | \$ - | \$ - |
| 1.5 | Site Grading- Excavation for Substation Pad | 0 | CY | | 9.00 | 6.00 | \$ - | \$ - | \$ - | \$ - |
| 1.6 | Site Grading- Excavation for Substation Pad-Rock excavation-Hauling and disposal | 0 | CY | | 21.00 | 9.00 | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Site Grading- Fill for Substation Pad (site borrow, compacted in place) | 0 | CY | | 2.40 | 1.60 | \$ - | \$ - | \$ - | \$ - |
| 1.8 | Site Grading -Fill for Substation Pad (import, compacted in place) | 0 | CY | 25.00 | 2.40 | 1.60 | \$ - | \$ - | \$ - | \$ - |
| 1.9 | Blasting | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 1.10 | Install substation 8" pad base | 0 | SY | 11.00 | 6.00 | 4.00 | \$ - | \$ - | \$ - | \$ - |
| 1.11 | Site Surfacing - Aggregate 6" Thick | 0 | SY | 16.50 | 4.50 | 3.00 | \$ - | \$ - | \$ - | \$ - |
| 1.12 | 7' Station Fence w/ Barbed Wire & Grounding | | LF | 13.85 | 13.85 | 6.92 | \$ - | \$ - | \$ - | \$ - |
| 1.13 | 20' Slide Gate & Grounding | | EA | 8,100.00 | 3,245.00 | 1,305.00 | \$ - | \$ - | \$ - | \$ - |
| 1.14 | 4' Pedestrian gate | | EA | 2,500.00 | 1,000.00 | 350.00 | \$ - | \$ - | \$ - | \$ - |
| 1.15 | Storm drain-15" HDPE, INFILTRATION TRENCH, INLET and Hydrodynamic Separator | | LS | 446,976.00 | - | - | \$ - | \$ - | \$ - | \$ - |
| 1.16 | Seeding | | SF | 1.50 | 1.50 | 1.00 | \$ - | \$ - | \$ - | \$ - |
| 1.17 | Erosion Control-Silt fence install & remove | | LF | 2.41 | 3.16 | 0.72 | \$ - | \$ - | \$ - | \$ - |
| 1.18 | Temporary fencing | | LF | 7.50 | 5.25 | 2.25 | \$ - | \$ - | \$ - | \$ - |
| 1.19 | Substation entrance with asphalt | | SY | 19.50 | 26.00 | 19.50 | \$ - | \$ - | \$ - | \$ - |
| 1.20 | Concrete curb | 0 | LF | 26.00 | 27.30 | 11.70 | \$ - | \$ - | \$ - | \$ - |
| 1.21 | Retaining Wall | 0 | LF | 156.00 | 117.00 | 117.00 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | \$ - | \$ 30,000 | \$ 20,000 | \$ 50,000 |
| 2. SUBSTATION FOUNDATIONS | | | | | | | | | | |
| 2.1 | 345kV, Lightning mast | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | 345kV, A Frame 70' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | 345kV, Bus support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.4 | 345kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.5 | 345kV, Bus support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.6 | 345kV, GIS air terminal | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | 345kV, GIS support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | 345kV, GIS support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|---|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|------------|
| 2.9 | 345kV, GIS Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.10 | 345kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | 345kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.12 | 345kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.13 | 345/138KV, Power Transformer with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.14 | 345kV, Shunt Reactor with oil containment-150MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.15 | 345kV, Shunt Reactor with oil containment-100MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.16 | 345kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.17 | 345kV, Circuit Breaker (PASS) | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.18 | 345kV, Circuit Breaker (GIS), outdoor rated | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | 345Kv, GIS Enclosure-BLDG with generator pad | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.20 | 345kV, Surge arrester | - | CY | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 2.21 | 138kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.22 | 138kV, Shunt Reactor with oil containment-80MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.23 | 138kV, Circuit Breaker, AIS breaker | 4 | CY | 703.89 | 804.44 | 502.78 | \$ 3,132 | \$ 3,580 | \$ 2,237 | \$ 8,949 |
| 2.24 | 138kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.25 | 138kV, GIS Bus support-1 Ph, low | 2 | CY | 703.89 | 804.44 | 502.78 | \$ 1,647 | \$ 1,882 | \$ 1,176 | \$ 4,706 |
| 2.26 | 138kV, Disconnect Switch | 2 | CY | 703.89 | 804.44 | 502.78 | \$ 1,492 | \$ 1,705 | \$ 1,066 | \$ 4,264 |
| 2.27 | 138kV, Cable sealing end | 1 | CY | 703.89 | 804.44 | 502.78 | \$ 746 | \$ 853 | \$ 533 | \$ 2,132 |
| 2.28 | 138kV, Surge arrester | 2 | CY | 703.89 | 804.44 | 502.78 | \$ 1,119 | \$ 1,279 | \$ 799 | \$ 3,198 |
| 2.29 | 138kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.30 | 138kV, A Frame 50' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Firewall Foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.32 | Precast Firewall for transformer, PARs, reactors | - | SF | 25.00 | 15.00 | 10.00 | \$ - | \$ - | \$ - | \$ - |
| 2.33 | Precast Concrete Piles-12"X80' | - | EA | 18,000.00 | 3,200.00 | 2,800.00 | \$ - | \$ - | \$ - | \$ - |
| 2.34 | Local Control Cabinet foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.35 | 138kV, GIS Enclosure-BLDG & control room | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| TOTAL - 345KV FOUNDATION | | | | | | | \$ 8,137 | \$ 9,299 | \$ 5,812 | \$ 23,248 |
| 3. SUBSTATION STRUCTURES | | | | | | | | | | |
| 3.1 | 345kV, Lightning mast | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.2 | 345kV, A Frame 70' | 0 | EA | 48,100.00 | 28,860.00 | 19,240.00 | \$ - | \$ - | \$ - | \$ - |
| 3.3 | 345kV, Bus support-3 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.4 | 345kV, Bus support-3 Ph, low | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | 345kV, Bus support-1 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | 345kV, GIS air terminal | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | 345kV, GIS support-1 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | 345kV, GIS support-3 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | 345kV, GIS Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | 345kV, Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.11 | 345kV, CCVT | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.12 | 345kV, Disconnect Switch | 0 | EA | 19,240.00 | 11,544.00 | 7,696.00 | \$ - | \$ - | \$ - | \$ - |
| 3.13 | 138kV, Bus support-3 Ph, low | 0 | EA | 4,173.00 | 2,879.76 | 1,919.84 | \$ - | \$ - | \$ - | \$ - |
| 3.14 | 138kV, GIL Bus support-1 Ph, low | 6 | EA | 2,782.00 | 1,919.84 | 1,279.89 | \$ 16,692 | \$ 11,519 | \$ 7,679 | \$ 35,890 |
| 3.15 | 138kV, Disconnect Switch | 2 | EA | 4,896.84 | 4,896.84 | 2,448.42 | \$ 9,794 | \$ 9,794 | \$ 4,897 | \$ 24,484 |
| 3.16 | 138kV, Cable sealing end | 1 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ 4,810 | \$ 2,886 | \$ 1,924 | \$ 9,620 |
| 3.17 | 138kV, Surge arrester | 3 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ 14,430 | \$ 8,658 | \$ 5,772 | \$ 28,860 |
| 3.18 | 138kV, CCVT | 0 | EA | 3,206.67 | 1,924.00 | 1,282.67 | \$ - | \$ - | \$ - | \$ - |
| 3.19 | 138kV, A Frame 50' | 0 | EA | 33,000.00 | 19,800.00 | 13,200.00 | \$ - | \$ - | \$ - | \$ - |
| 3.20 | AL. Bus Tubing, 5" SCH 80 | | LF | 25.00 | 184.94 | 123.29 | \$ - | \$ - | \$ - | \$ - |
| 3.21 | AL. Bus fittings | 0 | LS | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 3.22 | Steel grating and support beams-transformer moat | 0 | LB | 2.73 | 1.17 | 0.50 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SUBSTATION STRUCTURES & GAS-INSULATED CONDUCTOR | | | | | | | \$ 45,726 | \$ 32,857 | \$ 20,272 | \$ 98,855 |
| 4. MAJOR EQUIPMENT | | | | | | | | | | |
| 4.1 | 345kV, GIS air terminal | 0 | EA | | | | | | | |
| 4.2 | 345kV, GIS Cable sealing end | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.3 | 345kV, Cable sealing end | 0 | EA | | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.4 | 345kV, CCVT | 0 | EA | | 15,941.99 | 6,832.28 | \$ - | \$ - | \$ - | \$ - |
| 4.5 | 345kV, Disconnect Switch | 0 | EA | | 7,234.50 | 3,100.50 | \$ - | \$ - | \$ - | \$ - |
| 4.6 | 345/138KV, Power Transformer with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.7 | Transport & Testing- Transformer | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.8 | 345kV, Shunt Reactor with oil containment-150MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.9 | 345kV, Shunt Reactor with oil containment-100MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.10 | Transport & Testing- Shunt Reactor | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.11 | 345kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.12 | 345kV, Gas Insulated Switchgear, BAAH Arrangement | 0 | BKR | | 205,800.00 | 4,200.00 | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|--------------|
| 4.13 | 345kV, Circuit Breaker (PASS) | 0 | EA | | 57,239.00 | 24,531.00 | \$ - | \$ - | \$ - | \$ - |
| 4.14 | 345kV, Circuit Breaker (GIS), outdoor rated | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.15 | 345kV, Circuit Breaker (GIS), outdoor rated-Line surge Arrester (3phase) | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.16 | 345kV, surge Arrester | 0 | EA | | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.17 | 138kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Transport & Testing- Phase Angle Regulating Transformer, 138kV | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Transport & Testing- Transformer | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.20 | 138kV, Shunt Reactor with oil containment-80MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.21 | Transport & Testing- Shunt Reactor | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.22 | 138kV, Gas Insulated Switchgear, BAAH Arrangement | 0 | BKR | | 205,800.00 | 4,200.00 | \$ - | \$ - | \$ - | \$ - |
| 4.23 | 138kV, Circuit Breaker, AIS breaker | 1 | EA | 112,000.00 | 13,559.00 | 5,811.00 | \$ 112,000 | \$ 13,559 | \$ 5,811 | \$ 131,370 |
| 4.24 | 138kV, Disconnect Switch | 2 | EA | 37,700.00 | 11,875.50 | 5,089.50 | \$ 75,400 | \$ 23,751 | \$ 10,179 | \$ 109,330 |
| 4.25 | 138kV, Cable sealing end | 3 | EA | 11,600.00 | 5,460.00 | 2,340.00 | \$ 34,800 | \$ 16,380 | \$ 7,020 | \$ 58,200 |
| 4.26 | 138kV, CCVT | 0 | EA | 3,206.67 | 1,924.00 | 1,282.67 | \$ - | \$ - | \$ - | \$ - |
| 4.27 | 138kV, Surge arrester | 3 | EA | 4,446.00 | 4,200.00 | 1,800.00 | \$ 13,338 | \$ 12,600 | \$ 5,400 | \$ 31,338 |
| 4.28 | Station service transformers- 120/208v-250VA | 0 | EA | | 45,500.00 | 19,500.00 | \$ - | \$ - | \$ - | \$ - |
| 4.29 | 345/138kV Gas-Insulated Bus Conductor | 246 | LF | 550.00 | 275.00 | 82.50 | \$ 135,300 | \$ 67,650 | \$ 20,295 | \$ 223,245 |
| 4.30 | 345/138kV Gas-Insulated Bus Conductor-elbow | 6 | EA | 2,500.00 | 1,250.00 | 375.00 | \$ 15,000 | \$ 7,500 | \$ 2,250 | \$ 24,750 |
| 4.31 | Transport & Testing- GIL | 1 | LS | | 27,054.00 | 18,036.00 | \$ - | \$ 27,054 | \$ 18,036 | \$ 45,090 |
| TOTAL - MAJOR EQUIPMENT | | | | | | | \$ 385,838 | \$ 168,494 | \$ 68,991 | \$ 623,323 |
| 5. LOW VOLTAGE & CONTROL CABLE | | | | | | | | | | |
| 5.1 | Control Cables | 3,900 | LF | 5.30 | 1.43 | 0.29 | \$ 20,660 | \$ 5,587 | \$ 1,117 | \$ 27,364 |
| 5.2 | | | LF | | - | - | \$ - | \$ - | \$ - | \$ - |
| TOTAL - LOW VOLTAGE & CONTROL CABLE | | | | | | | \$ 20,660 | \$ 5,587 | \$ 1,117 | \$ 27,364 |
| 6. CONDUIT & CABLE TRENCH | | | | | | | | | | |
| 6.1 | Conduit, PVC, 6", SCH 40 | | LF | 20.70 | 13.28 | 6.64 | \$ - | \$ - | \$ - | \$ - |
| 6.2 | Conduit, PVC, 4", SCH 40 | 600 | LF | 11.15 | 10.80 | 5.40 | \$ 6,690 | \$ 6,480 | \$ 3,240 | \$ 16,410 |
| 6.3 | Conduit, PVC, 3", SCH 40 | | LF | 8.10 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.4 | Conduit, PVC, 2", SCH 40 | | LF | 3.95 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.5 | Conduit, PVC, 1", SCH 40 | | LF | 1.90 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.6 | Cable Trench | | LF | 266.50 | 53.04 | 13.26 | \$ - | \$ - | \$ - | \$ - |
| 6.7 | | | | | | | | | | |
| 6.8 | 138kV UG- Conduit | | LF | 266.73 | 202.15 | 100.00 | \$ - | \$ - | \$ - | \$ - |
| 6.9 | 138kV UG- Cable | | LF | 145.00 | 87.00 | 58.00 | \$ - | \$ - | \$ - | \$ - |
| 6.10 | 138kV UG- Termination | | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ - | \$ - | \$ - | \$ - |
| 6.11 | 345kV UG- Conduit | | LF | 266.73 | 202.15 | 100.00 | \$ - | \$ - | \$ - | \$ - |
| 6.12 | 345kV UG- Cable | | LF | 167.00 | 100.20 | 66.80 | \$ - | \$ - | \$ - | \$ - |
| 6.13 | 345kV UG- Termination | | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ - | \$ - | \$ - | \$ - |
| 6.14 | | | | | | | | | | |
| 6.15 | | | | | | | \$ - | \$ - | \$ - | \$ - |
| TOTAL - CONDUIT & CABLE TRENCH | | | | | | | \$ 6,690 | \$ 6,480 | \$ 3,240 | \$ 16,410 |
| 7. GROUND GRID | | | | | | | | | | |
| 7.1 | Cable, 4/0 AWG Bare Copper, 7 Strand Ground Conductor | 0 | LF | 2.09 | 3.42 | 1.46 | \$ - | \$ - | \$ - | \$ - |
| 7.2 | Caweld, DSA, 4/0 , T, CROSS | 0 | EA | 165.00 | 75.00 | | \$ - | \$ - | \$ - | \$ - |
| 7.3 | Ground Rod, 3/4" x 15' | 0 | EA | 135.00 | 67.50 | 7.50 | \$ - | \$ - | \$ - | \$ - |
| TOTAL - GROUND GRID | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 8. CONTROL ENCLOSURE | | | | | | | | | | |
| 8.1 | 345kv GIS Bldg | 0 | EA | 2,481,442.00 | 1,737,009.40 | 744,432.60 | \$ - | \$ - | \$ - | \$ - |
| 8.2 | 138kv GIS/Control Bldg | 0 | EA | 1,145,280.92 | 801,696.65 | 343,584.28 | \$ - | \$ - | \$ - | \$ - |
| 8.3 | Primary Line Relays (87L): SEL-411L | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.4 | Backup Line Relays (87L): GE L90 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.5 | Primary Bay Control: SEL-451 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.6 | Backup Bay Control: SEL-451 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.7 | Primary Bus Differential Relays: SEL-487B | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.8 | Backup Bus Differential Relays: GE B90 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.14 | 125VDC Battery System | | LS | 25,000.00 | 22,750.00 | 9,750.00 | \$ - | \$ - | \$ - | \$ - |
| 8.15 | Control house AC Panel | | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ - | \$ - | \$ - | \$ - |
| 8.16 | Control House DC Panel | | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ - | \$ - | \$ - | \$ - |
| 8.17 | Generator | | EA | 130,000.00 | 72,800.00 | 31,200.00 | \$ - | \$ - | \$ - | \$ - |
| TOTAL - CONTROL ENCLOSURE | | | | | | | \$ 127,969 | \$ 102,375 | \$ 25,594 | \$ 255,937 |
| 7.Jamaica 138 kV Substation Upgrades | | | | | | | \$ 595,020 | \$ 355,092 | \$ 145,026 | \$ 1,095,138 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 9.1 | Mob / Demob | 1.0 | LS | | 17,504.13 | 7,501.77 | \$ - | \$ 17,504 | \$ 7,502 | \$ 25,006 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|---|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|------------|
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 9.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 10,951.38 | | \$ - | \$ 10,951 | \$ - | \$ 10,951 |
| 9.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1 | LS | | 43,805.51 | | \$ - | \$ 43,806 | \$ - | \$ 43,806 |
| 9.4 | Utility PM and Project Oversight | 1 | LS | | 10,951.38 | | \$ - | \$ 10,951 | \$ - | \$ 10,951 |
| 9.5 | Site Accommodation, Facilities, Storage | 1 | LS | 10,951.38 | | | \$ 10,951 | \$ - | \$ - | \$ 10,951 |
| | Engineering | | | | | | | | | |
| 9.6 | Design Engineering | 1.00 | LS | | 87,611.01 | | \$ - | \$ 87,611 | \$ - | \$ 87,611 |
| 9.7 | LiDAR /GPR | 1.00 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 9.8 | Geotech | - | EA | | 2,730.00 | 1,820.00 | \$ - | \$ - | \$ - | \$ - |
| 9.9 | Surveying/Staking | 1.00 | Site | | 7,665.96 | | \$ - | \$ 7,666 | \$ - | \$ 7,666 |
| | Testing & Commissioning | | | | | | | | | |
| 9.10 | Testing & Commissioning of SS and Equipment | 1.00 | LS | | 41,067.66 | | \$ - | \$ 41,068 | \$ - | \$ 41,068 |
| | Permitting and Additional Costs | | | | | | | | | |
| 9.11 | Physical Security | 1.00 | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.12 | Environmental Licensing & Permitting Costs & related legal cost | - | LS | | 10,951.38 | | \$ - | \$ - | \$ - | \$ - |
| 9.13 | Environmental-special studies/investigation | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.14 | Warranties / LOC's | 1.00 | LS | | 3,285.41 | | \$ - | \$ 3,285 | \$ - | \$ 3,285 |
| 9.15 | Laydown Lease | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.16 | Real Estate (Acquisition) | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.17 | Legal Fees (Real estate) | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 9.18 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 9.19 | Bonds | 1 | LS | | - | \$ 40,000 | \$ - | \$ - | \$ 40,000 | \$ 40,000 |
| 9.20 | Sales Tax on Materials | 8.80% | LS | 595,019.53 | | | \$ 52,362 | \$ - | \$ - | \$ 52,362 |
| 9.21 | Fees for permits, including roadway, railroad, building or other local permits | 1.00 | LS | | 1,095.14 | | \$ - | \$ 1,095 | \$ - | \$ 1,095 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 63,313 | \$ 223,938 | \$ 47,502 | \$ 334,752 |

NEXTera Energy- TO41 Core 6

8.Newbridge 345/138 kV GIS Substation Upgrades

Total: \$ 89,858,233

| NEXTera Energy- TO41 Core 6 | | | | |
|--|-----------------|---------------|---------------|---------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| 8.Newbridge 345/138 kV GIS Substation Upgrades | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | \$ - | \$ 180,000 | \$ 120,000 | \$ 300,000 |
| 2. SUBSTATION FOUNDATIONS | \$ 2,041,415 | \$ 2,221,489 | \$ 1,393,568 | \$ 5,656,472 |
| 3. SUBSTATION STRUCTURES | \$ 429,813 | \$ 203,612 | \$ 99,602 | \$ 733,027 |
| 4. MAJOR EQUIPTMENT | \$ 18,401,761 | \$ 7,318,980 | \$ 4,860,895 | \$ 30,581,636 |
| 5. LOW VOLTAGE & CONTROL CABLE | \$ 31,785 | \$ 8,595 | \$ 1,719 | \$ 42,099 |
| 6. CONDUIT & CABLE TRENCH | \$ 4,064,400 | \$ 2,260,091 | \$ 1,200,974 | \$ 7,525,466 |
| 7. GROUND GRID | \$ 50,624 | \$ 36,318 | \$ 8,365 | \$ 95,307 |
| 8. CONTROL ENCLOSURE | \$ 4,172,141 | \$ 3,175,330 | \$ 1,245,811 | \$ 8,593,282 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 2,900,864 | \$ 7,105,954 | \$ 1,992,555 | \$ 11,999,373 |
| Turnkey cost (HVDC, GIS) | \$ 10,165,000 | \$ 6,099,000 | \$ 4,066,000 | \$ 20,330,000 |
| Non-Turnkey cost | \$ 21,927,804 | \$ 16,411,369 | \$ 6,857,489 | \$ 45,196,662 |
| SUBTOTAL (Costs): | \$ 32,092,804 | \$ 22,510,369 | \$ 10,923,489 | \$ 65,526,662 |
| CONTRACTOR MARK-UP (OH&P) | \$ 4,556,905 | \$ 3,319,986 | \$ 1,478,308 | \$ 9,355,199 |
| SUBTOTAL: | \$ 36,649,708 | \$ 25,830,355 | \$ 12,401,797 | \$ 74,881,861 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 7,329,942 | \$ 5,166,071 | \$ 2,480,359 | \$ 14,976,372 |
| TOTAL: | \$ 43,979,650 | \$ 30,996,426 | \$ 14,882,157 | \$ 89,858,233 |

| Description of Work: Remove the northern bay at the existing Newbridge Road 138kV station for the construction of the new 345/138kV GIS. | | | | | | | | | | |
|--|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
| 8.Newbridge 345/138 kV GIS Substation Upgrades | | | | | | | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | | | | |
| 1.1 | Site Clearing | | ACRE | - | 10,800.00 | 7,200.00 | \$ - | \$ - | \$ - | \$ - |
| 1.2 | Demolition | 1 | LS | - | 180,000.00 | 120,000.00 | \$ - | \$ 180,000 | \$ 120,000 | \$ 300,000 |
| 1.3 | New Access Road - 20' | | SY | 4.85 | 7.20 | 4.80 | \$ - | \$ - | \$ - | \$ - |
| 1.4 | Strip and Dispose Top Soil | 0 | CY | | 24.50 | 10.50 | \$ - | \$ - | \$ - | \$ - |
| 1.5 | Site Grading- Excavation for Substation Pad | 0 | CY | | 9.00 | 6.00 | \$ - | \$ - | \$ - | \$ - |
| 1.6 | Site Grading- Excavation for Substation Pad-Rock excavation-Hauling and disposal | 0 | CY | | 21.00 | 9.00 | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Site Grading- Fill for Substation Pad (site borrow, compacted in place) | 0 | CY | | 2.40 | 1.60 | \$ - | \$ - | \$ - | \$ - |
| 1.8 | Site Grading -Fill for Substation Pad (import, compacted in place) | 0 | CY | 25.00 | 2.40 | 1.60 | \$ - | \$ - | \$ - | \$ - |
| 1.9 | Blasting | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 1.10 | Install substation 8" pad base | 0 | SY | 11.00 | 6.00 | 4.00 | \$ - | \$ - | \$ - | \$ - |
| 1.11 | Site Surfacing - Aggregate 6" Thick | 0 | SY | 16.50 | 4.50 | 3.00 | \$ - | \$ - | \$ - | \$ - |
| 1.12 | 7' Station Fence w/ Barbed Wire & Grounding | | LF | 13.85 | 13.85 | 6.92 | \$ - | \$ - | \$ - | \$ - |
| 1.13 | 20' Slide Gate & Grounding | | EA | 8,100.00 | 3,245.00 | 1,305.00 | \$ - | \$ - | \$ - | \$ - |
| 1.14 | 4' Pedestrian gate | | EA | 2,500.00 | 1,000.00 | 350.00 | \$ - | \$ - | \$ - | \$ - |
| 1.15 | Storm drain-15" HDPE, INFILTRATION TRENCH, INLET and Hydrodynamic Separator | | LS | 446,976.00 | - | - | \$ - | \$ - | \$ - | \$ - |
| 1.16 | Seeding | | SF | 1.50 | 1.50 | 1.00 | \$ - | \$ - | \$ - | \$ - |
| 1.17 | Erosion Control-Silt fence install & remove | | LF | 2.41 | 3.16 | 0.72 | \$ - | \$ - | \$ - | \$ - |
| 1.18 | Temporary fencing | | LF | 7.50 | 5.25 | 2.25 | \$ - | \$ - | \$ - | \$ - |
| 1.19 | Substation entrance with asphalt | | SY | 19.50 | 26.00 | 19.50 | \$ - | \$ - | \$ - | \$ - |
| 1.20 | Concrete curb | 0 | LF | 26.00 | 27.30 | 11.70 | \$ - | \$ - | \$ - | \$ - |
| 1.21 | Retaining Wall | 0 | LF | 156.00 | 117.00 | 117.00 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|---|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|--------------|
| TOTAL - SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | \$ - | \$ 180,000 | \$ 120,000 | \$ 300,000 |
| 2. SUBSTATION FOUNDATIONS | | | | | | | | | | |
| 2.1 | 345kV, Lightning mast | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | 345kV, A Frame 70' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | 345kV, Bus support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.4 | 345kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.5 | 345kV, Bus support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.6 | 345kV, GIS air terminal | 40 | CY | 703.89 | 804.44 | 502.78 | \$ 27,874 | \$ 31,856 | \$ 19,910 | \$ 79,640 |
| 2.7 | 345kV, GIS support-1 Ph | 12 | CY | 703.89 | 804.44 | 502.78 | \$ 8,573 | \$ 9,798 | \$ 6,124 | \$ 24,495 |
| 2.8 | 345kV, GIS support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.9 | 345kV, GIS Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.10 | 345kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | 345kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.12 | 345kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.13 | 345/138KV, Power Transformer with oil containment | 328 | CY | 703.89 | 804.44 | 502.78 | \$ 230,874 | \$ 263,856 | \$ 164,910 | \$ 659,641 |
| 2.14 | 345kV, Shunt Reactor with oil containment-25MVAR | 200 | CY | 703.89 | 804.44 | 502.78 | \$ 140,777 | \$ 160,888 | \$ 100,555 | \$ 402,220 |
| 2.15 | 345kV, Shunt Reactor with oil containment-100MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.16 | 345kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.17 | 345kV, Circuit Breaker (PASS) | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.18 | 345kV, Circuit Breaker (GIS), outdoor rated | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | 345Kv, GIS Enclosure-BLDG with generator pad | 1,482 | CY | 703.89 | 804.44 | 502.78 | \$ 1,043,158 | \$ 1,192,180 | \$ 745,113 | \$ 2,980,450 |
| 2.20 | 345kV, Surge arrester | 16 | CY | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 2.21 | 138kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.22 | 138kV, Shunt Reactor with oil containment-80MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.23 | 138kV, Circuit Breaker, AIS breaker | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.24 | 138kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.25 | 138kV, Bus support-1 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.26 | 138kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.27 | 138kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.28 | 138kV, Surge arrester | - | CY | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 2.29 | 138kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.30 | 138kV, A Frame 50' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Firewall Foundation | 546 | CY | 703.89 | 804.44 | 502.78 | \$ 384,659 | \$ 439,610 | \$ 274,756 | \$ 1,099,026 |
| 2.32 | Precast Firewall for transformer, PARs, reactors | 8,220 | SF | 25.00 | 15.00 | 10.00 | \$ 205,500 | \$ 123,300 | \$ 82,200 | \$ 411,000 |
| 2.33 | Precast Concrete Piles-12"X80' | - | EA | 18,000.00 | 3,200.00 | 2,800.00 | \$ - | \$ - | \$ - | \$ - |
| 2.34 | Local Control Cabinet foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.35 | 138kV, GIS Enclosure-BLDG & control room | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| TOTAL - 345KV FOUNDATION | | | | | | | \$ 2,041,415 | \$ 2,221,489 | \$ 1,393,568 | \$ 5,656,472 |
| 3. SUBSTATION | #REF! | | | | | | | | | |
| 3.1 | 345kV, Lightning mast | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.2 | 345kV, A Frame 70' | 0 | EA | 48,100.00 | 28,860.00 | 19,240.00 | \$ - | \$ - | \$ - | \$ - |
| 3.3 | 345kV, Bus support-3 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.4 | 345kV, Bus support-3 Ph, low | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | 345kV, Bus support-1 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | 345kV, GIS air terminal | 6 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ 50,076 | \$ 34,552 | \$ 23,035 | \$ 107,663 |
| 3.7 | 345kV, GIS support-1 Ph | 3 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ 25,038 | \$ 17,276 | \$ 11,517 | \$ 53,832 |
| 3.8 | 345kV, GIS support-3 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | 345kV, GIS Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | 345kV, Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.11 | 345kV, CCVT | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.12 | 345kV, Disconnect Switch | 0 | EA | 19,240.00 | 11,544.00 | 7,696.00 | \$ - | \$ - | \$ - | \$ - |
| 3.13 | 138kV, Bus support-3 Ph, low | 0 | EA | 4,173.00 | 2,879.76 | 1,919.84 | \$ - | \$ - | \$ - | \$ - |
| 3.14 | 138kV, Bus support-1 Ph, low | 0 | EA | 2,782.00 | 1,919.84 | 1,279.89 | \$ - | \$ - | \$ - | \$ - |
| 3.15 | 138kV, Disconnect Switch | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.16 | 138kV, Cable sealing end | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.18 | 138kV, Surge arrester | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.17 | 138kV, CCVT | 0 | EA | 3,206.67 | 1,924.00 | 1,282.67 | \$ - | \$ - | \$ - | \$ - |
| 3.18 | 138kV, A Frame 50' | 0 | EA | 33,000.00 | 19,800.00 | 13,200.00 | \$ - | \$ - | \$ - | \$ - |
| 3.21 | AL. Bus Tubing, 5" SCH 80 | 0 | LF | 25.00 | 184.94 | 123.29 | \$ - | \$ - | \$ - | \$ - |
| 3.22 | AL. Bus fittings | 0 | LS | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 3.23 | Steel grating and support beams-transformer moat | 129,840 | LB | 2.73 | 1.17 | 0.50 | \$ 354,699 | \$ 151,783 | \$ 65,050 | \$ 571,532 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SUBSTATION STRUCTURES & GAS-INSULATED CONDUCTOR | | | | | | | \$ 429,813 | \$ 203,612 | \$ 99,602 | \$ 733,027 |
| 4. MAJOR EQUIPMENT | | | | | | | | | | |
| 4.1 | 345kV, GIS air terminal | 6 | EA | | | | | | | |
| 4.2 | 345kV, GIS Cable sealing end | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|-------------------------------------|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 4.3 | 345kV, Cable sealing end | 0 | EA | | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.4 | 345kV, CCVT | 0 | EA | | 15,941.99 | 6,832.28 | \$ - | \$ - | \$ - | \$ - |
| 4.5 | 345kV, Disconnect Switch | 0 | EA | 57,720.00 | 34,632.00 | 23,088.00 | \$ - | \$ - | \$ - | \$ - |
| 4.6 | 345/138KV, Power Transformer with oil containment | 1 | EA | 4,420,000.00 | 3,520.00 | 880.00 | \$ 4,420,000 | \$ 3,520 | \$ 880 | \$ 4,424,400 |
| 4.7 | Transport & Testing- Transformer | 1 | EA | | 717,400.00 | 474,600.00 | \$ - | \$ 717,400 | \$ 474,600 | \$ 1,192,000 |
| 4.8 | 345kV, Shunt Reactor with oil containment-25MVAR | 2 | EA | 1,900,130.50 | 3,520.00 | 880.00 | \$ 3,800,261 | \$ 7,040 | \$ 1,760 | \$ 3,809,061 |
| 4.9 | 345kV, Shunt Reactor with oil containment-100MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.10 | Transport & Testing- Shunt Reactor | 2 | EA | | 240,400.00 | 156,600.00 | \$ - | \$ 480,800 | \$ 313,200 | \$ 794,000 |
| 4.11 | 345kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.12 | 345kV, Gas Insulated Switchgear, BAAH Arrangement | 12 | BKR | 847,083.33 | 508,250.00 | 338,833.33 | \$ 10,165,000 | \$ 6,099,000 | \$ 4,066,000 | \$ 20,330,000 |
| 4.13 | 345kV, Circuit Breaker (PASS) | 0 | EA | | 57,239.00 | 24,531.00 | \$ - | \$ - | \$ - | \$ - |
| 4.14 | 345kV, Circuit Breaker (GIS), outdoor rated | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.15 | 345kV, Circuit Breaker (GIS), outdoor rated-Line surge Arrester (3phase) | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.16 | 345kV, surge Arrester | 0 | EA | | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.17 | 138kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Transport & Testing- Phase Angle Regulating Transformer, 138kV | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Transport & Testing- Transformer | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.20 | 138kV, Shunt Reactor with oil containment-80MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.21 | Transport & Testing- Shunt Reactor | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.22 | 138kV, Gas Insulated Switchgear, BAAH Arrangement | 0 | BKR | | 205,800.00 | 4,200.00 | \$ - | \$ - | \$ - | \$ - |
| 4.23 | 138kV, Circuit Breaker, AIS breaker | 0 | EA | | 13,559.00 | 5,811.00 | \$ - | \$ - | \$ - | \$ - |
| 4.24 | 138kV, Disconnect Switch | 0 | EA | 37,700.00 | 11,875.50 | 5,089.50 | \$ - | \$ - | \$ - | \$ - |
| 4.25 | 138kV, Cable sealing end | 0 | EA | 11,600.00 | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.26 | 138kV, CCVT | 0 | EA | | 7,970.08 | 3,415.75 | \$ - | \$ - | \$ - | \$ - |
| 4.27 | 138kV, Surge arrester | 0 | EA | | 4,200.00 | 1,800.00 | \$ - | \$ - | \$ - | \$ - |
| 4.28 | Station service transformers- 120/208v-250VA | 0 | EA | | 45,500.00 | 19,500.00 | \$ - | \$ - | \$ - | \$ - |
| 4.29 | 345kV Gas-Insulated Bus Conductor | 30 | LF | 550.00 | 275.00 | 82.50 | \$ 16,500 | \$ 8,250 | \$ 2,475 | \$ 27,225.00 |
| 4.30 | 345kV Gas-Insulated Bus Conductor-elbow | 0 | EA | 2,500.00 | 1,250.00 | 375.00 | \$ - | \$ - | \$ - | \$ - |
| 4.31 | Transport & Testing- GIL | 1 | LS | | 2,970.00 | 1,980.00 | \$ - | \$ 2,970 | \$ 1,980 | \$ 4,950.00 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - MAJOR EQUIPMENT | | | | | | | \$ 18,401,761 | \$ 7,318,980 | \$ 4,860,895 | \$ 30,581,636 |
| 5. LOW VOLTAGE & CONTROL CABLE | | | | | | | | | | |
| 5.1 | Control Cables | 6,000 | LF | 5.30 | 1.43 | 0.29 | \$ 31,785 | \$ 8,595 | \$ 1,719 | \$ 42,099 |
| 5.2 | | | LF | | - | - | \$ - | \$ - | \$ - | \$ - |
| TOTAL - LOW VOLTAGE & CONTROL CABLE | | | | | | | \$ 31,785 | \$ 8,595 | \$ 1,719 | \$ 42,099 |
| 6. CONDUIT & CABLE TRENCH | | | | | | | | | | |
| 6.1 | Conduit, PVC, 6", SCH 40 | | LF | 20.70 | 13.28 | 6.64 | \$ - | \$ - | \$ - | \$ - |
| 6.2 | Conduit, PVC, 4", SCH 40 | 1,200 | LF | 11.15 | 10.80 | 5.40 | \$ 13,380 | \$ 12,960 | \$ 6,480 | \$ 32,820 |
| 6.3 | Conduit, PVC, 3", SCH 40 | | LF | 8.10 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.4 | Conduit, PVC, 2", SCH 40 | | LF | 3.95 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.5 | Conduit, PVC, 1", SCH 40 | | LF | 1.90 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.6 | Cable Trench | | LF | 266.50 | 53.04 | 13.26 | \$ - | \$ - | \$ - | \$ - |
| 6.7 | | | | | | | | | | |
| 6.8 | 138kV UG- Conduit | 1,287 | LF | 266.73 | 202.15 | 100.00 | \$ 343,363 | \$ 260,223 | \$ 128,736 | \$ 732,322 |
| 6.9 | 138kV UG- Cable | 3,862 | LF | 145.00 | 87.00 | 58.00 | \$ 559,976 | \$ 335,985 | \$ 223,990 | \$ 1,119,951 |
| 6.10 | 138kV UG- Termination | 24 | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ 667,320 | \$ 236,316 | \$ 67,519 | \$ 971,154 |
| 6.11 | 345kV UG- Conduit | 2,267 | LF | 266.73 | 202.15 | 100.00 | \$ 604,666 | \$ 458,256 | \$ 226,706 | \$ 1,289,628 |
| 6.12 | 345kV UG- Cable | 6,801 | LF | 167.00 | 100.20 | 66.80 | \$ 1,135,742 | \$ 681,445 | \$ 454,297 | \$ 2,271,484 |
| 6.13 | 345kV UG- Termination | 24 | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ 667,320 | \$ 236,316 | \$ 67,519 | \$ 971,154 |
| 6.14 | Fiber Optic Cable | 3,554 | LF | 7.40 | 3.33 | 2.22 | \$ 26,291 | \$ 11,838 | \$ 7,892 | \$ 46,020 |
| 6.15 | Ground Continuity Conductor | 3,554 | LF | 13.04 | 7.53 | 5.02 | \$ 46,344 | \$ 26,753 | \$ 17,835 | \$ 90,932 |
| TOTAL - CONDUIT & CABLE TRENCH | | | | | | | \$ 4,064,400 | \$ 2,260,091 | \$ 1,200,974 | \$ 7,525,466 |
| 7. GROUND GRID | | | | | | | | | | |
| 7.1 | Cable, 4/0 AWG Bare Copper, 7 Strand Ground Conductor | 5,100 | LF | 2.09 | 3.42 | 1.46 | \$ 10,664 | \$ 17,418 | \$ 7,465 | \$ 35,547 |
| 7.2 | Caweld, DSA, 4/0 , T, CROSS | 144 | EA | 165.00 | 75.00 | | \$ 23,760 | \$ 10,800 | \$ - | \$ 34,560 |
| 7.3 | Ground Rod, 3/4" x 15' | 120 | EA | 135.00 | 67.50 | 7.50 | \$ 16,200 | \$ 8,100 | \$ 900 | \$ 25,200 |
| TOTAL - GROUND GRID | | | | | | | \$ 50,624 | \$ 36,318 | \$ 8,365 | \$ 95,307 |
| 8. CONTROL ENCLOSURE | | | | | | | | | | |
| 8.1 | 345kv GIS Bldg | 1 | EA | 2,926,829.03 | 2,048,780.32 | 878,048.71 | \$ 2,926,829 | \$ 2,048,780 | \$ 878,049 | \$ 5,853,658 |
| 8.2 | 138kv GIS/Control Bldg | 0 | EA | 1,145,280.92 | 801,696.65 | 343,584.28 | \$ - | \$ - | \$ - | \$ - |
| 8.3 | Primary Line Relays (87L): SEL-411L | 2 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |
| 8.4 | Backup Line Relays (87L): GE L90 | 2 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |
| 8.5 | Primary Bay Control: SEL-451 | 4 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 85,312 | \$ 68,250 | \$ 17,062 | \$ 170,625 |
| 8.6 | Backup Bay Control: SEL-451 | 4 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 85,312 | \$ 68,250 | \$ 17,062 | \$ 170,625 |
| 8.7 | Primary Transformer/Reactor/PAR Differential Relays: SEL-487E | 3 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 63,984 | \$ 51,187 | \$ 12,797 | \$ 127,969 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 8.8 | Backup Transformer/Reactor/PAR Differential Relays: GE T60 | 3 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 63,984 | \$ 51,187 | \$ 12,797 | \$ 127,969 |
| 8.9 | Primary Bus Differential Relays: SEL-487B | 4 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 85,312 | \$ 68,250 | \$ 17,062 | \$ 170,625 |
| 8.10 | Backup Bus Differential Relays: GE B90 | 4 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 85,312 | \$ 68,250 | \$ 17,062 | \$ 170,625 |
| 8.11 | RTU Panel A: SEL-2240 Axion, SEL-2730M ENET SW., SEL-2407 GPS, Modem, SEL-2523 Ann | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.12 | RTU Panel B: SEL-2730M Ethernet Switch, SEL-2407 GPS Clock, SEL-2523 Annunciator | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.13 | HMI Panel | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.14 | Primary Line Relays (87L): SEL-411L | 4 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 85,312 | \$ 68,250 | \$ 17,062 | \$ 170,625 |
| 8.15 | Backup Line Relays (87L): GE L90 | 4 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 85,312 | \$ 68,250 | \$ 17,062 | \$ 170,625 |
| 8.16 | Primary Transformer/Reactor/PAR Differential Relays: SEL-487E | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.17 | Backup Transformer/Reactor/PAR Differential Relays: GE T60 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.18 | 125VDC Battery System | 2 | LS | 25,000.00 | 22,750.00 | 9,750.00 | \$ 50,000 | \$ 45,500 | \$ 19,500 | \$ 115,000 |
| 8.19 | Control house AC Panel | 2 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ 130,000 | \$ 182,000 | \$ 78,000 | \$ 390,000 |
| 8.20 | Control House DC Panel | 2 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ 130,000 | \$ 182,000 | \$ 78,000 | \$ 390,000 |
| 8.21 | Generator | 1 | EA | 130,000.00 | 72,800.00 | 31,200.00 | \$ 130,000 | \$ 72,800 | \$ 31,200 | \$ 234,000 |
| TOTAL - CONTROL ENCLOSURE | | | | | | | \$ 4,172,141 | \$ 3,175,330 | \$ 1,245,811 | \$ 8,593,282 |
| 8.Newbridge 345/138 kV GIS Substation Upgrades | | | | | | | \$ 29,191,940 | \$ 15,404,415 | \$ 8,930,934 | \$ 53,527,289 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 9.1 | Mob / Demob | 1.0 | LS | | 495,962.21 | 212,555.23 | \$ - | \$ 495,962 | \$ 212,555 | \$ 708,517 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 9.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 331,972.89 | | \$ - | \$ 331,973 | \$ - | \$ 331,973 |
| 9.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1 | LS | | 1,327,891.55 | | \$ - | \$ 1,327,892 | \$ - | \$ 1,327,892 |
| 9.4 | Utility PM and Project Oversight | 1 | LS | | 331,972.89 | | \$ - | \$ 331,973 | \$ - | \$ 331,973 |
| 9.5 | Site Accommodation, Facilities, Storage | 1 | LS | 331,972.89 | | | \$ 331,973 | \$ - | \$ - | \$ 331,973 |
| | Engineering | | | | | | | | | |
| 9.6 | Design Engineering | 1.00 | LS | | 2,655,783.10 | | \$ - | \$ 2,655,783 | \$ - | \$ 2,655,783 |
| 9.7 | LiDAR /GPR | 1.00 | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.8 | Geotech | - | EA | | 2,730.00 | 1,820.00 | \$ - | \$ - | \$ - | \$ - |
| 9.9 | Surveying/Staking | 1.00 | Site | | 232,381.02 | | \$ - | \$ 232,381 | \$ - | \$ 232,381 |
| | Testing & Commissioning | | | | | | | | | |
| 9.10 | Testing & Commissioning of SS and Equipment | 1.00 | LS | | 1,244,898.33 | | \$ - | \$ 1,244,898 | \$ - | \$ 1,244,898 |
| | Permitting and Additional Costs | | | | | | | | | |
| 9.11 | Physical Security | - | LS | | 62,196.12 | | \$ - | \$ - | \$ - | \$ - |
| 9.12 | Environmental Licensing & Permitting Costs & related legal cost | 1.00 | LS | | 331,972.89 | | \$ - | \$ 331,973 | \$ - | \$ 331,973 |
| 9.13 | Environmental-special studies/investigation | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.14 | Warranties / LOC's | 1.00 | LS | | 99,591.87 | | \$ - | \$ 99,592 | \$ - | \$ 99,592 |
| 9.15 | Laydown Lease | - | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 9.16 | Real Estate (Acquisition) | - | LS | | | 649,844.00 | \$ - | \$ - | \$ - | \$ - |
| 9.17 | Legal Fees (Real estate) | - | LS | | - | 19,495.32 | \$ - | \$ - | \$ - | \$ - |
| 9.18 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 9.19 | Bonds | 1 | LS | | - | \$ 1,780,000 | \$ - | \$ - | \$ 1,780,000 | \$ 1,780,000 |
| 9.20 | Sales Tax on Materials | 8.80% | LS | 29,191,939.93 | | | \$ 2,568,891 | \$ - | \$ - | \$ 2,568,891 |
| 9.21 | Fees for permits, including roadway, railroad, building or other local permits | 1.00 | LS | | 53,527.29 | | \$ - | \$ 53,527 | \$ - | \$ 53,527 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 2,900,864 | \$ 7,105,954 | \$ 1,992,555 | \$ 11,999,373 |

NEXTera Energy- TO41 Core 6

9.Rainey 345kV GIS Substation Upgrades

Total: \$ 45,946,157

| NEXTera Energy- TO41 Core 6 | | | | |
|--|------------------------|------------------------|------------------------|-----------------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| 9.Rainey 345kV GIS Substation Upgrades | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | \$ 311,324 | \$ 248,835 | \$ 141,711 | \$ 701,870 |
| 2. SUBSTATION FOUNDATIONS | \$ 802,429 | \$ 917,062 | \$ 573,164 | \$ 2,292,654 |
| 3. SUBSTATION STRUCTURES | \$ - | \$ - | \$ - | \$ - |
| 4. MAJOR EQUIPTMENT | \$ 5,130,000 | \$ 3,078,000 | \$ 2,052,000 | \$ 10,260,000 |
| 5. LOW VOLTAGE & CONTROL CABLE | \$ - | \$ - | \$ - | \$ - |
| 6. CONDUIT & CABLE TRENCH | \$ 3,027,905 | \$ 1,824,211 | \$ 1,037,159 | \$ 5,889,274 |
| 7. GROUND GRID | \$ 41,114 | \$ 27,100 | \$ 5,201 | \$ 73,415 |
| 8. CONTROL ENCLOSURE | \$ 3,173,654 | \$ 2,446,529 | \$ 976,124 | \$ 6,596,307 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 1,254,341 | \$ 3,460,378 | \$ 2,963,002 | \$ 7,677,720 |
| Turnkey cost (HVDC, GIS) | \$ 5,130,000 | \$ 3,078,000 | \$ 2,052,000 | \$ 10,260,000 |
| Non-Turnkey cost | \$ 8,610,766 | \$ 8,924,115 | \$ 5,696,359 | \$ 23,231,241 |
| SUBTOTAL (Costs): | \$ 13,740,766 | \$ 12,002,115 | \$ 7,748,359 | \$ 33,491,241 |
| CONTRACTOR MARK-UP (OH&P) | \$ 1,857,738 | \$ 1,791,021 | \$ 1,148,465 | \$ 4,797,223 |
| SUBTOTAL: | \$ 15,598,504 | \$ 13,793,136 | \$ 8,896,824 | \$ 38,288,464 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 3,119,701 | \$ 2,758,627 | \$ 1,779,365 | \$ 7,657,693 |
| TOTAL: | \$ 18,718,205 | \$ 16,551,763 | \$ 10,676,189 | \$ 45,946,157 |

Description of Work: Construct a new Rainey 345 kV GIS substation and connect back to the existing Rainey 345kV, further interconnecting the Rainey East and West ring buses.

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|--------------|
| 9.Rainey 345kV GIS Substation Upgrades | | | | | | | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | | | | |
| 1.1 | Site Clearing | 0.8 | ACRE | - | 10,800.00 | 7,200.00 | \$ - | \$ 8,856 | \$ 5,904 | \$ 14,760 |
| 1.2 | Demolition | 0 | LS | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 1.3 | New Access Road - 20' | 989 | SY | 4.85 | 7.20 | 4.80 | \$ 4,796 | \$ 7,120 | \$ 4,747 | \$ 16,663 |
| 1.4 | Strip and Dispose Top Soil | 1,323 | CY | | 24.50 | 10.50 | \$ - | \$ 32,412 | \$ 13,891 | \$ 46,303 |
| 1.5 | Site Grading- Excavation for Substation Pad | 3,969 | CY | | 9.00 | 6.00 | \$ - | \$ 35,719 | \$ 23,813 | \$ 59,532 |
| 1.6 | Site Grading- Excavation for Substation Pad-Rock excavation-Hauling and disposal | 2,143 | CY | | 21.00 | 9.00 | \$ - | \$ 45,006.19 | \$ 19,288.37 | \$ 64,294.56 |
| 1.7 | Site Grading- Fill for Substation Pad (site borrow, compacted in place) | 3,215 | CY | | 2.40 | 1.60 | \$ - | \$ 7,715 | \$ 5,144 | \$ 12,859 |
| 1.8 | Site Grading -Fill for Substation Pad (import, compacted in place) | 2,143 | CY | 25.00 | 2.40 | 1.60 | \$ 53,579 | \$ 5,144 | \$ 3,429 | \$ 62,151 |
| 1.9 | Blasting | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 1.10 | Install substation 8" pad base | 3,969 | SY | 11.00 | 6.00 | 4.00 | \$ 43,657 | \$ 23,813 | \$ 15,875 | \$ 83,345 |
| 1.11 | Site Surfacing - Aggregate 6" Thick | 3,969 | SY | 16.50 | 4.50 | 3.00 | \$ 65,485 | \$ 17,860 | \$ 11,906 | \$ 95,251 |
| 1.12 | 7' Station Fence w/ Barbed Wire & Grounding | 726 | LF | 13.85 | 13.85 | 6.92 | \$ 10,054 | \$ 10,054 | \$ 5,027 | \$ 25,134 |
| 1.13 | 20' Slide Gate & Grounding | 1 | EA | 8,100.00 | 3,245.00 | 1,305.00 | \$ 8,100 | \$ 3,245 | \$ 1,305 | \$ 12,650 |
| 1.14 | 4' Pedestrian gate | 1 | EA | 2,500.00 | 1,000.00 | 350.00 | \$ 2,500 | \$ 1,000 | \$ 350 | \$ 3,850 |
| 1.15 | Storm drain-15" HDPE, INFILTRATION TRENCH, INLET and Hydrodynamic Separator | 1 | LS | 109,761.60 | 38,400.00 | 25,368.00 | \$ 109,762 | \$ 38,400 | \$ 25,368 | \$ 173,530 |
| 1.16 | Seeding | 3,000 | SF | 1.50 | 1.50 | 1.00 | \$ 4,500 | \$ 4,500 | \$ 3,000 | \$ 12,000 |
| 1.17 | Erosion Control-Silt fence install & remove | 1,200 | LF | 2.41 | 3.16 | 0.72 | \$ 2,892 | \$ 3,792 | \$ 864 | \$ 7,548 |
| 1.18 | Temporary fencing | 800 | LF | 7.50 | 5.25 | 2.25 | \$ 6,000 | \$ 4,200 | \$ 1,800 | \$ 12,000 |
| 1.19 | Substation entrance with asphalt | 0 | SY | 19.50 | 26.00 | 19.50 | \$ - | \$ - | \$ - | \$ - |
| 1.20 | Concrete curb | 0 | LF | 26.00 | 27.30 | 11.70 | \$ - | \$ - | \$ - | \$ - |
| 1.21 | Retaining Wall | 0 | LF | 156.00 | 117.00 | 117.00 | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|---|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|--------------|
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | \$ 311,324 | \$ 248,835 | \$ 141,711 | \$ 701,870 |
| 2. SUBSTATION FOUNDATIONS | | | | | | | | | | |
| 2.1 | 345kV, Lightning mast | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | 345kV, A Frame 70' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | 345kV, Bus support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.4 | 345kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.5 | 345kV, Bus support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.6 | 345kV, GIS air terminal | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | 345kV, GIS support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | 345kV, GIS support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.9 | 345kV, GIS Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.10 | 345kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | 345kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.12 | 345kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.13 | 345/138KV, Power Transformer with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.14 | 345kV, Shunt Reactor with oil containment-150MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.15 | 345kV, Shunt Reactor with oil containment-100MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.16 | 345kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.17 | 345kV, Circuit Breaker (PASS) | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.18 | 345kV, Circuit Breaker (GIS), outdoor rated | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | 345Kv, GIS Enclosure-BLDG with generator pad | 1,140 | CY | 703.89 | 804.44 | 502.78 | \$ 802,429 | \$ 917,062 | \$ 573,164 | \$ 2,292,654 |
| 2.20 | 345kV, Surge arrester | - | CY | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 2.21 | 138kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.22 | 138kV, Shunt Reactor with oil containment-80MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.23 | 138kV, Circuit Breaker, AIS breaker | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.24 | 138kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.25 | 138kV, Bus support-1 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.26 | 138kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.27 | 138kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.28 | 138kV, Surge arrester | - | CY | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 2.29 | 138kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.30 | 138kV, A Frame 50' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Firewall Foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.32 | Precast Firewall for transformer, PARs, reactors | | SF | 25.00 | 15.00 | 10.00 | \$ - | \$ - | \$ - | \$ - |
| 2.33 | Precast Concrete Piles-12"X80' | - | EA | 18,000.00 | 3,200.00 | 2,800.00 | \$ - | \$ - | \$ - | \$ - |
| 2.34 | Local Control Cabinet foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.35 | 138kV, GIS Enclosure-BLDG & control room | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| TOTAL - 345KV FOUNDATION | | | | | | | \$ 802,429 | \$ 917,062 | \$ 573,164 | \$ 2,292,654 |
| 3. SUBSTATION STRUCTURES | | | | | | | | | | |
| 3.1 | 345kV, Lightning mast | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.2 | 345kV, A Frame 70' | 0 | EA | 48,100.00 | 28,860.00 | 19,240.00 | \$ - | \$ - | \$ - | \$ - |
| 3.3 | 345kV, Bus support-3 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.4 | 345kV, Bus support-3 Ph, low | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | 345kV, Bus support-1 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | 345kV, GIS air terminal | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | 345kV, GIS support-1 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | 345kV, GIS support-3 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | 345kV, GIS Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | 345kV, Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.11 | 345kV, CCVT | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.12 | 345kV, Disconnect Switch | 0 | EA | 19,240.00 | 11,544.00 | 7,696.00 | \$ - | \$ - | \$ - | \$ - |
| 3.13 | 138kV, Bus support-3 Ph, low | 0 | EA | 4,173.00 | 2,879.76 | 1,919.84 | \$ - | \$ - | \$ - | \$ - |
| 3.14 | 138kV, Bus support-1 Ph, low | 0 | EA | 2,782.00 | 1,919.84 | 1,279.89 | \$ - | \$ - | \$ - | \$ - |
| 3.15 | 138kV, Disconnect Switch | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.16 | 138kV, Cable sealing end | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.18 | 138kV, Surge arrester | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.17 | 138kV, CCVT | 0 | EA | 3,206.67 | 1,924.00 | 1,282.67 | \$ - | \$ - | \$ - | \$ - |
| 3.18 | 138kV, A Frame 50' | 0 | EA | 33,000.00 | 19,800.00 | 13,200.00 | \$ - | \$ - | \$ - | \$ - |
| 3.19 | 345kV Gas-Insulated Bus Conductor | 0 | LF | 550.00 | 275.00 | 82.50 | \$ - | \$ - | \$ - | \$ - |
| 3.20 | 345kV Gas-Insulated Bus Conductor-elbow | 0 | EA | 2,500.00 | 1,250.00 | 375.00 | \$ - | \$ - | \$ - | \$ - |
| 3.21 | AL. Bus Tubing, 5" SCH 80 | 0 | LF | 25.00 | 184.94 | 123.29 | \$ - | \$ - | \$ - | \$ - |
| 3.22 | AL. Bus fittings | 0 | LS | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 3.23 | Steel grating and support beams-transformer moat | 0 | LB | 2.73 | 1.17 | 0.50 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|---|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| TOTAL - SUBSTATION STRUCTURES & GAS-INSULATED CONDUCTOR | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 4. MAJOR EQUIPMENT | | | | | | | | | | |
| 4.1 | 345kV, GIS air terminal | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.2 | 345kV, GIS Cable sealing end | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.3 | 345kV, Cable sealing end | 0 | EA | | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.4 | 345kV, CCVT | 0 | EA | | 15,941.99 | 6,832.28 | \$ - | \$ - | \$ - | \$ - |
| 4.5 | 345kV, Disconnect Switch | 0 | EA | 57,720.00 | 34,632.00 | 23,088.00 | \$ - | \$ - | \$ - | \$ - |
| 4.6 | 345/138KV, Power Transformer with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.7 | Transport & Testing- Transformer | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.8 | 345kV, Shunt Reactor with oil containment-150MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.9 | 345kV, Shunt Reactor with oil containment-100MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.10 | Transport & Testing- Shunt Reactor | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.11 | 345kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.12 | 345kV, Gas Insulated Switchgear, BAAH Arrangement | 6 | BKR | 855,000.00 | 513,000.00 | 342,000.00 | \$ 5,130,000 | \$ 3,078,000 | \$ 2,052,000 | \$ 10,260,000 |
| 4.13 | 345kV, Circuit Breaker (PASS) | 0 | EA | | 57,239.00 | 24,531.00 | \$ - | \$ - | \$ - | \$ - |
| 4.14 | 345kV, Circuit Breaker (GIS), outdoor rated | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.15 | 345kV, Circuit Breaker (GIS), outdoor rated-Line surge Arrester (3phase) | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.16 | 345kV, surge Arrester | 0 | EA | | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.17 | 138kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Transport & Testing- Phase Angle Regulating Transformer, 138kv | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Transport & Testing- Transformer | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.20 | 138kV, Shunt Reactor with oil containment-80MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.21 | Transport & Testing- Shunt Reactor | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.22 | 138kV, Gas Insulated Switchgear, BAAH Arrangement | 0 | BKR | | 205,800.00 | 4,200.00 | \$ - | \$ - | \$ - | \$ - |
| 4.23 | 138kV, Circuit Breaker, AIS breaker | 0 | EA | | 13,559.00 | 5,811.00 | \$ - | \$ - | \$ - | \$ - |
| 4.24 | 138kV, Disconnect Switch | 0 | EA | 37,700.00 | 11,875.50 | 5,089.50 | \$ - | \$ - | \$ - | \$ - |
| 4.25 | 138kV, Cable sealing end | 0 | EA | 11,600.00 | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.26 | 138kV, CCVT | 0 | EA | | 7,970.08 | 3,415.75 | \$ - | \$ - | \$ - | \$ - |
| 4.27 | 138kV, Surge arrester | 0 | EA | | 4,200.00 | 1,800.00 | \$ - | \$ - | \$ - | \$ - |
| 4.28 | Station service transformers- 120/208v-250VA | 0 | EA | | 45,500.00 | 19,500.00 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| TOTAL - MAJOR EQUIPMENT | | | | | | | \$ 5,130,000 | \$ 3,078,000 | \$ 2,052,000 | \$ 10,260,000 |
| 5. LOW VOLTAGE & CONTROL CABLE | | | | | | | | | | |
| 5.1 | Control Cables | | LF | 5.30 | 1.43 | 0.29 | \$ - | \$ - | \$ - | \$ - |
| 5.2 | | | LF | | - | - | \$ - | \$ - | \$ - | \$ - |
| TOTAL - LOW VOLTAGE & CONTROL CABLE | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 6. CONDUIT & CABLE TRENCH | | | | | | | | | | |
| 6.1 | Conduit, PVC, 6", SCH 40 | | LF | 20.70 | 13.28 | 6.64 | \$ - | \$ - | \$ - | \$ - |
| 6.2 | Conduit, PVC, 4", SCH 40 | | LF | 11.15 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.3 | Conduit, PVC, 3", SCH 40 | | LF | 8.10 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.4 | Conduit, PVC, 2", SCH 40 | | LF | 3.95 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.5 | Conduit, PVC, 1", SCH 40 | | LF | 1.90 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.6 | Cable Trench | | LF | 266.50 | 53.04 | 13.26 | \$ - | \$ - | \$ - | \$ - |
| 6.7 | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 6.8 | 138kV UG- Conduit | 0 | LF | 266.73 | 202.15 | 100.00 | \$ - | \$ - | \$ - | \$ - |
| 6.9 | 138kV UG- Cable | | LF | 145.00 | 87.00 | 58.00 | \$ - | \$ - | \$ - | \$ - |
| 6.10 | 138kV UG- Termination | 0 | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ - | \$ - | \$ - | \$ - |
| 6.11 | 345kV UG- Conduit | 3,207 | LF | 266.73 | 202.15 | 100.00 | \$ 855,326 | \$ 648,223 | \$ 320,686 | \$ 1,824,235 |
| 6.12 | 345kV UG- Cable | 9,620 | LF | 167.00 | 100.20 | 66.80 | \$ 1,606,557 | \$ 963,934 | \$ 642,623 | \$ 3,213,113 |
| 6.13 | 345kV UG- Termination | 18 | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ 500,490 | \$ 177,237 | \$ 50,639 | \$ 728,366 |
| 6.14 | Fiber Optic Cable | 3,207 | LF | 7.40 | 3.33 | 2.22 | \$ 23,720 | \$ 10,680 | \$ 7,120 | \$ 41,520 |
| 6.15 | Ground Continuity Conductor | 3,207 | LF | 13.04 | 7.53 | 5.02 | \$ 41,812 | \$ 24,137 | \$ 16,091 | \$ 82,040 |
| TOTAL - CONDUIT & CABLE TRENCH | | | | | | | \$ 3,027,905 | \$ 1,824,211 | \$ 1,037,159 | \$ 5,889,274 |
| 7. GROUND GRID | | | | | | | | | | |
| 7.1 | Cable, 4/0 AWG Bare Copper, 7 Strand Ground Conductor | 3,280 | LF | 2.09 | 3.42 | 1.46 | \$ 6,858 | \$ 11,202 | \$ 4,801 | \$ 22,862 |
| 7.2 | Caweld, DSA, 4/0 , T, CROSS | 164 | EA | 165.00 | 75.00 | | \$ 27,060 | \$ 12,300 | \$ - | \$ 39,360 |
| 7.3 | Ground Rod, 3/4" x 15' | 53 | EA | 135.00 | 67.50 | 7.50 | \$ 7,196 | \$ 3,598 | \$ 400 | \$ 11,193 |
| TOTAL - GROUND GRID | | | | | | | \$ 41,114 | \$ 27,100 | \$ 5,201 | \$ 73,415 |
| 8. CONTROL ENCLOSURE | | | | | | | | | | |
| 8.1 | 345kv GIS Bldg | 1 | EA | 2,226,935.13 | 1,558,854.59 | 668,080.54 | \$ 2,226,935 | \$ 1,558,855 | \$ 668,081 | \$ 4,453,870 |
| 8.2 | 138kv GIS/Control Bldg | 0 | EA | 1,145,280.92 | 801,696.65 | 343,584.28 | \$ - | \$ - | \$ - | \$ - |
| 8.3 | Primary Line Relays (87L): SEL-411L | 4 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 85,312 | \$ 68,250 | \$ 17,062 | \$ 170,625 |
| 8.4 | Backup Line Relays (87L): GE L90 | 4 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 85,312 | \$ 68,250 | \$ 17,062 | \$ 170,625 |
| 8.5 | Primary Bay Control: SEL-451 | 2 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |
| 8.6 | Backup Bay Control: SEL-451 | 2 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 8.7 | Primary Bus Differential Relays: SEL-487B | 2 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |
| 8.8 | Backup Bus Differential Relays: GE B90 | 2 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |
| 8.9 | RTU Panel A: SEL-2240 Axion, SEL-2730M ENET SW., SEL-2407 GPS, Modem, SEL-2523 Annunciator, JMUX | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.10 | RTU Panel B: SEL-2730M Ethernet Switch, SEL-2407 GPS Clock, SEL-2523 Annnunciator | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.11 | HMI Panel | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.12 | Primary Line Relays (87L): SEL-411L | 3 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 63,984 | \$ 51,187 | \$ 12,797 | \$ 127,969 |
| 8.13 | Backup Line Relays (87L): GE L90 | 3 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 63,984 | \$ 51,187 | \$ 12,797 | \$ 127,969 |
| 8.14 | 125VDC Battery System | 2 | LS | 25,000.00 | 22,750.00 | 9,750.00 | \$ 50,000 | \$ 45,500 | \$ 19,500 | \$ 115,000 |
| 8.15 | Control house AC Panel | 2 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ 130,000 | \$ 182,000 | \$ 78,000 | \$ 390,000 |
| 8.16 | Control House DC Panel | 2 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ 130,000 | \$ 182,000 | \$ 78,000 | \$ 390,000 |
| 8.17 | Generator | 1 | EA | 130,000.00 | 72,800.00 | 31,200.00 | \$ 130,000 | \$ 72,800 | \$ 31,200 | \$ 234,000 |
| TOTAL - CONTROL ENCLOSURE | | | | | | | \$ 3,173,654 | \$ 2,446,529 | \$ 976,124 | \$ 6,596,307 |
| 9.Rainey 345kV GIS Substation Upgrades | | | | | | | \$ 12,486,425 | \$ 8,541,737 | \$ 4,785,358 | \$ 25,813,520 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 9.1 | Mob / Demob | 1.0 | LS | | 286,898.32 | 122,956.42 | \$ - | \$ 286,898 | \$ 122,956 | \$ 409,855 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 9.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 155,535.20 | | \$ - | \$ 155,535 | \$ - | \$ 155,535 |
| 9.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1 | LS | | 622,140.82 | | \$ - | \$ 622,141 | \$ - | \$ 622,141 |
| 9.4 | Utility PM and Project Oversight | 1 | LS | | 155,535.20 | | \$ - | \$ 155,535 | \$ - | \$ 155,535 |
| 9.5 | Site Accommodation, Facilities, Storage | 1 | LS | 155,535.20 | | | \$ 155,535 | \$ - | \$ - | \$ 155,535 |
| | Engineering | | | | | | | | | |
| 9.6 | Design Engineering | 1.00 | LS | | 1,244,281.63 | | \$ - | \$ 1,244,282 | \$ - | \$ 1,244,282 |
| 9.7 | LiDAR /GPR | 1.00 | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.8 | Geotech | 5.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 13,650 | \$ 9,100 | \$ 22,750 |
| 9.9 | Surveying/Staking | 1.00 | Site | | 108,874.64 | | \$ - | \$ 108,875 | \$ - | \$ 108,875 |
| | Testing & Commissioning | | | | | | | | | |
| 9.10 | Testing & Commissioning of SS and Equipment | 1.00 | LS | | 583,257.02 | | \$ - | \$ 583,257 | \$ - | \$ 583,257 |
| | Permitting and Additional Costs | | | | | | | | | |
| 9.11 | Physical Security | 1.00 | LS | | 62,196.12 | | \$ - | \$ 62,196 | \$ - | \$ 62,196 |
| 9.12 | Environmental Licensing & Permitting Costs & related legal cost | 1.00 | LS | | 155,535.20 | | \$ - | \$ 155,535 | \$ - | \$ 155,535 |
| 9.13 | Environmental-special studies/investigation | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.14 | Warranties / LOC's | 1.00 | LS | | 46,660.56 | | \$ - | \$ 46,661 | \$ - | \$ 46,661 |
| 9.15 | Laydown Lease | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 9.16 | Real Estate (Acquisition) | 1.00 | LS | | | 1,874,704.00 | \$ - | \$ - | \$ 1,874,704 | \$ 1,874,704 |
| 9.17 | Legal Fees (Real estate) | 1.00 | LS | | - | 56,241.12 | \$ - | \$ - | \$ 56,241 | \$ 56,241 |
| 9.18 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 9.19 | Bonds | 1 | LS | | - | \$ 900,000 | \$ - | \$ - | \$ 900,000 | \$ 900,000 |
| 9.20 | Sales Tax on Materials | 8.80% | LS | 12,486,425.49 | | | \$ 1,098,805 | \$ - | \$ - | \$ 1,098,805 |
| 9.21 | Fees for permits, including roadway, railroad, building or other local permits | 1.00 | LS | | 25,813.52 | | \$ - | \$ 25,814 | \$ - | \$ 25,814 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 1,254,341 | \$ 3,460,378 | \$ 2,963,002 | \$ 7,677,720 |

NEXTera Energy- TO41 Core 6

10.Shore Road 138kV Substation Upgrades

Total: \$ 13,943,860

| NEXTera Energy- TO41 Core 6 | | | | | | | | | | |
|---|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|-------------|
| | | Material Supply | Labor Supply | Equip Supply | Total | | | | | |
| 10.Shore Road 138kV Substation Upgrades | | | | | | | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | | \$ 9,922 | \$ 10,764 | \$ 6,052 | \$ 26,738 | | | | | |
| 2. SUBSTATION FOUNDATIONS | | \$ 241,411 | \$ 275,899 | \$ 172,437 | \$ 689,747 | | | | | |
| 3. SUBSTATION STRUCTURES | | \$ 135,326 | \$ 72,142 | \$ 35,749 | \$ 243,217 | | | | | |
| 4. MAJOR EQUIPTMENT | | \$ 5,681,973 | \$ 251,002 | \$ 153,318 | \$ 6,086,293 | | | | | |
| 5. LOW VOLTAGE & CONTROL CABLE | | \$ 61,981 | \$ 16,760 | \$ 3,352 | \$ 82,093 | | | | | |
| 6. CONDUIT & CABLE TRENCH | | \$ 93,385 | \$ 39,180 | \$ 16,275 | \$ 148,840 | | | | | |
| 7. GROUND GRID | | \$ 2,925 | \$ 2,335 | \$ 610 | \$ 5,871 | | | | | |
| 8. CONTROL ENCLOSURE | | \$ 85,312 | \$ 68,250 | \$ 17,062 | \$ 170,625 | | | | | |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | \$ 630,011 | \$ 1,483,167 | \$ 280,758 | \$ 2,393,936 | | | | | |
| SUBTOTAL (Costs): | | \$ 6,942,247 | \$ 2,219,499 | \$ 685,612 | \$ 9,847,359 | | | | | |
| CONTRACTOR MARK-UP (OH&P) | | \$ 1,249,604 | \$ 399,510 | \$ 123,410 | \$ 1,772,525 | | | | | |
| SUBTOTAL: | | \$ 8,191,851 | \$ 2,619,009 | \$ 809,023 | \$ 11,619,883 | | | | | |
| CONTINGENCY ON ENTIRE PROJECT | | \$ 1,638,370 | \$ 523,802 | \$ 161,805 | \$ 2,323,977 | | | | | |
| TOTAL: | | \$ 9,830,222 | \$ 3,142,811 | \$ 970,827 | \$ 13,943,860 | | | | | |
| Description of Work: Add a new 250 MVar reactor at the existing Shore Road 138kV station (5 block of 50 MVar) | | | | | | | | | | |
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
| 10.Shore Road 138kV Substation Upgrades | | | | | | | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | | | | |
| 1.1 | Site Clearing | 0.1 | ACRE | - | 10,800.00 | 7,200.00 | \$ - | \$ 540 | \$ 360 | \$ 900 |
| 1.2 | Demolition | 0 | LS | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 1.3 | New Access Road - 20' | 0 | SY | 4.85 | 7.20 | 4.80 | \$ - | \$ - | \$ - | \$ - |
| 1.4 | Strip and Dispose Top Soil | 81 | CY | | 24.50 | 10.50 | \$ - | \$ 1,976 | \$ 847 | \$ 2,823 |
| 1.5 | Site Grading- Excavation for Substation Pad | 242 | CY | | 9.00 | 6.00 | \$ - | \$ 2,178 | \$ 1,452 | \$ 3,630 |
| 1.6 | Site Grading- Excavation for Substation Pad-Rock excavation-Hauling and disposal | 131 | CY | | 21.00 | 9.00 | \$ - | \$ 2,744.28 | \$ 1,176.12 | \$ 3,920.40 |
| 1.7 | Site Grading- Fill for Substation Pad (site borrow, compacted in place) | 196 | CY | | 2.40 | 1.60 | \$ - | \$ 470 | \$ 314 | \$ 784 |
| 1.8 | Site Grading -Fill for Substation Pad (import, compacted in place) | 131 | CY | 25.00 | 2.40 | 1.60 | \$ 3,267 | \$ 314 | \$ 209 | \$ 3,790 |
| 1.9 | Blasting | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 1.10 | Install substation 8" pad base | 242 | SY | 11.00 | 6.00 | 4.00 | \$ 2,662 | \$ 1,452 | \$ 968 | \$ 5,082 |
| 1.11 | Site Surfacing - Aggregate 6" Thick | 242 | SY | 16.50 | 4.50 | 3.00 | \$ 3,993 | \$ 1,089 | \$ 726 | \$ 5,808 |
| 1.12 | 7' Station Fence w/ Barbed Wire & Grounding | 0 | LF | 13.85 | 13.85 | 6.92 | \$ - | \$ - | \$ - | \$ - |
| 1.13 | 20' Slide Gate & Grounding | 0 | EA | 8,100.00 | 3,245.00 | 1,305.00 | \$ - | \$ - | \$ - | \$ - |
| 1.14 | 4' Pedestrian gate | 0 | EA | 2,500.00 | 1,000.00 | 350.00 | \$ - | \$ - | \$ - | \$ - |
| 1.15 | Storm drain-15" HDPE, INFILTRATION TRENCH, INLET and Hydrodynamic Separator | 0 | LS | 109,761.60 | - | - | \$ - | \$ - | \$ - | \$ - |
| 1.16 | Seeding | 0 | SF | 1.50 | 1.50 | 1.00 | \$ - | \$ - | \$ - | \$ - |
| 1.17 | Erosion Control-Silt fence install & remove | 0 | LF | 2.41 | 3.16 | 0.72 | \$ - | \$ - | \$ - | \$ - |
| 1.18 | Temporary fencing | 0 | LF | 7.50 | 5.25 | 2.25 | \$ - | \$ - | \$ - | \$ - |
| 1.19 | Substation entrance with asphalt | 0 | SY | 19.50 | 26.00 | 19.50 | \$ - | \$ - | \$ - | \$ - |
| 1.20 | Concrete curb | 0 | LF | 26.00 | 27.30 | 11.70 | \$ - | \$ - | \$ - | \$ - |
| 1.21 | Retaining Wall | 0 | LF | 156.00 | 117.00 | 117.00 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | \$ 9,922 | \$ 10,764 | \$ 6,052 | \$ 26,738 |
| 2. SUBSTATION FOUNDATIONS | | | | | | | | | | |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|---|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|------------|
| 2.1 | 345kV, Lightning mast | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | 345kV, A Frame 70' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | 345kV, Bus support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.4 | 345kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.5 | 345kV, Bus support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.6 | 345kV, GIS air terminal | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | 345kV, GIS support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | 345kV, GIS support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.9 | 345kV, GIS Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.10 | 345kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | 345kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.12 | 345kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.13 | 345/138KV, Power Transformer with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.14 | 345kV, Shunt Reactor with oil containment-250MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.15 | 345kV, Shunt Reactor with oil containment-100MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.16 | 345kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.17 | 345kV, Circuit Breaker | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.18 | 345kV, Circuit Breaker (GIS), outdoor rated | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | 345Kv, GIS Enclosure-BLDG with generator pad | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.20 | 345kV, Surge arrester | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.21 | 138kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.22 | 138kV, Shunt Reactor with oil containment-250MVAR | 305 | CY | 703.89 | 804.44 | 502.78 | \$ 214,685 | \$ 245,354 | \$ 153,346 | \$ 613,386 |
| 2.23 | 138kV, Circuit Breaker, AIS breaker | 4 | CY | 703.89 | 804.44 | 502.78 | \$ 3,132 | \$ 3,580 | \$ 2,237 | \$ 8,949 |
| 2.24 | 138kV, Bus support-3 Ph, low | 5 | CY | 703.89 | 804.44 | 502.78 | \$ 3,766 | \$ 4,304 | \$ 2,690 | \$ 10,759 |
| 2.25 | 138kV, Bus support-1 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.26 | 138kV, Disconnect Switch | 12 | CY | 703.89 | 804.44 | 502.78 | \$ 8,531 | \$ 9,750 | \$ 6,094 | \$ 24,375 |
| 2.27 | 138kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.28 | 138kV, Surge arrester | - | CY | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 2.29 | 138kV, CCVT | 16 | CY | 703.89 | 804.44 | 502.78 | \$ 11,297 | \$ 12,911 | \$ 8,070 | \$ 32,278 |
| 2.30 | 138kV, A Frame 50' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Firewall Foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.32 | Precast Firewall for transformer, PARs, reactors | | SF | 25.00 | 15.00 | 10.00 | \$ - | \$ - | \$ - | \$ - |
| 2.33 | Precast Concrete Piles-12"X80' | | EA | 18,000.00 | 3,200.00 | 2,800.00 | \$ - | \$ - | \$ - | \$ - |
| 2.34 | Local Control Cabinet foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.35 | 138kV, GIS Enclosure-BLDG & control room | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| TOTAL - 345KV FOUNDATION | | | | | | | \$ 241,411 | \$ 275,899 | \$ 172,437 | \$ 689,747 |
| 3. SUBSTATION STRUCTURES | | | | | | | | | | |
| 3.1 | 345kV, Lightning mast | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.2 | 345kV, A Frame 70' | | EA | 48,100.00 | 28,860.00 | 19,240.00 | \$ - | \$ - | \$ - | \$ - |
| 3.3 | 345kV, Bus support-3 Ph | | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.4 | 345kV, Bus support-3 Ph, low | | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | 345kV, Bus support-1 Ph | | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | 345kV, GIS air terminal | | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | 345kV, GIS support-1 Ph | | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | 345kV, GIS support-3 Ph | | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | 345kV, GIS Cable sealing end | | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | 345kV, Cable sealing end | | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.11 | 345kV, CCVT | | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.12 | 345kV, Disconnect Switch | | EA | 19,240.00 | 11,544.00 | 7,696.00 | \$ - | \$ - | \$ - | \$ - |
| 3.13 | 138kV, Bus support-3 Ph, low | 1 | EA | 4,173.00 | 2,879.76 | 1,919.84 | \$ 4,173 | \$ 2,880 | \$ 1,920 | \$ 8,973 |
| 3.14 | 138kV, Bus support-1 Ph, low | | EA | 2,782.00 | 1,919.84 | 1,279.89 | \$ - | \$ - | \$ - | \$ - |
| 3.15 | 138kV, Disconnect Switch | 2 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.16 | 138kV, Cable sealing end | | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.18 | 138kV, Surge arrester | | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.17 | 138kV, CCVT | 3 | EA | 3,206.67 | 1,924.00 | 1,282.67 | \$ 9,620 | \$ 5,772 | \$ 3,848 | \$ 19,240 |
| 3.18 | 138kV, A Frame 50' | | EA | 33,000.00 | 19,800.00 | 13,200.00 | \$ - | \$ - | \$ - | \$ - |
| 3.19 | 345kV Gas-Insulated Bus Conductor | | LF | 550.00 | 275.00 | 82.50 | \$ - | \$ - | \$ - | \$ - |
| 3.20 | 345kV Gas-Insulated Bus Conductor-elbow | | EA | 2,500.00 | 1,250.00 | 375.00 | \$ - | \$ - | \$ - | \$ - |
| 3.21 | AL. Bus Tubing, 5" SCH 80 | 60 | LF | 25.00 | 184.94 | 123.29 | \$ 1,500 | \$ 11,096 | \$ 7,398 | \$ 19,994 |
| 3.22 | AL. Bus fittings | 1 | LS | 1,800.00 | 1,800.00 | 900.00 | \$ 1,800 | \$ 1,800 | \$ 900 | \$ 4,500 |
| 3.23 | Steel grating and support beams-transformer moat | 43,280 | LB | 2.73 | 1.17 | 0.50 | \$ 118,233 | \$ 50,594 | \$ 21,683 | \$ 190,511 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SUBSTATION STRUCTURES & GAS-INSULATED CONDUCTOR | | | | | | | \$ 135,326 | \$ 72,142 | \$ 35,749 | \$ 243,217 |
| 4. MAJOR EQUIPMENT | | | | | | | | | | |
| 4.1 | 345kV, GIS air terminal | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.2 | 345kV, GIS Cable sealing end | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|-------------------------------------|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|--------------|
| 4.3 | 345kV, Cable sealing end | 0 | EA | | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.4 | 345kV, CCVT | | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 4.5 | 345kV, Disconnect Switch | | EA | 57,720.00 | 34,632.00 | 23,088.00 | \$ - | \$ - | \$ - | \$ - |
| 4.6 | 345/138KV, Power Transformer with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.7 | Transport & Testing- Transformer | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.8 | 345kV, Shunt Reactor with oil containment-250MVAR | | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.9 | 345kV, Shunt Reactor with oil containment-100MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.10 | Transport & Testing- Shunt Reactor | | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.11 | 345kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.12 | 345kV, Gas Insulated Switchgear, BAAH Arrangement | 0 | BKR | | 205,800.00 | 4,200.00 | \$ - | \$ - | \$ - | \$ - |
| 4.13 | 345kV, Circuit Breaker | | EA | | 57,239.00 | 24,531.00 | \$ - | \$ - | \$ - | \$ - |
| 4.14 | 345kV, Circuit Breaker (GIS), outdoor rated | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.15 | 345kV, Circuit Breaker (GIS), outdoor rated-Line surge Arrester (3phase) | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.16 | 345kV, surge Arrester | 0 | EA | | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.17 | 138kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Transport & Testing- Phase Angle Regulating Transformer, 138kV | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Transport & Testing- Transformer | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.20 | 138kV, Shunt Reactor with oil containment-250MVAR | 1 | EA | 5,484,953.00 | 3,520.00 | 880.00 | \$ 5,484,953 | \$ 3,520 | \$ 880 | \$ 5,489,353 |
| 4.21 | Transport & Testing- Shunt Reactor | 1 | EA | | 204,400.00 | 132,600.00 | \$ - | \$ 204,400 | \$ 132,600 | \$ 337,000 |
| 4.22 | 138kV, Gas Insulated Switchgear, BAAH Arrangement | 0 | BKR | | 205,800.00 | 4,200.00 | \$ - | \$ - | \$ - | \$ - |
| 4.23 | 138kV, Circuit Breaker, | 1 | EA | 112,000.00 | 13,559.00 | 5,811.00 | \$ 112,000 | \$ 13,559 | \$ 5,811 | \$ 131,370 |
| 4.24 | 138kV, Disconnect Switch | 2 | EA | 37,700.00 | 11,875.50 | 5,089.50 | \$ 75,400 | \$ 23,751 | \$ 10,179 | \$ 109,330 |
| 4.25 | 138kV, Cable sealing end | 0 | EA | 11,600.00 | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.26 | 138kV, CCVT | 3 | EA | 3,206.67 | 1,924.00 | 1,282.67 | \$ 9,620 | \$ 5,772 | \$ 3,848 | \$ 19,240 |
| 4.27 | 138kV, Surge arrester | 0 | EA | | 4,200.00 | 1,800.00 | \$ - | \$ - | \$ - | \$ - |
| 4.28 | Station service transformers- 120/208v-250VA | 0 | EA | | 45,500.00 | 19,500.00 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - MAJOR EQUIPMENT | | | | | | | \$ 5,681,973 | \$ 251,002 | \$ 153,318 | \$ 6,086,293 |
| 5. LOW VOLTAGE & CONTROL CABLE | | | | | | | | | | |
| 5.1 | Control Cables | 11,700 | LF | 5.30 | 1.43 | 0.29 | \$ 61,981 | \$ 16,760 | \$ 3,352 | \$ 82,093 |
| 5.2 | | | LF | | - | - | \$ - | \$ - | \$ - | \$ - |
| TOTAL - LOW VOLTAGE & CONTROL CABLE | | | | | | | \$ 61,981 | \$ 16,760 | \$ 3,352 | \$ 82,093 |
| 6. CONDUIT & CABLE TRENCH | | | | | | | | | | |
| 6.1 | Conduit, PVC, 6", SCH 40 | | LF | 20.70 | 13.28 | 6.64 | \$ - | \$ - | \$ - | \$ - |
| 6.2 | Conduit, PVC, 4", SCH 40 | 2,400 | LF | 11.15 | 10.80 | 5.40 | \$ 26,760 | \$ 25,920 | \$ 12,960 | \$ 65,640 |
| 6.3 | Conduit, PVC, 3", SCH 40 | | LF | 8.10 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.4 | Conduit, PVC, 2", SCH 40 | | LF | 3.95 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.5 | Conduit, PVC, 1", SCH 40 | | LF | 1.90 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.6 | Cable Trench | 250 | LF | 266.50 | 53.04 | 13.26 | \$ 66,625 | \$ 13,260 | \$ 3,315 | \$ 83,200 |
| 6.7 | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 6.8 | 138kV UG- Conduit | 0 | LF | 266.73 | 202.15 | 100.00 | \$ - | \$ - | \$ - | \$ - |
| 6.9 | 138kV UG- Cable | 0 | LF | 145.00 | 87.00 | 58.00 | \$ - | \$ - | \$ - | \$ - |
| 6.10 | 138kV UG- Termination | 0 | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ - | \$ - | \$ - | \$ - |
| 6.11 | 345kV UG- Conduit | 0 | LF | 266.73 | 202.15 | 100.00 | \$ - | \$ - | \$ - | \$ - |
| 6.12 | 345kV UG- Cable | 0 | LF | 167.00 | 100.20 | 66.80 | \$ - | \$ - | \$ - | \$ - |
| 6.13 | 345kV UG- Termination | 0 | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ - | \$ - | \$ - | \$ - |
| 6.14 | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 6.15 | | | | | | | \$ - | \$ - | \$ - | \$ - |
| TOTAL - CONDUIT & CABLE TRENCH | | | | | | | \$ 93,385 | \$ 39,180 | \$ 16,275 | \$ 148,840 |
| 7. GROUND GRID | | | | | | | | | | |
| 7.1 | Cable, 4/0 AWG Bare Copper, 7 Strand Ground Conductor | 400 | LF | 2.09 | 3.42 | 1.46 | \$ 836 | \$ 1,366 | \$ 585 | \$ 2,788 |
| 7.2 | Caweld, DSA, 4/0 , T, CROSS | 10 | EA | 165.00 | 75.00 | | \$ 1,650 | \$ 750 | \$ - | \$ 2,400 |
| 7.3 | Ground Rod, 3/4" x 15' | 3 | EA | 135.00 | 67.50 | 7.50 | \$ 439 | \$ 219 | \$ 24 | \$ 683 |
| TOTAL - GROUND GRID | | | | | | | \$ 2,925 | \$ 2,335 | \$ 610 | \$ 5,871 |
| 8. CONTROL ENCLOSURE | | | | | | | | | | |
| 8.1 | 345kv GIS Bldg | 0 | EA | 2,226,935.13 | 1,558,854.59 | 668,080.54 | \$ - | \$ - | \$ - | \$ - |
| 8.2 | 138kv GIS/Control Bldg | 0 | EA | 1,145,280.92 | 801,696.65 | 343,584.28 | \$ - | \$ - | \$ - | \$ - |
| 8.3 | Primary Bay Control: SEL-451 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.4 | Backup Bay Control: SEL-451 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.5 | Primary Transformer/Reactor/PAR Differential Relays: SEL-487E | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.6 | Backup Transformer/Reactor/PAR Differential Relays: GE T60 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.14 | 125VDC Battery System | 0 | LS | 25,000.00 | 22,750.00 | 9,750.00 | \$ - | \$ - | \$ - | \$ - |
| 8.15 | Control house AC Panel | 0 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ - | \$ - | \$ - | \$ - |
| 8.16 | Control House DC Panel | 0 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ - | \$ - | \$ - | \$ - |
| 8.17 | Generator | 0 | EA | 130,000.00 | 72,800.00 | 31,200.00 | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|--------------|
| TOTAL - CONTROL ENCLOSURE | | | | | | | \$ 85,312 | \$ 68,250 | \$ 17,062 | \$ 170,625 |
| 10.Shore Road 138kV Substation Upgrades | | | | | | | \$ 6,312,236 | \$ 736,333 | \$ 404,855 | \$ 7,453,423 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 9.1 | Mob / Demob | 1.0 | LS | | 39,941.55 | 17,117.81 | \$ - | \$ 39,942 | \$ 17,118 | \$ 57,059 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 9.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 74,534.23 | | \$ - | \$ 74,534 | \$ - | \$ 74,534 |
| 9.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1 | LS | | 298,136.92 | | \$ - | \$ 298,137 | \$ - | \$ 298,137 |
| 9.4 | Utility PM and Project Oversight | 1 | LS | | 74,534.23 | | \$ - | \$ 74,534 | \$ - | \$ 74,534 |
| 9.5 | Site Accommodation, Facilities, Storage | 1 | LS | 74,534.23 | | | \$ 74,534 | \$ - | \$ - | \$ 74,534 |
| | Engineering | | | | | | | | | |
| 9.6 | Design Engineering | 1.00 | LS | | 596,273.84 | | \$ - | \$ 596,274 | \$ - | \$ 596,274 |
| 9.7 | LiDAR /GPR | 1.00 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 9.8 | Geotech | 2.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 5,460 | \$ 3,640 | \$ 9,100 |
| 9.9 | Surveying/Staking | 0.20 | Site | | 52,173.96 | | \$ - | \$ 10,435 | \$ - | \$ 10,435 |
| | Testing & Commissioning | | | | | | | | | |
| 9.10 | Testing & Commissioning of SS and Equipment | 1.00 | LS | | 279,503.36 | | \$ - | \$ 279,503 | \$ - | \$ 279,503 |
| | Permitting and Additional Costs | | | | | | | | | |
| 9.11 | Physical Security | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.12 | Environmental Licensing & Permitting Costs & related legal cost | 1.00 | LS | | 74,534.23 | | \$ - | \$ 74,534 | \$ - | \$ 74,534 |
| 9.13 | Environmental-special studies/investigation | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.14 | Warranties / LOC's | 1.00 | LS | | 22,360.27 | | \$ - | \$ 22,360 | \$ - | \$ 22,360 |
| 9.15 | Laydown Lease | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.16 | Real Estate (Acquisition) | - | LS | | | 704,727.00 | \$ - | \$ - | \$ - | \$ - |
| 9.17 | Legal Fees (Real estate) | - | LS | | - | 21,141.81 | \$ - | \$ - | \$ - | \$ - |
| 9.18 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 9.19 | Bonds | 1 | LS | | - | \$ 260,000 | \$ - | \$ - | \$ 260,000 | \$ 260,000 |
| 9.20 | Sales Tax on Materials | 8.80% | LS | 6,312,235.86 | | | \$ 555,477 | \$ - | \$ - | \$ 555,477 |
| 9.21 | Fees for permits, including roadway, railroad, building or other local permits | 1.00 | LS | | 7,453.42 | | \$ - | \$ 7,453 | \$ - | \$ 7,453 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 630,011 | \$ 1,483,167 | \$ 280,758 | \$ 2,393,936 |

NEXTera Energy- TO41 Core 6

11.Sprain Brook 345kV Substation Expansion

Total: \$ 588,691,401

| NEXTera Energy- TO41 Core 6 | | | | | | | | | | |
|---|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| | | Material Supply | Labor Supply | Equip Supply | Total | | | | | |
| 11.Sprain Brook 345kV Substation Expansion | | | | | | | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | | \$ 29,886,197 | \$ 124,478,741 | \$ 142,056,673 | \$ 296,421,611 | | | | | |
| 2. SUBSTATION FOUNDATIONS | | \$ 1,720,348 | \$ 1,937,613 | \$ 1,212,320 | \$ 4,870,281 | | | | | |
| 3. SUBSTATION STRUCTURES | | \$ 957,733 | \$ 851,087 | \$ 547,395 | \$ 2,356,215 | | | | | |
| 4. MAJOR EQUIPTMENT | | \$ 7,726,354 | \$ 1,538,963 | \$ 874,787 | \$ 10,140,104 | | | | | |
| 5. LOW VOLTAGE & CONTROL CABLE | | \$ 244,745 | \$ 66,182 | \$ 13,236 | \$ 324,162 | | | | | |
| 6. CONDUIT & CABLE TRENCH | | \$ 631,324 | \$ 197,728 | \$ 72,112 | \$ 901,164 | | | | | |
| 7. GROUND GRID | | \$ 167,706 | \$ 121,331 | \$ 28,363 | \$ 317,401 | | | | | |
| 8. CONTROL ENCLOSURE | | \$ 1,297,167 | \$ 1,032,988 | \$ 375,678 | \$ 2,705,833 | | | | | |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | \$ 6,931,946 | \$ 72,783,131 | \$ 17,990,666 | \$ 97,705,743 | | | | | |
| SUBTOTAL (Costs): | | \$ 49,563,519 | \$ 203,007,764 | \$ 163,171,232 | \$ 415,742,515 | | | | | |
| CONTRACTOR MARK-UP (OH&P) | | \$ 8,921,433 | \$ 36,541,397 | \$ 29,370,822 | \$ 74,833,653 | | | | | |
| SUBTOTAL: | | \$ 58,484,953 | \$ 239,549,161 | \$ 192,542,053 | \$ 490,576,167 | | | | | |
| CONTINGENCY ON ENTIRE PROJECT | | \$ 11,696,991 | \$ 47,909,832 | \$ 38,508,411 | \$ 98,115,233 | | | | | |
| TOTAL: | | \$ 70,181,943 | \$ 287,458,993 | \$ 231,050,464 | \$ 588,691,401 | | | | | |
| Description of Work: Expand the existing Sprain Brook 345kV substation with additional GIS bay. | | | | | | | | | | |
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
| 11.Sprain Brook 345kV Substation Expansion | | | | | | | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | | | | |
| 1.1 | Site Clearing | 5.4 | ACRE | - | 42,000.00 | 28,000.00 | \$ - | \$ 224,902 | \$ 149,935 | \$ 374,837 |
| 1.2 | Demolition | 1 | LS | - | 120,000.00 | 80,000.00 | \$ - | \$ 120,000 | \$ 80,000 | \$ 200,000 |
| 1.3 | New Access Road - 20' | 3,631 | SY | 4.85 | 7.20 | 4.80 | \$ 17,611 | \$ 26,144 | \$ 17,429 | \$ 61,184 |
| 1.4 | Strip and Dispose Top Soil | 8,639 | CY | | 24.50 | 10.50 | \$ - | \$ 211,658 | \$ 90,711 | \$ 302,369 |
| 1.5 | Site Grading- Excavation for Substation Pad- Soil excavation | 56,901 | CY | | 9.00 | 6.00 | \$ - | \$ 512,110 | \$ 341,407 | \$ 853,517 |
| 1.6 | Site Grading- Excavation for Substation Pad-Rock excavaton | 227,604 | CY | | 120.00 | 180.00 | \$ - | \$ 27,312,533 | \$ 40,968,800 | \$ 68,281,333 |
| 1.7 | Site Grading- Excavation for Substation Pad-Rock excavation-Hauling and disposal | 384,083 | CY | | 21.00 | 9.00 | \$ - | \$ 8,065,732.50 | \$ 3,456,742.50 | \$ 11,522,475 |
| 1.8 | Site Grading- Fill for Substation Pad (site borrow, compacted in place) | 0 | CY | | 2.40 | 1.60 | \$ - | \$ - | \$ - | \$ - |
| 1.9 | Site Grading -Fill for Substation Pad (import, compacted in place) | 0 | CY | 25.00 | 2.40 | 1.60 | \$ - | \$ - | \$ - | \$ - |
| 1.10 | Blasting | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 1.11 | Install substation 8" pad base | 11,380 | SY | 11.00 | 6.00 | 4.00 | \$ 125,182 | \$ 68,281 | \$ 45,521 | \$ 238,985 |
| 1.12 | Site Surfacing - Aggregate 6" Thick | 11,380 | SY | 16.50 | 4.50 | 3.00 | \$ 187,774 | \$ 51,211 | \$ 34,141 | \$ 273,125 |
| 1.13 | 7' Station Fence w/ Barbed Wire & Grounding | 1,300 | LF | 13.85 | 13.85 | 6.92 | \$ 18,002 | \$ 18,002 | \$ 9,001 | \$ 45,006 |
| 1.14 | 20' Slide Gate & Grounding | 0 | EA | 8,100.00 | 3,245.00 | 1,305.00 | \$ - | \$ - | \$ - | \$ - |
| 1.15 | 4' Pedestrian gate | 0 | EA | 2,500.00 | 1,000.00 | 350.00 | \$ - | \$ - | \$ - | \$ - |
| 1.16 | Storm drain-15" HDPE, INFILTRATION TRENCH, INLET and Hydrodynamic Separator | 1 | LS | 219,523.20 | 76,800.00 | 50,736.00 | \$ 219,523 | \$ 76,800 | \$ 50,736 | \$ 347,059 |
| 1.17 | Seeding | 130,834 | SF | 1.50 | 1.50 | 1.00 | \$ 196,251 | \$ 196,251 | \$ 130,834 | \$ 523,336 |
| 1.18 | Erosion Control-Silt fence install & remove | 3,900 | LF | 2.41 | 3.16 | 0.72 | \$ 9,399 | \$ 12,324 | \$ 2,808 | \$ 24,531 |
| 1.19 | Temporary fencing | 1,430 | LF | 7.50 | 5.25 | 2.25 | \$ 10,725 | \$ 7,508 | \$ 3,218 | \$ 21,450 |
| 1.20 | Substation entrance with asphalt | 0 | SY | 19.50 | 26.00 | 19.50 | \$ - | \$ - | \$ - | \$ - |
| 1.21 | Concrete curb | 0 | LF | 26.00 | 27.30 | 11.70 | \$ - | \$ - | \$ - | \$ - |
| 1.22 | Concrete Retaining Wall- Soil excavation | 99,073 | CY | | 9.00 | 6.00 | \$ - | \$ 891,661 | \$ 594,440 | \$ 1,486,101 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|---|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------|
| 1.23 | Concrete Retaining Wall- Rock excavation | 396,294 | CY | | 120.00 | 180.00 | \$ - | \$ 47,555,232 | \$ 71,332,848 | \$ 118,888,080 |
| 1.24 | Concrete Retaining Wall-Rock excavation-Hauling and disposal | 267,498 | CY | | 21.00 | 9.00 | \$ - | \$ 5,617,461.78 | \$ 2,407,483.62 | \$ 8,024,945 |
| 1.25 | Concrete Retaining Wall- Backfill & compaction | 668,745 | CY | 10.00 | 30.00 | 20.00 | \$ 6,687,455 | \$ 20,062,364 | \$ 13,374,909 | \$ 40,124,727 |
| 1.26 | Concrete Retaining Walll- Foundaiton and Wall | 68,967 | CY | 325.00 | 195.00 | 130.00 | \$ 22,414,275 | \$ 13,448,565 | \$ 8,965,710 | \$ 44,828,550 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | \$ 29,886,197 | \$ 124,478,741 | \$ 142,056,673 | \$ 296,421,611 |
| 2. SUBSTATION FOUNDATIONS | | | | | | | | | | |
| 2.1 | 345kV, Lightning mast | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | 345kV, A Frame 70' | 880 | CY | 703.89 | 804.44 | 502.78 | \$ 619,306 | \$ 707,778 | \$ 442,362 | \$ 1,769,446 |
| 2.3 | 345kV, Bus support-3 Ph | 111 | CY | 703.89 | 804.44 | 502.78 | \$ 78,047 | \$ 89,196 | \$ 55,748 | \$ 222,991 |
| 2.4 | 345kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.5 | 345kV, Bus support-1 Ph | 48 | CY | 703.89 | 804.44 | 502.78 | \$ 33,449 | \$ 38,227 | \$ 23,892 | \$ 95,567 |
| 2.6 | 345kV, GIS air terminal | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | 345kV, GIS support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | 345kV, GIS support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.9 | 345kV, GIS Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.10 | 345kV, Cable sealing end | 32 | CY | 703.89 | 804.44 | 502.78 | \$ 22,595 | \$ 25,823 | \$ 16,139 | \$ 64,556 |
| 2.11 | 345kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.12 | 345kV, Disconnect Switch | 253 | CY | 703.89 | 804.44 | 502.78 | \$ 178,393 | \$ 203,877 | \$ 127,423 | \$ 509,693 |
| 2.13 | 345/138KV, Power Transformer with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.14 | 345kV, Shunt Reactor with oil containment-275MVAR | 350 | CY | 703.89 | 804.44 | 502.78 | \$ 246,360 | \$ 281,554 | \$ 175,971 | \$ 703,885 |
| 2.15 | 345kV, Shunt Reactor with oil containment-100MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.16 | 345kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.17 | 345kV, Circuit Breaker | 180 | CY | 703.89 | 804.44 | 502.78 | \$ 126,699 | \$ 144,799 | \$ 90,500 | \$ 361,998 |
| 2.18 | 345kV, Circuit Breaker (GIS), outdoor rated | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | 345kV, Control Enclosure-BLDG with generator pad | 325 | CY | 703.89 | 804.44 | 502.78 | \$ 228,763 | \$ 261,443 | \$ 163,402 | \$ 653,608 |
| 2.20 | 345kV, Surge arrester | 48 | CY | 703.89 | 804.44 | 502.78 | \$ 33,892 | \$ 38,734 | \$ 24,209 | \$ 96,834 |
| 2.21 | 138kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.22 | 138kV, Shunt Reactor with oil containment-80MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.23 | 138kV, Circuit Breaker, AIS breaker | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.24 | 138kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.25 | 138kV, Bus support-1 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.26 | 138kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.27 | 138kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.28 | 138kV, Surge arrester | - | CY | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 2.29 | 138kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.30 | 138kV, A Frame 50' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Firewall Foundation | 143 | CY | 703.89 | 804.44 | 502.78 | \$ 100,346 | \$ 114,681 | \$ 71,676 | \$ 286,702 |
| 2.32 | Precast Firewall for transformer, PARs, reactors | 2,100 | SF | 25.00 | 15.00 | 10.00 | \$ 52,500 | \$ 31,500 | \$ 21,000 | \$ 105,000 |
| 2.33 | Precast Concrete Piles-12"X80' | - | EA | 18,000.00 | 3,200.00 | 2,800.00 | \$ - | \$ - | \$ - | \$ - |
| 2.34 | Local Control Cabinet foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.35 | 138kV, GIS Enclosure-BLDG & control room | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| TOTAL - 345KV FOUNDATION | | | | | | | \$ 1,720,348 | \$ 1,937,613 | \$ 1,212,320 | \$ 4,870,281 |
| 3. SUBSTATION STRUCTURES | | | | | | | | | | |
| 3.1 | 345kV, Lightning mast | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.2 | 345kV, A Frame 70' | 6 | EA | 48,100.00 | 28,860.00 | 19,240.00 | \$ 288,600 | \$ 173,160 | \$ 115,440 | \$ 577,200 |
| 3.3 | 345kV, Bus support-3 Ph | 7 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ 58,422 | \$ 40,311 | \$ 26,874 | \$ 125,607 |
| 3.4 | 345kV, Bus support-3 Ph, low | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | 345kV, Bus support-1 Ph | 6 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ 28,860 | \$ 17,316 | \$ 11,544 | \$ 57,720 |
| 3.6 | 345kV, GIS air terminal | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | 345kV, GIS support-1 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | 345kV, GIS support-3 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | 345kV, GIS Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | 345kV, Cable sealing end | 3 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ 25,038 | \$ 17,276 | \$ 11,517 | \$ 53,832 |
| 3.11 | 345kV, CCVT | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.12 | 345kV, Disconnect Switch | 16 | EA | 19,240.00 | 11,544.00 | 7,696.00 | \$ 307,840 | \$ 184,704 | \$ 123,136 | \$ 615,680 |
| 3.13 | 345kV, Surge arrester | 9 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ 43,290 | \$ 25,974 | \$ 17,316 | \$ 86,580 |
| 3.14 | 138kV, Bus support-3 Ph, low | 0 | EA | 4,173.00 | 2,879.76 | 1,919.84 | \$ - | \$ - | \$ - | \$ - |
| 3.15 | 138kV, Bus support-1 Ph, low | 0 | EA | 2,782.00 | 1,919.84 | 1,279.89 | \$ - | \$ - | \$ - | \$ - |
| 3.16 | 138kV, Disconnect Switch | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.17 | 138kV, Cable sealing end | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.18 | 138kV, Surge arrester | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|---|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 3.19 | 138kV, CCVT | 0 | EA | 3,206.67 | 1,924.00 | 1,282.67 | \$ - | \$ - | \$ - | \$ - |
| 3.20 | 138kV, A Frame 50' | 0 | EA | 33,000.00 | 19,800.00 | 13,200.00 | \$ - | \$ - | \$ - | \$ - |
| 3.21 | AL. Bus Tubing, 5" SCH 80 | 1,590 | LF | 25.00 | 184.94 | 123.29 | \$ 39,750 | \$ 294,051 | \$ 196,034 | \$ 529,836 |
| 3.22 | AL. Bus fittings | 1 | LS | 47,700.00 | 47,700.00 | 23,850.00 | \$ 47,700 | \$ 47,700 | \$ 23,850 | \$ 119,250 |
| 3.23 | Steel grating and support beams-transformer moat | 43,280 | LB | 2.73 | 1.17 | 0.50 | \$ 118,233 | \$ 50,594 | \$ 21,683 | \$ 190,511 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SUBSTATION STRUCTURES & GAS-INSULATED CONDUCTOR | | | | | | | \$ 957,733 | \$ 851,087 | \$ 547,395 | \$ 2,356,215 |
| 4. MAJOR EQUIPMENT | | | | | | | | | | |
| 4.1 | 345kV, GIS air terminal | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.2 | 345kV, GIS Cable sealing end | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.3 | 345kV, Cable sealing end | 9 | EA | 27,144.00 | 5,460.00 | 2,340.00 | \$ 244,296 | \$ 49,140 | \$ 21,060 | \$ 314,496 |
| 4.4 | 345kV, CCVT | 0 | EA | | 15,941.99 | 6,832.28 | \$ - | \$ - | \$ - | \$ - |
| 4.5 | 345kV, Disconnect Switch | 16 | EA | 57,720.00 | 34,632.00 | 23,088.00 | \$ 923,520 | \$ 554,112 | \$ 369,408 | \$ 1,847,040 |
| 4.6 | 345/138KV, Power Transformer with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.7 | Transport & Testing- Transformer | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.8 | 345kV, Shunt Reactor with oil containment-275MVAR | 1 | EA | 3,332,487.50 | 3,520.00 | 880.00 | \$ 3,332,488 | \$ 3,520 | \$ 880 | \$ 3,336,888 |
| 4.9 | 345kV, Shunt Reactor with oil containment-100MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.10 | Transport & Testing- Shunt Reactor | 1 | EA | | 367,900.00 | 241,600.00 | \$ - | \$ 367,900 | \$ 241,600 | \$ 609,500 |
| 4.11 | 345kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.12 | 345kV, Gas Insulated Switchgear, BAAH Arrangement | 0 | BKR | 641,250.00 | 384,750.00 | 256,500.00 | \$ - | \$ - | \$ - | \$ - |
| 4.13 | 345kV, Circuit Breaker | 9 | EA | 350,000.00 | 57,239.00 | 24,531.00 | \$ 3,150,000 | \$ 515,151 | \$ 220,779 | \$ 3,885,930 |
| 4.14 | 345kV, Circuit Breaker (GIS), outdoor rated | 0 | EA | 1,194,419.50 | 716,651.70 | 477,767.80 | \$ - | \$ - | \$ - | \$ - |
| 4.15 | 345kV, Circuit Breaker (GIS), outdoor rated-Line surge Arrester (3phase) | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.16 | 345kV, surge Arrester | 9 | EA | 8,450.00 | 5,460.00 | 2,340.00 | \$ 76,050 | \$ 49,140 | \$ 21,060 | \$ 146,250 |
| 4.17 | 138kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Transport & Testing- Phase Angle Regulating Transformer, 138kV | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Transport & Testing- Transformer | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.20 | 138kV, Shunt Reactor with oil containment-80MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.21 | Transport & Testing- Shunt Reactor | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.22 | 138kV, Gas Insulated Switchgear, BAAH Arrangement | 0 | BKR | | 205,800.00 | 4,200.00 | \$ - | \$ - | \$ - | \$ - |
| 4.23 | 138kV, Circuit Breaker, AIS breaker | 0 | EA | | 13,559.00 | 5,811.00 | \$ - | \$ - | \$ - | \$ - |
| 4.24 | 138kV, Disconnect Switch | 0 | EA | 37,700.00 | 11,875.50 | 5,089.50 | \$ - | \$ - | \$ - | \$ - |
| 4.25 | 138kV, Cable sealing end | 0 | EA | 11,600.00 | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.26 | 138kV, CCVT | 0 | EA | | 7,970.08 | 3,415.75 | \$ - | \$ - | \$ - | \$ - |
| 4.27 | 138kV, Surge arrester | 0 | EA | | 4,200.00 | 1,800.00 | \$ - | \$ - | \$ - | \$ - |
| 4.28 | Station service transformers- 120/208v-250VA | 0 | EA | | 45,500.00 | 19,500.00 | \$ - | \$ - | \$ - | \$ - |
| 4.29 | 345kV Gas-Insulated Bus Conductor | 0 | LF | 550.00 | 275.00 | 82.50 | \$ - | \$ - | \$ - | \$ - |
| 4.30 | 345kV Gas-Insulated Bus Conductor-elbow | 0 | EA | 2,500.00 | 1,250.00 | 375.00 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - MAJOR EQUIPMENT | | | | | | | \$ 7,726,354 | \$ 1,538,963 | \$ 874,787 | \$ 10,140,104 |
| 5. LOW VOLTAGE & CONTROL CABLE | | | | | | | | | | |
| 5.1 | Control Cables | 46,200 | LF | 5.30 | 1.43 | 0.29 | \$ 244,745 | \$ 66,182 | \$ 13,236 | \$ 324,162 |
| 5.2 | | | LF | | - | - | \$ - | \$ - | \$ - | \$ - |
| TOTAL - LOW VOLTAGE & CONTROL CABLE | | | | | | | \$ 244,745 | \$ 66,182 | \$ 13,236 | \$ 324,162 |
| 6. CONDUIT & CABLE TRENCH | | | | | | | | | | |
| 6.1 | Conduit, PVC, 6", SCH 40 | | LF | 20.70 | 13.28 | 6.64 | \$ - | \$ - | \$ - | \$ - |
| 6.2 | Conduit, PVC, 4", SCH 40 | 8,400 | LF | 11.15 | 10.80 | 5.40 | \$ 93,660 | \$ 90,720 | \$ 45,360 | \$ 229,740 |
| 6.3 | Conduit, PVC, 3", SCH 40 | | LF | 8.10 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.4 | Conduit, PVC, 2", SCH 40 | | LF | 3.95 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.5 | Conduit, PVC, 1", SCH 40 | | LF | 1.90 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.6 | Cable Trench | 2,018 | LF | 266.50 | 53.04 | 13.26 | \$ 537,664 | \$ 107,008 | \$ 26,752 | \$ 671,424 |
| 6.7 | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 6.8 | 138kV UG- Conduit | 0 | LF | 266.73 | 202.15 | 100.00 | | | | \$ - |
| 6.9 | 138kV UG- Cable | | LF | 145.00 | 87.00 | 58.00 | | | | \$ - |
| 6.10 | 138kV UG- Termination | 0 | EA | 27,805.00 | 9,846.48 | 2,813.28 | | | | \$ - |
| 6.11 | 345kV UG- Conduit | 466 | LF | 266.73 | 202.15 | 100.00 | | | | \$ - |
| 6.12 | 345kV UG- Cable | 1,398 | LF | 167.00 | 100.20 | 66.80 | | | | \$ - |
| 6.13 | 345kV UG- Termination | 6 | EA | 27,805.00 | 9,846.48 | 2,813.28 | | | | \$ - |
| 6.14 | Fiber Optic Cable | 466 | LF | 7.40 | 3.33 | 2.22 | | | | \$ - |
| 6.15 | Ground Continuity Conductor | 466 | LF | 13.04 | 7.53 | 5.02 | | | | \$ - |
| TOTAL - CONDUIT & CABLE TRENCH | | | | | | | \$ 631,324 | \$ 197,728 | \$ 72,112 | \$ 901,164 |
| 7. GROUND GRID | | | | | | | | | | |
| 7.1 | Cable, 4/0 AWG Bare Copper, 7 Strand Ground Conductor | 17,277 | LF | 2.09 | 3.42 | 1.46 | \$ 36,126 | \$ 59,006 | \$ 25,288 | \$ 120,421 |
| 7.2 | Caweld, DSA, 4/0 , T, CROSS | 462 | EA | 165.00 | 75.00 | | \$ 76,230 | \$ 34,650 | \$ - | \$ 110,880 |
| 7.3 | Ground Rod, 3/4" x 15' | 410 | EA | 135.00 | 67.50 | 7.50 | \$ 55,350 | \$ 27,675 | \$ 3,075 | \$ 86,100 |
| TOTAL - GROUND GRID | | | | | | | \$ 167,706 | \$ 121,331 | \$ 28,363 | \$ 317,401 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|---|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------|
| 8. CONTROL ENCLOSURE | | | | | | | | | | |
| 8.1 | 345kv GIS Bldg | 1 | EA | 542,947.99 | 380,063.60 | 162,884.40 | \$ 542,948 | \$ 380,064 | \$ 162,884 | \$ 1,085,896 |
| 8.2 | 138kv GIS/Control Bldg | 0 | EA | 1,145,280.92 | 801,696.65 | 343,584.28 | \$ - | \$ - | \$ - | \$ - |
| 8.3 | Primary Line Relays (87L): SEL-411L | 2 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |
| 8.4 | Backup Line Relays (87L): GE L90 | 2 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |
| 8.5 | Primary Bay Control: SEL-451 | 2 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |
| 8.6 | Backup Bay Control: SEL-451 | 2 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |
| 8.7 | Primary Transformer/Reactor/PAR Differential Relays: SEL-487E | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.8 | Backup Transformer/Reactor/PAR Differential Relays: GE T60 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.9 | Primary Bus Differential Relays: SEL-487B | 6 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 127,969 | \$ 102,375 | \$ 25,594 | \$ 255,937 |
| 8.10 | Backup Bus Differential Relays: GE B90 | 6 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 127,969 | \$ 102,375 | \$ 25,594 | \$ 255,937 |
| 8.14 | 125VDC Battery System | 1 | LS | 25,000.00 | 22,750.00 | 9,750.00 | \$ 25,000 | \$ 22,750 | \$ 9,750 | \$ 57,500 |
| 8.15 | Control house AC Panel | 1 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ 65,000 | \$ 91,000 | \$ 39,000 | \$ 195,000 |
| 8.16 | Control House DC Panel | 1 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ 65,000 | \$ 91,000 | \$ 39,000 | \$ 195,000 |
| 8.17 | Generator | 1 | EA | 130,000.00 | 72,800.00 | 31,200.00 | \$ 130,000 | \$ 72,800 | \$ 31,200 | \$ 234,000 |
| TOTAL - CONTROL ENCLOSURE | | | | | | | \$ 1,297,167 | \$ 1,032,988 | \$ 375,678 | \$ 2,705,833 |
| 11.Sprain Brook 345kV Substation Expansion | | | | | | | \$ 42,631,573 | \$ 130,224,633 | \$ 145,180,566 | \$ 318,036,771 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 9.1 | Mob / Demob | 1.0 | LS | | 9,639,181.94 | 4,131,077.97 | \$ - | \$ 9,639,182 | \$ 4,131,078 | \$ 13,770,260 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 9.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 3,180,367.71 | | \$ - | \$ 3,180,368 | \$ - | \$ 3,180,368 |
| 9.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1.00 | LS | | 12,721,470.86 | | \$ - | \$ 12,721,471 | \$ - | \$ 12,721,471 |
| 9.4 | Utility PM and Project Oversight | 1.00 | LS | | 3,180,367.71 | | \$ - | \$ 3,180,368 | \$ - | \$ 3,180,368 |
| 9.5 | Site Accommodation, Facilities, Storage | 1.00 | LS | 3,180,367.71 | | | \$ 3,180,368 | \$ - | \$ - | \$ 3,180,368 |
| | Engineering | | | | | | | | | |
| 9.6 | Design Engineering | 1.00 | LS | | 25,442,941.71 | | \$ - | \$ 25,442,942 | \$ - | \$ 25,442,942 |
| 9.7 | LiDAR /GPR | - | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 9.8 | Geotech | 5.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 13,650 | \$ 9,100 | \$ 22,750 |
| 9.9 | Surveying/Staking | 1.00 | Site | | 2,226,257.40 | | \$ - | \$ 2,226,257 | \$ - | \$ 2,226,257 |
| | Testing & Commissioning | | | | | | | | | |
| 9.10 | Testing & Commissioning of SS and Equipment | 1.00 | LS | | 11,926,378.93 | | \$ - | \$ 11,926,379 | \$ - | \$ 11,926,379 |
| | Permitting and Additional Costs | | | | | | | | | |
| 9.11 | Physical Security | - | LS | | 6,546.96 | | \$ - | \$ - | \$ - | \$ - |
| 9.12 | Environmental Licensing & Permitting Costs & related legal cost | 1.00 | LS | | 3,180,367.71 | | \$ - | \$ 3,180,368 | \$ - | \$ 3,180,368 |
| 9.13 | Environmental-special studies/investigation | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.14 | Warranties / LOC's | 1.00 | LS | | 954,110.31 | | \$ - | \$ 954,110 | \$ - | \$ 954,110 |
| 9.15 | Laydown Lease | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.16 | Real Estate (Acquisition) | 1.00 | LS | | - | 2,029,600.00 | \$ - | \$ - | \$ 2,029,600 | \$ 2,029,600 |
| 9.17 | Legal Fees (Real estate) | 1.00 | LS | | - | 60,888.00 | \$ - | \$ - | \$ 60,888 | \$ 60,888 |
| 9.18 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 9.19 | Bonds | 1 | LS | | - | \$ 11,760,000 | \$ - | \$ - | \$ 11,760,000 | \$ 11,760,000 |
| 9.20 | Sales Tax on Materials | 8.80% | LS | 42,631,573.11 | | | \$ 3,751,578 | \$ - | \$ - | \$ 3,751,578 |
| 9.21 | Fees for permits, including roadway, railroad, building or other local permits | 1.00 | LS | | 318,036.77 | | \$ - | \$ 318,037 | \$ - | \$ 318,037 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 6,931,946 | \$ 72,783,131 | \$ 17,990,666 | \$ 97,705,743 |

NEXTera Energy- TO41 Core 6

12 - Station 36a Sprain Brook HVDC 1200MW Converter Station

Total: \$ 454,943,796

| NEXTera Energy- TO41 Core 6 | | | | |
|---|-----------------|---------------|----------------|----------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| 12 - Station 36a Sprain Brook HVDC 1200MW Converter Station | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | \$ 2,265,365 | \$ 6,143,166 | \$ 7,447,195 | \$ 15,855,727 |
| 2. SUBSTATION FOUNDATIONS | \$ - | \$ - | \$ - | \$ - |
| 3. SUBSTATION STRUCTURES | \$ - | \$ - | \$ - | \$ - |
| 4. MAJOR EQUIPMENT | \$ 180,000,000 | \$ 60,000,000 | \$ 60,000,000 | \$ 300,000,000 |
| 5. LOW VOLTAGE & CONTROL CABLE | \$ - | \$ - | \$ - | \$ - |
| 6. CONDUIT & CABLE TRENCH | \$ - | \$ - | \$ - | \$ - |
| 7. GROUND GRID | \$ 238,706 | \$ 172,356 | \$ 40,224 | \$ 451,286 |
| 8. CONTROL ENCLOSURE | \$ 80,156 | \$ 64,125 | \$ 16,031 | \$ 160,312 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 16,232,085 | \$ 4,074,870 | \$ 15,022,185 | \$ 35,329,140 |
| Turnkey cost (HVDC, GIS) | \$ 180,000,000 | \$ 60,000,000 | \$ 60,000,000 | \$ 300,000,000 |
| Non-Turnkey cost | \$ 18,816,313 | \$ 10,454,517 | \$ 22,525,636 | \$ 51,796,466 |
| SUBTOTAL (Costs): | \$ 198,816,313 | \$ 70,454,517 | \$ 82,525,636 | \$ 351,796,466 |
| CONTRACTOR MARK-UP (OH&P) | \$ 14,186,936 | \$ 5,481,813 | \$ 7,654,615 | \$ 27,323,364 |
| SUBTOTAL: | \$ 213,003,249 | \$ 75,936,330 | \$ 90,180,251 | \$ 379,119,830 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 42,600,650 | \$ 15,187,266 | \$ 18,036,050 | \$ 75,823,966 |
| TOTAL: | \$ 255,603,899 | \$ 91,123,596 | \$ 108,216,301 | \$ 454,943,796 |

| Description of Work: Construct a new Sprain Brook 1200MW converter station, with a transition from 320kV DC to 345kV AC and tie into the expanded Sprain Brook 345kV GIS station and the Northport-Sprain Brook HVDC cable. | | | | | | | | | | |
|---|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
| 12 - Station 36a Sprain Brook HVDC 1200MW Converter Station | | | | | | | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | | | | |
| 1.1 | Site Clearing | 5.0 | ACRE | - | 21,000.00 | 14,000.00 | \$ - | \$ 105,000 | \$ 70,000 | \$ 175,000 |
| 1.2 | Demolition | 0 | ACRE | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 1.3 | New Access Road - 20' | 1,002 | SY | 4.85 | 7.20 | 4.80 | \$ 4,861 | \$ 7,216 | \$ 4,811 | \$ 16,887 |
| 1.4 | Strip and Dispose Top Soil | 8,067 | CY | | 24.50 | 10.50 | \$ - | \$ 197,633 | \$ 84,700 | \$ 282,333 |
| 1.5 | Site Grading- Excavation for Substation Pad- Soil excavation | 4,033 | CY | | 9.00 | 6.00 | \$ - | \$ 36,300 | \$ 24,200 | \$ 60,500 |
| 1.6 | Site Grading- Excavation for Substation Pad-Rock excavaton | 36,300 | CY | | 120.00 | 180.00 | \$ - | \$ 4,356,000.00 | \$ 6,534,000.00 | \$ 10,890,000 |
| 1.7 | Site Grading- Excavation for Substation Pad-Rock excavation-Hauling and disposal | 43,560 | CY | | 21.00 | 9.00 | \$ - | \$ 914,760.00 | \$ 392,040.00 | \$ 1,306,800 |
| 1.8 | Site Grading- Fill for Substation Pad (site borrow, compacted in place) | 1,089 | CY | | 2.40 | 1.60 | \$ - | \$ 2,614 | \$ 1,742 | \$ 4,356 |
| 1.9 | Site Grading -Fill for Substation Pad (import, compacted in place) | 43,560 | CY | 25.00 | 2.40 | 1.60 | \$ 1,089,000 | \$ 104,544 | \$ 69,696 | \$ 1,263,240 |
| 1.10 | Install substation 8" pad base | 12,100 | SY | 11.00 | 6.00 | 4.00 | \$ 133,100 | \$ 72,600 | \$ 48,400 | \$ 254,100 |
| 1.11 | Site Surfacing - Aggregate 6" Thick | 18,150 | SY | 16.50 | 4.50 | 3.00 | \$ 299,475 | \$ 81,675 | \$ 54,450 | \$ 435,600 |
| 1.12 | 7' Station Fence w/ Barbed Wire & Grounding | 1,872 | LF | 13.85 | 13.85 | 6.92 | \$ 25,923 | \$ 25,923 | \$ 12,962 | \$ 64,809 |
| 1.13 | 25' Slide Gate & Grounding | 2 | EA | 8,100.00 | 3,245.00 | 1,305.00 | \$ 16,200 | \$ 6,490 | \$ 2,610 | \$ 25,300 |
| 1.14 | 4' Pedestrian gate | 2 | EA | 2,500.00 | 1,000.00 | 350.00 | \$ 5,000 | \$ 2,000 | \$ 700 | \$ 7,700 |
| 1.15 | Storm drain-15" HDPE, INFILTRATION TRENCH, INLET and Hydrodynamic Separator | 1 | LS | 625,766.40 | 161,280.00 | 106,545.60 | \$ 625,766 | \$ 161,280 | \$ 106,546 | \$ 893,592 |
| 1.16 | Seeding | 16,480 | SF | 1.50 | 1.50 | 1.00 | \$ 24,720 | \$ 24,720 | \$ 16,480 | \$ 65,920 |
| 1.17 | Erosion Control-Silt fence install & remove | 3,089 | LF | 2.41 | 3.16 | 0.72 | \$ 7,444 | \$ 9,761 | \$ 2,224 | \$ 19,429 |
| 1.18 | Temporary fencing | 2,059 | LF | 7.50 | 5.25 | 2.25 | \$ 15,444 | \$ 10,811 | \$ 4,633 | \$ 30,888 |
| 1.19 | Substation entrance with asphalt | 812 | SY | 19.50 | 26.00 | 19.50 | \$ 15,832 | \$ 21,109 | \$ 15,832 | \$ 52,773 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|---|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 1.20 | Concrete curb | 100 | LF | 26.00 | 27.30 | 11.70 | \$ 2,600 | \$ 2,730 | \$ 1,170 | \$ 6,500 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | \$ 2,265,365 | \$ 6,143,166 | \$ 7,447,195 | \$ 15,855,727 |
| 2. SUBSTATION FOUNDATIONS | | | | | | | | | | |
| 2.1 | 345kV, Lightning mast foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | 345kV, A Frame 70' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | 345kV, H Frame -SHARED COLUMN (3 BAY) | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.4 | 345kV, Bus support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.5 | 345kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.6 | 345kV, Bus support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | 345kV, GIS air terminal | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | 345kV, GIS support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.9 | 345kV, GIS support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.10 | 345kV, GIS Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | 345kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.12 | 345kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.13 | 345kV, SSVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.14 | 345kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.15 | 345/138KV, Single-Phase 720/900/1200MVA Power Transformer with oil containmenet | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.16 | 345kV, Shunt Reactor with oil containment-150MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.17 | 345kV, Shunt Reactor with oil containment-100MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.18 | 345kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | 345kV, Circuit Breaker (PASS) | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.20 | 345kV, Circuit Breaker (GIS), outdoor rated | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.21 | 345kV, Surge arrester | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.22 | 345/138 Kv, Control Enclosure-BLDG with generator pad | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.23 | 345kV, GIS Enclosure-BLDG | | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.24 | HVDC VSC Converter Station -DC Converter Hall | | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.25 | HVDC VSC Converter Station -Control Building | | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.26 | HVDC VSC Converter Station -Cooler Bank | | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.27 | HVDC VSC Converter Station -Storage Builiding | | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.28 | HVDC VSC Converter Station-Network AC harmonic filters | | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.29 | HVDC VSC Converter Station -AC PLC filter area | | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.30 | HVDC VSC Converter Station-Transformer area | | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.31 | HVDC VSC Converter Station- AIS equipment | | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.32 | 138kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.33 | 138kV, Dead-Tank Breaker | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.34 | 138kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.35 | 138kV, Bus support-1 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.36 | 138kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.37 | 138kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.38 | 138kV, Surge arrester | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.39 | 138kV, H Frame H Frame -SHARED COLUMN (3 BAY) | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.40 | Steel grating and support beams-transformer moat | 0 | LB | 2.73 | 1.17 | 0.50 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| TOTAL - 345KV FOUNDATION | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 3. SUBSTATION STRUCTURES | | | | | | | | | | |
| 3.1 | 345kV, Lightning mast foundation | 0 | EA | 23,400.00 | 14,040.00 | 9,360.00 | \$ - | \$ - | \$ - | \$ - |
| 3.2 | 345kV, A Frame 70' | 0 | EA | 48,100.00 | 28,860.00 | 19,240.00 | \$ - | \$ - | \$ - | \$ - |
| 3.3 | 345kV, H Frame -SHARED COLUMN (3 BAY) | 0 | EA | 64,350.00 | 38,610.00 | 25,740.00 | \$ - | \$ - | \$ - | \$ - |
| 3.4 | 345kV, Bus support-3 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | 345kV, Bus support-3 Ph, low | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | 345kV, Bus support-1 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | 345kV, GIS air terminal | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | 345kV, GIS support-1 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | 345kV, GIS support-3 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | 345kV, GIS Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.11 | 345kV, Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.12 | 345kV, CCVT | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.13 | 345kV, SSVT | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.14 | 345kV, Disconnect Switch | 0 | EA | 19,240.00 | 11,544.00 | 7,696.00 | \$ - | \$ - | \$ - | \$ - |
| 3.15 | 345kV, Surge arrester | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.16 | 138kV, Bus support-3 Ph, low | 0 | EA | 4,173.00 | 2,879.76 | 1,919.84 | \$ - | \$ - | \$ - | \$ - |
| 3.17 | 138kV, Bus support-1 Ph, low | 0 | EA | 2,782.00 | 1,919.84 | 1,279.89 | \$ - | \$ - | \$ - | \$ - |
| 3.18 | 138kV, Disconnect Switch | 0 | EA | | | | | | | |
| 3.19 | 138kV, Cable sealing end | 0 | EA | 4,066.40 | 1,443.00 | 962.00 | \$ - | \$ - | \$ - | \$ - |
| 3.20 | 138kV, Surge arrester | 0 | EA | 4,066.40 | 1,443.00 | 962.00 | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------|
| 3.21 | 138kV, H Frame H Frame -SHARED COLUMN (3 BAY) | 0 | EA | 45,045.00 | 27,027.00 | 18,018.00 | \$ - | \$ - | \$ - | \$ - |
| 3.22 | AL. Bus Tubing, 5" SCH 80 | | LF | 25.00 | 184.94 | 123.29 | \$ - | \$ - | \$ - | \$ - |
| 3.23 | AL. Bus fittings | | LS | 36,300.00 | 36,300.00 | 18,150.00 | \$ - | \$ - | \$ - | \$ - |
| 3.24 | HVDC VSC Converter Station -DC Equipment stands | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.25 | HVDC VSC Converter Station-AC Switch Yard Equipment stands | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SUBSTATION STRUCTURES & GAS-INSULATED CONDUCTOR | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 4. MAJOR EQUIPMENT | | | | | | | | | | |
| 4.1 | 345Kv, GIS indoor | 0 | EA | 852,222.22 | 511,333.33 | 340,888.89 | \$ - | \$ - | \$ - | \$ - |
| 4.2 | 345kV, GIS air terminal | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.3 | 345kV, GIS- Cable sealing end | 0 | EA | 27,144.00 | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.4 | 345kV, CCVT | 0 | EA | | 15,941.99 | 6,832.28 | \$ - | \$ - | \$ - | \$ - |
| 4.5 | 345kV, SSVT | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.6 | 345kV, Disconnect Switch | 0 | EA | 57,720.00 | 34,632.00 | 23,088.00 | \$ - | \$ - | \$ - | \$ - |
| 4.7 | 345/138KV, Single-Phase 720/900/1200MVA Power Transformer with oil containmenet | 0 | EA | 9,980,000.00 | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.8 | Transport & Testing- Transformer | 0 | EA | | 1,170,400.00 | 501,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.9 | 345kV, Shunt Reactor with oil containment-150MVAR | 0 | EA | 2,629,516.50 | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.10 | 345kV, Shunt Reactor with oil containment-100MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.11 | Transport & Testing- Shunt Reactor | 0 | EA | | 339,150.00 | 145,350.00 | \$ - | \$ - | \$ - | \$ - |
| 4.12 | 345kV, Phase Angle Regulator | 0 | EA | 16,120,693.00 | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.13 | Transport & Testing- Phase Angle Regulating Transformer, 345kV | 0 | EA | | 715,400.00 | 306,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.14 | 345kV, Circuit Breaker (PASS) | 0 | EA | | 57,239.00 | 24,531.00 | \$ - | \$ - | \$ - | \$ - |
| 4.15 | 345kV, Circuit Breaker (GIS), outdoor rated | 0 | EA | 1,341,857.17 | 805,114.30 | 536,742.87 | \$ - | \$ - | \$ - | \$ - |
| 4.16 | 345kV, surge Arrester | 0 | EA | | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.17 | 345kV, GIS Cable sealing end | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.18 | 138kV, Phase Angle Regulator | 0 | EA | 11,902,178.00 | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Transport & Testing- Phase Angle Regulating Transformer, 138kV | 0 | EA | | 701,400.00 | 300,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.20 | 138kV, Dead-Tank Breaker | 0 | EA | 183,000.00 | 13,559.00 | 5,811.00 | \$ - | \$ - | \$ - | \$ - |
| 4.21 | 138kV, Disconnect Switch | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.22 | 138kV, Cable sealing end | 0 | EA | 37,700.00 | 11,875.50 | 5,089.50 | \$ - | \$ - | \$ - | \$ - |
| 4.23 | 138kV, Surge arrester | 0 | EA | 4,446.00 | 4,200.00 | 1,800.00 | \$ - | \$ - | \$ - | \$ - |
| 4.24 | Station service transformers- 120/208v-250VA | 0 | EA | 260,000.00 | 45,500.00 | 19,500.00 | \$ - | \$ - | \$ - | \$ - |
| 4.25 | HVDC 1200MW Monopoles | 1.0 | EA | 180,000,000.00 | 60,000,000.00 | 60,000,000.00 | \$ 180,000,000.00 | \$ 60,000,000.00 | \$ 60,000,000.00 | \$ 300,000,000 |
| 4.26 | HVDC VSC Converter Station -DC transducer | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.27 | HVDC VSC Converter Station -Converter phase reactor | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.28 | HVDC VSC Converter Station -Cooling fans | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.29 | HVDC VSC Converter Station- Converter Transformer | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.30 | HVDC VSC Converter Station -Converter enclosure | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.31 | HVDC VSC Converter Station -Control enclosure | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.32 | HVDC VSC Converter Station -Storage building | | | | | | | | | |
| 4.32 | 345kV Gas-Insulated Bus Conductor (Ourdoor) | | LF | 550.00 | 275.00 | 82.50 | \$ - | \$ - | \$ - | \$ - |
| 4.33 | 345kV Gas-Insulated Bus Conductor-elbow (Ourdoor) | | EA | 2,500.00 | 1,250.00 | 375.00 | \$ - | \$ - | \$ - | \$ - |
| 4.28 | Transport & Testing- GIL | | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| TOTAL - MAJOR EQUIPMENT | | | | | | | \$ 180,000,000 | \$ 60,000,000 | \$ 60,000,000 | \$ 300,000,000 |
| 5. LOW VOLTAGE & CONTROL CABLE | | | | | | | | | | |
| 5.1 | Control Cables | | LF | 5.30 | 1.43 | 0.29 | \$ - | \$ - | \$ - | \$ - |
| 5.2 | | | LF | 5.30 | 1.43 | 0.29 | \$ - | \$ - | \$ - | \$ - |
| TOTAL - LOW VOLTAGE & CONTROL CABLE | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 6. CONDUIT & CABLE TRENCH | | | | | | | | | | |
| 6.1 | Conduit, PVC, 6", SCH 40 | | LF | 20.70 | 13.28 | 6.64 | \$ - | \$ - | \$ - | \$ - |
| 6.2 | Conduit, PVC, 4", SCH 40 | 0 | LF | 11.15 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.3 | Conduit, PVC, 3", SCH 40 | | LF | 8.10 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.4 | Conduit, PVC, 2", SCH 40 | | LF | 3.95 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.5 | Conduit, PVC, 1", SCH 40 | | LF | 1.90 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.6 | Cable Trench | | LF | 266.50 | 53.04 | 13.26 | \$ - | \$ - | \$ - | \$ - |
| 6.8 | 345kV UG- Conduit | 1,001 | LF | 266.73 | 202.15 | 100.00 | | | | |
| 6.9 | 345kV UG- Cable | 3,153 | LF | 167.00 | 100.20 | 66.80 | | | | |
| 6.10 | 345kV UG- Termination | 6 | EA | 27,805.00 | 9,846.48 | 2,813.28 | | | | |
| 6.13 | Fiber Optic Cable | 1,051 | LF | 7.40 | 3.33 | 2.22 | | | | |
| 6.14 | Ground Continuity Conductor | 1,051 | LF | 13.04 | 7.53 | 5.02 | | | | |
| TOTAL - CONDUIT & CABLE TRENCH | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 7. GROUND GRID | | | | | | | | | | |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------|
| 7.1 | Cable, 4/0 AWG Bare Copper, 7 Strand Ground Conductor | 24,417 | LF | 2.09 | 3.42 | 1.46 | \$ 51,056 | \$ 83,391 | \$ 35,739 | \$ 170,186 |
| 7.2 | Caweld, DSA, 4/0 , T, CROSS | 648 | EA | 165.00 | 75.00 | | \$ 106,920 | \$ 48,600 | \$ - | \$ 155,520 |
| 7.3 | Ground Rod, 3/4" x 15' | 598 | EA | 135.00 | 67.50 | 7.50 | \$ 80,730 | \$ 40,365 | \$ 4,485 | \$ 125,580 |
| TOTAL - GROUND GRID | | | | | | | \$ 238,706 | \$ 172,356 | \$ 40,224 | \$ 451,286 |
| 8. CONTROL ENCLOSURE | | | | | | | | | | |
| 8.1 | 345/138 Kv, Control Enclosure-BLDG with generator pad | 0 | EA | 964,411.37 | 675,087.96 | 289,323.41 | \$ - | \$ - | \$ - | \$ - |
| 8.2 | 345kV, GIS Enclosure-BLDG | 0 | EA | 2,211,495.05 | 1,548,046.53 | 663,448.51 | \$ - | \$ - | \$ - | \$ - |
| 8.3 | Primary Line Relays (87L): SEL-411L | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.4 | Backup Line Relays (87L): GE L90 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.5 | RTU Panel A: SEL-2240 Axion, SEL-2730M ENET SW., SEL-2407 GPS, Modem, SEL-2523 Annu | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.6 | RTU Panel B: SEL-2730M Ethernet Switch, SEL-2407 GPS Clock, SEL-2523 Annnunciator | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.7 | HMI Panel | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.14 | 125VDC Battery System | | LS | 25,000.00 | 22,750.00 | 9,750.00 | \$ - | \$ - | \$ - | \$ - |
| 8.15 | Control house AC Panel | | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ - | \$ - | \$ - | \$ - |
| 8.16 | Control House DC Panel | | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ - | \$ - | \$ - | \$ - |
| 8.17 | Generator | | EA | 130,000.00 | 72,800.00 | 31,200.00 | \$ - | \$ - | \$ - | \$ - |
| TOTAL - CONTROL ENCLOSURE | | | | | | | \$ 80,156 | \$ 64,125 | \$ 16,031 | \$ 160,312 |
| 12 - Station 36a Sprain Brook HVDC 1200MW Converter Station | | | | | | | \$ 182,584,228 | \$ 66,379,647 | \$ 67,503,451 | \$ 316,467,326 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 9.1 | Mob / Demob | 1.0 | LS | | 485,908.43 | 208,246.47 | \$ - | \$ 485,908 | \$ 208,246 | \$ 694,155 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 9.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 164,673.26 | | \$ - | \$ 164,673 | \$ - | \$ 164,673 |
| 9.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1 | LS | | 658,693.03 | | \$ - | \$ 658,693 | \$ - | \$ 658,693 |
| 9.4 | Utility PM and Project Oversight | 1 | LS | | 164,673.26 | | \$ - | \$ 164,673 | \$ - | \$ 164,673 |
| 9.5 | Site Accommodation, Facilities, Storage | 1 | LS | 164,673.26 | | | \$ 164,673 | \$ - | \$ - | \$ 164,673 |
| | Engineering | | | | | | | | | |
| 9.6 | Design Engineering | 1.00 | LS | | 1,317,386.06 | | \$ - | \$ 1,317,386 | \$ - | \$ 1,317,386 |
| 9.7 | LiDAR /GPR | 1.00 | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.8 | Geotech | 5.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 13,650 | \$ 9,100 | \$ 22,750 |
| 9.9 | Surveying/Staking | 1.00 | Site | | 115,271.28 | | \$ - | \$ 115,271 | \$ - | \$ 115,271 |
| | Testing & Commissioning | | | | | | | | | |
| 9.10 | Testing & Commissioning of SS and Equipment | 1.00 | LS | | 617,524.71 | | \$ - | \$ 617,525 | \$ - | \$ 617,525 |
| | Permitting and Additional Costs | | | | | | | | | |
| 9.11 | Physical Security | 1.00 | LS | | 6,546.96 | | \$ - | \$ 6,547 | \$ - | \$ 6,547 |
| 9.12 | Environmental Licensing & Permitting Costs & related legal cost | 1.00 | LS | | 164,673.26 | | \$ - | \$ 164,673 | \$ - | \$ 164,673 |
| 9.13 | Environmental-special studies/investigation | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.14 | Warranties / LOC's | 1.00 | LS | | 49,401.98 | | \$ - | \$ 49,402 | \$ - | \$ 49,402 |
| 9.15 | Laydown Lease | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.16 | Real Estate (Acquisition) | 1.00 | LS | | | 5,558,096.00 | \$ - | \$ - | \$ 5,558,096 | \$ 5,558,096 |
| 9.17 | Legal Fees (Real estate) | 1.00 | LS | | - | 166,742.88 | \$ - | \$ - | \$ 166,743 | \$ 166,743 |
| 9.18 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 9.19 | Bonds | 1 | LS | | - | \$ 9,080,000 | \$ - | \$ - | \$ 9,080,000 | \$ 9,080,000 |
| 9.20 | Sales Tax on Materials | 8.80% | LS | 182,584,227.65 | | | \$ 16,067,412 | \$ - | \$ - | \$ 16,067,412 |
| 9.21 | Fees for permits, including roadway, railroad, building or other local permits | 1.00 | LS | | 316,467.33 | | \$ - | \$ 316,467 | \$ - | \$ 316,467 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 16,232,085 | \$ 4,074,870 | \$ 15,022,185 | \$ 35,329,140 |

NEXTera Energy- TO41 Core 6

13- Station 30a New Northport HVDC 1200MW Converter Station

Total: \$ 448,740,863

| NEXTera Energy- TO41 Core 6 | | | | |
|---|-----------------|---------------|---------------|----------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| 13- Station 30a New Northport HVDC 1200MW Converter Station | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | \$ 1,491,747 | \$ 1,285,611 | \$ 729,878 | \$ 3,507,235 |
| 2. SUBSTATION FOUNDATIONS | \$ - | \$ - | \$ - | \$ - |
| 3. SUBSTATION STRUCTURES | \$ - | \$ - | \$ - | \$ - |
| 4. MAJOR EQUIPTMENT | \$ 180,000,000 | \$ 60,000,000 | \$ 60,000,000 | \$ 300,000,000 |
| 5. LOW VOLTAGE & CONTROL CABLE | \$ - | \$ - | \$ - | \$ - |
| 6. CONDUIT & CABLE TRENCH | \$ 6,063,620 | \$ 3,718,325 | \$ 2,122,341 | \$ 11,904,286 |
| 7. GROUND GRID | \$ 225,017 | \$ 162,661 | \$ 38,019 | \$ 425,697 |
| 8. CONTROL ENCLOSURE | \$ 293,437 | \$ 234,750 | \$ 58,687 | \$ 586,875 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 16,714,737 | \$ 3,872,639 | \$ 10,404,395 | \$ 30,991,771 |
| Turnkey cost (HVDC, GIS) | \$ 180,000,000 | \$ 60,000,000 | \$ 60,000,000 | \$ 300,000,000 |
| Non-Turnkey cost | \$ 24,788,558 | \$ 9,273,986 | \$ 13,353,320 | \$ 47,415,864 |
| SUBTOTAL (Costs): | \$ 204,788,558 | \$ 69,273,986 | \$ 73,353,320 | \$ 347,415,864 |
| CONTRACTOR MARK-UP (OH&P) | \$ 15,261,940 | \$ 5,269,317 | \$ 6,003,598 | \$ 26,534,855 |
| SUBTOTAL: | \$ 220,050,498 | \$ 74,543,303 | \$ 79,356,918 | \$ 373,950,719 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 44,010,100 | \$ 14,908,661 | \$ 15,871,384 | \$ 74,790,144 |
| TOTAL: | \$ 264,060,598 | \$ 89,451,964 | \$ 95,228,301 | \$ 448,740,863 |

| Description of Work: Construct a new Northport 1200MW converter station, with a transition from 320kV DC to 138kV AC and tie into the new Northport 138kV GIS with three 138kV lines. | | | | | | | | | | |
|---|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
| 13- Station 30a New Northport HVDC 1200MW Converter Station | | | | | | | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | | | | |
| 1.1 | Site Clearing | 5.0 | ACRE | - | 21,000.00 | 14,000.00 | \$ - | \$ 105,000 | \$ 70,000 | \$ 175,000 |
| 1.2 | Demolition | 0 | ACRE | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 1.3 | New Access Road - 20' | 2,200 | SY | 4.85 | 7.20 | 4.80 | \$ 10,670 | \$ 15,840 | \$ 10,560 | \$ 37,070 |
| 1.4 | Strip and Dispose Top Soil | 8,067 | CY | | 24.50 | 10.50 | \$ - | \$ 197,633 | \$ 84,700 | \$ 282,333 |
| 1.5 | Site Grading- Excavation for Substation Pad | 24,200 | CY | | 9.00 | 6.00 | \$ - | \$ 217,800 | \$ 145,200 | \$ 363,000 |
| 1.6 | Site Grading- Excavation for Substation Pad-Hauling and disposal | 13,068 | CY | | 21.00 | 9.00 | \$ - | \$ 274,428.00 | \$ 117,612.00 | \$ 392,040.00 |
| 1.7 | Site Grading- Fill for Substation Pad (site borrow, compacted in place) | 19,602 | CY | | 2.40 | 1.60 | \$ - | \$ 47,045 | \$ 31,363 | \$ 78,408 |
| 1.8 | Site Grading -Fill for Substation Pad (import, compacted in place) | 13,068 | CY | 25.00 | 2.40 | 1.60 | \$ 326,700 | \$ 31,363 | \$ 20,909 | \$ 378,972 |
| 1.9 | Install substation 8" pad base | 12,100 | SY | 11.00 | 6.00 | 4.00 | \$ 133,100 | \$ 72,600 | \$ 48,400 | \$ 254,100 |
| 1.10 | Site Surfacing - Aggregate 6" Thick | 18,150 | SY | 16.50 | 4.50 | 3.00 | \$ 299,475 | \$ 81,675 | \$ 54,450 | \$ 435,600 |
| 1.11 | 7' Station Fence w/ Barbed Wire & Grounding | 1,922 | LF | 13.85 | 13.85 | 6.92 | \$ 26,616 | \$ 26,616 | \$ 13,308 | \$ 66,540 |
| 1.12 | 25' Slide Gate & Grounding | 2 | EA | 8,100.00 | 3,245.00 | 1,305.00 | \$ 16,200 | \$ 6,490 | \$ 2,610 | \$ 25,300 |
| 1.13 | 4' Pedestrian gate | 2 | EA | 2,500.00 | 1,000.00 | 350.00 | \$ 5,000 | \$ 2,000 | \$ 700 | \$ 7,700 |
| 1.14 | Storm drain-15" HDPE, INFILTRATION TRENCH, INLET and Hydrodynamic Separator | 1 | LS | 625,766.40 | 161,280.00 | 106,545.60 | \$ 625,766 | \$ 161,280 | \$ 106,546 | \$ 893,592 |
| 1.15 | Seeding | 16,480 | SF | 1.50 | 1.50 | 1.00 | \$ 24,720 | \$ 24,720 | \$ 16,480 | \$ 65,920 |
| 1.16 | Erosion Control-Silt fence install & remove | 3,171 | LF | 2.41 | 3.16 | 0.72 | \$ 7,643 | \$ 10,021 | \$ 2,283 | \$ 19,947 |
| 1.17 | Temporary fencing | 2,114 | LF | 7.50 | 5.25 | 2.25 | \$ 15,857 | \$ 11,100 | \$ 4,757 | \$ 31,713 |
| 1.18 | Substation entrance with asphalt | | SY | 19.50 | 26.00 | 19.50 | \$ - | \$ - | \$ - | \$ - |
| 1.19 | Concrete curb | | LF | 26.00 | 27.30 | 11.70 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | \$ 1,491,747 | \$ 1,285,611 | \$ 729,878 | \$ 3,507,235 |
| 2. SUBSTATION FOUNDATIONS | | | | | | | | | | |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--------------------------|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|------------|
| 2.1 | 345kV, Lightning mast foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | 345kV, A Frame 70' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | 345kV, H Frame -SHARED COLUMN (3 BAY) | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.4 | 345kV, Bus support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.5 | 345kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.6 | 345kV, Bus support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | 345kV, GIS air terminal | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | 345kV, GIS support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.9 | 345kV, GIS support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.10 | 345kV, GIS Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | 345kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.12 | 345kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.13 | 345kV, SSVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.14 | 345kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.15 | 345/138kV, Single-Phase 720/900/1200MVA Power Transformer with oil containmenet | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.16 | 345kV, Shunt Reactor with oil containment-150MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.17 | 345kV, Shunt Reactor with oil containment-100MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.18 | 345kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | 345kV, Circuit Breaker (PASS) | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.20 | 345kV, Circuit Breaker (GIS), outdoor rated | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.21 | 345kV, Surge arrester | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.22 | 345/138 Kv, Control Enclosure-BLDG with generator pad | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.23 | 345kV, GIS Enclosure-BLDG | | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.24 | HVDC VSC Converter Station -DC Converter Hall | | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.25 | HVDC VSC Converter Station -Control Building | | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.26 | HVDC VSC Converter Station -Cooler Bank | | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.27 | HVDC VSC Converter Station -Storage Builiding | | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.28 | HVDC VSC Converter Station-Network AC harmonic filters | | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.29 | HVDC VSC Converter Station -AC PLC filter area | | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.30 | HVDC VSC Converter Station-Transformer area | | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.31 | HVDC VSC Converter Station- AIS equipment | | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.32 | 138kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.33 | 138kV, Dead-Tank Breaker | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.34 | 138kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.35 | 138kV, Bus support-1 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.36 | 138kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.37 | 138kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.38 | 138kV, Surge arrester | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.39 | 138kV, H Frame H Frame -SHARED COLUMN (3 BAY) | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.40 | Steel grating and support beams-transformer moat | 0 | LB | 2.73 | 1.17 | 0.50 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| TOTAL - 345KV FOUNDATION | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 3. SUBSTATION STRUCTURES | | | | | | | | | | |
| 3.1 | 345kV, Lightning mast foundation | 0 | EA | 23,400.00 | 14,040.00 | 9,360.00 | \$ - | \$ - | \$ - | \$ - |
| 3.2 | 345kV, A Frame 70' | 0 | EA | 48,100.00 | 28,860.00 | 19,240.00 | \$ - | \$ - | \$ - | \$ - |
| 3.3 | 345kV, H Frame -SHARED COLUMN (3 BAY) | 0 | EA | 64,350.00 | 38,610.00 | 25,740.00 | \$ - | \$ - | \$ - | \$ - |
| 3.4 | 345kV, Bus support-3 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | 345kV, Bus support-3 Ph, low | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | 345kV, Bus support-1 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | 345kV, GIS air terminal | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | 345kV, GIS support-1 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | 345kV, GIS support-3 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | 345kV, GIS Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.11 | 345kV, Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.12 | 345kV, CCVT | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.13 | 345kV, SSVT | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.14 | 345kV, Disconnect Switch | 0 | EA | 19,240.00 | 11,544.00 | 7,696.00 | \$ - | \$ - | \$ - | \$ - |
| 3.15 | 345kV, Surge arrester | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.16 | 138kV, Bus support-3 Ph, low | 0 | EA | 4,173.00 | 2,879.76 | 1,919.84 | \$ - | \$ - | \$ - | \$ - |
| 3.17 | 138kV, Bus support-1 Ph, low | 0 | EA | 2,782.00 | 1,919.84 | 1,279.89 | \$ - | \$ - | \$ - | \$ - |
| 3.18 | 138kV, Disconnect Switch | 0 | EA | | | | | | | |
| 3.19 | 138kV, Cable sealing end | 0 | EA | 4,066.40 | 1,443.00 | 962.00 | \$ - | \$ - | \$ - | \$ - |
| 3.20 | 138kV, Surge arrester | 0 | EA | 4,066.40 | 1,443.00 | 962.00 | \$ - | \$ - | \$ - | \$ - |
| 3.21 | 138kV, H Frame H Frame -SHARED COLUMN (3 BAY) | 0 | EA | 45,045.00 | 27,027.00 | 18,018.00 | \$ - | \$ - | \$ - | \$ - |
| 3.22 | AL. Bus Tubing, 5" SCH 80 | | LF | 25.00 | 184.94 | 123.29 | \$ - | \$ - | \$ - | \$ - |
| 3.23 | AL. Bus fittings | | LS | 36,300.00 | 36,300.00 | 18,150.00 | \$ - | \$ - | \$ - | \$ - |
| 3.24 | HVDC VSC Converter Station -DC Equipment stands | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.25 | HVDC VSC Converter Station-AC Switch Yard Equipment stands | | EA | | | | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|---|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------|
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SUBSTATION STRUCTURES & GAS-INSULATED CONDUCTOR | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 4. MAJOR EQUIPMENT | | | | | | | | | | |
| 4.1 | 345Kv, GIS indoor | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.2 | 345kV, GIS air terminal | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.3 | 345kV, GIS- Cable sealing end | 0 | EA | 27,144.00 | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.4 | 345kV, CCVT | 0 | EA | | 15,941.99 | 6,832.28 | \$ - | \$ - | \$ - | \$ - |
| 4.5 | 345kV, SSVT | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.6 | 345kV, Disconnect Switch | 0 | EA | 57,720.00 | 34,632.00 | 23,088.00 | \$ - | \$ - | \$ - | \$ - |
| 4.7 | 345/138KV, Single-Phase 720/900/1200MVA Power Transformer with oil containmenet | 0 | EA | 9,980,000.00 | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.8 | Transport & Testing- Transformer | 0 | EA | | 1,170,400.00 | 501,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.9 | 345kV, Shunt Reactor with oil containment-150MVAR | 0 | EA | 2,629,516.50 | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.10 | 345kV, Shunt Reactor with oil containment-100MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.11 | Transport & Testing- Shunt Reactor | 0 | EA | | 339,150.00 | 145,350.00 | \$ - | \$ - | \$ - | \$ - |
| 4.12 | 345kV, Phase Angle Regulator | 0 | EA | 16,120,693.00 | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.13 | Transport & Testing- Phase Angle Regulating Transformer, 345kV | 0 | EA | | 715,400.00 | 306,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.14 | 345kV, Circuit Breaker (PASS) | 0 | EA | | 57,239.00 | 24,531.00 | \$ - | \$ - | \$ - | \$ - |
| 4.15 | 345kV, Circuit Breaker (GIS), outdoor rated | 0 | EA | 1,341,857.17 | 805,114.30 | 536,742.87 | \$ - | \$ - | \$ - | \$ - |
| 4.16 | 345kV, surge Arrester | 0 | EA | | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.17 | 345kV, GIS Cable sealing end | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.18 | 138kV, Phase Angle Regulator | 0 | EA | 11,902,178.00 | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Transport & Testing- Phase Angle Regulating Transformer, 138kV | 0 | EA | | 701,400.00 | 300,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.20 | 138kV, Dead-Tank Breaker | 0 | EA | 183,000.00 | 13,559.00 | 5,811.00 | \$ - | \$ - | \$ - | \$ - |
| 4.21 | 138kV, Disconnect Switch | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.22 | 138kV, Cable sealing end | 0 | EA | 11,600.00 | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.23 | 138kV, Surge arrester | 0 | EA | 4,446.00 | 4,200.00 | 1,800.00 | \$ - | \$ - | \$ - | \$ - |
| 4.24 | Station service transformers- 120/208v-250VA | 0 | EA | 260,000.00 | 45,500.00 | 19,500.00 | \$ - | \$ - | \$ - | \$ - |
| 4.25 | HVDC 1200MW Monopoles | 1.0 | EA | 180,000,000.00 | 60,000,000.00 | 60,000,000.00 | \$ 180,000,000.00 | \$ 60,000,000.00 | \$ 60,000,000.00 | \$ 300,000,000 |
| 4.26 | HVDC VSC Converter Station -DC transducer | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.27 | HVDC VSC Converter Station -Converter phase reactor | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.28 | HVDC VSC Converter Station -Cooling fans | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.29 | HVDC VSC Converter Station- Converter Transformer | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.30 | HVDC VSC Converter Station -Converter enclosure | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.31 | HVDC VSC Converter Station -Control enclosure | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.32 | HVDC VSC Converter Station -Storage building | | | | | | | | | |
| 4.32 | 345kV Gas-Insulated Bus Conductor (Ourdoor) | | LF | 550.00 | 275.00 | 82.50 | \$ - | \$ - | \$ - | \$ - |
| 4.33 | 345kV Gas-Insulated Bus Conductor-elbow (Ourdoor) | | EA | 2,500.00 | 1,250.00 | 375.00 | \$ - | \$ - | \$ - | \$ - |
| 4.28 | Transport & Testing- GIL | | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| TOTAL - MAJOR EQUIPMENT | | | | | | | \$ 180,000,000 | \$ 60,000,000 | \$ 60,000,000 | \$ 300,000,000 |
| 5. LOW VOLTAGE & CONTROL CABLE | | | | | | | | | | |
| 5.1 | Control Cables | | LF | 5.30 | 1.43 | 0.29 | \$ - | \$ - | \$ - | \$ - |
| 5.2 | | | LF | 5.30 | 1.43 | 0.29 | \$ - | \$ - | \$ - | \$ - |
| TOTAL - LOW VOLTAGE & CONTROL CABLE | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 6. CONDUIT & CABLE TRENCH | | | | | | | | | | |
| 6.1 | Conduit, PVC, 6", SCH 40 | | LF | 20.70 | 13.28 | 6.64 | \$ - | \$ - | \$ - | \$ - |
| 6.2 | Conduit, PVC, 4", SCH 40 | 0 | LF | 11.15 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.3 | Conduit, PVC, 3", SCH 40 | | LF | 8.10 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.4 | Conduit, PVC, 2", SCH 40 | | LF | 3.95 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.5 | Conduit, PVC, 1", SCH 40 | | LF | 1.90 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.6 | Cable Trench | | LF | 266.50 | 53.04 | 13.26 | \$ - | \$ - | \$ - | \$ - |
| 6.8 | 138kV UG- Conduit | 7,020 | LF | 266.73 | 202.15 | 100.00 | \$ 1,872,451 | \$ 1,419,068 | \$ 702,034 | \$ 3,993,554 |
| 6.9 | 138kV UG- Cable | 22,113 | LF | 145.00 | 87.00 | 58.00 | \$ 3,206,385 | \$ 1,923,831 | \$ 1,282,554 | \$ 6,412,770 |
| 6.10 | 138kV UG- Termination | 30 | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ 834,150 | \$ 295,394 | \$ 84,398 | \$ 1,213,943 |
| 6.13 | Fiber Optic Cable | 7,371 | LF | 7.40 | 3.33 | 2.22 | \$ 54,523 | \$ 24,550 | \$ 16,367 | \$ 95,440 |
| 6.14 | Ground Continuity Conductor | 7,371 | LF | 13.04 | 7.53 | 5.02 | \$ 96,110 | \$ 55,482 | \$ 36,988 | \$ 188,580 |
| TOTAL - CONDUIT & CABLE TRENCH | | | | | | | \$ 6,063,620 | \$ 3,718,325 | \$ 2,122,341 | \$ 11,904,286 |
| 7. GROUND GRID | | | | | | | | | | |
| 7.1 | Cable, 4/0 AWG Bare Copper, 7 Strand Ground Conductor | 23,100 | LF | 2.09 | 3.42 | 1.46 | \$ 48,302 | \$ 78,893 | \$ 33,811 | \$ 161,007 |
| 7.2 | Caweld, DSA, 4/0 , T, CROSS | 612 | EA | 165.00 | 75.00 | | \$ 100,980 | \$ 45,900 | \$ - | \$ 146,880 |
| 7.3 | Ground Rod, 3/4" x 15' | 561 | EA | 135.00 | 67.50 | 7.50 | \$ 75,735 | \$ 37,868 | \$ 4,208 | \$ 117,810 |
| TOTAL - GROUND GRID | | | | | | | \$ 225,017 | \$ 162,661 | \$ 38,019 | \$ 425,697 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|---|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------|
| 8. CONTROL ENCLOSURE | | | | | | | | | | |
| 8.1 | 345/138 Kv, Control Enclosure-BLDG with generator pad | 0 | EA | 964,411.37 | 675,087.96 | 289,323.41 | \$ - | \$ - | \$ - | \$ - |
| 8.2 | 345kV, GIS Enclosure-BLDG | 0 | EA | 2,211,495.05 | 1,548,046.53 | 663,448.51 | \$ - | \$ - | \$ - | \$ - |
| 8.3 | Primary Line Relays (87L): SEL-411L | 3 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 63,984 | \$ 51,187 | \$ 12,797 | \$ 127,969 |
| 8.4 | Backup Line Relays (87L): GE L90 | 3 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 63,984 | \$ 51,187 | \$ 12,797 | \$ 127,969 |
| 8.5 | RTU Panel A: SEL-2240 Axion, SEL-2730M ENET SW., SEL-2407 GPS, Modem, SEL-2523 Annunci | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.6 | RTU Panel B: SEL-2730M Ethernet Switch, SEL-2407 GPS Clock, SEL-2523 Annunciator | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.7 | HMI Panel | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.8 | Primary Line Relays (87L): SEL-411L | 2 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |
| 8.9 | Backup Line Relays (87L): GE L90 | 2 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |
| 8.10 | Primary Bus Differential Relays: SEL-487B | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.11 | Backup Bus Differential Relays: GE B90 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.14 | 125VDC Battery System | | LS | 25,000.00 | 22,750.00 | 9,750.00 | \$ - | \$ - | \$ - | \$ - |
| 8.15 | Control house AC Panel | | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ - | \$ - | \$ - | \$ - |
| 8.16 | Control House DC Panel | | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ - | \$ - | \$ - | \$ - |
| 8.17 | Generator | | EA | 130,000.00 | 72,800.00 | 31,200.00 | \$ - | \$ - | \$ - | \$ - |
| TOTAL - CONTROL ENCLOSURE | | | | | | | \$ 293,437 | \$ 234,750 | \$ 58,687 | \$ 586,875 |
| 13- Station 30a New Northport HVDC 1200MW Converter Station | | | | | | | \$ 188,073,821 | \$ 65,401,347 | \$ 62,948,925 | \$ 316,424,093 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 9.1 | Mob / Demob | 1.0 | LS | | 292,259.53 | 125,254.08 | \$ - | \$ 292,260 | \$ 125,254 | \$ 417,514 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 9.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 164,240.93 | | \$ - | \$ 164,241 | \$ - | \$ 164,241 |
| 9.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1 | LS | | 656,963.72 | | \$ - | \$ 656,964 | \$ - | \$ 656,964 |
| 9.4 | Utility PM and Project Oversight | 1 | LS | | 164,240.93 | | \$ - | \$ 164,241 | \$ - | \$ 164,241 |
| 9.5 | Site Accommodation, Facilities, Storage | 1 | LS | 164,240.93 | | | \$ 164,241 | \$ - | \$ - | \$ 164,241 |
| | Engineering | | | | | | | | | |
| 9.6 | Design Engineering | 1.00 | LS | | 1,313,927.44 | | \$ - | \$ 1,313,927 | \$ - | \$ 1,313,927 |
| 9.7 | LiDAR /GPR | 1.00 | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.8 | Geotech | 5.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 13,650 | \$ 9,100 | \$ 22,750 |
| 9.9 | Surveying/Staking | 1.00 | Site | | 114,968.65 | | \$ - | \$ 114,969 | \$ - | \$ 114,969 |
| | Testing & Commissioning | | | | | | | | | |
| 9.10 | Testing & Commissioning of SS and Equipment | 1.00 | LS | | 615,903.49 | | \$ - | \$ 615,903 | \$ - | \$ 615,903 |
| | Permitting and Additional Costs | | | | | | | | | |
| 9.11 | Physical Security | 1.00 | LS | | 6,546.96 | | \$ - | \$ 6,547 | \$ - | \$ 6,547 |
| 9.12 | Environmental Licensing & Permitting Costs & related legal cost | 1.00 | LS | | 164,240.93 | | \$ - | \$ 164,241 | \$ - | \$ 164,241 |
| 9.13 | Environmental-special studies/investigation | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.14 | Warranties / LOC's | 1.00 | LS | | 49,272.28 | | \$ - | \$ 49,272 | \$ - | \$ 49,272 |
| 9.15 | Laydown Lease | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.16 | Real Estate (Acquisition) | 1.00 | LS | | - | 1,271,884.00 | \$ - | \$ - | \$ 1,271,884 | \$ 1,271,884 |
| 9.17 | Legal Fees (Real estate) | 1.00 | LS | | - | 38,156.52 | \$ - | \$ - | \$ 38,157 | \$ 38,157 |
| 9.18 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 9.19 | Bonds | 1 | LS | | - | \$ 8,960,000 | \$ - | \$ - | \$ 8,960,000 | \$ 8,960,000 |
| 9.20 | Sales Tax on Materials | 8.80% | LS | 188,073,820.71 | | | \$ 16,550,496 | \$ - | \$ - | \$ 16,550,496 |
| 9.21 | Fees for permits, including roadway, railroad, building or other local permits | 1.00 | LS | | 316,424.09 | | \$ - | \$ 316,424 | \$ - | \$ 316,424 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 16,714,737 | \$ 3,872,639 | \$ 10,404,395 | \$ 30,991,771 |

NEXTera Energy- TO41 Core 6

14 - Northport 138kV GIS Substation

Total: \$ 40,126,906

| NEXTera Energy- TO41 Core 6 | | | | |
|--|-----------------|---------------|--------------|---------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| 14 - Northport 138kV GIS Substation | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | \$ 423,784 | \$ 299,491 | \$ 171,133 | \$ 894,409 |
| 2. SUBSTATION FOUNDATIONS | \$ 344,904 | \$ 394,176 | \$ 246,360 | \$ 985,439 |
| 3. SUBSTATION STRUCTURES | \$ - | \$ - | \$ - | \$ - |
| 4. MAJOR EQUIPTMENT | \$ 7,165,000 | \$ 4,299,000 | \$ 2,866,000 | \$ 14,330,000 |
| 5. LOW VOLTAGE & CONTROL CABLE | \$ - | \$ - | \$ - | \$ - |
| 6. CONDUIT & CABLE TRENCH | \$ 2,658,505 | \$ 1,489,519 | \$ 795,356 | \$ 4,943,380 |
| 7. GROUND GRID | \$ 31,301 | \$ 22,409 | \$ 5,136 | \$ 58,846 |
| 8. CONTROL ENCLOSURE | \$ 1,925,705 | \$ 1,502,309 | \$ 534,896 | \$ 3,962,909 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 1,212,779 | \$ 2,378,384 | \$ 1,029,353 | \$ 4,620,516 |
| Turnkey cost (HVDC, GIS) | \$ 7,165,000 | \$ 4,299,000 | \$ 2,866,000 | \$ 14,330,000 |
| Non-Turnkey cost | \$ 6,596,977 | \$ 6,086,288 | \$ 2,782,234 | \$ 15,465,499 |
| SUBTOTAL (Costs): | \$ 13,761,977 | \$ 10,385,288 | \$ 5,648,234 | \$ 29,795,499 |
| CONTRACTOR MARK-UP (OH&P) | \$ 1,617,356 | \$ 1,353,472 | \$ 672,762 | \$ 3,643,590 |
| SUBTOTAL: | \$ 15,379,333 | \$ 11,738,760 | \$ 6,320,996 | \$ 33,439,088 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 3,075,867 | \$ 2,347,752 | \$ 1,264,199 | \$ 6,687,818 |
| TOTAL: | \$ 18,455,200 | \$ 14,086,511 | \$ 7,585,195 | \$ 40,126,906 |

Description of Work: Construct a new Northport 138kV GIS substation adjacent to the existing Northport 138kV substation. Tie the existing Pilgrim-Northport 138kV lines, the new 138kV lines to Northport HVDC station, and the existing Northport 138kV substation into the 138kV breaker-and-a-half bus configuration.

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|--------------|
| 14 - Northport 138kV GIS Substation | | | | | | | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | | | | |
| 1.1 | Site Clearing | 1.0 | ACRE | - | 21,000.00 | 14,000.00 | \$ - | \$ 20,549 | \$ 13,699 | \$ 34,249 |
| 1.2 | Demolition | 0 | ACRE | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 1.3 | New Access Road - 20' | 1,105 | SY | 4.85 | 7.20 | 4.80 | \$ 5,361 | \$ 7,958 | \$ 5,306 | \$ 18,625 |
| 1.4 | Strip and Dispose Top Soil | 1,579 | CY | | 24.50 | 10.50 | \$ - | \$ 38,678 | \$ 16,576 | \$ 55,255 |
| 1.5 | Site Grading- Excavation for Substation Pad | 4,736 | CY | | 9.00 | 6.00 | \$ - | \$ 42,625 | \$ 28,417 | \$ 71,042 |
| 1.6 | Site Grading- Excavation for Substation Pad-Hauling and disposal | 2,558 | CY | | 21.00 | 9.00 | \$ - | \$ 53,707.50 | \$ 23,017.50 | \$ 76,725.00 |
| 1.7 | Site Grading- Fill for Substation Pad (site borrow, compacted in place) | 3,836 | CY | | 2.40 | 1.60 | \$ - | \$ 9,207 | \$ 6,138 | \$ 15,345 |
| 1.8 | Site Grading -Fill for Substation Pad (import, compacted in place) | 2,558 | CY | 25.00 | 2.40 | 1.60 | \$ 63,938 | \$ 6,138 | \$ 4,092 | \$ 74,168 |
| 1.9 | Install substation 8" pad base | 2,368 | SY | 11.00 | 6.00 | 4.00 | \$ 26,049 | \$ 14,208 | \$ 9,472 | \$ 49,729 |
| 1.10 | Site Surfacing - Aggregate 6" Thick | 3,552 | SY | 16.50 | 4.50 | 3.00 | \$ 58,609 | \$ 15,984 | \$ 10,656 | \$ 85,250 |
| 1.11 | 7' Station Fence w/ Barbed Wire & Grounding | 642 | LF | 13.85 | 13.85 | 6.92 | \$ 8,890 | \$ 8,890 | \$ 4,445 | \$ 22,226 |
| 1.12 | 25' Slide Gate & Grounding | 2 | EA | 8,100.00 | 3,245.00 | 1,305.00 | \$ 16,200 | \$ 6,490 | \$ 2,610 | \$ 25,300 |
| 1.13 | 4' Pedestrian gate | 2 | EA | 2,500.00 | 1,000.00 | 350.00 | \$ 5,000 | \$ 2,000 | \$ 700 | \$ 7,700 |
| 1.14 | Storm drain-15" HDPE, INFILTRATION TRENCH, INLET and Hydrodynamic Separator | 1 | LS | 223,488.00 | 57,600.00 | 38,052.00 | \$ 223,488 | \$ 57,600 | \$ 38,052 | \$ 319,140 |
| 1.15 | Seeding | 5,600 | SF | 1.50 | 1.50 | 1.00 | \$ 8,400 | \$ 8,400 | \$ 5,600 | \$ 22,400 |
| 1.16 | Erosion Control-Silt fence install & remove | 1,059 | LF | 2.41 | 3.16 | 0.72 | \$ 2,553 | \$ 3,347 | \$ 763 | \$ 6,663 |
| 1.17 | Temporary fencing | 706 | LF | 7.50 | 5.25 | 2.25 | \$ 5,297 | \$ 3,708 | \$ 1,589 | \$ 10,593 |
| 1.18 | Substation entrance with asphalt | | SY | 19.50 | 26.00 | 19.50 | \$ - | \$ - | \$ - | \$ - |
| 1.19 | Concrete curb | | LF | 26.00 | 27.30 | 11.70 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|------------|
| | | | | | | | | | | |
| TOTAL - SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | \$ 423,784 | \$ 299,491 | \$ 171,133 | \$ 894,409 |
| 2. SUBSTATION FOUNDATIONS | | | | | | | | | | |
| 2.1 | 345kV, Lightning mast foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | 345kV, A Frame 70' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | 345kV, H Frame -SHARED COLUMN (3 BAY) | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.4 | 345kV, Bus support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.5 | 345kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.6 | 345kV, Bus support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | 345kV, GIS air terminal | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | 345kV, GIS support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.9 | 345kV, GIS support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.10 | 345kV, GIS Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | 345kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.12 | 345kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.13 | 345kV, SSVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.14 | 345kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.15 | 345/138KV, Single-Phase 720/900/1200MVA Power Transformer with oil containenet | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.16 | 345kV, Shunt Reactor with oil containment-150MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.17 | 345kV, Shunt Reactor with oil containment-100MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.18 | 345kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | 345kV, Circuit Breaker (PASS) | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.20 | 345kV, Circuit Breaker (GIS), outdoor rated | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.21 | 345kV, Surge arrester | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.22 | 345/138 Kv, Control Enclosure-BLDG with generator pad | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.23 | 345kV, GIS Enclosure-BLDG | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.24 | 138kV, GIS Enclosure-BLDG | 490 | CY | 703.89 | 804.44 | 502.78 | \$ 344,904 | \$ 394,176 | \$ 246,360 | \$ 985,439 |
| 2.25 | 138kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.26 | 138kV, Dead-Tank Breaker | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.27 | 138kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.28 | 138kV, Bus support-1 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.29 | 138kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.30 | 138kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.31 | 138kV, Surge arrester | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.32 | 138kV, H Frame H Frame -SHARED COLUMN (3 BAY) | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.33 | Steel grating and support beams-transformer moat | 0 | LB | 2.73 | 1.17 | 0.50 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| TOTAL - 345KV FOUNDATION | | | | | | | \$ 344,904 | \$ 394,176 | \$ 246,360 | \$ 985,439 |
| 3. SUBSTATION STRUCTURES | | | | | | | | | | |
| 3.1 | 345kV, Lightning mast foundation | 0 | EA | 23,400.00 | 14,040.00 | 9,360.00 | \$ - | \$ - | \$ - | \$ - |
| 3.2 | 345kV, A Frame 70' | 0 | EA | 48,100.00 | 28,860.00 | 19,240.00 | \$ - | \$ - | \$ - | \$ - |
| 3.3 | 345kV, H Frame -SHARED COLUMN (3 BAY) | 0 | EA | 64,350.00 | 38,610.00 | 25,740.00 | \$ - | \$ - | \$ - | \$ - |
| 3.4 | 345kV, Bus support-3 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | 345kV, Bus support-3 Ph, low | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | 345kV, Bus support-1 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | 345kV, GIS air terminal | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | 345kV, GIS support-1 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | 345kV, GIS support-3 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | 345kV, GIS Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.11 | 345kV, Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.12 | 345kV, CCVT | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.13 | 345kV, SSVT | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.14 | 345kV, Disconnect Switch | 0 | EA | 19,240.00 | 11,544.00 | 7,696.00 | \$ - | \$ - | \$ - | \$ - |
| 3.15 | 345kV, Surge arrester | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.16 | 138kV, Bus support-3 Ph, low | 0 | EA | 4,173.00 | 2,879.76 | 1,919.84 | \$ - | \$ - | \$ - | \$ - |
| 3.17 | 138kV, Bus support-1 Ph, low | 0 | EA | 2,782.00 | 1,919.84 | 1,279.89 | \$ - | \$ - | \$ - | \$ - |
| 3.18 | 138kV, Disconnect Switch | 0 | EA | | | | | | | |
| 3.19 | 138kV, Cable sealing end | 0 | EA | 4,066.40 | 1,443.00 | 962.00 | \$ - | \$ - | \$ - | \$ - |
| 3.20 | 138kV, Surge arrester | 0 | EA | 4,066.40 | 1,443.00 | 962.00 | \$ - | \$ - | \$ - | \$ - |
| 3.21 | 138kV, H Frame H Frame -SHARED COLUMN (3 BAY) | 0 | EA | 45,045.00 | 27,027.00 | 18,018.00 | \$ - | \$ - | \$ - | \$ - |
| 3.22 | AL. Bus Tubing, 5" SCH 80 | | LF | 25.00 | 184.94 | 123.29 | \$ - | \$ - | \$ - | \$ - |
| 3.23 | AL. Bus fittings | | LS | 36,300.00 | 36,300.00 | 18,150.00 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SUBSTATION STRUCTURES & GAS-INSULATED CONDUCTOR | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 4. MAJOR EQUIPMENT | | | | | | | | | | |
| 4.1 | 345Kv, GIS indoor | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.2 | 345kV, GIS air terminal | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|-------------------------------------|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 4.3 | 345kV, GIS- Cable sealing end | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.4 | 345kV, CCVT | 0 | EA | | 15,941.99 | 6,832.28 | \$ - | \$ - | \$ - | \$ - |
| 4.5 | 345kV, SSVT | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.6 | 345kV, Disconnect Switch | 0 | EA | 57,720.00 | 34,632.00 | 23,088.00 | \$ - | \$ - | \$ - | \$ - |
| 4.7 | 345/138KV, Single-Phase 720/900/1200MVA Power Transformer with oil containmenet | 0 | EA | 9,980,000.00 | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.8 | Transport & Testing- Transformer | 0 | EA | | 1,170,400.00 | 501,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.9 | 345kV, Shunt Reactor with oil containment-150MVAR | 0 | EA | 2,629,516.50 | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.10 | 345kV, Shunt Reactor with oil containment-100MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.11 | Transport & Testing- Shunt Reactor | 0 | EA | | 339,150.00 | 145,350.00 | \$ - | \$ - | \$ - | \$ - |
| 4.12 | 345kV, Phase Angle Regulator | 0 | EA | 16,120,693.00 | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.13 | Transport & Testing- Phase Angle Regulating Transformer, 345kV | 0 | EA | | 715,400.00 | 306,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.14 | 345kV, Circuit Breaker (PASS) | 0 | EA | | 57,239.00 | 24,531.00 | \$ - | \$ - | \$ - | \$ - |
| 4.15 | 345kV, Circuit Breaker (GIS), outdoor rated | 0 | EA | 1,341,857.17 | 805,114.30 | 536,742.87 | \$ - | \$ - | \$ - | \$ - |
| 4.16 | 345kV, surge Arrester | 0 | EA | | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.17 | 345kV, GIS Cable sealing end | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.18 | 138Kv, GIS indoor | 15 | EA | 477,666.67 | 286,600.00 | 191,066.67 | \$ 7,165,000 | \$ 4,299,000 | \$ 2,866,000 | \$ 14,330,000 |
| 4.19 | 138kV, Phase Angle Regulator | 0 | EA | 11,902,178.00 | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.20 | Transport & Testing- Phase Angle Regulating Transformer, 138kV | 0 | EA | | 701,400.00 | 300,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.21 | 138kV, Dead-Tank Breaker | 0 | EA | 183,000.00 | 13,559.00 | 5,811.00 | \$ - | \$ - | \$ - | \$ - |
| 4.22 | 138kV, Disconnect Switch | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.23 | 138kV, Cable sealing end | 0 | EA | 11,600.00 | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.24 | 138kV, Surge arrester | 0 | EA | 4,446.00 | 4,200.00 | 1,800.00 | \$ - | \$ - | \$ - | \$ - |
| 4.25 | Station service transformers- 120/208v-250VA | 0 | EA | 260,000.00 | 45,500.00 | 19,500.00 | \$ - | \$ - | \$ - | \$ - |
| 4.26 | 345kV Gas-Insulated Bus Conductor (Ourdoor) | | LF | 550.00 | 275.00 | 82.50 | \$ - | \$ - | \$ - | \$ - |
| 4.27 | 345kV Gas-Insulated Bus Conductor-elbow (Ourdoor) | | EA | 2,500.00 | 1,250.00 | 375.00 | \$ - | \$ - | \$ - | \$ - |
| 4.28 | Transport & Testing- GIL | | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| TOTAL - MAJOR EQUIPMENT | | | | | | | \$ 7,165,000 | \$ 4,299,000 | \$ 2,866,000 | \$ 14,330,000 |
| 5. LOW VOLTAGE & CONTROL CABLE | | | | | | | | | | |
| 5.1 | Control Cables | | LF | 5.30 | 1.43 | 0.29 | \$ - | \$ - | \$ - | \$ - |
| 5.2 | | | LF | 5.30 | 1.43 | 0.29 | \$ - | \$ - | \$ - | \$ - |
| TOTAL - LOW VOLTAGE & CONTROL CABLE | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 6. CONDUIT & CABLE TRENCH | | | | | | | | | | |
| 6.1 | Conduit, PVC, 6", SCH 40 | | LF | 20.70 | 13.28 | 6.64 | \$ - | \$ - | \$ - | \$ - |
| 6.2 | Conduit, PVC, 4", SCH 40 | 0 | LF | 11.15 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.3 | Conduit, PVC, 3", SCH 40 | | LF | 8.10 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.4 | Conduit, PVC, 2", SCH 40 | | LF | 3.95 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.5 | Conduit, PVC, 1", SCH 40 | | LF | 1.90 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.6 | Cable Trench | | LF | 266.50 | 53.04 | 13.26 | \$ - | \$ - | \$ - | \$ - |
| 6.8 | 138kV UG- Conduit | 2,449 | LF | 266.73 | 202.15 | 100.00 | \$ 653,224 | \$ 495,057 | \$ 244,912 | \$ 1,393,193 |
| 6.9 | 138kV UG- Cable | 7,714 | LF | 145.00 | 87.00 | 58.00 | \$ 1,118,581 | \$ 671,148 | \$ 447,432 | \$ 2,237,162 |
| 6.10 | 138kV UG- Termination | 30 | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ 834,150 | \$ 295,394 | \$ 84,398 | \$ 1,213,943 |
| 6.13 | Fiber Optic Cable | 2,571 | LF | 7.40 | 3.33 | 2.22 | \$ 19,021 | \$ 8,564 | \$ 5,710 | \$ 33,295 |
| 6.14 | Ground Continuity Conductor | 2,571 | LF | 13.04 | 7.53 | 5.02 | \$ 33,529 | \$ 19,355 | \$ 12,904 | \$ 65,788 |
| TOTAL - CONDUIT & CABLE TRENCH | | | | | | | \$ 2,658,505 | \$ 1,489,519 | \$ 795,356 | \$ 4,943,380 |
| 7. GROUND GRID | | | | | | | | | | |
| 7.1 | Cable, 4/0 AWG Bare Copper, 7 Strand Ground Conductor | 3,140 | LF | 2.09 | 3.42 | 1.46 | \$ 6,566 | \$ 10,724 | \$ 4,596 | \$ 21,886 |
| 7.2 | Caweld, DSA, 4/0 , T, CROSS | 91 | EA | 165.00 | 75.00 | | \$ 15,015 | \$ 6,825 | \$ - | \$ 21,840 |
| 7.3 | Ground Rod, 3/4" x 15' | 72 | EA | 135.00 | 67.50 | 7.50 | \$ 9,720 | \$ 4,860 | \$ 540 | \$ 15,120 |
| TOTAL - GROUND GRID | | | | | | | \$ 31,301 | \$ 22,409 | \$ 5,136 | \$ 58,846 |
| 8. CONTROL ENCLOSURE | | | | | | | | | | |
| 8.1 | 345/138 Kv, Control Enclosure-BLDG with generator pad | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 8.2 | 345kV, GIS Enclosure-BLDG | 1 | EA | 878,048.71 | 614,634.10 | 263,414.61 | \$ 878,049 | \$ 614,634 | \$ 263,415 | \$ 1,756,097 |
| 8.3 | Primary Line Relays (87L): SEL-411L | 9 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 191,953 | \$ 153,562 | \$ 38,391 | \$ 383,906 |
| 8.4 | Backup Line Relays (87L): GE L90 | 9 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 191,953 | \$ 153,562 | \$ 38,391 | \$ 383,906 |
| 8.5 | Primary Bay Control: SEL-451 | 5 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 106,641 | \$ 85,312 | \$ 21,328 | \$ 213,281 |
| 8.6 | Backup Bay Control: SEL-451 | 5 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 106,641 | \$ 85,312 | \$ 21,328 | \$ 213,281 |
| 8.7 | Primary Bus Differential Relays: SEL-487B | 3 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 63,984 | \$ 51,187 | \$ 12,797 | \$ 127,969 |
| 8.8 | Backup Bus Differential Relays: GE B90 | 3 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 63,984 | \$ 51,187 | \$ 12,797 | \$ 127,969 |
| 8.9 | RTU Panel A: SEL-2240 Axion, SEL-2730M ENET SW., SEL-2407 GPS, Modem, SEL-2523 Annunci | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.10 | RTU Panel B: SEL-2730M Ethernet Switch, SEL-2407 GPS Clock, SEL-2523 Annunciator | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.11 | HMI Panel | 1 | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ 12,500 | \$ 10,000 | \$ 2,500 | \$ 25,000 |
| 8.14 | 125VDC Battery System | 1 | LS | 25,000.00 | 22,750.00 | 9,750.00 | \$ 25,000 | \$ 22,750 | \$ 9,750 | \$ 57,500 |
| 8.15 | Control house AC Panel | 1 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ 65,000 | \$ 91,000 | \$ 39,000 | \$ 195,000 |
| 8.16 | Control House DC Panel | 1 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ 65,000 | \$ 91,000 | \$ 39,000 | \$ 195,000 |
| 8.17 | Generator | 1 | EA | 130,000.00 | 72,800.00 | 31,200.00 | \$ 130,000 | \$ 72,800 | \$ 31,200 | \$ 234,000 |
| TOTAL - CONTROL ENCLOSURE | | | | | | | \$ 1,925,705 | \$ 1,502,309 | \$ 534,896 | \$ 3,962,909 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|---|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 14 - Northport 138kV GIS Substation | | | | | | | \$ 12,549,198 | \$ 8,006,904 | \$ 4,618,880 | \$ 25,174,983 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 9.1 | Mob / Demob | 1.0 | LS | | 191,127.46 | 81,911.77 | \$ - | \$ 191,127 | \$ 81,912 | \$ 273,039 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 9.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 108,449.83 | | \$ - | \$ 108,450 | \$ - | \$ 108,450 |
| 9.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1 | LS | | 433,799.31 | | \$ - | \$ 433,799 | \$ - | \$ 433,799 |
| 9.4 | Utility PM and Project Oversight | 1 | LS | | 108,449.83 | | \$ - | \$ 108,450 | \$ - | \$ 108,450 |
| 9.5 | Site Accommodation, Facilities, Storage | 1 | LS | 108,449.83 | | | \$ 108,450 | \$ - | \$ - | \$ 108,450 |
| | Engineering | | | | | | | | | |
| 9.6 | Design Engineering | 1.00 | LS | | 867,598.62 | | \$ - | \$ 867,599 | \$ - | \$ 867,599 |
| 9.7 | LiDAR /GPR | 1.00 | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.8 | Geotech | 5.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 13,650 | \$ 9,100 | \$ 22,750 |
| 9.9 | Surveying/Staking | 1.00 | Site | | 75,914.88 | | \$ - | \$ 75,915 | \$ - | \$ 75,915 |
| | Testing & Commissioning | | | | | | | | | |
| 9.10 | Testing & Commissioning of SS and Equipment | 1.00 | LS | | 406,686.85 | | \$ - | \$ 406,687 | \$ - | \$ 406,687 |
| | Permitting and Additional Costs | | | | | | | | | |
| 9.11 | Physical Security | 1.00 | LS | | 6,546.96 | | \$ - | \$ 6,547 | \$ - | \$ 6,547 |
| 9.12 | Environmental Licensing & Permitting Costs & related legal cost | 1.00 | LS | | 108,449.83 | | \$ - | \$ 108,450 | \$ - | \$ 108,450 |
| 9.13 | Environmental-special studies/investigation | | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.14 | Warranties / LOC's | 1.00 | LS | | 32,534.95 | | \$ - | \$ 32,535 | \$ - | \$ 32,535 |
| 9.15 | Laydown Lease | | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.16 | Real Estate (Acquisition) | 1.00 | LS | | - | 134,312.00 | \$ - | \$ - | \$ 134,312 | \$ 134,312 |
| 9.17 | Legal Fees (Real estate) | 1.00 | LS | | - | 4,029.36 | \$ - | \$ - | \$ 4,029 | \$ 4,029 |
| 9.18 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 9.19 | Bonds | 1 | LS | | - | \$ 800,000 | \$ - | \$ - | \$ 800,000 | \$ 800,000 |
| 9.20 | Sales Tax on Materials | 8.80% | LS | 12,549,198.06 | | | \$ 1,104,329 | \$ - | \$ - | \$ 1,104,329 |
| 9.21 | Fees for permits, including roadway, railroad, building or other local permits | 1.00 | LS | | 25,174.98 | | \$ - | \$ 25,175 | \$ - | \$ 25,175 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 1,212,779 | \$ 2,378,384 | \$ 1,029,353 | \$ 4,620,516 |

NEXTera Energy- TO41 Core 6

15.Pilgrim 138kV Substation Upgrades

Total: \$ 2,036,018

| NEXTera Energy- TO41 Core 6 | | | | | | | | | | |
|--|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|------------|
| | | Material Supply | Labor Supply | Equip Supply | Total | | | | | |
| 15.Pilgrim 138kV Substation Upgrades | | | | | | | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | | \$ - | \$ 24,000 | \$ 16,000 | \$ 40,000 | | | | | |
| 2. SUBSTATION FOUNDATIONS | | \$ 34,758 | \$ 39,723 | \$ 24,827 | \$ 99,308 | | | | | |
| 3. SUBSTATION STRUCTURES | | \$ 45,630 | \$ 59,338 | \$ 37,176 | \$ 142,144 | | | | | |
| 4. MAJOR EQUIPTMENT | | \$ 234,399 | \$ 58,019 | \$ 25,896 | \$ 318,314 | | | | | |
| 5. LOW VOLTAGE & CONTROL CABLE | | \$ 27,017 | \$ 7,306 | \$ 1,461 | \$ 35,784 | | | | | |
| 6. CONDUIT & CABLE TRENCH | | \$ 76,660 | \$ 22,980 | \$ 8,175 | \$ 107,815 | | | | | |
| 7. GROUND GRID | | \$ 2,925 | \$ 2,335 | \$ 610 | \$ 5,871 | | | | | |
| 8. CONTROL ENCLOSURE | | \$ 170,625 | \$ 136,500 | \$ 34,125 | \$ 341,250 | | | | | |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | \$ 63,002 | \$ 233,261 | \$ 51,117 | \$ 347,380 | | | | | |
| SUBTOTAL (Costs): | | \$ 655,016 | \$ 583,463 | \$ 199,387 | \$ 1,437,866 | | | | | |
| CONTRACTOR MARK-UP (OH&P) | | \$ 117,903 | \$ 105,023 | \$ 35,890 | \$ 258,816 | | | | | |
| SUBTOTAL: | | \$ 772,919 | \$ 688,486 | \$ 235,277 | \$ 1,696,682 | | | | | |
| CONTINGENCY ON ENTIRE PROJECT | | \$ 154,584 | \$ 137,697 | \$ 47,055 | \$ 339,336 | | | | | |
| TOTAL: | | \$ 927,503 | \$ 826,183 | \$ 282,333 | \$ 2,036,018 | | | | | |
| Description of Work: Add 1 terminal to Pilgrim 138kV substation to accommodate the new transmission line | | | | | | | | | | |
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
| 10.Shore Road 138kV Substation Upgrades | | | | | | | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | | | | |
| 1.1 | Site Clearing | 0.0 | ACRE | - | 10,800.00 | 7,200.00 | \$ - | \$ - | \$ - | \$ - |
| 1.2 | Demolition | 1 | LS | | 24,000.00 | 16,000.00 | \$ - | \$ 24,000 | \$ 16,000 | \$ 40,000 |
| 1.3 | New Access Road - 20' | 0 | SY | 4.85 | 7.20 | 4.80 | \$ - | \$ - | \$ - | \$ - |
| 1.4 | Strip and Dispose Top Soil | 0 | CY | | 24.50 | 10.50 | \$ - | \$ - | \$ - | \$ - |
| 1.5 | Site Grading- Excavation for Substation Pad | 0 | CY | | 9.00 | 6.00 | \$ - | \$ - | \$ - | \$ - |
| 1.6 | Site Grading- Excavation for Substation Pad-Rock excavation-Hauling and disposal | 0 | CY | | 21.00 | 9.00 | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Site Grading- Fill for Substation Pad (site borrow, compacted in place) | 0 | CY | | 2.40 | 1.60 | \$ - | \$ - | \$ - | \$ - |
| 1.8 | Site Grading -Fill for Substation Pad (import, compacted in place) | 0 | CY | 25.00 | 2.40 | 1.60 | \$ - | \$ - | \$ - | \$ - |
| 1.9 | Blasting | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 1.10 | Install substation 8" pad base | 0 | SY | 11.00 | 6.00 | 4.00 | \$ - | \$ - | \$ - | \$ - |
| 1.11 | Site Surfacing - Aggregate 6" Thick | 0 | SY | 16.50 | 4.50 | 3.00 | \$ - | \$ - | \$ - | \$ - |
| 1.12 | 7' Station Fence w/ Barbed Wire & Grounding | 0 | LF | 13.85 | 13.85 | 6.92 | \$ - | \$ - | \$ - | \$ - |
| 1.13 | 20' Slide Gate & Grounding | 0 | EA | 8,100.00 | 3,245.00 | 1,305.00 | \$ - | \$ - | \$ - | \$ - |
| 1.14 | 4' Pedestrian gate | 0 | EA | 2,500.00 | 1,000.00 | 350.00 | \$ - | \$ - | \$ - | \$ - |
| 1.15 | Storm drain-15" HDPE, INFILTRATION TRENCH, INLET and Hydrodynamic Separator | 0 | LS | 109,761.60 | - | - | \$ - | \$ - | \$ - | \$ - |
| 1.16 | Seeding | 0 | SF | 1.50 | 1.50 | 1.00 | \$ - | \$ - | \$ - | \$ - |
| 1.17 | Erosion Control-Silt fence install & remove | 0 | LF | 2.41 | 3.16 | 0.72 | \$ - | \$ - | \$ - | \$ - |
| 1.18 | Temporary fencing | 0 | LF | 7.50 | 5.25 | 2.25 | \$ - | \$ - | \$ - | \$ - |
| 1.19 | Substation entrance with asphalt | 0 | SY | 19.50 | 26.00 | 19.50 | \$ - | \$ - | \$ - | \$ - |
| 1.20 | Concrete curb | 0 | LF | 26.00 | 27.30 | 11.70 | \$ - | \$ - | \$ - | \$ - |
| 1.21 | Retaining Wall | 0 | LF | 156.00 | 117.00 | 117.00 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | \$ - | \$ 24,000 | \$ 16,000 | \$ 40,000 |
| 2. SUBSTATION FOUNDATIONS | | | | | | | | | | |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|---|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|------------|
| 2.1 | 345kV, Lightning mast | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | 345kV, A Frame 70' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | 345kV, Bus support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.4 | 345kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.5 | 345kV, Bus support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.6 | 345kV, GIS air terminal | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | 345kV, GIS support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | 345kV, GIS support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.9 | 345kV, GIS Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.10 | 345kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | 345kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.12 | 345kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.13 | 345/138KV, Power Transformer with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.14 | 345kV, Shunt Reactor with oil containment-250MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.15 | 345kV, Shunt Reactor with oil containment-100MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.16 | 345kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.17 | 345kV, Circuit Breaker | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.18 | 345kV, Circuit Breaker (GIS), outdoor rated | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | 345Kv, GIS Enclosure-BLDG with generator pad | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.20 | 345kV, Surge arrester | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.21 | 138kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.22 | 138kV, Shunt Reactor with oil containment-250MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.23 | 138kV, Circuit Breaker, | 4 | CY | 703.89 | 804.44 | 502.78 | \$ 3,132 | \$ 3,580 | \$ 2,237 | \$ 8,949 |
| 2.24 | 138kV, Bus support-3 Ph, low | 11 | CY | 703.89 | 804.44 | 502.78 | \$ 7,532 | \$ 8,608 | \$ 5,380 | \$ 21,519 |
| 2.25 | 138kV, Bus support-1 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.26 | 138kV, Disconnect Switch | 12 | CY | 703.89 | 804.44 | 502.78 | \$ 8,531 | \$ 9,750 | \$ 6,094 | \$ 24,375 |
| 2.27 | 138kV, Cable sealing end | 6 | CY | 703.89 | 804.44 | 502.78 | \$ 4,266 | \$ 4,875 | \$ 3,047 | \$ 12,187 |
| 2.28 | 138kV, Surge arrester | 16 | CY | 703.89 | 804.44 | 502.78 | \$ 11,297 | \$ 12,911 | \$ 8,070 | \$ 32,278 |
| 2.29 | 138kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.30 | 138kV, A Frame 50' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Firewall Foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.32 | Precast Firewall for transformer, PARs, reactors | | SF | 25.00 | 15.00 | 10.00 | \$ - | \$ - | \$ - | \$ - |
| 2.33 | Precast Concrete Piles-12"X80' | | EA | 18,000.00 | 3,200.00 | 2,800.00 | \$ - | \$ - | \$ - | \$ - |
| 2.34 | Local Control Cabinet foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.35 | 138kV, GIS Enclosure-BLDG & control room | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| TOTAL - 345KV FOUNDATION | | | | | | | \$ 34,758 | \$ 39,723 | \$ 24,827 | \$ 99,308 |
| 3. SUBSTATION STRUCTURES | | | | | | | | | | |
| 3.1 | 345kV, Lightning mast | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.2 | 345kV, A Frame 70' | | EA | 48,100.00 | 28,860.00 | 19,240.00 | \$ - | \$ - | \$ - | \$ - |
| 3.3 | 345kV, Bus support-3 Ph | | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.4 | 345kV, Bus support-3 Ph, low | | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | 345kV, Bus support-1 Ph | | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | 345kV, GIS air terminal | | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | 345kV, GIS support-1 Ph | | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | 345kV, GIS support-3 Ph | | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | 345kV, GIS Cable sealing end | | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | 345kV, Cable sealing end | | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.11 | 345kV, CCVT | | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.12 | 345kV, Disconnect Switch | | EA | 19,240.00 | 11,544.00 | 7,696.00 | \$ - | \$ - | \$ - | \$ - |
| 3.13 | 138kV, Bus support-3 Ph, low | 2 | EA | 4,173.00 | 2,879.76 | 1,919.84 | \$ 8,346 | \$ 5,760 | \$ 3,840 | \$ 17,945 |
| 3.14 | 138kV, Bus support-1 Ph, low | | EA | 2,782.00 | 1,919.84 | 1,279.89 | \$ - | \$ - | \$ - | \$ - |
| 3.15 | 138kV, Disconnect Switch | 2 | EA | 4,896.84 | 4,896.84 | 2,448.42 | \$ 9,794 | \$ 9,794 | \$ 4,897 | \$ 24,484 |
| 3.16 | 138kV, Cable sealing end | 1 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ 4,810 | \$ 2,886 | \$ 1,924 | \$ 9,620 |
| 3.18 | 138kV, Surge arrester | 3 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ 14,430 | \$ 8,658 | \$ 5,772 | \$ 28,860 |
| 3.17 | 138kV, CCVT | 0 | EA | 3,206.67 | 1,924.00 | 1,282.67 | \$ - | \$ - | \$ - | \$ - |
| 3.18 | 138kV, A Frame 50' | | EA | 33,000.00 | 19,800.00 | 13,200.00 | \$ - | \$ - | \$ - | \$ - |
| 3.19 | 345kV Gas-Insulated Bus Conductor | | LF | 550.00 | 275.00 | 82.50 | \$ - | \$ - | \$ - | \$ - |
| 3.20 | 345kV Gas-Insulated Bus Conductor-elbow | | EA | 2,500.00 | 1,250.00 | 375.00 | \$ - | \$ - | \$ - | \$ - |
| 3.21 | AL. Bus Tubing, 5" SCH 80 | 150 | LF | 25.00 | 184.94 | 123.29 | \$ 3,750 | \$ 27,741 | \$ 18,494 | \$ 49,985 |
| 3.22 | AL. Bus fittings | 1 | LS | 4,500.00 | 4,500.00 | 2,250.00 | \$ 4,500 | \$ 4,500 | \$ 2,250 | \$ 11,250 |
| 3.23 | Steel grating and support beams-transformer moat | 0 | LB | 2.73 | 1.17 | 0.50 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SUBSTATION STRUCTURES & GAS-INSULATED CONDUCTOR | | | | | | | \$ 45,630 | \$ 59,338 | \$ 37,176 | \$ 142,144 |
| 4. MAJOR EQUIPMENT | | | | | | | | | | |
| 4.1 | 345kV, GIS air terminal | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.2 | 345kV, GIS Cable sealing end | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|-------------------------------------|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|------------|
| 4.3 | 345kV, Cable sealing end | 0 | EA | | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.4 | 345kV, CCVT | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 4.5 | 345kV, Disconnect Switch | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.6 | 345/138KV, Power Transformer with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.7 | Transport & Testing- Transformer | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.8 | 345kV, Shunt Reactor with oil containment-250MVAR | | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.9 | 345kV, Shunt Reactor with oil containment-100MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.10 | Transport & Testing- Shunt Reactor | | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.11 | 345kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.12 | 345kV, Gas Insulated Switchgear, BAAH Arrangement | 0 | BKR | | 205,800.00 | 4,200.00 | \$ - | \$ - | \$ - | \$ - |
| 4.13 | 345kV, Circuit Breaker | | EA | | 57,239.00 | 24,531.00 | \$ - | \$ - | \$ - | \$ - |
| 4.14 | 345kV, Circuit Breaker (GIS), outdoor rated | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.15 | 345kV, Circuit Breaker (GIS), outdoor rated-Line surge Arrester (3phase) | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.16 | 345kV, surge Arrester | 0 | EA | | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.17 | 138kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Transport & Testing- Phase Angle Regulating Transformer, 138kV | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Transport & Testing- Transformer | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.20 | 138kV, Shunt Reactor with oil containment-250MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.21 | Transport & Testing- Shunt Reactor | 0 | EA | | 204,400.00 | 132,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.22 | 138kV, Gas Insulated Switchgear, BAAH Arrangement | 0 | BKR | | 205,800.00 | 4,200.00 | \$ - | \$ - | \$ - | \$ - |
| 4.23 | 138kV, Circuit Breaker, | 1 | EA | 112,000.00 | 13,559.00 | 5,811.00 | \$ 112,000 | \$ 13,559 | \$ 5,811 | \$ 131,370 |
| 4.24 | 138kV, Disconnect Switch | 2 | EA | 37,700.00 | 11,875.50 | 5,089.50 | \$ 75,400 | \$ 23,751 | \$ 10,179 | \$ 109,330 |
| 4.25 | 138kV, Cable sealing end | 3 | EA | 11,600.00 | 5,460.00 | 2,340.00 | \$ 34,800 | \$ 16,380 | \$ 7,020 | \$ 58,200 |
| 4.26 | 138kV, CCVT | 0 | EA | 3,206.67 | 1,924.00 | 1,282.67 | \$ - | \$ - | \$ - | \$ - |
| 4.27 | 138kV, Surge arrester | 3 | EA | 4,066.40 | 1,443.00 | 962.00 | \$ 12,199 | \$ 4,329 | \$ 2,886 | \$ 19,414 |
| 4.28 | Station service transformers- 120/208v-250VA | 0 | EA | | 45,500.00 | 19,500.00 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - MAJOR EQUIPMENT | | | | | | | \$ 234,399 | \$ 58,019 | \$ 25,896 | \$ 318,314 |
| 5. LOW VOLTAGE & CONTROL CABLE | | | | | | | | | | |
| 5.1 | Control Cables | 5,100 | LF | 5.30 | 1.43 | 0.29 | \$ 27,017 | \$ 7,306 | \$ 1,461 | \$ 35,784 |
| 5.2 | | | LF | | - | - | \$ - | \$ - | \$ - | \$ - |
| TOTAL - LOW VOLTAGE & CONTROL CABLE | | | | | | | \$ 27,017 | \$ 7,306 | \$ 1,461 | \$ 35,784 |
| 6. CONDUIT & CABLE TRENCH | | | | | | | | | | |
| 6.1 | Conduit, PVC, 6", SCH 40 | | LF | 20.70 | 13.28 | 6.64 | \$ - | \$ - | \$ - | \$ - |
| 6.2 | Conduit, PVC, 4", SCH 40 | 900 | LF | 11.15 | 10.80 | 5.40 | \$ 10,035 | \$ 9,720 | \$ 4,860 | \$ 24,615 |
| 6.3 | Conduit, PVC, 3", SCH 40 | | LF | 8.10 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.4 | Conduit, PVC, 2", SCH 40 | | LF | 3.95 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.5 | Conduit, PVC, 1", SCH 40 | | LF | 1.90 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.6 | Cable Trench | 250 | LF | 266.50 | 53.04 | 13.26 | \$ 66,625 | \$ 13,260 | \$ 3,315 | \$ 83,200 |
| 6.7 | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 6.8 | 138kV UG- Conduit | 0 | LF | 266.73 | 202.15 | 100.00 | \$ - | \$ - | \$ - | \$ - |
| 6.9 | 138kV UG- Cable | 0 | LF | 145.00 | 87.00 | 58.00 | \$ - | \$ - | \$ - | \$ - |
| 6.10 | 138kV UG- Termination | 0 | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ - | \$ - | \$ - | \$ - |
| 6.11 | 345kV UG- Conduit | 0 | LF | 266.73 | 202.15 | 100.00 | \$ - | \$ - | \$ - | \$ - |
| 6.12 | 345kV UG- Cable | 0 | LF | 167.00 | 100.20 | 66.80 | \$ - | \$ - | \$ - | \$ - |
| 6.13 | 345kV UG- Termination | 0 | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ - | \$ - | \$ - | \$ - |
| 6.14 | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 6.15 | | | | | | | \$ - | \$ - | \$ - | \$ - |
| TOTAL - CONDUIT & CABLE TRENCH | | | | | | | \$ 76,660 | \$ 22,980 | \$ 8,175 | \$ 107,815 |
| 7. GROUND GRID | | | | | | | | | | |
| 7.1 | Cable, 4/0 AWG Bare Copper, 7 Strand Ground Conductor | 400 | LF | 2.09 | 3.42 | 1.46 | \$ 836 | \$ 1,366 | \$ 585 | \$ 2,788 |
| 7.2 | Caweld, DSA, 4/0 , T, CROSS | 10 | EA | 165.00 | 75.00 | | \$ 1,650 | \$ 750 | \$ - | \$ 2,400 |
| 7.3 | Ground Rod, 3/4" x 15' | 3 | EA | 135.00 | 67.50 | 7.50 | \$ 439 | \$ 219 | \$ 24 | \$ 683 |
| TOTAL - GROUND GRID | | | | | | | \$ 2,925 | \$ 2,335 | \$ 610 | \$ 5,871 |
| 8. CONTROL ENCLOSURE | | | | | | | | | | |
| 8.1 | 345kv GIS Bldg | 0 | EA | 2,226,935.13 | 1,558,854.59 | 668,080.54 | \$ - | \$ - | \$ - | \$ - |
| 8.2 | 138kv GIS/Control Bldg | 0 | EA | 1,145,280.92 | 801,696.65 | 343,584.28 | \$ - | \$ - | \$ - | \$ - |
| 8.3 | Primary Line Relays (87L): SEL-411L | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.4 | Backup Line Relays (87L): GE L90 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.5 | Primary Bay Control: SEL-451 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.6 | Backup Bay Control: SEL-451 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.7 | Primary Bus Differential Relays: SEL-487B | 2 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |
| 8.8 | Backup Bus Differential Relays: GE B90 | 2 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |
| 8.9 | 125VDC Battery System | 0 | LS | 25,000.00 | 22,750.00 | 9,750.00 | \$ - | \$ - | \$ - | \$ - |
| 8.10 | Control house AC Panel | 0 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|--------------|
| 8.11 | Control House DC Panel | 0 | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ - | \$ - | \$ - | \$ - |
| 8.12 | Generator | 0 | EA | 130,000.00 | 72,800.00 | 31,200.00 | \$ - | \$ - | \$ - | \$ - |
| TOTAL- CONTROL ENCLOSURE | | | | | | | \$ 170,625 | \$ 136,500 | \$ 34,125 | \$ 341,250 |
| 10.Shore Road 138kV Substation Upgrades | | | | | | | \$ 592,014 | \$ 350,201 | \$ 148,270 | \$ 1,090,486 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 9.1 | Mob / Demob | 1.0 | LS | | 17,446.51 | 7,477.08 | \$ - | \$ 17,447 | \$ 7,477 | \$ 24,924 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 9.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 10,904.86 | | \$ - | \$ 10,905 | \$ - | \$ 10,905 |
| 9.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1 | LS | | 43,619.43 | | \$ - | \$ 43,619 | \$ - | \$ 43,619 |
| 9.4 | Utility PM and Project Oversight | 1 | LS | | 10,904.86 | | \$ - | \$ 10,905 | \$ - | \$ 10,905 |
| 9.5 | Site Accommodation, Facilities, Storage | 1 | LS | 10,904.86 | | | \$ 10,905 | \$ - | \$ - | \$ 10,905 |
| | Engineering | | | | | | | | | |
| 9.6 | Design Engineering | 1.00 | LS | | 87,238.86 | | \$ - | \$ 87,239 | \$ - | \$ 87,239 |
| 9.7 | LiDAR /GPR | 1.00 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 9.8 | Geotech | 2.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 5,460 | \$ 3,640 | \$ 9,100 |
| 9.9 | Surveying/Staking | 0.20 | Site | | 7,633.40 | | \$ - | \$ 1,527 | \$ - | \$ 1,527 |
| | Testing & Commissioning | | | | | | | | | |
| 9.10 | Testing & Commissioning of SS and Equipment | 1.00 | LS | | 40,893.21 | | \$ - | \$ 40,893 | \$ - | \$ 40,893 |
| | Permitting and Additional Costs | | | | | | | | | |
| 9.11 | Physical Security | 1.00 | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.12 | Environmental Licensing & Permitting Costs & related legal cost | 1.00 | LS | | 10,904.86 | | \$ - | \$ 10,905 | \$ - | \$ 10,905 |
| 9.13 | Environmental-special studies/investigation | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.14 | Warranties / LOC's | 1.00 | LS | | 3,271.46 | | \$ - | \$ 3,271 | \$ - | \$ 3,271 |
| 9.15 | Laydown Lease | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.16 | Real Estate (Acquisition) | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.17 | Legal Fees (Real estate) | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 9.18 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 9.19 | Bonds | 1 | LS | | - | \$ 40,000 | \$ - | \$ - | \$ 40,000 | \$ 40,000 |
| 9.20 | Sales Tax on Materials | 8.80% | LS | 592,014.04 | | | \$ 52,097 | \$ - | \$ - | \$ 52,097 |
| 9.21 | Fees for permits, including roadway, railroad, building or other local permits | 1.00 | LS | | 1,090.49 | | \$ - | \$ 1,090 | \$ - | \$ 1,090 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 63,002 | \$ 233,261 | \$ 51,117 | \$ 347,380 |

NEXTera Energy- TO41 Core 6

16. Existing Ruland Road 138 kV Substation Upgrades

Total: \$ 2,030,035

| NEXTera Energy- TO41 Core 6 | | | | |
|--|-----------------|--------------|--------------|---------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| 16. Existing Ruland Road 138 kV Substation Upgrades | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | \$ - | \$ - | \$ - | \$ - |
| 2. SUBSTATION FOUNDATIONS | \$ 3,128 | \$ 3,575 | \$ 2,235 | \$ 8,938.22 |
| 3. SUBSTATION STRUCTURES | \$ - | \$ - | \$ - | \$ - |
| 4. MAJOR EQUIPTMENT | \$ 920,000 | \$ 13,559 | \$ 5,811 | \$ 939,370.00 |
| 5. LOW VOLTAGE & CONTROL CABLE | \$ 20,660 | \$ 5,587 | \$ 1,117 | \$ 27,364.35 |
| 6. CONDUIT & CABLE TRENCH | \$ 6,690 | \$ 6,480 | \$ 3,240 | \$ 16,410.00 |
| 7. GROUND GRID | \$ - | \$ - | \$ - | \$ - |
| 8. CONTROL ENCLOSURE | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312.46 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 98,170 | \$ 216,812 | \$ 41,264 | \$ 356,245.74 |
| SUBTOTAL (Costs): | \$ 1,091,305 | \$ 280,138 | \$ 62,198 | \$ 1,433,641 |
| CONTRACTOR MARK-UP (OH&P) | \$ 196,435 | \$ 50,425 | \$ 11,196 | \$ 258,055 |
| SUBTOTAL: | \$ 1,287,740 | \$ 330,563 | \$ 73,394 | \$ 1,691,696 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 257,548 | \$ 66,113 | \$ 14,679 | \$ 338,339 |
| TOTAL: | \$ 1,545,287 | \$ 396,675 | \$ 88,072 | \$ 2,030,035 |

| Description of Work: Modification at exisitng 138kv Ruland station (replace with two hybrid circuit breaker) | | | | | | | | | | |
|---|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
| 16. Existing Ruland Road 138 kV Substation Upgrades | | | | | | | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | | | | |
| 1.1 | Site Clearing | | ACRE | - | 10,800.00 | 7,200.00 | \$ - | \$ - | \$ - | \$ - |
| 1.2 | Demolition | | ACRE | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 1.3 | New Access Road - 20' | | SY | 4.85 | 7.20 | 4.80 | \$ - | \$ - | \$ - | \$ - |
| 1.4 | Strip and Dispose Top Soil | | CY | | 24.50 | 10.50 | \$ - | \$ - | \$ - | \$ - |
| 1.5 | Site Grading- Excavation for Substation Pad | | CY | | 9.00 | 6.00 | \$ - | \$ - | \$ - | \$ - |
| 1.6 | Site Grading- Excavation for Substation Pad-Rock excavation-Hauling and disposal | | CY | | 21.00 | 9.00 | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Site Grading- Fill for Substation Pad (site borrow, compacted in place) | | CY | | 2.40 | 1.60 | \$ - | \$ - | \$ - | \$ - |
| 1.8 | Site Grading -Fill for Substation Pad (import, compacted in place) | | CY | 25.00 | 2.40 | 1.60 | \$ - | \$ - | \$ - | \$ - |
| 1.9 | Blasting | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 1.10 | Install substation 8" pad base | | SY | 11.00 | 6.00 | 4.00 | \$ - | \$ - | \$ - | \$ - |
| 1.11 | Site Surfacing - Aggregate 6" Thick | | SY | 16.50 | 4.50 | 3.00 | \$ - | \$ - | \$ - | \$ - |
| 1.12 | 7' Station Fence w/ Barbed Wire & Grounding | | LF | 13.85 | 13.85 | 6.92 | \$ - | \$ - | \$ - | \$ - |
| 1.13 | 20' Slide Gate & Grounding | | EA | 8,100.00 | 3,245.00 | 1,305.00 | \$ - | \$ - | \$ - | \$ - |
| 1.14 | 4' Pedestrian gate | | EA | 2,500.00 | 1,000.00 | 350.00 | \$ - | \$ - | \$ - | \$ - |
| 1.15 | Storm drain-15" HDPE, INFILTRATION TRENCH, INLET and Hydrodynamic Separator | | LS | 446,976.00 | 115,200.00 | 76,104.00 | \$ - | \$ - | \$ - | \$ - |
| 1.16 | Seeding | | SF | 1.50 | 1.50 | 1.00 | \$ - | \$ - | \$ - | \$ - |
| 1.17 | Erosion Control-Silt fence install & remove | | LF | 2.41 | 3.16 | 0.72 | \$ - | \$ - | \$ - | \$ - |
| 1.18 | Temporary fencing | | LF | 7.50 | 5.25 | 2.25 | \$ - | \$ - | \$ - | \$ - |
| 1.19 | Substation entrance with asphalt | | SY | 19.50 | 26.00 | 19.50 | \$ - | \$ - | \$ - | \$ - |
| 1.20 | Concrete curb | | LF | 26.00 | 27.30 | 11.70 | \$ - | \$ - | \$ - | \$ - |
| 1.21 | Retaining Wall | | LF | 156.00 | 117.00 | 117.00 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|------------|
| 2. SUBSTATION FOUNDATIONS | | | | | | | | | | |
| 2.1 | 345kV, Lightning mast | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | 345kV, A Frame 70' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | 345kV, Bus support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.4 | 345kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.5 | 345kV, Bus support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.6 | 345kV, GIS air terminal | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | 345kV, GIS support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | 345kV, GIS support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.9 | 345kV, GIS Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.10 | 345kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | 345kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.12 | 345kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.13 | 345/138KV, Power Transformer with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.14 | 345kV, Shunt Reactor with oil containment-275MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.15 | 345kV, Shunt Reactor with oil containment-100MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.16 | 345kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.17 | 345kV, Circuit Breaker | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.18 | 345kV, Circuit Breaker (GIS), outdoor rated | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | 345Kv, Control Enclosure-BLDG with generator pad | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.20 | 345kV, Surge arrester | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.21 | 138kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.22 | 138kV, Circuit Breaker, Hybrid circuit breaker | 4 | CY | 703.89 | 804.44 | 502.78 | \$ 3,128 | \$ 3,575 | \$ 2,235 | \$ 8,938 |
| 2.23 | 138kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.24 | 138kV, Bus support-1 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.25 | 138kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.26 | 138kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.27 | 138kV, Surge arrester | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.28 | 138kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.29 | 138kV, A Frame 50' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.30 | Firewall Foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Precast Firewall for transformer, PARs, reactors | - | SF | 25.00 | 15.00 | 10.00 | \$ - | \$ - | \$ - | \$ - |
| 2.32 | Precast Concrete Piles-12"X80' | - | EA | 18,000.00 | 3,200.00 | 2,800.00 | \$ - | \$ - | \$ - | \$ - |
| 2.33 | Local Control Cabinet foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.34 | 138kV, GIS Enclosure-BLDG & control room | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| TOTAL - 345KV FOUNDATION | | | | | | | \$ 3,128 | \$ 3,575 | \$ 2,235 | \$ 8,938 |
| 3. SUBSTATION STRUCTURES | | | | | | | | | | |
| 3.1 | 345kV, Lightning mast | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.2 | 345kV, A Frame 70' | 0 | EA | 48,100.00 | 28,860.00 | 19,240.00 | \$ - | \$ - | \$ - | \$ - |
| 3.3 | 345kV, Bus support-3 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.4 | 345kV, Bus support-3 Ph, low | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | 345kV, Bus support-1 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | 345kV, GIS air terminal | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | 345kV, GIS support-1 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | 345kV, GIS support-3 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | 345kV, GIS Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | 345kV, Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.11 | 345kV, CCVT | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.12 | 345kV, Disconnect Switch | 0 | EA | 19,240.00 | 11,544.00 | 7,696.00 | \$ - | \$ - | \$ - | \$ - |
| 3.13 | 138kV, Bus support-3 Ph, low | 0 | EA | 4,173.00 | 2,879.76 | 1,919.84 | \$ - | \$ - | \$ - | \$ - |
| 3.14 | 138kV, Bus support-1 Ph, low | 0 | EA | 2,782.00 | 1,919.84 | 1,279.89 | \$ - | \$ - | \$ - | \$ - |
| 3.15 | 138kV, Disconnect Switch | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.16 | 138kV, Cable sealing end | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.17 | 138kV, Surge arrester | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.17 | 138kV, CCVT | 0 | EA | 3,206.67 | 1,924.00 | 1,282.67 | \$ - | \$ - | \$ - | \$ - |
| 3.18 | 138kV, A Frame 50' | 0 | EA | 33,000.00 | 19,800.00 | 13,200.00 | \$ - | \$ - | \$ - | \$ - |
| 3.19 | AL. Bus Tubing, 5" SCH 80 | | LF | 25.00 | 184.94 | 123.29 | \$ - | \$ - | \$ - | \$ - |
| 3.20 | AL. Bus fittings | | LS | 22,500.00 | 22,500.00 | 11,250.00 | \$ - | \$ - | \$ - | \$ - |
| 3.21 | Steel grating and support beams-transformer moat | 0 | LB | 2.73 | 1.17 | 0.50 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SUBSTATION STRUCTURES & GAS-INSULATED CONDUCTOR | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 4. MAJOR EQUIPMENT | | | | | | | | | | |
| 4.1 | 345kV, Cable sealing end | 0 | EA | 17,400.00 | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.2 | 345kV, CCVT | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 4.3 | 345kV, Disconnect Switch | 0 | EA | 57,720.00 | 34,632.00 | 23,088.00 | \$ - | \$ - | \$ - | \$ - |
| 4.4 | 345/138KV, Power Transformer with oil containment | 0 | EA | 5,020,000.00 | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|-------------------------------------|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|------------|
| 4.5 | Transport & Testing- Transformer | 0 | EA | | 777,400.00 | 514,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.6 | 345kV, Shunt Reactor with oil containment-275MVAR | 0 | EA | 3,332,488.00 | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.7 | 345kV, Shunt Reactor with oil containment-100MVAR | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.8 | Transport & Testing- Shunt Reactor | 0 | EA | | 426,650.00 | 182,850.00 | \$ - | \$ - | \$ - | \$ - |
| 4.9 | 345kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.10 | 345kV, Circuit Breaker | 0 | EA | 350,000.00 | 57,239.00 | 24,531.00 | \$ - | \$ - | \$ - | \$ - |
| 4.11 | 345kV, Circuit Breaker (GIS), outdoor rated | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.12 | 345kV, Circuit Breaker (GIS), outdoor rated-Line surge Arrester (3phase) | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.13 | 345kV, surge Arrester | 0 | EA | 6,669.00 | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.14 | 138kV, Phase Angle Regulator with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.15 | Transport & Testing- Phase Angle Regulating Transformer, 138kV | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.16 | 138kV, Gas Insulated Switchgear, BAAH Arrangement | 0 | BKR | 478,750.00 | 287,250.00 | 191,500.00 | \$ - | \$ - | \$ - | \$ - |
| 4.17 | 138kV, Circuit Breaker, Hybrid circuit breaker | 1 | EA | 920,000.00 | 13,559.00 | 5,811.00 | \$ 920,000 | \$ 13,559 | \$ 5,811 | \$ 939,370 |
| 4.18 | 138kV, Disconnect Switch | 0 | EA | | 3,958.50 | 1,696.50 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | 138kV, Cable sealing end | 0 | EA | 11,600.00 | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.20 | 138kV, CCVT | 0 | EA | | 7,970.08 | 3,415.75 | \$ - | \$ - | \$ - | \$ - |
| 4.21 | 138kV, Surge arrester | 0 | EA | 4,446.00 | 4,200.00 | 1,800.00 | \$ - | \$ - | \$ - | \$ - |
| 4.22 | Station service transformers- 120/208v-250VA | 0 | EA | 260,000.00 | 45,500.00 | 19,500.00 | \$ - | \$ - | \$ - | \$ - |
| 4.23 | 345kV Gas-Insulated Bus Conductor | 0 | LF | 550.00 | 275.00 | 82.50 | \$ - | \$ - | \$ - | \$ - |
| 4.24 | 345kV Gas-Insulated Bus Conductor-elbow | 0 | EA | 2,500.00 | 1,250.00 | 375.00 | \$ - | \$ - | \$ - | \$ - |
| 4.25 | Transport & Testing- GIL | 0 | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | \$ - | \$ - | \$ - | \$ - |
| TOTAL - MAJOR EQUIPMENT | | | | | | | \$ 920,000 | \$ 13,559 | \$ 5,811 | \$ 939,370 |
| 5. LOW VOLTAGE & CONTROL CABLE | | | | | | | | | | |
| 5.1 | Control Cables | 3,900 | LF | 5.30 | 1.43 | 0.29 | \$ 20,660 | \$ 5,587 | \$ 1,117 | \$ 27,364 |
| 5.2 | | | LF | | - | - | \$ - | \$ - | \$ - | \$ - |
| TOTAL - LOW VOLTAGE & CONTROL CABLE | | | | | | | \$ 20,660 | \$ 5,587 | \$ 1,117 | \$ 27,364 |
| 6. CONDUIT & CABLE TRENCH | | | | | | | | | | |
| 6.1 | Conduit, PVC, 6", SCH 40 | | LF | 20.70 | 13.28 | 6.64 | \$ - | \$ - | \$ - | \$ - |
| 6.2 | Conduit, PVC, 4", SCH 40 | 600 | LF | 11.15 | 10.80 | 5.40 | \$ 6,690 | \$ 6,480 | \$ 3,240 | \$ 16,410 |
| 6.3 | Conduit, PVC, 3", SCH 40 | | LF | 8.10 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.4 | Conduit, PVC, 2", SCH 40 | | LF | 3.95 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.5 | Conduit, PVC, 1", SCH 40 | | LF | 1.90 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.6 | Cable Trench | | LF | 266.50 | 53.04 | 13.26 | \$ - | \$ - | \$ - | \$ - |
| 6.7 | | | | | | | | | | |
| 6.8 | 138kV UG- Conduit | | LF | 266.73 | 202.15 | 100.00 | \$ - | \$ - | \$ - | \$ - |
| 6.9 | 138kV UG- Cable | 0 | LF | 145.00 | 87.00 | 58.00 | \$ - | \$ - | \$ - | \$ - |
| 6.10 | 138kV UG- Termination | 0 | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ - | \$ - | \$ - | \$ - |
| 6.13 | Fiber Optic Cable | 0 | LF | 7.40 | 3.33 | 2.22 | \$ - | \$ - | \$ - | \$ - |
| 6.14 | Ground Continuity Conductor | 0 | LF | 13.04 | 7.53 | 5.02 | \$ - | \$ - | \$ - | \$ - |
| 6.11 | | | | | | | \$ - | \$ - | \$ - | \$ - |
| TOTAL - CONDUIT & CABLE TRENCH | | | | | | | \$ 6,690 | \$ 6,480 | \$ 3,240 | \$ 16,410 |
| 7. GROUND GRID | | | | | | | | | | |
| 7.1 | Cable, 4/0 AWG Bare Copper, 7 Strand Ground Conductor | | LF | 2.09 | 3.42 | 1.46 | \$ - | \$ - | \$ - | \$ - |
| 7.2 | Caweld, DSA, 4/0 , T, CROSS | | EA | 165.00 | 75.00 | | \$ - | \$ - | \$ - | \$ - |
| 7.3 | Ground Rod, 3/4" x 15' | | EA | 135.00 | 67.50 | 7.50 | \$ - | \$ - | \$ - | \$ - |
| TOTAL - GROUND GRID | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 8. CONTROL ENCLOSURE | | | | | | | | | | |
| 8.1 | 345kv Control Bldg | 0 | EA | 407,211.00 | 285,047.70 | 122,163.30 | \$ - | \$ - | \$ - | \$ - |
| 8.2 | 138kv GIS/Control Bldg | 0 | EA | 1,145,280.92 | 801,696.65 | 343,584.28 | \$ - | \$ - | \$ - | \$ - |
| 8.3 | Primary Line Relays (87L): SEL-411L | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.4 | Backup Line Relays (87L): GE L90 | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.5 | Primary Bay Control: SEL-451 | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.6 | Backup Bay Control: SEL-451 | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.7 | Primary Transformer/Reactor/PAR Differential Relays: SEL-487E | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.8 | Backup Transformer/Reactor/PAR Differential Relays: GE T60 | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.9 | Primary Bus Differential Relays: SEL-487B | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.10 | Backup Bus Differential Relays: GE B90 | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.11 | RTU Panel A: SEL-2240 Axion, SEL-2730M ENET SW., SEL-2407 GPS, Modem, SEL-2523 Annunciator, JMUX | | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ - | \$ - | \$ - | \$ - |
| 8.12 | RTU Panel B: SEL-2730M Ethernet Switch, SEL-2407 GPS Clock, SEL-2523 Annunciator | | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ - | \$ - | \$ - | \$ - |
| 8.13 | HMI Panel | | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ - | \$ - | \$ - | \$ - |
| 8.14 | Primary Line Relays (87L): SEL-411L | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.15 | Backup Line Relays (87L): GE L90 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.16 | Primary Bay Control: SEL-451 | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.17 | Backup Bay Control: SEL-451 | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.18 | Primary Bus Differential Relays: SEL-487B | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.19 | Backup Bus Differential Relays: GE B90 | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|--------------|
| 8.20 | 125VDC Battery System | | LS | 25,000.00 | 22,750.00 | 9,750.00 | \$ - | \$ - | \$ - | \$ - |
| 8.21 | Control house AC Panel | | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ - | \$ - | \$ - | \$ - |
| 8.22 | Control House DC Panel | | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ - | \$ - | \$ - | \$ - |
| 8.23 | Generator | | EA | 130,000.00 | 72,800.00 | 31,200.00 | \$ - | \$ - | \$ - | \$ - |
| TOTAL - CONTROL ENCLOSURE | | | | | | | \$ 42,656 | \$ 34,125 | \$ 8,531 | \$ 85,312 |
| 16. Existing Ruland Road 138 kV Substation Upgrades | | | | | | | \$ 993,135 | \$ 63,326 | \$ 20,934 | \$ 1,077,395 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 9.1 | Mob / Demob | 1.0 | LS | | 2,949.11 | 1,263.90 | \$ - | \$ 2,949 | \$ 1,264 | \$ 4,213 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 9.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 10,773.95 | | \$ - | \$ 10,774 | \$ - | \$ 10,774 |
| 9.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1 | LS | | 43,095.80 | | \$ - | \$ 43,096 | \$ - | \$ 43,096 |
| 9.4 | Utility PM and Project Oversight | 1 | LS | | 10,773.95 | | \$ - | \$ 10,774 | \$ - | \$ 10,774 |
| 9.5 | Site Accommodation, Facilities, Storage | 1 | LS | 10,773.95 | | | \$ 10,774 | \$ - | \$ - | \$ 10,774 |
| | Engineering | | | | | | | | | |
| 9.6 | Design Engineering | 1.00 | LS | | 86,191.60 | | \$ - | \$ 86,192 | \$ - | \$ 86,192 |
| 9.7 | LiDAR /GPR | 1.00 | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.8 | Geotech | | EA | | 2,730.00 | 1,820.00 | \$ - | \$ - | \$ - | \$ - |
| 9.9 | Surveying/Staking | 1.00 | Site | | 7,541.77 | | \$ - | \$ 7,542 | \$ - | \$ 7,542 |
| | Testing & Commissioning | | | | | | | | | |
| 9.10 | Testing & Commissioning of SS and Equipment | 1.00 | LS | | 40,402.31 | | \$ - | \$ 40,402 | \$ - | \$ 40,402 |
| | Permitting and Additional Costs | | | | | | | | | |
| 9.11 | Physical Security | - | LS | | 6,546.96 | | \$ - | \$ - | \$ - | \$ - |
| 9.12 | Environmental Licensing & Permitting Costs & related legal cost | 1.00 | LS | | 10,773.95 | | \$ - | \$ 10,774 | \$ - | \$ 10,774 |
| 9.13 | Environmental-special studies/investigation | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.14 | Warranties / LOC's | 1.00 | LS | | 3,232.19 | | \$ - | \$ 3,232 | \$ - | \$ 3,232 |
| 9.15 | Laydown Lease | - | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 9.16 | Real Estate (Acquisition) | | LS | | - | 1,158,245.00 | \$ - | \$ - | \$ - | \$ - |
| 9.17 | Legal Fees (Real estate) | - | LS | | - | 34,747.35 | \$ - | \$ - | \$ - | \$ - |
| 9.18 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 9.19 | Bonds | 1 | LS | | - | \$ 40,000 | \$ - | \$ - | \$ 40,000 | \$ 40,000 |
| 9.20 | Sales Tax on Materials | 8.80% | LS | 993,134.86 | | | \$ 87,396 | \$ - | \$ - | \$ 87,396 |
| 9.21 | Fees for permits, including roadway, railroad, building or other local permits | 1.00 | LS | | 1,077.40 | | \$ - | \$ 1,077 | \$ - | \$ 1,077 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 98,170 | \$ 216,812 | \$ 41,264 | \$ 356,246 |

NEXtera Energy- TO41 Core 6

17. Existing East Garden City 138 kV Substation Upgrades

Total: \$ 28,298,464

| NEXtera Energy- TO41 Core 6 | | | | |
|--|-----------------|--------------|--------------|---------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| 17. Existing East Garden City 138 kV Substation Upgrades | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | \$ - | \$ - | \$ - | \$ - |
| 2. SUBSTATION FOUNDATIONS | \$ 249,640 | \$ 285,303 | \$ 178,314 | \$ 713,257 |
| 3. SUBSTATION STRUCTURES | \$ 261,466 | \$ 347,805 | \$ 240,376 | \$ 849,646 |
| 4. MAJOR EQUIPMENT | \$ 10,602,422 | \$ 458,707 | \$ 272,389 | \$ 11,333,517 |
| 5. LOW VOLTAGE & CONTROL CABLE | \$ 25,428 | \$ 6,876 | \$ 1,375 | \$ 33,679 |
| 6. CONDUIT & CABLE TRENCH | \$ 814,095 | \$ 440,988 | \$ 236,281 | \$ 1,491,364 |
| 7. GROUND GRID | \$ 14,819 | \$ 10,555 | \$ 2,392 | \$ 27,766 |
| 8. CONTROL ENCLOSURE | \$ 298,594 | \$ 238,875 | \$ 59,719 | \$ 597,187 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 1,229,913 | \$ 3,097,662 | \$ 610,799 | \$ 4,938,374 |
| SUBTOTAL (Costs): | \$ 13,496,376 | \$ 4,886,771 | \$ 1,601,644 | \$ 19,984,791 |
| CONTRACTOR MARK-UP (OH&P) | \$ 2,429,348 | \$ 879,619 | \$ 288,296 | \$ 3,597,262 |
| SUBTOTAL: | \$ 15,925,724 | \$ 5,766,390 | \$ 1,889,940 | \$ 23,582,053 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 3,185,145 | \$ 1,153,278 | \$ 377,988 | \$ 4,716,411 |
| TOTAL: | \$ 19,110,868 | \$ 6,919,667 | \$ 2,267,928 | \$ 28,298,464 |

| Description of Work: Modification at existitng 138kv EGC station | | | | | | | | | | |
|--|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
| 17. Existing East Garden City 138 kV Substation Upgrades | | | | | | | | | | |
| 1. SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | | | | |
| 1.1 | Site Clearing | | ACRE | - | 10,800.00 | 7,200.00 | \$ - | \$ - | \$ - | \$ - |
| 1.2 | Demolition | | LS | - | 900,000.00 | 600,000.00 | \$ - | \$ - | \$ - | \$ - |
| 1.3 | New Access Road - 20' | | SY | 4.85 | 7.20 | 4.80 | \$ - | \$ - | \$ - | \$ - |
| 1.4 | Strip and Dispose Top Soil | | CY | | 24.50 | 10.50 | \$ - | \$ - | \$ - | \$ - |
| 1.5 | Site Grading- Excavation for Substation Pad | | CY | | 9.00 | 6.00 | \$ - | \$ - | \$ - | \$ - |
| 1.6 | Site Grading- Excavation for Substation Pad-Rock excavation-Hauling and disposal | | CY | | 21.00 | 9.00 | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Site Grading- Fill for Substation Pad (site borrow, compacted in place) | | CY | | 2.40 | 1.60 | \$ - | \$ - | \$ - | \$ - |
| 1.8 | Site Grading -Fill for Substation Pad (import, compacted in place) | | CY | 25.00 | 2.40 | 1.60 | \$ - | \$ - | \$ - | \$ - |
| 1.9 | Blasting | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 1.10 | Install substation 8" pad base | | SY | 11.00 | 6.00 | 4.00 | \$ - | \$ - | \$ - | \$ - |
| 1.11 | Site Surfacing - Aggregate 6" Thick | | SY | 16.50 | 4.50 | 3.00 | \$ - | \$ - | \$ - | \$ - |
| 1.12 | 7' Station Fence w/ Barbed Wire & Grounding | | LF | 13.85 | 13.85 | 6.92 | \$ - | \$ - | \$ - | \$ - |
| 1.13 | 20' Slide Gate & Grounding | | EA | 8,100.00 | 3,245.00 | 1,305.00 | \$ - | \$ - | \$ - | \$ - |
| 1.14 | 4' Pedestrian gate | | EA | 2,500.00 | 1,000.00 | 350.00 | \$ - | \$ - | \$ - | \$ - |
| 1.15 | Storm drain-15" HDPE, INFILTRATION TRENCH, INLET and Hydrodynamic Separator | | LS | 446,976.00 | 115,200.00 | 76,104.00 | \$ - | \$ - | \$ - | \$ - |
| 1.16 | Seeding | | SF | 1.50 | 1.50 | 1.00 | \$ - | \$ - | \$ - | \$ - |
| 1.17 | Erosion Control-Silt fence install & remove | | LF | 2.41 | 3.16 | 0.72 | \$ - | \$ - | \$ - | \$ - |
| 1.18 | Temporary fencing | | LF | 7.50 | 5.25 | 2.25 | \$ - | \$ - | \$ - | \$ - |
| 1.19 | Substation entrance with asphalt | | SY | 19.50 | 26.00 | 19.50 | \$ - | \$ - | \$ - | \$ - |
| 1.20 | Concrete curb | | LF | 26.00 | 27.30 | 11.70 | \$ - | \$ - | \$ - | \$ - |
| 1.21 | Retaining Wall | | LF | 156.00 | 117.00 | 117.00 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SITE PREP/ GRADING/ FENCING / CIVIL | | | | | | | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|------------|
| 2. SUBSTATION FOUNDATIONS | | | | | | | | | | |
| 2.1 | 345kV, Lightning mast | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | 345kV, A Frame 70' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | 345kV, Bus support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.4 | 345kV, Bus support-3 Ph, low | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.5 | 345kV, Bus support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.6 | 345kV, GIS air terminal | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | 345kV, GIS support-1 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | 345kV, GIS support-3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.9 | 345kV, GIS Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.10 | 345kV, Cable sealing end | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | 345kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.12 | 345kV, Disconnect Switch | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.13 | 345/138KV, Power Transformer with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.14 | 345kV, Shunt Reactor with oil containment-225MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.15 | 345kV, Shunt Reactor with oil containment-50MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.16 | 345kV, Shunt Reactor with oil containment-25MVAR | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.17 | 345kV, Phase Angle Regulator with oil containment | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.18 | 345kV, Circuit Breaker (PASS) | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | 345kV, Circuit Breaker (GIS), outdoor rated | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.20 | 345Kv, GIS Enclosure-BLDG with generator pad | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.21 | 345kV, Surge arrester | - | CY | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 2.22 | 138kV, Phase Angle Regulator with oil containment | 154 | CY | 703.89 | 804.44 | 502.78 | \$ 108,398 | \$ 123,884 | \$ 77,427 | \$ 309,709 |
| 2.23 | 138kV, Circuit Breaker, Hybrid circuit breaker | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.24 | 138kV, Bus support-3 Ph, low | 43 | CY | 703.89 | 804.44 | 502.78 | \$ 30,126 | \$ 34,430 | \$ 21,519 | \$ 86,075 |
| 2.25 | 138kV, Bus support-1 Ph, low | 61 | CY | 703.89 | 804.44 | 502.78 | \$ 42,867 | \$ 48,990 | \$ 30,619 | \$ 122,476 |
| 2.26 | 138kV, Disconnect Switch | 73 | CY | 703.89 | 804.44 | 502.78 | \$ 51,187 | \$ 58,499 | \$ 36,562 | \$ 146,247 |
| 2.27 | 138kV, Cable sealing end | 24 | CY | 703.89 | 804.44 | 502.78 | \$ 17,062 | \$ 19,500 | \$ 12,187 | \$ 48,749 |
| 2.28 | 138kV, CCVT | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.29 | 138kV, A Frame 50' | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.30 | Firewall Foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Precast Firewall for transformer, PARs, reactors | - | SF | 25.00 | 15.00 | 10.00 | \$ - | \$ - | \$ - | \$ - |
| 2.32 | Precast Concrete Piles-12"X80' | - | EA | 18,000.00 | 3,200.00 | 2,800.00 | \$ - | \$ - | \$ - | \$ - |
| 2.33 | Local Control Cabinet foundation | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.34 | 138kV, GIS Enclosure-BLDG & control room | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| TOTAL - 345KV FOUNDATION | | | | | | | \$ 249,640 | \$ 285,303 | \$ 178,314 | \$ 713,257 |
| 3. SUBSTATION STRUCTURES | | | | | | | | | | |
| 3.1 | 345kV, Lightning mast | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 3.2 | 345kV, A Frame 70' | 0 | EA | 48,100.00 | 28,860.00 | 19,240.00 | \$ - | \$ - | \$ - | \$ - |
| 3.3 | 345kV, Bus support-3 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.4 | 345kV, Bus support-3 Ph, low | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | 345kV, Bus support-1 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | 345kV, GIS air terminal | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | 345kV, GIS support-1 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | 345kV, GIS support-3 Ph | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | 345kV, GIS Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | 345kV, Cable sealing end | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 3.11 | 345kV, CCVT | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 3.12 | 345kV, Disconnect Switch | 0 | EA | 19,240.00 | 11,544.00 | 7,696.00 | \$ - | \$ - | \$ - | \$ - |
| 3.13 | 138kV, Bus support-3 Ph, low | 4 | EA | 4,173.00 | 2,879.76 | 1,919.84 | \$ 16,692 | \$ 11,519 | \$ 7,679 | \$ 35,890 |
| 3.14 | 138kV, Bus support-1 Ph, low | 15 | EA | 2,782.00 | 1,919.84 | 1,279.89 | \$ 41,730 | \$ 28,798 | \$ 19,198 | \$ 89,726 |
| 3.15 | 138kV, Disconnect Switch | 3 | EA | 4,896.84 | 4,896.84 | 2,448.42 | \$ 14,691 | \$ 14,691 | \$ 7,345 | \$ 36,726 |
| 3.16 | 138kV, Cable sealing end | 2 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ 9,620 | \$ 5,772 | \$ 3,848 | \$ 19,240 |
| 3.17 | 138kV, CCVT | 0 | EA | 3,206.67 | 1,924.00 | 1,282.67 | \$ - | \$ - | \$ - | \$ - |
| 3.18 | 138kV, A Frame 50' | 0 | EA | 33,000.00 | 19,800.00 | 13,200.00 | \$ - | \$ - | \$ - | \$ - |
| 3.19 | AL. Bus Tubing, 5" SCH 80 | 1,100 | LF | 25.00 | 184.94 | 123.29 | \$ 27,500 | \$ 203,432 | \$ 135,621 | \$ 366,553 |
| 3.20 | AL. Bus fittings | 1 | LS | 33,000.00 | 33,000.00 | 45,000.00 | \$ 33,000 | \$ 33,000 | \$ 45,000 | \$ 111,000 |
| 3.21 | Steel grating and support beams-transformer moat | 43,280 | LB | 2.73 | 1.17 | 0.50 | \$ 118,233 | \$ 50,594 | \$ 21,683 | \$ 190,511 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL - SUBSTATION STRUCTURES & GAS-INSULATED CONDUCTOR | | | | | | | \$ 261,466 | \$ 347,805 | \$ 240,376 | \$ 849,646 |
| 4. MAJOR EQUIPMENT | | | | | | | | | | |
| 4.1 | 345kV, GIS air terminal | 0.00 | EA | | | | | | | |
| 4.2 | 345kV, GIS Cable sealing end | 0 | EA | | | | | \$ - | \$ - | \$ - |
| 4.3 | 345kV, Cable sealing end | 0 | EA | 17,400.00 | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.4 | 345kV, CCVT | 0 | EA | | 15,941.99 | 6,832.28 | \$ - | \$ - | \$ - | \$ - |
| 4.5 | 345kV, Disconnect Switch | 0 | EA | 57,720.00 | 34,632.00 | 23,088.00 | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|-------------------------------------|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 4.6 | 345/138KV, Power Transformer with oil containment | 0 | EA | | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.7 | Transport & Testing- Transformer | 0 | EA | | 15,400.00 | 6,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.8 | 345kV, Shunt Reactor with oil containment-225MVAR | 0 | EA | 3,026,425.00 | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.9 | 345kV, Shunt Reactor with oil containment-50MVAR | 0 | EA | 2,138,451.50 | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.10 | 345kV, Shunt Reactor with oil containment-25MVAR | 0 | EA | 1,900,130.50 | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.11 | Transport & Testing- Shunt Reactor | 0 | EA | | 272,900.20 | 178,266.80 | \$ - | \$ - | \$ - | \$ - |
| 4.12 | 345kV, Phase Angle Regulator with oil containment | 0 | EA | 25,764,000.00 | 3,520.00 | 880.00 | \$ - | \$ - | \$ - | \$ - |
| 4.11 | Transport & Testing- PARs | 0 | EA | | 1,215,400.00 | 806,600.00 | \$ - | \$ - | \$ - | \$ - |
| 4.13 | 345kV, Gas Insulated Switchgear, BAAH Arrangement | 0 | BKR | 838,571.43 | 503,142.86 | 335,428.57 | \$ - | \$ - | \$ - | \$ - |
| 4.14 | 345kV, Circuit Breaker (PASS) | 0 | EA | | 57,239.00 | 24,531.00 | \$ - | \$ - | \$ - | \$ - |
| 4.15 | 345kV, Circuit Breaker (GIS), outdoor rated | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.16 | 345kV, Circuit Breaker (GIS), outdoor rated-Line surge Arrester (3phase) | 0 | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 4.17 | 345kV, surge Arrester | 0 | EA | 6,669.00 | 5,460.00 | 2,340.00 | \$ - | \$ - | \$ - | \$ - |
| 4.18 | 138kV, Phase Angle Regulator with oil containment | 1 | EA | 10,366,370.00 | 3,520.00 | 880.00 | \$ 10,366,370 | \$ 3,520 | \$ 880 | \$ 10,370,770 |
| 4.19 | Transport & Testing- Phase Angle Regulating Transformer, 138kV | 1 | EA | | 336,400.00 | 220,600.00 | \$ - | \$ 336,400 | \$ 220,600 | \$ 557,000 |
| 4.20 | 138kV, Gas Insulated Switchgear, BAAH Arrangement | 0 | BKR | | 205,800.00 | 4,200.00 | \$ - | \$ - | \$ - | \$ - |
| 4.21 | 138kV, Circuit Breaker, Hybrid circuit breaker | 0 | EA | | 13,559.00 | 5,811.00 | \$ - | \$ - | \$ - | \$ - |
| 4.22 | 138kV, Disconnect Switch | 3 | EA | 37,700.00 | 11,875.50 | 5,089.50 | \$ 113,100 | \$ 35,627 | \$ 15,269 | \$ 163,995 |
| 4.23 | 138kV, Cable sealing end | 6 | EA | 11,600.00 | 5,460.00 | 2,340.00 | \$ 69,600 | \$ 32,760 | \$ 14,040 | \$ 116,400 |
| 4.24 | 138kV, CCVT | 0 | EA | | 7,970.08 | 3,415.75 | \$ - | \$ - | \$ - | \$ - |
| 4.25 | 138kV, Surge arrester | 12 | EA | 4,446.00 | 4,200.00 | 1,800.00 | \$ 53,352 | \$ 50,400 | \$ 21,600 | \$ 125,352 |
| 4.26 | Station service transformers- 120/208v-250VA | 0 | EA | 260,000.00 | 45,500.00 | 19,500.00 | \$ - | \$ - | \$ - | \$ - |
| 4.27 | 345kV Gas-Insulated Bus Conductor | 0 | LF | 550.00 | 275.00 | 82.50 | \$ - | \$ - | \$ - | \$ - |
| 4.28 | 345kV Gas-Insulated Bus Conductor-elbow | 0 | EA | 2,500.00 | 1,250.00 | 375.00 | \$ - | \$ - | \$ - | \$ - |
| 4.29 | Transport & Testing- GIL | 0 | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| TOTAL - MAJOR EQUIPMENT | | | | | | | \$ 10,602,422 | \$ 458,707 | \$ 272,389 | \$ 11,333,517 |
| 5. LOW VOLTAGE & CONTROL CABLE | | | | | | | | | | |
| 5.1 | Control Cables | 4,800 | LF | 5.30 | 1.43 | 0.29 | \$ 25,428 | \$ 6,876 | \$ 1,375 | \$ 33,679 |
| 5.2 | | | LF | | - | - | \$ - | \$ - | \$ - | \$ - |
| TOTAL - LOW VOLTAGE & CONTROL CABLE | | | | | | | \$ 25,428 | \$ 6,876 | \$ 1,375 | \$ 33,679 |
| 6. CONDUIT & CABLE TRENCH | | | | | | | | | | |
| 6.1 | Conduit, PVC, 6", SCH 40 | | LF | 20.70 | 13.28 | 6.64 | \$ - | \$ - | \$ - | \$ - |
| 6.2 | Conduit, PVC, 4", SCH 40 | 1,050 | LF | 11.15 | 10.80 | 5.40 | \$ 11,708 | \$ 11,340 | \$ 5,670 | \$ 28,718 |
| 6.3 | Conduit, PVC, 3", SCH 40 | | LF | 8.10 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.4 | Conduit, PVC, 2", SCH 40 | | LF | 3.95 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.5 | Conduit, PVC, 1", SCH 40 | | LF | 1.90 | 10.80 | 5.40 | \$ - | \$ - | \$ - | \$ - |
| 6.6 | Cable Trench | 375 | LF | 266.50 | 53.04 | 13.26 | \$ 99,938 | \$ 19,890 | \$ 4,973 | \$ 124,800 |
| 6.7 | | | | | | | | | | |
| 6.8 | 138kV UG- Conduit | 720 | LF | 266.73 | 202.15 | 100.00 | \$ 192,046 | \$ 145,545 | \$ 72,004 | \$ 409,595 |
| 6.9 | 138kV UG- Cable | 2,268 | LF | 145.00 | 87.00 | 58.00 | \$ 328,860 | \$ 197,316 | \$ 131,544 | \$ 657,720 |
| 6.10 | 138kV UG- Termination | 6 | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ 166,830 | \$ 59,079 | \$ 16,880 | \$ 242,789 |
| 6.11 | 345kV UG- Conduit | 0 | LF | 266.73 | 202.15 | 100.00 | \$ - | \$ - | \$ - | \$ - |
| 6.12 | 345kV UG- Cable | | LF | 167.00 | 100.20 | 66.80 | \$ - | \$ - | \$ - | \$ - |
| 6.13 | 345kV UG- Termination | | EA | 27,805.00 | 9,846.48 | 2,813.28 | \$ - | \$ - | \$ - | \$ - |
| 6.14 | Fiber Optic Cable | 720 | LF | 7.40 | 3.33 | 2.22 | \$ 5,326 | \$ 2,398 | \$ 1,599 | \$ 9,323 |
| 6.15 | Ground Continuity Conductor | 720 | LF | 13.04 | 7.53 | 5.02 | \$ 9,388 | \$ 5,419 | \$ 3,613 | \$ 18,420 |
| 6.16 | | | | | | | | | | |
| 6.17 | | | | | | | \$ - | \$ - | \$ - | \$ - |
| TOTAL - CONDUIT & CABLE TRENCH | | | | | | | \$ 814,095 | \$ 440,988 | \$ 236,281 | \$ 1,491,364 |
| 7. GROUND GRID | | | | | | | | | | |
| 7.1 | Cable, 4/0 AWG Bare Copper, 7 Strand Ground Conductor | 1,470 | LF | 2.09 | 3.42 | 1.46 | \$ 3,074 | \$ 5,020 | \$ 2,152 | \$ 10,246 |
| 7.2 | Caweld, DSA, 4/0 , T, CROSS | 45 | EA | 165.00 | 75.00 | | \$ 7,425 | \$ 3,375 | \$ - | \$ 10,800 |
| 7.3 | Ground Rod, 3/4" x 15' | 32 | EA | 135.00 | 67.50 | 7.50 | \$ 4,320 | \$ 2,160 | \$ 240 | \$ 6,720 |
| TOTAL - GROUND GRID | | | | | | | \$ 14,819 | \$ 10,555 | \$ 2,392 | \$ 27,766 |
| 8. CONTROL ENCLOSURE | | | | | | | | | | |
| 8.1 | 345kv GIS Bldg | 0 | EA | 3,817,603.08 | 2,672,322.16 | 1,145,280.92 | \$ - | \$ - | \$ - | \$ - |
| 8.2 | 138kv GIS/Control Bldg | 0 | EA | 1,145,280.92 | 801,696.65 | 343,584.28 | \$ - | \$ - | \$ - | \$ - |
| 8.3 | Primary Line Relays (87L): SEL-411L | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.4 | Backup Line Relays (87L): GE L90 | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.5 | Primary Bay Control: SEL-451 | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.6 | Backup Bay Control: SEL-451 | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.7 | Primary Transformer/Reactor/PAR Differential Relays: SEL-487E | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.8 | Backup Transformer/Reactor/PAR Differential Relays: GE T60 | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.9 | Primary Bus Differential Relays: SEL-487B | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.10 | Backup Bus Differential Relays: GE B90 | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL COST |
|--|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 8.11 | RTU Panel A: SEL-2240 Axion, SEL-2730M ENET SW., SEL-2407 GPS, Modem, SEL-2523 Annunciator, JMUX | | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ - | \$ - | \$ - | \$ - |
| 8.12 | RTU Panel B: SEL-2730M Ethernet Switch, SEL-2407 GPS Clock, SEL-2523 Annunciator | | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ - | \$ - | \$ - | \$ - |
| 8.13 | HMI Panel | | EA | 12,500.00 | 10,000.00 | 2,500.00 | \$ - | \$ - | \$ - | \$ - |
| 8.14 | Primary Line Relays (87L): SEL-411L | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.15 | Backup Line Relays (87L): GE L90 | | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ - | \$ - | \$ - | \$ - |
| 8.16 | Primary Line Relays (87L): SEL-411L | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.17 | Backup Line Relays (87L): GE L90 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.18 | Primary Transformer/Reactor/PAR Differential Relays: SEL-487E | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.19 | Backup Transformer/Reactor/PAR Differential Relays: GE T60 | 1 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 21,328 | \$ 17,062 | \$ 4,266 | \$ 42,656 |
| 8.20 | Primary Bus Differential Relays: SEL-487B | 5 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 106,641 | \$ 85,312 | \$ 21,328 | \$ 213,281 |
| 8.21 | Backup Bus Differential Relays: GE B90 | 5 | EA | 21,328.12 | 17,062.49 | 4,265.62 | \$ 106,641 | \$ 85,312 | \$ 21,328 | \$ 213,281 |
| 8.22 | 125VDC Battery System | | LS | 25,000.00 | 22,750.00 | 9,750.00 | \$ - | \$ - | \$ - | \$ - |
| 8.23 | Control house AC Panel | | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ - | \$ - | \$ - | \$ - |
| 8.24 | Control House DC Panel | | EA | 65,000.00 | 91,000.00 | 39,000.00 | \$ - | \$ - | \$ - | \$ - |
| 8.25 | Generator | | EA | 130,000.00 | 72,800.00 | 31,200.00 | \$ - | \$ - | \$ - | \$ - |
| TOTAL - CONTROL ENCLOSURE | | | | | | | \$ 298,594 | \$ 238,875 | \$ 59,719 | \$ 597,187 |
| 17. Existing East Garden City 138 kV Substation Upgrades | | | | | | | \$ 12,266,463 | \$ 1,789,109 | \$ 990,845 | \$ 15,046,417 |
| 9. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 9.1 | Mob / Demob | 1.0 | LS | | 97,298.38 | 41,699.31 | \$ - | \$ 97,298 | \$ 41,699 | \$ 138,998 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 9.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 150,464.17 | | \$ - | \$ 150,464 | \$ - | \$ 150,464 |
| 9.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1 | LS | | 601,856.67 | | \$ - | \$ 601,857 | \$ - | \$ 601,857 |
| 9.4 | Utility PM and Project Oversight | 1 | LS | | 150,464.17 | | \$ - | \$ 150,464 | \$ - | \$ 150,464 |
| 9.5 | Site Accommodation, Facilities, Storage | 1 | LS | 150,464.17 | | | \$ 150,464 | \$ - | \$ - | \$ 150,464 |
| | Engineering | | | | | | | | | |
| 9.6 | Design Engineering | 1.00 | LS | | 1,203,713.34 | | \$ - | \$ 1,203,713 | \$ - | \$ 1,203,713 |
| 9.7 | LiDAR /GPR | - | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 9.8 | Geotech | 5.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 13,650 | \$ 9,100 | \$ 22,750 |
| 9.9 | Surveying/Staking | 1.00 | Site | | 105,324.92 | | \$ - | \$ 105,325 | \$ - | \$ 105,325 |
| | Testing & Commissioning | | | | | | | | | |
| 9.10 | Testing & Commissioning of SS and Equipment | 1.00 | LS | | 564,240.63 | | \$ - | \$ 564,241 | \$ - | \$ 564,241 |
| | Permitting and Additional Costs | | | | | | | | | |
| 9.11 | Physical Security | | LS | | 6,546.96 | | \$ - | \$ - | \$ - | \$ - |
| 9.12 | Environmental Licensing & Permitting Costs & related legal cost | 1.00 | LS | | 150,464.17 | | \$ - | \$ 150,464 | \$ - | \$ 150,464 |
| 9.13 | Environmental-special studies/investigation | - | LS | | - | | \$ - | \$ - | \$ - | \$ - |
| 9.14 | Warranties / LOC's | 1.00 | LS | | 45,139.25 | | \$ - | \$ 45,139 | \$ - | \$ 45,139 |
| 9.15 | Laydown Lease | - | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 9.16 | Real Estate (Acquisition) | | LS | | - | 31,050,000.00 | \$ - | \$ - | \$ - | \$ - |
| 9.17 | Legal Fees (Real estate) | - | LS | | - | 931,500.00 | \$ - | \$ - | \$ - | \$ - |
| 9.18 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 9.19 | Bonds | 1 | LS | | - | \$ 560,000 | \$ - | \$ - | \$ 560,000 | \$ 560,000 |
| 9.20 | Sales Tax on Materials | 8.80% | LS | 12,266,462.98 | | | \$ 1,079,449 | \$ - | \$ - | \$ 1,079,449 |
| 9.21 | Fees for permits, including roadway, railroad, building or other local permits | 1.00 | LS | | 15,046.42 | | \$ - | \$ 15,046 | \$ - | \$ 15,046 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 1,229,913 | \$ 3,097,662 | \$ 610,799 | \$ 4,938,374 |

| | |
|---|----------------|
| <p align="center"> <u>NEXtera Energy- TO41 Core 6</u> <u>Comp 4 - Dunwoodie To New Rochelle Landing 345kV Onshore UG Cables -single circuit</u> <u>(EGC To Dunwoodie 345 kV)</u> </p> | |
| Total: | \$ 188,625,656 |

| | |
|--|------------------------------|
| | Total: \$ 188,625,656 |
|--|------------------------------|

| NEXtera Energy- TO41 Core 6 | | | | |
|---|-----------------|---------------|---------------|----------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| Comp 4 - Dunwoodie To New Rochelle Landing 345kV Onshore UG Cables -single circuit(EGC To Dunwoodie 345 kV) | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | \$ 2,044,864 | \$ 10,048,478 | \$ 4,020,386 | \$ 16,113,728 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | \$ 14,363,368 | \$ 14,404,930 | \$ 9,713,465 | \$ 38,481,763 |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | \$ 25,812,070 | \$ 15,635,513 | \$ 10,063,576 | \$ 51,511,158 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 4,810,229 | \$ 16,648,918 | \$ 5,644,412 | \$ 27,103,560 |
| SUBTOTAL (Costs): | \$ 47,030,531 | \$ 56,737,840 | \$ 29,441,838 | \$ 133,210,209 |
| CONTRACTOR MARK-UP (OH&P) | \$ 8,465,496 | \$ 10,212,811 | \$ 5,299,531 | \$ 23,977,838 |
| SUBTOTAL: | \$ 55,496,027 | \$ 66,950,651 | \$ 34,741,369 | \$ 157,188,047 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 11,099,205 | \$ 13,390,130 | \$ 6,948,274 | \$ 31,437,609 |
| TOTAL: | \$ 66,595,232 | \$ 80,340,781 | \$ 41,689,643 | \$ 188,625,656 |

| Description of Work: Dunwoodie - New Rochelle Landing (single cable duct). 5000 kcmil copper XLPE, single cable per phase. | | | | | | | | | | |
|--|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
| Comp 4 - Dunwoodie To New Rochelle Landing 345kV Onshore UG Cables -single circuit(EGC To Dunwoodie 345 kV) | | | | | | | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | | | | | | | | | | |
| 1.1 | Environmental BMPs / SWPPP Installation, Maintenance & Repairs | 0 | LF | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 1.2 | Existing Utility Conflict and Relocation | 8.21 | Mile | | \$ 700,000 | \$ 300,000 | \$ - | \$ 5,747,000 | \$ 2,463,000 | \$ 8,210,000 |
| 1.3 | Flaggers | 260 | DAY | \$ 1,600 | \$ 4,800 | \$ 1,600 | \$ 416,000 | \$ 1,248,000 | \$ 416,000 | \$ 2,080,000 |
| 1.4 | K Rail / Lane Control / Metal Plates | 43,349 | LF | \$ 30 | \$ 18 | \$ 12 | \$ 1,300,464 | \$ 780,278 | \$ 520,186 | \$ 2,600,928 |
| 1.5 | Police Support | 10,400.0 | HR | | \$ 120 | \$ 27 | \$ - | \$ 1,248,000 | \$ 280,800 | \$ 1,528,800 |
| 1.6 | Additional Traffic Management | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Access / Clearing Costs | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.8 | Snow Removal | 40.0 | DAY | | \$ 1,000 | \$ 300 | \$ - | \$ 40,000 | \$ 12,000 | \$ 52,000 |
| 1.9 | Existing Utility Protection | 8.21 | Mile | \$ 40,000 | \$ 120,000 | \$ 40,000 | \$ 328,400 | \$ 985,200 | \$ 328,400 | \$ 1,642,000 |
| TOTAL - SITE PREP/ACCESS/TRAFFIC MANAGEMENT/ ACCESS: | | | | | | | \$ 2,044,864 | \$ 10,048,478 | \$ 4,020,386 | \$ 16,113,728 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | | | | | | | | | | |
| 2.1 | Trench Box Shoring & Trench Box Install Crew | 8 | Miles | | \$ 139,800 | \$ 93,200 | \$ - | \$ 1,147,758 | \$ 765,172 | \$ 1,912,930 |
| 2.2 | Formwork in Trench | 335,070 | SF | \$ 2 | \$ 1.5 | \$ 0.5 | \$ 670,141 | \$ 502,606 | \$ 167,535 | \$ 1,340,282 |
| 2.3 | Trench Excavation | 16,754 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ 293,187 | \$ 125,651 | \$ 418,838 |
| 2.4 | Supply & Install 6" Sand Bedding for direct bury conduits | 1,745 | SF | \$ 50 | \$ 25 | \$ 14 | \$ 87,258 | \$ 42,756 | \$ 24,432 | \$ 154,447 |
| 2.5 | Supply & Install Thermal Backfill | 14,659 | CY | \$ 350 | \$ 245 | \$ 105 | \$ 5,130,766 | \$ 3,591,536 | \$ 1,539,230 | \$ 10,261,531 |
| 2.6 | Supply & Install Concrete Cap (6") | 0 | CY | \$ 200 | \$ 125 | \$ 50 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | Native Backfill -direct bury conduits sys Trench | 0 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | Supply & Install Ductbank Concrete | 6,825 | CY | \$ 200 | \$ 125 | \$ 50 | \$ 1,364,947 | \$ 853,092 | \$ 341,237 | \$ 2,559,275 |
| 2.9 | Conduit 8" SCH 40PVC | 173,395 | LF | \$ 28.6 | \$ 5.7 | \$ 2.4 | \$ 4,959,103 | \$ 983,151 | \$ 421,350 | \$ 6,363,604 |
| 2.10 | Conduit 4" SCH 40PVC | 0 | LF | \$ 9.8 | \$ 4.20 | \$ 1.8 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | Conduit 2" SCH 40PVC | 86,698 | LF | \$ 3.5 | \$ 3.15 | \$ 1.4 | \$ 305,176 | \$ 273,097 | \$ 117,042 | \$ 695,315 |
| 2.12 | Warning Tape | 86,698 | LF | \$ 0.15 | \$ 0.25 | \$ 0.10 | \$ 13,005 | \$ 21,674 | \$ 8,670 | \$ 43,349 |
| 2.13 | Trench Box Shoring (Vault) | 30 | EA | \$ - | \$ 18,079 | \$ 27,119 | \$ - | \$ 542,373 | \$ 813,559 | \$ 1,355,932 |
| 2.14 | Splice Vault Excavation | 2,992 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ 52,360 | \$ 22,440 | \$ 74,800 |
| 2.15 | Splice Vault Supply & Installation | 30 | EA | \$ 35,000 | \$ 16,500 | \$ 38,500 | \$ 1,050,000 | \$ 495,000 | \$ 1,155,000 | \$ 2,700,000 |
| 2.16 | Splice Vault Backfill | 898 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ 12,566 | \$ 5,386 | \$ 17,952 |
| 2.17 | Jack and Bore along Route | 565 | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ 452,000 | \$ 904,000 | \$ 904,000 | \$ 2,260,000 |
| 2.18 | HDD along Route | | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | Air Test Ducts | 260,093 | LF | | | \$ 0.25 | \$ - | \$ - | \$ 65,023 | \$ 65,023 |
| 2.20 | PVMT, ASPHALT, 2" SURFACE COURSE | 16,371 | SY | \$ 14.00 | \$ 14.00 | \$ 7.00 | \$ 229,199 | \$ 229,199 | \$ 114,600 | \$ 572,998 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
|---|---|--------------------|--------------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------|
| 2.21 | PVMT, AGGREGATE, 10", BASE COURSE | 4,548 | CY | \$ 22.38 | \$ 23.50 | \$ 10.07 | \$ 101,775 | \$ 106,864 | \$ 45,799 | \$ 254,438 |
| 2.22 | Concrete Ductbank Thermal Resistivity Testing (every 100CY of concrete poured) | 68 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ 27,299 | \$ 81,897 | \$ 109,196 |
| 2.23 | Concrete Ductbank Compressive Strength Testing (every 100CY of concrete poured) | 68 | EA | | \$ 10 | \$ 15 | \$ - | \$ 682 | \$ 1,024 | \$ 1,706 |
| 2.24 | Backfill Thermal Resistivity Testing (every 100CY of backfill placed) | 147 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ 58,637 | \$ 175,912 | \$ 234,549 |
| 2.25 | Additional misc. testing allowance (Native Backfill, Asphalt Density, Concrete Curb etc.) | 1 | LS | | \$ 448,266 | \$ 298,844 | \$ - | \$ 448,266 | \$ 298,844 | \$ 747,110 |
| 2.26 | Excess Materials Disposal to Certified Backfill | 24,502 | CY | | \$ 24.5 | \$ 10.5 | \$ - | \$ 600,306 | \$ 257,274 | \$ 857,580 |
| 2.27 | Rock Excavation and Removal | 13,164 | CY | | \$ 243 | \$ 162 | \$ - | \$ 3,198,774 | \$ 2,132,516 | \$ 5,331,290 |
| 2.28 | Dewatering | 30 | EA | | | \$ 4,000 | \$ - | \$ - | \$ 120,000 | \$ 120,000 |
| 2.29 | Contaminated Water Treatment and Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.30 | Contaminated Spoils Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Excavated material - stockpile management | 19,746 | CF | | \$ 1.0 | \$ 0.5 | \$ - | \$ 19,746 | \$ 9,873 | \$ 29,618 |
| TOTAL - ONSHORE CABLE CONDUITS & VAULTS INSTALLATION: | | | | | | | \$ 14,363,368 | \$ 14,404,930 | \$ 9,713,465 | \$ 38,481,763 |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | | | | |
| 3.1 | Circuit #1- Procurement & Installation- 345kV 5000 kcmil copper XLPE | 136,549 | FT | \$ 167 | \$ 100 | \$ 67 | \$ 22,803,636 | \$ 13,682,182 | \$ 9,121,454 | \$ 45,607,272 |
| 3.2 | Circuit #1- Cable Splicing- 345kV 5000 kcmil copper XLPE | 90 | EA | \$ 11,722 | \$ 9,846 | \$ 2,813 | \$ 1,054,980 | \$ 886,183 | \$ 253,195 | \$ 2,194,358 |
| 3.3 | Circuit #1- Cable Termination- 345kV 5000 kcmil copper XLPE | 6 | EA | \$ 27,805 | \$ 9,846 | \$ 2,813 | \$ 166,830 | \$ 59,079 | \$ 16,880 | \$ 242,789 |
| 3.4 | Circuit #2- Procurement & Installation- 345kV 5000 kcmil copper XLPE | | FT | \$ 167 | \$ 100 | \$ 67 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | Circuit #2- Cable Splicing- 345kV 5000 kcmil copper XLPE | | EA | \$ 11,722 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | Circuit #2- Cable Termination- 345kV 5000 kcmil copper XLPE | | EA | \$ 27,805 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | Circuit #3- Procurement & Installation- 345kV 5000 kcmil copper XLPE | | FT | \$ 167 | \$ 100 | \$ 67 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | Circuit #3- Cable Splicing- 345kV 5000 kcmil copper XLPE | | EA | \$ 11,722 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | Circuit #3- Cable Termination- 345kV 5000 kcmil copper XLPE | | EA | \$ 27,805 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | Link Box & MH racking | 30 | EA | \$ 28,548 | \$ 17,129 | \$ 11,419 | \$ 856,454 | \$ 513,872 | \$ 342,581 | \$ 1,712,907 |
| 3.11 | Fiber Optic Cable | 45,516 | FT | \$ 7 | \$ 3 | \$ 2 | \$ 336,684 | \$ 151,596 | \$ 101,064 | \$ 589,344 |
| 3.12 | Ground Continuity Conductor | 45,516 | FT | \$ 13 | \$ 8 | \$ 5 | \$ 593,486 | \$ 342,601 | \$ 228,400 | \$ 1,164,487 |
| TOTAL - ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | \$ 25,812,070 | \$ 15,635,513 | \$ 10,063,576 | \$ 51,511,158 |
| Comp 4 - Dunwoodie To New Rochelle Landing 345kV Onshore UG Cables -single circuit(EGC To Dunwoodie 345 kV) | | | | | | | \$ 42,220,302 | \$ 40,088,921 | \$ 23,797,426 | \$ 106,106,649 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 4.1 | Mob / Demob | 1 | LS | | \$ 1,916,590 | \$ 1,277,727 | \$ - | \$ 1,916,590 | \$ 1,277,727 | \$ 3,194,317 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 4.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 1,061,066.49 | | \$ - | \$ 1,061,066 | \$ - | \$ 1,061,066 |
| 4.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1 | LS | | 4,244,265.98 | | \$ - | \$ 4,244,266 | \$ - | \$ 4,244,266 |
| 4.4 | Utility PM and Project Oversight | 1 | LS | | 1,061,066.49 | | \$ - | \$ 1,061,066 | \$ - | \$ 1,061,066 |
| 4.5 | Site Accommodation, Facilities, Storage | 1 | LS | 1,061,066.49 | | | \$ 1,061,066 | \$ - | \$ - | \$ 1,061,066 |
| | Engineering | | | | | | | | | |
| 4.6 | Design Engineering | 1.0 | LS | | \$ 5,305,332 | \$ - | \$ - | \$ 5,305,332 | \$ - | \$ 5,305,332 |
| 4.7 | LiDAR /GPR | 1.0 | LS | | \$ 190,992 | \$ 127,328 | \$ - | \$ 190,992 | \$ 127,328 | \$ 318,320 |
| 4.8 | Geotech | 9.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 24,570 | \$ 16,380 | \$ 40,950 |
| 4.9 | Surveying/Staking | 1 | LS | | \$ 445,648 | \$ 297,099 | \$ - | \$ 445,648 | \$ 297,099 | \$ 742,747 |
| | Testing & Commissioning | | | | | | | | | |
| 4.10 | Testing & Commissioning of T-Line and Equipment | 1 | EA | | \$ 20,000 | | \$ - | \$ 20,000 | \$ - | \$ 20,000 |
| | Permitting, Indirects and Additional Costs | | | | | | | | | |
| 4.11 | Environmental Licensing & Permitting Costs & related legal cost | 1 | LS | | \$ 1,061,066 | | \$ - | \$ 1,061,066 | \$ - | \$ 1,061,066 |
| 4.12 | Environmental-special studies/investigation | | LS | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| 4.13 | Warranties / LOC's | 1 | LS | | \$ 318,320 | | \$ - | \$ 318,320 | \$ - | \$ 318,320 |
| 4.14 | Laydown Lease & temporary easement | 1 | LS | | \$ 1,000,000 | | \$ - | \$ 1,000,000 | \$ - | \$ 1,000,000 |
| 4.15 | Real Estate (Acquisition) | 1 | LS | | | \$ 58,031 | \$ - | \$ - | \$ 58,031 | \$ 58,031 |
| 4.16 | Legal Fees (Real estate) | 1.00 | LS | | - | 1,740.93 | \$ - | \$ - | \$ 1,741 | \$ 1,741 |
| 4.17 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Insurance (specialty, e.g. railroad) | | Crossing | | | \$ 1,000 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Bonds | 1 | LS | | | \$ 3,760,000 | \$ - | \$ - | \$ 3,760,000 | \$ 3,760,000 |
| 4.20 | Sales Tax on Materials | 8.88% | % of material cost | \$ 42,220,301.83 | | | \$ 3,749,163 | \$ - | \$ - | \$ 3,749,163 |
| 4.21 | Fees for permits, including roadway, railroad, building or other local permits | 1 | LS | | | \$ 106,107 | \$ - | \$ - | \$ 106,107 | \$ 106,107 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 4,810,229 | \$ 16,648,918 | \$ 5,644,412 | \$ 27,103,560 |

| | |
|--|--|
| <p align="center"> <u>NEXTera Energy- TO41 Core 6</u> <u>Comp 4C - Sprain Brook To New Rochelle Landing Onshore 345kV UG Cables - Single circuit</u> <u>(Ruland To Sprain Brook 345 kV)</u> </p> <p align="center">Total: \$ 190,348,435</p> | |
|--|--|

| | |
|--|------------------------------|
| | Total: \$ 190,348,435 |
|--|------------------------------|

| NEXtera Energy- TO41 Core 6 | | | | |
|---|-----------------|---------------|---------------|----------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| Comp 4C - Sprain Brook To New Rochelle Landing Onshore 345kV UG Cables -Double circuits (EGC To Sprain Brook 345 kV / Ruland To Sprain Brook 345 kV) | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | \$ 2,096,448 | \$ 10,286,389 | \$ 4,125,259 | \$ 16,508,096 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | \$ 14,428,213 | \$ 13,991,584 | \$ 9,068,290 | \$ 37,488,087 |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | \$ 26,563,688 | \$ 16,084,460 | \$ 10,362,874 | \$ 53,011,023 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 4,896,317 | \$ 16,766,065 | \$ 5,757,273 | \$ 27,419,655 |
| SUBTOTAL (Costs): | \$ 47,984,667 | \$ 57,128,499 | \$ 29,313,695 | \$ 134,426,861 |
| CONTRACTOR MARK-UP (OH&P) | \$ 8,637,240 | \$ 10,283,130 | \$ 5,276,465 | \$ 24,196,835 |
| SUBTOTAL: | \$ 56,621,907 | \$ 67,411,628 | \$ 34,590,161 | \$ 158,623,696 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 11,324,381 | \$ 13,482,326 | \$ 6,918,032 | \$ 31,724,739 |
| TOTAL: | \$ 67,946,288 | \$ 80,893,954 | \$ 41,508,193 | \$ 190,348,435 |

| Description of Work: Dunwoodie - New Rochelle Landing (single circuit duct). 5000 kcmil copper XLPE, single cable per phase. | | | | | | | | | | |
|---|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
| Comp 4C - Sprain Brook To New Rochelle Landing Onshore 345kV UG Cables -Double circuits(EGC To Sprain Brook 345 kV / Ruland To Sprain Brook 345 kV) | | | | | | | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | | | | | | | | | | |
| 1.1 | Environmental BMPs / SWPPP Installation, Maintenance & Repairs | 0 | LF | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 1.2 | Existing Utility Conflict and Relocation | 8.47 | Mile | | \$ 700,000 | \$ 300,000 | \$ - | \$ 5,929,000 | \$ 2,541,000 | \$ 8,470,000 |
| 1.3 | Flaggers | 260 | DAY | \$ 1,600 | \$ 4,800 | \$ 1,600 | \$ 416,000 | \$ 1,248,000 | \$ 416,000 | \$ 2,080,000 |
| 1.4 | K Rail / Lane Control / Metal Plates | 44,722 | LF | \$ 30 | \$ 18 | \$ 12 | \$ 1,341,648 | \$ 804,989 | \$ 536,659 | \$ 2,683,296 |
| 1.5 | Police Support | 10,400.0 | HR | | \$ 120 | \$ 27 | \$ - | \$ 1,248,000 | \$ 280,800 | \$ 1,528,800 |
| 1.6 | Additional Traffic Management | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Access / Clearing Costs | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.8 | Snow Removal | 40.0 | DAY | | \$ 1,000 | \$ 300 | \$ - | \$ 40,000 | \$ 12,000 | \$ 52,000 |
| 1.9 | Existing Utility Protection | 8.47 | Mile | \$ 40,000 | \$ 120,000 | \$ 40,000 | \$ 338,800 | \$ 1,016,400 | \$ 338,800 | \$ 1,694,000 |
| TOTAL - SITE PREP/ACCESS/TRAFFIC MANAGEMENT/ ACCESS: | | | | | | | \$ 2,096,448 | \$ 10,286,389 | \$ 4,125,259 | \$ 16,508,096 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | | | | | | | | | | |
| 2.1 | Trench Box Shoring & Trench Box Install Crew | 8 | Miles | | \$ 139,800 | \$ 93,200 | \$ - | \$ 1,184,106 | \$ 789,404 | \$ 1,973,510 |
| 2.2 | Formwork in Trench | 350,573 | SF | \$ 2 | \$ 1.5 | \$ 0.5 | \$ 701,146 | \$ 525,859 | \$ 175,286 | \$ 1,402,291 |
| 2.3 | Trench Excavation | 17,529 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ 306,751 | \$ 131,465 | \$ 438,216 |
| 2.4 | Supply & Install 6" Sand Bedding for direct bury conduits | 1,826 | SF | \$ 50 | \$ 25 | \$ 14 | \$ 91,295 | \$ 44,735 | \$ 25,563 | \$ 161,592 |
| 2.5 | Supply & Install Thermal Backfill | 15,338 | CY | \$ 350 | \$ 245 | \$ 105 | \$ 5,368,146 | \$ 3,757,702 | \$ 1,610,444 | \$ 10,736,292 |
| 2.6 | Supply & Install Concrete Cap (6") | 0 | CY | \$ 200 | \$ 125 | \$ 50 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | Native Backfill -direct bury conduits sys Trench | 0 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | Supply & Install Ductbank Concrete | 7,140 | CY | \$ 200 | \$ 125 | \$ 50 | \$ 1,428,097 | \$ 892,561 | \$ 357,024 | \$ 2,677,682 |
| 2.9 | Conduit 8" SCH 40PVC | 178,886 | LF | \$ 28.6 | \$ 5.7 | \$ 2.4 | \$ 5,116,151 | \$ 1,014,286 | \$ 434,694 | \$ 6,565,131 |
| 2.10 | Conduit 4" SCH 40PVC | 0 | LF | \$ 9.8 | \$ 4.20 | \$ 1.8 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | Conduit 2" SCH 40PVC | 89,443 | LF | \$ 3.5 | \$ 3.15 | \$ 1.4 | \$ 314,840 | \$ 281,746 | \$ 120,748 | \$ 717,334 |
| 2.12 | Warning Tape | 89,443 | LF | \$ 0.15 | \$ 0.25 | \$ 0.10 | \$ 13,416 | \$ 22,361 | \$ 8,944 | \$ 44,722 |
| 2.13 | Trench Box Shoring (Vault) | 30 | EA | \$ - | \$ 18,079 | \$ 27,119 | \$ - | \$ 542,373 | \$ 813,559 | \$ 1,355,932 |
| 2.14 | Splice Vault Excavation | 2,992 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ 52,360 | \$ 22,440 | \$ 74,800 |
| 2.15 | Splice Vault Supply & Installation | 30 | EA | \$ 35,000 | \$ 16,500 | \$ 38,500 | \$ 1,050,000 | \$ 495,000 | \$ 1,155,000 | \$ 2,700,000 |
| 2.16 | Splice Vault Backfill | 898 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ 12,566 | \$ 5,386 | \$ 17,952 |
| 2.17 | Jack and Bore along Route | | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ - | \$ - | \$ - | \$ - |
| 2.18 | HDD along Route | | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | Air Test Ducts | 268,330 | LF | | | \$ 0.25 | \$ - | \$ - | \$ 67,082 | \$ 67,082 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
|--|---|--------------------|--------------------|----------------------|-------------------|-----------------------|----------------------|----------------------|-----------------------|-----------------------|
| 2.20 | PVMT, ASPHALT, 2" SURFACE COURSE | 17,071 | SY | \$ 14.00 | \$ 14.00 | \$ 7.00 | \$ 238,996 | \$ 238,996 | \$ 119,498 | \$ 597,490 |
| 2.21 | PVMT, AGGREGATE, 10", BASE COURSE | 4,742 | CY | \$ 22.38 | \$ 23.50 | \$ 10.07 | \$ 106,126 | \$ 111,432 | \$ 47,756 | \$ 265,314 |
| 2.22 | Concrete Ductbank Thermal Resistivity Testing (every 100CY of concrete poured) | 71 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ 28,562 | \$ 85,686 | \$ 114,248 |
| 2.23 | Concrete Ductbank Compressive Strength Testing (every 100CY of concrete poured) | 71 | EA | | \$ 10 | \$ 15 | \$ - | \$ 714 | \$ 1,071 | \$ 1,785 |
| 2.24 | Backfill Thermal Resistivity Testing (every 100CY of backfill placed) | 153 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ 61,350 | \$ 184,051 | \$ 245,401 |
| 2.25 | Additional misc. testing allowance (Native Backfill, Asphalt Density, Concrete Curb etc.) | 1 | LS | | \$ 448,266 | \$ 298,844 | \$ - | \$ 448,266 | \$ 298,844 | \$ 747,110 |
| 2.26 | Excess Materials Disposal to Certified Backfill | 25,510 | CY | | \$ 24.5 | \$ 10.5 | \$ - | \$ 624,994 | \$ 267,854 | \$ 892,848 |
| 2.27 | Rock Excavation and Removal | 13,680 | CY | | \$ 243 | \$ 162 | \$ - | \$ 3,324,344 | \$ 2,216,229 | \$ 5,540,573 |
| 2.28 | Dewatering | 30 | EA | | | \$ 4,000 | \$ - | \$ - | \$ 120,000 | \$ 120,000 |
| 2.29 | Contaminated Water Treatment and Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.30 | Contaminated Spoils Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Excavated material - stockpile management | 20,521 | CF | | \$ 1.0 | \$ 0.5 | \$ - | \$ 20,521 | \$ 10,260 | \$ 30,781 |
| TOTAL - ONSHORE CABLE CONDUITS & VAULTS INSTALLATION: | | | | | | | \$ 14,428,213 | \$ 13,991,584 | \$ 9,068,290 | \$ 37,488,087 |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | | | | |
| 3.1 | Circuit #1- Procurement & Installation- 345kV 5000 kcmil copper XLPE | 140,873 | FT | \$ 167 | \$ 100 | \$ 67 | \$ 23,525,798 | \$ 14,115,479 | \$ 9,410,319 | \$ 47,051,595 |
| 3.2 | Circuit #1- Cable Splicing- 345kV 5000 kcmil copper XLPE | 90 | EA | \$ 11,722 | \$ 9,846 | \$ 2,813 | \$ 1,054,980 | \$ 886,183 | \$ 253,195 | \$ 2,194,358 |
| 3.3 | Circuit #1- Cable Termination- 345kV 5000 kcmil copper XLPE | 6 | EA | \$ 27,805 | \$ 9,846 | \$ 2,813 | \$ 166,830 | \$ 59,079 | \$ 16,880 | \$ 242,789 |
| 3.4 | Circuit #2- Procurement & Installation- 345kV 5000 kcmil copper XLPE | | FT | \$ 167 | \$ 100 | \$ 67 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | Circuit #2- Cable Splicing- 345kV 5000 kcmil copper XLPE | | EA | \$ 11,722 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | Circuit #2- Cable Termination- 345kV 5000 kcmil copper XLPE | | EA | \$ 27,805 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | Circuit #3- Procurement & Installation- 345kV 5000 kcmil copper XLPE | | FT | \$ 167 | \$ 100 | \$ 67 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | Circuit #3- Cable Splicing- 345kV 5000 kcmil copper XLPE | | EA | \$ 11,722 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | Circuit #3- Cable Termination- 345kV 5000 kcmil copper XLPE | | EA | \$ 27,805 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | Link Box & MH racking | 30 | EA | \$ 28,548 | \$ 17,129 | \$ 11,419 | \$ 856,454 | \$ 513,872 | \$ 342,581 | \$ 1,712,907 |
| 3.11 | Fiber Optic Cable | 46,958 | FT | \$ 7 | \$ 3 | \$ 2 | \$ 347,346 | \$ 156,397 | \$ 104,265 | \$ 608,008 |
| 3.12 | Ground Continuity Conductor | 46,958 | FT | \$ 13 | \$ 8 | \$ 5 | \$ 612,281 | \$ 353,450 | \$ 235,634 | \$ 1,201,365 |
| TOTAL - ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | \$ 26,563,688 | \$ 16,084,460 | \$ 10,362,874 | \$ 53,011,023 |
| Comp 4 - Dunwoodie To New Rochelle Landing 345kV Onshore UG Cables -single circuit(EGC To Dunwoodie 345 kV) | | | | | | | \$ 43,088,349 | \$ 40,362,433 | \$ 23,556,423 | \$ 107,007,205 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 4.1 | Mob / Demob | 1 | LS | | \$ 1,917,566 | \$ 1,278,377 | \$ - | \$ 1,917,566 | \$ 1,278,377 | \$ 3,195,943 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 4.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 1,070,072.05 | | \$ - | \$ 1,070,072 | \$ - | \$ 1,070,072 |
| 4.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1 | LS | | 4,280,288.21 | | \$ - | \$ 4,280,288 | \$ - | \$ 4,280,288 |
| 4.4 | Utility PM and Project Oversight | 1 | LS | | 1,070,072.05 | | \$ - | \$ 1,070,072 | \$ - | \$ 1,070,072 |
| 4.5 | Site Accommodation, Facilities, Storage | 1 | LS | 1,070,072.05 | | | \$ 1,070,072 | \$ - | \$ - | \$ 1,070,072 |
| | Engineering | | | | | | | | | |
| 4.6 | Design Engineering | 1.0 | LS | | \$ 5,350,360 | \$ - | \$ - | \$ 5,350,360 | \$ - | \$ 5,350,360 |
| 4.7 | LiDAR /GPR | 1.0 | LS | | \$ 192,613 | \$ 128,409 | \$ - | \$ 192,613 | \$ 128,409 | \$ 321,022 |
| 4.8 | Geotech | 9.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 24,570 | \$ 16,380 | \$ 40,950 |
| 4.9 | Surveying/Staking | 1 | LS | | \$ 449,430 | \$ 299,620 | \$ - | \$ 449,430 | \$ 299,620 | \$ 749,050 |
| | Testing & Commissioning | | | | | | | | | |
| 4.10 | Testing & Commissioning of T-Line and Equipment | 1 | EA | | \$ 20,000 | | \$ - | \$ 20,000 | \$ - | \$ 20,000 |
| | Permitting, Indirects and Additional Costs | | | | | | | | | |
| 4.11 | Environmental Licensing & Permitting Costs & related legal cost | 1 | LS | | \$ 1,070,072 | | \$ - | \$ 1,070,072 | \$ - | \$ 1,070,072 |
| 4.12 | Environmental-special studies/investigation | | LS | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| 4.13 | Warranties / LOC's | 1 | LS | | \$ 321,022 | | \$ - | \$ 321,022 | \$ - | \$ 321,022 |
| 4.14 | Laydown Lease & temporary easement | 1 | LS | | \$ 1,000,000 | | \$ - | \$ 1,000,000 | \$ - | \$ 1,000,000 |
| 4.15 | Real Estate (Acquisition) | 1 | LS | | | \$ 123,767 | \$ - | \$ - | \$ 123,767 | \$ 123,767 |
| 4.16 | Legal Fees (Real estate) | 1.00 | LS | | - | 3,713.00 | \$ - | \$ - | \$ 3,713 | \$ 3,713 |
| 4.17 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Insurance (specialty, e.g. railroad) | | Crossing | | | \$ 1,000 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Bonds | 1 | LS | | | \$ 3,800,000 | \$ - | \$ - | \$ 3,800,000 | \$ 3,800,000 |
| 4.20 | Sales Tax on Materials | 8.88% | % of material cost | \$ 43,088,349.18 | | | \$ 3,826,245 | \$ - | \$ - | \$ 3,826,245 |
| 4.21 | Fees for permits, including roadway, railroad, building or other local permits | 1 | LS | | | \$ 107,007 | \$ - | \$ - | \$ 107,007 | \$ 107,007 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 4,896,317 | \$ 16,766,065 | \$ 5,757,273 | \$ 27,419,655 |

NEXTera Energy- TO41 Core 6

Comp 4C - Sprain Brook To New Rochelle Landing Onshore 320kV DC UG Cables - Single circuit

(Northport To Sprain Brook 320 kV DC)

Total: \$ 159,124,018

| NEXTera Energy- TO41 Core 6 | | | | | | | | | | |
|---|--|-----------------|---------------|---------------|----------------|--|--|--|--|--|
| | | Material Supply | Labor Supply | Equip Supply | Total | | | | | |
| Comp 4C - Sprain Brook To New Rochelle Landing Onshore 345kV UG Cables -Double circuits (EGC To Sprain Brook 345 kV / Ruland To Sprain Brook 345 kV) | | | | | | | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | | \$ 2,096,448 | \$ 10,286,389 | \$ 4,125,259 | \$ 16,508,096 | | | | | |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | | \$ 13,444,148 | \$ 13,874,209 | \$ 9,004,614 | \$ 36,322,970 | | | | | |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | | \$ 18,612,600 | \$ 10,891,459 | \$ 7,013,404 | \$ 36,517,464 | | | | | |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | \$ 3,926,289 | \$ 14,226,390 | \$ 4,874,509 | \$ 23,027,188 | | | | | |
| SUBTOTAL (Costs): | | \$ 38,079,485 | \$ 49,278,448 | \$ 25,017,786 | \$ 112,375,719 | | | | | |
| CONTRACTOR MARK-UP (OH&P) | | \$ 6,854,307 | \$ 8,870,121 | \$ 4,503,202 | \$ 20,227,629 | | | | | |
| SUBTOTAL: | | \$ 44,933,792 | \$ 58,148,568 | \$ 29,520,988 | \$ 132,603,348 | | | | | |
| CONTINGENCY ON ENTIRE PROJECT | | \$ 8,986,758 | \$ 11,629,714 | \$ 5,904,198 | \$ 26,520,670 | | | | | |
| TOTAL: | | \$ 53,920,551 | \$ 69,778,282 | \$ 35,425,185 | \$ 159,124,018 | | | | | |

| Description of Work: Dunwoodie - New Rochelle Landing (single circuit duct). 5000 kcmil copper XLPE, single cable per phase. | | | | | | | | | | |
|---|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
| Comp 4C - Sprain Brook To New Rochelle Landing Onshore 345kV UG Cables -Double circuits(EGC To Sprain Brook 345 kV / Ruland To Sprain Brook 345 kV) | | | | | | | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | | | | | | | | | | |
| 1.1 | Environmental BMPs / SWPPP Installation, Maintenance & Repairs | 0 | LF | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 1.2 | Existing Utility Conflict and Relocation | 8.47 | Mile | | \$ 700,000 | \$ 300,000 | \$ - | \$ 5,929,000 | \$ 2,541,000 | \$ 8,470,000 |
| 1.3 | Flaggers | 260 | DAY | \$ 1,600 | \$ 4,800 | \$ 1,600 | \$ 416,000 | \$ 1,248,000 | \$ 416,000 | \$ 2,080,000 |
| 1.4 | K Rail / Lane Control / Metal Plates | 44,722 | LF | \$ 30 | \$ 18 | \$ 12 | \$ 1,341,648 | \$ 804,989 | \$ 536,659 | \$ 2,683,296 |
| 1.5 | Police Support | 10,400.0 | HR | | \$ 120 | \$ 27 | \$ - | \$ 1,248,000 | \$ 280,800 | \$ 1,528,800 |
| 1.6 | Additional Traffic Management | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Access / Clearing Costs | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.8 | Snow Removal | 40.0 | DAY | | \$ 1,000 | \$ 300 | \$ - | \$ 40,000 | \$ 12,000 | \$ 52,000 |
| 1.9 | Existing Utility Protection | 8.47 | Mile | \$ 40,000 | \$ 120,000 | \$ 40,000 | \$ 338,800 | \$ 1,016,400 | \$ 338,800 | \$ 1,694,000 |
| TOTAL - SITE PREP/ACCESS/TRAFFIC MANAGEMENT/ ACCESS: | | | | | | | \$ 2,096,448 | \$ 10,286,389 | \$ 4,125,259 | \$ 16,508,096 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | | | | | | | | | | |
| 2.1 | Trench Box Shoring & Trench Box Install Crew | 8 | Miles | | \$ 139,800 | \$ 93,200 | \$ - | \$ 1,184,106 | \$ 789,404 | \$ 1,973,510 |
| 2.2 | Formwork in Trench | 352,013 | SF | \$ 2 | \$ 1.5 | \$ 0.5 | \$ 704,026 | \$ 528,019 | \$ 176,006 | \$ 1,408,051 |
| 2.3 | Trench Excavation | 17,601 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ 308,011 | \$ 132,005 | \$ 440,016 |
| 2.4 | Supply & Install 6" Sand Bedding for direct bury conduits | 1,833 | SF | \$ 50 | \$ 25 | \$ 14 | \$ 91,670 | \$ 44,918 | \$ 25,668 | \$ 162,256 |
| 2.5 | Supply & Install Thermal Backfill | 15,401 | CY | \$ 350 | \$ 245 | \$ 105 | \$ 5,390,196 | \$ 3,773,137 | \$ 1,617,059 | \$ 10,780,392 |
| 2.6 | Supply & Install Concrete Cap (6") | 0 | CY | \$ 200 | \$ 125 | \$ 50 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | Native Backfill -direct bury conduits sys Trench | 0 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | Supply & Install Ductbank Concrete | 7,717 | CY | \$ 200 | \$ 125 | \$ 50 | \$ 1,543,478 | \$ 964,674 | \$ 385,870 | \$ 2,894,022 |
| 2.9 | Conduit 8" SCH 40PVC | 134,165 | LF | \$ 28.6 | \$ 5.7 | \$ 2.4 | \$ 3,837,113 | \$ 760,714 | \$ 326,020 | \$ 4,923,848 |
| 2.10 | Conduit 4" SCH 40PVC | 0 | LF | \$ 9.8 | \$ 4.20 | \$ 1.8 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | Conduit 2" SCH 40PVC | 134,165 | LF | \$ 3.5 | \$ 3.15 | \$ 1.4 | \$ 472,260 | \$ 422,619 | \$ 181,122 | \$ 1,076,002 |
| 2.12 | Warning Tape | 89,443 | LF | \$ 0.15 | \$ 0.25 | \$ 0.10 | \$ 13,416 | \$ 22,361 | \$ 8,944 | \$ 44,722 |
| 2.13 | Trench Box Shoring (Vault) | 30 | EA | \$ - | \$ 18,079 | \$ 27,119 | \$ - | \$ 542,373 | \$ 813,559 | \$ 1,355,932 |
| 2.14 | Splice Vault Excavation | 2,464 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ 43,120 | \$ 18,480 | \$ 61,600 |
| 2.15 | Splice Vault Supply & Installation | 30 | EA | \$ 35,000 | \$ 16,500 | \$ 38,500 | \$ 1,050,000 | \$ 495,000 | \$ 1,155,000 | \$ 2,700,000 |
| 2.16 | Splice Vault Backfill | 739 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ 10,349 | \$ 4,435 | \$ 14,784 |
| 2.17 | Jack and Bore along Route | | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ - | \$ - | \$ - | \$ - |
| 2.18 | HDD along Route | | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | Air Test Ducts | 268,330 | LF | | | \$ 0.25 | \$ - | \$ - | \$ 67,082 | \$ 67,082 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
|--|---|--------------------|--------------------|----------------------|-------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|
| 2.20 | PVMT, ASPHALT, 2" SURFACE COURSE | 16,916 | SY | \$ 14.00 | \$ 14.00 | \$ 7.00 | \$ 236,826 | \$ 236,826 | \$ 118,413 | \$ 592,065 |
| 2.21 | PVMT, AGGREGATE, 10", BASE COURSE | 4,699 | CY | \$ 22.38 | \$ 23.50 | \$ 10.07 | \$ 105,162 | \$ 110,420 | \$ 47,323 | \$ 262,905 |
| 2.22 | Concrete Ductbank Thermal Resistivity Testing (every 100CY of concrete poured) | 77 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ 30,870 | \$ 92,609 | \$ 123,478 |
| 2.23 | Concrete Ductbank Compressive Strength Testing (every 100CY of concrete poured) | 77 | EA | | \$ 10 | \$ 15 | \$ - | \$ 772 | \$ 1,158 | \$ 1,929 |
| 2.24 | Backfill Thermal Resistivity Testing (every 100CY of backfill placed) | 154 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ 61,602 | \$ 184,807 | \$ 246,409 |
| 2.25 | Additional misc. testing allowance (Native Backfill, Asphalt Density, Concrete Curb etc.) | 1 | LS | | \$ 448,266 | \$ 298,844 | \$ - | \$ 448,266 | \$ 298,844 | \$ 747,110 |
| 2.26 | Excess Materials Disposal to Certified Backfill | 25,123 | CY | | \$ 24.5 | \$ 10.5 | \$ - | \$ 615,515 | \$ 263,792 | \$ 879,308 |
| 2.27 | Rock Excavation and Removal | 13,376 | CY | | \$ 243 | \$ 162 | \$ - | \$ 3,250,472 | \$ 2,166,981 | \$ 5,417,453 |
| 2.28 | Dewatering | 30 | EA | | | \$ 4,000 | \$ - | \$ - | \$ 120,000 | \$ 120,000 |
| 2.29 | Contaminated Water Treatment and Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.30 | Contaminated Spoils Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Excavated material - stockpile management | 20,065 | CF | | \$ 1.0 | \$ 0.5 | \$ - | \$ 20,065 | \$ 10,032 | \$ 30,097 |
| TOTAL - ONSHORE CABLE CONDUITS & VAULTS INSTALLATION: | | | | | | | \$ 13,444,148 | \$ 13,874,209 | \$ 9,004,614 | \$ 36,322,970 |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | | | | |
| 3.1 | Circuit #1- Procurement & Installation- 320 DckV 5000 kcmil copper XLPE | 93,915 | FT | \$ 166 | \$ 100 | \$ 66 | \$ 15,589,950 | \$ 9,353,970 | \$ 6,235,980 | \$ 31,179,900 |
| 3.2 | Circuit #1- Cable Splicing- 320 DckV 5000 kcmil copper XLPE | 60 | EA | \$ 19,349 | \$ 9,846 | \$ 2,813 | \$ 1,160,940 | \$ 590,789 | \$ 168,797 | \$ 1,920,526 |
| 3.3 | Circuit #1- Cable Termination- 320 DckV 5000 kcmil copper XLPE | 6 | EA | \$ 45,410 | \$ 9,846 | \$ 2,813 | \$ 272,460 | \$ 59,079 | \$ 16,880 | \$ 348,419 |
| 3.4 | Circuit #2- Procurement & Installation- 320 DckV 5000 kcmil copper XLPE | | FT | \$ 166 | \$ 100 | \$ 66 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | Circuit #2- Cable Splicing- 320 DckV 5000 kcmil copper XLPE | | EA | \$ 19,349 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | Circuit #2- Cable Termination- 320 DckV 5000 kcmil copper XLPE | | EA | \$ 45,410 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | Circuit #3- Procurement & Installation- 320 DckV 5000 kcmil copper XLPE | | FT | \$ 166 | \$ 100 | \$ 66 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | Circuit #3- Cable Splicing- 320 DckV 5000 kcmil copper XLPE | | EA | \$ 19,349 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | Circuit #3- Cable Termination- 320 DckV 5000 kcmil copper XLPE | | EA | \$ 45,410 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | Link Box & MH racking | 30 | EA | \$ 20,987 | \$ 12,592 | \$ 8,395 | \$ 629,624 | \$ 377,774 | \$ 251,849 | \$ 1,259,247 |
| 3.11 | Fiber Optic Cable | 46,958 | FT | \$ 7 | \$ 3 | \$ 2 | \$ 347,346 | \$ 156,397 | \$ 104,265 | \$ 608,008 |
| 3.12 | Ground Continuity Conductor | 46,958 | FT | \$ 13 | \$ 8 | \$ 5 | \$ 612,281 | \$ 353,450 | \$ 235,634 | \$ 1,201,365 |
| TOTAL - ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | \$ 18,612,600 | \$ 10,891,459 | \$ 7,013,404 | \$ 36,517,464 |
| Comp 4 - Dunwoodie To New Rochelle Landing 345kV Onshore UG Cables -single circuit(EGC To Dunwoodie 345 kV) | | | | | | | \$ 34,153,196 | \$ 35,052,057 | \$ 20,143,277 | \$ 89,348,530 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 4.1 | Mob / Demob | 1 | LS | | \$ 1,655,860 | \$ 1,103,907 | \$ - | \$ 1,655,860 | \$ 1,103,907 | \$ 2,759,767 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 4.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 893,485.30 | | \$ - | \$ 893,485 | \$ - | \$ 893,485 |
| 4.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1 | LS | | 3,573,941.22 | | \$ - | \$ 3,573,941 | \$ - | \$ 3,573,941 |
| 4.4 | Utility PM and Project Oversight | 1 | LS | | 893,485.30 | | \$ - | \$ 893,485 | \$ - | \$ 893,485 |
| 4.5 | Site Accommodation, Facilities, Storage | 1 | LS | 893,485.30 | | | \$ 893,485 | \$ - | \$ - | \$ 893,485 |
| | Engineering | | | | | | | | | |
| 4.6 | Design Engineering | 1.0 | LS | | \$ 4,467,427 | \$ - | \$ - | \$ 4,467,427 | \$ - | \$ 4,467,427 |
| 4.7 | LiDAR /GPR | 1.0 | LS | | \$ 160,827 | \$ 107,218 | \$ - | \$ 160,827 | \$ 107,218 | \$ 268,046 |
| 4.8 | Geotech | 9.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 24,570 | \$ 16,380 | \$ 40,950 |
| 4.9 | Surveying/Staking | 1 | LS | | \$ 375,264 | \$ 250,176 | \$ - | \$ 375,264 | \$ 250,176 | \$ 625,440 |
| | Testing & Commissioning | | | | | | | | | |
| 4.10 | Testing & Commissioning of T-Line and Equipment | 1 | EA | | \$ 20,000 | | \$ - | \$ 20,000 | \$ - | \$ 20,000 |
| | Permitting, Indirects and Additional Costs | | | | | | | | | |
| 4.11 | Environmental Licensing & Permitting Costs & related legal cost | 1 | LS | | \$ 893,485 | | \$ - | \$ 893,485 | \$ - | \$ 893,485 |
| 4.12 | Environmental-special studies/investigation | | LS | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| 4.13 | Warranties / LOC's | 1 | LS | | \$ 268,046 | | \$ - | \$ 268,046 | \$ - | \$ 268,046 |
| 4.14 | Laydown Lease & temporary easement | 1 | LS | | \$ 1,000,000 | | \$ - | \$ 1,000,000 | \$ - | \$ 1,000,000 |
| 4.15 | Real Estate (Acquisition) | 1 | LS | | | \$ 123,767 | \$ - | \$ - | \$ 123,767 | \$ 123,767 |
| 4.16 | Legal Fees (Real estate) | 1.00 | LS | | - | 3,713.00 | \$ - | \$ - | \$ 3,713 | \$ 3,713 |
| 4.17 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Insurance (specialty, e.g. railroad) | | Crossing | | | \$ 1,000 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Bonds | 1 | LS | | | \$ 3,180,000 | \$ - | \$ - | \$ 3,180,000 | \$ 3,180,000 |
| 4.20 | Sales Tax on Materials | 8.88% | % of material cost | \$ 34,153,196.04 | | | \$ 3,032,804 | \$ - | \$ - | \$ 3,032,804 |
| 4.21 | Fees for permits, including roadway, railroad, building or other local permits | 1 | LS | | | \$ 89,349 | \$ - | \$ - | \$ 89,349 | \$ 89,349 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 3,926,289 | \$ 14,226,390 | \$ 4,874,509 | \$ 23,027,188 |

NEXtera Energy- TO41 Core 6

Comp 17. New Rochelle Landing to Hempstead Harbor Landing (Shore Road) 345kV Offshore Submarine Cables - Two circuits (two lines, single circuit each)

EGC-Dunwoodie 345KV / Ruland-SprainBrook 345KV

Total: \$ 524,998,762

| | | | | |
|---|-----------------|----------------|----------------|----------------|
| Comp 17. New Rochelle Landing to Hempstead Harbor Landing (Shore Road) 345kV Offshore Submarine Cables - Three circuits (three lines, single circuit each) EGC-Dunwoodie 345KV / EGC-SprainBrook 345KV/ Ruland-SprainBrook 345KV | | | | |
| | Material Supply | Labor Supply | Equip Supply | Total |
| Comp 17. New Rochelle Landing to Hempstead Harbor Landing (Shore Road) 345kV Offshore Submarine Cables - Three circuits (three lines, single circuit each) EGC-Dunwoodie 345KV / EGC-SprainBrook 345KV/ Ruland-SprainBrook 345KV | | | | |
| 1. SUBMARINE CABLE | \$ 116,979,561 | \$ 104,729,644 | \$ 71,163,184 | \$ 292,872,389 |
| 2. TRANSITION STATION | \$ 920,987 | \$ 1,160,115 | \$ 1,105,523 | \$ 3,186,625 |
| 3. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | \$ 13,335,838 | \$ 46,001,031 | \$ 15,365,954 | \$ 74,702,824 |
| SUBTOTAL (Costs): | \$ 131,236,386 | \$ 151,890,790 | \$ 87,634,662 | \$ 370,761,837 |
| CONTRACTOR MARK-UP (OH&P) | \$ 23,622,549 | \$ 27,340,342 | \$ 15,774,239 | \$ 66,737,131 |
| SUBTOTAL: | \$ 154,858,935 | \$ 179,231,132 | \$ 103,408,901 | \$ 437,498,968 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 30,971,787 | \$ 35,846,226 | \$ 20,681,780 | \$ 87,499,794 |
| TOTAL: | \$ 185,830,722 | \$ 215,077,358 | \$ 124,090,681 | \$ 524,998,762 |

| Description of Work: New Rochelle landing - Hempstead Harbor Landing. Part of any Dunwoodie to Shore/Ruland/EGC 345 kV project segment (Include HDD's to get onshore at both ends of route) 1600 mm2 Tri-Core | | | | | | | | | | |
|---|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
| Comp 17. New Rochelle Landing to Hempstead Harbor Landing (Shore Road) 345kV Offshore Submarine Cables - Three circuits (three lines, single circuit each) EGC-Dunwoodie 345KV / EGC-SprainBrook 345KV/ Ruland-SprainBrook 345KV | | | | | | | | | | |
| 1. SUBMARINE CABLE | | | | | | | | | | |
| 1.1 | Submarine Cable - 1600 mm2 Tri-Core + Vessel Install | 200,260 | FT | \$ 537 | \$ 400 | \$ 250 | \$ 107,539,534 | \$ 80,103,936 | \$ 50,064,960 | \$ 237,708,430 |
| 1.2 | Submarine Cable- transportation from manufacture location to site | 1 | LS | | \$ 10,135,879 | \$ 6,757,252 | \$ - | \$ 10,135,879 | \$ 6,757,252 | \$ 16,893,131 |
| 1.3 | Submarine Cable Splicing if Required 1600 mm2 Tri-Core | - | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 1.4 | Cable Transition Splice | 8 | EA | \$ 27,911 | \$ 37,214 | \$ 27,911 | \$ 223,286 | \$ 297,715 | \$ 223,286 | \$ 744,286 |
| 1.5 | Outdoor Termination | 8 | EA | \$ 27,911 | \$ 37,214 | \$ 27,911 | \$ 223,286 | \$ 297,715 | \$ 223,286 | \$ 744,286 |
| 1.6 | "Shore End" (shallow) Diver Cable Install | | | | | | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Fiber Optic Cable | 100,130 | FT | \$ 7 | | | \$ 740,661 | \$ - | \$ - | \$ 740,661 |
| 1.8 | Ground Continuity Conductor | 100,130 | FT | \$ 13 | | | \$ 1,305,594 | \$ - | \$ - | \$ 1,305,594 |
| 1.9 | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 1.10 | Jack and Bore along Route | 0 | LF | \$ 1,600 | \$ 3,200 | \$ 3,200 | \$ - | \$ - | \$ - | \$ - |
| 1.11 | HDD along Route | 4,342 | LF | \$ 1,600 | \$ 3,200 | \$ 3,200 | \$ 6,947,200 | \$ 13,894,400 | \$ 13,894,400 | \$ 34,736,000 |
| TOTAL - Submarine cable: | | | | | | | \$ 116,979,561 | \$ 104,729,644 | \$ 71,163,184 | \$ 292,872,389 |
| 2. TRANSITION STATION | | | | | | | | | | |
| 2.1 | Site Clearing | 1.0 | ACRE | - | 10,800.00 | 7,200.00 | \$ - | \$ 10,800 | \$ 7,200 | \$ 18,000 |
| 2.2 | Demolition | 0 | LS | - | 60,000.00 | 40,000.00 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | Strip and Dispose Top Soil | 1,613 | CY | | 24.50 | 10.50 | \$ - | \$ 39,527 | \$ 16,940 | \$ 56,467 |
| 2.4 | Site Grading- Excavation for Substation Pad | 4,840 | CY | | 9.00 | 6.00 | \$ - | \$ 43,560 | \$ 29,040 | \$ 72,600 |
| 2.5 | Site Grading- Excavation for Substation Pad-Rock excavation-Hauling and disposal | 2,614 | CY | | 21.00 | 9.00 | \$ - | \$ 54,885.60 | \$ 23,522.40 | \$ 78,408.00 |
| 2.6 | Site Grading- Fill for Substation Pad (site borrow, compacted in place) | 3,920 | CY | | 2.40 | 1.60 | \$ - | \$ 9,409 | \$ 6,273 | \$ 15,682 |
| 2.7 | Site Grading -Fill for Substation Pad (import, compacted in place) | 2,614 | CY | 25.00 | 2.40 | 1.60 | \$ 65,340 | \$ 6,273 | \$ 4,182 | \$ 75,794 |
| 2.8 | Install substation 8" pad base | 4,840 | SY | 11.00 | 6.00 | 4.00 | \$ 53,240 | \$ 29,040 | \$ 19,360 | \$ 101,640 |
| 2.9 | Site Surfacing - Aggregate 6" Thick | 4,840 | SY | 16.50 | 4.50 | 3.00 | \$ 79,860 | \$ 21,780 | \$ 14,520 | \$ 116,160 |
| 2.10 | 7' Station Fence w/ Barbed Wire & Grounding | 900 | LF | 13.85 | 13.85 | 6.92 | \$ 12,463 | \$ 12,463 | \$ 6,232 | \$ 31,158 |
| 2.11 | 20' Slide Gate & Grounding | 2 | EA | 8,100.00 | 3,245.00 | 1,305.00 | \$ 16,200 | \$ 6,490 | \$ 2,610 | \$ 25,300 |
| 2.12 | 4' Pedestrian gate | 2 | EA | 2,500.00 | 1,000.00 | 350.00 | \$ 5,000 | \$ 2,000 | \$ 700 | \$ 7,700 |
| 2.13 | Erosion Control-Silt fence install & remove | 1,500 | LF | 2.41 | 3.16 | 0.72 | \$ 3,615 | \$ 4,740 | \$ 1,080 | \$ 9,435 |
| 2.14 | Temporary fencing | 1,000 | LF | 7.50 | 5.25 | 2.25 | \$ 7,500 | \$ 5,250 | \$ 2,250 | \$ 15,000 |
| 2.15 | 345kV, Cable sealing end - 3 Ph | 64 | CY | 703.89 | 804.44 | 502.78 | \$ 45,189 | \$ 51,645 | \$ 32,278 | \$ 129,113 |
| 2.16 | 345kV, lighting arrester | 64 | CY | 703.89 | 804.44 | 502.78 | \$ 45,189 | \$ 51,645 | \$ 32,278 | \$ 129,113 |
| 2.17 | 345kV, Cable sealing end - 3 Ph | 12 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ 100,152 | \$ 69,105 | \$ 46,070 | \$ 215,327 |

| Comp 17. New Rochelle Landing to Hempstead Harbor Landing (Shore Road) 345kV Offshore Submarine Cables - Three circuits (three lines, single circuit each) EGC-Dunwoodie 345KV / EGC-SprainBrook 345KV/ Ruland-SprainBrook 345KV | | | | | | | | | | |
|---|---|-------|----------|----------------|---------------|---------------|----------------|----------------|---------------|----------------|
| 2.18 | 345kV, lighting arrester | 12 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ 57,720 | \$ 34,632 | \$ 23,088 | \$ 115,440 |
| 2.19 | AL. Bus Tubing, 5" SCH 80 | 420 | LF | 25.00 | 184.94 | 123.29 | \$ 10,500 | \$ 77,674 | \$ 51,783 | \$ 139,957 |
| 2.20 | AL. Bus fittings | 1 | LS | 12,600.00 | 12,600.00 | 6,300.00 | \$ 12,600 | \$ 12,600 | \$ 6,300 | \$ 31,500 |
| 2.21 | Cable, 4/0 AWG Bare Copper, 7 Strand Ground Conductor | 267 | LF | 2.09 | - | - | \$ 558 | \$ - | \$ - | \$ 558 |
| 2.22 | Caweld, DSA, 4/0 , T, CROSS | 133 | EA | 165.00 | 75.00 | | \$ 22,000 | \$ 10,000 | \$ - | \$ 32,000 |
| 2.23 | Ground Rod, 3/4" x 15' | 36 | EA | 135.00 | 67.50 | 7.50 | \$ 4,860 | \$ 2,430 | \$ 270 | \$ 7,560 |
| 2.24 | Trench Box Shoring (Vault) | 8 | EA | \$ - | \$ 18,079 | \$ 27,119 | \$ - | \$ 144,633 | \$ 216,949 | \$ 361,582 |
| 2.25 | Splice Vault Excavation | 5,177 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ 90,596 | \$ 38,827 | \$ 129,422 |
| 2.26 | Splice Vault Supply & Installation | 8 | EA | \$ 45,500 | \$ 21,450 | \$ 50,050 | \$ 364,000 | \$ 171,600 | \$ 400,400 | \$ 936,000 |
| 2.27 | Splice Vault Backfill | 1,553 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ 21,743 | \$ 9,318 | \$ 31,061 |
| 2.28 | Restoration (incl. Paving) | 1 | LS | \$ 15,000.00 | \$ 20,000.00 | \$ 15,000.00 | \$ 15,000 | \$ 20,000 | \$ 15,000 | \$ 50,000 |
| 2.29 | Additional misc. testing allowance (Native Backfill, Asphalt Density, Concrete Curb etc.) | 1 | LS | | \$ 35,000 | \$ 15,000 | \$ - | \$ 35,000 | \$ 15,000 | \$ 50,000 |
| 2.30 | Excess Materials Disposal to Certified Backfill | 4,711 | CY | | \$ 24.5 | \$ 10.5 | \$ - | \$ 115,419 | \$ 49,465 | \$ 164,884 |
| 2.31 | Rock Excavation and Removal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.32 | Dewatering | 8 | EA | | | \$ 4,000 | \$ - | \$ - | \$ 32,000 | \$ 32,000 |
| 2.33 | Contaminated Water Treatment and Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.34 | Contaminated Spoils Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.35 | Excavated material - stockpile management | 5,177 | CF | | \$ 1.0 | \$ 0.5 | \$ - | \$ 5,177 | \$ 2,588 | \$ 7,765 |
| 2.36 | | | | | | | \$ - | \$ - | \$ - | \$ - |
| TOTAL - Transition station : | | | | | | | \$ 920,987 | \$ 1,160,115 | \$ 1,105,523 | \$ 3,186,625 |
| Comp 17. New Rochelle Landing to Hempstead Harbor Landing (Shore Road) 345kV Offshore Submarine Cables | | | | | | | \$ 117,900,548 | \$ 105,889,759 | \$ 72,268,707 | \$ 296,059,014 |
| 3. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 3.1 | Mob / Demob | 1 | LS | | \$ 6,000,000 | \$ 4,000,000 | \$ - | \$ 6,000,000 | \$ 4,000,000 | \$ 10,000,000 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 3.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 2,960,590.14 | | \$ - | \$ 2,960,590 | \$ - | \$ 2,960,590 |
| 3.3 | Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) | 1 | LS | | 11,842,360.55 | | \$ - | \$ 11,842,361 | \$ - | \$ 11,842,361 |
| 3.4 | Utility PM and Project Oversight | 1 | LS | | 2,960,590.14 | | \$ - | \$ 2,960,590 | \$ - | \$ 2,960,590 |
| 3.5 | Site Accommodation, Facilities, Storage | 1 | LS | 2,960,590.14 | | | \$ 2,960,590 | \$ - | \$ - | \$ 2,960,590 |
| | Engineering | | | | | | | | | |
| 3.6 | Design Engineering | 1 | LS | | \$ 14,802,951 | | \$ - | \$ 14,802,951 | \$ - | \$ 14,802,951 |
| 3.7 | Surveying/Staking | 1 | LS | | \$ 2,072,413 | | \$ - | \$ 2,072,413 | \$ - | \$ 2,072,413 |
| 3.8 | Geotech | 10.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 27,300 | \$ 18,200 | \$ 45,500 |
| | Testing & Commissioning / Inspection | | | | | | | | | |
| 3.9 | Testing & Commissioning / End to End Testing of Subsea Cable | 4 | EA | | \$ 80,000 | | \$ - | \$ 320,000 | \$ - | \$ 320,000 |
| 3.10 | Post Cable-Lay Inspection | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| | Permitting and Additional Costs | | | | | | | | | |
| 3.10 | Environmental Licensing & Permitting Costs & related legal cost | 1 | LS | | \$ 2,960,590 | | \$ - | \$ 2,960,590 | \$ - | \$ 2,960,590 |
| 3.11 | Environmental-special studies/investigation | 1 | LS | | \$ 370,000 | | \$ - | \$ 370,000 | \$ - | \$ 370,000 |
| 3.12 | Warranties / LOC's | 1 | LS | | \$ 888,177 | | \$ - | \$ 888,177 | \$ - | \$ 888,177 |
| 3.13 | Laydown Lease & temporary easement | 1 | LS | | \$ 500,000 | | \$ - | \$ 500,000 | \$ - | \$ 500,000 |
| 3.14 | Real Estate (Acquisition) | 1 | LS | | \$ - | \$ 842,480 | \$ - | \$ - | \$ 842,480 | \$ 842,480 |
| 3.15 | Legal Fees (Real estate) | 1.00 | LS | | - | 25,274.40 | \$ - | \$ - | \$ 25,274 | \$ 25,274 |
| 3.16 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 3.17 | Insurance (specialty, e.g. railroad) | | Crossing | | | | \$ - | \$ - | \$ - | \$ - |
| 3.19 | Allowance for Funds Used During Construction (AFUDC) | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 3.20 | Sales Tax on Materials | 8.8% | LS | \$ 117,900,548 | | | \$ 10,375,248 | \$ - | \$ - | \$ 10,375,248 |
| 3.21 | Contractor Permits | 1 | LS | | \$ 296,059 | | \$ - | \$ 296,059 | \$ - | \$ 296,059 |
| 3.22 | Payment & Performance Bond | 1 | LS | | | \$ 10,480,000 | \$ - | \$ - | \$ 10,480,000 | \$ 10,480,000 |
| 3.23 | Marine / Specialty Insurance | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 13,335,838 | \$ 46,001,031 | \$ 15,365,954 | \$ 74,702,824 |

NEXTera Energy- TO41 Core 6

Comp 68. Northport to New Rochelle Landing 320kV DC Offshore Submarine Cables - One circuit

Northport-SprainBrook 320KV DC

Total: \$ 528,901,092

| | | | | |
|---|-----------------|----------------|----------------|----------------|
| Comp 17. New Rochelle Landing to Hempstead Harbor Landing (Shore Road) 345kV Offshore Submarine Cables - Three circuits (three lines, single circuit each) EGC-Dunwoodie 345KV / EGC-SprainBrook 345KV/ Ruland-SprainBrook 345KV | | | | |
| | Material Supply | Labor Supply | Equip Supply | Total |
| Comp 17. New Rochelle Landing to Hempstead Harbor Landing (Shore Road) 345kV Offshore Submarine Cables - Three circuits (three lines, single circuit each) EGC-Dunwoodie 345KV / EGC-SprainBrook 345KV/ Ruland-SprainBrook 345KV | | | | |
| 1. SUBMARINE CABLE | \$ 71,948,691 | \$ 139,544,959 | \$ 90,274,548 | \$ 301,768,198 |
| 2. TRANSITION STATION | \$ 106,000 | \$ 172,881 | \$ 209,037 | \$ 487,918 |
| 3. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | \$ 9,363,374 | \$ 47,125,551 | \$ 14,772,680 | \$ 71,261,605 |
| SUBTOTAL (Costs): | \$ 81,418,065 | \$ 186,843,391 | \$ 105,256,264 | \$ 373,517,721 |
| CONTRACTOR MARK-UP (OH&P) | \$ 14,655,252 | \$ 33,631,810 | \$ 18,946,128 | \$ 67,233,190 |
| SUBTOTAL: | \$ 96,073,317 | \$ 220,475,201 | \$ 124,202,392 | \$ 440,750,910 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 19,214,663 | \$ 44,095,040 | \$ 24,840,478 | \$ 88,150,182 |
| TOTAL: | \$ 115,287,981 | \$ 264,570,242 | \$ 149,042,870 | \$ 528,901,092 |

| Description of Work: Northport-New Rochelle landing. Part of Northport to Sprainbrook 320 kV DC project segment, 5000kCMIL, Cu, Single Core, XLPE, submarine cable (25.38 miles) | | | | | | | | | | |
|---|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
| Comp 17. New Rochelle Landing to Hempstead Harbor Landing (Shore Road) 345kV Offshore Submarine Cables - Three circuits (three lines, single circuit each) EGC-Dunwoodie 345KV / EGC-SprainBrook 345KV/ Ruland-SprainBrook 345KV | | | | | | | | | | |
| 1. SUBMARINE CABLE | | | | | | | | | | |
| 1.1 | Submarine Cable - 320kV DC, 5000kCMIL, Cu, Single Core, XLPE, Submarine | 294,814 | FT | \$ 212 | \$ 400 | \$ 250 | \$ 62,500,585 | \$ 117,925,632 | \$ 73,703,520 | \$ 254,129,737 |
| 1.2 | Submarine Cable- transportation from manufacture location to site | 1 | LS | | \$ 14,921,613 | \$ 9,947,742 | \$ - | \$ 14,921,613 | \$ 9,947,742 | \$ 24,869,354 |
| 1.3 | Submarine Cable Splicing if Required 1600 mm2 Tri-Core | - | EA | | | | \$ - | \$ - | \$ - | \$ - |
| 1.4 | Cable Transition Splice | 4 | EA | \$ 27,911 | \$ 37,214 | \$ 27,911 | \$ 111,643 | \$ 148,857 | \$ 111,643 | \$ 372,143 |
| 1.5 | Outdoor Termination | 4 | EA | \$ 27,911 | \$ 37,214 | \$ 27,911 | \$ 111,643 | \$ 148,857 | \$ 111,643 | \$ 372,143 |
| 1.6 | "Shore End" (shallow) Diver Cable Install | | | | | | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Fiber Optic Cable | 294,814 | FT | \$ 7 | | | \$ 2,180,740 | \$ - | \$ - | \$ 2,180,740 |
| 1.8 | Ground Continuity Conductor | 294,814 | FT | \$ 13 | | | \$ 3,844,081 | \$ - | \$ - | \$ 3,844,081 |
| 1.9 | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 1.10 | Jack and Bore along Route | 0 | LF | \$ 1,600 | \$ 3,200 | \$ 3,200 | \$ - | \$ - | \$ - | \$ - |
| 1.11 | HDD along Route | 4,000 | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ 3,200,000 | \$ 6,400,000 | \$ 6,400,000 | \$ 16,000,000 |
| TOTAL - Submarine cable: | | | | | | | \$ 71,948,691 | \$ 139,544,959 | \$ 90,274,548 | \$ 301,768,198 |
| 2. TRANSITION STATION | | | | | | | | | | |
| 2.1 | Site Clearing | 0.0 | ACRE | - | 10,800.00 | 7,200.00 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | Demolition | 0 | LS | - | 60,000.00 | 40,000.00 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | Strip and Dispose Top Soil | 0 | CY | | 24.50 | 10.50 | \$ - | \$ - | \$ - | \$ - |
| 2.4 | Site Grading- Excavation for Substation Pad | 0 | CY | | 9.00 | 6.00 | \$ - | \$ - | \$ - | \$ - |
| 2.5 | Site Grading- Excavation for Substation Pad-Rock excavation-Hauling and disposal | 0 | CY | | 21.00 | 9.00 | \$ - | \$ - | \$ - | \$ - |

| Comp 17. New Rochelle Landing to Hempstead Harbor Landing (Shore Road) 345kV Offshore Submarine Cables - Three circuits (three lines, single circuit each) EGC-Dunwoodie 345KV / EGC-SprainBrook 345KV/ Ruland-SprainBrook 345KV | | | | | | | | | | |
|---|---|------|----------|---------------|---------------|---------------|---------------|----------------|---------------|----------------|
| 2.6 | Site Grading- Fill for Substation Pad (site borrow, compacted in place) | 0 | CY | | 2.40 | 1.60 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | Site Grading -Fill for Substation Pad (import, compacted in place) | 0 | CY | 25.00 | 2.40 | 1.60 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | Install substation 8" pad base | 0 | SY | 11.00 | 6.00 | 4.00 | \$ - | \$ - | \$ - | \$ - |
| 2.9 | Site Surfacing - Aggregate 6" Thick | 0 | SY | 16.50 | 4.50 | 3.00 | \$ - | \$ - | \$ - | \$ - |
| 2.10 | 7' Station Fence w/ Barbed Wire & Grounding | 0 | LF | 13.85 | 13.85 | 6.92 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | 20' Slide Gate & Grounding | 0 | EA | 8,100.00 | 3,245.00 | 1,305.00 | \$ - | \$ - | \$ - | \$ - |
| 2.12 | 4' Pedestrian gate | 0 | EA | 2,500.00 | 1,000.00 | 350.00 | \$ - | \$ - | \$ - | \$ - |
| 2.13 | Erosion Control-Silt fence install & remove | 0 | LF | 2.41 | 3.16 | 0.72 | \$ - | \$ - | \$ - | \$ - |
| 2.14 | Temporary fencing | 0 | LF | 7.50 | 5.25 | 2.25 | \$ - | \$ - | \$ - | \$ - |
| 2.15 | 345kV, Cable sealing end - 3 Ph | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.16 | 345kV, lighting arrester | - | CY | 703.89 | 804.44 | 502.78 | \$ - | \$ - | \$ - | \$ - |
| 2.17 | 345kV, Cable sealing end - 3 Ph | 0 | EA | 8,346.00 | 5,758.74 | 3,839.16 | \$ - | \$ - | \$ - | \$ - |
| 2.18 | 345kV, lighting arrester | 0 | EA | 4,810.00 | 2,886.00 | 1,924.00 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | AL. Bus Tubing, 5" SCH 80 | 0 | LF | 25.00 | 184.94 | 123.29 | \$ - | \$ - | \$ - | \$ - |
| 2.20 | AL. Bus fittings | 0 | LS | - | - | - | \$ - | \$ - | \$ - | \$ - |
| 2.21 | Cable, 4/0 AWG Bare Copper, 7 Strand Ground Conductor | 0 | LF | 2.09 | - | - | \$ - | \$ - | \$ - | \$ - |
| 2.22 | Caweld, DSA, 4/0 , T, CROSS | 0 | EA | 165.00 | 75.00 | | \$ - | \$ - | \$ - | \$ - |
| 2.23 | Ground Rod, 3/4" x 15' | 0 | EA | 135.00 | 67.50 | 7.50 | \$ - | \$ - | \$ - | \$ - |
| 2.24 | Trench Box Shoring (Vault) | 2 | EA | \$ - | \$ 18,079 | \$ 27,119 | \$ - | \$ 36,158 | \$ 54,237 | \$ 90,395 |
| 2.25 | Splice Vault Excavation | 863 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ 15,099 | \$ 6,471 | \$ 21,570 |
| 2.26 | Splice Vault Supply & Installation | 2 | EA | \$ 45,500 | \$ 21,450 | \$ 50,050 | \$ 91,000 | \$ 42,900 | \$ 100,100 | \$ 234,000 |
| 2.27 | Splice Vault Backfill | 259 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ 3,624 | \$ 1,553 | \$ 5,177 |
| 2.28 | Restoration (incl. Paving) | 1 | LS | \$ 15,000.00 | \$ 20,000.00 | \$ 15,000.00 | \$ 15,000 | \$ 20,000 | \$ 15,000 | \$ 50,000 |
| 2.29 | Additional misc. testing allowance (Native Backfill, Asphalt Density, Concrete Curb etc.) | 1 | LS | | \$ 35,000 | \$ 15,000 | \$ - | \$ 35,000 | \$ 15,000 | \$ 50,000 |
| 2.30 | Excess Materials Disposal to Certified Backfill | 785 | CY | | \$ 24.5 | \$ 10.5 | \$ - | \$ 19,236 | \$ 8,244 | \$ 27,481 |
| 2.31 | Rock Excavation and Removal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.32 | Dewatering | 2 | EA | | | \$ 4,000 | \$ - | \$ - | \$ 8,000 | \$ 8,000 |
| 2.33 | Contaminated Water Treatment and Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.34 | Contaminated Spoils Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.35 | Excavated material - stockpile management | 863 | CF | | \$ 1.0 | \$ 0.5 | \$ - | \$ 863 | \$ 431 | \$ 1,294 |
| 2.36 | | | | | | | \$ - | \$ - | \$ - | \$ - |
| TOTAL - Transition station : | | | | | | | \$ 106,000 | \$ 172,881 | \$ 209,037 | \$ 487,918 |
| Comp 17. New Rochelle Landing to Hempstead Harbor Landing (Shore Road) 345kV Offshore Submarine Cables | | | | | | | \$ 72,054,691 | \$ 139,717,840 | \$ 90,483,585 | \$ 302,256,116 |
| 3. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | | | | |
| Contractor Mobilization / Demobilization | | | | | | | | | | |
| 3.1 | Mob / Demob | 1 | LS | | \$ 6,000,000 | \$ 4,000,000 | \$ - | \$ 6,000,000 | \$ 4,000,000 | \$ 10,000,000 |
| Project Management, Material Handling & Amenities | | | | | | | | | | |
| 3.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 3,022,561.16 | | \$ - | \$ 3,022,561 | \$ - | \$ 3,022,561 |
| 3.3 | Construction Project Management / Supervision | 1 | LS | | 12,090,244.64 | | \$ - | \$ 12,090,245 | \$ - | \$ 12,090,245 |
| 3.4 | Utility PM and Project Oversight | 1 | LS | | 3,022,561.16 | | \$ - | \$ 3,022,561 | \$ - | \$ 3,022,561 |
| 3.5 | Site Accommodation, Facilities, Storage | 1 | LS | 3,022,561.16 | | | \$ 3,022,561 | \$ - | \$ - | \$ 3,022,561 |
| Engineering | | | | | | | | | | |
| 3.6 | Design Engineering | 1 | LS | | \$ 15,112,806 | | \$ - | \$ 15,112,806 | \$ - | \$ 15,112,806 |
| 3.7 | Surveying/Staking | 1 | LS | | \$ 2,115,793 | | \$ - | \$ 2,115,793 | \$ - | \$ 2,115,793 |
| 3.8 | Geotech | - | EA | | 2,730.00 | 1,820.00 | \$ - | \$ - | \$ - | \$ - |
| Testing & Commissioning / Inspection | | | | | | | | | | |
| 3.9 | Testing & Commissioning / End to End Testing of Subsea Cable | 2 | EA | | \$ 80,000 | | \$ - | \$ 160,000 | \$ - | \$ 160,000 |
| 3.10 | Post Cable-Lay Inspection | | EA | | | | \$ - | \$ - | \$ - | \$ - |
| Permitting and Additional Costs | | | | | | | | | | |
| 3.10 | Environmental Licensing & Permitting Costs & related legal cost | 1 | LS | | \$ 3,022,561 | | \$ - | \$ 3,022,561 | \$ - | \$ 3,022,561 |
| 3.11 | Environmental-special studies/investigation | 1 | LS | | \$ 870,000 | | \$ - | \$ 870,000 | \$ - | \$ 870,000 |
| 3.12 | Warranties / LOC's | 1 | LS | | \$ 906,768 | | \$ - | \$ 906,768 | \$ - | \$ 906,768 |
| 3.13 | Laydown Lease & temporary easement | 1 | LS | | \$ 500,000 | | \$ - | \$ 500,000 | \$ - | \$ 500,000 |
| 3.14 | Real Estate (Acquisition) | 1 | LS | | \$ - | \$ 206,485 | \$ - | \$ - | \$ 206,485 | \$ 206,485 |
| 3.15 | Legal Fees (Real estate) | 1.00 | LS | | - | 6,194.55 | \$ - | \$ - | \$ 6,195 | \$ 6,195 |
| 3.16 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 3.17 | Insurance (specialty, e.g. railroad) | | Crossing | | | | \$ - | \$ - | \$ - | \$ - |
| 3.19 | Allowance for Funds Used During Construction (AFUDC) | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 3.20 | Sales Tax on Materials | 8.8% | LS | \$ 72,054,691 | | | \$ 6,340,813 | \$ - | \$ - | \$ 6,340,813 |
| 3.21 | Contractor Permits | 1 | LS | | \$ 302,256 | | \$ - | \$ 302,256 | \$ - | \$ 302,256 |
| 3.22 | Payment & Performance Bond | 1 | LS | | | \$ 10,560,000 | \$ - | \$ - | \$ 10,560,000 | \$ 10,560,000 |

| | | | | | | | | | | |
|---|------------------------------|--|----|--|--|--|--------------|---------------|---------------|---------------|
| Comp 17. New Rochelle Landing to Hempstead Harbor Landing (Shore Road) 345kV Offshore Submarine Cables - Three circuits (three lines, single circuit each) EGC-Dunwoodie 345KV / EGC-SprainBrook 345KV/ Ruland-SprainBrook 345KV | | | | | | | | | | |
| 3.23 | Marine / Specialty Insurance | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 9,363,374 | \$ 47,125,551 | \$ 14,772,680 | \$ 71,261,605 |

NEXtera Energy- TO41 Core 6

Comp 3 - East Garden City To Hempstead Harbor Landing 345kV Onshore UG Cables -Single circuit

(EGC To Dunwoodie 345 kV)

Total: \$ 210,271,720

| NEXtera Energy- TO41 Core 6 | | | | |
|---|-----------------|---------------|---------------|----------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| Comp 3A - East Garden City To Hempstead Harbor Landing 345kV Onshore UG Cables -Double circuits (EGC To Sprain Brook 345 kV / EGC To Dunwoodie 345 kV) | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | \$ 2,537,664 | \$ 12,454,558 | \$ 4,987,906 | \$ 19,980,128 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | \$ 15,557,491 | \$ 11,869,190 | \$ 7,439,973 | \$ 34,866,655 |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | \$ 31,593,752 | \$ 19,088,955 | \$ 12,365,870 | \$ 63,048,577 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 5,591,329 | \$ 18,784,725 | \$ 6,225,565 | \$ 30,601,618 |
| SUBTOTAL (Costs): | \$ 55,280,235 | \$ 62,197,429 | \$ 31,019,314 | \$ 148,496,978 |
| CONTRACTOR MARK-UP (OH&P) | \$ 9,950,442 | \$ 11,195,537 | \$ 5,583,476 | \$ 26,729,456 |
| SUBTOTAL: | \$ 65,230,678 | \$ 73,392,966 | \$ 36,602,790 | \$ 175,226,434 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 13,046,136 | \$ 14,678,593 | \$ 7,320,558 | \$ 35,045,287 |
| TOTAL: | \$ 78,276,813 | \$ 88,071,559 | \$ 43,923,348 | \$ 210,271,720 |

| Description of Work: East Garden City - Hempstead Harbor Landing (Shore Road, single circuits). 5000 kcmil copper XLPE, single cable per phase. | | | | | | | | | | |
|---|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
| Comp 3A - East Garden City To Hempstead Harbor Landing 345kV Onshore UG Cables -Double circuits (EGC To Sprain Brook 345 kV / EGC To Dunwoodie 345 kV) | | | | | | | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | | | | | | | | | | |
| 1.1 | Environmental BMPs / SWPPP Installation, Maintenance & Repairs | 0 | LF | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 1.2 | Existing Utility Conflict and Relocation | 10.21 | Mile | | \$ 700,000 | \$ 300,000 | \$ - | \$ 7,147,000 | \$ 3,063,000 | \$ 10,210,000 |
| 1.3 | Flaggers | 320 | DAY | \$ 1,600 | \$ 4,800 | \$ 1,600 | \$ 512,000 | \$ 1,536,000 | \$ 512,000 | \$ 2,560,000 |
| 1.4 | K Rail / Lane Control / Metal Plates | 53,909 | LF | \$ 30 | \$ 18 | \$ 12 | \$ 1,617,264 | \$ 970,358 | \$ 646,906 | \$ 3,234,528 |
| 1.5 | Police Support | 12,800.0 | HR | | \$ 120 | \$ 27 | \$ - | \$ 1,536,000 | \$ 345,600 | \$ 1,881,600 |
| 1.6 | Additional Traffic Management | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Access / Clearing Costs | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.8 | Snow Removal | 40.0 | DAY | | \$ 1,000 | \$ 300 | \$ - | \$ 40,000 | \$ 12,000 | \$ 52,000 |
| 1.9 | Existing Utility Protection | 10.21 | Mile | \$ 40,000 | \$ 120,000 | \$ 40,000 | \$ 408,400 | \$ 1,225,200 | \$ 408,400 | \$ 2,042,000 |
| TOTAL - SITE PREP/ACCESS/TRAFFIC MANAGEMENT/ ACCESS: | | | | | | | \$ 2,537,664 | \$ 12,454,558 | \$ 4,987,906 | \$ 19,980,128 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | | | | | | | | | | |
| | | | | | | | | | | |
| 2.1 | Trench Box Shoring & Trench Box Install Crew | 10.21 | Miles | | \$ 139,800 | \$ 93,200 | \$ - | \$ 1,427,358 | \$ 951,572 | \$ 2,378,930 |
| 2.2 | Formwork in Trench | 351,053 | SF | \$ 2 | \$ 1.5 | \$ 0.5 | \$ 702,106 | \$ 526,579 | \$ 175,526 | \$ 1,404,211 |
| 2.3 | Trench Excavation | 29,254 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ 511,952 | \$ 219,408 | \$ 731,360 |
| 2.4 | Supply & Install 6" Sand Bedding for direct bury conduits | 1,828 | SF | \$ 50 | \$ 25 | \$ 14 | \$ 91,420 | \$ 44,796 | \$ 25,598 | \$ 161,813 |
| 2.5 | Supply & Install Thermal Backfill | 15,359 | CY | \$ 350 | \$ 245 | \$ 105 | \$ 5,375,496 | \$ 3,762,847 | \$ 1,612,649 | \$ 10,750,992 |
| 2.6 | Supply & Install Concrete Cap (6") | 0 | CY | \$ 200 | \$ 125 | \$ 50 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | Native Backfill -direct bury conduits sys Trench | 0 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | Supply & Install Ductbank Concrete | 7,150 | CY | \$ 200 | \$ 125 | \$ 50 | \$ 1,430,053 | \$ 893,783 | \$ 357,513 | \$ 2,681,349 |
| 2.9 | Conduit 8" SCH 40PVC | 215,635 | LF | \$ 28.6 | \$ 5.7 | \$ 2.4 | \$ 6,167,167 | \$ 1,222,652 | \$ 523,994 | \$ 7,913,812 |
| 2.10 | Conduit 4" SCH 40PVC | 0 | LF | \$ 9.8 | \$ 4.20 | \$ 1.8 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | Conduit 2" SCH 40PVC | 107,818 | LF | \$ 3.5 | \$ 3.15 | \$ 1.4 | \$ 379,518 | \$ 339,625 | \$ 145,554 | \$ 864,697 |
| 2.12 | Warning Tape | 107,818 | LF | \$ 0.15 | \$ 0.25 | \$ 0.10 | \$ 16,173 | \$ 26,954 | \$ 10,782 | \$ 53,909 |
| 2.13 | Trench Box Shoring (Vault) | 30 | EA | \$ - | \$ 18,079 | \$ 27,119 | \$ - | \$ 542,373 | \$ 813,559 | \$ 1,355,932 |
| 2.14 | Splice Vault Excavation | 4,987 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ 87,267 | \$ 37,400 | \$ 124,667 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
|---|---|--------------------|--------------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------|
| 2.15 | Splice Vault Supply & Installation | 30 | EA | \$ 35,000 | \$ 16,500 | \$ 38,500 | \$ 1,050,000 | \$ 495,000 | \$ 1,155,000 | \$ 2,700,000 |
| 2.16 | Splice Vault Backfill | 1,496 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ 20,944 | \$ 8,976 | \$ 29,920 |
| 2.17 | Jack and Bore along Route | 0 | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ - | \$ - | \$ - | \$ - |
| 2.18 | HDD along Route | | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | Air Test Ducts | 323,453 | LF | | | \$ 0.25 | \$ - | \$ - | \$ 80,863 | \$ 80,863 |
| 2.20 | PVMT, ASPHALT, 2" SURFACE COURSE | 17,093 | SY | \$ 14.00 | \$ 14.00 | \$ 7.00 | \$ 239,299 | \$ 239,299 | \$ 119,650 | \$ 598,248 |
| 2.21 | PVMT, AGGREGATE, 10", BASE COURSE | 4,748 | CY | \$ 22.38 | \$ 23.50 | \$ 10.07 | \$ 106,260 | \$ 111,573 | \$ 47,817 | \$ 265,651 |
| 2.22 | Concrete Ductbank Thermal Resistivity Testing (every 100CY of concrete poured) | 72 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ 28,601 | \$ 85,803 | \$ 114,404 |
| 2.23 | Concrete Ductbank Compressive Strength Testing (every 100CY of concrete poured) | 72 | EA | | \$ 10 | \$ 15 | \$ - | \$ 715 | \$ 1,073 | \$ 1,788 |
| 2.24 | Backfill Thermal Resistivity Testing (every 100CY of backfill placed) | 154 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ 61,434 | \$ 184,303 | \$ 245,737 |
| 2.25 | Additional misc. testing allowance (Native Backfill, Asphalt Density, Concrete Curb etc.) | 1 | LS | | \$ 448,266 | \$ 298,844 | \$ - | \$ 448,266 | \$ 298,844 | \$ 747,110 |
| 2.26 | Excess Materials Disposal to Certified Backfill | 42,569 | CY | | \$ 24.5 | \$ 10.5 | \$ - | \$ 1,042,930 | \$ 446,970 | \$ 1,489,901 |
| 2.27 | Rock Excavation and Removal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.28 | Dewatering | 30 | EA | | | \$ 4,000 | \$ - | \$ - | \$ 120,000 | \$ 120,000 |
| 2.29 | Contaminated Water Treatment and Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.30 | Contaminated Spoils Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Excavated material - stockpile management | 34,241 | CF | | \$ 1.0 | \$ 0.5 | \$ - | \$ 34,241 | \$ 17,121 | \$ 51,362 |
| TOTAL - ONSHORE CABLE CONDUITS & VAULTS INSTALLATION: | | | | | | | \$ 15,557,491 | \$ 11,869,190 | \$ 7,439,973 | \$ 34,866,655 |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | | | | |
| 3.1 | Circuit #1- Procurement & Installation- 345kV 5000 kmil copper XLPE | 169,813 | FT | \$ 167 | \$ 100 | \$ 67 | \$ 28,358,724 | \$ 17,015,235 | \$ 11,343,490 | \$ 56,717,448 |
| 3.2 | Circuit #1- Cable Splicing- 345kV 5000 kmil copper XLPE | 90 | EA | \$ 11,722 | \$ 9,846 | \$ 2,813 | \$ 1,054,980 | \$ 886,183 | \$ 253,195 | \$ 2,194,358 |
| 3.3 | Circuit #1- Cable Termination- 345kV 5000 kmil copper XLPE | 6 | EA | \$ 27,805 | \$ 9,846 | \$ 2,813 | \$ 166,830 | \$ 59,079 | \$ 16,880 | \$ 242,789 |
| 3.4 | Circuit #2- Procurement & Installation- 345kV 5000 kmil copper XLPE | | FT | \$ 167 | \$ 100 | \$ 67 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | Circuit #2- Cable Splicing- 345kV 5000 kmil copper XLPE | | EA | \$ 11,722 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | Circuit #2- Cable Termination- 345kV 5000 kmil copper XLPE | | EA | \$ 27,805 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | Circuit #3- Procurement & Installation- 345kV 5000 kmil copper XLPE | | FT | \$ 167 | \$ 100 | \$ 67 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | Circuit #3- Cable Splicing- 345kV 5000 kmil copper XLPE | | EA | \$ 11,722 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | Circuit #3- Cable Termination- 345kV 5000 kmil copper XLPE | | EA | \$ 27,805 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | Link Box & MH racking | 30 | EA | \$ 28,548 | \$ 17,129 | \$ 11,419 | \$ 856,454 | \$ 513,872 | \$ 342,581 | \$ 1,712,907 |
| 3.11 | Fiber Optic Cable | 56,604 | FT | \$ 7 | \$ 3 | \$ 2 | \$ 418,702 | \$ 188,526 | \$ 125,684 | \$ 732,912 |
| 3.12 | Ground Continuity Conductor | 56,604 | FT | \$ 13 | \$ 8 | \$ 5 | \$ 738,063 | \$ 426,060 | \$ 284,040 | \$ 1,448,163 |
| TOTAL - ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | \$ 31,593,752 | \$ 19,088,955 | \$ 12,365,870 | \$ 63,048,577 |
| Comp 4 - Dunwoodie To New Rochelle Landing 345kV Onshore UG Cables -single circuit(EGC To Dunwoodie 345 kV) | | | | | | | \$ 49,688,907 | \$ 43,412,704 | \$ 24,793,749 | \$ 117,895,360 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 4.1 | Mob / Demob | 1 | LS | | \$ 2,046,194 | \$ 1,364,129 | \$ - | \$ 2,046,194 | \$ 1,364,129 | \$ 3,410,323 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 4.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 1,178,953.60 | | \$ - | \$ 1,178,954 | \$ - | \$ 1,178,954 |
| 4.3 | Construction Project Management / Supervision | 1 | LS | | 4,715,814.38 | | \$ - | \$ 4,715,814 | \$ - | \$ 4,715,814 |
| 4.4 | Utility PM and Project Oversight | 1 | LS | | 1,178,953.60 | | \$ - | \$ 1,178,954 | \$ - | \$ 1,178,954 |
| 4.5 | Site Accommodation, Facilities, Storage | 1 | LS | 1,178,953.60 | | | \$ 1,178,954 | \$ - | \$ - | \$ 1,178,954 |
| | Engineering | | | | | | | | | |
| 4.6 | Design Engineering | 1.0 | LS | | \$ 5,894,768 | \$ - | \$ - | \$ 5,894,768 | \$ - | \$ 5,894,768 |
| 4.7 | LiDAR /GPR | 1.0 | LS | | \$ 212,212 | \$ 141,474 | \$ - | \$ 212,212 | \$ 141,474 | \$ 353,686 |
| 4.8 | Geotech | 11.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 30,030 | \$ 20,020 | \$ 50,050 |
| 4.9 | Surveying/Staking | 1 | LS | | \$ 495,161 | \$ 330,107 | \$ - | \$ 495,161 | \$ 330,107 | \$ 825,268 |
| | Testing & Commissioning | | | | | | | | | |
| 4.10 | Testing & Commissioning of T-Line and Equipment | 1 | EA | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| | Permitting, Indirects and Additional Costs | | | | | | | | | |
| 4.11 | Environmental Licensing & Permitting Costs & related legal cost | 1 | LS | | \$ 1,178,954 | | \$ - | \$ 1,178,954 | \$ - | \$ 1,178,954 |
| 4.12 | Environmental-special studies/investigation | | LS | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| 4.13 | Warranties / LOC's | 1 | LS | | \$ 353,686 | | \$ - | \$ 353,686 | \$ - | \$ 353,686 |
| 4.14 | Laydown Lease & temporary easement | 1 | LS | | \$ 1,500,000 | | \$ - | \$ 1,500,000 | \$ - | \$ 1,500,000 |
| 4.15 | Real Estate (Acquisition) | 1 | LS | | | \$ 50,426 | \$ - | \$ - | \$ 50,426 | \$ 50,426 |
| 4.16 | Legal Fees (Real estate) | 1.00 | LS | | - | 1,512.78 | \$ - | \$ - | \$ 1,513 | \$ 1,513 |
| 4.17 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Insurance (specialty, e.g. railroad) | | Crossing | | | \$ 1,000 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Bonds | 1 | LS | | | \$ 4,200,000 | \$ - | \$ - | \$ 4,200,000 | \$ 4,200,000 |
| 4.20 | Sales Tax on Materials | 8.88% | % of material cost | \$ 49,688,906.93 | | | \$ 4,412,375 | \$ - | \$ - | \$ 4,412,375 |
| 4.21 | Fees for permits, including roadway, railroad, building or other local permits | 1 | LS | | | \$ 117,895 | \$ - | \$ - | \$ 117,895 | \$ 117,895 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 5,591,329 | \$ 18,784,725 | \$ 6,225,565 | \$ 30,601,618 |

NEXtera Energy- TO41 Core 6

Comp 5 - Ruland To Hempstead Harbor Landing (Shore Road) 345kV Onshore UG Cables -Single circuit

(Ruland To Sprain Brook 345 kV)

Total: \$ 349,868,481

| NEXtera Energy- TO41 Core 6 | | | | | | | | |
|--|----|-----------------|--------------|--------------|-------|------------|----|-------------|
| | | Material Supply | Labor Supply | Equip Supply | Total | | | |
| Comp 5 - Ruland To Hempstead Harbor Landing (Shore Road) 345kV Onshore UG Cables -Single circuit (Ruland To Sprain Brook 345 kV) | | | | | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | \$ | 3,951,782 | \$ | 19,416,325 | \$ | 7,771,777 | \$ | 31,139,885 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | \$ | 28,082,043 | \$ | 23,492,789 | \$ | 15,680,897 | \$ | 67,255,729 |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | \$ | 49,212,741 | \$ | 29,776,525 | \$ | 19,277,107 | \$ | 98,266,373 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ | 9,181,315 | \$ | 30,875,539 | \$ | 10,363,420 | \$ | 50,420,274 |
| SUBTOTAL (Costs): | \$ | 90,427,881 | \$ | 103,561,178 | \$ | 53,093,201 | \$ | 247,082,261 |
| CONTRACTOR MARK-UP (OH&P) | \$ | 16,277,019 | \$ | 18,641,012 | \$ | 9,556,776 | \$ | 44,474,807 |
| SUBTOTAL: | \$ | 106,704,900 | \$ | 122,202,190 | \$ | 62,649,977 | \$ | 291,557,067 |
| CONTINGENCY ON ENTIRE PROJECT | \$ | 21,340,980 | \$ | 24,440,438 | \$ | 12,529,995 | \$ | 58,311,413 |
| TOTAL: | \$ | 128,045,880 | \$ | 146,642,628 | \$ | 75,179,973 | \$ | 349,868,481 |

| Description of Work: Ruland - Hempstead Harbor Landing (Shore Road, single circuit). 5000 kcmil copper XLPE, single cable per phase.. | | | | | | | | | | |
|---|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
| Comp 5 - Ruland To Hempstead Harbor Landing (Shore Road) 345kV Onshore UG Cables -Single circuit(Ruland To Sprain Brook 345 kV) | | | | | | | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | | | | | | | | | | |
| 1.1 | Environmental BMPs / SWPPP Installation, Maintenance & Repairs | 0 | LF | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 1.2 | Existing Utility Conflict and Relocation | 15.89 | Mile | | \$ 700,000 | \$ 300,000 | \$ - | \$ 11,120,200 | \$ 4,765,800 | \$ 15,886,000 |
| 1.3 | Flaggers | 500 | DAY | \$ 1,600 | \$ 4,800 | \$ 1,600 | \$ 800,000 | \$ 2,400,000 | \$ 800,000 | \$ 4,000,000 |
| 1.4 | K Rail / Lane Control / Metal Plates | 83,878 | LF | \$ 30 | \$ 18 | \$ 12 | \$ 2,516,342 | \$ 1,509,805 | \$ 1,006,537 | \$ 5,032,685 |
| 1.5 | Police Support | 20,000.0 | HR | | \$ 120 | \$ 27 | \$ - | \$ 2,400,000 | \$ 540,000 | \$ 2,940,000 |
| 1.6 | Additional Traffic Management | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Access / Clearing Costs | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.8 | Snow Removal | 80.0 | DAY | | \$ 1,000 | \$ 300 | \$ - | \$ 80,000 | \$ 24,000 | \$ 104,000 |
| 1.9 | Existing Utility Protection | 15.89 | Mile | \$ 40,000 | \$ 120,000 | \$ 40,000 | \$ 635,440 | \$ 1,906,320 | \$ 635,440 | \$ 3,177,200 |
| TOTAL - SITE PREP/ACCESS/TRAFFIC MANAGEMENT/ ACCESS: | | | | | | | \$ 3,951,782 | \$ 19,416,325 | \$ 7,771,777 | \$ 31,139,885 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | | | | | | | | | | |
| 2.1 | Trench Box Shoring & Trench Box Install Crew | 15.89 | Miles | | \$ 139,800 | \$ 93,200 | \$ - | \$ 2,220,863 | \$ 1,480,575 | \$ 3,701,438 |
| 2.2 | Formwork in Trench | 643,225 | SF | \$ 2 | \$ 1.5 | \$ 0.5 | \$ 1,286,449 | \$ 964,837 | \$ 321,612 | \$ 2,572,899 |
| 2.3 | Trench Excavation | 53,602 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ 938,036 | \$ 402,015 | \$ 1,340,051 |
| 2.4 | Supply & Install 6" Sand Bedding for direct bury conduits | 3,350 | SF | \$ 50 | \$ 25 | \$ 14 | \$ 167,506 | \$ 82,078 | \$ 46,902 | \$ 296,486 |
| 2.5 | Supply & Install Thermal Backfill | 28,141 | CY | \$ 350 | \$ 245 | \$ 105 | \$ 9,849,377 | \$ 6,894,564 | \$ 2,954,813 | \$ 19,698,755 |
| 2.6 | Supply & Install Concrete Cap (6") | 0 | CY | \$ 200 | \$ 125 | \$ 50 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | Native Backfill -direct bury conduits sys Trench | 0 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | Supply & Install Ductbank Concrete | 13,101 | CY | \$ 200 | \$ 125 | \$ 50 | \$ 2,620,247 | \$ 1,637,654 | \$ 655,062 | \$ 4,912,963 |
| 2.9 | Conduit 8" SCH 40PVC | 335,512 | LF | \$ 28.6 | \$ 5.7 | \$ 2.4 | \$ 9,595,652 | \$ 1,902,355 | \$ 815,295 | \$ 12,313,302 |
| 2.10 | Conduit 4" SCH 40PVC | 0 | LF | \$ 9.8 | \$ 4.20 | \$ 1.8 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | Conduit 2" SCH 40PVC | 167,756 | LF | \$ 3.5 | \$ 3.15 | \$ 1.4 | \$ 590,502 | \$ 528,432 | \$ 226,471 | \$ 1,345,404 |
| 2.12 | Warning Tape | 167,756 | LF | \$ 0.15 | \$ 0.25 | \$ 0.10 | \$ 25,163 | \$ 41,939 | \$ 16,776 | \$ 83,878 |
| 2.13 | Trench Box Shoring (Vault) | 49 | EA | \$ - | \$ 18,079 | \$ 27,119 | \$ - | \$ 885,876 | \$ 1,328,814 | \$ 2,214,689 |
| 2.14 | Splice Vault Excavation | 8,145 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ 142,536 | \$ 61,087 | \$ 203,622 |
| 2.15 | Splice Vault Supply & Installation | 49 | EA | \$ 35,000 | \$ 16,500 | \$ 38,500 | \$ 1,715,000 | \$ 808,500 | \$ 1,886,500 | \$ 4,410,000 |
| 2.16 | Splice Vault Backfill | 2,443 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ 34,209 | \$ 14,661 | \$ 48,869 |
| 2.17 | Jack and Bore along Route | 805 | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ 644,000 | \$ 1,288,000 | \$ 1,288,000 | \$ 3,220,000 |
| 2.18 | HDD along Route | 1,200 | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ 960,000 | \$ 1,920,000 | \$ 1,920,000 | \$ 4,800,000 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
|--|---|--------------------|--------------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------|
| 2.19 | Air Test Ducts | 503,268 | LF | | | \$ 0.25 | \$ - | \$ - | \$ 125,817 | \$ 125,817 |
| 2.20 | PVMT, ASPHALT, 2" SURFACE COURSE | 31,071 | SY | \$ 14.00 | \$ 14.00 | \$ 7.00 | \$ 434,989 | \$ 434,989 | \$ 217,495 | \$ 1,087,473 |
| 2.21 | PVMT, AGGREGATE, 10", BASE COURSE | 8,631 | CY | \$ 22.38 | \$ 23.50 | \$ 10.07 | \$ 193,156 | \$ 202,814 | \$ 86,920 | \$ 482,890 |
| 2.22 | Concrete Ductbank Thermal Resistivity Testing (every 100CY of concrete poured) | 131 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ 52,405 | \$ 157,215 | \$ 209,620 |
| 2.23 | Concrete Ductbank Compressive Strength Testing (every 100CY of concrete poured) | 131 | EA | | \$ 10 | \$ 15 | \$ - | \$ 1,310 | \$ 1,965 | \$ 3,275 |
| 2.24 | Backfill Thermal Resistivity Testing (every 100CY of backfill placed) | 281 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ 112,564 | \$ 337,693 | \$ 450,257 |
| 2.25 | Additional misc. testing allowance (Native Backfill, Asphalt Density, Concrete Curb etc.) | 1 | LS | | \$ 448,266 | \$ 298,844 | \$ - | \$ 448,266 | \$ 298,844 | \$ 747,110 |
| 2.26 | Excess Materials Disposal to Certified Backfill | 77,095 | CY | | \$ 24.5 | \$ 10.5 | \$ - | \$ 1,888,816 | \$ 809,492 | \$ 2,698,308 |
| 2.27 | Rock Excavation and Removal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.28 | Dewatering | 49 | EA | | | \$ 4,000 | \$ - | \$ - | \$ 196,000 | \$ 196,000 |
| 2.29 | Contaminated Water Treatment and Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.30 | Contaminated Spoils Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Excavated material - stockpile management | 61,747 | CF | | \$ 1.0 | \$ 0.5 | \$ - | \$ 61,747 | \$ 30,873 | \$ 92,620 |
| TOTAL - ONSHORE CABLE CONDUITS & VAULTS INSTALLATION: | | | | | | | \$ 28,082,043 | \$ 23,492,789 | \$ 15,680,897 | \$ 67,255,729 |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | | | | |
| 3.1 | Circuit #1- Procurement & Installation- 345kV 5000 kcmil copper XLPE | 264,216 | FT | \$ 167 | \$ 100 | \$ 67 | \$ 44,124,064 | \$ 26,474,438 | \$ 17,649,626 | \$ 88,248,128 |
| 3.2 | Circuit #1- Cable Splicing- 345kV 5000 kcmil copper XLPE | 147 | EA | \$ 11,722 | \$ 9,846 | \$ 2,813 | \$ 1,723,134 | \$ 1,447,433 | \$ 413,552 | \$ 3,584,119 |
| 3.3 | Circuit #1- Cable Termination- 345kV 5000 kcmil copper XLPE | 6 | EA | \$ 27,805 | \$ 9,846 | \$ 2,813 | \$ 166,830 | \$ 59,079 | \$ 16,880 | \$ 242,789 |
| 3.4 | Circuit #2- Procurement & Installation- 345kV 5000 kcmil copper XLPE | | FT | \$ 167 | \$ 100 | \$ 67 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | Circuit #2- Cable Splicing- 345kV 5000 kcmil copper XLPE | | EA | \$ 11,722 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | Circuit #2- Cable Termination- 345kV 5000 kcmil copper XLPE | | EA | \$ 27,805 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | Circuit #3- Procurement & Installation- 345kV 5000 kcmil copper XLPE | | FT | \$ 167 | \$ 100 | \$ 67 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | Circuit #3- Cable Splicing- 345kV 5000 kcmil copper XLPE | | EA | \$ 11,722 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | Circuit #3- Cable Termination- 345kV 5000 kcmil copper XLPE | | EA | \$ 27,805 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | Link Box & MH racking | 49 | EA | \$ 28,548 | \$ 17,129 | \$ 11,419 | \$ 1,398,874 | \$ 839,324 | \$ 559,550 | \$ 2,797,748 |
| 3.11 | Fiber Optic Cable | 88,072 | FT | \$ 7 | \$ 3 | \$ 2 | \$ 651,468 | \$ 293,333 | \$ 195,555 | \$ 1,140,356 |
| 3.12 | Ground Continuity Conductor | 88,072 | FT | \$ 13 | \$ 8 | \$ 5 | \$ 1,148,371 | \$ 662,918 | \$ 441,945 | \$ 2,253,234 |
| TOTAL - ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | \$ 49,212,741 | \$ 29,776,525 | \$ 19,277,107 | \$ 98,266,373 |
| Comp 4 - Dunwoodie To New Rochelle Landing 345kV Onshore UG Cables -single circuit(EGC To Dunwoodie 345 kV) | | | | | | | \$ 81,246,566 | \$ 72,685,639 | \$ 42,729,781 | \$ 196,661,987 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 4.1 | Mob / Demob | 1 | LS | | \$ 3,462,463 | \$ 2,308,308 | \$ - | \$ 3,462,463 | \$ 2,308,308 | \$ 5,770,771 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 4.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 1,966,619.87 | | \$ - | \$ 1,966,620 | \$ - | \$ 1,966,620 |
| 4.3 | Construction Project Management / Supervision | 1 | LS | | 7,866,479.47 | | \$ - | \$ 7,866,479 | \$ - | \$ 7,866,479 |
| 4.4 | Utility PM and Project Oversight | 1 | LS | | 1,966,619.87 | | \$ - | \$ 1,966,620 | \$ - | \$ 1,966,620 |
| 4.5 | Site Accommodation, Facilities, Storage | 1 | LS | 1,966,619.87 | | | \$ 1,966,620 | \$ - | \$ - | \$ 1,966,620 |
| | Engineering | | | | | | | | | |
| 4.6 | Design Engineering | 1.0 | LS | | \$ 9,833,099 | \$ - | \$ - | \$ 9,833,099 | \$ - | \$ 9,833,099 |
| 4.7 | LiDAR /GPR | 1.0 | LS | | \$ 353,992 | \$ 235,994 | \$ - | \$ 353,992 | \$ 235,994 | \$ 589,986 |
| 4.8 | Geotech | 16.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 43,680 | \$ 29,120 | \$ 72,800 |
| 4.9 | Surveying/Staking | 1 | LS | | \$ 825,980 | \$ 550,654 | \$ - | \$ 825,980 | \$ 550,654 | \$ 1,376,634 |
| | Testing & Commissioning | | | | | | | | | |
| 4.10 | Testing & Commissioning of T-Line and Equipment | 1 | EA | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| | Permitting, Indirects and Additional Costs | | | | | | | | | |
| 4.11 | Environmental Licensing & Permitting Costs & related legal cost | 1 | LS | | \$ 1,966,620 | | \$ - | \$ 1,966,620 | \$ - | \$ 1,966,620 |
| 4.12 | Environmental-special studies/investigation | | LS | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| 4.13 | Warranties / LOC's | 1 | LS | | \$ 589,986 | | \$ - | \$ 589,986 | \$ - | \$ 589,986 |
| 4.14 | Laydown Lease & temporary easement | 1 | LS | | \$ 2,000,000 | | \$ - | \$ 2,000,000 | \$ - | \$ 2,000,000 |
| 4.15 | Real Estate (Acquisition) | 1 | LS | | | \$ 60,856 | \$ - | \$ - | \$ 60,856 | \$ 60,856 |
| 4.16 | Legal Fees (Real estate) | 1.00 | LS | | - | 1,825.68 | \$ - | \$ - | \$ 1,826 | \$ 1,826 |
| 4.17 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Insurance (specialty, e.g. railroad) | | Crossing | | | \$ 1,000 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Bonds | 1 | LS | | | \$ 6,980,000 | \$ - | \$ - | \$ 6,980,000 | \$ 6,980,000 |
| 4.20 | Sales Tax on Materials | 8.88% | % of material cost | \$ 81,246,566.33 | | | \$ 7,214,695 | \$ - | \$ - | \$ 7,214,695 |
| 4.21 | Fees for permits, including roadway, railroad, building or other local permits | 1 | LS | | | \$ 196,662 | \$ - | \$ - | \$ 196,662 | \$ 196,662 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 9,181,315 | \$ 30,875,539 | \$ 10,363,420 | \$ 50,420,274 |

NEXtera Energy- TO41 Core 6

Comp 8C - Rebuld: East Garden City - Newbridge 345kV Onshore UG Cables -Double circuits

Total: \$ 133,317,472

| NEXtera Energy- TO41 Core 6 | | | | |
|---|-----------------|---------------|---------------|----------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| Comp 8C - Rebuld: East Garden City - Newbridge 345kV Onshore UG Cables -Double circuits | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | \$ 96,000 | \$ 616,000 | \$ 172,800 | \$ 884,800 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | \$ - | \$ - | \$ - | \$ - |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | \$ 44,460,251 | \$ 18,243,138 | \$ 11,801,992 | \$ 74,505,381 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 4,710,497 | \$ 10,698,010 | \$ 3,352,069 | \$ 18,760,576 |
| SUBTOTAL (Costs): | \$ 49,266,748 | \$ 29,557,148 | \$ 15,326,861 | \$ 94,150,757 |
| CONTRACTOR MARK-UP (OH&P) | \$ 8,868,015 | \$ 5,320,287 | \$ 2,758,835 | \$ 16,947,136 |
| SUBTOTAL: | \$ 58,134,763 | \$ 34,877,435 | \$ 18,085,696 | \$ 111,097,893 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 11,626,953 | \$ 6,975,487 | \$ 3,617,139 | \$ 22,219,579 |
| TOTAL: | \$ 69,761,715 | \$ 41,852,922 | \$ 21,702,835 | \$ 133,317,472 |

| Description of Work: Convert two existing 138kV circuits (462, 463) to 345kV with new cable; disconnect other two (465, 467). 5000 kcmil copper XLPE, single cable per phase. | | | | | | | | | | |
|---|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
| Comp 8C - Rebuld: East Garden City - Newbridge 345kV Onshore UG Cables -Double circuits | | | | | | | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | | | | | | | | | | |
| 1.1 | Environmental BMPs / SWPPP Installation, Maintenance & Repairs | 0 | LF | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 1.2 | Existing Utility Conflict and Relocation | 4.87 | Mile | | | | \$ - | \$ - | \$ - | \$ - |
| 1.3 | Flaggers | 60 | DAY | \$ 1,600 | \$ 4,800 | \$ 1,600 | \$ 96,000 | \$ 288,000 | \$ 96,000 | \$ 480,000 |
| 1.4 | K Rail / Lane Control / Metal Plates | 25,714 | LF | | | | \$ - | \$ - | \$ - | \$ - |
| 1.5 | Police Support | 2,400.0 | HR | | \$ 120 | \$ 27 | \$ - | \$ 288,000 | \$ 64,800 | \$ 352,800 |
| 1.6 | Additional Traffic Management | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Access / Clearing Costs | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.8 | Snow Removal | 40.0 | DAY | | \$ 1,000 | \$ 300 | \$ - | \$ 40,000 | \$ 12,000 | \$ 52,000 |
| 1.9 | Existing Utility Protection | - | Mile | \$ 40,000 | \$ 120,000 | \$ 40,000 | \$ - | \$ - | \$ - | \$ - |
| TOTAL - SITE PREP/ACCESS/TRAFFIC MANAGEMENT/ ACCESS: | | | | | | | \$ 96,000 | \$ 616,000 | \$ 172,800 | \$ 884,800 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | | | | | | | | | | |
| 2.1 | Trench Box Shoring & Trench Box Install Crew | 0.00 | Miles | | \$ 139,800 | \$ 93,200 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | Formwork in Trench | 0 | SF | \$ 2 | \$ 1.5 | \$ 0.5 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | Trench Excavation | - | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ - | \$ - | \$ - |
| 2.4 | Supply & Install 6" Sand Bedding for direct bury conduits | 0 | SF | \$ 50 | \$ 25 | \$ 14 | \$ - | \$ - | \$ - | \$ - |
| 2.5 | Supply & Install Thermal Backfill | 0 | CY | \$ 350 | \$ 245 | \$ 105 | \$ - | \$ - | \$ - | \$ - |
| 2.6 | Supply & Install Concrete Cap (6") | 0 | CY | \$ 200 | \$ 125 | \$ 50 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | Native Backfill -direct bury conduits sys Trench | 0 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | Supply & Install Ductbank Concrete | 0 | CY | \$ 200 | \$ 125 | \$ 50 | \$ - | \$ - | \$ - | \$ - |
| 2.9 | Conduit 8" SCH 40PVC | 0 | LF | \$ 28.6 | \$ 5.7 | \$ 2.4 | \$ - | \$ - | \$ - | \$ - |
| 2.10 | Conduit 4" SCH 40PVC | 0 | LF | \$ 9.8 | \$ 4.20 | \$ 1.8 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | Conduit 2" SCH 40PVC | 0 | LF | \$ 3.5 | \$ 3.15 | \$ 1.4 | \$ - | \$ - | \$ - | \$ - |
| 2.12 | Warning Tape | 0 | LF | \$ 0.15 | \$ 0.25 | \$ 0.10 | \$ - | \$ - | \$ - | \$ - |
| 2.13 | Trench Box Shoring (Vault) | 0 | EA | \$ - | \$ 18,079 | \$ 27,119 | \$ - | \$ - | \$ - | \$ - |
| 2.14 | Splice Vault Excavation | 0 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ - | \$ - | \$ - |
| 2.15 | Splice Vault Supply & Installation | 0 | EA | \$ 35,000 | \$ 16,500 | \$ 38,500 | \$ - | \$ - | \$ - | \$ - |
| 2.16 | Splice Vault Backfill | 0 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ - | \$ - | \$ - |
| 2.17 | Jack and Bore along Route | 0 | LF | \$ 2,400 | \$ 4,800 | \$ 4,800 | \$ - | \$ - | \$ - | \$ - |
| 2.18 | HDD along Route | 0 | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
|--|---|--------------------|--------------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 2.19 | Air Test Ducts | 0 | LF | | | \$ 0.25 | \$ - | \$ - | \$ - | \$ - |
| 2.20 | PVMT, ASPHALT, 2" SURFACE COURSE | 0 | SY | \$ 14.00 | \$ 14.00 | \$ 7.00 | \$ - | \$ - | \$ - | \$ - |
| 2.21 | PVMT, AGGREGATE, 10", BASE COURSE | 0 | CY | \$ 22.38 | \$ 23.50 | \$ 10.07 | \$ - | \$ - | \$ - | \$ - |
| 2.22 | Concrete Ductbank Thermal Resistivity Testing (every 100CY of concrete poured) | 0 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ - | \$ - | \$ - |
| 2.23 | Concrete Ductbank Compressive Strength Testing (every 100CY of concrete poured) | 0 | EA | | \$ 10 | \$ 15 | \$ - | \$ - | \$ - | \$ - |
| 2.24 | Backfill Thermal Resistivity Testing (every 100CY of backfill placed) | 0 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ - | \$ - | \$ - |
| 2.25 | Additional misc. testing allowance (Native Backfill, Asphalt Density, Concrete Curb etc.) | 0 | LS | | \$ 448,266 | \$ 298,844 | \$ - | \$ - | \$ - | \$ - |
| 2.26 | Excess Materials Disposal to Certified Backfill | 0 | CY | | \$ 24.5 | \$ 10.5 | \$ - | \$ - | \$ - | \$ - |
| 2.27 | Rock Excavation and Removal | 0 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.28 | Dewatering | 0 | EA | | | \$ 4,000 | \$ - | \$ - | \$ - | \$ - |
| 2.29 | Contaminated Water Treatment and Disposal | 0 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.30 | Contaminated Spoils Disposal | 0 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Excavated material - stockpile management | 0 | CF | | \$ 1.0 | \$ 0.5 | \$ - | \$ - | \$ - | \$ - |
| TOTAL - ONSHORE CABLE CONDUITS & VAULTS INSTALLATION: | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | | | | |
| 3.1 | Circuit #1- Procurement & Installation- 345kV 5000 kcmil copper XLPE | 80,998 | FT | \$ 167 | \$ 100 | \$ 67 | \$ 13,526,639 | \$ 8,115,984 | \$ 5,410,656 | \$ 27,053,279 |
| 3.2 | Circuit #1- Cable Splicing- 345kV 5000 kcmil copper XLPE | 42 | EA | \$ 11,722 | \$ 9,846 | \$ 2,813 | \$ 492,324 | \$ 413,552 | \$ 118,158 | \$ 1,024,034 |
| 3.3 | Circuit #1- Cable Termination- 345kV 5000 kcmil copper XLPE | 6 | EA | \$ 27,805 | \$ 9,846 | \$ 2,813 | \$ 166,830 | \$ 59,079 | \$ 16,880 | \$ 242,789 |
| 3.4 | Circuit #2- Procurement & Installation- 345kV 5000 kcmil copper XLPE | 80,998 | FT | \$ 167 | \$ 100 | \$ 67 | \$ 13,526,639 | \$ 8,115,984 | \$ 5,410,656 | \$ 27,053,279 |
| 3.5 | Circuit #2- Cable Splicing- 345kV 5000 kcmil copper XLPE | 42 | EA | \$ 11,722 | \$ 9,846 | \$ 2,813 | \$ 492,324 | \$ 413,552 | \$ 118,158 | \$ 1,024,034 |
| 3.6 | Circuit #2- Cable Termination- 345kV 5000 kcmil copper XLPE | 6 | EA | \$ 27,805 | \$ 9,846 | \$ 2,813 | \$ 166,830 | \$ 59,079 | \$ 16,880 | \$ 242,789 |
| 3.7 | Circuit #3- Procurement & Installation- 345kV 5000 kcmil copper XLPE | | FT | \$ 167 | \$ 100 | \$ 67 | \$ 13,526,639 | \$ - | \$ - | \$ 13,526,639 |
| 3.8 | Circuit #3- Cable Splicing- 345kV 5000 kcmil copper XLPE | | EA | \$ 11,722 | \$ 9,846 | \$ 2,813 | \$ 492,324 | \$ - | \$ - | \$ 492,324 |
| 3.9 | Circuit #3- Cable Termination- 345kV 5000 kcmil copper XLPE | | EA | \$ 27,805 | \$ 9,846 | \$ 2,813 | \$ 166,830 | \$ - | \$ - | \$ 166,830 |
| 3.10 | Link Box & MH racking | 28 | EA | \$ 28,548 | \$ 17,129 | \$ 11,419 | \$ 799,357 | \$ 479,614 | \$ 319,743 | \$ 1,598,713 |
| 3.11 | Fiber Optic Cable | 53,999 | FT | \$ 7 | \$ 3 | \$ 2 | \$ 399,427 | \$ 179,848 | \$ 119,898 | \$ 699,173 |
| 3.12 | Ground Continuity Conductor | 53,999 | FT | \$ 13 | \$ 8 | \$ 5 | \$ 704,087 | \$ 406,447 | \$ 270,965 | \$ 1,381,499 |
| TOTAL - ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | \$ 44,460,251 | \$ 18,243,138 | \$ 11,801,992 | \$ 74,505,381 |
| Comp 4 - Dunwoodie To New Rochelle Landing 345kV Onshore UG Cables -single circuit(EGC To Dunwoodie 345 kV) | | | | | | | \$ 44,556,251 | \$ 18,859,138 | \$ 11,974,792 | \$ 75,390,181 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 4.1 | Mob / Demob | 1 | LS | | \$ 925,018 | \$ 616,679 | \$ - | \$ 925,018 | \$ 616,679 | \$ 1,541,697 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 4.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 753,901.81 | | \$ - | \$ 753,902 | \$ - | \$ 753,902 |
| 4.3 | Construction Project Management / Supervision | 1 | LS | | 3,015,607.24 | | \$ - | \$ 3,015,607 | \$ - | \$ 3,015,607 |
| 4.4 | Utility PM and Project Oversight | 1 | LS | | 753,901.81 | | \$ - | \$ 753,902 | \$ - | \$ 753,902 |
| 4.5 | Site Accommodation, Facilities, Storage | 1 | LS | 753,901.81 | | | \$ 753,902 | \$ - | \$ - | \$ 753,902 |
| | Engineering | | | | | | | | | |
| 4.6 | Design Engineering | 1.0 | LS | | \$ 3,769,509 | \$ - | \$ - | \$ 3,769,509 | \$ - | \$ 3,769,509 |
| 4.7 | LiDAR /GPR | - | LS | | \$ 135,702 | \$ 90,468 | \$ - | \$ - | \$ - | \$ - |
| 4.8 | Geotech | - | EA | | 2,730.00 | 1,820.00 | \$ - | \$ - | \$ - | \$ - |
| 4.9 | Surveying/Staking | - | LS | | \$ 316,639 | \$ 211,093 | \$ - | \$ - | \$ - | \$ - |
| | Testing & Commissioning | | | | | | | | | |
| 4.10 | Testing & Commissioning of T-Line and Equipment | 1 | EA | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| | Permitting, Indirects and Additional Costs | | | | | | | | | |
| 4.11 | Environmental Licensing & Permitting Costs & related legal cost | 1 | LS | | \$ 753,902 | | \$ - | \$ 753,902 | \$ - | \$ 753,902 |
| 4.12 | Environmental-special studies/investigation | | LS | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| 4.13 | Warranties / LOC's | 1 | LS | | \$ 226,171 | | \$ - | \$ 226,171 | \$ - | \$ 226,171 |
| 4.14 | Laydown Lease & temporary easement | 1 | LS | | \$ 500,000 | | \$ - | \$ 500,000 | \$ - | \$ 500,000 |
| 4.15 | Real Estate (Acquisition) | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 4.16 | Legal Fees (Real estate) | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 4.17 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Insurance (specialty, e.g. railroad) | | Crossing | | | \$ 1,000 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Bonds | 1 | LS | | | \$ 2,660,000 | \$ - | \$ - | \$ 2,660,000 | \$ 2,660,000 |
| 4.20 | Sales Tax on Materials | 8.88% | % of material cost | \$ 44,556,251.01 | | | \$ 3,956,595 | \$ - | \$ - | \$ 3,956,595 |
| 4.21 | Fees for permits, including roadway, railroad, building or other local permits | 1 | LS | | | \$ 75,390 | \$ - | \$ - | \$ 75,390 | \$ 75,390 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 4,710,497 | \$ 10,698,010 | \$ 3,352,069 | \$ 18,760,576 |

NEXtera Energy- TO41 Core 6

Comp 10A - East Graden City To Valley Stream 345kV Onshore UG Cables -Triple circuits

Total: \$ 394,231,294

| NEXtera Energy- TO41 Core 6 | | | | |
|---|-----------------|----------------|---------------|----------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| Comp 10A - East Graden City To Valley Stream 345kV Onshore UG Cables -Triple circuits | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | \$ 2,116,608 | \$ 10,859,085 | \$ 4,087,123 | \$ 17,062,816 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | \$ 27,896,453 | \$ 19,480,913 | \$ 14,097,858 | \$ 61,475,224 |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | \$ 71,900,202 | \$ 44,673,808 | \$ 27,284,346 | \$ 143,858,356 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 11,273,862 | \$ 33,325,469 | \$ 11,416,205 | \$ 56,015,535 |
| SUBTOTAL (Costs): | \$ 113,187,125 | \$ 108,339,275 | \$ 56,885,531 | \$ 278,411,931 |
| CONTRACTOR MARK-UP (OH&P) | \$ 20,373,682 | \$ 19,501,069 | \$ 10,239,396 | \$ 50,114,148 |
| SUBTOTAL: | \$ 133,560,807 | \$ 127,840,344 | \$ 67,124,927 | \$ 328,526,078 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 26,712,161 | \$ 25,568,069 | \$ 13,424,985 | \$ 65,705,216 |
| TOTAL: | \$ 160,272,969 | \$ 153,408,413 | \$ 80,549,913 | \$ 394,231,294 |

| Description of Work: Replace two existing 138kv UG cable with three 345kv 5000 kcmil copper XLPE, single cable per phase. | | | | | | | | | | |
|---|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
| Comp 10A - East Graden City To Valley Stream 345kV Onshore UG Cables -Triple circuits | | | | | | | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | | | | | | | | | | |
| 1.1 | Environmental BMPs / SWPPP Installation, Maintenance & Repairs | 0 | LF | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 1.2 | Existing Utility Conflict and Relocation | 7.12 | Mile | | \$ 700,000 | \$ 300,000 | \$ - | \$ 4,984,000 | \$ 2,136,000 | \$ 7,120,000 |
| 1.3 | Flaggers | 440 | DAY | \$ 1,600 | \$ 4,800 | \$ 1,600 | \$ 704,000 | \$ 2,112,000 | \$ 704,000 | \$ 3,520,000 |
| 1.4 | K Rail / Lane Control / Metal Plates | 37,594 | LF | \$ 30 | \$ 18 | \$ 12 | \$ 1,127,808 | \$ 676,685 | \$ 451,123 | \$ 2,255,616 |
| 1.5 | Police Support | 17,600.0 | HR | | \$ 120 | \$ 27 | \$ - | \$ 2,112,000 | \$ 475,200 | \$ 2,587,200 |
| 1.6 | Additional Traffic Management | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Access / Clearing Costs | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.8 | Snow Removal | 120.0 | DAY | | \$ 1,000 | \$ 300 | \$ - | \$ 120,000 | \$ 36,000 | \$ 156,000 |
| 1.9 | Existing Utility Protection | 7.12 | Mile | \$ 40,000 | \$ 120,000 | \$ 40,000 | \$ 284,800 | \$ 854,400 | \$ 284,800 | \$ 1,424,000 |
| TOTAL - SITE PREP/ACCESS/TRAFFIC MANAGEMENT/ ACCESS: | | | | | | | \$ 2,116,608 | \$ 10,859,085 | \$ 4,087,123 | \$ 17,062,816 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | | | | | | | | | | |
| 2.1 | Trench Box Shoring & Trench Box Install Crew | 7.12 | Miles | | \$ 139,800 | \$ 93,200 | \$ - | \$ 995,376 | \$ 663,584 | \$ 1,658,960 |
| 2.2 | Formwork in Trench | 292,109 | SF | \$ 2 | \$ 1.5 | \$ 0.5 | \$ 584,218 | \$ 438,163 | \$ 146,054 | \$ 1,168,435 |
| 2.3 | Trench Excavation | 45,980 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ 804,652 | \$ 344,851 | \$ 1,149,502 |
| 2.4 | Supply & Install 6" Sand Bedding for direct bury conduits | 2,874 | SF | \$ 50 | \$ 25 | \$ 14 | \$ 143,688 | \$ 70,407 | \$ 40,233 | \$ 254,327 |
| 2.5 | Supply & Install Thermal Backfill | 18,105 | CY | \$ 350 | \$ 245 | \$ 105 | \$ 6,336,631 | \$ 4,435,642 | \$ 1,900,989 | \$ 12,673,262 |
| 2.6 | Supply & Install Concrete Cap (6") | 0 | CY | \$ 200 | \$ 125 | \$ 50 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | Native Backfill -direct bury conduits sys Trench | 0 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | Supply & Install Ductbank Concrete | 14,924 | CY | \$ 200 | \$ 125 | \$ 50 | \$ 2,984,784 | \$ 1,865,490 | \$ 746,196 | \$ 5,596,470 |
| 2.9 | Conduit 8" SCH 40PVC | 451,123 | LF | \$ 28.6 | \$ 5.7 | \$ 2.4 | \$ 12,902,124 | \$ 2,557,869 | \$ 1,096,229 | \$ 16,556,221 |
| 2.10 | Conduit 4" SCH 40PVC | 0 | LF | \$ 9.8 | \$ 4.20 | \$ 1.8 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | Conduit 2" SCH 40PVC | 300,749 | LF | \$ 3.5 | \$ 3.15 | \$ 1.4 | \$ 1,058,636 | \$ 947,359 | \$ 406,011 | \$ 2,412,005 |
| 2.12 | Warning Tape | 75,187 | LF | \$ 0.15 | \$ 0.25 | \$ 0.10 | \$ 11,278 | \$ 18,797 | \$ 7,519 | \$ 37,594 |
| 2.13 | Trench Box Shoring (Vault) | 72 | EA | \$ - | \$ 18,079 | \$ 27,119 | \$ - | \$ 1,301,695 | \$ 1,952,542 | \$ 3,254,237 |
| 2.14 | Splice Vault Excavation | 11,968 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ 209,440 | \$ 89,760 | \$ 299,200 |
| 2.15 | Splice Vault Supply & Installation | 72 | EA | \$ 35,000 | \$ 16,500 | \$ 38,500 | \$ 2,520,000 | \$ 1,188,000 | \$ 2,772,000 | \$ 6,480,000 |
| 2.16 | Splice Vault Backfill | 3,590 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ 50,266 | \$ 21,542 | \$ 71,808 |
| 2.17 | Jack and Bore along Route | 360 | LF | \$ 2,400 | \$ 4,800 | \$ 4,800 | \$ 864,000 | \$ 1,728,000 | \$ 1,728,000 | \$ 4,320,000 |
| 2.18 | HDD along Route | 0 | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | Air Test Ducts | 751,872 | LF | | | \$ 0.25 | \$ - | \$ - | \$ 187,968 | \$ 187,968 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
|---|---|--------------------|--------------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------|
| 2.20 | PVMT, ASPHALT, 2" SURFACE COURSE | 24,292 | SY | \$ 14.00 | \$ 14.00 | \$ 7.00 | \$ 340,082 | \$ 340,082 | \$ 170,041 | \$ 850,206 |
| 2.21 | PVMT, AGGREGATE, 10", BASE COURSE | 6,748 | CY | \$ 22.38 | \$ 23.50 | \$ 10.07 | \$ 151,013 | \$ 158,563 | \$ 67,956 | \$ 377,532 |
| 2.22 | Concrete Ductbank Thermal Resistivity Testing (every 100CY of concrete poured) | 149 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ 59,696 | \$ 179,087 | \$ 238,783 |
| 2.23 | Concrete Ductbank Compressive Strength Testing (every 100CY of concrete poured) | 149 | EA | | \$ 10 | \$ 15 | \$ - | \$ 1,492 | \$ 2,239 | \$ 3,731 |
| 2.24 | Backfill Thermal Resistivity Testing (every 100CY of backfill placed) | 181 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ 72,419 | \$ 217,256 | \$ 289,675 |
| 2.25 | Additional misc. testing allowance (Native Backfill, Asphalt Density, Concrete Curb etc.) | 1 | LS | | \$ 448,266 | \$ 298,844 | \$ - | \$ 448,266 | \$ 298,844 | \$ 747,110 |
| 2.26 | Excess Materials Disposal to Certified Backfill | 70,665 | CY | | \$ 24.5 | \$ 10.5 | \$ - | \$ 1,731,292 | \$ 741,982 | \$ 2,473,275 |
| 2.27 | Rock Excavation and Removal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.28 | Dewatering | 72 | EA | | | \$ 4,000 | \$ - | \$ - | \$ 288,000 | \$ 288,000 |
| 2.29 | Contaminated Water Treatment and Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.30 | Contaminated Spoils Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Excavated material - stockpile management | 57,948 | CF | | \$ 1.0 | \$ 0.5 | \$ - | \$ 57,948 | \$ 28,974 | \$ 86,922 |
| TOTAL - ONSHORE CABLE CONDUITS & VAULTS INSTALLATION: | | | | | | | \$ 27,896,453 | \$ 19,480,913 | \$ 14,097,858 | \$ 61,475,224 |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | | | | |
| 3.1 | Circuit #1- Procurement & Installation- 345kV 5000 kcmil copper XLPE | 118,420 | FT | \$ 167 | \$ 100 | \$ 67 | \$ 19,776,113 | \$ 11,865,668 | \$ 7,910,445 | \$ 39,552,227 |
| 3.2 | Circuit #1- Cable Splicing- 345kV 5000 kcmil copper XLPE | 216 | EA | \$ 11,722 | \$ 9,846 | \$ 2,813 | \$ 2,531,952 | \$ 2,126,840 | \$ 607,668 | \$ 5,266,460 |
| 3.3 | Circuit #1- Cable Termination- 345kV 5000 kcmil copper XLPE | 6 | EA | \$ 27,805 | \$ 9,846 | \$ 2,813 | \$ 166,830 | \$ 59,079 | \$ 16,880 | \$ 242,789 |
| 3.4 | Circuit #2- Procurement & Installation- 345kV 5000 kcmil copper XLPE | 118,420 | FT | \$ 167 | \$ 100 | \$ 67 | \$ 19,776,113 | \$ 11,865,668 | \$ 7,910,445 | \$ 39,552,227 |
| 3.5 | Circuit #2- Cable Splicing- 345kV 5000 kcmil copper XLPE | 216 | EA | \$ 11,722 | \$ 9,846 | \$ 2,813 | \$ 2,531,952 | \$ 2,126,840 | \$ 607,668 | \$ 5,266,460 |
| 3.6 | Circuit #2- Cable Termination- 345kV 5000 kcmil copper XLPE | 6 | EA | \$ 27,805 | \$ 9,846 | \$ 2,813 | \$ 166,830 | \$ 59,079 | \$ 16,880 | \$ 242,789 |
| 3.7 | Circuit #3- Procurement & Installation- 345kV 5000 kcmil copper XLPE | 118,420 | FT | \$ 167 | \$ 100 | \$ 67 | \$ 19,776,113 | \$ 11,865,668 | \$ 7,910,445 | \$ 39,552,227 |
| 3.8 | Circuit #3- Cable Splicing- 345kV 5000 kcmil copper XLPE | 216 | EA | \$ 11,722 | \$ 9,846 | \$ 2,813 | \$ 2,531,952 | \$ 2,126,840 | \$ 607,668 | \$ 5,266,460 |
| 3.9 | Circuit #3- Cable Termination- 345kV 5000 kcmil copper XLPE | 6 | EA | \$ 27,805 | \$ 9,846 | \$ 2,813 | \$ 166,830 | \$ 59,079 | \$ 16,880 | \$ 242,789 |
| 3.10 | Link Box & MH racking | 72 | EA | \$ 28,548 | \$ 17,129 | \$ 11,419 | \$ 2,055,488 | \$ 1,233,293 | \$ 822,195 | \$ 4,110,977 |
| 3.11 | Fiber Optic Cable | 118,420 | FT | \$ 7 | \$ 3 | \$ 2 | \$ 875,952 | \$ 394,409 | \$ 262,939 | \$ 1,533,300 |
| 3.12 | Ground Continuity Conductor | 118,420 | FT | \$ 13 | \$ 8 | \$ 5 | \$ 1,544,076 | \$ 891,346 | \$ 594,231 | \$ 3,029,653 |
| TOTAL - ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | \$ 71,900,202 | \$ 44,673,808 | \$ 27,284,346 | \$ 143,858,356 |
| Comp 4 - Dunwoodie To New Rochelle Landing 345kV Onshore UG Cables -single circuit(EGC To Dunwoodie 345 kV) | | | | | | | \$ 101,913,263 | \$ 75,013,806 | \$ 45,469,327 | \$ 222,396,395 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 4.1 | Mob / Demob | 1 | LS | | \$ 3,614,494 | \$ 2,409,663 | \$ - | \$ 3,614,494 | \$ 2,409,663 | \$ 6,024,157 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 4.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 2,223,963.95 | | \$ - | \$ 2,223,964 | \$ - | \$ 2,223,964 |
| 4.3 | Construction Project Management / Supervision | 1 | LS | | 8,895,855.82 | | \$ - | \$ 8,895,856 | \$ - | \$ 8,895,856 |
| 4.4 | Utility PM and Project Oversight | 1 | LS | | 2,223,963.95 | | \$ - | \$ 2,223,964 | \$ - | \$ 2,223,964 |
| 4.5 | Site Accommodation, Facilities, Storage | 1 | LS | 2,223,963.95 | | | \$ 2,223,964 | \$ - | \$ - | \$ 2,223,964 |
| | Engineering | | | | | | | | | |
| 4.6 | Design Engineering | 1.0 | LS | | \$ 11,119,820 | \$ - | \$ - | \$ 11,119,820 | \$ - | \$ 11,119,820 |
| 4.7 | LIDAR /GPR | 1.0 | LS | | \$ 400,314 | \$ 266,876 | \$ - | \$ 400,314 | \$ 266,876 | \$ 667,189 |
| 4.8 | Geotech | 8.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 21,840 | \$ 14,560 | \$ 36,400 |
| 4.9 | Surveying/Staking | 1 | LS | | \$ 934,065 | \$ 622,710 | \$ - | \$ 934,065 | \$ 622,710 | \$ 1,556,775 |
| | Testing & Commissioning | | | | | | | | | |
| 4.10 | Testing & Commissioning of T-Line and Equipment | 1 | EA | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| | Permitting, Indirects and Additional Costs | | | | | | | | | |
| 4.11 | Environmental Licensing & Permitting Costs & related legal cost | 1 | LS | | \$ 2,223,964 | | \$ - | \$ 2,223,964 | \$ - | \$ 2,223,964 |
| 4.12 | Environmental-special studies/investigation | | LS | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| 4.13 | Warranties / LOC's | 1 | LS | | \$ 667,189 | | \$ - | \$ 667,189 | \$ - | \$ 667,189 |
| 4.14 | Laydown Lease & temporary easement | 1 | LS | | \$ 1,000,000 | | \$ - | \$ 1,000,000 | \$ - | \$ 1,000,000 |
| 4.15 | Real Estate (Acquisition) | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 4.16 | Legal Fees (Real estate) | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 4.17 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Insurance (specialty, e.g. railroad) | | Crossing | | | \$ 1,000 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Bonds | 1 | LS | | | \$ 7,880,000 | \$ - | \$ - | \$ 7,880,000 | \$ 7,880,000 |
| 4.20 | Sales Tax on Materials | 8.88% | % of material cost | \$ 101,913,262.97 | | | \$ 9,049,898 | \$ - | \$ - | \$ 9,049,898 |
| 4.21 | Fees for permits, including roadway, railroad, building or other local permits | 1 | LS | | | \$ 222,396 | \$ - | \$ - | \$ 222,396 | \$ 222,396 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 11,273,862 | \$ 33,325,469 | \$ 11,416,205 | \$ 56,015,535 |

NEXTera Energy- TO41 Core 6

Comp 11 - Pilgram to Northport 138kV Onshore UG Cables -Single circuit

(Pilgram to Northport kV)

Total: \$ 165,653,108

| NEXTera Energy- TO41 Core 6 | | | | |
|---|-----------------|---------------|---------------|----------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| Comp 5 - Ruland To Hempstead Harbor Landing (Shore Road) 345kV Onshore UG Cables -Single circuit(Ruland To Sprain Brook 345 kV) | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | \$ 2,070,656 | \$ 10,187,434 | \$ 4,078,822 | \$ 16,336,912 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | \$ 14,119,503 | \$ 11,092,018 | \$ 6,785,369 | \$ 31,996,890 |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | \$ 22,156,432 | \$ 13,721,784 | \$ 8,855,275 | \$ 44,733,491 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 4,335,850 | \$ 14,671,872 | \$ 4,911,643 | \$ 23,919,365 |
| SUBTOTAL (Costs): | \$ 42,682,442 | \$ 49,673,108 | \$ 24,631,109 | \$ 116,986,658 |
| CONTRACTOR MARK-UP (OH&P) | \$ 7,682,840 | \$ 8,941,159 | \$ 4,433,600 | \$ 21,057,599 |
| SUBTOTAL: | \$ 50,365,281 | \$ 58,614,267 | \$ 29,064,708 | \$ 138,044,257 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 10,073,056 | \$ 11,722,853 | \$ 5,812,942 | \$ 27,608,851 |
| TOTAL: | \$ 60,438,338 | \$ 70,337,121 | \$ 34,877,650 | \$ 165,653,108 |

| Description of Work: Ruland - 138kV (399/567/900 MVA) 5000 kcmil copper XLPE, single cable per phase (8.34 miles) | | | | | | | | | | |
|---|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
| Comp 5 - Ruland To Hempstead Harbor Landing (Shore Road) 345kV Onshore UG Cables -Single circuit(Ruland To Sprain Brook 345 kV) | | | | | | | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | | | | | | | | | | |
| 1.1 | Environmental BMPs / SWPPP Installation, Maintenance & Repairs | 0 | LF | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 1.2 | Existing Utility Conflict and Relocation | 8.34 | Mile | | \$ 700,000 | \$ 300,000 | \$ - | \$ 5,838,000 | \$ 2,502,000 | \$ 8,340,000 |
| 1.3 | Flaggers | 260 | DAY | \$ 1,600 | \$ 4,800 | \$ 1,600 | \$ 416,000 | \$ 1,248,000 | \$ 416,000 | \$ 2,080,000 |
| 1.4 | K Rail / Lane Control / Metal Plates | 44,035 | LF | \$ 30 | \$ 18 | \$ 12 | \$ 1,321,056 | \$ 792,634 | \$ 528,422 | \$ 2,642,112 |
| 1.5 | Police Support | 10,400.0 | HR | | \$ 120 | \$ 27 | \$ - | \$ 1,248,000 | \$ 280,800 | \$ 1,528,800 |
| 1.6 | Additional Traffic Management | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Access / Clearing Costs | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.8 | Snow Removal | 60.0 | DAY | | \$ 1,000 | \$ 300 | \$ - | \$ 60,000 | \$ 18,000 | \$ 78,000 |
| 1.9 | Existing Utility Protection | 8.34 | Mile | \$ 40,000 | \$ 120,000 | \$ 40,000 | \$ 333,600 | \$ 1,000,800 | \$ 333,600 | \$ 1,668,000 |
| TOTAL - SITE PREP/ACCESS/TRAFFIC MANAGEMENT/ ACCESS: | | | | | | | \$ 2,070,656 | \$ 10,187,434 | \$ 4,078,822 | \$ 16,336,912 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | | | | | | | | | | |
| 2.1 | Trench Box Shoring & Trench Box Install Crew | 8.34 | Miles | | \$ 139,800 | \$ 93,200 | \$ - | \$ 1,165,932 | \$ 777,288 | \$ 1,943,220 |
| 2.2 | Formwork in Trench | 346,914 | SF | \$ 2 | \$ 1.5 | \$ 0.5 | \$ 693,827 | \$ 520,370 | \$ 173,457 | \$ 1,387,654 |
| 2.3 | Trench Excavation | 28,909 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ 505,916 | \$ 216,821 | \$ 722,737 |
| 2.4 | Supply & Install 6" Sand Bedding for direct bury conduits | 1,807 | SF | \$ 50 | \$ 25 | \$ 14 | \$ 90,342 | \$ 44,268 | \$ 25,296 | \$ 159,905 |
| 2.5 | Supply & Install Thermal Backfill | 15,177 | CY | \$ 350 | \$ 245 | \$ 105 | \$ 5,312,115 | \$ 3,718,480 | \$ 1,593,634 | \$ 10,624,229 |
| 2.6 | Supply & Install Concrete Cap (6") | 0 | CY | \$ 200 | \$ 125 | \$ 50 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | Native Backfill -direct bury conduits sys Trench | 0 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | Supply & Install Ductbank Concrete | 7,066 | CY | \$ 200 | \$ 125 | \$ 50 | \$ 1,413,191 | \$ 883,244 | \$ 353,298 | \$ 2,649,733 |
| 2.9 | Conduit 8" SCH 40PVC | 176,141 | LF | \$ 28.6 | \$ 5.7 | \$ 2.4 | \$ 5,037,627 | \$ 998,718 | \$ 428,022 | \$ 6,464,367 |
| 2.10 | Conduit 4" SCH 40PVC | 0 | LF | \$ 9.8 | \$ 4.20 | \$ 1.8 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | Conduit 2" SCH 40PVC | 88,070 | LF | \$ 3.5 | \$ 3.15 | \$ 1.4 | \$ 310,008 | \$ 277,422 | \$ 118,895 | \$ 706,325 |
| 2.12 | Warning Tape | 88,070 | LF | \$ 0.15 | \$ 0.25 | \$ 0.10 | \$ 13,211 | \$ 22,018 | \$ 8,807 | \$ 44,035 |
| 2.13 | Trench Box Shoring (Vault) | 24 | EA | \$ - | \$ 18,079 | \$ 27,119 | \$ - | \$ 433,898 | \$ 650,847 | \$ 1,084,746 |
| 2.14 | Splice Vault Excavation | 3,285 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ 57,493 | \$ 24,640 | \$ 82,133 |
| 2.15 | Splice Vault Supply & Installation | 24 | EA | \$ 35,000 | \$ 16,500 | \$ 38,500 | \$ 840,000 | \$ 396,000 | \$ 924,000 | \$ 2,160,000 |
| 2.16 | Splice Vault Backfill | 986 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ 13,798 | \$ 5,914 | \$ 19,712 |
| 2.17 | Jack and Bore along Route | 95 | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ 76,000 | \$ 152,000 | \$ 152,000 | \$ 380,000 |
| 2.18 | HDD along Route | 0 | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | Air Test Ducts | 264,211 | LF | | | \$ 0.25 | \$ - | \$ - | \$ 66,053 | \$ 66,053 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
|--|---|--------------------|--------------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 2.20 | PVMT, ASPHALT, 2" SURFACE COURSE | 16,481 | SY | \$ 14.00 | \$ 14.00 | \$ 7.00 | \$ 230,729 | \$ 230,729 | \$ 115,364 | \$ 576,822 |
| 2.21 | PVMT, AGGREGATE, 10", BASE COURSE | 4,578 | CY | \$ 22.38 | \$ 23.50 | \$ 10.07 | \$ 102,455 | \$ 107,577 | \$ 46,105 | \$ 256,136 |
| 2.22 | Concrete Ductbank Thermal Resistivity Testing (every 100CY of concrete poured) | 71 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ 28,264 | \$ 84,791 | \$ 113,055 |
| 2.23 | Concrete Ductbank Compressive Strength Testing (every 100CY of concrete poured) | 71 | EA | | \$ 10 | \$ 15 | \$ - | \$ 707 | \$ 1,060 | \$ 1,766 |
| 2.24 | Backfill Thermal Resistivity Testing (every 100CY of backfill placed) | 152 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ 60,710 | \$ 182,130 | \$ 242,840 |
| 2.25 | Additional misc. testing allowance (Native Backfill, Asphalt Density, Concrete Curb etc.) | 1 | LS | | \$ 448,266 | \$ 298,844 | \$ - | \$ 448,266 | \$ 298,844 | \$ 747,110 |
| 2.26 | Excess Materials Disposal to Certified Backfill | 40,572 | CY | | \$ 24.5 | \$ 10.5 | \$ - | \$ 994,013 | \$ 426,006 | \$ 1,420,019 |
| 2.27 | Rock Excavation and Removal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.28 | Dewatering | 24 | EA | | | \$ 4,000 | \$ - | \$ - | \$ 96,000 | \$ 96,000 |
| 2.29 | Contaminated Water Treatment and Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.30 | Contaminated Spoils Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Excavated material - stockpile management | 32,195 | CF | | \$ 1.0 | \$ 0.5 | \$ - | \$ 32,195 | \$ 16,097 | \$ 48,292 |
| TOTAL - ONSHORE CABLE CONDUITS & VAULTS INSTALLATION: | | | | | | | \$ 14,119,503 | \$ 11,092,018 | \$ 6,785,369 | \$ 31,996,890 |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | | | | |
| 3.1 | Circuit #1- Procurement & Installation- 138kV 5000 kcmil copper XLPE | 138,711 | FT | \$ 145 | \$ 87 | \$ 58 | \$ 20,113,078 | \$ 12,067,847 | \$ 8,045,231 | \$ 40,226,155 |
| 3.2 | Circuit #1- Cable Splicing- 138kV 5000 kcmil copper XLPE | 72 | EA | \$ 5,898 | \$ 9,846 | \$ 2,813 | \$ 424,656 | \$ 708,947 | \$ 202,556 | \$ 1,336,159 |
| 3.3 | Circuit #1- Cable Termination- 138kV 5000 kcmil copper XLPE | 6 | EA | \$ 5,664 | \$ 9,846 | \$ 2,813 | \$ 33,984 | \$ 59,079 | \$ 16,880 | \$ 109,943 |
| 3.4 | Circuit #2- Procurement & Installation- 138kV 5000 kcmil copper XLPE | | FT | \$ 145 | \$ 87 | \$ 58 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | Circuit #2- Cable Splicing- 138kV 5000 kcmil copper XLPE | | EA | \$ 5,898 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | Circuit #2- Cable Termination- 138kV 5000 kcmil copper XLPE | | EA | \$ 5,664 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | Circuit #3- Procurement & Installation- 138kV 5000 kcmil copper XLPE | | FT | \$ 145 | \$ 87 | \$ 58 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | Circuit #3- Cable Splicing- 138kV 5000 kcmil copper XLPE | | EA | \$ 5,898 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | Circuit #3- Cable Termination- 138kV 5000 kcmil copper XLPE | | EA | \$ 5,664 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | Link Box & MH racking | 24 | EA | \$ 26,659 | \$ 15,995 | \$ 10,664 | \$ 639,816 | \$ 383,890 | \$ 255,926 | \$ 1,279,632 |
| 3.11 | Fiber Optic Cable | 46,237 | FT | \$ 7 | \$ 3 | \$ 2 | \$ 342,015 | \$ 153,997 | \$ 102,665 | \$ 598,676 |
| 3.12 | Ground Continuity Conductor | 46,237 | FT | \$ 13 | \$ 8 | \$ 5 | \$ 602,884 | \$ 348,026 | \$ 232,017 | \$ 1,182,926 |
| TOTAL - ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | \$ 22,156,432 | \$ 13,721,784 | \$ 8,855,275 | \$ 44,733,491 |
| Comp 4 - Dunwoodie To New Rochelle Landing 345kV Onshore UG Cables -single circuit(EGC To Dunwoodie 345 kV) | | | | | | | \$ 38,346,592 | \$ 35,001,236 | \$ 19,719,466 | \$ 93,067,293 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 4.1 | Mob / Demob | 1 | LS | | \$ 1,641,621 | \$ 1,094,414 | \$ - | \$ 1,641,621 | \$ 1,094,414 | \$ 2,736,035 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 4.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 930,672.93 | | \$ - | \$ 930,673 | \$ - | \$ 930,673 |
| 4.3 | Construction Project Management / Supervision | 1 | LS | | 3,722,691.74 | | \$ - | \$ 3,722,692 | \$ - | \$ 3,722,692 |
| 4.4 | Utility PM and Project Oversight | 1 | LS | | 930,672.93 | | \$ - | \$ 930,673 | \$ - | \$ 930,673 |
| 4.5 | Site Accommodation, Facilities, Storage | 1 | LS | 930,672.93 | | | \$ 930,673 | \$ - | \$ - | \$ 930,673 |
| | Engineering | | | | | | | | | |
| 4.6 | Design Engineering | 1.0 | LS | | \$ 4,653,365 | \$ - | \$ - | \$ 4,653,365 | \$ - | \$ 4,653,365 |
| 4.7 | LiDAR /GPR | 1.0 | LS | | \$ 167,521 | \$ 111,681 | \$ - | \$ 167,521 | \$ 111,681 | \$ 279,202 |
| 4.8 | Geotech | 9.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 24,570 | \$ 16,380 | \$ 40,950 |
| 4.9 | Surveying/Staking | 1 | LS | | \$ 390,883 | \$ 260,588 | \$ - | \$ 390,883 | \$ 260,588 | \$ 651,471 |
| | Testing & Commissioning | | | | | | | | | |
| 4.10 | Testing & Commissioning of T-Line and Equipment | 1 | EA | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| | Permitting, Indirects and Additional Costs | | | | | | | | | |
| 4.11 | Environmental Licensing & Permitting Costs & related legal cost | 1 | LS | | \$ 930,673 | | \$ - | \$ 930,673 | \$ - | \$ 930,673 |
| 4.12 | Environmental-special studies/investigation | | LS | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| 4.13 | Warranties / LOC's | 1 | LS | | \$ 279,202 | | \$ - | \$ 279,202 | \$ - | \$ 279,202 |
| 4.14 | Laydown Lease & temporary easement | 1 | LS | | \$ 1,000,000 | | \$ - | \$ 1,000,000 | \$ - | \$ 1,000,000 |
| 4.15 | Real Estate (Acquisition) | 1 | LS | | | \$ 34,478 | \$ - | \$ - | \$ 34,478 | \$ 34,478 |
| 4.16 | Legal Fees (Real estate) | 1.00 | LS | | - | 1,034.34 | \$ - | \$ - | \$ 1,034 | \$ 1,034 |
| 4.17 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Insurance (specialty, e.g. railroad) | | Crossing | | | \$ 1,000 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Bonds | 1 | LS | | | \$ 3,300,000 | \$ - | \$ - | \$ 3,300,000 | \$ 3,300,000 |
| 4.20 | Sales Tax on Materials | 8.88% | % of material cost | \$ 38,346,591.60 | | | \$ 3,405,177 | \$ - | \$ - | \$ 3,405,177 |
| 4.21 | Fees for permits, including roadway, railroad, building or other local permits | 1 | LS | | | \$ 93,067 | \$ - | \$ - | \$ 93,067 | \$ 93,067 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 4,335,850 | \$ 14,671,872 | \$ 4,911,643 | \$ 23,919,365 |

NEXtera Energy- TO41 Core 6

Comp 13A - Syosset - Oakwood 138 kV Onshore UG Cables -Single circuit

Total: \$ 25,498,312

| NEXtera Energy- TO41 Core 6 | | | | |
|---|------------------|------------------|------------------|------------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| Comp 13A - Syosset - Oakwood 138 kV Onshore UG Cables -Single circuit | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | \$ 64,000 | \$ 424,000 | \$ 119,200 | \$ 607,200 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | \$ - | \$ - | \$ - | \$ - |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | \$ 6,641,033 | \$ 4,155,419 | \$ 2,657,748 | \$ 13,454,200 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 736,021 | \$ 2,509,301 | \$ 700,561 | \$ 3,945,883 |
| SUBTOTAL (Costs): | \$ 7,441,054 | \$ 7,088,720 | \$ 3,477,509 | \$ 18,007,283 |
| CONTRACTOR MARK-UP (OH&P) | \$ 1,339,390 | \$ 1,275,970 | \$ 625,952 | \$ 3,241,311 |
| SUBTOTAL: | \$ 8,780,444 | \$ 8,364,689 | \$ 4,103,460 | \$ 21,248,594 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 1,756,089 | \$ 1,672,938 | \$ 820,692 | \$ 4,249,719 |
| TOTAL: | \$ 10,536,533 | \$ 10,037,627 | \$ 4,924,152 | \$ 25,498,312 |

| Description of Work: Replace existing 2.6 miles of UG cable, single cable per phase. | | | | | | | | | | |
|--|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|-----------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
| Comp 13A - Syosset - Oakwood 138 kV Onshore UG Cables -Single circuit | | | | | | | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | | | | | | | | | | |
| 1.1 | Environmental BMPs / SWPPP Installation, Maintenance & Repairs | 0 | LF | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 1.2 | Existing Utility Conflict and Relocation | 2.60 | Mile | | | | \$ - | \$ - | \$ - | \$ - |
| 1.3 | Flaggers | 40 | DAY | \$ 1,600 | \$ 4,800 | \$ 1,600 | \$ 64,000 | \$ 192,000 | \$ 64,000 | \$ 320,000 |
| 1.4 | K Rail / Lane Control / Metal Plates | 0 | LF | \$ 30 | \$ 18 | \$ 12 | \$ - | \$ - | \$ - | \$ - |
| 1.5 | Police Support | 1,600.0 | HR | | \$ 120 | \$ 27 | \$ - | \$ 192,000 | \$ 43,200 | \$ 235,200 |
| 1.6 | Additional Traffic Management | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Access / Clearing Costs | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.8 | Snow Removal | 40.0 | DAY | | \$ 1,000 | \$ 300 | \$ - | \$ 40,000 | \$ 12,000 | \$ 52,000 |
| 1.9 | Existing Utility Protection | - | Mile | \$ 40,000 | \$ 120,000 | \$ 40,000 | \$ - | \$ - | \$ - | \$ - |
| TOTAL - SITE PREP/ACCESS/TRAFFIC MANAGEMENT/ ACCESS: | | | | | | | \$ 64,000 | \$ 424,000 | \$ 119,200 | \$ 607,200 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | | | | | | | | | | |
| 2.1 | Trench Box Shoring & Trench Box Install Crew | | Miles | | \$ 139,800 | \$ 93,200 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | Formwork in Trench | | SF | \$ 2 | \$ 1.5 | \$ 0.5 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | Trench Excavation | | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ - | \$ - | \$ - |
| 2.4 | Supply & Install 6" Sand Bedding for direct bury conduits | | SF | \$ 50 | \$ 25 | \$ 14 | \$ - | \$ - | \$ - | \$ - |
| 2.5 | Supply & Install Thermal Backfill | | CY | \$ 350 | \$ 245 | \$ 105 | \$ - | \$ - | \$ - | \$ - |
| 2.6 | Supply & Install Concrete Cap (6") | | CY | \$ 200 | \$ 125 | \$ 50 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | Native Backfill -direct bury conduits sys Trench | | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | Supply & Install Ductbank Concrete | | CY | \$ 200 | \$ 125 | \$ 50 | \$ - | \$ - | \$ - | \$ - |
| 2.9 | Conduit 8" SCH 40PVC | | LF | \$ 28.6 | \$ 5.7 | \$ 2.4 | \$ - | \$ - | \$ - | \$ - |
| 2.10 | Conduit 4" SCH 40PVC | | LF | \$ 9.8 | \$ 4.20 | \$ 1.8 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | Conduit 2" SCH 40PVC | | LF | \$ 3.5 | \$ 3.15 | \$ 1.4 | \$ - | \$ - | \$ - | \$ - |
| 2.12 | Warning Tape | | LF | \$ 0.15 | \$ 0.25 | \$ 0.10 | \$ - | \$ - | \$ - | \$ - |
| 2.13 | Trench Box Shoring (Vault) | | EA | \$ - | \$ 18,079 | \$ 27,119 | \$ - | \$ - | \$ - | \$ - |
| 2.14 | Splice Vault Excavation | 0 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ - | \$ - | \$ - |
| 2.15 | Splice Vault Supply & Installation | 0 | EA | \$ 35,000 | \$ 16,500 | \$ 38,500 | \$ - | \$ - | \$ - | \$ - |
| 2.16 | Splice Vault Backfill | 0 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ - | \$ - | \$ - |
| 2.17 | Jack and Bore along Route | | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
|---|---|--------------------|--------------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 2.18 | HDD along Route | 0 | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | Air Test Ducts | 0 | LF | | | \$ 0.25 | \$ - | \$ - | \$ - | \$ - |
| 2.20 | PVMT, ASPHALT, 2" SURFACE COURSE | 0 | SY | \$ 14.00 | \$ 14.00 | \$ 7.00 | \$ - | \$ - | \$ - | \$ - |
| 2.21 | PVMT, AGGREGATE, 10", BASE COURSE | 0 | CY | \$ 22.38 | \$ 23.50 | \$ 10.07 | \$ - | \$ - | \$ - | \$ - |
| 2.22 | Concrete Ductbank Thermal Resistivity Testing (every 100CY of concrete poured) | 0 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ - | \$ - | \$ - |
| 2.23 | Concrete Ductbank Compressive Strength Testing (every 100CY of concrete poured) | 0 | EA | | \$ 10 | \$ 15 | \$ - | \$ - | \$ - | \$ - |
| 2.24 | Backfill Thermal Resistivity Testing (every 100CY of backfill placed) | 0 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ - | \$ - | \$ - |
| 2.25 | Additional misc. testing allowance (Native Backfill, Asphalt Density, Concrete Curb etc.) | | LS | | \$ 448,266 | \$ 298,844 | \$ - | \$ - | \$ - | \$ - |
| 2.26 | Excess Materials Disposal to Certified Backfill | 0 | CY | | \$ 24.5 | \$ 10.5 | \$ - | \$ - | \$ - | \$ - |
| 2.27 | Rock Excavation and Removal | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.28 | Dewatering | | EA | | | \$ 4,000 | \$ - | \$ - | \$ - | \$ - |
| 2.29 | Contaminated Water Treatment and Disposal | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.30 | Contaminated Spoils Disposal | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Excavated material - stockpile management | | CF | | \$ 1.0 | \$ 0.5 | \$ - | \$ - | \$ - | \$ - |
| TOTAL - ONSHORE CABLE CONDUITS & VAULTS INSTALLATION: | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | | | | |
| 3.1 | Circuit #1- Procurement & Installation- 138kV 5000 kcmil copper XLPE | 41,184 | FT | \$ 145 | \$ 87 | \$ 58 | \$ 5,971,680 | \$ 3,583,008 | \$ 2,388,672 | \$ 11,943,360 |
| 3.2 | Circuit #1- Cable Splicing- 138kV 5000 kcmil copper XLPE | 24 | EA | \$ 5,898 | \$ 9,846 | \$ 2,813 | \$ 141,552 | \$ 236,316 | \$ 67,519 | \$ 445,386 |
| 3.3 | Circuit #1- Cable Termination- 138kV 5000 kcmil copper XLPE | 6 | EA | \$ 5,664 | \$ 9,846 | \$ 2,813 | \$ 33,984 | \$ 59,079 | \$ 16,880 | \$ 109,943 |
| 3.4 | Circuit #2- Procurement & Installation- 138kV 5000 kcmil copper XLPE | | FT | \$ 145 | \$ 87 | \$ 58 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | Circuit #2- Cable Splicing- 138kV 5000 kcmil copper XLPE | | EA | \$ 5,898 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | Circuit #2- Cable Termination- 138kV 5000 kcmil copper XLPE | | EA | \$ 5,664 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | Circuit #3- Procurement & Installation- 138kV 5000 kcmil copper XLPE | | FT | \$ 145 | \$ 87 | \$ 58 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | Circuit #3- Cable Splicing- 138kV 5000 kcmil copper XLPE | | EA | \$ 5,898 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | Circuit #3- Cable Termination- 138kV 5000 kcmil copper XLPE | | EA | \$ 5,664 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | Link Box & MH racking | 8 | EA | \$ 26,659 | \$ 15,995 | \$ 10,664 | \$ 213,272 | \$ 127,963 | \$ 85,309 | \$ 426,544 |
| 3.11 | Fiber Optic Cable | 13,728 | FT | \$ 7 | \$ 3 | \$ 2 | \$ 101,546 | \$ 45,722 | \$ 30,482 | \$ 177,750 |
| 3.12 | Ground Continuity Conductor | 13,728 | FT | \$ 13 | \$ 8 | \$ 5 | \$ 178,999 | \$ 103,331 | \$ 68,887 | \$ 351,217 |
| TOTAL - ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | \$ 6,641,033 | \$ 4,155,419 | \$ 2,657,748 | \$ 13,454,200 |
| Comp 4 - Dunwoodie To New Rochelle Landing 345kV Onshore UG Cables -single circuit(EGC To Dunwoodie 345 kV) | | | | | | | \$ 6,705,033 | \$ 4,579,419 | \$ 2,776,948 | \$ 14,061,400 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 4.1 | Mob / Demob | 1 | LS | | \$ 220,691 | \$ 147,127 | \$ - | \$ 220,691 | \$ 147,127 | \$ 367,818 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 4.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 140,614.00 | | \$ - | \$ 140,614 | \$ - | \$ 140,614 |
| 4.3 | Construction Project Management / Supervision | 1 | LS | | 562,456.00 | | \$ - | \$ 562,456 | \$ - | \$ 562,456 |
| 4.4 | Utility PM and Project Oversight | 1 | LS | | 140,614.00 | | \$ - | \$ 140,614 | \$ - | \$ 140,614 |
| 4.5 | Site Accommodation, Facilities, Storage | 1 | LS | 140,614.00 | | | \$ 140,614 | \$ - | \$ - | \$ 140,614 |
| | Engineering | | | | | | | | | |
| 4.6 | Design Engineering | 1.0 | LS | | \$ 703,070 | \$ - | \$ - | \$ 703,070 | \$ - | \$ 703,070 |
| 4.7 | LiDAR /GPR | - | LS | | \$ 25,311 | \$ 16,874 | \$ - | \$ - | \$ - | \$ - |
| 4.8 | Geotech | - | EA | | 2,730.00 | 1,820.00 | \$ - | \$ - | \$ - | \$ - |
| 4.9 | Surveying/Staking | 1 | LS | | \$ 59,058 | \$ 39,372 | \$ - | \$ 59,058 | \$ 39,372 | \$ 98,430 |
| | Testing & Commissioning | | | | | | | | | |
| 4.10 | Testing & Commissioning of T-Line and Equipment | 1 | EA | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| | Permitting, Indirects and Additional Costs | | | | | | | | | |
| 4.11 | Environmental Licensing & Permitting Costs & related legal cost | 1 | LS | | \$ 140,614 | | \$ - | \$ 140,614 | \$ - | \$ 140,614 |
| 4.12 | Environmental-special studies/investigation | | LS | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| 4.13 | Warranties / LOC's | 1 | LS | | \$ 42,184 | | \$ - | \$ 42,184 | \$ - | \$ 42,184 |
| 4.14 | Laydown Lease & temporary easement | 1 | LS | | \$ 500,000 | | \$ - | \$ 500,000 | \$ - | \$ 500,000 |
| 4.15 | Real Estate (Acquisition) | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 4.16 | Legal Fees (Real estate) | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 4.17 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Insurance (specialty, e.g. railroad) | | Crossing | | | \$ 1,000 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Bonds | 1 | LS | | | \$ 500,000 | \$ - | \$ - | \$ 500,000 | \$ 500,000 |
| 4.20 | Sales Tax on Materials | 8.88% | % of material cost | \$ 6,705,033.41 | | | \$ 595,407 | \$ - | \$ - | \$ 595,407 |
| 4.21 | Fees for permits, including roadway, railroad, building or other local permits | 1 | LS | | | \$ 14,061 | \$ - | \$ - | \$ 14,061 | \$ 14,061 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 736,021 | \$ 2,509,301 | \$ 700,561 | \$ 3,945,883 |

NEXtera Energy- TO41 Core 6

Comp 13B - Syosset - Greenlawn 138 kV Onshore UG Cables -Single circuit

Total: \$ 25,498,312

| NEXtera Energy- TO41 Core 6 | | | | |
|---|-----------------|---------------|--------------|---------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| Comp 13B - Syosset - Greenlawn 138 kV Onshore UG Cables -Single circuit | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | \$ 64,000 | \$ 424,000 | \$ 119,200 | \$ 607,200 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | \$ - | \$ - | \$ - | \$ - |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | \$ 6,641,033 | \$ 4,155,419 | \$ 2,657,748 | \$ 13,454,200 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 736,021 | \$ 2,509,301 | \$ 700,561 | \$ 3,945,883 |
| SUBTOTAL (Costs): | \$ 7,441,054 | \$ 7,088,720 | \$ 3,477,509 | \$ 18,007,283 |
| CONTRACTOR MARK-UP (OH&P) | \$ 1,339,390 | \$ 1,275,970 | \$ 625,952 | \$ 3,241,311 |
| SUBTOTAL: | \$ 8,780,444 | \$ 8,364,689 | \$ 4,103,460 | \$ 21,248,594 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 1,756,089 | \$ 1,672,938 | \$ 820,692 | \$ 4,249,719 |
| TOTAL: | \$ 10,536,533 | \$ 10,037,627 | \$ 4,924,152 | \$ 25,498,312 |

| Description of Work: Replace existing 2.6 miles of UG cable, single cable per phase. | | | | | | | | | | |
|--|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
| Comp 13B - Syosset - Greenlawn 138 kV Onshore UG Cables -Single circuit | | | | | | | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | | | | | | | | | | |
| 1.1 | Environmental BMPs / SWPPP Installation, Maintenance & Repairs | 0 | LF | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 1.2 | Existing Utility Conflict and Relocation | 2.60 | Mile | | | | \$ - | \$ - | \$ - | \$ - |
| 1.3 | Flaggers | 40 | DAY | \$ 1,600 | \$ 4,800 | \$ 1,600 | \$ 64,000 | \$ 192,000 | \$ 64,000 | \$ 320,000 |
| 1.4 | K Rail / Lane Control / Metal Plates | 0 | LF | \$ 30 | \$ 18 | \$ 12 | \$ - | \$ - | \$ - | \$ - |
| 1.5 | Police Support | 1,600.0 | HR | | \$ 120 | \$ 27 | \$ - | \$ 192,000 | \$ 43,200 | \$ 235,200 |
| 1.6 | Additional Traffic Management | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Access / Clearing Costs | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.8 | Snow Removal | 40.0 | DAY | | \$ 1,000 | \$ 300 | \$ - | \$ 40,000 | \$ 12,000 | \$ 52,000 |
| 1.9 | Existing Utility Protection | - | Mile | \$ 40,000 | \$ 120,000 | \$ 40,000 | \$ - | \$ - | \$ - | \$ - |
| TOTAL - SITE PREP/ACCESS/TRAFFIC MANAGEMENT/ ACCESS: | | | | | | | \$ 64,000 | \$ 424,000 | \$ 119,200 | \$ 607,200 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | | | | | | | | | | |
| 2.1 | Trench Box Shoring & Trench Box Install Crew | | Miles | | \$ 139,800 | \$ 93,200 | \$ - | \$ - | \$ - | \$ - |
| 2.2 | Formwork in Trench | | SF | \$ 2 | \$ 1.5 | \$ 0.5 | \$ - | \$ - | \$ - | \$ - |
| 2.3 | Trench Excavation | | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ - | \$ - | \$ - |
| 2.4 | Supply & Install 6" Sand Bedding for direct bury conduits | | SF | \$ 50 | \$ 25 | \$ 14 | \$ - | \$ - | \$ - | \$ - |
| 2.5 | Supply & Install Thermal Backfill | | CY | \$ 350 | \$ 245 | \$ 105 | \$ - | \$ - | \$ - | \$ - |
| 2.6 | Supply & Install Concrete Cap (6") | | CY | \$ 200 | \$ 125 | \$ 50 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | Native Backfill -direct bury conduits sys Trench | | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | Supply & Install Ductbank Concrete | | CY | \$ 200 | \$ 125 | \$ 50 | \$ - | \$ - | \$ - | \$ - |
| 2.9 | Conduit 8" SCH 40PVC | | LF | \$ 28.6 | \$ 5.7 | \$ 2.4 | \$ - | \$ - | \$ - | \$ - |
| 2.10 | Conduit 4" SCH 40PVC | | LF | \$ 9.8 | \$ 4.20 | \$ 1.8 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | Conduit 2" SCH 40PVC | | LF | \$ 3.5 | \$ 3.15 | \$ 1.4 | \$ - | \$ - | \$ - | \$ - |
| 2.12 | Warning Tape | | LF | \$ 0.15 | \$ 0.25 | \$ 0.10 | \$ - | \$ - | \$ - | \$ - |
| 2.13 | Trench Box Shoring (Vault) | | EA | \$ - | \$ 18,079 | \$ 27,119 | \$ - | \$ - | \$ - | \$ - |
| 2.14 | Splice Vault Excavation | 0 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ - | \$ - | \$ - |
| 2.15 | Splice Vault Supply & Installation | 0 | EA | \$ 35,000 | \$ 16,500 | \$ 38,500 | \$ - | \$ - | \$ - | \$ - |
| 2.16 | Splice Vault Backfill | 0 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ - | \$ - | \$ - |
| 2.17 | Jack and Bore along Route | | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ - | \$ - | \$ - | \$ - |
| 2.18 | HDD along Route | 0 | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
|--|---|--------------------|--------------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| 2.19 | Air Test Ducts | 0 | LF | | | \$ 0.25 | \$ - | \$ - | \$ - | \$ - |
| 2.20 | PVMT, ASPHALT, 2" SURFACE COURSE | 0 | SY | \$ 14.00 | \$ 14.00 | \$ 7.00 | \$ - | \$ - | \$ - | \$ - |
| 2.21 | PVMT, AGGREGATE, 10", BASE COURSE | 0 | CY | \$ 22.38 | \$ 23.50 | \$ 10.07 | \$ - | \$ - | \$ - | \$ - |
| 2.22 | Concrete Ductbank Thermal Resistivity Testing (every 100CY of concrete poured) | 0 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ - | \$ - | \$ - |
| 2.23 | Concrete Ductbank Compressive Strength Testing (every 100CY of concrete poured) | 0 | EA | | \$ 10 | \$ 15 | \$ - | \$ - | \$ - | \$ - |
| 2.24 | Backfill Thermal Resistivity Testing (every 100CY of backfill placed) | 0 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ - | \$ - | \$ - |
| 2.25 | Additional misc. testing allowance (Native Backfill, Asphalt Density, Concrete Curb etc.) | | LS | | \$ 448,266 | \$ 298,844 | \$ - | \$ - | \$ - | \$ - |
| 2.26 | Excess Materials Disposal to Certified Backfill | 0 | CY | | \$ 24.5 | \$ 10.5 | \$ - | \$ - | \$ - | \$ - |
| 2.27 | Rock Excavation and Removal | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.28 | Dewatering | | EA | | | \$ 4,000 | \$ - | \$ - | \$ - | \$ - |
| 2.29 | Contaminated Water Treatment and Disposal | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.30 | Contaminated Spoils Disposal | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Excavated material - stockpile management | | CF | | \$ 1.0 | \$ 0.5 | \$ - | \$ - | \$ - | \$ - |
| TOTAL - ONSHORE CABLE CONDUITS & VAULTS INSTALLATION: | | | | | | | \$ - | \$ - | \$ - | \$ - |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | | | | |
| 3.1 | Circuit #1- Procurement & Installation- 138kV 5000 kcmil copper XLPE | 41,184 | FT | \$ 145 | \$ 87 | \$ 58 | \$ 5,971,680 | \$ 3,583,008 | \$ 2,388,672 | \$ 11,943,360 |
| 3.2 | Circuit #1- Cable Splicing- 138kV 5000 kcmil copper XLPE | 24 | EA | \$ 5,898 | \$ 9,846 | \$ 2,813 | \$ 141,552 | \$ 236,316 | \$ 67,519 | \$ 445,386 |
| 3.3 | Circuit #1- Cable Termination- 138kV 5000 kcmil copper XLPE | 6 | EA | \$ 5,664 | \$ 9,846 | \$ 2,813 | \$ 33,984 | \$ 59,079 | \$ 16,880 | \$ 109,943 |
| 3.4 | Circuit #2- Procurement & Installation- 138kV 5000 kcmil copper XLPE | | FT | \$ 145 | \$ 87 | \$ 58 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | Circuit #2- Cable Splicing- 138kV 5000 kcmil copper XLPE | | EA | \$ 5,898 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | Circuit #2- Cable Termination- 138kV 5000 kcmil copper XLPE | | EA | \$ 5,664 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | Circuit #3- Procurement & Installation- 138kV 5000 kcmil copper XLPE | | FT | \$ 145 | \$ 87 | \$ 58 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | Circuit #3- Cable Splicing- 138kV 5000 kcmil copper XLPE | | EA | \$ 5,898 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | Circuit #3- Cable Termination- 138kV 5000 kcmil copper XLPE | | EA | \$ 5,664 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | Link Box & MH racking | 8 | EA | \$ 26,659 | \$ 15,995 | \$ 10,664 | \$ 213,272 | \$ 127,963 | \$ 85,309 | \$ 426,544 |
| 3.11 | Fiber Optic Cable | 13,728 | FT | \$ 7 | \$ 3 | \$ 2 | \$ 101,546 | \$ 45,722 | \$ 30,482 | \$ 177,750 |
| 3.12 | Ground Continuity Conductor | 13,728 | FT | \$ 13 | \$ 8 | \$ 5 | \$ 178,999 | \$ 103,331 | \$ 68,887 | \$ 351,217 |
| TOTAL - ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | \$ 6,641,033 | \$ 4,155,419 | \$ 2,657,748 | \$ 13,454,200 |
| Comp 4 - Dunwoodie To New Rochelle Landing 345kV Onshore UG Cables -single circuit(EGC To Dunwoodie 345 kV) | | | | | | | \$ 6,705,033 | \$ 4,579,419 | \$ 2,776,948 | \$ 14,061,400 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 4.1 | Mob / Demob | 1 | LS | | \$ 220,691 | \$ 147,127 | \$ - | \$ 220,691 | \$ 147,127 | \$ 367,818 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 4.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 140,614.00 | | \$ - | \$ 140,614 | \$ - | \$ 140,614 |
| 4.3 | Construction Project Management / Supervision | 1 | LS | | 562,456.00 | | \$ - | \$ 562,456 | \$ - | \$ 562,456 |
| 4.4 | Utility PM and Project Oversight | 1 | LS | | 140,614.00 | | \$ - | \$ 140,614 | \$ - | \$ 140,614 |
| 4.5 | Site Accommodation, Facilities, Storage | 1 | LS | 140,614.00 | | | \$ 140,614 | \$ - | \$ - | \$ 140,614 |
| | Engineering | | | | | | | | | |
| 4.6 | Design Engineering | 1.0 | LS | | \$ 703,070 | \$ - | \$ - | \$ 703,070 | \$ - | \$ 703,070 |
| 4.7 | LiDAR /GPR | - | LS | | \$ 25,311 | \$ 16,874 | \$ - | \$ - | \$ - | \$ - |
| 4.8 | Geotech | - | EA | | 2,730.00 | 1,820.00 | \$ - | \$ - | \$ - | \$ - |
| 4.9 | Surveying/Staking | 1 | LS | | \$ 59,058 | \$ 39,372 | \$ - | \$ 59,058 | \$ 39,372 | \$ 98,430 |
| | Testing & Commissioning | | | | | | | | | |
| 4.10 | Testing & Commissioning of T-Line and Equipment | 1 | EA | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| | Permitting, Indirects and Additional Costs | | | | | | | | | |
| 4.11 | Environmental Licensing & Permitting Costs & related legal cost | 1 | LS | | \$ 140,614 | | \$ - | \$ 140,614 | \$ - | \$ 140,614 |
| 4.12 | Environmental-special studies/investigation | | LS | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| 4.13 | Warranties / LOC's | 1 | LS | | \$ 42,184 | | \$ - | \$ 42,184 | \$ - | \$ 42,184 |
| 4.14 | Laydown Lease & temporary easement | 1 | LS | | \$ 500,000 | | \$ - | \$ 500,000 | \$ - | \$ 500,000 |
| 4.15 | Real Estate (Acquisition) | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 4.16 | Legal Fees (Real estate) | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 4.17 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Insurance (specialty, e.g. railroad) | | Crossing | | | \$ 1,000 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Bonds | 1 | LS | | | \$ 500,000 | \$ - | \$ - | \$ 500,000 | \$ 500,000 |
| 4.20 | Sales Tax on Materials | 8.88% | % of material cost | \$ 6,705,033.41 | | | \$ 595,407 | \$ - | \$ - | \$ 595,407 |
| 4.21 | Fees for permits, including roadway, railroad, building or other local permits | 1 | LS | | | \$ 14,061 | \$ - | \$ - | \$ 14,061 | \$ 14,061 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 736,021 | \$ 2,509,301 | \$ 700,561 | \$ 3,945,883 |

NEXTera Energy- TO41 Core 6

Comp 113 - Jamaica to East Garden City 138 kV Onshore UG Cables -Single circuit

(EGC-Jamaica 138kv)

Total: \$ 232,454,478

| NEXTera Energy- TO41 Core 6 | | | | |
|--|-----------------|---------------|---------------|----------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| Comp 113 - Jamaica to East Garden City 138 kV Onshore UG Cables -Single circuit(EGC-Jamaica 138kv) | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | \$ 2,875,456 | \$ 14,141,314 | \$ 5,663,742 | \$ 22,680,512 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | \$ 19,840,547 | \$ 15,583,902 | \$ 9,822,382 | \$ 45,246,831 |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | \$ 30,983,420 | \$ 19,257,602 | \$ 12,388,277 | \$ 62,629,299 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 6,074,075 | \$ 20,680,283 | \$ 6,851,768 | \$ 33,606,126 |
| SUBTOTAL (Costs): | \$ 59,773,498 | \$ 69,663,101 | \$ 34,726,168 | \$ 164,162,767 |
| CONTRACTOR MARK-UP (OH&P) | \$ 10,759,230 | \$ 12,539,358 | \$ 6,250,710 | \$ 29,549,298 |
| SUBTOTAL: | \$ 70,532,728 | \$ 82,202,459 | \$ 40,976,879 | \$ 193,712,065 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 14,106,546 | \$ 16,440,492 | \$ 8,195,376 | \$ 38,742,413 |
| TOTAL: | \$ 84,639,274 | \$ 98,642,950 | \$ 49,172,254 | \$ 232,454,478 |

| Description of Work: Jamaica to East Garden City. 5000 kcmil copper XLPE (300/400/500 MVA), single cable per phase. (Double circuit for 138 and 345kv -11.08 miles and Single circuit for 138kv -0.51 miles) | | | | | | | | | | |
|--|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|---------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
| Comp 113 - Jamaica to East Garden City 138 kV Onshore UG Cables -Single circuit(EGC-Jamaica 138kv) | | | | | | | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | | | | | | | | | | |
| 1.1 | Environmental BMPs / SWPPP Installation, Maintenance & Repairs | 0 | LF | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 1.2 | Existing Utility Conflict and Relocation | 11.59 | Mile | | \$ 700,000 | \$ 300,000 | \$ - | \$ 8,113,000 | \$ 3,477,000 | \$ 11,590,000 |
| 1.3 | Flaggers | 360 | DAY | \$ 1,600 | \$ 4,800 | \$ 1,600 | \$ 576,000 | \$ 1,728,000 | \$ 576,000 | \$ 2,880,000 |
| 1.4 | K Rail / Lane Control / Metal Plates | 61,195 | LF | \$ 30 | \$ 18 | \$ 12 | \$ 1,835,856 | \$ 1,101,514 | \$ 734,342 | \$ 3,671,712 |
| 1.5 | Police Support | 14,400.0 | HR | | \$ 120 | \$ 27 | \$ - | \$ 1,728,000 | \$ 388,800 | \$ 2,116,800 |
| 1.6 | Additional Traffic Management | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Access / Clearing Costs | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.8 | Snow Removal | 80.0 | DAY | | \$ 1,000 | \$ 300 | \$ - | \$ 80,000 | \$ 24,000 | \$ 104,000 |
| 1.9 | Existing Utility Protection | 11.59 | Mile | \$ 40,000 | \$ 120,000 | \$ 40,000 | \$ 463,600 | \$ 1,390,800 | \$ 463,600 | \$ 2,318,000 |
| TOTAL - SITE PREP/ACCESS/TRAFFIC MANAGEMENT/ ACCESS: | | | | | | | \$ 2,875,456 | \$ 14,141,314 | \$ 5,663,742 | \$ 22,680,512 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | | | | | | | | | | |
| 2.1 | Trench Box Shoring & Trench Box Install Crew | 11.59 | Miles | | \$ 139,800 | \$ 93,200 | \$ - | \$ 1,620,282 | \$ 1,080,188 | \$ 2,700,470 |
| 2.2 | Formwork in Trench | 480,266 | SF | \$ 2 | \$ 1.5 | \$ 0.5 | \$ 960,531 | \$ 720,398 | \$ 240,133 | \$ 1,921,062 |
| 2.3 | Trench Excavation | 40,022 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ 700,387 | \$ 300,166 | \$ 1,000,553 |
| 2.4 | Supply & Install 6" Sand Bedding for direct bury conduits | 2,501 | SF | \$ 50 | \$ 25 | \$ 14 | \$ 125,069 | \$ 61,284 | \$ 35,019 | \$ 221,372 |
| 2.5 | Supply & Install Thermal Backfill | 21,012 | CY | \$ 350 | \$ 245 | \$ 105 | \$ 7,354,067 | \$ 5,147,847 | \$ 2,206,220 | \$ 14,708,134 |
| 2.6 | Supply & Install Concrete Cap (6") | 0 | CY | \$ 200 | \$ 125 | \$ 50 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | Native Backfill -direct bury conduits sys Trench | 0 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | Supply & Install Ductbank Concrete | 9,782 | CY | \$ 200 | \$ 125 | \$ 50 | \$ 1,956,415 | \$ 1,222,760 | \$ 489,104 | \$ 3,668,279 |
| 2.9 | Conduit 8" SCH 40PVC | 244,781 | LF | \$ 28.6 | \$ 5.7 | \$ 2.4 | \$ 7,000,731 | \$ 1,387,907 | \$ 594,817 | \$ 8,983,455 |
| 2.10 | Conduit 4" SCH 40PVC | 0 | LF | \$ 9.8 | \$ 4.20 | \$ 1.8 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | Conduit 2" SCH 40PVC | 122,390 | LF | \$ 3.5 | \$ 3.15 | \$ 1.4 | \$ 430,814 | \$ 385,530 | \$ 165,227 | \$ 981,571 |
| 2.12 | Warning Tape | 122,390 | LF | \$ 0.15 | \$ 0.25 | \$ 0.10 | \$ 18,359 | \$ 30,598 | \$ 12,239 | \$ 61,195 |
| 2.13 | Trench Box Shoring (Vault) | 38 | EA | \$ - | \$ 18,079 | \$ 27,119 | \$ - | \$ 687,006 | \$ 1,030,508 | \$ 1,717,514 |
| 2.14 | Splice Vault Excavation | 5,202 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ 91,031 | \$ 39,013 | \$ 130,044 |
| 2.15 | Splice Vault Supply & Installation | 38 | EA | \$ 35,000 | \$ 16,500 | \$ 38,500 | \$ 1,330,000 | \$ 627,000 | \$ 1,463,000 | \$ 3,420,000 |
| 2.16 | Splice Vault Backfill | 1,561 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ 21,847 | \$ 9,363 | \$ 31,211 |
| 2.17 | Jack and Bore along Route | 250 | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ 200,000 | \$ 400,000 | \$ 400,000 | \$ 1,000,000 |
| 2.18 | HDD along Route | 0 | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | Air Test Ducts | 367,171 | LF | | | \$ 0.25 | \$ - | \$ - | \$ 91,793 | \$ 91,793 |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
|---|---|--------------------|--------------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|----------------|
| 2.20 | PVMT, ASPHALT, 2" SURFACE COURSE | 22,979 | SY | \$ 14.00 | \$ 14.00 | \$ 7.00 | \$ 321,707 | \$ 321,707 | \$ 160,854 | \$ 804,269 |
| 2.21 | PVMT, AGGREGATE, 10", BASE COURSE | 6,383 | CY | \$ 22.38 | \$ 23.50 | \$ 10.07 | \$ 142,853 | \$ 149,996 | \$ 64,284 | \$ 357,134 |
| 2.22 | Concrete Ductbank Thermal Resistivity Testing (every 100CY of concrete poured) | 98 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ 39,128 | \$ 117,385 | \$ 156,513 |
| 2.23 | Concrete Ductbank Compressive Strength Testing (every 100CY of concrete poured) | 98 | EA | | \$ 10 | \$ 15 | \$ - | \$ 978 | \$ 1,467 | \$ 2,446 |
| 2.24 | Backfill Thermal Resistivity Testing (every 100CY of backfill placed) | 210 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ 84,046 | \$ 252,139 | \$ 336,186 |
| 2.25 | Additional misc. testing allowance (Native Backfill, Asphalt Density, Concrete Curb etc.) | 1 | LS | | \$ 448,266 | \$ 298,844 | \$ - | \$ 448,266 | \$ 298,844 | \$ 747,110 |
| 2.26 | Excess Materials Disposal to Certified Backfill | 56,762 | CY | | \$ 24.5 | \$ 10.5 | \$ - | \$ 1,390,679 | \$ 596,005 | \$ 1,986,684 |
| 2.27 | Rock Excavation and Removal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.28 | Dewatering | 38 | EA | | | \$ 4,000 | \$ - | \$ - | \$ 152,000 | \$ 152,000 |
| 2.29 | Contaminated Water Treatment and Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.30 | Contaminated Spoils Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Excavated material - stockpile management | 45,224 | CF | | \$ 1.0 | \$ 0.5 | \$ - | \$ 45,224 | \$ 22,612 | \$ 67,836 |
| TOTAL - ONSHORE CABLE CONDUITS & VAULTS INSTALLATION: | | | | | | | \$ 19,840,547 | \$ 15,583,902 | \$ 9,822,382 | \$ 45,246,831 |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | | | | |
| 3.1 | Circuit #1- Procurement & Installation- 138kV 5000 kcmil copper XLPE | 192,765 | FT | \$ 145 | \$ 87 | \$ 58 | \$ 27,950,908 | \$ 16,770,545 | \$ 11,180,363 | \$ 55,901,815 |
| 3.2 | Circuit #1- Cable Splicing- 138kV 5000 kcmil copper XLPE | 114 | EA | \$ 5,898 | \$ 9,846 | \$ 2,813 | \$ 672,372 | \$ 1,122,499 | \$ 320,714 | \$ 2,115,585 |
| 3.3 | Circuit #1- Cable Termination- 138kV 5000 kcmil copper XLPE | 6 | EA | \$ 5,664 | \$ 9,846 | \$ 2,813 | \$ 33,984 | \$ 59,079 | \$ 16,880 | \$ 109,943 |
| 3.4 | Circuit #2- Procurement & Installation- 138kV 5000 kcmil copper XLPE | | FT | \$ 145 | \$ 87 | \$ 58 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | Circuit #2- Cable Splicing- 138kV 5000 kcmil copper XLPE | | EA | \$ 5,898 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | Circuit #2- Cable Termination- 138kV 5000 kcmil copper XLPE | | EA | \$ 5,664 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | Circuit #3- Procurement & Installation- 138kV 5000 kcmil copper XLPE | | FT | \$ 145 | \$ 87 | \$ 58 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | Circuit #3- Cable Splicing- 138kV 5000 kcmil copper XLPE | | EA | \$ 5,898 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | Circuit #3- Cable Termination- 138kV 5000 kcmil copper XLPE | | EA | \$ 5,664 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | Link Box & MH racking | 38 | EA | \$ 26,659 | \$ 15,995 | \$ 10,664 | \$ 1,013,042 | \$ 607,825 | \$ 405,217 | \$ 2,026,084 |
| 3.11 | Fiber Optic Cable | 64,255 | FT | \$ 7 | \$ 3 | \$ 2 | \$ 475,294 | \$ 214,008 | \$ 142,672 | \$ 831,973 |
| 3.12 | Ground Continuity Conductor | 64,255 | FT | \$ 13 | \$ 8 | \$ 5 | \$ 837,820 | \$ 483,647 | \$ 322,431 | \$ 1,643,899 |
| TOTAL - ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | \$ 30,983,420 | \$ 19,257,602 | \$ 12,388,277 | \$ 62,629,299 |
| Comp 4 - Dunwoodie To New Rochelle Landing 345kV Onshore UG Cables -single circuit(EGC To Dunwoodie 345 kV) | | | | | | | \$ 53,699,423 | \$ 48,982,817 | \$ 27,874,401 | \$ 130,556,641 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 4.1 | Mob / Demob | 1 | LS | | \$ 2,305,717 | \$ 1,537,144 | \$ - | \$ 2,305,717 | \$ 1,537,144 | \$ 3,842,861 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 4.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 1,305,566.41 | | \$ - | \$ 1,305,566 | \$ - | \$ 1,305,566 |
| 4.3 | Construction Project Management / Supervision | 1 | LS | | 5,222,265.65 | | \$ - | \$ 5,222,266 | \$ - | \$ 5,222,266 |
| 4.4 | Utility PM and Project Oversight | 1 | LS | | 1,305,566.41 | | \$ - | \$ 1,305,566 | \$ - | \$ 1,305,566 |
| 4.5 | Site Accommodation, Facilities, Storage | 1 | LS | 1,305,566.41 | | | \$ 1,305,566 | \$ - | \$ - | \$ 1,305,566 |
| | Engineering | | | | | | | | | |
| 4.6 | Design Engineering | 1.0 | LS | | \$ 6,527,832 | \$ - | \$ - | \$ 6,527,832 | \$ - | \$ 6,527,832 |
| 4.7 | LIDAR /GPR | 1.0 | LS | | \$ 235,002 | \$ 156,668 | \$ - | \$ 235,002 | \$ 156,668 | \$ 391,670 |
| 4.8 | Geotech | 12.00 | EA | | 2,730.00 | 1,820.00 | \$ - | \$ 32,760 | \$ 21,840 | \$ 54,600 |
| 4.9 | Surveying/Staking | 1 | LS | | \$ 548,338 | \$ 365,559 | \$ - | \$ 548,338 | \$ 365,559 | \$ 913,896 |
| | Testing & Commissioning | | | | | | | | | |
| 4.10 | Testing & Commissioning of T-Line and Equipment | 1 | EA | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| | Permitting, Indirects and Additional Costs | | | | | | | | | |
| 4.11 | Environmental Licensing & Permitting Costs & related legal cost | 1 | LS | | \$ 1,305,566 | | \$ - | \$ 1,305,566 | \$ - | \$ 1,305,566 |
| 4.12 | Environmental-special studies/investigation | | LS | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| 4.13 | Warranties / LOC's | 1 | LS | | \$ 391,670 | | \$ - | \$ 391,670 | \$ - | \$ 391,670 |
| 4.14 | Laydown Lease & temporary easement | 1 | LS | | \$ 1,500,000 | | \$ - | \$ 1,500,000 | \$ - | \$ 1,500,000 |
| 4.15 | Real Estate (Acquisition) | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 4.16 | Legal Fees (Real estate) | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 4.17 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Insurance (specialty, e.g. railroad) | | Crossing | | | \$ 1,000 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Bonds | 1 | LS | | | \$ 4,640,000 | \$ - | \$ - | \$ 4,640,000 | \$ 4,640,000 |
| 4.20 | Sales Tax on Materials | 8.88% | % of material cost | \$ 53,699,423.07 | | | \$ 4,768,509 | \$ - | \$ - | \$ 4,768,509 |
| 4.21 | Fees for permits, including roadway, railroad, building or other local permits | 1 | LS | | | \$ 130,557 | \$ - | \$ - | \$ 130,557 | \$ 130,557 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 6,074,075 | \$ 20,680,283 | \$ 6,851,768 | \$ 33,606,126 |

NEXTera Energy- TO41 Core 6

Comp XX - Ruland Road - Newbridge138 kV #3 (567 Line) Onshore UG Cables -Single circuit

Total: \$ 5,354,910

| NEXTera Energy- TO41 Core 6 | | | | |
|---|--------------------|--------------------|------------------|-------------------|
| | Material Supply | Labor Supply | Equip Supply | Total |
| Comp XX - Ruland Road - Newbridge138 kV #3 (567 Line) Onshore UG Cables -Single circuit | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | \$ 103,680 | \$ 467,008 | \$ 139,872 | \$ 710,560 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | \$ 350,497 | \$ 277,908 | \$ 192,142 | \$ 820,547 |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | \$ 516,796 | \$ 366,133 | \$ 210,329 | \$ 1,093,258 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | \$ 112,466 | \$ 890,875 | \$ 154,010 | \$ 1,157,351 |
| SUBTOTAL (Costs): | \$ 1,083,440 | \$ 2,001,924 | \$ 696,353 | \$ 3,781,716 |
| CONTRACTOR MARK-UP (OH&P) | \$ 195,019 | \$ 360,346 | \$ 125,343 | \$ 680,709 |
| SUBTOTAL: | \$ 1,278,459 | \$ 2,362,270 | \$ 821,696 | \$ 4,462,425 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 255,692 | \$ 472,454 | \$ 164,339 | \$ 892,485 |
| TOTAL: | \$ 1,534,151 | \$ 2,834,724 | \$ 986,035 | \$ 5,354,910 |

| Description of Work: Rebuild 0.2 mile of UG line (trench, conduits and cable), single cable per phase. | | | | | | | | | | |
|--|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|-----------------|
| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
| Comp XX - Ruland Road - Newbridge138 kV #3 (567 Line) Onshore UG Cables -Single circuit | | | | | | | | | | |
| 1. SITE PREP/ACCESS/TRAFFIC MANAGEMENT | | | | | | | | | | |
| 1.1 | Environmental BMPs / SWPPP Installation, Maintenance & Repairs | 0 | LF | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| 1.2 | Existing Utility Conflict and Relocation | 0.20 | Mile | | | | \$ - | \$ - | \$ - | \$ - |
| 1.3 | Flaggers | 40 | DAY | \$ 1,600 | \$ 4,800 | \$ 1,600 | \$ 64,000 | \$ 192,000 | \$ 64,000 | \$ 320,000 |
| 1.4 | K Rail / Lane Control / Metal Plates | 1,056 | LF | \$ 30 | \$ 18 | \$ 12 | \$ 31,680 | \$ 19,008 | \$ 12,672 | \$ 63,360 |
| 1.5 | Police Support | 1,600.0 | HR | | \$ 120 | \$ 27 | \$ - | \$ 192,000 | \$ 43,200 | \$ 235,200 |
| 1.6 | Additional Traffic Management | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.7 | Access / Clearing Costs | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 1.8 | Snow Removal | 40.0 | DAY | | \$ 1,000 | \$ 300 | \$ - | \$ 40,000 | \$ 12,000 | \$ 52,000 |
| 1.9 | Existing Utility Protection | 0.20 | Mile | \$ 40,000 | \$ 120,000 | \$ 40,000 | \$ 8,000 | \$ 24,000 | \$ 8,000 | \$ 40,000 |
| TOTAL - SITE PREP/ACCESS/TRAFFIC MANAGEMENT/ ACCESS: | | | | | | | \$ 103,680 | \$ 467,008 | \$ 139,872 | \$ 710,560 |
| 2. ONSHORE CABLE CONDUITS & VAULTS INSTALLATION | | | | | | | | | | |
| 2.1 | Trench Box Shoring & Trench Box Install Crew | 0.20 | Miles | | \$ 139,800 | \$ 93,200 | \$ - | \$ 27,960 | \$ 18,640 | \$ 46,600 |
| 2.2 | Formwork in Trench | 8,256 | SF | \$ 2 | \$ 1.5 | \$ 0.5 | \$ 16,512 | \$ 12,384 | \$ 4,128 | \$ 33,024 |
| 2.3 | Trench Excavation | 688 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ 12,040 | \$ 5,160 | \$ 17,200 |
| 2.4 | Supply & Install 6" Sand Bedding for direct bury conduits | 43 | SF | \$ 50 | \$ 25 | \$ 14 | \$ 2,150 | \$ 1,054 | \$ 602 | \$ 3,806 |
| 2.5 | Supply & Install Thermal Backfill | 361 | CY | \$ 350 | \$ 245 | \$ 105 | \$ 126,420 | \$ 88,494 | \$ 37,926 | \$ 252,840 |
| 2.6 | Supply & Install Concrete Cap (6") | 0 | CY | \$ 200 | \$ 125 | \$ 50 | \$ - | \$ - | \$ - | \$ - |
| 2.7 | Native Backfill -direct bury conduits sys Trench | 0 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ - | \$ - | \$ - |
| 2.8 | Supply & Install Ductbank Concrete | 168 | CY | \$ 200 | \$ 125 | \$ 50 | \$ 33,632 | \$ 21,020 | \$ 8,408 | \$ 63,060 |
| 2.9 | Conduit 8" SCH 40PVC | 4,224 | LF | \$ 28.6 | \$ 5.7 | \$ 2.4 | \$ 120,806 | \$ 23,950 | \$ 10,264 | \$ 155,021 |
| 2.10 | Conduit 4" SCH 40PVC | 0 | LF | \$ 9.8 | \$ 4.20 | \$ 1.8 | \$ - | \$ - | \$ - | \$ - |
| 2.11 | Conduit 2" SCH 40PVC | 2,112 | LF | \$ 3.5 | \$ 3.15 | \$ 1.4 | \$ 7,434 | \$ 6,653 | \$ 2,851 | \$ 16,938 |
| 2.12 | Warning Tape | 2,112 | LF | \$ 0.15 | \$ 0.25 | \$ 0.10 | \$ 317 | \$ 528 | \$ 211 | \$ 1,056 |
| 2.13 | Trench Box Shoring (Vault) | 1 | EA | \$ - | \$ 18,079 | \$ 27,119 | \$ - | \$ 18,079 | \$ 27,119 | \$ 45,198 |
| 2.14 | Splice Vault Excavation | 137 | CY | | \$ 17.5 | \$ 7.5 | \$ - | \$ 2,396 | \$ 1,027 | \$ 3,422 |
| 2.15 | Splice Vault Supply & Installation | 1 | EA | \$ 35,000 | \$ 16,500 | \$ 38,500 | \$ 35,000 | \$ 16,500 | \$ 38,500 | \$ 90,000 |
| 2.16 | Splice Vault Backfill | 41 | CY | | \$ 14.0 | \$ 6.0 | \$ - | \$ 575 | \$ 246 | \$ 821 |
| 2.17 | Jack and Bore along Route | 0 | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ - | \$ - | \$ - | \$ - |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
|---|---|--------------------|--------------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|--------------|
| 2.18 | HDD along Route | 0 | LF | \$ 800 | \$ 1,600 | \$ 1,600 | \$ - | \$ - | \$ - | \$ - |
| 2.19 | Air Test Ducts | 6,336 | LF | | | \$ 0.25 | \$ - | \$ - | \$ 1,584 | \$ 1,584 |
| 2.20 | PVMT, ASPHALT, 2" SURFACE COURSE | 407 | SY | \$ 14.00 | \$ 14.00 | \$ 7.00 | \$ 5,696 | \$ 5,696 | \$ 2,848 | \$ 14,241 |
| 2.21 | PVMT, AGGREGATE, 10", BASE COURSE | 113 | CY | \$ 22.38 | \$ 23.50 | \$ 10.07 | \$ 2,529 | \$ 2,656 | \$ 1,138 | \$ 6,324 |
| 2.22 | Concrete Ductbank Thermal Resistivity Testing (every 100CY of concrete poured) | 2 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ 673 | \$ 2,018 | \$ 2,691 |
| 2.23 | Concrete Ductbank Compressive Strength Testing (every 100CY of concrete poured) | 2 | EA | | \$ 10 | \$ 15 | \$ - | \$ 17 | \$ 25 | \$ 42 |
| 2.24 | Backfill Thermal Resistivity Testing (every 100CY of backfill placed) | 4 | EA | | \$ 400 | \$ 1,200 | \$ - | \$ 1,445 | \$ 4,334 | \$ 5,779 |
| 2.25 | Additional misc. testing allowance (Native Backfill, Asphalt Density, Concrete Curb etc.) | 1 | LS | | \$ 10,000 | \$ 10,000 | \$ - | \$ 10,000 | \$ 10,000 | \$ 20,000 |
| 2.26 | Excess Materials Disposal to Certified Backfill | 1,019 | CY | | \$ 24.5 | \$ 10.5 | \$ - | \$ 24,965 | \$ 10,699 | \$ 35,664 |
| 2.27 | Rock Excavation and Removal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.28 | Dewatering | 1 | EA | | | \$ 4,000 | \$ - | \$ - | \$ 4,000 | \$ 4,000 |
| 2.29 | Contaminated Water Treatment and Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.30 | Contaminated Spoils Disposal | 1 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 2.31 | Excavated material - stockpile management | 825 | CF | | \$ 1.0 | \$ 0.5 | \$ - | \$ 825 | \$ 412 | \$ 1,237 |
| TOTAL - ONSHORE CABLE CONDUITS & VAULTS INSTALLATION: | | | | | | | \$ 350,497 | \$ 277,908 | \$ 192,142 | \$ 820,547 |
| 3. ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | | | | |
| 3.1 | Circuit #1- Procurement & Installation- 138kV 5000 kcmil copper XLPE | 3,326 | FT | \$ 125 | \$ 75 | \$ 50 | \$ 415,800 | \$ 249,480 | \$ 166,320 | \$ 831,600 |
| 3.2 | Circuit #1- Cable Splicing- 138kV 5000 kcmil copper XLPE | 3 | EA | \$ 5,898 | \$ 9,846 | \$ 2,813 | \$ 17,694 | \$ 29,539 | \$ 8,440 | \$ 55,673 |
| 3.3 | Circuit #1- Cable Termination- 138kV 5000 kcmil copper XLPE | 6 | EA | \$ 5,664 | \$ 9,846 | \$ 2,813 | \$ 33,984 | \$ 59,079 | \$ 16,880 | \$ 109,943 |
| 3.4 | Circuit #2- Procurement & Installation- 138kV 5000 kcmil copper XLPE | | FT | \$ 125 | \$ 75 | \$ 50 | \$ - | \$ - | \$ - | \$ - |
| 3.5 | Circuit #2- Cable Splicing- 138kV 5000 kcmil copper XLPE | | EA | \$ 5,898 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.6 | Circuit #2- Cable Termination- 138kV 5000 kcmil copper XLPE | | EA | \$ 5,664 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.7 | Circuit #3- Procurement & Installation- 138kV 5000 kcmil copper XLPE | | FT | \$ 125 | \$ 75 | \$ 50 | \$ - | \$ - | \$ - | \$ - |
| 3.8 | Circuit #3- Cable Splicing- 138kV 5000 kcmil copper XLPE | | EA | \$ 5,898 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.9 | Circuit #3- Cable Termination- 138kV 5000 kcmil copper XLPE | | EA | \$ 5,664 | \$ 9,846 | \$ 2,813 | \$ - | \$ - | \$ - | \$ - |
| 3.10 | Link Box & MH racking | 1 | EA | \$ 26,659 | \$ 15,995 | \$ 10,664 | \$ 26,659 | \$ 15,995 | \$ 10,664 | \$ 53,318 |
| 3.11 | Fiber Optic Cable | 1,109 | FT | \$ 7 | \$ 3 | \$ 2 | \$ 8,202 | \$ 3,693 | \$ 2,462 | \$ 14,357 |
| 3.12 | Ground Continuity Conductor | 1,109 | FT | \$ 13 | \$ 8 | \$ 5 | \$ 14,458 | \$ 8,346 | \$ 5,564 | \$ 28,368 |
| TOTAL - ONSHORE CABLE PROCUREMENT AND INSTALLATION | | | | | | | \$ 516,796 | \$ 366,133 | \$ 210,329 | \$ 1,093,258 |
| Comp 4 - Dunwoodie To New Rochelle Landing 345kV Onshore UG Cables -single circuit(EGC To Dunwoodie 345 kV) | | | | | | | \$ 970,974 | \$ 1,111,049 | \$ 542,343 | \$ 2,624,365 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 4.1 | Mob / Demob | 1 | LS | | \$ 49,602 | \$ 33,068 | \$ - | \$ 49,602 | \$ 33,068 | \$ 82,670 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |
| 4.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 26,243.65 | | \$ - | \$ 26,244 | \$ - | \$ 26,244 |
| 4.3 | Construction Project Management / Supervision | 1 | LS | | 104,974.61 | | \$ - | \$ 104,975 | \$ - | \$ 104,975 |
| 4.4 | Utility PM and Project Oversight | 1 | LS | | 26,243.65 | | \$ - | \$ 26,244 | \$ - | \$ 26,244 |
| 4.5 | Site Accommodation, Facilities, Storage | 1 | LS | 26,243.65 | | | \$ 26,244 | \$ - | \$ - | \$ 26,244 |
| | Engineering | | | | | | | | | |
| 4.6 | Design Engineering | 1.0 | LS | | \$ 131,218 | \$ - | \$ - | \$ 131,218 | \$ - | \$ 131,218 |
| 4.7 | LiDAR /GPR | 1.0 | LS | | \$ 4,724 | \$ 3,149 | \$ - | \$ 4,724 | \$ 3,149 | \$ 7,873 |
| 4.8 | Geotech | 1.00 | EA | | 2,730 | 1,820 | \$ - | \$ 2,730 | \$ 1,820 | \$ 4,550 |
| 4.9 | Surveying/Staking | 1 | LS | | \$ 11,022 | \$ 7,348 | \$ - | \$ 11,022 | \$ 7,348 | \$ 18,371 |
| | Testing & Commissioning | | | | | | | | | |
| 4.10 | Testing & Commissioning of T-Line and Equipment | 1 | EA | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| | Permitting, Indirects and Additional Costs | | | | | | | | | |
| 4.11 | Environmental Licensing & Permitting Costs & related legal cost | 1 | LS | | \$ 26,244 | | \$ - | \$ 26,244 | \$ - | \$ 26,244 |
| 4.12 | Environmental-special studies/investigation | | LS | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| 4.13 | Warranties / LOC's | 1 | LS | | \$ 7,873 | | \$ - | \$ 7,873 | \$ - | \$ 7,873 |
| 4.14 | Laydown Lease & temporary easement | 1 | LS | | \$ 500,000 | | \$ - | \$ 500,000 | \$ - | \$ 500,000 |
| 4.15 | Real Estate (Acquisition) | | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 4.16 | Legal Fees (Real estate) | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 4.17 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Insurance (specialty, e.g. railroad) | | Crossing | | | \$ 1,000 | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Bonds | 1 | LS | | | \$ 106,000 | \$ - | \$ - | \$ 106,000 | \$ 106,000 |
| 4.20 | Sales Tax on Materials | 8.88% | % of material cost | \$ 970,973.55 | | | \$ 86,222 | \$ - | \$ - | \$ 86,222 |
| 4.21 | Fees for permits, including roadway, railroad, building or other local permits | 1 | LS | | | \$ 2,624 | \$ - | \$ - | \$ 2,624 | \$ 2,624 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 112,466 | \$ 890,875 | \$ 154,010 | \$ 1,157,351 |

NEXtera Energy- TO41 Core 6

Other Comp. 138kV Upgrades

Total: \$ 16,870,335

| | | | | |
|--|-----------------|--------------|--------------|---------------|
| Other Comp. 138kV Upgrades | | | | |
| | Material Supply | Labor Supply | Equip Supply | Total |
| Other Comp. 138kV Upgrades | | | | |
| 1. West Bus-Kings CT Upgrade | \$ 278,435 | \$ 158,049 | \$ 77,216 | \$ 513,700 |
| 2. Newbridge to Ruland 138kV (561Line OH reconductor)- Comp 97 | \$ 1,900,000 | \$ 950,000 | \$ 950,000 | \$ 3,800,000 |
| 3. Newbridge to Ruland 138kV (562Line OH reconductor)-Comp 98 | \$ 1,977,500 | \$ 988,750 | \$ 988,750 | \$ 3,955,000 |
| | \$ - | \$ - | \$ - | \$ - |
| | \$ - | \$ - | \$ - | \$ - |
| | \$ - | \$ - | \$ - | \$ - |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | \$ 451,734 | \$ 2,750,045 | \$ 443,599 | \$ 3,645,378 |
| CONTRACTOR MARK-UP (OH&P) | \$ 829,380 | \$ 872,432 | \$ 442,722 | \$ 2,144,534 |
| SUBTOTAL: | \$ 5,437,050 | \$ 5,719,276 | \$ 2,902,287 | \$ 14,058,612 |
| CONTINGENCY ON ENTIRE PROJECT | \$ 1,087,410 | \$ 1,143,855 | \$ 580,457 | \$ 2,811,722 |
| TOTAL: | \$ 6,524,459 | \$ 6,863,131 | \$ 3,482,744 | \$ 16,870,335 |

Description of Work: 5000KCMIL (Conductor size) (XLPE)armored cable buried below the Long Island Sound (buried 6' or protected by concrete mattresses or rock)

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
|--|---|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|-----------------|
| Other Comp. 138kV Upgrades | | | | | | | | | | |
| 1. West Bus-Kings CT Upgrade | | | | | | | | | | |
| 1.1 | CT Replacement | 12 | EA | \$ 18,000 | \$ 7,970 | \$ 3,416 | \$ 216,000 | \$ 95,641 | \$ 40,989 | \$ 352,630 |
| 1.2 | CT Replacement-foundation | 60 | CY | \$ 704 | \$ 804 | \$ 503 | \$ 42,233 | \$ 48,266 | \$ 30,167 | \$ 120,666 |
| 1.3 | CT Replacement-structure | 12 | EA | \$ 1,684 | \$ 1,178 | \$ 505 | \$ 20,202 | \$ 14,141 | \$ 6,061 | \$ 40,404 |
| | | | | | | | \$ - | from | \$ - | \$ - |
| TOTAL - West Bus-Kings-Pligrim CT Upgrade : | | | | | | | \$ 278,435 | \$ 158,049 | \$ 77,216 | \$ 513,700 |
| 2. Newbridge to Ruland 138kV (561Line OH reconductor)- Comp 97 | | | | | | | | | | |
| 2.1 | 138kV Line Upgrade | 7.600 | MI | \$ 250,000 | \$ 125,000 | \$ 125,000 | \$ 1,900,000 | \$ 950,000 | \$ 950,000 | \$ 3,800,000 |
| | | | | | | | \$ - | \$ - | \$ - | \$ - |
| TOTAL - Newbridge to Ruland 138kV (561Line OH reconductor) : | | | | | | | \$ 1,900,000 | \$ 950,000 | \$ 950,000 | \$ 3,800,000 |
| 3. Newbridge to Ruland 138kV (562Line OH reconductor)-Comp 98 | | | | | | | | | | |
| 3.1 | 138kV Line Upgrade | 7.910 | MI | \$ 250,000 | \$ 125,000 | \$ 125,000 | \$ 1,977,500 | \$ 988,750 | \$ 988,750 | \$ 3,955,000 |
| | | | | | | | \$ - | \$ - | \$ - | \$ - |
| TOTAL - Newbridge to Ruland 138kV (562Line OH reconductor) : | | | | | | | \$ 1,977,500 | \$ 988,750 | \$ 988,750 | \$ 3,955,000 |
| | | | | | | | | | | |
| | | | | | | | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | | | | |
| | | | | | | | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | \$ - | \$ - | \$ - | \$ - |
| | | | | | | | \$ - | \$ - | \$ - | \$ - |
| Other Comp. 138kV Upgrades | | | | | | | \$ 4,155,935.10 | \$ 2,096,798.80 | \$ 2,015,966.10 | \$ 8,268,700.00 |
| 4. MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | | | | |
| | Contractor Mobilization / Demobilization | | | | | | | | | |
| 4.1 | Mob / Demob | 1.0 | LS | | \$ 123,383 | \$ 82,255 | \$ - | \$ 123,383 | \$ 82,255 | \$ 205,638 |
| | Project Management, Material Handling & Amenities | | | | | | | | | |

| Item | Item Description | Estimated Quantity | Unit of Measure | Material Supply Rate | Labor Supply Rate | Const. Equipment Rate | Material Supply Cost | Labor Supply Cost | Const. Equipment Cost | TOTAL |
|--|--|--------------------|-----------------|----------------------|-------------------|-----------------------|----------------------|-------------------|-----------------------|--------------|
| 4.2 | Preconstruction Supervision (Engineering, Permitting, Procurement) | 1 | LS | | 82,687.00 | | \$ - | \$ 82,687 | \$ - | \$ 82,687 |
| 4.3 | Construction Project Management / Supervision | 1 | LS | | 330,748.00 | | \$ - | \$ 330,748 | \$ - | \$ 330,748 |
| 4.4 | Utility PM and Project Oversight | 1 | LS | | 82,687.00 | | \$ - | \$ 82,687 | \$ - | \$ 82,687 |
| 4.5 | Site Accommodation, Facilities, Storage | 1 | LS | 82,687.00 | | | \$ 82,687 | \$ - | \$ - | \$ 82,687 |
| | Engineering | | | | | | | | | |
| 4.6 | Design Engineering | 1.00 | LS | | \$ 413,435 | \$ - | \$ - | \$ 413,435 | \$ - | \$ 413,435 |
| 4.7 | LiDAR | 1.00 | LS | | \$ 14,884 | \$ 9,922 | \$ - | \$ 14,884 | \$ 9,922 | \$ 24,806 |
| 4.8 | Geotech | - | EA | | \$ 2,730 | \$ 1,820 | \$ - | \$ - | \$ - | \$ - |
| 4.9 | Surveying/Staking | 1.00 | Site | | \$ 34,729 | \$ 23,152 | \$ - | \$ 34,729 | \$ 23,152 | \$ 57,881 |
| | Testing & Commissioning | | | | | | | | | |
| 4.10 | Testing & Commissioning of SS and Equipment | 1.00 | LS | | \$ 60,000 | | \$ - | \$ 60,000 | \$ - | \$ 60,000 |
| | Permitting and Additional Costs | | | | | | | | | |
| 4.11 | Physical Security | - | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 4.12 | Environmental Licensing & Permitting Costs & related legal cost | 1.00 | LS | | \$ 82,687 | | \$ - | \$ 82,687 | \$ - | \$ 82,687 |
| 4.13 | Environmental-special studies/investigation | - | LS | | \$ - | | \$ - | \$ - | \$ - | \$ - |
| 4.14 | Warranties / LOC's | 1.00 | LS | | \$ 24,806 | | \$ - | \$ 24,806 | \$ - | \$ 24,806 |
| 4.15 | Laydown Lease & temporary easement | 1 | LS | | \$ 1,500,000 | | \$ - | \$ 1,500,000 | \$ - | \$ 1,500,000 |
| 4.16 | Real Estate (Acquisition) | 1.00 | LS | | | | \$ - | \$ - | \$ - | \$ - |
| 4.17 | Legal Fees (Real estate) | 1.00 | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 4.18 | Insurance | - | LS | | - | - | \$ - | \$ - | \$ - | \$ - |
| 4.19 | Insurance (specialty, e.g. railroad) | | Crossing | | | \$ 1,000 | \$ - | \$ - | \$ - | \$ - |
| 4.20 | Bonds | 1 | LS | | | \$ 320,000 | \$ - | \$ - | \$ 320,000 | \$ 320,000 |
| 4.21 | Sales Tax on Materials | 8.88% | LS | \$ 4,155,935.10 | | | \$ 369,047 | \$ - | \$ - | \$ 369,047 |
| 4.22 | Fees for permits, including roadway, railroad, building or other local permits | 1.00 | LS | | | \$ 8,269 | \$ - | \$ - | \$ 8,269 | \$ 8,269 |
| TOTAL - MOB/DEMOB, ENGINEERING, PERMITTING, T&C, PM & INDIRECTS: | | | | | | | \$ 451,734 | \$ 2,750,045 | \$ 443,599 | \$ 3,645,378 |

| NEXtera Energy- TO41 Core 6 | |
|---|--|
| ESTIMATE ASSUMPTIONS & CLARIFICATIONS | |
| General assumptions/clarifications | |
| 1 | This TO41 estimating workbook includes the substation and transmission line components listed in the sheet. |
| 2 | Based on 2022 pricing |
| 3 | The estimate contains 20% contingency amount. To cover unknow risk allowance. Costs include contractor mark-up (6%-trunkey cost (i.e. HVDC, GIS), 18%-others) for OH and profit |
| 4 | Costs have been developed based on historical data from Projects of a similar nature (AACE Class 5 and 4 Estimating Practices). Major equipment pricing is based on budgetary quotes from equipment suppliers. However, we have not engaged any subcontractors or material venders for formal quotes for minor materials." |
| 5 | Cost for dust control is excluded, we assume that water trucks for construction are not required. |
| 6 | Excavation currently excludes rock. More detail required to quantify rock, as well as construction means and methods allowed. Rock adder is approximately \$405/CY for standard rock excavation. |
| 7 | Work schedule assumes working 5 days per week, 10 hours per day. The construction durations for each segment are based on Attachment B.04.1 _Addendum Construction Schedule Revision 0. |
| 8 | Pricing assumes union labor will be required. |
| 9 | In indirect section, we assume that these construction contracts will be let on an EPC type basis (perhaps progressive design-build or similar contracting model) and that the construction contractor would have significant input into the pre-con planning stage. The project management staffing make up is based on the project scope and duration, for the substation interconnection/upgrade project only assume one construction manager and one environmental coordinator to meet EMCP requirement. |
| 10 | Costs will vary for handling and disposal of contaminated spoils, depending on type of contaminants and availability / location of the appropriate tippy facility. Since there is not enough information to provide a quantified estimate for this item, allowance is included in the contingency monies. |
| 11 | An allowance of 5% for transmission design and engineering is included in indirect section, cost of turnkey GIS and HVDC excluded |
| 12 | An allowance of 8% for substation design and engineering is included in indirect section, cost of turnkey GIS and HVDC excluded |
| 13 | An allowance of 0.3% for GPR of the transmission line is included in indirect section |
| 14 | An allowance of 0.7% for survey and staking of the tline and substation layout is included in indirect section, cost of turnkey GIS and HVDC excluded for substations. |
| 15 | An allowance of 3.75% for substation testing and commissioning is included in indirect section, cost of turnkey GIS and HVDC excluded |
| 16 | An allowance of \$20,000 per circuit for transmission line testing and commissioning is included in indirect section |
| 17 | An allowance of 1% for environmental Licensing & Permitting Costs & related legal cost is included in indirect section; and cost for environmental-special studies/investigation is quantified and included for required segment. Cost of turnkey GIS and HVDC excluded for substations. |
| 18 | The estimate does not include cost for insurance, assume it will be provided by he owner (i.e. OCIP) . The estimate includes cost for bond (2% of the total contracct value) |
| 19 | New York State sales tax of 8.8% is included for all material pricing |
| 20 | A mob of 3% and demob of 2% has been included per segment (percentage is based on construction labor and equipment costs), except submarine segment. |
| 21 | An allowance of 1% for Preconstruction Supervision (Engineering, Permitting, Procurement) is included in indirect section. |
| 22 | An allowance of 4% for Project Management & Staffing (includes PM, Field Engineers / Supervision, Scheduler and Cost Manager, SHEQ Staff, and Admin Staff) is included in indirect section. |
| 23 | An allowance of 1% for Utility PM and Project Oversight is included in indirect section. |
| 24 | An allowance of 1% for Site Accommodation, Facilities, Storage is included in indirect section. |
| 25 | An allowance of 3% of the real estate acquisition cost is included for real estate legal fees. |
| Tline assumptions/clarifications | |
| 26 | Assumed all UG conduits are installed with concrete encasement and no splicing point included inside substations. The conduit trench details please refer to each tab. |
| 27 | Not enough detail to quantify existing utility relocation. A plug of \$1M per mile has been included for relocation of existing utilities and \$200K / mile for protection of existing utilities. |
| 28 | Traffic control allows for k-rail, metal sheet plates and lane control for underground sections. We have not included for construction of new roads or any permanent traffic measures. |
| 29 | The trench excavation width and depth assumed details are shown in each tab. |
| 30 | The MH counts are based on our field and desktop review |
| 31 | Assumes that 30% of native spoils from vault excavation will be used as backfill. |
| 32 | Off haul / disposal spoils quantity includes a 1.3X multiplier for truck load. |
| 33 | Assumed asphalt paving repair includes a 2" surfacing course pavement |
| 34 | Additional 5% of route length is added to UG cable length, 10% of route length added to submarine cable length |
| 35 | All Tline segments construction period is based on milestone schedule provided |
| 36 | Spare conduit has been added to all UG conduit system |
| 37 | The HDD, jack&bore quantity is based on information provided by the developer. |
| 38 | Existing 138/345kv UG upgrade, assumed no work is required for existing conduit systems, the splice quantity is pending on when the existing splice vault quantity is provided. The 138KV UG conductor cost is based on 4000 kcmil XLPE cable. |
| 39 | Assume the cable trench in between transition manholes and transition station will be covered by submarine cable supplier/contractor |
| 40 | Please also refer to each tab for component specific assumptions and clarifications |
| 41 | Assume the cable trench in between transition manholes and transition station will be covered by submarine cable supplier/contractor |
| 42 | The submarine cable quantity and cost are calculated based on # of passes and the total cable length. We assume i.e 3 circuits, 2 cable per circuit, so there are 6 passes. |
| 43 | For transmission lines that are routed on the west side of the LI Sound (Bronx and Westchester County) assume 40% rock excavation. |
| Substation assumptions/clarifications - | |
| 44 | Site grading: Excavation quantity in substations is based on 3', fill quantity is based on 60% site borrow and 40% import. |
| 45 | Substation new access road access road quantity is based on interior access road only, no new exterior access roads are required based on the plot drawings provided. |
| 46 | Substation pad is based on 8" base and 6" surfacing rock. |
| 47 | If required, the firewalls for transformers/PAR/Reactors are assumed 30' tall. |
| 48 | All of the enclosure buildings are based on dimensions shown on the site plot plan, cost includes pre-engineered building structure, HVAC, mechanical, fire protection. |
| 49 | Substation quantity takeoff is based on the plot and one line drawings provided, takeoff assumptions details please see each tab |
| 50 | All substation segments construction period is based on milestone schedule provided |
| 51 | Assume concrete cantilever retaining wall for Sprain Brook expansion, the assumed dimension details please see the tab |
| 52 | Assume 70% rock for Sprain brook 345kV expansion excavation |
| 53 | Assume 90% rock for new Sprain brook HVDC yard excavation |