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### DOCKET NO. 20230042-EI

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March 31, 2023

### **VIA: ELECTRONIC FILING**

Adam Teitzman Commission Clerk Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, FL 32399-0850

> Petition of Tampa Electric Company for Approval of Revised Underground Re:

Residential Distribution Tariff

Dear Mr. Teitzman:

Attached for filing in the above-styled matter is Tampa Electric Company's Petition for Approval of Revised Tariffs for Underground Residential Distribution.

Thank you for your assistance in connection with this matter.

Sincerely,

Malcolm N. Means

Moldon N. Means

MNM/bml Attachment

**TECO Regulatory** cc:

Jordan Williams (jmwilliams@tecoenergy.com)

#### BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Petition of Tampa Electric Company	)	DOCKET	NO
for Approval of Revised Underground	)		
Residential Distribution Tariff	)	FILED:	March 31, 2023
	)		

### TAMPA ELECTRIC COMPANY'S PETITION FOR APPROVAL OF REVISED UNDERGROUND RESIDENTIAL DISTRIBUTION TARIFF

Tampa Electric Company ("Tampa Electric" or "the company"), pursuant to Rule 25-6.078(2), Florida Administrative Code, petitions the Florida Public Service Commission ("the Commission") to approve revisions to the company's tariff for installation of underground residential distribution facilities in new subdivisions. As grounds therefor, the company says:

1. The name, address, telephone number and facsimile number of the petitioner are:

Tampa Electric Company Post Office Box 111 Tampa, FL 33601 (813) 228-4111+9 (813) 228-1770 (fax)

- 2. Tampa Electric is a Florida corporation and a wholly owned subsidiary of TECO Energy, Inc., which is a wholly owned subsidiary of Emera Incorporated. The company is an investor-owned public utility operating under the jurisdiction of the Commission, pursuant to Chapter 366, Florida Statutes.
- 3. Tampa Electric provides retail service to over 810,000 customers in a 2,000 square mile service territory in Hillsborough and portions of Polk, Pasco, and Pinellas counties, Florida. Tampa Electric and its approximately 2,400 employees are focused on safety, providing cleaner and greener energy for its communities, and making it easier for its customers to do business with the company when and where they want.

- 4. This Petition represents an original pleading and is not filed in response to any proposed action by the Commission. Accordingly, the company is not responding to any proposed agency action.
- 5. All notices, pleadings and correspondence required to be served on the Petitioner should be directed to:

J. Jeffry Wahlen
jwahlen@ausley.com
Malcolm N. Means
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Virginia Ponder
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Ausley McMullen
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Paula Brown, Manager regdept@tecoenergy.com
Regulatory Coordination
Tampa Electric Company
Post Office Box 111
Tampa, FL 33602
(813) 228-1444
(813) 228-1770 (fax)

### **Ultimate Facts Alleged**

6. The ultimate facts that entitle Tampa Electric to the relief requested herein are the facts set forth in paragraphs 2-3 and in the paragraphs below:

#### Background – Rule 25-6.078, F.A.C.

- 7. Pursuant to Rule 25-6-078(1), F.A.C., each utility is required to file a written policy governing installation of underground facilities in new subdivisions with the Commission. This policy must include a calculation of the utility's "Estimated Average Cost Differential," or the difference in cost between an underground system and an equivalent overhead system. The policy must also set out the company's method for recovering this differential from customers requesting underground service.
- 8. Rule 25-6.078(2), F.A.C., provides that the Estimated Average Cost Differential calculation "shall reflect the requirements of Rule 25-6.030, F.A.C., Storm Protection Plan, Rule 25-6.034, F.A.C., Standard of Construction, Rule 25-6.0341, F.A.C., Location of the Utility's

Electric Distribution Facilities, and Rule 25-6.0345, F.A.C., Safety Standards for Construction of New Transmission and Distribution Facilities."

- 9. Rule 25-6.078(4), F.A.C., provides that the calculation of the Estimated Average Cost Differential must include differences in the "Net Present Value of operational costs, including average historical storm restoration costs over the life of the facilities," between overhead and underground facilities.
- 10. Rule 25-6.078(5), F.A.C. requires that the utility's policy must be accompanied by "[d]etailed supporting data and analyses used to determine the Estimated Average Cost Differential."
- 11. Upon approval by the Commission, the policy becomes part of the utility's tariff. *See* Rule 25-6.078(1), F.A.C.
- 12. Rule 25-6.078(3), F.A.C. requires each utility to file a standard form with the Commission on or before October 15 of each year that sets out the utility's current Estimated Average Cost Differential. This provision also states that, if the filed cost differential varies from the Commission-approved differential by plus or minus 10 percent or more, the utility must file a new written policy and supporting data on or before April 1 of the following year.

### Tampa Electric's Approved Differential Charge and Proposed Changes

- 13. Tampa Electric's current tariff provisions governing construction of underground distribution facilities for new subdivisions were approved by the Commission in Order No. PSC-2021-0462-TRF-EI, issued December 16, 2021 in Docket No. 20210064-EI. The current tariff shows an Estimated Average Cost Differential of \$370.29 per lot for low-density subdivisions and \$0.00 per lot in high-density subdivisions.
- 14. On October 14, 2022, Tampa Electric filed the annual report required by Rule 25-6.078(3) with the Commission. *See* DN 09345-2022, filed October 14, 2022 in Docket No.

- 20220000. This report showed that the company's then-current Estimated Average Cost Differential for low-density subdivisions was \$590.93, which is an increase of more than 10% over the Commission-approved low-density per-lot charge of \$370.29.
- 15. Based on this increase in the charge in excess of 10%, Tampa Electric hereby submits the attached revised tariff sheets and supporting analyses for Commission review and approval. Attached hereto, and incorporated herein by reference, are the following exhibits:
  - a. Exhibit A "Clean" Tariff Sheet Nos. 5.510, 5.515, 5.516
  - b. Exhibit B Legislative Format Tariff Sheet Nos. 5.510, 5.515, 5.516
  - c. Exhibit C Supporting Data and Analyses
- 16. The proposed charges contained in the proposed tariff sheets included in Exhibit A are based on current labor and material costs from the previous twelve-month period and are prepared in accordance with the requirements of Rules 25-6.064, 25-6.078, and 25-6.115, F.A.C..
- 17. The differential calculation contained in this filing, as set out in Exhibit C, reflects the requirements of Rules 25-6.030; 25-6.034; 25-6.0341; and 25-6.0345 as specified Rule 25-6.078(3), F.A.C.

#### Proposed Per Lot Charges for Low- and High-Density Subdivisions

- 18. The proposed differential charges in this filing are:
  - a. \$0.00 per lot for underground construction in low-density subdivisions.
  - b. \$0.00 per lot for underground construction in high-density subdivisions.
- 19. The proposed low-density lot charge listed above differs from the October 14, 2022 annual report filing because the company's latest calculation incorporates the costs charged to the storm reserve for Hurricane Ian. *See* Docket No. 20230019 (petition for storm surcharge).

#### **Proposed Charges for Underground Services from Overhead Distribution Sources**

- 20. For new single-phase underground services from overhead distribution sources, the proposed Fixed Charge, representing fixed labor and material costs that are not impacted by the variable service length, has increased from \$18.46 to \$36.61 for 2/0 underground service laterals and increased from \$92.54 to \$189.11 for 4/0 underground service laterals.
- 21. The proposed "Per Trench Foot" charges have increased from \$11.62 to \$18.44 per foot for 2/0 cable and from \$12.18 to \$19.49 for 4/0 cable.
- 22. The proposed credit for avoiding a service pole has increased from \$801.36 to \$963.79.

#### Proposed Changes for Conversion of Existing Overhead Services to Underground

- 23. For converted single phase underground services, the proposed overhead service removal charge has increased from \$205.08 to \$233.57 for service cable only and has increased from \$885.91 to \$997.13 when removal involves a service pole.
- 24. Tampa Electric is also proposing an updated non-refundable deposit charge for binding estimates for conversion of existing overhead distribution facilities to underground. Those charges, escalated by CPI over the two-year period since the last filing, increase from \$10,391.00 to \$11,742.00 per mile for the urban density class, from \$5,940.00 to \$6,712.00 per mile for the rural density class, and \$49.00 to \$55.00 per lot for the per lot subdivision class.

#### **Statement on Disputed Issues of Material Fact**

25. Tampa Electric is not aware of any disputed issues of material fact related to this petition, but acknowledges that they could arise during this proceeding.

WHEREFORE, Tampa Electric requests that this Commission approve the above-described tariff sheets, as set forth in Exhibit A to this petition, pursuant to Section 366.03, Florida Statutes.

DATED this 31st day of March, 2023.

Respectfully submitted,

J. JEFFRY WAHLEN

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MALCOLM N. MEANS

mmeans@ausley.com

VIRGINIA PONDER

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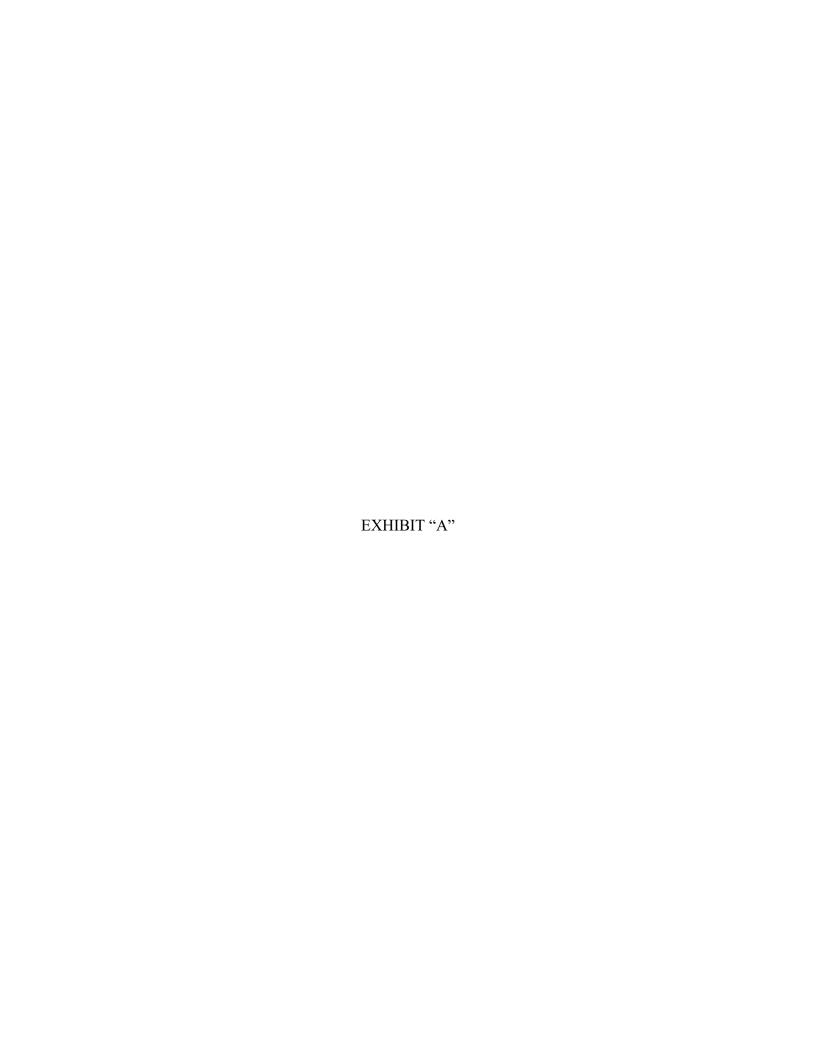
Ausley McMullen

Post Office Box 391

Tallahassee, FL 32302

(850) 224-9115

ATTORNEYS FOR TAMPA ELECTRIC COMPANY





# TWELFTH REVISED SHEET NO. 5.510 CANCELS ELEVENTH REVISED SHEET NO. 5.510

Continued from Sheet No. 5.500

#### 3.6.5.1 Single Meter Commercial Service

Mobile Home Parks will be supplied single-meter commercial service only where park owner or operator supplies (furnishes) electrical service as a part of his rental and/or general service charge to tenants. Resale of electric energy through park owned meters will not be permitted (See 2.2.1)

### 3.6.5.2 Individual Company Metered Service

Mobile Home Parks will be supplied through company installed individual meters for individual tenants and other types of service required in park under the provisions required on 3.4.3 and 3.4.4 and the subparts appertaining thereto.

### 3.6.6 Miscellaneous Types of Electric Service

Certain other types of electric service are available from the company. Information on such services not specifically covered in this Tariff may be obtained at the nearest company office. Such special cases will be given individual consideration.

# 3.7 SCHEDULE OF STANDARD CHARGES AND NON-REFUNDABLE DEPOSITS FOR COST ESTIMATES FOR UNDERGROUND ELECTRIC DISTRIBUTION SYSTEMS

### 3.7.1 Standard Charges

The Standard Charges listed here are Contributions In Aid of Construction (CIAC) which are referenced by other sections of these rules and regulations.

#### 3.7.1.1 Residential Subdivision

Low Density Subdivisions per service lateral or dwelling unit	\$0.00
High Density Subdivisions per service lateral or dwelling unit	\$0.00

# 3.7.1.2 New Single-phase UG Service Laterals from Overhead Distribution Systems

Fixed Charge for 2/0 service lateral Fixed Charge for 4/0 service lateral	\$36.61 \$189.11
Per trench foot charge for 2/0 service lateral Per trench foot charge for 4/0 service lateral	\$18.44 \$19.49
Credit for service pole if otherwise required for overhead service	\$963.79

Continued to Sheet No. 5.515

**ISSUED BY:** A. D. Collins, President **DATE EFFECTIVE:** 



# EIGHTEENTH REVISED SHEET NO. 5.515 CANCELS SEVENTEENTH REVISED SHEET NO. 5.515

	Continued from Sheet No. 5.510	
3.7.1.3	Single-phase UG Service Laterals Converted from Existing Overhead Service Drops	
	Removal charge for overhead service with no service pole	\$233.57
	Removal charge for overhead service with a service pole	\$997.13
	Fixed Charge for 2/0 service lateral Fixed Charge for 4/0 service lateral	\$ 36.61 \$ 189.11
	Per trench foot charge for 2/0 service lateral Per trench foot charge for 4/0 service lateral	\$ 18.44 \$ 19.49
	Credit for service pole if otherwise required for overhead service	\$963.79

Continued to Sheet No. 5.516

**ISSUED BY:** A. D. Collins, President **DATE EFFECTIVE:** 



# TWELFTH REVISED SHEET NO. 5.516 CANCELS ELEVENTH REVISED SHEET NO. 5.516

Continued from Sheet No. 5.515

# 3.7.2 Non-refundable Deposits for Estimates of CIAC for Conversion of Existing Overhead Distribution Facilities to Underground Facilities

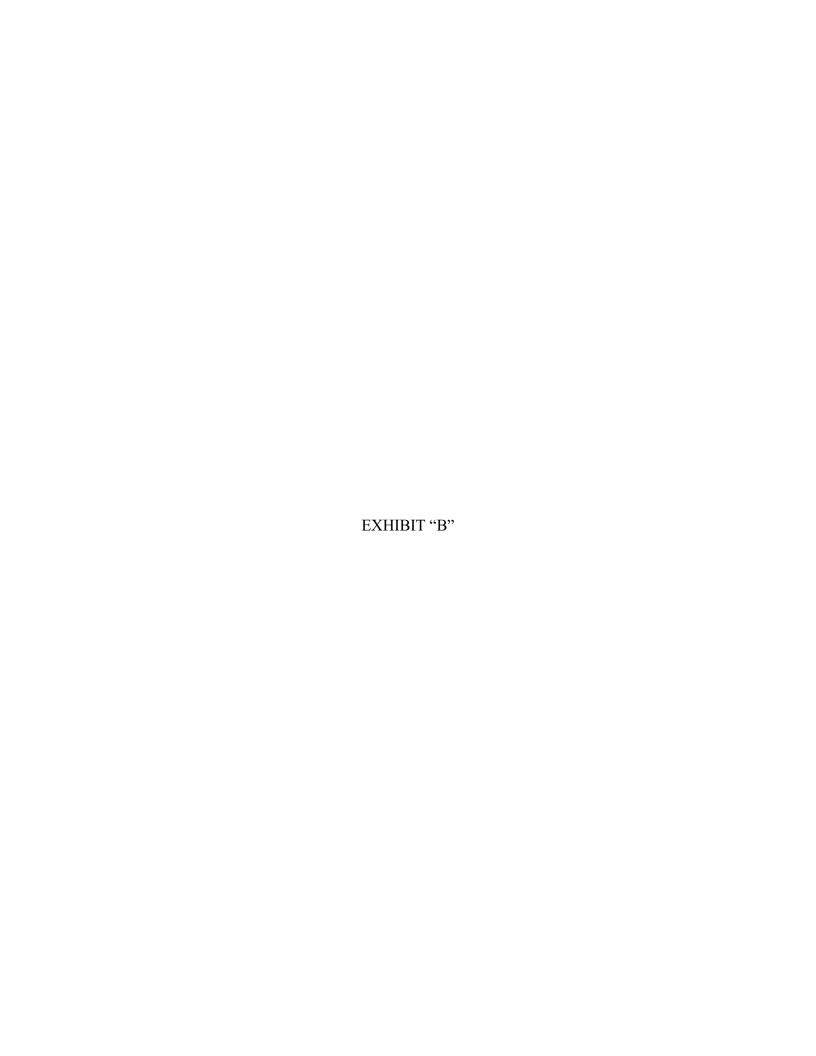
Qualified applicants can request, upon payment of a non-refundable deposit as listed below, the conversion of overhead distribution facilities to underground in accordance with these Rules and Regulations for conversion areas of not less than one (1) city block in length along both sides of the main distribution system, or in the absence of city blocks, not less than five (5) contiguous building lots along both sides of the main distribution system, or in the absence of both, not the less than 600 pole-feet of the main distribution system, including all customers served along both sides of the main distribution system, and so as to result in a decrease in the number of non-lighting poles in the system.

Requests for conversions, except for individual residential service covered under Section 3.4.3.3, will be accompanied by a non-refundable amount as follows:

Density Class	Deposit Amount
Urban Commercial or Residential	\$11,742 per mile*
Rural Commercial or Residential	\$ 6,712 per mile*
High or Low Density Subdivision	\$ 55 per lot

<sup>\*</sup> As measured along the existing overhead primary and secondary distribution system.

**ISSUED BY:** A. D. Collins, President **DATE EFFECTIVE:** 





# ELEVENTH TWELFTH REVISED SHEET NO. 5.510 CANCELS TENTH ELEVENTH REVISED SHEET NO. 5.510

Continued from Sheet No. 5.500

### 3.6.5.1 Single Meter Commercial Service

Mobile Home Parks will be supplied single-meter commercial service only where park owner or operator supplies (furnishes) electrical service as a part of his rental and/or general service charge to tenants. Resale of electric energy through park owned meters will not be permitted (See 2.2.1)

### 3.6.5.2 Individual Company Metered Service

Mobile Home Parks will be supplied through company installed individual meters for individual tenants and other types of service required in park under the provisions required on 3.4.3 and 3.4.4 and the subparts appertaining thereto.

### 3.6.6 Miscellaneous Types of Electric Service

Certain other types of electric service are available from the company. Information on such services not specifically covered in this Tariff may be obtained at the nearest company office. Such special cases will be given individual consideration.

# 3.7 SCHEDULE OF STANDARD CHARGES AND NON-REFUNDABLE DEPOSITS FOR COST ESTIMATES FOR UNDERGROUND ELECTRIC DISTRIBUTION SYSTEMS

### 3.7.1 Standard Charges

The Standard Charges listed here are Contributions In Aid of Construction (CIAC) which are referenced by other sections of these rules and regulations.

#### 3.7.1.1 Residential Subdivision

Low Density Sub	odivisions per service	e lateral or o	dwelling unit	\$ <del>370.29</del> 0.00
High Density Su	bdivisions per service	e lateral or	dwelling unit	\$0.00

# 3.7.1.2 New Single-phase UG Service Laterals from Overhead Distribution Systems

Fixed Charge for 2/0 service lateral	\$ <del>18.46</del> <u>36.61</u>
Fixed Charge for 4/0 service lateral	\$ <del>92.54</del> 189.11

Per trench foot charge for 2/0 service lateral	\$ <del>11.62</del> 18.44
Per trench foot charge for 4/0 service lateral	\$ <del>12.18</del> 19.49

Credit for service pole if otherwise required for overhead service \$801.36963.79

Continued to Sheet No. 5.515

ISSUED BY: A. D. Collins, President DATE EFFECTIVE: January 6, 2022



# SEVENTEENTH EIGHTEENTH REVISED SHEET NO. 5.515

## CANCELS SIXTEENTH SEVENTEENTH REVISED SHEET NO. 5.515

Continued 1	from S	Sheet I	VIΩ	5 510
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# 3.7.1.3 Single-phase UG Service Laterals Converted from Existing Overhead Service Drops

Removal charge for overhead service with no service pole \$\frac{205.08233.57}{205.08233.57}

Removal charge for overhead service with a service pole \$885.91997.13

Fixed Charge for 2/0 service lateral \$\frac{18.4636.61}{92.54189.11}\$

Per trench foot charge for 2/0 service lateral \$\frac{11.6218.44}{2.1819.49}\$

Credit for service pole if otherwise required for overhead service \$801.36963.79

Continued to Sheet No. 5.516

**ISSUED BY:** A. D. Collins, President **DATE EFFECTIVE:** January 6, 2022



# ELEVENTH TWELFTH REVISED SHEET NO. 5.516 CANCELS TENTH ELEVENTH REVISED SHEET NO. 5.516

Continued from Sheet No. 5.515

# 3.7.2 Non-refundable Deposits for Estimates of CIAC for Conversion of Existing Overhead Distribution Facilities to Underground Facilities

Qualified applicants can request, upon payment of a non-refundable deposit as listed below, the conversion of overhead distribution facilities to underground in accordance with these Rules and Regulations for conversion areas of not less than one (1) city block in length along both sides of the main distribution system, or in the absence of city blocks, not less than five (5) contiguous building lots along both sides of the main distribution system, or in the absence of both, not the less than 600 pole-feet of the main distribution system, including all customers served along both sides of the main distribution system, and so as to result in a decrease in the number of non-lighting poles in the system.

Requests for conversions, except for individual residential service covered under Section 3.4.3.3, will be accompanied by a non-refundable amount as follows:

### **Density Class**

Urban Commercial or Residential Rural Commercial or Residential High or Low Density Subdivision

#### **Deposit Amount**

\$10,39111,742 per mile\* \$5,9406,712 per mile\* \$49-55 per lot

ISSUED BY: A. D. Collins, President DATE EFFECTIVE: January 6, 2022

<sup>\*</sup> As measured along the existing overhead primary and secondary distribution system.

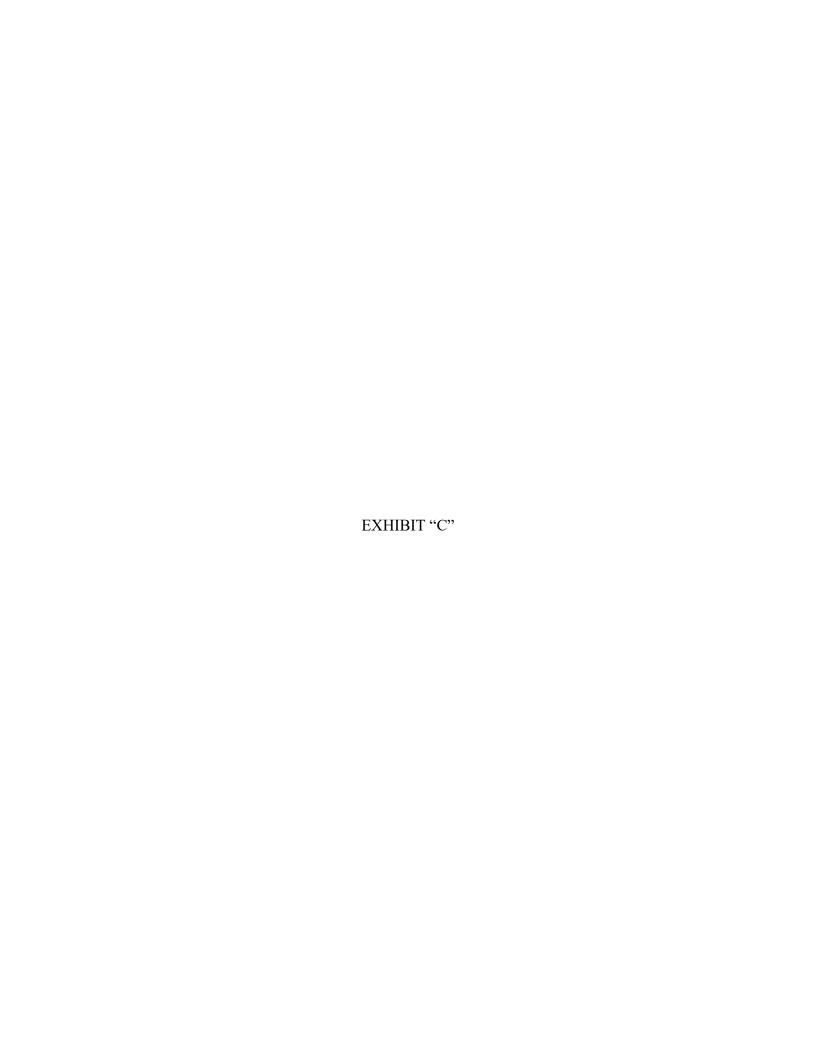


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## **Supporting Analyses and Data**

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Underground (UG) Design Cost Model	LD1
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LD UG Summary	LD 3
LD UG Contractor Labor Cost Detail	LD 4
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LD OH Summary	LD 27
LD OH Major Materials	LD 28
Descriptive list of work orders required for the LD OH design	LD 29
Detailed Information on each LD OH work order	LD 30
High Density Differential Cost	
Underground (UG) Design Cost Model	HD1
Design Print – HD UG	HD 2
HD UG Summary	HD 3
HD UG Contractor Labor Cost Detail	HD 4
HD UG Major Materials	HD 5
Descriptive list of work orders required for the HD UG design	HD 6
Detailed Information on each HD UG work order	HD 9
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Labor over	head and material handling	LA 1

## OVERHEAD VS UNDERGROUND SUMMARY SHEET

## Single Occupancy Low Density 210 Lot Subdivision Cost per Lot

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
Labor	\$829.51	\$2,059.08	\$1,229.57
Material	\$967.78	\$2,048.62	\$1,080.84
TOTAL	\$1,797.29	\$4,107.70	\$2,310.41
NPV Operational Cost Including Storm Restoration and Lost Pole Attachment Revenue	\$4,928.39	\$2,570.64	-\$2,357.75
TOTAL Including NPV Operational Cost	\$6,725.68	\$6,678.34	-\$47.34

### COST PER SERVICE LATERAL OVERHEAD MATERIAL AND LABOR

### Single Occupancy Low Density 210 Lot Subdivision Cost per Lot

ITEM	MATERIAL	LABOR <sup>1</sup>	TOTAL
Service <sup>2</sup>	\$155.97	\$93.38	\$249.35
Primary	\$23.07	\$55.04	\$78.11
Secondary	\$159.87	\$187.14	\$347.01
Initial Tree Trim	\$0.00	\$0.00	\$0.00
Poles	\$234.13	\$325.22	\$559.35
Transformers	\$306.36	\$103.07	\$409.43
Subtotal	\$879.40	\$763.85	\$1,643.25
Stores Handling <sup>3</sup>	\$88.38	\$0.00	\$88.38
Subtotal	\$967.78	\$763.85	\$1,731.63
Engineering		\$65.66	\$65.66
TOTAL	\$967.78	\$829.51	\$1,797.29

 $<sup>^{1}\,</sup>$  Includes Administration, General, Energy Delivery Supervison, & Transportation

<sup>&</sup>lt;sup>2</sup> Includes Meter

 $<sup>^3</sup>$  10.05% of all Material

### COST PER SERVICE LATERAL UNDERGROUND MATERIAL AND LABOR

### Single Occupancy Low Density 210 Lot Subdivision Cost per Lot

ITEM	MATERIAL	LABOR <sup>1</sup>	TOTAL
Service <sup>2</sup>	\$508.05	\$263.43	\$771.48
Primary	\$470.73	\$127.72	\$598.45
Secondary	\$127.78	\$75.83	\$203.61
Transformers	\$754.98	\$118.09	\$873.07
Pri. and Sec. Trenching	\$0.00	\$813.82	\$813.82
Service Trenching	\$0.00	\$594.53	\$594.53
Subtotal	\$1,861.54	\$1,993.42	\$3,854.96
Stores Handling <sup>3</sup>	\$187.08	\$0.00	\$187.08
Subtotal	\$2,048.62	\$1,993.42	\$4,042.04
Engineering		\$65.66	\$65.66
TOTAL	\$2,048.62	\$2,059.08	\$4,107.70

<sup>&</sup>lt;sup>1</sup> Includes Administration, General, Energy Delivery Supervison, & Transportation

<sup>&</sup>lt;sup>2</sup> Includes Meter

 $<sup>^3</sup>$  10.05% of all Material

# TYPICAL SINGLE OCCUPANCY LOW DENSITY 210 LOT SUBDIVISION LAYOUT Overhead Design



TYPICAL SINGLE OCCUPANCY LOW DENSITY 210 LOT SUBDIVISION LAYOUT



### OVERHEAD VS UNDERGROUND SUMMARY SHEET

### Single Occupancy High Density 176 Lot Subdivision Individually Metered Cost per Lot

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
Labor	\$655.28	\$1,607.27	\$951.99
Material	\$757.31	\$1,444.32	\$687.01
TOTAL	\$1,412.59	\$3,051.59	\$1,639.00
NPV Operational Cost Including Storm Restoration and Lost Pole Attachment Revenue	\$3,656.43	\$1,207.69	-\$2,448.74
TOTAL Including NPV Operational Cost	\$5,069.02	\$4,259.28	-\$809.74

### COST PER SERVICE LATERAL OVERHEAD MATERIAL AND LABOR

### Single Occupancy High Density 176 Lot Subdivision Individually Metered Cost per Lot

ITEM	MATERIAL	LABOR <sup>1</sup>	TOTAL
Service <sup>2</sup>	\$166.77	\$106.50	\$273.27
Primary	\$18.77	\$41.08	\$59.85
Secondary	\$96.44	\$124.24	\$220.68
Initial Tree Trim			\$0.00
Poles	\$175.26	\$240.10	\$415.36
Transformers	\$230.91	\$82.08	\$312.99
Subtotal	\$688.15	\$594.00	\$1,282.15
Stores Handling <sup>3</sup>	\$69.16	\$0.00	\$69.16
Subtotal	\$757.31	\$594.00	\$1,351.31
Engineering		\$61.28	\$61.28
TOTAL	\$757.31	\$655.28	\$1,412.59

<sup>&</sup>lt;sup>1</sup> Includes Administration, General, Energy Delivery Supervison, & Transportation

<sup>&</sup>lt;sup>2</sup> Includes Meter

<sup>&</sup>lt;sup>3</sup> 10.05% of all Material

### COST PER SERVICE LATERAL UNDERGROUND MATERIAL AND LABOR

### Single Occupancy High Density 176 Lot Subdivision Individually Metered Cost per Lot

ITEM	MATERIAL	LABOR <sup>1</sup>	TOTAL
Service <sup>2</sup>	\$434.33	\$276.32	\$710.65
Primary	\$211.54	\$71.42	\$282.96
Secondary	\$124.87	\$82.15	\$207.02
Transformers	\$541.68	\$94.18	\$635.86
Pri. and Sec. Trenching		\$430.48	\$430.48
Service Trenching		\$591.44	\$591.44
Subtotal	\$1,312.42	\$1,545.99	\$2,858.41
Stores Handling <sup>3</sup>	\$131.90	\$0.00	\$131.90
Subtotal	\$1,444.32	\$1,545.99	\$2,990.31
Engineering		\$61.28	\$61.28
TOTAL	\$1,444.32	\$1,607.27	\$3,051.59

<sup>&</sup>lt;sup>1</sup> Includes Administration, General, Energy Delivery Supervison, & Transportation

Includes Meter

<sup>&</sup>lt;sup>3</sup> 10.05% of all Material

### OVERHEAD VS UNDERGROUND SUMMARY SHEET

### Single Occupancy High Density 176 Lot Subdivision Multi-Unit Meter Centers Cost per Lot

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
Labor	NA	NA	NA
Material	NA	NA	NA
TOTAL	NA	NA	NA

Tampa Electric's URD policy does not include "per lot" charges for multi-unit meter centers. These installations are covered in Tariff Section 5 Subsection 3.4.4.

### COST PER SERVICE LATERAL OVERHEAD MATERIAL AND LABOR

### Single Occupancy High Density 176 Lot Subdivision Multi-Unit Meter Centers Cost per Lot

ITEM	MATERIAL	LABOR <sup>1</sup>	TOTAL
Service <sup>2</sup>			\$0.00
Primary			\$0.00
Secondary			\$0.00
Initial Tree Trim			\$0.00
Poles			\$0.00
Transformers			\$0.00
Subtotal	\$0.00	\$0.00	\$0.00
Stores Handling <sup>3</sup>			\$0.00
Subtotal	\$0.00	\$0.00	\$0.00
Engineering			\$0.00
TOTAL	\$0.00	\$0.00	\$0.00

<sup>&</sup>lt;sup>1</sup> Includes Administration, General & Transportation

Tampa Electric's URD policy does not include "per lot" charges for multi-unit meter centers. These installations are covered in Tariff Section 5 Subsection 3.4.4.

<sup>&</sup>lt;sup>2</sup> Includes Meter

<sup>&</sup>lt;sup>3</sup> 10.05% of all Material

### COST PER SERVICE LATERAL UNDERGROUND MATERIAL AND LABOR

### Single Occupancy High Density 176 Lot Subdivision Multi-Unit Meter Centers Cost per Lot

ITEM	MATERIAL	LABOR <sup>1</sup>	TOTAL
Service <sup>2</sup>			\$0.00
Primary			\$0.00
Secondary			\$0.00
Transformers			\$0.00
Pri. and Sec. Trenching			\$0.00
Service Trenching			\$0.00
Subtotal	\$0.00	\$0.00	\$0.00
Stores Handling <sup>3</sup>			\$0.00
Subtotal	\$0.00	\$0.00	\$0.00
Engineering			\$0.00
TOTAL	\$0.00	\$0.00	\$0.00

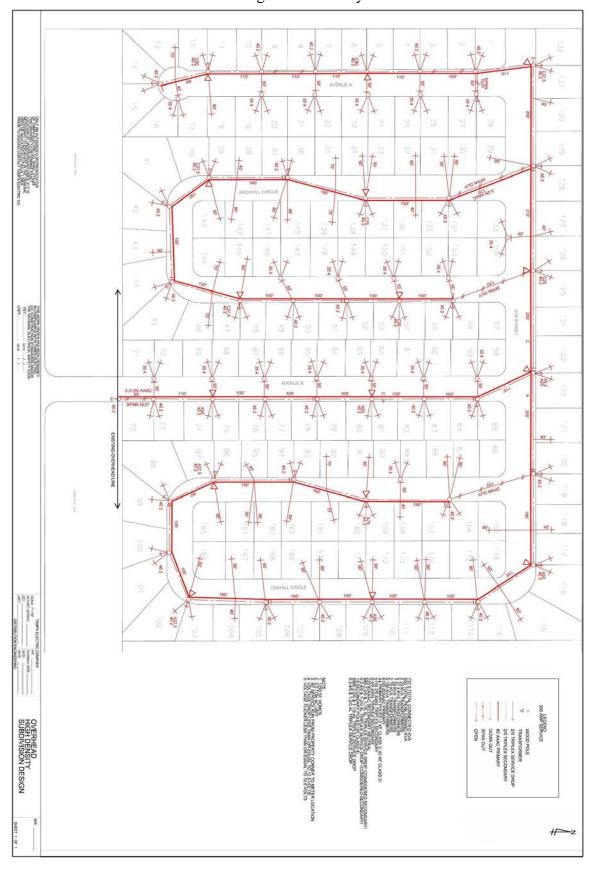
<sup>&</sup>lt;sup>1</sup> Includes Administration, General & Transportation

Tampa Electric's URD policy does not include "per lot" charges for multi-unit meter centers. These installations are covered in Tariff Section 5 Subsection 3.4.4.

<sup>&</sup>lt;sup>2</sup> Includes Meter

<sup>&</sup>lt;sup>3</sup> 10.05% of all Material

# <u>TYPICAL SINGLE OCCUPANCY HIGH DENSITY 176 LOT SUBDIVISION LAYOUT</u> Overhead Design - Individually Metered



TYPICAL SINGLE OCCUPANCY HIGH DENSITY 176 LOT SUBDIVISION LAYOUT
Underground Design - Individually Metered



### AVERAGE UNDERGROUND FEEDER COSTS

Underground	Overhead	Difference
\$/Ft	\$/Ft	\$/Ft
With Favorable Transhing		
With Favorable Trenching \$/Ft		\$/Ft
Additional Trenching Cost*		
(Difficult Trenching)		<b>.</b> —
\$/Ft		\$/Ft
* Difficult trenching charges include undergr	ound cost of cable-in-co	nduit and rock trench adder.
Note: Above costs reflect adjustment of \$underground estimates.	for overhead estin	nates and \$ for
Feeder cost are not included in Tampa Ele	ctric "per lot" charges	. Feeder installation policy
addressed in Tampa Electric's Tariff Section	on 5 Subsection 3.4.1.1.	,

### ACTUAL OPERATIONAL DISTRIBUTION EXPENSES IN 2022

For Overhead and Underground

OVERHEAD UNDERGROUND

Operational Expense - Distribution

\$63,130,928

\$29,446,047

# JOINT TRENCHING WITH OTHER UTILITIES In RESIDENTIAL DISTRIBUTION

### 2013- 2022 ADDITIONS

				Total	Total
				Amount	Amount
		Work		Due From	Due To
Date		Order		Other	Other
Closed	<u>Location</u>	Number	<b>Footage</b>	<b>Utility</b>	<b>Utility</b>

Tampa Electric did not engage in joint trenching during calendar year 2022.

# JOINT TRENCHING WITH OTHER UTILITIES In RESIDENTIAL DISTRIBUTION

(continued)

<u>Year</u>	Footage <u>Feet</u>	Amount Due From Other Utility	Amount Due To Other Utility
Total For 2013	0	\$0.00	\$0.00
Total For 2014	0	\$0.00	\$0.00
Total For 2015	0	\$0.00	\$0.00
Total For 2016	0	\$0.00	\$0.00
Total For 2017	0	\$0.00	\$0.00
Total For 2018	0	\$0.00	\$0.00
Total For 2019	0	\$0.00	\$0.00
Total For 2020	0	\$0.00	\$0.00
Total For 2021	0	\$0.00	\$0.00
Total For 2022	0	\$0.00	\$0.00
10-Year Total	0	\$0.00	\$0.00

#### 4/2023

#### LOW DENSITY MODEL

(210 lots)

Underground Costs (per lot)

### With overheads filed in rate case

	MATE	RIAL	LABO	R	TOTAL		
ITEM	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE	EXPLANATION OF % CHANGE
SERVICE	508.05	53.48%	263.43	6.04%	771.48	33.14%	Underground material up, TEC & Contractor overhead up
PRIMARY	470.73	54.64%	127.72	16.81%	598.45	44.64%	Underground material up, TEC & Contractor overhead up
SECONDARY	127.78	59.74%	75.83	16.81%	203.61	40.51%	Underground material up, TEC & Contractor overhead up
TRANSFORMERS	754.98	99.29%	118.09	37.03%	873.07	87.75%	Underground material up, TEC & Contractor overhead up
TRENCHING							
PRIMARY & SECONDARY			813.82	154.53%	813.82	154.53%	Contractor rates for primary & secondary trenching up
SERVICES			594.53	86.44%	594.53	86.44%	Contractor rates for service trenching up
SUB-TOTAL	1,861.54	70.12%	1,993.42	73.72%	3,854.96	71.96%	
STORES HANDLING	187.08	39.90%			187.08	39.90%	Higher material costs produces higher handling costs
SUB-TOTAL	2,048.62	66.83%	1,993.42	73.72%	4,042.04	70.16%	
ENGINEERING			65.66	0.00%	65.66	0.00%	
TOTAL	2,048.62	66.83%	2,059.08	69.73%	4,107.70	68.27%	
					2,570.64		nt Value of the Life Cycle Operational Cost Including Storm In and Lost Pole Attachment Revenue
Total with NPV Factor					6,678.34	Total Inclu	ding NPV of Operational Cost

Overhead Costs (per lot)

	MATI	ERIAL	LABO	R	TOTAL		
ITEM	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE	EXPLANATION OF % CHANGE
SERVICE	155.97	15.64%	93.38	16.81%	249.35	16.07%	Material up, Labor up
PRIMARY	23.07	43.83%	55.04	16.81%	78.11	23.67%	Material up, Labor up
SECONDARY	159.87	31.91%	187.14	16.81%	347.01	23.31%	Material up, Labor up
INITIAL TREE TRIM			0.00		0.00		
POLES	234.13	55.35%	325.22	16.81%	559.35	30.35%	Material up, Labor up
TRANSFORMERS	306.36	46.65%	103.07	16.81%	409.43	37.79%	Material up, Labor up
SUB-TOTAL	879.40	39.20%	763.85	16.81%	1,643.25	27.81%	
STORES HANDLING	88.38	14.48%			88.38	14.48%	Higher material costs produces higher handling costs
SUB-TOTAL	967.78	36.51%	763.85	16.81%	1,731.63	27.06%	
ENGINEERING			65.66	0.00%	65.66	0.00%	
TOTAL	967.78	36.51%	829.51	15.28%	1,797.29	25.81%	
					4,928.39	1	nt Value of the Life Cycle Operational Cost Including Storm on and Lost Pole Attachment Revenue
Total with NPV Factor			-	1	6.725.68	Total Inclu	uding NPV of Operational Cost

Differential Costs (per lot)

	MATE	RIAL	LABO	R	TOTAL	
ITEM	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE
Differential (per lot)	1,080.84	108.24%	1,229.57	149.13%	2,310.41	128.17%
NPV amount					-2,357.75	
Differential (per lot)	0.00		0.00		-47.34	-112.78%

<sup>&</sup>lt;sup>1</sup> Includes NPV of Operational Cost



#### UG Construction Cost Data Summary Low Density (210-Lot) UG Subdivision Costs

	Α	В	C (C + M) Material and	D	E (F + L) Total Labor	F (G+H+I)	G Base	H (G x J x TLF) TEC Labor	I (G x K x CLF) Contract Labor	J TEC	K Contractor	L	M (D x MHR) Material	N (C+E)
Line #	Work Type/WR #	Description	Handling	Material	Plus Vehicles	Total Labor	Labor	Overheads	Overheads	Work %	Work %	Vehicle	Handling	Total
1	Transformers													
2	924920	Install & Ground Transformers	174,479.92	\$158,546.04	15,089.05	13,387.44	7,296.80	5,256.76	833.88	60%	40%	\$1,701.61	15,933.88	189,568.97
3	Contractor	Prepare Pad Site			9,709.09	9,709.09	7,551.60		2,157.49	0%	100%			9,709.09
4			174,479.92	158,546.04	24,798.14	23,096.53	14,848.40	5,256.76	2,991.37			1,701.61	15,933.88	199,278.06
5														
6 7	Primary 924957	Primary Line - OH-UG Takeoffs	2,354.70	\$2,139.66	2,231.93	1.980.23	1,079.32	777.56	123.34	60%	40%	\$251.70	215.04	4.586.62
8	925017	Primary Conduit (Material Only)	46,341.25	\$42,109.27	2,201.00	1,500.25	-	-	-	0070	4070	Ψ201.70	4,231.98	46,341.25
9	925022	Primary Cable	60,091.83	\$54,604.12	24,588.55	21,815.67	11,890.59	8,566.22	1,358.86	60%	40%	\$2,772.89	5,487.71	84,680.39
10			108,787.78	98,853.05	26,820.48	23,795.89	12,969.91	9,343.78	1,482.20			3,024.58	9,934.73	135,608.26
11	Secondary													
12	925024	Secondary Cable	15,816.75	\$14,372.33	15,924.82	14,128.95	7,700.96	5,547.93	880.07	60%	40%	\$1,795.86	1,444.42	31,741.56
13	925026	Secondary Conduit (Material Only)	13,713.08	\$ <u>12,460.77</u>									1,252.31	13,713.08
14 15	Service		29,529.83	26,833.10	15,924.82	14,128.95	7,700.96	5,547.93	880.07			1,795.86	2,696.73	45,454.64
16	925028	Service Cable	38,031.89	\$34,558.74	51,166.87	51,166.87	39,796.90	_	11,369.97	0%	100%	_	3,473.15	89,198.77
17	925029	Set Meters	20,771.72	\$18,874.80	4,154.08	3,685.62	2,008.84	1,447.21	229.57	60%	40%	\$468.46	1,896.92	24,925.80
18	925030	Service Conduit Material	58,608.61	\$53,256.35									5,352.26	58,608.61
19			117,412.22	106,689.89	55,320.95	54,852.49	41,805.74	1,447.21	11,599.54			468.46	10,722.33	172,733.18
20														
21	Trenching	B			407.007.00				00 504 55	001	4000/			
22 23	Contractor Contractor	Primary Trenching Secondary Trenching	-	-	137,667.33 16,781.64	137,667.33 16,781.64	107,075.78 13,052.53	-	30,591.55 3,729.11	0% 0%	100% 100%	-	-	137,667.33 16,781.64
24	TEC Inspection		_	_	16,452.69	15,594.97	-	-	-	100%	0%	857.72	-	16,452.69
25	·	•	-	-	170,901.66	170,043.94	120,128.31	-	34,320.66			857.72		170,901.66
26														
27	Contractor	Svc Trenching Pri. Prop	-	-	62,666.30	62,666.30	48,741.00	-	13,925.30	0%	100%	-	-	62,666.30
28	Contractor	Svc Trenching Rts-of-Wy	-	-	52,434.03	52,434.03	40,782.48	-	11,651.55	0%	100%		-	52,434.03
29	TEC Inspection	n for Service			9,750.62	9,242.42				100%	0%	508.20	<del></del>	9,750.62
30 31			-	-	124,850.96	124,342.76	89,523.48	-	25,576.86			508.20	-	124,850.96
32 33	Engineering	Design/Inspection/Coordination	-	-	13,788.39	13,788.39	-	-	-			-	-	13,788.39
34	Totals (Sum of lines	4, 10, 14, 19, 25, 30, and 32)	\$ 430,209.75 \$	390,922.08	\$ 432,405.40	\$ 424,048.96	\$ 286,976.80 \$	21,595.68	\$ 76,850.70			\$ 8,356.44	\$ 39,287.67	862,615.15
35	Cost per Lot	(line 34 /210 lots)	\$ 2,048.62		\$ 2,059.07								:	\$ 4,107.69

Adjustment Factors		
TEC Operations Labor Overhead Factor	TLF =	1.2007
Contractor Labor Overhead Factor	CLF =	0.2857
Current year material handling charge rate	MHR =	0.1005

		UG Contrac	tor Labor E	stimate -	210 lot low	densitv	
		Prepare pad s		Contractor Pad sites	Labor Costs)		
Pad site preparation	Total	\$7,551.60	\$251.72	30			
		Primary Tren	ching & Cond	uit (Primar	y Contractor L	abor Costs)	
		<u>Total</u> \$83,457.88	<u>Cost</u> \$5.96	<u>Feet</u> 14003		Mashina Tasa	abina Cast Oalu
		\$22,128.40	\$1.40	15806			ching Cost Only tallation (both trenching and in existing trench)
		\$0.00	\$0.00	14003		Pull-tape Insta	llation (used exact length for labor cost not 5% extra)
Primary Trenching	Sub-total	\$1,489.50 <b>\$107,075.78</b>	\$496.50	3		1ø splice box	(30" x 48" x 18"), UG GR&S 6-21
Filliary Trenching	Oub-total	ψ101,013.10					
					nary Contracto	r Labor Costs	1
		<u>Total</u> \$9.518.12	<u>Cost</u> \$5.96	<u>Feet</u> 1597		Machine Trend	ching Cost Only
		\$0.00	\$3.90 \$1.40	0		2" Conduit Ins	
		\$528.00	\$1.65	320		3" Conduit Ins	
		\$3,006.41 \$0.00	\$1.81 \$0.00	1661 1597		4" Conduit Ins	tallation Ilation (used exact length not 5% extra)
Secondary Trenching	Sub-total	\$13,052.53	φ0.00	1391		ruii-tape iiista	ilation (used exact length not 5% extra)
Primary Contractor Labor	Total	\$120,128.31					
		Service Trend	hing & Cond	uit (Primar	y Contractor L	ahor Costs)	
		Total	Cost	Feet	y Contractor L	<u> </u>	
		\$21,414.28	\$5.96	3593			st -Trenching feet required for 2" service conduit
		\$3,427.00	\$5.96	575			st -Trenching feet required for 3" service conduit
		\$12,119.80 \$3,821.40	\$1.40 \$1.65	8657 2316		2" Conduit Inst	
		\$0.00	\$0.00	10973			Illation (used exact length not 5% extra)
Svc Trenching Rts-of-Wy	Sub-total	\$40,782.48					
		Service Trend	hing & Cond	uit on Priva	ate Property (S	ervice Contra	ctor Labor Costs)
	0	<u>Total</u>	Cost	<u>Feet</u>		T	
Svc Trenching Pri. Prop	Sub-total	\$48,741.00	\$7.70	6330		renching & co	onduit labor cost - Trenching feet = 30 ft x 210 lots
		Service Cable			bor Costs)		
	Cb. 4-4-1	Total	Cost	Feet		I4-III 2/0 -	- 4/0 Cabla in aviation and it from a sure to make
Service Cable Labor	Sub-total	\$39,796.90	\$2.30	17303		installing 2/0 d	r 4/0 Cable in existing conduit from source to meter
Service Conractor Labor	Total	\$129,320.38					
Total Contractor I	Labor Cost	\$249,448.69					
		Inspection (T	ECO Labor Co	ost)			
		TEC Labor	TEC Labor			TEC Vehicle	
		<u>Total</u> \$10,953.46	Rate \$88.00	14003	Rate \$4.84	<u>Total</u> \$602.44	Inspection costs for Primary Contractor (TECO Labor Cost)
		\$10,953.46	\$88.00	1597	\$4.84	\$602.44 \$68.71	Primary Inspection chg = (mach. trnch ft / 900 ft per day)*(8 hr/day)*Contractor rate Secondary Inspection chg = (mach. trnch ft / 900 ft per day)*(8 hr/day)*Contractor rate
		\$3,260.30	\$88.00	4168	\$4.84	\$179.32	Service ROW Inspection chg = (machine trench ft / 900 ft per day)*(8 hr/day)*Contractor rate
Inspection costs for Primary Contractor	Sub-total	\$132.00 <b>\$15,594.97</b>	\$44.00	3	\$2.42	\$7.26 <b>\$857.72</b>	1ø splice box (30" x 48" x 18"), UG GR&S 6-21
		TEC Labor	TEC Labor		TEC Vehicle	TEC Vehicle	
		Total	Rate	Feet/Qty	Rate	<u>Total</u>	Inspection costs for Service Contractor (TECO Labor Cost)
Inspection costs for	0	\$9,240.00	\$44.00	210	\$2.42	\$508.20	Service Private Property Inspection = .5hr x # of lots x rate
Service Contractor	Sub-total	\$9,242.42				\$508.20	
		\$24,837.39					

Please modify the low density construction drawing legend as shown below.

### UG Material List - 1501-2500 sq ft same trench 210 lot low density

1250 Total Connected KVA 1272.2 Total initial peak demand KVA 6 25 kVA Transformers 8 37.5 kVA Transformers 16 50 kVA Transformers 0 75 kVA Transformers 14003 Trench Feet of 1/0 AL Primary Cable 1803 Existing trench feet of 1/0 AL Primary Cable Trench Feet of 2/0 AL Secondary Cable • Existing trench feet of 2/0 AL Secondary Cable 1597 Trench Feet of 4/0 AL Secondary Cable 384 Existing trench feet of 4/0 AL Secondary Cable **0** Trench Feet of 500 MCM AL Secondary Cable 0 Existing trench feet of 500 MCM AL Secondary Cable 9233 Trench Feet of 2/0 AL Service Cable 5064 Existing trench feet of 2/0 AL Service Cable 1265 Trench Feet of 4/0 AL Service Cable

#### Notes:

1. 1501-2500 SF Homes

0 Load Break Cabinet

- 2. 3.5 Ton AC Units
- 3. 40' Service run from property corner to meter location
- 4. Voltage drop less than or equal to 12.0 volts

1741 Existing trench feet of 4/0 AL Service Cable

5. Voltage flicker less than or equal to 12.0 volts

#### UG CU Totals (Material and Labor) - 2000 sq ft - 210 lot low density

#### **Work Request**

<u>Number</u>

924920

		<u>Transformers - Cost for: Material only, T</u>	EC labor & over	<u>head, vehicle</u>
Qty	CU	Definition	Total Conn	ected KVA
	0 pku51a3n	25 kva, 6 tap 250mcm	0	
	6 pku51c3n	25 kva, 8 tap 250mcm	150	150
	0 pku51a4n	37.5 kva, 6 tap 250mcm	0	150
	1 pku51b4n	37.5 kva, 6 tap 500mcm	37.5	187.5
	0 pku51c4n	37.5 kva, 8 tap 250mcm	0	187.5
	7 pku51d4n	37.5 kva, 8 tap 500mcm	262.5	450
	0 pku51a5n	50 kva, 6 tap 250mcm	0	450
	0 pku51b5n	50 kva,6 tap 500mcm	0	450
	0 pku51c5n	50 kva,8 tap 250mcm	0	450
	16 pku51d5n	50 kva,8 tap 500mcm	800	1250
	0 pku51a6n	75 kva, 6 tap 250mcm	0	1250
	0 pku51b6n	75 kva, 6 tap 500mcm	0	1250
	0 pku51c6n	75 kva,8 tap 250mcm	0	1250
	0 pku51d6n	75 kva, 8 tap 500mcm	0	1250
	1 bushcover_arrester	open position on loop tx used as radial		1250
	1 bushdummy_arrester	normal open tx in loop		
	2 bushinsert_arrester	at adjacent tx to normal open in a loop		
	33 grdmeg1/2	meggar ground, drive rods, 1 location, 1/2" rods		

#### **Work Request**

Number 924957

OH Primary - Cost for: Material only, TEC labor & overhead, vehicle

CU Qty Definition

4 PKE601WF1B TEC material & labor to frame terminal pole CO & LA 4 FLOH103 Fuse

meggar ground, drive rods, 1 location, 1/2" rods

**Primary Trenching - Labor Only** 

Done by contractors

Used to determine contractor labor cost on the Contractor Labor worksheet

Qty CU Definition

14003 Trenching feet required for 2" primary conduit

1803 Existing trench feet used for 2" primary conduit

14003 Install Pulling Tape (blow in tape for pull - trench feet used to determine contractor cost)

#### Work Request

Number 925017

### **Primary Conduit - Cost for Material only**

Material used by contractors to install the conduit system

Qty CU Definition

40 COND2G Conduit, galvanized 2", 10' with coupling, for up terminal pole TEC # 2004389

16156 COND2\_SCHA 2" PVC Schedule A conduit TEC # 2004488

16506 MULE TAPE Pulling tape - actual length - does not need any 5% adder TEC # 2007414

88 ELL2G90 2" elbow 90 galv 9.5" radius TEC # 2004395 1 ELL2G45 2" elbow 45 galv 9.5" radius TEC # 2004394

178 COUP2P Coupling, 2" PVC (2 per elbow) TEC # 2004507

33 GLUECONDF 2"& 3" pvc 1 qt for 500' fast dry 3 HH1PHPRI 1ø splice box (30" x 48" x 18"), UG GR&S 6-21

#### Work Request Number 925022 Primary Cable - Cost for: Material only, TEC labor & overhead, vehicle CU Qty Definition 4 PKU16WF pothead, 38' 1c 1/0AL cable, 20' pvc, ground conn, wood pole 152 61 PKU11F safebreak, 5' 1c 1/0AL cable, ground conn 305 0 PKU31P3 switch cubicle(lbc) 1ph, 200a deadfront, 3 position w/pad, grnd 0 PKU31P4 switch cubicle(lbc) 1ph, 200a deadfront, 4 position w/pad, grnd 0 FAULT1PA fault indicator, 1ph 1/0-4/0 above grade, 400a 15806 CA1/0CN1CAL\_SOL cable, 1/0AL concentric neutral 15kV, includes labor 15806 0 WIU1F labor to pull ug cable in conduit Our check! -Work request material 1/0AL concentric neutral 15kV cable total should be ==> 17060.9 Secondary Trenching - Labor Only - Done By Contractors Used to determine contractor labor cost on the Contractor Labor worksheet Qty CU **Definition** 0 Trenching feet required for 2" secondary conduit 0 Existing trench feet used for 2" secondary conduit 0 Trenching feet required for 3" secondary conduit used for 2/0 service cable 0 Existing trench feet used for 3" secondary conduit used for 2/0 service cable 0 Trenching feet required for 3" secondary conduit used for 4/0 service cable 320 Existing trench feet used for 3" secondary conduit used for 4/0 service cable 1597 Trenching feet required for 4" secondary conduit used for 4/0 service cable 64 Existing trench feet used for 4" secondary conduit used for 4/0 service cable 0 Trenching feet required for 4" secondary conduit used for 500 service cable 0 Existing trench feet used for 4" secondary conduit used for 500 service cable 1597 Install Pulling Tape (blow in tape for pull - trench feet used to determine contractor cost) **Work Request** Number 925024 Secondary Cable & Hand Holes - Cost for: Material only, TEC labor & overhead, vehicle Qty CU 0 wiu3sb 2c 2/0 1c 1 neutral, 600 v - added 5% here This CU adds 5% and we want it to. 2171 CA4/0INS3CAL 2c 4/0 1c 2/0 neutral, 600v includes labor - added 5% her This CU adds 5% and we want it to. 0 wiu3sn 2c 500 1c 350 neutral, 600v - added 5% here This CU adds 5% and we want it to. 0 insbus350/4 crab 4 position up to 350mcm 0 insbus350/6 crab 6 position up to 350mcm 0 insbus500/4 crab 4 position up to 500mcm 69 insbus500/6 crab 6 position up to 500mcm 0 insbus500/8 crab 8 position up to 500mcm 0 wiu1f labor to pull ug cable in conduit 23 syhotty energize ug secondary in transformer 23 syhothh energize ug secondary in hand hole 0 hhsec secondary h/h 12"x20", 3 or 4 2/0 or 4/0 svc w/ 2/0 or 4/0 sec 23 HH LARGE PEDEST, secondary h/h 14"x18" large pedestal, 5 to 7 2/0 or 4/0 svc w/ 4/0 or 500 sec (any time 500 used) Work Request <u>Number</u> 925026 Secondary Conduit - Cost for Material Only Material used by contractors to install the conduit system CU Definition Qty 0 COND2\_SCHA 2" conduit sched A bell end TEC # 2004488 340 COND3 SCHA 3" conduit sched A bell end TEC # 2004517 1871 COND4\_PVC\_SCHA 4" conduit sched A bell end TEC # 2004529 2326 MULE TAPE Pulling tape, plus adding 5% extra here TEC # 2007414 2" elbow 90 PVC 9.5" radius TEC # 2004511 0 ELL2P90 0 ELL2P45 2" elbow 45 PVC 9.5" radius TEC # 2004510 4 ELL3P90 3" elbow 90 PVC 13" radius TEC # 2004524 0 ELL3P45 3" elbow 45 PVC 13" radius TEC # 2004523 42 ELL4P90 4" elbow 90 PVC 16" radius TEC # 2004538 0 ELL4G45 4" elbow 45 galv 16" radius TEC # 2004427 0 COUP2P Coupling, 2" PVC (2 per elbow) TEC # 2004507 8 COUP3P Coupling, 3" PVC (2 per elbow) TEC # 2004521 Coupling, 4" PVC (2 per elbow) TEC # 2004535 84 COUP4P 1 GLUECONDF 2"& 3" pvc 1 qt for 500' fast dry 8 GLUECONDM 4"& 6" pvc 1 qt for 250' medium dry

#### **Work Request** <u>Number</u> 925028 Service Cable - Cost for Material Only Material used by contractors to install the conduit system Qty CU Definition 16177 CA2/0INS3CAL 2c 2/0 & 1c 1 neutral, 600 v service cable This CU adds 5% and we want it to. 3236 CA4/0INS3CAL 2c 4/0 & 1c 2/0 neutral, 600 v service cable This CU adds 5% and we want it to Work Request Number 925029 Set Meter - Cost for: Material only, TEC labor & overhead, vehicle CU Definition Qty 210 meterlabor 210 1900006 meter, kwh 30a 240v Service Trenching - Labor Only - Done By Contractors Used to determine contractor labor cost on the Contractor Labor worksheet Qty Definition 188 Number of 2/0 services installed in 2" conduit 0 Number of 2/0 services installed in 3" conduit 23 Number of 4/0 services installed in 3" conduit 5640 Trenching feet for 2" service conduit on private property-service contractor 1880 Trenching feet for 10' stub of 2" service conduit installed by primary contractor 1713 Trenching feet for 2" service conduit installed by primary contractor 5064 Existing trench feet used for 2" service conduit installed by primary contractor 8657 Install Pulling Tape for 2" conduit (blow in tape for pull - Primary Contractor) 0 Trenching feet for 3" service conduit on private property-service contractor for 2/0 service 0 Trenching feet for 10' stub of 3" service conduit installed by primary contractor for 2/0 service 0 Trenching feet for 3" service conduit installed by primary contractor for 2/0 service 0 Existing trench feet used for 3" service conduit installed by primary contractor for 2/0 service 0 Install Pulling Tape for 3" conduit for 2/0 service (blow in tape for pull - Primary Contractor) 690 Trenching feet for 3" service conduit on private property-service contractor for 4/0 service 230 Trenching feet for 10' stub of 3" service conduit installed by primary contractor for 4/0 service 345 Trenching feet for 3" service conduit installed by primary contractor for 4/0 service 1741 Existing trench feet used for 3" service conduit installed by primary contractor for 4/0 service 2316 Install Pulling Tape for 3" conduit for 4/0 service (blow in tape for pull - Primary Contractor) Work Request Number 925030 Service Conduit - Cost for Material Only Material used by contractors to install the conduit system Qty Definition Used by contractors to install conduit system 5640 Conduit for 2" service on private property-service contractor 2820 Conduit for 10' stub of 2" service installed by primary contractor 6777 Conduit for 2" service installed by primary contractor 10537 Pulling Tape installed in 2" conduit by Primary Contractor) 15237 COND2\_SCHA Total quantity of 2" conduit for work order - TEC # 2004488 504 ELL2P90 2" elbow 90 PVC 9.5" radius TEC # 2004395 0 FH 2P45 2" elbow 45 PVC 9.5" radius TEC # 2004394 188 LOCKNUT2 2" galvanized Lock Nut TEC # 2004396 2070 CONDFLEX2 2" Flexible PVC conduit TEC # 2004491 188 ADAPT2F/M 2" PVC Adapter, male thread/female slip TEC # 2004493 188 RISER2G7 2" PVC Service Riser TEC # 2004401 1008 COUP2P Coupling, 2" PVC (2 per elbow) TEC # 2004507 690 Conduit for 3" service on private property-service contractor 345 Conduit for 10' stub of 3" service installed by primary contractor 2086 Conduit for 3" service installed by primary contractor 2546 Pulling Tape installed in 3" conduit by Primary Contractor) Total quantity of 3" conduit for work order - TEC # 2004517 3121 COND3 SCHA 69 ELL3P90 3" elbow 90 PVC 13" radius TEC # 2004524 0 ELL3P45 3" elbow 45 PVC 13" radius TEC # 2004523 23 RISFR21/2G7 2-1/2" house riser TEC # 2004409 23 LOCKNUT21/2 2-1/2" galvanized Lock Nut TEC # 2004408 23 CONDFLEX3 3" Flexible PVC conduit TEC # 20 Used by contractors to install conduit system 23 ADAPT2F/F 2-1/2"PVC Adapter, male thread/female slip TEC # 2004462 138 COUP3P Coupling, 3" PVC (2 per elbow) TEC # 2004521 37 GLUECONDF 2"& 3" pvc 1 gt for 500' fast dry 13083 MULE TAPE Total Pulling Tape installed in conduit by Primary Contractor) TEC # 2007414



**Contact Name:** Tampa Electric

Distribution Services Transformers 2000 Sq Ft Printed Date: 3/8/2023

District: CSA

WR No. 924920

Date Sched: 3/1/23 Date Required: 3/1/23

Additional Information: URD filing for 1501-2500 sq ft low density WR Description: LDUG 2000 sq ft TRANSFORMERS

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$158,546.04	\$0.00	\$158,546.04
OVERHEAD:	\$15,933.88	\$0.00	\$15,933.88
	\$174,479.92	\$0.00	\$174,479.92
LABOR HOURS:	152.8	0	152.8
LABOR COST:	\$7,296.80	\$0.00	\$7,296.80
OVERHEAD:	\$10,462.87	\$0.00	\$10,462.87
	\$17,759.67	\$0.00	\$17,759.67
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$192,239.59	\$0.00	\$192,239.59
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$192,239.59	\$0.00	\$192,239.59



**Design Number 1** 

Printed Date: 3/8/2023 Dist: CSA

WR No. 924920

			- rago rorr				
Mate	rial Numbe	r Description	Unit Price	Total Cost	Asset?		
INSTALL							
2	2003816	ARRESTER, UD, 10KV PARKING L/A, 8.40 KVR	\$247.42	\$494.84	Υ		
2	2003815	ARRESTER, URD, 10KV ELBOW L/A, 8.40 KVRM	\$92.64	\$185.28	Υ		
4	2003817	ARRESTER, URD, 10KV, BUSHING L/A, 8.40KV	\$318.18	\$1,272.72	Υ		
30	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$2.65	\$79.50	N		
60	2078000	CLAMP,GND,TRANSFORMER,#10 SOL-#1 STR CU	\$3.93	\$235.80	N		
4	2077931	CONNECTOR, VICE CU #2 STR	\$3.59	\$14.36	N		
90	2077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$430.20	N		
30	2001315	PAD, CONCRETE 40" X 45" X 4" 25- 50KVA T	\$110.72	\$3,321.60	N		
0	2001316	PAD, CONCRETE 44" X 52" X 4" 75-250KVA T	\$125.81	\$0.00	N		
30	2007395	PADLOCK, RED BRASS BODY 1/4" BRASS SHACK	\$22.80	\$684.00	N		
30	2007489	REPELLENT, FIRE ANT GRANULE 4 OZ BIFENTH	\$3.17	\$95.10	N		
120	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$22.38	\$2,685.60	N		
60	2004031	STUD, GALVANIZED, 11 THREAD PER INCH ALL	\$1.94	\$116.40	N		
90	2004904	TERMINAL, SLIP FIT AL 5/8 IN 8-POS #2-50	\$32.91	\$2,961.90	N		
0	2004948	TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 6	\$10.51	\$0.00	N		
0	2004954	TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 6	\$21.15	\$0.00	N		
0	2004950	TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 8	\$10.13	\$0.00	N		
6	2001518	TX,PM,LP,1P,25 KVA,240/120,FR3,SS	\$3,917.90	\$23,507.40	Υ		
8	2001519	TX,PM,LP,1P,37.5 KVA,240/120,FR3,SS	\$4,466.84	\$35,734.72	Υ		
16	2001520	TX,PM,LP,1P,50 KVA,240/120,FR3,SS	\$5,408.92	\$86,542.72	Υ		
0	2001521	TX,PM,LP,1P,75 KVA,240/120,FR3,SS	\$5,926.66	\$0.00	Υ		
180	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$1.00	\$180.00	N		
6	2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.65	\$3.90	N		
			Total	\$158,546.04			



Distribution Services Term Poles - low density 2000 sq ft Printed Date: 3/8/2023

District: CSA

WR No. 924957

Date Sched: 3/1/23 Date Required: 3/1/23

Additional Information: Low density URD filing - 2000 sq ft homes

WR Description: LDUG 2000 sq ft TAKEOFFS

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$2,139.66	\$0.00	\$2,139.66
OVERHEAD:	\$215.04	\$0.00	\$215.04
	\$2,354.70	\$0.00	\$2,354.70
LABOR HOURS:	22.62	0	22.62
LABOR COST:	\$1,079.32	\$0.00	\$1,079.32
OVERHEAD:	\$1,547.67	\$0.00	\$1,547.67
	\$2,626.99	\$0.00	\$2,626.99
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$4,981.69	\$0.00	\$4,981.69
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$4,981.69	\$0.00	\$4,981.69



**Design Number 1** 

**Printed Date: 3/8/2023** Dist: CSA

WR No. 924957

Mate	erial Numbe	r Description	Unit Price	<b>Total Cost</b>	Asset?
INSTALL					
4	2003651	ARRESTER, LIGHTNING DISTRIBUTION CLASS 8	\$54.26	\$217.04	Υ
4	2077754	BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.67	\$6.68	N
4	2131366	BRACKET, FG, 1 PH, 1 POS, 18"	\$48.26	\$193.04	N
4	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$2.65	\$10.60	N
4	2077911	CLAMP, HOT LINE CU TO CU #6 SOL- 2 STR T	\$6.27	\$25.08	N
160	2078012	CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$134.40	N
12	2004187	CONDUCTOR,BARE,#2 CU,7-STR,SOFT-DRAWN	\$1.19	\$14.28	N
4	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$1.20	\$4.80	N
8	2077930	CONNECTOR, VICE CU #4 STR	\$2.57	\$20.56	N
15	2077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$71.70	N
4	2003846	CUTOUT, 15KV, 100A FUSE HLDR, 300A UNVRS	\$141.87	\$567.48	Υ
4	2077793	FUSE LINK, 80A UNVRSL 100A CUTOUT 23" OA	\$7.37	\$29.48	N
4	2077822	KIT, ATTACHMENT, FOR ATTACHING "FLYING"	\$84.81	\$339.24	N
8	2077965	MOULDING, GROUND WIRE, PVC 1/2 IN X 8 FT	\$1.74	\$13.92	N
16	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$22.38	\$358.08	N
4	2077789	SCREW, LAG PILOT POINT 3/8 X 3	\$0.35	\$1.40	N
40	2077997	STAPLE, SECURES 1/2" PVC MOULDING TO WOO	\$0.39	\$15.60	N
4	2077828	STIRRUP, AL BODY & CU BAIL 1/0-397	\$25.73	\$102.92	N
4	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.34	\$1.36	N
4	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$1.00	\$4.20	N
12	2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.65	\$7.80	N
			Total	\$2,139.66	



Distribution Services Primary conduit 2000 Sq Ft

Printed Date: 3/8/2023

District: CSA

WR No. 925017

Date Sched: 3/1/23 Date Required: 3/1/23

Additional Information: Low density 2000 sq ft URD filing WR Description: LDUG 2000 sq ft PRIMARY CONDUIT

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$42,109.27	\$0.00	\$42,109.27
OVERHEAD:	\$4,231.99	\$0.00	\$4,231.99
	\$46,341.26	\$0.00	\$46,341.26
LABOR HOURS:	223.84	0	223.84
LABOR COST:	\$10,688.28	\$0.00	\$10,688.28
OVERHEAD:	\$15,325.93	\$0.00	\$15,325.93
	\$26,014.21	\$0.00	\$26,014.21
'EHICLE:	\$0.00	\$0.00	\$0.00
ONTRACTOR:	\$0.00	\$0.00	\$0.00
DDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
UBTOTAL:	\$72,355.47	\$0.00	\$72,355.47
EMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
VERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
BOR HOURS:	0	0	0
BOR COST:	\$0.00	\$0.00	\$0.00
/ERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
HICLE:	\$0.00	\$0.00	\$0.00
NTRACTOR:	\$0.00	\$0.00	\$0.00
DITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
IBTOTAL:	\$0.00	\$0.00	\$0.00
RANSFER:			
ABOR HOURS:	0	0	0
BOR COST:	\$0.00	\$0.00	\$0.00
'ERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
HICLE:	\$0.00	\$0.00	\$0.00
NTRACTOR:	\$0.00	\$0.00	\$0.00
DITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
JBTOTAL:	\$0.00	\$0.00	\$0.00



**Design Number 1** 

Printed Date: 3/8/2023 Dist: CSA

WR No. 925017

Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
33	2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$16.10	\$531.30	N
40	2004389	CONDUIT, GALVANIZED 2 IN 10 FT WITH COUP	\$10.85	\$434.00	Υ
16156	2004488	CONDUIT, PVC 2 IN 20 FT BELL END	\$1.93	\$31,181.08	Υ
178	2004507	COUPLING, PVC 2 IN SCH 40 TEMS 13.01	\$1.01	\$179.78	N
88	2004395	ELBOW, 2" 90 DEGREE ,GALVANIZED, 24" MIN	\$56.45	\$4,967.60	N
1	2004394	ELBOW, GALV 2 INCH 45 DEG THD 15" RADIUS	\$44.77	\$44.77	N
3	2004719	HANDHOLE, SPLICING SINGLE PHASE PRIMARY	\$1,408.68	\$4,226.04	Υ
18157	2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$544.70	N
			Total	\$42,109.27	



Distribution Services Primary cable - 2000 Sq Ft

Printed Date: 3/8/2023

District: CSA

WR No. 925022

Date Sched: 3/1/23 Date Required: 3/1/23

Additional Information: URD Low Density 2000 PSC filing WR Description: LDUG 2000 sq ft PRIMARY CABLE

	• • • • • • • • • • • • • • • • • • • •		
INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$54,604.12	\$0.00	\$54,604.12
OVERHEAD:	\$5,487.72	\$0.00	\$5,487.72
	\$60,091.84	\$0.00	\$60,091.84
LABOR HOURS:	249.02	0	249.02
LABOR COST:	\$11,890.59	\$0.00	\$11,890.59
OVERHEAD:	\$17,049.90	\$0.00	\$17,049.90
	\$28,940.49	\$0.00	\$28,940.49
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$89,032.33	\$0.00	\$89,032.33
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$89,032.33	\$0.00	\$89,032.33
	•	T	



**Design Number 1** 

Printed Date: 3/8/2023 Dist: CSA

WR No. 925022

			3 -		
Mate	rial Number	Description	Unit Price	Total Cost	Asset?
INSTALL					
0	2004577	ANCHOR, LEAD EXPANSION, MEDIUM DUTY, SIZ	\$1.30	\$0.00	N
0	2003157	BOLT, 1/2" - 13 X 1-1/2" 18-8 SS HEX HEA	\$2.69	\$0.00	N
0	2003167	BOLT, MACHINE GALV HEX HEAD 5/8 X 1-1/4"	\$0.31	\$0.00	N
17554	2004343	CABLE, ALUMINUM, 15KV, 1/C, 1/0 AWG SOLI	\$2.80	\$49,150.64	Υ
4	2004514	CAP, CONDUIT 2"	\$14.73	\$58.92	N
4	2004453	CAP, END CABLE 600 V CABLE RANGE .940 -	\$2.09	\$8.36	N
4	2003752	CLAMP, CONDUIT GROUND 1-1/4 IN - 2 IN CO	\$9.18	\$36.72	N
0	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$2.65	\$0.00	N
80	2004488	CONDUIT, PVC 2 IN 20 FT BELL END	\$1.93	\$154.40	Υ
8	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$1.20	\$9.60	N
0	2005009	CONNECTOR, LDBRK 8.3/14.4KV 200A 3POS	\$167.61	\$0.00	N
77	2077931	CONNECTOR, VICE CU #2 STR	\$3.59	\$276.43	N
0	2077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$0.00	N
0	2004982	ENCLOSURE, 200A AL SWITCH MOD/1 PH DUMMY	\$1,694.74	\$0.00	Υ
61	2004642	KIT, SEALING, CABLE ACCESSORY, 1/0 - 4/0	\$10.33	\$630.13	N
0	2001315	PAD, CONCRETE 40" X 45" X 4" 25- 50KVA T	\$110.72	\$0.00	N
0	2007394	PADLOCK, GREEN, TESS, BRASS BODY, WR2	\$22.13	\$0.00	N
0	2007489	REPELLENT, FIRE ANT GRANULE 4 OZ BIFENTH	\$3.17	\$0.00	N
0	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$22.38	\$0.00	N
32	2004403	STRAP, GALV 2 IN 2 HOLE	\$0.66	\$21.12	N
61	2004883	TERMINATOR, LOADBREAK 200 AMP, 1/0 SOL	\$63.96	\$3,901.56	Υ
4	2004634	TERMINATOR, POTHEAD, 1/0 TO 4/0, STEM	\$87.06	\$348.24	Υ
0	2078005	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8	\$0.58	\$0.00	N
0	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.34	\$0.00	N
8	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$1.00	\$8.00	N
			Total	\$54,604.12	



Distribution Services Sec Cable and Handholes 2000 sq ft Printed Date: 3/8/2023

District: CSA

WR No. 925024

Date Sched: 3/1/23 Date Required: 3/1/23

Additional Information: URD low density 2000 homes - PSC filing WR Description: LDUG 2000 sq ft SECONDARY CABLE

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$14,372.33	\$0.00	\$14,372.33
OVERHEAD:	\$1,444.43	\$0.00	\$1,444.43
	\$15,816.76	\$0.00	\$15,816.76
LABOR HOURS:	161.28	0	161.28
LABOR COST:	\$7,700.96	\$0.00	\$7,700.96
OVERHEAD:	\$11,042.39	\$0.00	\$11,042.39
	\$18,743.35	\$0.00	\$18,743.35
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$34,560.11	\$0.00	\$34,560.11
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
	*		
SUBTOTAL:	\$0.00	\$0.00	\$0.00



**Design Number 1** 

Printed Date: 3/8/2023 Dist: CSA

WR No. 925024

Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
0	2004351	CABLE, CONVERSE, AL, UG, 600V, 2/C, 2/0,	\$1.51	\$0.00	Υ
2605	2004354	CABLE, SWEETBRIAR, AL, UG, 600V, 2/C, 4/0 AW	\$1.98	\$5,158.30	Υ
0	2004356	CABLE, XHHW-2,AL,UG,600V,2/C,500 MCM, 37	\$5.91	\$0.00	Υ
0	2005021	CONNECTOR, 600V URD, 4 POSITION, CONDUCT	\$24.00	\$0.00	N
0	2005022	CONNECTOR, 600V URD, 6 POSITION, CONDUCT	\$21.66	\$0.00	N
69	2005024	CONNECTOR, 600V URD, 6 POSITION, CONDUCT	\$32.29	\$2,228.01	N
0	2005025	CONNECTOR, 600V, URD, 8 POSITION, CONDUC	\$41.83	\$0.00	N
0	2005020	CONNECTOR, URD 600 V 4 POSITION #10-350M	\$17.60	\$0.00	N
23	2000241	DECAL,WARNING,NOTICE,CLEARANCE,10" X 7"	\$3.53	\$81.19	N
23	2004714	HANDHOLE, ABOVE GRADE, LARGE DOME	\$274.16	\$6,305.68	N
23	2005212	MARKER, CURB LEXAN .040 THICK, ROUND 2.5	\$3.25	\$74.75	N
23	2007395	PADLOCK, RED BRASS BODY 1/4" BRASS SHACK	\$22.80	\$524.40	N
			Total	\$14,372.33	



Distribution Services Secondary conduit-2000 sq ft Printed Date: 3/8/2023

District: CSA

WR No. 925026

Date Sched: 3/1/23 Date Required: 3/1/23

Additional Information: URD low density 2000 sq ft PSC filing WR Description: LDUG 2000 sq ft SECONDARY CONDUIT

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$12,460.77	\$0.00	\$12,460.77
OVERHEAD:	\$1,252.31	\$0.00	\$1,252.31
	\$13,713.08	\$0.00	\$13,713.08
LABOR HOURS:	63.08	0	63.08
LABOR COST:	\$3,011.90	\$0.00	\$3,011.90
OVERHEAD:	\$4,318.77	\$0.00	\$4,318.77
	\$7,330.67	\$0.00	\$7,330.67
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$21,043.75	\$0.00	\$21,043.75
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$21,043.75	\$0.00	\$21,043.75



**Design Number 1** 

Printed Date: 3/8/2023 Dist: CSA

WR No. 925026

			. "9		
Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
1	2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$16.10	\$16.10	N
8	2007228	CEMENT, PVC GRAY MEDIUM DRY QUART W/DAUB	\$16.35	\$130.80	N
0	2004488	CONDUIT, PVC 2 IN 20 FT BELL END	\$1.93	\$0.00	Υ
340	2004517	CONDUIT, PVC P & C 3 IN 20 FT	\$3.06	\$1,040.40	Υ
1871	2004529	CONDUIT, PVC, 4" X 20', DB-60-TC-6	\$5.09	\$9,523.39	Υ
0	2004507	COUPLING, PVC 2 IN SCH 40 TEMS 13.01	\$1.01	\$0.00	N
8	2004521	COUPLING, PVC 3 IN SCH 40 TEMS 13.01	\$8.50	\$68.00	N
84	2004535	COUPLING, PVC 4 IN SCH 40 TEMS 13.01	\$9.20	\$772.80	N
0	2004511	ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-	\$3.55	\$0.00	N
0	2004427	ELBOW, GALV 4 IN 45 DEG THD 16 IN RAD	\$75.61	\$0.00	N
0	2004510	ELBOW, PVC 2 IN 45 DEG 9-1/2 IN RAD SCH	\$2.61	\$0.00	N
0	2004523	ELBOW, PVC 3 IN 45 DEG 13 IN RAD SCH 40	\$9.75	\$0.00	N
4	2004524	ELBOW, PVC 3 IN 90 DEG 13 IN RAD SCH 40	\$10.94	\$43.76	N
42	2004538	ELBOW, PVC 4", 90 DEG., 16" RADIUS, SCHE	\$18.78	\$788.76	N
2559	2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$76.76	N
			Total	\$12,460.77	



Distribution Services Service Cable-2000 sq ft Printed Date: 3/8/2023

District: CSA

WR No. 925028

Date Sched: 3/1/23 Date Required: 3/1/23

Additional Information: Low density URD filing 2000 sq ft WR Description: LDUG 2000 sq ft SERVICE CABLE

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$34,558.74	\$0.00	\$34,558.74
OVERHEAD:	\$3,473.16	\$0.00	\$3,473.16
	\$38,031.90	\$0.00	\$38,031.90
LABOR HOURS:	1.94	0	1.94
LABOR COST:	\$92.70	\$0.00	\$92.70
OVERHEAD:	\$132.92	\$0.00	\$132.92
	\$225.62	\$0.00	\$225.62
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$38,257.52	\$0.00	\$38,257.52
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$38,257.52	\$0.00	\$38,257.52



**Design Number 1** 

**Printed Date: 3/8/2023** Dist: CSA

WR No. 925028

Mat	erial Numbe	r Description	Unit Price	Total Cost	t Asset?
INSTALL					
17795	2004351	CABLE, CONVERSE, AL, UG, 600V, 2/C, 2/0,	\$1.51	\$24,427.27	Υ
3883	2004354	CABLE, SWEETBRIAR, AL, UG, 600 V, 2/C, 4/0 AW	\$1.98	\$6,407.28	Υ
			Total	\$34,558.73	



Distribution Services Meter Labor- 2000 sq ft Printed Date: 3/8/2023

District: CSA

WR No. 925029

Date Sched: 3/1/23 Date Required: 3/1/23

Additional Information: Low density URD filing 2000 sq ft homes

WR Description: LDUG 2000 sq ft METERS

t Description: ED00 20	00 34 IT WIE I E I CO		
INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	42.07	0	42.07
LABOR COST:	\$2,008.84	\$0.00	\$2,008.84
OVERHEAD:	\$2,880.48	\$0.00	\$2,880.48
	\$4,889.32	\$0.00	\$4,889.32
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$4,889.32	\$0.00	\$4,889.32
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$4,889.32	\$0.00	\$4,889.32



Distribution Services Service Conduit- 2000 sq ft Printed Date: 3/8/2023

District: CSA

WR No. 925030

Date Sched: 3/1/23 Date Required: 3/1/23

Additional Information: Low density URD filing for 2000 sq ft homes WR Description: LDUG 2000 sq ft SERVICE CONDUIT

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$53,256.35	\$0.00	\$53,256.35
OVERHEAD:	\$5,352.26	\$0.00	\$5,352.26
	\$58,608.61	\$0.00	\$58,608.61
LABOR HOURS:	767.62	0	767.62
LABOR COST:	\$36,655.30	\$0.00	\$36,655.30
OVERHEAD:	\$52,560.03	\$0.00	\$52,560.03
	\$89,215.33	\$0.00	\$89,215.33
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$147,823.94	\$0.00	\$147,823.94
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$147,823.94	\$0.00	\$147,823.94



**Design Number 1** 

Printed Date: 3/8/2023 Dist: CSA

WR No. 925030

Mater	rial Numbe	r Description	Unit Drice		
		<u> </u>	Unit Price	Total Cost	Asset?
INSTALL					
23	2004492	ADAPTER,COND PVC FMLE 2" SCH 40 SOCXFPT	\$0.57	\$13.11	N
188	2004493	ADAPTOR, 2" PVC, FEMALE SLIP TO MALE THR	\$0.63	\$118.44	N
37	2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$16.10	\$595.70	N
23	2004409	COND,SRVC RISER,TYPE IIPVC,40,2.5"X7'	\$25.27	\$581.21	N
15237	2004488	CONDUIT, PVC 2 IN 20 FT BELL END	\$1.93	\$29,407.41	Υ
2070	2004491	CONDUIT, PVC 2 IN 250 FT ROLL FLEXIBLE	\$2.37	\$4,905.90	N
23	2004518	CONDUIT, PVC 3 IN X 250 FT ROLL FLEXIBL	\$3.92	\$90.16	N
3121	2004517	CONDUIT, PVC P & C 3 IN 20 FT	\$3.06	\$9,550.26	Υ
188	2004401	CONDUIT, SERVICE RISER, PVC, 2"	\$15.60	\$2,932.80	N
754	2004507	COUPLING, PVC 2 IN SCH 40 TEMS 13.01	\$1.01	\$761.54	N
138	2004521	COUPLING, PVC 3 IN SCH 40 TEMS 13.01	\$8.50	\$1,173.00	N
504	2004511	ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-	\$3.55	\$1,789.20	N
0	2004510	ELBOW, PVC 2 IN 45 DEG 9-1/2 IN RAD SCH	\$2.61	\$0.00	N
0	2004523	ELBOW, PVC 3 IN 45 DEG 13 IN RAD SCH 40	\$9.75	\$0.00	N
69	2004524	ELBOW, PVC 3 IN 90 DEG 13 IN RAD SCH 40	\$10.94	\$754.86	N
188	2004396	NUT, LOCK GALV 2 IN	\$0.61	\$114.68	N
23	2004408	NUT, LOCK GALV 2-1/2 IN	\$1.58	\$36.34	N
14391	2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$431.74	N
			Total	\$53,256.35	



#### OH Construction Cost Data Summary Low Density (210-Lot) OH Subdivision Costs

	Α	В	С	D	E	F	G	Н	Ţ	J	K	L	М	N
			(C + M)		(F + L)	(G + H + I)		(G x J x TLF)	(G x K x CLF)				(D x MHR)	(C+E)
		5	Material and		Total Labor		Base	TEC Labor	Contract Labor	TEC	Contractor		Material	
Line #	Work Type/WR #	Description	Handling	Material	Plus Vehicles	Total Labor	Labor	Overheads	Overheads	Work %	Work %	Vehicle	Handling	Total
	<b>-</b> ,													
1	Transformers 925037	Install & Ground Transformers	70,801.87	\$64,336.09	21,644.85	19,203.93	10,467.07	7,540.69	1,196.18	60%	40%	\$2,440.92	6,465.78	92,446.72
2	923037	ilistali & Giourio Transformers	70,001.07	\$04,330.09	21,044.00	19,203.93	10,407.07	7,540.09	1,190.10	00 %	40 /0	\$2,440.92	0,405.76	92,440.72
4	Primary													
5	925038	Install Primary Line	5,332.20	\$4,845.25	11,559.33	10,255.77	5,589.89	4,027.07	638.81	60%	40%	\$1,303.56	486.95	16,891.53
6		includes Grounding Primary Takeoffs												
7	Poles													
8	925039	Install Poles and Guy Stubs	54,108.18	\$49,166.91	68,296.86	60,594.93	33,027.16	23,793.43	3,774.34	60%	40%	\$7,701.93	4,941.27	122,405.05
9		Includes Haul Poles Out												
10	Secondary													
11	925040	Install Secondary Cable	36,947.20	\$33,573.10	39,298.89	34,867.10	19,004.25	13,691.04	2,171.81	60%	40%	\$4,431.79	3,374.10	76,246.09
12 13	Camilana													
13	Services 926547	Install Service Cable & Meters	36,044.46	\$32,752.80	19,610.16	17,398.70	9,483.13	6,831.84	1,083.73	60%	40%	\$2,211.47	3,291.66	55,654.62
15	320041	Ilistali del vice dable di Meters	30,044.40	ψ32,7 32.00	19,010.10	17,550.70	9,400.10	0,031.04	1,000.70	00 /0	4070	ΨΖ,Ζ11.47	3,231.00	33,034.02
16														
17	Engineering	Design/Inspection/Coordination	_	-	13,788.39	13,788.39	-	-	-	100%	0%	-	-	13,788.39
18		• .												
19	Tree Trim		-	-	-	-	-	-	-			-	-	-
20														
21	Totals (Sum of lines	2, 5, 8, 11, 14, 17, and 19)	\$ 203,233.90 \$	184,674.15	\$ 174,198.49	\$ 156,108.82	\$ 77,571.50 \$	55,884.06	\$ 8,864.87			\$ 18,089.67	\$ 18,559.75 \$	377,432.40
22	Cost per Lot	(line 21 / 210 lots)	\$ 967.78		\$ 829.52								\$	1,797.30

Adjustment Factors		
TEC Operations Labor Overhead Factor	TLF =	1.2007
Contractor Labor Overhead Factor	CLF =	0.2857
Current year material handling charge rate	MHR =	0.1005

#### Low Density - 210 Lots - Overhead Material List

This worksheet lists the totals for major materials to be listed on the associated work request print as requested by the PSC.

- 1225.0 Total Connected KVA
- 1258.9 Total peak demand KVA
  - 0 25 kVA Transformers
  - 4 37.5 kVA Transformers
  - 17 50 kVA Transformers
  - 3 75 kVA Transformers
- 10130 #2AAAC Primary
  - 65 Primary Poles
  - 0 2/0 AWG Triplex Secondary
- 8000 4/0 AWG Triplex Secondary
- 2135 #2AAAC Secondary Neutral
- 1515 2-2/0 & 1-1/0 AL Triplex Service Drop (considered secondary)
- 545 2-4/0 & 1-2/0 AL Triplex Service Drop (considered secondary)
- 35 Secondary Poles
- 9360 2-2/0 & 1-1/0 AL Triplex Service Drop
  - 0 2-4/0 & 1-2/0 AL Triplex Service Drop

#### Summary of assemblies (CU's) for Low Density 2000 sq ft Overhead Design - March 2023

Assemblies> POLE HAUL STP101_TAN_40C2 STP101_TAN_45C2 STP401_DE_40C2 STP101_ANG_40C2 STP101_ANG_45C2 STP301_RC_40C2 STP301_RC_40C2 STP301_RC_45C2 STP104_TAN_45C2 PKG31WiH GUYS Total Quantities> 65 12 1 11 20 1 17 1 2 56 2 7	ork Request #1	925037		these Construction Units into										
Total Quantities ⇒ 0 4 1 17 3 24 24 24  Work Request #2    925038   - Primary	112													
Assemblies ===> WIOPA WIOIF WIO1A PRP102WB3A PRP103WA3A PRP105WA4A FLOH103 GRDMEG1/2 Total Quantities ==> 10130 19 43 2 7 2 2 5 5  Work Request #3 Pole haul lo tangent Pole haul lo tangent Pole haul Semblies ===> POLE HAUL STP101 TAN 40C2 STP101 TAN 45C2 STP401 DE 40C2 STP101 ANG 40C2 STP101 ANG 45C2 STP301 RC 40C2 STP301 RC 45C2 STP3			4 4		3									
Assemblies ==> WIOPA WIO1F WIO1A PKP102WB3A PKP101WA3A PKP105WA4A FLOH103 GRDMEGI/2 Total Quantities ==> 10130 19 43 2 7 7 2 2 5 5  Work Request #3 Should be ===> Poles and Guys Assemblies ==> POLE HAUL STP101_TAN_40C2 STP101_TAN_45C2 STP401_DE_40C2 STP101_ANG_40C2 STP101_ANG_45C2 STP301_RC_40C2 STP301_RC_45C2 STP301_RC_45C2 STP301_RC_45C2 STP104_TAN_45C2 PKG13W1H GUYS Total Quantities ==> 65 12 1 11 20 1 17 1 2 5 56 2 7	ork Request #2													
Should be ——> Pole haul lo tangent lo tangent lo beadend lo angle <20 lo angle <20 lo angle >20		WIOPA	WIO1F	WIO1A	PKP102WB3A				GRDMEG1/2					
	semblies ====>	Pole haul POLE_HAUL	lø tangent STP101_TAN_40C2		STP401_DE_40C2	STP101_ANG_40C2		STP301_RC_40C2			PKG12W2H	PKG31W1H	Guy wire GUYSTR3/8 70	Down guy PKG11W1
Work Request #4   925040   - Secondary - From Secondary&Neutral worksheet   2/0   4/0   #2 Neutral   1st span   Add'l   1st span   Add'l   Eyebolt   Eyenut   DE+Bolt	semblies ====>	WIO3SB	4/0 WIO3SC	#2 Neutral WIOPA	WIO1F	WIO1A	WIOCF	WIOCA		SEG1DEN	PKS11W			

Work Request #5	926547	- Services		
Assemblies ==>> Total Quantities ==>	CA2/0TPX	CA4/0TPX	SVLABOR	METERLABOR
	9360	0	0	210



Distribution Services LDOH 2000 sq ft Transformers Printed Date: 3/8/2023

District: CSA

WR No. 925037

Date Sched: 3/1/23 Date Required: 3/1/23

Additional Information: Used for Low Density 2000 sq ft 3.5 ton ac

WR Description: LDOH 2000 sq ft TRANSFORMERS

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$64,336.09	\$0.00	\$64,336.09
OVERHEAD:	\$6,465.77	\$0.00	\$6,465.77
	\$70,801.86	\$0.00	\$70,801.86
LABOR HOURS:	219.24	0	219.24
LABOR COST:	\$10,467.07	\$0.00	\$10,467.07
OVERHEAD:	\$15,008.83	\$0.00	\$15,008.83
	\$25,475.90	\$0.00	\$25,475.90
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$96,277.76	\$0.00	\$96,277.76
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$96,277.76	\$0.00	\$96,277.76



**Design Number 1** 

Printed Date: 3/8/2023 Dist: CSA

WR No. 925037

				1 01 1	
Mate	rial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
24	2003646	ARRESTER, DISTRIBUTION, 10KV, 8.4KV MCOV	\$61.63	\$1,479.12	Υ
24	2077754	BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.67	\$40.08	N
48	2077755	BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.83	\$87.84	N
24	2003690	BRACKET, CUTOUT, ARRESTER & POTHEAD DWG	\$12.39	\$297.36	N
24	2004660	BRACKET,"L" 5-5/8"IN LENGTH FOR MTG CUTO	\$13.38	\$321.12	N
312	2004197	CABLE, HANDCOIL, COPPER, 600V, 2/0 AWG,	\$2.67	\$833.04	N
36	2004199	CABLE, HANDCOIL, COPPER, 600V, 4/0 AWG,	\$4.11	\$147.96	N
24	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$2.65	\$63.60	N
24	2077911	CLAMP, HOT LINE CU TO CU #6 SOL- 2 STR T	\$6.27	\$150.48	N
48	2078000	CLAMP,GND,TRANSFORMER,#10 SOL-#1 STR CU	\$3.93	\$188.64	N
960	2078012	CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$806.40	N
6	2003528	CONNECTOR, 2-BOLT AL MAIN 336-500MCM TAP	\$30.71	\$184.26	N
63	2077839	CONNECTOR, COMPRESSION H-BLOCK ACSR 1/0-	\$0.97	\$61.11	N
24	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$1.20	\$28.80	N
3	2077845	CONNECTOR, COMPRESSION H-BLOCK ACSR 4/0	\$0.89	\$2.67	N
96	2077930	CONNECTOR, VICE CU #4 STR	\$2.57	\$246.72	N
72	2077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$344.16	N
42	2003516	COVER, SNAP-ON SQUEEZON CONNECTOR D DIE	\$0.80	\$33.60	N
24	2003846	CUTOUT, 15KV, 100A FUSE HLDR, 300A UNVRS	\$141.87	\$3,404.88	Υ
17	2077806	FUSE LINK, 10A UNVRSL 100A CUTOUT 23" OA	\$3.83	\$65.11	N
3	2077807	FUSE LINK, 15A UNVRSL 100A CUTOUT 23" OA	\$3.88	\$11.64	N
4	2077805	FUSE LINK, 7A UNVRSL 100A CUTOUT 23" OAL	\$3.79	\$15.16	N
48	2077965	MOULDING, GROUND WIRE, PVC 1/2 IN X 8 FT	\$1.74	\$83.52	N
24	2007368	PROTECTOR, WILD LIFE, SLIP-ON TYPE	\$5.75	\$138.00	N
96	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$22.38	\$2,148.48	N
24	2077767	ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16"	\$6.32	\$151.68	N
24	2077789	SCREW, LAG PILOT POINT 3/8 X 3	\$0.35	\$8.40	N
24	2077812	SPACER, CABLED SECONDARY	\$9.02	\$216.48	N
240	2077997	STAPLE, SECURES 1/2" PVC MOULDING TO WOO	\$0.39	\$93.60	N
24	2077826	STIRRUP, AL BODY & CU BAIL 2-4/0	\$13.15	\$315.60	N
4	2001368	TX,OH,37.5 KVA,7.62/13.2Y,120/240,FR3	\$1,825.44	\$7,301.76	Υ
17	2001369	TX,OH,50 KVA,7.62/13.2Y,120/240,FR3	\$2,140.33	\$36,385.61	Υ
3	2001370	TX,OH,75 KVA,7.62/13.2Y,120/240,FR3	\$2,798.19	\$8,394.57	Υ
120	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.34	\$40.80	N
72	2078014	WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.17	\$12.24	N
76	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$1.00	\$75.60	Ν
240	2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.65	\$156.00	N
			Total	\$64,336.09	



Distribution Services LDOH 2000 sq ft Primary Printed Date: 3/8/2023

District: CSA

WR No. 925038

Date Sched: 3/1/23 Date Required: 3/1/23

Additional Information: Used for 2000 square foot design WR Description: LDOH 2000 sq ft PRIMARY

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$4,845.25	\$0.00	\$4,845.25
OVERHEAD:	\$486.95	\$0.00	\$486.95
	\$5,332.20	\$0.00	\$5,332.20
LABOR HOURS:	117.08	0	117.08
LABOR COST:	\$5,589.89	\$0.00	\$5,589.89
OVERHEAD:	\$8,015.35	\$0.00	\$8,015.35
	\$13,605.24	\$0.00	\$13,605.24
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$18,937.44	\$0.00	\$18,937.44
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$18,937.44	\$0.00	\$18,937.44



**Design Number 1** 

Printed Date: 3/8/2023 Dist: CSA

WR No. 925038

Materia	al Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
5 2	2003646	ARRESTER, DISTRIBUTION, 10KV, 8.4KV MCOV	\$61.63	\$308.15	Υ
9 2	2077739	BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.19	\$28.71	N
7 2	2077754	BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.67	\$11.69	N
2 2	2077780	BOLT, SPOOL, 5/8" X 10", GALV. SINGLE UP	\$5.96	\$11.92	N
5 2	2003681	BRACKET, "L", LIGHTNING ARRESTER 10 KV	\$17.29	\$86.45	N
2 2	2003685	BRACKET, FIBERGLASS STANDOFF VERTICAL16"	\$25.98	\$51.96	Ν
2 2	2004660	BRACKET,"L" 5-5/8"IN LENGTH FOR MTG CUTO	\$13.38	\$26.76	N
18 2	2077818	CLAMP, DEADEND ACSR OR AAC #2-4/0OR .30-	\$14.12	\$254.16	N
5 2	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$2.65	\$13.25	N
16 2	2077911	CLAMP, HOT LINE CU TO CU #6 SOL- 2 STR T	\$6.27	\$100.32	N
10637 2	2004331	CONDUCTOR, BARE OVERHEAD, 2 AWG, AAAC, 7	\$0.22	\$2,340.03	Υ
200 2	2078012	CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$168.00	N
22 2	2077838	CONNECTOR, COMPRESSION H-BLOCK ACSR #2-1	\$0.43	\$9.46	N
16 2	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$1.20	\$19.20	N
10 2	2077930	CONNECTOR, VICE CU #4 STR	\$2.57	\$25.70	N
15 2	2077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$71.70	N
2 2	2003846	CUTOUT, 15KV, 100A FUSE HLDR, 300A UNVRS	\$141.87	\$283.74	Υ
4 2	2077765	DOUBLE-ARMING, GALVANIZED 5/8 "X 12"	\$5.12	\$20.48	N
2 2	2077794	FUSE LINK, 103A UNVRSL 100A CUTOUT 23" O	\$25.25	\$50.50	N
2 2	2077954	INSULATOR, PIN TYPE, 10KV, ANSI CLASS 55	\$6.43	\$12.86	N
2 2	2077952	INSULATOR, SPOOL, ANSI CLASS 53-3, TRANS	\$1.84	\$3.68	N
9 2	2077959	INSULATOR, SUSPENSION, POLYMER, 25KV, AP	\$11.87	\$106.83	N
10 2	2077965	MOULDING, GROUND WIRE, PVC 1/2 IN X 8 FT	\$1.74	\$17.40	N
9 2	2077783	NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	\$2.45	\$22.05	N
20 2	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$22.38	\$447.60	N
7 2	2077789	SCREW, LAG PILOT POINT 3/8 X 3	\$0.35	\$2.45	N
50 2	2077997	STAPLE, SECURES 1/2" PVC MOULDING TO WOO	\$0.39	\$19.50	N
2 2	2077828	STIRRUP, AL BODY & CU BAIL 1/0-397	\$25.73	\$51.46	N
14 2	2077826	STIRRUP, AL BODY & CU BAIL 2-4/0	\$13.15	\$184.10	N
2 2	2003613	TIE, TOP, FORMED WIRE #2 ACSR OR #2 AAAC	\$3.49	\$6.98	N
22 2	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.34	\$7.48	N
4 2	2078014	WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.17	\$0.68	N
67 2	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$1.00	\$67.00	N
20 2	2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.65	\$13.00	N
			Total	\$4,845.25	



Distribution Services LDOH 2000 sq ft - POLES

Printed Date: 3/8/2023

District: CSA

WR No. 925039

Date Sched: 3/1/23 Date Required: 3/1/23

Additional Information: Used for 2000 square foot design

WR Description: LDOH 2000 sq ft POLES

•	<u>'</u>		
INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$49,166.91	\$0.00	\$49,166.91
OVERHEAD:	\$4,941.28	\$0.00	\$4,941.28
	\$54,108.19	\$0.00	\$54,108.19
LABOR HOURS:	691.7	0	691.7
LABOR COST:	\$33,027.16	\$0.00	\$33,027.16
OVERHEAD:	\$47,357.65	\$0.00	\$47,357.65
	\$80,384.81	\$0.00	\$80,384.81
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$134,493.00	\$0.00	\$134,493.00
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$134,493.00	\$0.00	\$134,493.00



**Design Number 1** 

Printed Date: 3/8/2023 Dist: CSA

WR No. 925039

Mate	erial Number	Description	Unit Price	<b>Total Cost</b>	Asset?
INSTALL					
56	2003632	ANCHOR,SCRW GALV 10" WING 1-1/4" ROD 8"	\$87.14	\$4,879.84	N
37	2077739	BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.19	\$118.03	N
114	2077764	BOLT, MACHINE 3/4" X 12", GALV	\$3.38	\$385.32	N
68	2077754	BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.67	\$113.56	N
40	2077753	BOLT, MACHINE 5/8" X 8", GALV.	\$2.45	\$98.00	N
2	2077780	BOLT, SPOOL, 5/8" X 10", GALV. SINGLE UP	\$5.96	\$11.92	N
44	2077755	BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.83	\$80.52	N
4	2003686	BRACKET, FIBERGLASS STANDOFF VERTICAL24"	\$60.74	\$242.96	N
18	2077818	CLAMP, DEADEND ACSR OR AAC #2-4/0OR .30-	\$14.12	\$254.16	N
19	2003508	CLAMP, SUSPENSION AL ANGLE RANGE .50 TO	\$15.94	\$302.86	N
40	2077924	CLEVIS, STEEL LESS INSULATOR 5/8 IN PIN	\$17.38	\$695.20	N
315	2078012	CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$264.60	N
60	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$1.20	\$72.00	N
63	2077930	CONNECTOR, VICE CU #4 STR	\$2.57	\$161.91	N
4	2077765	DOUBLE-ARMING, GALVANIZED 5/8 "X 12"	\$5.12	\$20.48	N
56	2003636	EXTENSION ROD, ANCHOR 1-1/4 X 72 6 FT	\$97.35	\$5,451.60	N
36	2077901	FIBERGLASS RIDGE-PIN	\$45.52	\$1,638.72	N
226	2077949	GRIP,GUY,FORMED WIRE DEADEND,3/8"EHS	\$2.80	\$632.80	N
37	2077862	GUARD, LINE #2 ACSR & AAAC STR 6/1, 7	\$2.46	\$91.02	N
114	2077951	HOOK, GUY	\$3.49	\$397.86	N
40	2077954	INSULATOR, PIN TYPE, 10KV, ANSI CLASS 55	\$6.43	\$257.20	N
2	2077952	INSULATOR, SPOOL, ANSI CLASS 53-3, TRANS	\$1.84	\$3.68	N
58	2077961	INSULATOR, STRAIN FIBERGLASS 36 IN 15,00	\$30.48	\$1,767.84	N
37	2077959	INSULATOR, SUSPENSION, POLYMER, 25KV, AP	\$11.87	\$439.19	N
56	2077979	MARKER, GUY WIRE PLASTIC 8' IN LENGTH CO	\$6.40	\$358.40	N
60	2002857	POLE, WOOD, 40FT CLASS 2, CCA TREATED	\$397.18	\$23,830.80	Υ
5	2002858	POLE, WOOD, 45 FT CLASS 2, CCA TREATED.	\$454.68	\$2,273.40	Υ
31	2077767	ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16"	\$6.32	\$195.92	N
114	2077790	SCREW, LAG 1/2" X 4", GALV., TWIST DRIVE	\$0.47	\$53.58	N
71	2077812	SPACER, CABLED SECONDARY	\$9.02	\$640.42	N
21	2003612	TIE, PREFORMED SIDE TIE #2 ACSR OR #2 A	\$6.26	\$131.46	N
19	2003613	TIE, TOP, FORMED WIRE #2 ACSR OR #2 AAAC	\$3.49	\$66.31	N
114	2078003	WASHER, CURVED GALVANIZED, 3-1/4"X 3-1/4	\$2.69	\$306.66	N
221	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.34	\$75.14	N
217	2078014	WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.17	\$36.89	N
4774	2005879	WIRE,GUY,EHS STEEL,GALV,3/8",15.4K RBS	\$0.59	\$2,816.66	N
			Total	\$49,166.91	



Distribution Services LDOH 2000 sq ft Secondary Printed Date: 3/8/2023

District: CSA

WR No. 925040

Date Sched: 3/1/23 Date Required: 3/1/23

Additional Information: Used for 2000 sq ft 3.5 TON AC design

WR Description: LDOH 2000 sq ft SECONDARY

•			
INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$33,573.10	\$0.00	\$33,573.10
OVERHEAD:	\$3,374.10	\$0.00	\$3,374.10
	\$36,947.20	\$0.00	\$36,947.20
LABOR HOURS:	397.97	0	397.97
LABOR COST:	\$19,004.25	\$0.00	\$19,004.25
OVERHEAD:	\$27,250.20	\$0.00	\$27,250.20
	\$46,254.45	\$0.00	\$46,254.45
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$83,201.65	\$0.00	\$83,201.65
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
	0	0	0
LABOR HOURS:	0	0	0
LABOR COST: OVERHEAD:	\$0.00	\$0.00	\$0.00
OVERNIEND.	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$83,201.65	\$0.00	\$83,201.65



**Design Number 1** 

Printed Date: 3/8/2023 Dist: CSA

WR No. 925040

				1 01 1	
Mate	rial Number	Description	Unit Price	Total Cost	Asset?
INSTALL					
8	2003632	ANCHOR,SCRW GALV 10" WING 1-1/4" ROD 8"	\$87.14	\$697.12	N
34	2077739	BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.19	\$108.46	N
24	2077764	BOLT, MACHINE 3/4" X 12", GALV	\$3.38	\$81.12	N
8	2077755	BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.83	\$14.64	N
8400	2004339	CABLE, OVERHEAD SECONDARY, TRIPLEX, 4/0	\$1.97	\$16,548.00	Υ
1591	2004364	CABLE, SERVICE DROP AL 2-2/0 & 1-1/0 NEU	\$1.41	\$2,243.03	Υ
627	2004366	CABLE, SERVICE DROP AL 2-4/0 & 1-2/0 NEU	\$2.00	\$1,253.60	Υ
64	2077818	CLAMP, DEADEND ACSR OR AAC #2-4/0OR .30-	\$14.12	\$903.68	N
2242	2004331	CONDUCTOR, BARE OVERHEAD, 2 AWG, AAAC, 7	\$0.22	\$493.20	Υ
192	2077839	CONNECTOR, COMPRESSION H-BLOCK ACSR 1/0-	\$0.97	\$186.24	N
30	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$1.20	\$36.00	N
30	2077931	CONNECTOR, VICE CU #2 STR	\$3.59	\$107.70	N
128	2003516	COVER, SNAP-ON SQUEEZON CONNECTOR D DIE	\$0.80	\$102.40	Ν
8	2003636	EXTENSION ROD, ANCHOR 1-1/4 X 72 6 FT	\$97.35	\$778.80	Ν
32	2077949	GRIP,GUY,FORMED WIRE DEADEND,3/8"EHS	\$2.80	\$89.60	N
24	2077951	HOOK, GUY	\$3.49	\$83.76	Ν
16	2077961	INSULATOR, STRAIN FIBERGLASS 36 IN 15,00	\$30.48	\$487.68	Ν
8	2077979	MARKER, GUY WIRE PLASTIC 8' IN LENGTH CO	\$6.40	\$51.20	N
46	2077783	NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	\$2.45	\$112.70	Ν
0	2002836	POLE, WOOD 30 FT CLASS 6 CCA TREATED NO	\$112.95	\$0.00	Υ
35	2002842	POLE, WOOD, 35 FT, CLASS 4, CCA TREATED.	\$212.82	\$7,448.70	Υ
35	2077767	ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16"	\$6.32	\$221.20	Ν
24	2077790	SCREW, LAG 1/2" X 4", GALV., TWIST DRIVE	\$0.47	\$11.28	Ν
35	2077812	SPACER, CABLED SECONDARY	\$9.02	\$315.70	Ν
24	2078003	WASHER, CURVED GALVANIZED, 3-1/4"X 3-1/4	\$2.69	\$64.56	Ν
108	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.34	\$36.72	Ν
105	2078014	WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.17	\$17.85	Ν
60	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$1.00	\$60.00	Ν
1726	2005879	WIRE,GUY,EHS STEEL,GALV,3/8",15.4K RBS	\$0.59	\$1,018.34	Ν
			Total	\$33,573.09	



Distribution Services LDOH 2000 sq ft SERVICE

Printed Date: 3/8/2023

District: CSA

WR No. 926547

Date Sched: 3/1/23 Date Required: 3/1/23

Additional Information: Used for 2000 square foot design WR Description: LDOH 2000 sq ft SERVICE

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$13,878.00	\$0.00	\$13,878.00
OVERHEAD:	\$1,394.74	\$0.00	\$1,394.74
	\$15,272.74	\$0.00	\$15,272.74
LABOR HOURS:	198.6	0	198.6
LABOR COST:	\$9,483.13	\$0.00	\$9,483.13
OVERHEAD:	\$13,597.86	\$0.00	\$13,597.86
	\$23,080.99	\$0.00	\$23,080.99
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$38,353.73	\$0.00	\$38,353.73
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$38,353.73	\$0.00	\$38,353.73



**Design Number 1** 

**Printed Date: 3/8/2023** Dist: CSA

WR No. 926547

Ма	aterial Numbe	r Description	Unit Price	Total Cost	Asset?
INSTALL					
9828	3 2004364	CABLE, SERVICE DROP AL 2-2/0 & 1-1/0 NEU	\$1.41	\$13,857.48	Υ
C	2004366	CABLE, SERVICE DROP AL 2-4/0 & 1-2/0 NEU	\$2.00	\$0.00	Υ
2	2 2003770	CLAMP, MID SPAN ALUMINUM 1/4 IN - 1/2 IN	\$10.26	\$20.52	N
			Total	\$13,878.00	

### HIGH DENSITY MODEL (176 lots)

### **Underground Costs (per lot)**

	MATER	IAL	LABO	DR .	тоти	<b>NL</b>	
ITEM	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE	EXPLANATION OF % CHANGE
SERVICE	434.33	50.64%	276.32	6.01%	710.65	29.45%	Underground material up, TEC & Contractor overhead up
PRIMARY	211.54	52.99%	71.42	16.81%	282.96	41.90%	Underground material up, TEC & Contractor overhead up
SECONDARY	124.87	59.80%	82.15	16.82%	207.02	39.44%	Underground material up, TEC & Contractor overhead up
TRANSFORMERS	541.68	102.69%	94.18	36.95%	635.86	89.23%	Underground material up, TEC & Contractor overhead up
TRENCHING							
PRIMARY & SECONDARY			430.48	145.96%	430.48	145.96%	Contractor rates for primary & secondary trenching up
SERVICES			591.44	86.04%	591.44	86.04%	Contractor rates for service trenching up
SUB-TOTAL	1,312.42	70.00%	1,545.99	62.08%	2,858.41	65.63%	
STORES HANDLING	131.90	39.81%			131.90	39.81%	Higher material costs produces higher handling costs
SUB-TOTAL	1,444.32	66.72%	1,545.99	62.08%	2,990.31	64.29%	
ENGINEERING			61.28	0.00%	61.28	0.00%	
TOTAL	1,444.32	66.72%	1,607.27	58.34%	3,051.59	62.20%	
					1,207.69		t Value of the Life Cycle Operational Cost Including oration and Lost Pole Attachment Revenue
Total with NPV Factor					4,259.28 Total Including NPV of Operational Cost		ling NPV of Operational Cost

4/2023

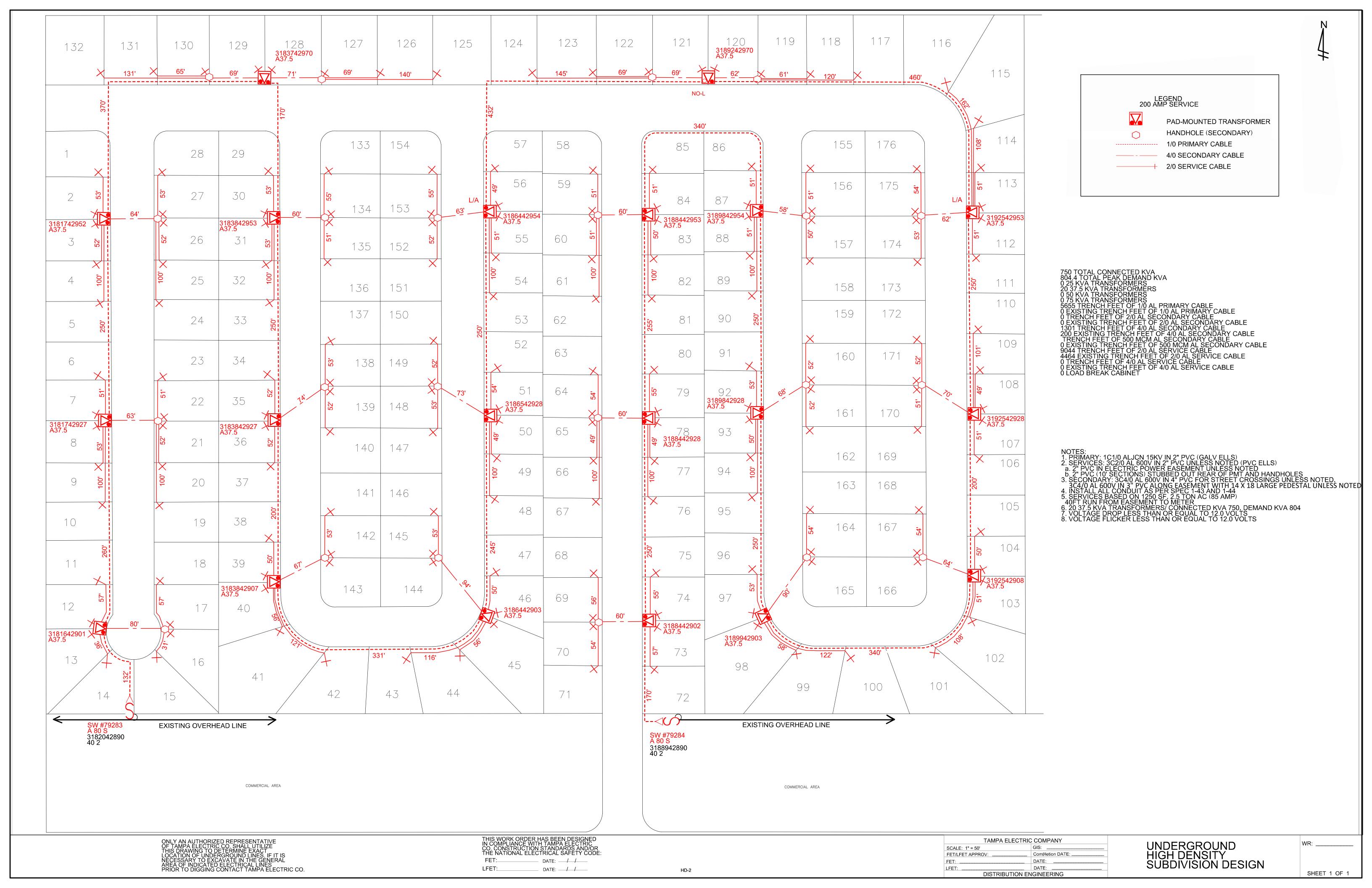
### Overhead Costs (per lot)

	MATERIAL		LABOR		TOTA	<b>AL</b>		
ITEM	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE	EXPLANATION OF % CHANGE	
SERVICE	166.77	17.25%	106.50	15.98%	273.27	16.75%	Material up, Labor up	
PRIMARY	18.77	45.73%	41.08	16.80%	59.85	24.56%	Material up, Labor up	
SECONDARY	96.44	49.75%	124.24	16.81%	220.68	29.23%	Material up, Labor up	
INITIAL TREE TRIM			0.00		0.00			
POLES	175.26	53.78%	240.10	16.81%	415.36	29.99%	Material up, Labor up	
TRANSFORMERS	230.91	46.44%	82.08	16.81%	312.99	37.31%	Material up, Labor up	
SUB-TOTAL	688.15	40.10%	594.00	16.66%	1,282.15	28.17%		
STORES HANDLING	69.16	15.23%			69.16	15.23%	Higher material costs produces higher handling costs	
SUB-TOTAL	757.31	37.40%	594.00	16.66%	1,351.31	27.44%		
ENGINEERING			61.28	0.00%	61.28	0.00%		
TOTAL	757.31	37.40%	655.28	14.87%	1,412.59	25.94%		
					3,656.43		t Value of the Life Cycle Operational Cost Including oration and Lost Pole Attachment Revenue	
Total with NPV Factor					5,069.02 Total Including NPV of Operational Cost			

### Differential Costs (per lot)

	MATER	RIAL	LABO	)R	TOTAL		
ITEM	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE	
Differential (per lot)	687.01	118.00%	951.99	114.10%	1,639.00	115.72%	
NPV amount					-2,448.74		
Differential <sup>1</sup> (per lot)	ntial <sup>1</sup> (per lot)				-809.74	1150.37%	

<sup>&</sup>lt;sup>1</sup> Includes NPV of Operational Cost



#### **UG Construction Cost Data Summary**

High Density (176-Lot) UG Subdivision Costs

	Α	В	C (D+ M) Material and	D	E (F + L) Total Labor	F (G + H + I)	G Base	H (G x J x TLF) Operations Labor	I (G x K x CLF) Contract Labor	J TEC	K Contractor	L	M (D x MHR) Material	N (C+E)
Line #	Work Type/WR #	Description	Handling	Material	Plus Vehicles	Total Labor	Labor	Overheads	Overheads	Work %	Work %	Vehicle	Handling	Total
1	Transformers													
2	925091	Install Transformer	102,630.67	\$93,258.22	6,894.42	6.116.93	\$3,334.02	2,401.89	381.01	60%	40%	\$777.49	9,372.45	109,525.09
3	925095	Ground Transformer	2,285.96	\$2,077.20	3,209.32	2,847.40	\$1,551.97	1,118.07	177.36	60%	40%	\$361.92	208.76	5,495.28
4	Contractor	Prepare Pad Site	-	-	6,472.60	6,472.60	\$5,034.30	-	1,438.30	0%	100%	-	-	6,472.60
5			104,916.63	95,335.42	16,576.34	15,436.93	9,920.29	3,519.96	1,996.67			1,139.41	9,581.21	121,492.97
6	Primary		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	.,.	.,.	,			,	.,	,
7	925096	Primary Line - OH-UG Takeoffs	980.22	\$890.70	829.33	735.81	\$401.05	288.92	45.83	60%	40%	\$93.52	89.52	1,809.55
8	925097	Ground OH to UG Take-offs	228.60	\$207.72	370.69	328.89	\$179.26	129.14	20.49	60%	40%	\$41.80	20.88	599.29
9	925098	Primary Conduit (Material Only)	16,632.23	\$15,113.34	-	-	-	-	-			-	1,518.89	16,632.23
10	925100	Primary Cable	23,131.23	\$21,018.84	11,369.50	10,087.35	\$5,498.09	3,960.93	628.32	60%	40%	\$ <u>1,282.15</u>	2,112.39	34,500.73
11			40,972.28	37,230.60	12,569.52	11,152.04	6,078.40	4,379.00	694.64			1,417.48	3,741.68	53,541.80
12	Secondary													
13	925103	Secondary Cable	13,400.52	\$12,176.76	14,457.58	12,827.18	\$6,991.43	5,036.77	798.98	60%	40%	\$1,630.40	1,223.76	27,858.10
14	925104	Secondary Conduit (Material Only)	10,785.55	\$9,800.59									984.96	10,785.55
15			24,186.07	21,977.35	14,457.58	12,827.18	6,991.43	5,036.77	798.98			1,630.40	2,208.72	38,643.65
16	Service													
17	925106	Service Cable	26,748.44	\$24,305.72	45,149.16	45,149.16	\$35,116.40	-	10,032.76	0%	100%	-	2,442.72	71,897.60
18	925108	Set Meters	17,408.68	\$15,818.88	3,482.63	3,089.89	\$1,684.14	1,213.29	192.46	60%	40%	\$392.74	1,589.80	20,891.31
19	925110	Service Conduit (Material Only)	39,966.44	\$36,316.62									3,649.82	39,966.44
20			84,123.56	76,441.22	48,631.79	48,239.05	36,800.54	1,213.29	10,225.22			392.74	7,682.34	132,755.35
21	Trenching													
22	Contractor	Primary Trenching	-	-	53,511.86	53,511.86	\$41,620.80	-	11,891.06	0%	100%	-	-	53,511.86
23	Contractor	Secondary Trenching	-	-	13,406.52	13,406.52	\$10,427.41	-	2,979.11	0%	100%	-	-	13,406.52
24	TEC Inspection	for Primary			8,846.62	8,385.42	\$8,385.42			0%	0%	\$ <u>461.20</u>		8,846.62
25			-	-	75,765.00	75,303.80	60,433.63	-	14,870.17			461.20	-	75,765.00
26														
27	Contractor	Svc Trenching Pri. Prop	-	-	52,271.42	52,271.42	\$40,656.00	-	11,615.42	0%	100%	-	-	52,271.42
28	Contractor	Svc Trenching Rts-of-Wy	-	-	43,652.91	43,652.91	\$33,952.64	-	9,700.27	0%	100%	-	-	43,652.91
29	TEC Inspection	for Service			8,169.92	7,744.00	\$ <u>7,744.00</u>			0%	0%	\$ <u>425.92</u>		8,169.92
30			-	-	104,094.25	103,668.33	82,352.64	-	21,315.69			425.92	-	104,094.25
31														
32 33	Engineering	Design/Inspection/Coordination	-	-	10,785.62			-	-			-	-	10,785.62
34	Totals (Sum of lines	5, 11, 15, 20, 25, 30, and 32)	254,198.54		282,880.10	266,627.32	202,576.93	14,149.02	49,901.37			5,467.16	23,213.95	537,078.65
35	Cost "Per Lot" (Line 3	34/ 176 lots)	1,444.31		1,607.27									3,051.58

Adjustment Factors		
TEC Labor Overhead Factor (excludes engineering)	TLF =	1.2007
Contractor Labor Overhead Factor	CLF =	0.2857
Current year material handling charge rate	MHR =	0.1005

### High Density - 176 lot - Contractor Labor - Underground Estimate

Pad site preparation	Total	Prepare pad site (Primary Contractor Labor Costs)           Total         Cost         Pad sites           \$2,876.20         \$143.81         20
		Primary Trenching & Conduit (Primary Contractor Labor Costs)
		Total Cost Feet
		\$11,762.40 \$2.08 5655 Trenching Cost
		\$2,884.05  \$0.51  5655  Conduit Installation - 2"  50.00  5655  Pull-tape Installation (used exact length for labor cost not 5% extra)
Primary Trenching	Total	\$14,646.45
		Secondary Trenching & Conduit (Primary Contractor Labor Costs)
		Total Cost Feet
		\$2,706.08
		\$0.00 \$0.51 0 Conduit Installation - 2" \$149.05 \$0.55 271 Conduit Installation - 3"
		\$787.20 \$0.64 1230 Conduit Installation - 4"
		\$0.00 \$0.00 1501 Pull-tape Installation (used exact length not 5% extra)
Secondary Trenching	Total	\$3,642.33
		Service Trenching & Conduit (Primary Contractor Labor Costs)
		Total Cost Feet
		\$7,829.12 \$2.08 3764 Trenching feet required for 2" service conduit \$0.00 \$2.08 0 Trenching feet required for 3" service conduit
		\$0.00 \$2.08 0 Trenching feet required for 3" service conduit  \$4.196.28 \$0.51 8228 Conduit Installation - 2"
		\$4,190.26 \$0.55 0 Conduit Installation - 3"
		\$0.00 \$0.00 8228 Pull-tape Installation (used exact length not 5% extra)
Svc Trenching Rts-of-Wy	Sub-total	\$12,025.40
		Service Trenching & Conduit on Private Property (Service Contractor Labor Costs)
		Total Cost Feet
Svc Trenching Pri. Prop	Sub-total	\$27,772.80 \$5.26 5280 Trenching feet and conduit = 30ft x 176
		Service Cable (Service Contractor Labor Costs)
	Cub total	Total Cost Feet \$35,727.12 \$2.34 15268 Installing 2/0 or 4/0 Cable in existing conduit
Service Cable Labor Service Labor	Total	\$35,727.12  \$2.34  15268 Installing 2/0 or 4/0 Cable in existing conduit  \$75,525.32
Gervice Labor	Total	
		Inspection (TECO Labor Cost)
		TEC Labor TEC Labor TEC Vehicle TEC Vehicle
		Total Rate Feet/Qty Rate Total Inspection costs for Primary Contractor (TECO Labor Cost)  \$4,423.47 \$88.00 5655 \$4.84 \$243.29 Primary Inspection chg = (mach. trnch ft / 900 ft per day)*(8 hr/day)*Contractor rate
		\$1,017.67 \$88.00 1301 \$4.84 \$55.97 Secondary Inspection chg = (mach. trnch ft / 900 ft per day)*(8 hr/day)*Contractor rate
		\$2,944.28 \$88.00 3764 \$4.84 \$161.94 Service ROW Inspection chg = (machine trench ft / 900 ft per day)*(8 hr/day)*Contractor rate
	Sub-total	\$8,385.42 \$461.20
		TEC Labor TEC Labor TEC Vehicle TEC Vehicle
		Total Rate Feet/Qty Rate Total Inspection costs for Service Contractor (TECO Labor Cost)
	0	\$7,744.00  \$88.00  176  \$2.42  \$425.92  Service Private Property Inspection = .5hr x # of lots x rate
	Sub-total	\$7,744.00 \$425.92

### High Density - 176 Lots - Underground Material List

This worksheet lists the totals for major materials to be listed on the associated work request print as requested by the PSC.

- 750 Total Connected KVA
- 804 Total peak demand KVA
  - 0 25 kVA Transformers
- 20 37.5 kVA Transformers
  - 0 50 kVA Transformers
  - 0 75 kVA Transformers
- 5655 Trench Feet of 1/0 AL Primary Cable
  - 0 Existing trench feet of 1/0 AL Primary Cable
  - 0 Trench Feet of 2/0 AL Secondary Cable
  - 0 Existing trench feet of 2/0 AL Secondary Cable
- 1301 Trench Feet of 4/0 AL Secondary Cable
- 200 Existing trench feet of 4/0 AL Secondary Cable
  Trench Feet of 500 MCM AL Secondary Cable
  - 0 Existing trench feet of 500 MCM AL Secondary Cable
- 9044 Trench Feet of 2/0 AL Service Cable
- 4464 Existing trench feet of 2/0 AL Service Cable
  - 0 Trench Feet of 4/0 AL Service Cable
  - 0 Existing trench feet of 4/0 AL Service Cable
  - 0 Load Break Cabinet

#### Notes:

- 1. 1250 SF Homes
- 2. 2.5 Ton AC Units
- 3. 40' Service run from property corner to meter location
- 4. Voltage drop less than or equal to 12.0 volts
- 5. Voltage flicker less than or equal to 12.0 volts

Work Request <u>Number</u>

0 wiu1f

	925091			
Qty	CU	Definition	Total Connected K	<u>/A</u>
0	pku51a3n	25 kva, 6 tap 250mcm	0	
0	pku51c3n	25 kva, 8 tap 250mcm	0 0	
0	pku51a4n	37.5 kva, 6 tap 250mcm	0 0	
0	pku51b4n	37.5 kva, 6 tap 500mcm	0 0	
0	pku51c4n	37.5 kva, 8 tap 250mcm	0 0	
20	pku51d4n	37.5 kva, 8 tap 500mcm	750 750	
0	pku51a5n	50 kva, 6 tap 250mcm	0 750	
0	pku51b5n	50 kva,6 tap 500mcm	0 750	
0	pku51c5n	50 kva,8 tap 250mcm	0 750	
0	pku51d5n	50 kva,8 tap 500mcm	0 750	
0	pku51a6n	75 kva, 6 tap 250mcm	0 750	
	pku51b6n	75 kva, 6 tap 500mcm	0 750	
0	pku51c6n	75 kva,8 tap 250mcm	0 750	
	pku51d6n	75 kva, 8 tap 500mcm	0 750	
1	bushcover	Cover hot Tx bushing - at open position on loop	o tx, or at radial Tx	
1	bushdummy	Parking bushing at normal open tx in loop		
	Work Request			
	Number	Ground Pad Mounted Tx - Material	CUs	
	925095	Ground Fad Modifical FA Matorial	<del>555</del>	
Qty	CU	Definition		
20	grdmeg1/2	meggar ground, drive rods, 1 location, 1/2" rods	S	
	Work Boarson			
	Work Request			
	Number	Primary Overhead - Material CUs		
	925096			
Qty	CU	Definition		
2	PKE601WF1B	TEC material & labor to frame termina	al pole CO & LA	
2	FLOH103	Fuse		
	Work Poguest			
	Work Request Number			
		Maggar Cround at Tarminal Dala		
	925097	Meggar Ground at Terminal Pole		
Qty	CU	Definition		
2	grdmeg1/2	meggar ground, drive rods, 1 location, 1/2" rod	S	
		hing - Labor Only - Done By Contractors		
٠.		nine contractor labor cost on the Contractor Lab	or worksheet	
Qty	CU	Definition		
	-	required for 2" primary conduit		
	-	feet used for 2" primary conduit		
5655	Install Pulling	ape (blow in tape for pull - trench feet used to o	determine contractor co	ost)
	Work Request			
	<u>Number</u>	Primary Cable		
	925100			
•	•••	B # W		
Qty	CU pku46uf	Definition	onn wood rele	70
	pku16wf	pothead, 38' 1c 1/0AL cable, 20' pvc, ground co	onn, wood pole	76
	pku11f	safebreak, 5' 1c 1/0AL cable, ground conn	ti	200
	pku31p3	switch cubicle(lbc) 1ph, 200a deadfront, 3 posi		
	pku31p4	switch cubicle(lbc) 1ph, 200a deadfront, 4 positional fault indicator, 1 ph 1/0 4/0 above grade, 400a	uon w/pad, grnd	
	fault1pa	fault indicator, 1ph 1/0-4/0 above grade, 400a	_	056
5655	CA1/0CN1CAL	cable, 1/0AL concentric neutral 15kV includes	apor - round up to ac	6524.1

**Transformer Material CUs** 

labor to pull ug cable in conduit

**Work Request** 

Number Primary Conduit - Material Only

925098 Material used by contractors to install the conduit system

CU Definition Qty 20 5512000 Conduit, galvanized 2", 10' with coupling, for up terminal pole 5875 5522000 2" conduit Pulling tape - actual length 2" elbow 90 galv 9.5" radius 6095 5853530 48 5512220 8 5512210 2" elbow 45 galv 9.5" radius Coupling, 2" PVC (2 per elbow) 112 5522180 12 gluecondf 2"&3" pvc 1 qt for 500' fast dry

#### Secondary Trenching - Labor Only - Done By Contractors

Used to determine contractor labor cost on the Contractor Labor worksheet

#### Qty CU Definition

- 0 Trenching feet required for 2" secondary conduit
- 0 Existing trench feet used for 2" secondary conduit
- 71 Trenching feet required for 3" secondary conduit
- 200 Existing trench feet used for 3" secondary conduit
- 1230 Trenching feet required for 4" secondary conduit
  - 0 Existing trench feet used for 4" secondary conduit
- 1501 Install Pulling Tape (blow in tape for pull trench feet used to determine contractor cost)

### **Work Request**

Number

925103

#### **Secondary Cable & Hand Holes**

Qty	CU	Definition	
(	) wiu3sb	2c 2/0 1c 1 neutral, 600 v - added 5% here	
1691	CA4/0INS3CA	2c 4/0 1c 2/0 neutral, 600v includes labor - added 5% here	2029.2
(	) wiu3sn	2c 500 1c 350 neutral, 600v - added 5% here	
(	) insbus350/4	crab 4 position up to 350mcm	
(	) insbus350/6	crab 6 position up to 350mcm	
(	insbus500/4	crab 4 position up to 500mcm	
66	insbus500/6	crab 6 position up to 500mcm	
(	insbus500/8	crab 8 position up to 500mcm	
(	) wiu1f	labor to pull ug cable in conduit	
22	2 svhottx	energize ug secondary in transformer	
22	2 svhothh	energize ug secondary in hand hole	

22 HH LARGE PE secondary h/h 14"x18" large pedestal, 5 to 7 2/0 or 4/0 svc w/ 4/0 or 500 sec (any time 500 used

secondary h/h 12"x20", 3 or 4 2/0 or 4/0 svc w/ 2/0 or 4/0 sec

### **Work Request**

Number Secondary Conduit - Material Only

925104 Material used by contractors to install the conduit system

Qty	CU	Definition
0	5522000	2" conduit sched A bell end
291	5523000	3" conduit sched A bell end
1410	5524000	4" conduit sched A bell end
1901	5853530	Pulling tape, plus adding 5% extra here
0	5522220	2" elbow 90 PVC 9.5" radius
0	5522210	2" elbow 45 PVC 9.5" radius
8	5523220	3" elbow 90 PVC 13" radius
0	5523210	3" elbow 45 PVC 13" radius
36	5524220	4" elbow 90 PVC 16" radius
0	5514300	4" elbow 90 galv 30" radius
0	5514210	4" elbow 45 galv 16" radius
0	5522180	Coupling, 2" PVC (2 per elbow)
16	5523180	Coupling, 3" PVC (2 per elbow)
72	5524180	Coupling, 4" PVC (2 per elbow)
1	gluecondf	2"&3" pvc 1 qt for 500' fast dry
6	gluecondm	4"& 6" pvc 1 qt for 250' medium dry

### Work Request Number 925108 Set Meter Definition Qty CU 176 meterlabor 176 1900006 meter, kwh 30a 240v Qty CU Definition 176 Number of 2/0 services

### Service Trenching - Labor Only - Done By Contractors

Used to determine contractor labor cost on the Contractor Labor worksheet

5280 Trenching feet for 2" service conduit on private property-service contractor

1760 Trenching feet for 10' stub of 2" service conduit installed by primary contractor

2004 Trenching feet for 2" service conduit installed by primary contractor

4464 Existing trench feet used for 2" service conduit installed by primary contractor

8228 Install Pulling Tape for 2" conduit (blow in tape for pull - Primary Contractor)

- 0 Trenching feet for 3" service conduit on private property-service contractor
- 0 Trenching feet for 10' stub of 3" service conduit installed by primary contractor
- 0 Trenching feet for 3" service conduit installed by primary contractor
- 0 Existing trench feet used for 3" service conduit installed by primary contractor
- 0 Install Pulling Tape for 3" conduit (blow in tape for pull Primary Contractor)

#### 13508

#### 1760 Work Request

15268 Number Service Cable Material Only

925106 Material used by contractors to install the conduit system

Qty CU Definition

2c 2/0 & 1c 1 neutral, 600 v service cable 15268 wiu3sb 16031.4 0 wiu3sc 2c 4/0 & 1c 2/0 neutral, 600 v service cable

#### Work Request

15268 Service Conduit Material Only Number

> 925110 Material used by contractors to install the conduit system

#### Qty CU Definition

5280 Conduit for 2" service on private property-service contractor

3520 Conduit for 10' stub of 2" service installed by primary contractor

6468 Conduit for 2" service installed by primary contractor

11748 Pulling Tape installed in 2" conduit by Primary Contractor)

#### 15268 5522000 Total 2" conduit for work order quantity 448 5522220 2" elbow 90 PVC 9.5" radius 0 5522210 2" elbow 45 PVC 9.5" radius 176 5512260 2" galvanized Lock Nut 2" Flexible PVC conduit 176 5522030 2" PVC Adapter, male thread/female slip 176 5522050 2" PVC Service Riser 176 5512370 896 5522180 Coupling, 2" PVC (2 per elbow)

- 0 Conduit for 3" service on private property-service contractor
- 0 Conduit for 10' stub of 3" service installed by primary contractor
- 0 Conduit for 3" service installed by primary contractor

<ol><li>Pulling Tape in</li></ol>	nstalled in 3" conduit by Primary Contractor)
0 5523000	Total 3" conduit for work order quantity
0 5523220	3" elbow 90 PVC 13" radius
0 5523210	3" elbow 45 PVC 13" radius
0 5512770	2-1/2" house riser
0 5523220	3" elbow 90 PVC 13" radius at house riser

2-1/2" galvanized Lock Nut Used by contractors to install conduit system 0.5512670

0 5523030 3" Flexible PVC conduit

2-1/2"PVC Adapter, male thread/female slip 0 5521000

0 5523180 Coupling, 3" PVC (2 per elbow) 2"&3" pvc 1 qt for 500' fast dry 31 gluecondf

11748 5853530 **Total Pulling Tape installed in conduit by Primary Contractor)** 



**Contact Name:** Tampa Electric

Distribution Services **HDUG Transformers** 

Printed Date: 3/8/2023

District: CSA

WR No. 925091

Date Sched: 3/1/23 Date Required: 3/1/23

### **Additional Information:**

WR Description: HDUG 1250 sq ft TRANSFORMERS

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$93,258.22	\$0.00	\$93,258.22
OVERHEAD:	\$9,372.45	\$0.00	\$9,372.45
	\$102,630.67	\$0.00	\$102,630.67
LABOR HOURS:	69.84	0	69.84
LABOR COST:	\$3,334.02	\$0.00	\$3,334.02
OVERHEAD:	\$4,780.65	\$0.00	\$4,780.65
	\$8,114.67	\$0.00	\$8,114.67
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$110,745.34	\$0.00	\$110,745.34
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$110,745.34	\$0.00	\$110,745.34



**Design Number 1** 

Printed Date: 3/8/2023 Dist: CSA

WR No. 925091

Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
1	2004816	BUSHING, PARKING, 15KV, INSULATED	\$62.66	\$62.66	N
20	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$2.65	\$53.00	N
40	2078000	CLAMP,GND,TRANSFORMER,#10 SOL-#1 STR CU	\$3.93	\$157.20	N
2	2077931	CONNECTOR, VICE CU #2 STR	\$3.59	\$7.18	N
1	2004817	COVER, BUSHING 15 KV PDMT EQUIP W/FLEXIB	\$30.69	\$30.69	N
20	2001315	PAD, CONCRETE 40" X 45" X 4" 25- 50KVA T	\$110.72	\$2,214.40	N
20	2007395	PADLOCK, RED BRASS BODY 1/4" BRASS SHACK	\$22.80	\$456.00	N
20	2007489	REPELLENT, FIRE ANT GRANULE 4 OZ BIFENTH	\$3.17	\$63.40	N
40	2004031	STUD, GALVANIZED, 11 THREAD PER INCH ALL	\$1.94	\$77.60	N
9	2004948	TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 6	\$10.51	\$94.59	N
6	2004954	TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 6	\$21.15	\$126.90	N
45	2004950	TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 8	\$10.13	\$455.85	N
20	2001519	TX,PM,LP,1P,37.5 KVA,240/120,FR3,SS	\$4,466.84	\$89,336.80	Υ
120	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$1.00	\$120.00	N
3	2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.65	\$1.95	N
			Total	\$93,258.22	



Distribution Services **HDUG GRD Transformers**  Printed Date: 3/8/2023

District: CSA

WR No. 925095

Date Sched: 3/1/23 Date Required: 3/1/23

### **Additional Information:**

WR Description: HDUG 1250 sq ft GROUND TRANSFORMERS

·	'		
INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$2,077.20	\$0.00	\$2,077.20
OVERHEAD:	\$208.76	\$0.00	\$208.76
	\$2,285.96	\$0.00	\$2,285.96
LABOR HOURS:	32.5	0	32.5
LABOR COST:	\$1,551.97	\$0.00	\$1,551.97
OVERHEAD:	\$2,225.37	\$0.00	\$2,225.37
	\$3,777.34	\$0.00	\$3,777.34
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$6,063.30	\$0.00	\$6,063.30
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$6,063.30	\$0.00	\$6,063.30



**Design Number 1** 

**Printed Date: 3/8/2023** Dist: CSA

WR No. 925095

	Mate	erial Numbe	r Description	Unit Price	Total Cost	Asset?
INSTAL	.L					
	60	2077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$286.80	N
	80	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$22.38	\$1,790.40	N
				Total	\$2,077.20	



Distribution Services HDUG FRAME OH Takeoff Printed Date: 3/8/2023

District: CSA

WR No. 925096

Date Sched: 3/1/23 Date Required: 3/1/23

### **Additional Information:**

WR Description: HDUG 1250 sq ft TAKEOFFS

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$890.70	\$0.00	\$890.70
OVERHEAD:	\$89.51	\$0.00	\$89.51
	\$980.21	\$0.00	\$980.21
LABOR HOURS:	8.4	0	8.4
LABOR COST:	\$401.05	\$0.00	\$401.05
OVERHEAD:	\$575.10	\$0.00	\$575.10
	\$976.15	\$0.00	\$976.15
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$1,956.36	\$0.00	\$1,956.36
REMOVAL:			
MATERIAL: OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST: OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$1,956.36	\$0.00	\$1,956.36



**Design Number 1** 

Printed Date: 3/8/2023 Dist: CSA

WR No. 925096

Mate	rial Numbe	Pr Description	Unit Price	<b>Total Cost</b>	Asset?
INSTALL					
2	2003651	ARRESTER, LIGHTNING DISTRIBUTION CLASS 8	\$54.26	\$108.52	Υ
2	2077754	BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.67	\$3.34	N
2	2131366	BRACKET, FG, 1 PH, 1 POS, 18"	\$48.26	\$96.52	N
2	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$2.65	\$5.30	N
2	2077911	CLAMP, HOT LINE CU TO CU #6 SOL- 2 STR T	\$6.27	\$12.54	N
80	2078012	CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$67.20	N
6	2004187	CONDUCTOR,BARE,#2 CU,7-STR,SOFT-DRAWN	\$1.19	\$7.14	N
2	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$1.20	\$2.40	N
4	2077930	CONNECTOR, VICE CU #4 STR	\$2.57	\$10.28	N
0	2077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$0.00	N
2	2003846	CUTOUT, 15KV, 100A FUSE HLDR, 300A UNVRS	\$141.87	\$283.74	Υ
2	2077794	FUSE LINK, 103A UNVRSL 100A CUTOUT 23" O	\$25.25	\$50.50	N
2	2077822	KIT, ATTACHMENT, FOR ATTACHING "FLYING"	\$84.81	\$169.62	N
4	2077965	MOULDING, GROUND WIRE, PVC 1/2 IN X 8 FT	\$1.74	\$6.96	N
0	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$22.38	\$0.00	N
2	2077789	SCREW, LAG PILOT POINT 3/8 X 3	\$0.35	\$0.70	N
20	2077997	STAPLE, SECURES 1/2" PVC MOULDING TO WOO	\$0.39	\$7.80	N
2	2077828	STIRRUP, AL BODY & CU BAIL 1/0-397	\$25.73	\$51.46	N
2	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.34	\$0.68	N
2	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$1.00	\$2.10	N
6	2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.65	\$3.90	N
			Total	\$890.70	



Dist Svcs

HDUG GRD takeoff POLE

Printed Date: 3/8/2023

District: CSA

WR No. 925097

Date Sched: 3/1/23 Date Required: 3/1/23

### **Additional Information:**

WR Description: HDUG 1250 sq ft GROUND TAKEOFFS

	00 04 11 01 10 01 12	.,	
INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$207.72	\$0.00	\$207.72
OVERHEAD:	\$20.88	\$0.00	\$20.88
	\$228.60	\$0.00	\$228.60
LABOR HOURS:	3.75	0	3.75
LABOR COST:	\$179.26	\$0.00	\$179.26
OVERHEAD:	\$257.05	\$0.00	\$257.05
	\$436.31	\$0.00	\$436.31
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$664.91	\$0.00	\$664.91
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$664.91	\$0.00	\$664.91



**Design Number 1** 

Printed Date: 3/8/2023 Dist: CSA

WR No. 925097

	Mate	rial Numbe	r Description	Unit Price	<b>Total Cost</b>	Asset?
INSTAL	.L					
	6	2077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$28.68	N
	8	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$22.38	\$179.04	N
				Total	\$207.72	



Distribution Engineering HDUG Pri Conduit Material Printed Date: 3/8/2023

District: CSA

WR No. 925098

Date Sched: 3/1/23 Date Required: 3/1/23

### **Additional Information:**

WR Description: HDUG 1250 sq ft PRIMARY CONDUIT

•	· ·		
INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$15,113.34	\$0.00	\$15,113.34
OVERHEAD:	\$1,518.89	\$0.00	\$1,518.89
	\$16,632.23	\$0.00	\$16,632.23
LABOR HOURS:	0	0	0
LABOR COST:	\$0.05	\$0.00	\$0.05
OVERHEAD:	\$0.09	\$0.00	\$0.09
	\$0.14	\$0.00	\$0.14
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$16,632.37	\$0.00	\$16,632.37
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
	0	0	0
LABOR HOURS: LABOR COST:	0	0	0
OVERHEAD:	\$0.00	\$0.00	\$0.00
OVERTICAD.	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00 \$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00 \$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00 \$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$16,632.37	\$0.00	\$16,632.37



**Design Number 1** 

Printed Date: 3/8/2023 Dist: CSA

WR No. 925098

Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
12	2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$16.10	\$193.20	N
20	2004389	CONDUIT, GALVANIZED 2 IN 10 FT WITH COUP	\$10.85	\$217.00	Υ
5935	2004488	CONDUIT, PVC 2 IN 20 FT BELL END	\$1.93	\$11,454.55	Υ
108	2004507	COUPLING, PVC 2 IN SCH 40 TEMS 13.01	\$1.01	\$109.08	N
46	2004395	ELBOW, 2" 90 DEGREE ,GALVANIZED, 24" MIN	\$56.45	\$2,596.70	N
8	2004394	ELBOW, GALV 2 INCH 45 DEG THD 15" RADIUS	\$44.77	\$358.16	N
6155	2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$184.65	N
			Total	\$15,113.34	



Dist Svcs HDUG PRIMARY

Printed Date: 3/8/2023

District: CSA

WR No. 925100

Date Sched: 3/1/23 Date Required: 3/1/23

### **Additional Information:**

WR Description: HDUG 1250 sq ft PRIMARY CABLE

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$21,018.84	\$0.00	\$21,018.84
OVERHEAD:	\$2,112.40	\$0.00	\$2,112.40
	\$23,131.24	\$0.00	\$23,131.24
LABOR HOURS:	115.14	0	115.14
LABOR COST:	\$5,498.09	\$0.00	\$5,498.09
OVERHEAD:	\$7,883.73	\$0.00	\$7,883.73
	\$13,381.82	\$0.00	\$13,381.82
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$36,513.06	\$0.00	\$36,513.06
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$36,513.06	\$0.00	\$36,513.06



**Design Number 1** 

**Printed Date: 3/8/2023** Dist: CSA

WR No. 925100

Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
6304	2004343	CABLE, ALUMINUM, 15KV, 1/C, 1/0 AWG SOLI	\$2.80	\$17,651.48	Υ
2	2004514	CAP, CONDUIT 2"	\$14.73	\$29.46	N
2	2004453	CAP, END CABLE 600 V CABLE RANGE .940 -	\$2.09	\$4.18	N
2	2003752	CLAMP, CONDUIT GROUND 1-1/4 IN - 2 IN CO	\$9.18	\$18.36	N
0	2004488	CONDUIT, PVC 2 IN 20 FT BELL END	\$1.93	\$0.00	Υ
2	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$1.20	\$2.40	N
44	2077931	CONNECTOR, VICE CU #2 STR	\$3.59	\$157.96	N
40	2004642	KIT, SEALING, CABLE ACCESSORY, 1/0 - 4/0	\$10.33	\$413.20	N
8	2004403	STRAP, GALV 2 IN 2 HOLE	\$0.66	\$5.28	Ν
40	2004883	TERMINATOR, LOADBREAK 200 AMP, 1/0 SOL	\$63.96	\$2,558.40	Υ
2	2004634	TERMINATOR, POTHEAD, 1/0 TO 4/0, STEM	\$87.06	\$174.12	Υ
4	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$1.00	\$4.00	Ν
			Total	\$21,018.84	



Dist Svcs HDUG SECONDARY

Printed Date: 3/8/2023

District: CSA

WR No. 925103

Date Sched: 3/1/23 Date Required: 3/1/23

### **Additional Information:**

WR Description: HDUG 1250 sq ft SECONDARY CABLE

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$12,176.76	\$0.00	\$12,176.76
OVERHEAD:	\$1,223.77	\$0.00	\$1,223.77
	\$13,400.53	\$0.00	\$13,400.53
LABOR HOURS:	146.42	0	146.42
LABOR COST:	\$6,991.43	\$0.00	\$6,991.43
OVERHEAD:	\$10,025.00	\$0.00	\$10,025.00
	\$17,016.43	\$0.00	\$17,016.43
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$30,416.96	\$0.00	\$30,416.96
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$30,416.96	\$0.00	\$30,416.96



**Design Number 1** 

Printed Date: 3/8/2023 Dist: CSA

WR No. 925103

Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
2029	2004354	CABLE, SWEETBRIAR, AL,UG,600V,2/C,4/0 AW	\$1.98	\$4,017.82	Υ
45	2005022	CONNECTOR, 600V URD, 6 POSITION, CONDUCT	\$21.66	\$974.70	N
12	2005025	CONNECTOR, 600V, URD, 8 POSITION, CONDUC	\$41.83	\$501.96	N
22	2000241	DECAL, WARNING, NOTICE, CLEARANCE, 10" X 7"	\$3.53	\$77.66	N
22	2004714	HANDHOLE, ABOVE GRADE, LARGE DOME	\$274.16	\$6,031.52	N
22	2005212	MARKER, CURB LEXAN .040 THICK, ROUND 2.5	\$3.25	\$71.50	N
22	2007395	PADLOCK, RED BRASS BODY 1/4" BRASS SHACK	\$22.80	\$501.60	N
			Total	\$12,176.76	



Dist Svcs HDUG SEC CONDUIT **Contact Name:** 

Printed Date: 3/8/2023

District: CSA

WR No. 925104

Date Sched: 3/1/23 Date Required: 3/1/23

### **Additional Information:**

WR Description: HDUG 1250 sq ft SECONDARY CONDUIT

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$9,800.59	\$0.00	\$9,800.59
OVERHEAD:	\$984.96	\$0.00	\$984.96
	\$10,785.55	\$0.00	\$10,785.55
LABOR HOURS:	0	0	0
LABOR COST:	\$0.03	\$0.00	\$0.03
OVERHEAD:	\$0.05	\$0.00	\$0.05
	\$0.08	\$0.00	\$0.08
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$10,785.63	\$0.00	\$10,785.63
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$10,785.63	\$0.00	\$10,785.63



**Design Number 1** 

**Printed Date: 3/8/2023** Dist: CSA

WR No. 925104

Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
1	2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$16.10	\$16.10	N
6	2007228	CEMENT, PVC GRAY MEDIUM DRY QUART W/DAUB	\$16.35	\$98.10	N
291	2004517	CONDUIT, PVC P & C 3 IN 20 FT	\$3.06	\$890.46	Υ
1410	2004529	CONDUIT, PVC, 4" X 20', DB-60-TC-6	\$5.09	\$7,176.90	Υ
16	2004521	COUPLING, PVC 3 IN SCH 40 TEMS 13.01	\$8.50	\$136.00	N
72	2004535	COUPLING, PVC 4 IN SCH 40 TEMS 13.01	\$9.20	\$662.40	N
8	2004524	ELBOW, PVC 3 IN 90 DEG 13 IN RAD SCH 40	\$10.94	\$87.52	N
36	2004538	ELBOW, PVC 4", 90 DEG., 16" RADIUS, SCHE	\$18.78	\$676.08	N
1901	2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$57.03	N
			Total	\$9,800.59	



**Contact Name:** 

Dist Svcs HDUG SERVICE CABLE

Printed Date: 3/8/2023

District: CSA

WR No. 925106

Date Sched: 3/1/23 Date Required: 3/1/23

### **Additional Information:**

WR Description: HDUG 1250 sq ft SERVICE CABLE

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$24,305.72	\$0.00	\$24,305.72
OVERHEAD:	\$2,442.72	\$0.00	\$2,442.72
	\$26,748.44	\$0.00	\$26,748.44
LABOR HOURS:	1.53	0	1.53
LABOR COST:	\$73.21	\$0.00	\$73.21
OVERHEAD:	\$104.96	\$0.00	\$104.96
	\$178.17	\$0.00	\$178.17
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$26,926.61	\$0.00	\$26,926.61
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$26,926.61	\$0.00	\$26,926.61



**Design Number 1** 

Printed Date: 3/8/2023 Dist: CSA

WR No. 925106

Material Number		r Description	Unit Price	t Asset?	
INSTALL					
16097	2004351	CABLE, CONVERSE, AL, UG, 600V, 2/C, 2/0,	\$1.51	\$24,305.72	Υ
			Total	\$24,305.72	



Dist Svcs **Contact Name:** HDUG SET METERS Printed Date: 3/8/2023

District: CSA

WR No. 925108

Date Sched: 3/1/23 Date Required: 3/1/23

### **Additional Information:**

WR Description: HDUG 1250 sq ft METERS

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	35.27	0	35.27
LABOR COST:	\$1,684.14	\$0.00	\$1,684.14
OVERHEAD:	\$2,414.89	\$0.00	\$2,414.89
	\$4,099.03	\$0.00	\$4,099.03
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$4,099.03	\$0.00	\$4,099.03
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$4,099.03	\$0.00	\$4,099.03



**Contact Name:** 

Dist Svcs HDUG SERVICE CONDUIT Printed Date: 3/8/2023

District: CSA

WR No. 925110

Date Sched: 3/1/23 Date Required: 3/1/23

### **Additional Information:**

WR Description: HDUG 1250 sq ft SERVICE CONDUIT

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$36,316.62	\$0.00	\$36,316.62
OVERHEAD:	\$3,649.82	\$0.00	\$3,649.82
	\$39,966.44	\$0.00	\$39,966.44
LABOR HOURS:	0	0	0
LABOR COST:	\$0.14	\$0.00	\$0.14
OVERHEAD:	\$0.22	\$0.00	\$0.22
	\$0.36	\$0.00	\$0.36
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$39,966.80	\$0.00	\$39,966.80
REMOVAL:			•
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$39,966.80	\$0.00	\$39,966.80
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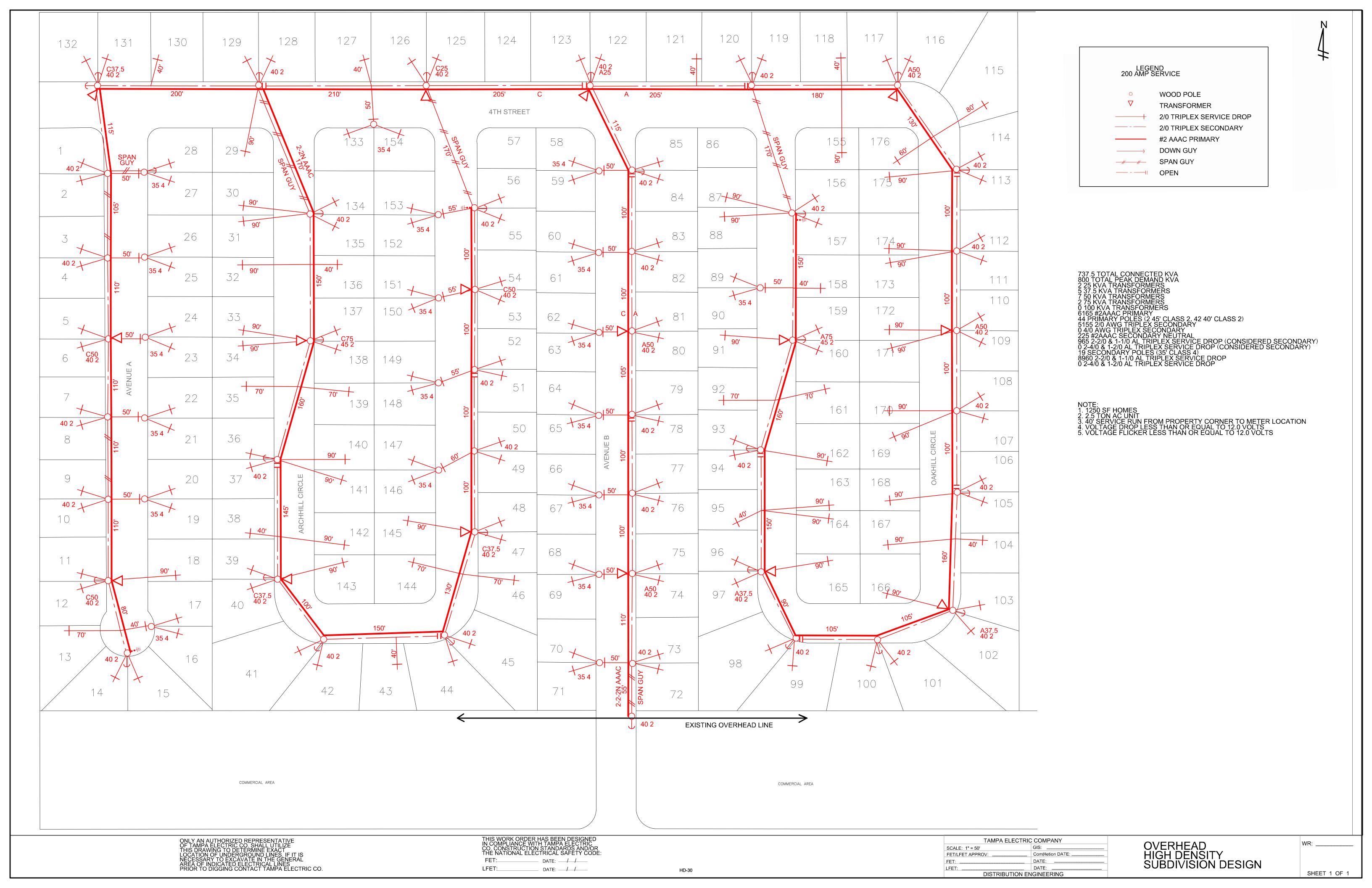


**Design Number 1** 

**Printed Date: 3/8/2023** Dist: CSA

WR No. 925110

Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
176	2004493	ADAPTOR, 2" PVC, FEMALE SLIP TO MALE THR	\$0.63	\$110.88	N
31	2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$16.10	\$499.10	N
15330	2004488	CONDUIT, PVC 2 IN 20 FT BELL END	\$1.93	\$29,586.90	Υ
176	2004491	CONDUIT, PVC 2 IN 250 FT ROLL FLEXIBLE	\$2.37	\$417.12	N
176	2004401	CONDUIT, SERVICE RISER, PVC, 2"	\$15.60	\$2,745.60	N
896	2004507	COUPLING, PVC 2 IN SCH 40 TEMS 13.01	\$1.01	\$904.96	N
448	2004511	ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-	\$3.55	\$1,590.40	N
176	2004396	NUT, LOCK GALV 2 IN	\$0.61	\$107.36	N
11810	2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$354.30	N
			Total	\$36.316.62	



#### **OH Construction Cost Data Summary**

High Density (176-Lot) OH Subdivision Costs

	Α	В	C (D+ M) Material and	D	E (F + L) Total Labor	F (G + H + I)	G Base	H (G x J x TLF) Operations Labor	I (G x K x CLF) Contract Labor	J TEC	K Contractor	L	M (D x MHR) Material	N (C+E)
Line #	Work Type/WR #	Description	Handling	Material	Plus Vehicles	Total Labor	Labor	Overheads	Overheads	Work %	Work %	Vehicle	Handling	Total
4	T													
2	Transformers 925111	Install & Ground Transformers	44,723.63	40,639.37	14,445.63	12,816.57	6,985.65	5,032.60	798.32	60%	40%	\$1,629.05	4,084.26	59,169.25
4	Primary													
5 6	925112	Install Primary Line includes Grounding Primary Takeoffs	3,636.43	3,304.34	7,230.54	6,415.14	3,496.56	2,518.99	399.59	60%	40%	\$815.40	332.09	10,866.96
7	Poles	3 ,												
8 9	925113	Install Poles and Guy Stubs Includes Haul Poles Out	33,946.40	30,846.34	42,257.95	37,492.46	20,435.20	14,721.93	2,335.33	60%	40%	\$4,765.49	3,100.06	76,204.35
10	Secondary													
11 12	925114	Install Secondary Cable	18,679.48	16,973.63	21,866.00	19,400.14	10,574.01	7,617.73	1,208.40	60%	40%	\$2,465.86	1,705.85	40,545.48
13	Services													
14	927142	Install Service Cable	14,892.01	13,532.04	15,006.94	13,314.58	7,257.09	5,228.15	829.34	60%	40%	\$1,692.35	1,359.97	29,898.95
15	927163	Install Meters	17,408.68	\$ <u>15,818.88</u>	3,737.92	3,089.89	1,684.14	1,213.29	192.46	60%	40%	648.03	1,589.80	21,146.60
16 17			32,300.69	29,350.92	18,744.86	16,404.47	8,941.23	6,441.44	1,021.80			2,340.38	2,949.77	51,045.55
18 19	Engineering	Design/Inspection/Coordination	-	-	10,785.62		-	-	-	100%	0%		-	10,785.62
20 21	Tree Trim		-	-	-	-	-	-	-			-	-	-
22	Totals (Sum of lines	2, 5, 8, 11, 16, 18, and 20)	133,286.62	121,114.60	115,330.59	92,528.78	50,432.65	36,332.69	5,763.44			12,016.18	12,172.02	248,617.21
23	Cost "Per Lot" (Line 3	,	757.31	,	655.29	. ,,==	,	,	-,			,	,	1,412.60

Adjustment Factors							
TEC Labor Overhead Factor (excludes engineering)	TLF =	1.2007					
Contractor Labor Overhead Factor	CLF =	0.2857					
Current year material handling charge rate	MHR =	0.1005					

### High Density - 176 Lots - Overhead Material List

This worksheet lists the totals for major materials to be listed on the associated work request print as requested by the PSC.

737.5 Total Connected KVA

800 Total peak demand KVA

2 25 kVA Transformers

5 37.5 kVA Transformers

7 50 kVA Transformers

2 75 kVA Transformers

0 100 kVA Transformers

6165 #2AAAC Primary

**44 Primary Poles** 

5155 2/0 AWG Triplex Secondary

0 4/0 AWG Triplex Secondary

225 #2AAAC Secondary Neutral

965 2-2/0 & 1-1/0 AL Triplex Service Drop (considered secondary)

0 2-4/0 & 1-2/0 AL Triplex Service Drop (considered secondary)

19 Secondary Poles

8960 2-2/0 & 1-1/0 AL Triplex Service Drop

0 2-4/0 & 1-2/0 AL Triplex Service Drop

### Summary of assemblies (CU's) for High Density Overhead Design - March 2023

Work Request #1  Assemblies ===>  Total Quantities ==>	925111 25 KVA PKT11W3F 2	- Transformers (enter the 37.5 KVA PKT11W4F 5	ese Construction Units into V 50 KVA PKT11W5F 7	VorkPro) 75 KVA PKT11W6F 2	100 KVA PKT11W7F 0	Stirrup ALSTRP1/0 16	Spacer SEWC 16	Grounding GRDMEG1/2 16					
Work Request #2 Assemblies ===> Total Quantities ==>	925112 #2 AAAC WIOPA 6165	- Primary 1st span W102F 1	Additional WIO2A 7	lst span WIOIF 3	Additional WIO1A 32	Fused cutouts PKP208WB3A 1	DE & TAP PKP101WA3A 4	Fuses FLOH103 2	Grounding GRDMEG1/2 3				
Work Request #3 Should be> Assemblies> Total Quantities>	925113 Pole haul POLE_HAUL 44	- Poles and Guys 2ø Deadend STP402_DE_40C2 1	2 ø tangent STP103_TAN_40C2 6	2 ø Corner STP302_RC_40C2 1	lø Deadend STP401_DE_40C2 4	1ø angle <20 STP101_ANG_40C2 5	1ø angle <20 STP101_ANG_45C2 2	lø Tangent STP101_TAN_40C2 13	1ø angle >20 STP301_RC_40C2 11	3 ø STP104E4B 1	Down guys PKG12W2H 29	Pole hardware PKG31W1H 4	
Work Request #4  Assemblies ===> Total Quantities ==>	925114 35' CL 4 STS11C 0	- Secondary - From Seco 0 POLE_HAUL 0	ndary&Neutral worksheet 2/0 WIO3SB 5155	4/0 WIO3SC 0	#2 Neutral C2AAAC 225	Labor WIOCF 6	Labor WIOCA 37	Eyebolt SEWIDEN 2	Eyenut SEG1DEN 2	DE+Bolt PKS11W 8	CABLEOPEN 14	Pole hardware PKG31W1H 8	Guy wire GUYSTR3/8 565

More of Work Request #4 - Secondary continued - From Secondary & Neutral worksheet and SlackSecondary (service cable) & Secondary Poles worksheet										
•		35' Class 4	Deadend	Clamp	2/0 triplex	4/0 triplex	0	Down guys	Pole hardware	Guy wire
Assemblies ====>	POLE HAUL	STS11C	PKS21G	CLMIDSPAN	CA2/0TPX	CA4/0TPX	SVLABOR	PKG11W1H	PKG31W1H	GUYSTR3/8
Total Quantities ==>	19	19	35	3	965	0	19	1	2	50

927142 2/0 triplex	- Services 4/0 triplex	Clamp	
CA2/0TPX	CA4/0TPX	CLMIDSPAN	SVLABOR
8960	0	26	0
	2/0 triplex CA2/0TPX	2/0 triplex 4/0 triplex CA2/0TPX CA4/0TPX	2/0 triplex         4/0 triplex         Clamp           CA2/0TPX         CA4/0TPX         CLMIDSPAN

Work Request #5	927163 - Set M	leter
Assemblies Quantities	METERLABOR 176	



**Contact Name:** Tampa Electric

Distribution Services HDOH TRANSFORMER Printed Date: 3/8/2023

District: CSA

WR No. 925111

Date Sched: 3/1/23 Date Required: 3/1/23

### **Additional Information:**

WR Description: HDOH 1250 sq ft TRANSFORMERS

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$40,639.37	\$0.00	\$40,639.37
OVERHEAD:	\$4,084.30	\$0.00	\$4,084.30
	\$44,723.67	\$0.00	\$44,723.67
LABOR HOURS:	146.26	0	146.26
LABOR COST:	\$6,985.65	\$0.00	\$6,985.65
OVERHEAD:	\$10,016.70	\$0.00	\$10,016.70
	\$17,002.35	\$0.00	\$17,002.35
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$61,726.02	\$0.00	\$61,726.02
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$61,726.02	\$0.00	\$61,726.02



**Design Number 1** 

**Printed Date: 3/8/2023** Dist: CSA

WR No. 925111

Mate	rial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
16	2003646	ARRESTER, DISTRIBUTION, 10KV, 8.4KV MCOV	\$61.63	\$986.08	Υ
14	2077754	BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.67	\$23.38	N
32	2077755	BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.83	\$58.56	N
16	2003690	BRACKET, CUTOUT, ARRESTER & POTHEAD DWG	\$12.39	\$198.24	N
16	2004660	BRACKET,"L" 5-5/8"IN LENGTH FOR MTG CUTO	\$13.38	\$214.08	N
208	2004197	CABLE, HANDCOIL, COPPER, 600V, 2/0 AWG,	\$2.67	\$555.36	N
24	2004199	CABLE, HANDCOIL, COPPER, 600V, 4/0 AWG,	\$4.11	\$98.64	N
16	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$2.65	\$42.40	N
16	2077911	CLAMP, HOT LINE CU TO CU #6 SOL- 2 STR T	\$6.27	\$100.32	N
32	2078000	CLAMP,GND,TRANSFORMER,#10 SOL-#1 STR CU	\$3.93	\$125.76	N
640	2078012	CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$537.60	N
4	2003528	CONNECTOR, 2-BOLT AL MAIN 336-500MCM TAP	\$30.71	\$122.84	N
42	2077839	CONNECTOR, COMPRESSION H-BLOCK ACSR 1/0-	\$0.97	\$40.74	N
16	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$1.20	\$19.20	N
2	2077845	CONNECTOR, COMPRESSION H-BLOCK ACSR 4/0	\$0.89	\$1.78	N
64	2077930	CONNECTOR, VICE CU #4 STR	\$2.57	\$164.48	N
48	2077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$229.44	N
24	2003516	COVER, SNAP-ON SQUEEZON CONNECTOR D DIE	\$0.80	\$19.20	N
16	2003846	CUTOUT, 15KV, 100A FUSE HLDR, 300A UNVRS	\$141.87	\$2,269.92	Υ
7	2077806	FUSE LINK, 10A UNVRSL 100A CUTOUT 23" OA	\$3.83	\$26.81	N
2	2077807	FUSE LINK, 15A UNVRSL 100A CUTOUT 23" OA	\$3.88	\$7.76	N
2	2077804	FUSE LINK, 5A UNVRSL 100A CUTOUT 23" OAL	\$3.79	\$7.58	N
5	2077805	FUSE LINK, 7A UNVRSL 100A CUTOUT 23" OAL	\$3.79	\$18.95	N
32	2077965	MOULDING, GROUND WIRE, PVC 1/2 IN X 8 FT	\$1.74	\$55.68	N
16	2007368	PROTECTOR, WILD LIFE, SLIP-ON TYPE	\$5.75	\$92.00	N
64	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$22.38	\$1,432.32	N
16	2077767	ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16"	\$6.32	\$101.12	N
16	2077789	SCREW, LAG PILOT POINT 3/8 X 3	\$0.35	\$5.60	N
16	2077812	SPACER, CABLED SECONDARY	\$9.02	\$144.32	N
140	2077997	STAPLE, SECURES 1/2" PVC MOULDING TO WOO	\$0.39	\$54.60	N
2	2001367	TX,OH,25 KVA,7.62/13.2Y,120/240,FR3	\$1,494.48	\$2,988.96	Υ
5	2001368	TX,OH,37.5 KVA,7.62/13.2Y,120/240,FR3	\$1,825.44	\$9,127.20	Υ
7	2001369	TX,OH,50 KVA,7.62/13.2Y,120/240,FR3	\$2,140.33	\$14,982.31	Υ
2	2001370	TX,OH,75 KVA,7.62/13.2Y,120/240,FR3	\$2,798.19	\$5,596.38	Υ
80	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.34	\$27.20	N
48	2078014	WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.17	\$8.16	N
50	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$1.00	\$50.40	N
160	2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.65	\$104.00	N
			Total	\$40,639.37	



**Contact Name:** Tampa Electric

Distribution Services **HDOH PRIMARY** 

Printed Date: 3/8/2023

District: CSA

WR No. 925112

Date Sched: 3/1/23 Date Required: 3/1/23

### **Additional Information:**

WR Description: HDOH 1250 sq ft PRIMARY

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$3,304.34	\$0.00	\$3,304.34
OVERHEAD:	\$332.08	\$0.00	\$332.08
	\$3,636.42	\$0.00	\$3,636.42
LABOR HOURS:	73.22	0	73.22
LABOR COST:	\$3,496.56	\$0.00	\$3,496.56
OVERHEAD:	\$5,013.72	\$0.00	\$5,013.72
	\$8,510.28	\$0.00	\$8,510.28
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$12,146.70	\$0.00	\$12,146.70
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
	\$12,146.70		\$12,146.70
TOTALS:	ψ12, 140.7U	\$0.00	φ12,140.10



**Design Number 1** 

Printed Date: 3/8/2023 Dist: CSA

WR No. 925112

Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					_
3	2003646	ARRESTER, DISTRIBUTION, 10KV, 8.4KV MCOV	\$61.63	\$184.89	Υ
2	2077738	BOLT, 5/8" X 8" EYE GALV RTS 12,400 LBS.	\$4.34	\$8.68	N
4	2077739	BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.19	\$12.76	N
2	2077744	BOLT, MACHINE 1/2 INCH X 7 INCH	\$1.11	\$2.22	N
4	2077754	BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.67	\$6.68	N
1	2077756	BOLT,MACHINE,SQ HEAD,5/8"X14",ONE SQ NUT	\$2.30	\$2.30	N
3	2003681	BRACKET, "L", LIGHTNING ARRESTER 10 KV	\$17.29	\$51.87	N
2	2004660	BRACKET,"L" 5-5/8"IN LENGTH FOR MTG CUTO	\$13.38	\$26.76	N
8	2077818	CLAMP, DEADEND ACSR OR AAC #2-4/0OR .30-	\$14.12	\$112.96	N
3	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$2.65	\$7.95	N
9	2077911	CLAMP, HOT LINE CU TO CU #6 SOL- 2 STR T	\$6.27	\$56.43	N
3	2077813	CLAMP, SLACK SPAN DEADEND #2 ACSR - 2/0	\$13.62	\$40.86	N
6473	2004331	CONDUCTOR, BARE OVERHEAD, 2 AWG, AAAC, 7	\$0.22	\$1,424.13	Υ
120	2078012	CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$100.80	N
11	2077838	CONNECTOR, COMPRESSION H-BLOCK ACSR #2-1	\$0.43	\$4.73	N
7	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$1.20	\$8.40	N
6	2077930	CONNECTOR, VICE CU #4 STR	\$2.57	\$15.42	N
9	2077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$43.02	N
1	2002955	CROSSARM, 5' DEADEND COMPOSITE	\$155.77	\$155.77	N
2	2003846	CUTOUT, 15KV, 100A FUSE HLDR, 300A UNVRS	\$141.87	\$283.74	Υ
2	2077794	FUSE LINK, 103A UNVRSL 100A CUTOUT 23" O	\$25.25	\$50.50	N
1	2077954	INSULATOR, PIN TYPE, 10KV, ANSI CLASS 55	\$6.43	\$6.43	N
2	2003882	INSULATOR, POLYMER VERTICAL LINE POST 25	\$80.42	\$160.84	N
4	2077959	INSULATOR, SUSPENSION, POLYMER, 25KV, AP	\$11.87	\$47.48	N
6	2077965	MOULDING, GROUND WIRE, PVC 1/2 IN X 8 FT	\$1.74	\$10.44	N
5	2077783	NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	\$2.45	\$12.25	N
1	2077971	PIN, CROSSARM 5/8" X 6-1/2" BOLT, 1" LEA	\$7.27	\$7.27	N
12	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$22.38	\$268.56	N
3	2077789	SCREW, LAG PILOT POINT 3/8 X 3	\$0.35	\$1.05	N
30	2077997	STAPLE, SECURES 1/2" PVC MOULDING TO WOO	\$0.39	\$11.70	N
2	2077828	STIRRUP, AL BODY & CU BAIL 1/0-397	\$25.73	\$51.46	N
7	2077826	STIRRUP, AL BODY & CU BAIL 2-4/0	\$13.15	\$92.05	N
2	2004029	STUD-LINEPOST INSULATOR 3/4"X5/8 7"BOLT	\$7.05	\$14.10	N
1	9999999	USED AS A STOCK NUMBER PLACEHOLDER	\$0.00	\$0.00	N
4	2078005	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8	\$0.58	\$2.32	N
13	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.34	\$4.42	N
2	2008135	WASHER, LOCK T316SS 1/2 IN	\$0.18	\$0.36	N
3	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$1.00	\$3.00	N
15	2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.65	\$9.75	N
			Total	\$3,304.33	



**Contact Name:** Tampa Electric

Distribution Services **HDOH POLES** 

Printed Date: 3/8/2023

District: CSA

WR No. 925113

Date Sched: 3/1/23 Date Required: 3/1/23

### **Additional Information:**

WR Description: HDOH 1250 sq ft POLES

INSTALLATION:	Capital	Oper./Maint.	Total	
MATERIAL:	\$30,846.34	\$0.00	\$30,846.34	
OVERHEAD:	\$3,100.07	\$0.00	\$3,100.07	
	\$33,946.41	\$0.00	\$33,946.41	
LABOR HOURS:	427.97	0	427.97	
LABOR COST:	\$20,435.20	\$0.00	\$20,435.20	
OVERHEAD:	\$29,302.00	\$0.00	\$29,302.00	
	\$49,737.20	\$0.00	\$49,737.20	
VEHICLE:	\$0.00	\$0.00	\$0.00	
CONTRACTOR:	\$0.00	\$0.00	\$0.00	
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00	
SUBTOTAL:	\$83,683.61	\$0.00	\$83,683.61	
REMOVAL:				
MATERIAL:	\$0.00	\$0.00	\$0.00	
OVERHEAD:	\$0.00	\$0.00	\$0.00	
	\$0.00	\$0.00	\$0.00	
LABOR HOURS:	0	0	0	
LABOR COST:	\$0.00	\$0.00	\$0.00	
OVERHEAD:	\$0.00	\$0.00	\$0.00	
	\$0.00	\$0.00	\$0.00	
VEHICLE:	\$0.00	\$0.00	\$0.00	
CONTRACTOR:	\$0.00	\$0.00	\$0.00	
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00	
SUBTOTAL:	\$0.00	\$0.00	\$0.00	
TRANSFER:				
LABOR HOURS:	0	0	0	
LABOR COST:	\$0.00	\$0.00	\$0.00	
OVERHEAD:	\$0.00	\$0.00	\$0.00	
	\$0.00	\$0.00	\$0.00	
VEHICLE:	\$0.00	\$0.00	\$0.00	
CONTRACTOR:	\$0.00	\$0.00	\$0.00	
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00	
SUBTOTAL:	\$0.00	\$0.00	\$0.00	
TOTALS:	\$83,683.61	\$0.00	\$83,683.61	



**Design Number 1** 

**Printed Date: 3/8/2023** Dist: CSA

WR No. 925113

Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
29	2003632	ANCHOR,SCRW GALV 10" WING 1-1/4" ROD 8"	\$87.14	\$2,527.06	N
20	2077739	BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.19	\$63.80	N
62	2077764	BOLT, MACHINE 3/4" X 12", GALV	\$3.38	\$209.56	N
40	2077754	BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.67	\$66.80	N
19	2077753	BOLT, MACHINE 5/8" X 8", GALV.	\$2.45	\$46.55	N
1	2077780	BOLT, SPOOL, 5/8" X 10", GALV. SINGLE UP	\$5.96	\$5.96	N
45	2077755	BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.83	\$82.35	N
8	2003686	BRACKET, FIBERGLASS STANDOFF VERTICAL24"	\$60.74	\$485.92	N
7	2077818	CLAMP, DEADEND ACSR OR AAC #2-4/0OR .30-	\$14.12	\$98.84	N
13	2003508	CLAMP, SUSPENSION AL ANGLE RANGE .50 TO	\$15.94	\$207.22	N
19	2077924	CLEVIS, STEEL LESS INSULATOR 5/8 IN PIN	\$17.38	\$330.22	N
105	2078012	CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$88.20	N
25	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$1.20	\$30.00	N
21	2077930	CONNECTOR, VICE CU #4 STR	\$2.57	\$53.97	N
2	2077765	DOUBLE-ARMING, GALVANIZED 5/8 "X 12"	\$5.12	\$10.24	N
29	2003636	EXTENSION ROD, ANCHOR 1-1/4 X 72 6 FT	\$97.35	\$2,823.15	N
27	2077901	FIBERGLASS RIDGE-PIN	\$45.52	\$1,229.04	N
120	2077949	GRIP,GUY,FORMED WIRE DEADEND,3/8"EHS	\$2.80	\$336.00	N
22	2077862	GUARD, LINE #2 ACSR & AAAC STR 6/1, 7	\$2.46	\$54.12	N
3	2077863	GUARD, LINE 2/0 ACSR & AAAC STR 6/1, 7	\$4.90	\$14.70	N
62	2077951	HOOK, GUY	\$3.49	\$216.38	N
35	2077954	INSULATOR, PIN TYPE, 10KV, ANSI CLASS 55	\$6.43	\$225.05	N
1	2077952	INSULATOR, SPOOL, ANSI CLASS 53-3, TRANS	\$1.84	\$1.84	N
33	2077961	INSULATOR, STRAIN FIBERGLASS 36 IN 15,00	\$30.48	\$1,005.84	N
19	2077959	INSULATOR, SUSPENSION, POLYMER, 25KV, AP	\$11.87	\$225.53	N
29	2077979	MARKER, GUY WIRE PLASTIC 8' IN LENGTH CO	\$6.40	\$185.60	N
42	2002857	POLE, WOOD, 40FT CLASS 2, CCA TREATED	\$397.18	\$16,681.56	Υ
2	2002858	POLE, WOOD, 45 FT CLASS 2, CCA TREATED.	\$454.68	\$909.36	Υ
23	2077767	ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16"	\$6.32	\$145.36	N
62	2077790	SCREW, LAG 1/2" X 4", GALV., TWIST DRIVE	\$0.47	\$29.14	N
48	2077812	SPACER, CABLED SECONDARY	\$9.02	\$432.96	N
7	2003612	TIE, PREFORMED SIDE TIE #2 ACSR OR #2 A	\$6.26	\$43.82	N
28	2003613	TIE, TOP, FORMED WIRE #2 ACSR OR #2 AAAC	\$3.49	\$97.72	N
62	2078003	WASHER, CURVED GALVANIZED, 3-1/4"X 3-1/4	\$2.69	\$166.78	N
156	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.34	\$53.04	N
146	2078014	WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.17	\$24.82	N
2776	2005879	WIRE,GUY,EHS STEEL,GALV,3/8",15.4K RBS	\$0.59	\$1,637.84	N
			Total	\$30,846.34	



Dist Eng HDOH SECONDARY

Printed Date: 3/8/2023

District: CSA

WR No. 925114

Date Sched: 3/1/23 Date Required: 3/1/23

### **Additional Information:**

WR Description: HDOH 1250 sq ft SECONDARY

p			
INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$16,973.63	\$0.00	\$16,973.63
OVERHEAD:	\$1,705.85	\$0.00	\$1,705.85
	\$18,679.48	\$0.00	\$18,679.48
LABOR HOURS:	221.46	0	221.46
LABOR COST:	\$10,574.01	\$0.00	\$10,574.01
OVERHEAD:	\$15,162.06	\$0.00	\$15,162.06
	\$25,736.07	\$0.00	\$25,736.07
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$44,415.55	\$0.00	\$44,415.55
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
	0	0	0
LABOR HOURS:	0	0	0
LABOR COST: OVERHEAD:	\$0.00	\$0.00	\$0.00
OVERHEAD.	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$44,415.55	\$0.00	\$44,415.55



**Design Number 1** 

Printed Date: 3/8/2023 Dist: CSA

WR No. 925114

			· J ·		
Mate	erial Number	Description	Unit Price	Total Cost	Asset?
INSTALL					
1	2003632	ANCHOR,SCRW GALV 10" WING 1-1/4" ROD 8"	\$87.14	\$87.14	N
10	2077739	BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.19	\$31.90	N
11	2077764	BOLT, MACHINE 3/4" X 12", GALV	\$3.38	\$37.18	N
1	2077755	BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.83	\$1.83	N
5413	2004338	CABLE, OVERHEAD SECONDARY, TRIPLEX, 2/0	\$1.68	\$9,093.50	Υ
1013	2004364	CABLE, SERVICE DROP AL 2-2/0 & 1-1/0 NEU	\$1.41	\$1,428.75	Υ
43	2077818	CLAMP, DEADEND ACSR OR AAC #2-4/0OR .30-	\$14.12	\$607.16	N
3	2003770	CLAMP, MID SPAN ALUMINUM 1/4 IN - 1/2 IN	\$10.26	\$30.78	N
236	2004331	CONDUCTOR, BARE OVERHEAD, 2 AWG, AAAC, 7	\$0.22	\$51.99	Υ
129	2077839	CONNECTOR, COMPRESSION H-BLOCK ACSR 1/0-	\$0.97	\$125.13	N
8	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$1.20	\$9.60	N
8	2077931	CONNECTOR, VICE CU #2 STR	\$3.59	\$28.72	N
86	2003516	COVER, SNAP-ON SQUEEZON CONNECTOR D DIE	\$0.80	\$68.80	N
1	2003636	EXTENSION ROD, ANCHOR 1-1/4 X 72 6 FT	\$97.35	\$97.35	N
12	2077949	GRIP,GUY,FORMED WIRE DEADEND,3/8"EHS	\$2.80	\$33.60	N
11	2077951	HOOK, GUY	\$3.49	\$38.39	N
10	2077961	INSULATOR, STRAIN FIBERGLASS 36 IN 15,00	\$30.48	\$304.80	N
1	2077979	MARKER, GUY WIRE PLASTIC 8' IN LENGTH CO	\$6.40	\$6.40	N
37	2077783	NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	\$2.45	\$90.65	N
19	2002842	POLE, WOOD, 35 FT, CLASS 4, CCA TREATED.	\$212.82	\$4,043.58	Υ
19	2077767	ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16"	\$6.32	\$120.08	N
11	2077790	SCREW, LAG 1/2" X 4", GALV., TWIST DRIVE	\$0.47	\$5.17	N
19	2077812	SPACER, CABLED SECONDARY	\$9.02	\$171.38	N
11	2078003	WASHER, CURVED GALVANIZED, 3-1/4"X 3-1/4	\$2.69	\$29.59	N
50	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.34	\$17.00	N
57	2078014	WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.17	\$9.69	N
16	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$1.00	\$16.00	N
657	2005879	WIRE,GUY,EHS STEEL,GALV,3/8",15.4K RBS	\$0.59	\$387.63	N
			Total	\$16,973.63	



Distribution Services **HDOH SERVICE** 

Printed Date: 3/8/2023

District: CSA

WR No. 927142

Date Sched: 3/1/23 Date Required: 3/1/23

#### **Additional Information:**

WR Description: HDOH 1250 sq ft SERVICE

INSTALLATION:	Capital	Oper./Maint.	Total	
MATERIAL:	\$13,532.04	\$0.00	\$13,532.04	
OVERHEAD:	\$1,359.97	\$0.00	\$1,359.97	
	\$14,892.01	\$0.00	\$14,892.01	
LABOR HOURS:	151.98	0	151.98	
LABOR COST:	\$7,257.09	\$0.00	\$7,257.09	
OVERHEAD:	\$10,405.93	\$0.00	\$10,405.93	
	\$17,663.02	\$0.00	\$17,663.02	
VEHICLE:	\$0.00	\$0.00	\$0.00	
CONTRACTOR:	\$0.00	\$0.00	\$0.00	
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00	
SUBTOTAL:	\$32,555.03	\$0.00	\$32,555.03	
REMOVAL:				
MATERIAL:	\$0.00	\$0.00	\$0.00	
OVERHEAD:	\$0.00	\$0.00	\$0.00	
	\$0.00	\$0.00	\$0.00	
LABOR HOURS:	0	0	0	
LABOR COST:	\$0.00	\$0.00	\$0.00	
OVERHEAD:	\$0.00	\$0.00	\$0.00	
	\$0.00	\$0.00	\$0.00	
VEHICLE:	\$0.00	\$0.00	\$0.00	
CONTRACTOR:	\$0.00	\$0.00	\$0.00	
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00	
SUBTOTAL:	\$0.00	\$0.00	\$0.00	
TRANSFER:				
LABOR HOURS:	0	0	0	
LABOR COST:	\$0.00	\$0.00	\$0.00	
OVERHEAD:	\$0.00	\$0.00	\$0.00	
	\$0.00	\$0.00	\$0.00	
VEHICLE:	\$0.00	\$0.00	\$0.00	
CONTRACTOR:	\$0.00	\$0.00	\$0.00	
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00	
SUBTOTAL:	\$0.00	\$0.00	\$0.00	
TOTALS:	\$32,555.03	\$0.00	\$32,555.03	



**Design Number 1** 

**Printed Date: 3/8/2023** Dist: CSA

WR No. 927142

Mat	erial Numbe	r Description	Unit Price	Total Cost	Asset?
INSTALL					
9408	2004364	CABLE, SERVICE DROP AL 2-2/0 & 1-1/0 NEU	\$1.41	\$13,265.28	Υ
0	2004366	CABLE, SERVICE DROP AL 2-4/0 & 1-2/0 NEU	\$2.00	\$0.00	Υ
26	2003770	CLAMP, MID SPAN ALUMINUM 1/4 IN - 1/2 IN	\$10.26 <b>Total</b>	\$266.76 <b>\$13,532.04</b>	N



Dist Svcs **HDOH METERS**  Printed Date: 3/8/2023

District: CSA

WR No. 927163

Date Sched: 3/1/23 Date Required: 3/1/23

#### **Additional Information:**

WR Description: HDOH 1250 sq ft METERS

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	35.27	0	35.27
LABOR COST:	\$1,684.14	\$0.00	\$1,684.14
OVERHEAD:	\$2,414.89	\$0.00	\$2,414.89
	\$4,099.03	\$0.00	\$4,099.03
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$4,099.03	\$0.00	\$4,099.03
REMOVAL:			
MATERIAL:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TRANSFER:			
LABOR HOURS:	0	0	0
LABOR COST:	\$0.00	\$0.00	\$0.00
OVERHEAD:	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$0.00	\$0.00	\$0.00
TOTALS:	\$4,099.03	\$0.00	\$4,099.03

### Differential costs for single phase (1ø) services from an overhead source

#### **OVERHEAD SERVICE**

OH Service Cable - Material Per Foot Cost
This cost includes all service clamps, connectors and connector covers required. The per foot cost is a material only number.

	•			(Material Handling)		OH Service Material Cost
<u>Action</u>	<u>Description</u>	<u>Material</u>		Overhead		Per Foot
install	76' - 1ø - 2/0 AWG Triplex	\$134.31	+	\$13.50	= \$147.81 ÷ 76 =	\$1.94
install	76' - 1ø - 4/0 AWG Triplex	\$196.47	+	\$19.75	= \$216.22 ÷ 76 =	\$2.84

### OH Service Cable - Fixed Cost

Fixed Cost = TEC labor plus Contractor labor cost to install the service cable, includes labor plus overheads and vehicle plus the Net Present Value of Operation Cost with Storm Cost.

OH Service - Net Present Value of Operation Cost with Storm Cost	\$267.57
Labor cost to install 2/0 triplex service cable	\$169.49
Labor cost to install 4/0 triplex service cable	\$169.49

#### **OH SERVICE CABLE - Cost Table**

			ilistaliation cost			
OH Description			Fixed	Per Foot		
1ø - 2/0 AWG Triplex	\$267.57	+169.49=	\$437.06	\$1.94		
1ø - 4/0 AWG Triplex	\$267.57	+169.49=	\$437.06	\$2.84		

#### OH Service - Poles

This is the cost to haul a service pole to the site and install an overhead service pole.

Action	<u>Description</u>	<u>Total</u>
install	Accessible 35' wood pole	\$963.79
	Average cost to install a service pole	\$963.79

#### **UNDERGROUND SERVICE**

install

#### UG Service from an OH Source - Per Foot Cost

This is the material cost of the conduit and cable in the trench, plus the contractor labor to dig the trench and install the conduit and cable in the trench, plus the cost of the TEC inspector.

								Contractor		
		UG Cable		UG Conduit		Teco		labor		UG Cable
		Material		Material		Inspection		Machine		Machine
		Cost		Cost		Labor		Trench		Trench Total
<u>Action</u>	<u>Description</u>	Per Foot		Per Foot		Per Foot		Per Foot		Cost Per Foot
install	1ø - 2/0 AWG Triplex	\$1.74	+	\$2.64	+	\$1.16	+	\$14.83	=	\$20.38
install	1ø - 4/0 AWG Triplex	\$2.18	+	\$4.15	+	\$1.16	+	\$14.83	=	\$22.33

\$30.25

#### UG SERVICE CABLE TO METER FROM OH SOURCE - Fixed Cost

This is the cost for the material down the pole and the material at the house riser to the meter can, plus the contractor cost to install the conduit, cable and make the connection on the pole, plus the Net Present Value of Operation Cost with Storm Cost.

UG Service - Net Present	Value of Operation Cost with Storm Co	st		\$192.06						
				(Material						Total
				Handling)		Contractor		NPV		Fixed
<u>Action</u>	<u>Description</u>	<u>Material</u>		Overhead		<u>Labor</u>		OC + SC		Cost
install	1ø - 2/0 AWG Tpx - 2" conduit	\$162.46	+	\$16.33	+	\$102.82	+	\$192.06	=	\$473.67

#### **UG Service Cable from an OH Source - Cost Table**

UG Service Cable from an OH						Serv	vice .	
Source to a meter can Ins		Installation Cost	OH Service Equivalent	e Equivalent Installation Cost			Differential Cost	
Cable & Conduit With Machine Trench	Fixed	Per Foot	<u>Description</u>	Fixed	Per Foot	Fixed	Per Foot	
1ø - 2/0 AWG Triplex	\$473.67	\$20.38	1Ø - 2/0 AWG Triplex	\$437.06	\$1.94	\$36.61	\$18.44	
1ø - 4/0 AWG Triplex	\$626.17	\$22.33	1Ø - 4/0 AWG Triplex	\$437.06	\$2.84	\$189.11	\$19.49	

\$102.82

\$192.06

\$626.17

#### Differential costs for single phase (1ø) services from an overhead source

1ø - 4/0 AWG Tpx - 3" conduit

Fixed		1ø UG Secondary or 1ø UG service in conduit from OH source
Charge	Cost/ft	(Base Charge + service length times Cost/ft)
\$36.61	\$18.44	1ø 2/0 AWG, 100 ft or less, machine trench, /ft (differential) - a service 100' or less is one that would not have a service pole if it was overhead
\$189.11	\$19.49	1ø 4/0 AWG, 100 ft or less, machine trench, /ft (differential) - a service 100' or less is one that would not have a service pole if it was overhead
(\$927.18)	\$18.44	1ø 2/0 AWG, greater than 100 ft, machine trench, /ft (differential) - a service greater than 100' is one that would require a service pole if it was overhead
(\$774.68)	\$19.49	1ø 4/0 AWG, greater than 100 ft, machine trench, /ft (differential) - a service greater than 100' is one that would require a service pole if it was overhead

\$301.03 +

### Conversion Cost - Conversions of single phase (1ø) OH Services to UG Services

The "Conversion Cost" is the sum of: 1) the cost to remove whatever overhead facilities exist;

2) the cost of the remaining book value for those overhead facilities.

After paying the cost to remove and the book value, the Customer essentially becomes a new Customer and is charged the differential cost for his new underground service. The OH Service Cable Removal Cost and the Handy Whitman depreciation tables below are used to calculate the Conversion Cost. The total cost for a customer to convert his overhead service to underground service is the applicable Differential Cost for the new underground service plus the conversion cost.

#### 1) the cost to remove whatever overhead facilities exist

		Removal	System	Average
<u>Action</u>	Average length service	Cost	<u>%</u>	Cost
remove	1ø - #2 AWG Triplex	\$99.21	10%	\$9.92
remove	1ø - 2/0 AWG Triplex	\$99.21	70%	\$69.45
remove	1ø - 4/0 AWG Triplex	\$99.21	20%	\$19.84
	System Average cost to remove average length 1ø service			\$99.21
		Total		System
		Removal	System	Average
Action	Service length with a service pole	Cost	<u>%</u>	Cost
remove	1ø - #2 AWG Triplex	\$167.13	10%	\$16.71
remove	1ø - 2/0 AWG Triplex	\$167.13	70%	\$116.99
remove	1ø - 4/0 AWG Triplex	\$167.13	20%	\$33.43
remove	30' wood pole, drive hook	\$343.21	50%	\$171.61
remove	35' wood pole, drive hook	\$354.90	50%	\$177.45
	System Average cost to remove average long 1ø service with service pole			\$516.18

Total

System

#### 2) the cost of the remaining book value for those overhead facilities.

Book Value Assumptions:

1. Average depreciation0.0362. Age of pole & service, yrs.113. Handy Whitman Ratio, total dist.plant, 2012/20220.68

Book Value = (System Value Today) x (Handy Whitman Ratio) x (1 - (Std Dep. x Age))

		Total		System	
		Installation	System	Average	
<u>Action</u>	Average length service	<u>Cost</u>	<u>%</u>	<u>Cost</u>	
install	1ø - #2 AWG Triplex	\$281.15	10%	\$28.11	
install	1ø - 2/0 AWG Triplex	\$317.30	70%	\$222.11	
install	1ø - 4/0 AWG Triplex	\$385.71	20%	\$77.14	
Sys	tem Average cost to install average length 1ø service			\$327.36	
Boo	ok Value for average length 1ø service			\$134.36	
		Total		System	
		Installation	System	Average	
<u>Action</u>	Service length that requires a service pole	Cost	<u>%</u>	Cost	
install	1ø - #2 AWG Triplex	\$489.45	10%	\$48.95	
install	1ø - 2/0 AWG Triplex	\$559.80	70%	\$391.86	
install	1ø - 4/0 AWG Triplex	\$694.94	20%	\$138.99	
install	35' wood pole, cable spacer	\$743.61	50%	\$371.81	
	Haul pole to job site	\$220.18	100%	\$220.18	
Sys	tem Average cost to install average long 1ø service with serv	ice pole		\$1,171.78	
Воо	k Value for average long 1ø service with service pole			\$480.94	
			Remove	Book value	Conversion
1ø Conversion Cos	t from OH to UG service		Cost	Cost	Cost
1ø Average Service - 100 ft c	or less(Svc without pole) = (book value + removal)		\$99.21	\$134.36	\$233.57
1ø Average Long Service- Gr	reater than 100 ft (svc with one pole) = (book value + remova	)	\$516.18	\$480.94	\$997.13

### Tariff Sheet No. 5.516 (3.7.2)

	Current			CPI -U		Pı	oposed
	Deposit						)eposit
Density Class	2021		2020	2021	2022		2023
Urban commercial or residential (\$/mile)	\$	10,391	1.20%	4.70%	7.10%	\$	11,742
Rural commercial or residential (\$/mile)	\$	5,940	1.20%	4.70%	7.10%	\$	6,712
Per Lot Subdivisions (\$/lot)	\$	49	1.20%	4.70%	7.10%	\$	55

#### Table I OPERATING COSTS

	OPERATING COSTS								
						ОН	UG	3-Yr Average Allocated Overhead	3-Yr Average Allocated Underground
		2020 Actual \$	2021 Actual \$	2022 Actual \$	3-Yr Average \$	Ratio	Ratio	\$	\$
Overhead - Blanket Account D-CRR-Voltage-OH (NEW)	New SAP/Funding project CRR-02630, CRR-02879	\$263,090	\$348,496	\$353,378	\$321,655	100.0%	0.0%	\$321,655	\$0
PRE - Dist Line - Fault Indicators	PRE-05080	\$13,005		\$119,523	\$51,274	100.0%	0.0%	\$51,274	\$0 \$0
Distr - Maint - Corrective - OH Line	CRR-02682, CRR-03641, PRE-04820	\$10,246,537	\$11,879,084	\$13,017,157	\$11,714,259	100.0%	0.0%	\$11,714,259	\$0
Distribution - Maint - OH System Improvements		\$0		\$0	\$0	100.0%	0.0%	\$0	\$0
Distribution - Maint - Mgmt & Coordination Distr - Maint - Preventative - OH Line	PRE-02805, PRE-02627	\$0 \$6,448,231	\$0 \$2,688,179	\$0 \$4,092,697	\$0 \$4,409,702	100.0% 100.0%	0.0%	\$0 \$4,409,702	\$0 \$0
Distr - Maint - Treventative - Off Elife	CRR-02625, CRR-07052	\$687,761	\$943,358	\$4,401,566	\$2,010,895	100.0%	0.0%	\$2,010,895	\$0
Distr - Maint - Pole Inspect & Change-Outs	PRE-02624	\$11,097,693	\$4,736,162	\$8,124,822	\$7,986,226	100.0%	0.0%	\$7,986,226	\$0
Distr - Maint - Damage Replacement - OH Line	CRR-02629, CRR-07072 CRR-12716	\$2,655,044	\$2,312,464	\$1,921,586	\$2,296,365	100.0% 100.0%	0.0%	\$2,296,365	\$0 \$0
CRR - Dist Line - Reclosers / Trip-savers Distr - Maint - Capacitors	PRE-02631, CRR-02628	\$512,584 \$298,534	\$98,949 \$451,224	\$247,951 \$541,916	\$286,495 \$430,558	100.0%	0.0%	\$286,495 \$430,558	\$0 \$0
Distr - Maint - Trouble - Non-Storm		\$0		\$0	\$0	0.0%	0.0%	\$0	\$0
Distr - Maint - Tree Trimming - Planned		\$0		\$0	\$0	0.0%	0.0%	\$0	\$0
Distr - Env - Train/Permit/Inspect/Audit/Protect Distr - Maint - Tree Trimming - Unplanned		\$0 \$0		\$0 \$0	\$0 \$0	100.0% 0.0%	0.0%	\$0 \$0	\$0 \$0
Distr - Maint - Pole Reinforcements	PRE-03670	\$434,229		\$590,667	\$341,632		0.0%	\$341,632	\$0
Distr - Maint - Pole CLAs & Change-Outs	PRE-03640	\$67,705		\$44,184	\$41,079	100.0%	0.0%	\$41,079	\$0
Distr - Maint - Infrared Thermography	ODD 00000	\$0		\$0	\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Services - OH Line	CRR-02680 Subtotal	<u>\$966,573</u> \$33,690,986		\$1,021,164 \$34,476,611	\$969,310 \$30,859,449	0.0%	0.0%	\$0	\$0
Underground - Blanket Account									
D-CRR-Voltage-UG	CRR-03814	\$23,632		\$68,250	\$49,501	0.0%	100.0%	\$0	\$49,501
D-PRE-Transformers-UG Distr - Maint - Corrective - UG Line	PRE-03623 CRR-02644, CRR-03642	\$2,084,383 10,427,986		\$2,014,070 \$9.918.751	\$2,650,068 \$9,958,626	0.0% 0.0%	100.0% 100.0%	\$0 \$0	\$2,650,068 \$9,958,626
Distribution - Maint - UG System Improvements	O141102044, O141100042	0,427,000		\$0	\$0	0.0%	100.0%	\$0	\$0
Distribution - Maint - Mgmt & Coordination		0		\$0	\$0	0.0%	100.0%	\$0	\$0
Distr - Maint - Preventative - UG Line	PRE-02809, PRE-02646	\$9,506,194		\$5,167,209	\$6,993,928	0.0%	100.0%	\$0 \$0	\$6,993,928
Distr - Maint - Network Corrective Distr - Maint - Network Preventative	CRR-02636 PRE-04357	\$33,100 \$25,243		\$114,018 \$0	\$84,416 \$18,980	0.0%	100.0% 100.0%	\$0 \$0	\$84,416 \$18,980
Distr - Maint - Capacitors - UG	CRR-02651, PRE-03813	\$53,629		\$62,679	\$111,894	0.0%	100.0%	\$0	\$111,894
Distr - Maint - UG Cable Rplcmnt - Planned	CRR-02649	\$2,906,062		\$2,673,149	\$2,888,289	0.0%	100.0%	\$0	\$2,888,289
Distr - Maint - Trouble - UG Storm Distr - Maint - Damage Replacement - UG Line	CRR-02645 CRR-02652	\$265,878 \$1,211,387	\$309,067 \$1,362,471	\$444,257 \$1,284,984	\$339,734 \$1,286,281	0.0%	100.0% 100.0%	\$0 \$0	\$339,734 \$1,286,281
Distr - Maint - UG Cable Rplcmnt - Unplanned	O1117-02002	\$0		\$0	\$0	0.0%	100.0%	\$0	\$0
Distr - Maint - Services - UG Line	CRR-02679	\$812,991	\$978,094	\$1,079,190	\$956,758	0.0%	0.0%	\$0	\$0
	Subtotal	\$27,350,485	\$25,838,385	\$22,826,557	\$25,338,476				
Overhead - O&M Account	ODD 00000 ODD 00070	045.044	400 570	040 404	004.500	400.00/	0.00/	004 500	***
D-CRR-Voltage-OH (NEW) Distr - Maint - Corrective - OH Line	CRR-02630, CRR-02879 CRR-02858, CRR-02682	\$45,644 \$7,002,950		\$48,484 \$1,941,834	\$61,569 \$5,583,619	100.0% 100.0%	0.0%	\$61,569 \$5,583,619	\$0 \$0
Distribution - Maint - OH System Improvements	0141-02000, 0141-02002	\$0		\$0	\$0	100.0%	0.0%	\$0	\$0
Distribution - Maint - Mgmt & Coordination		\$0		\$0	\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Preventative - OH Line Distr - Maint - Trouble - OH Storm	PRE-02627, PRE-02867, PRE-02868 CRR-02625, CRR-02877	\$124,407 \$593,755	\$245,449 \$1,130,128	\$371,966 \$546,182	\$247,274 \$756,688	100.0% 100.0%	0.0%	\$247,274 \$756,688	\$0 \$0
Distr - Maint - Pole Inspect & Change-Outs	PRE-04039, PRE-02859	\$904,908		\$1,645,550	\$1,126,238	100.0%	0.0%	\$1,126,238	\$0 \$0
Distr - Maint - Damage Replacement - OH Line	CRR-02861, CRR-02629	\$184,081	\$219,238	\$280,490	\$227,936	100.0%	0.0%	\$227,936	\$0
Distr - Maint - Capacitors	CRR-02628, CRR-02857	\$29,990	\$115,613	\$70,909	\$72,171	100.0%	0.0%	\$72,171	\$0 \$0
Distr - Maint - Trouble - Non-Storm CRR - Dist Line - Storms - OH - Restoration	CRR-02876 CRR-10852	\$2,814,800 \$0		\$3,505,065 \$0	\$3,158,874 \$0	0.0% 0.0%	0.0%	\$0 \$0	\$0 \$0
CRR - Dist Line - Reclosers / Trip-savers	CRR-12716	\$137	\$0	\$992	\$376	0.0%	0.0%	\$0	\$0
Distr - Maint - Tree Trimming - Planned	PRE-04067	\$16,990,720		\$19,782,290	\$18,719,527	0.0%	0.0%	\$0	\$0
Distr - Env - Train/Permit/Inspect/Audit/Protect Distr - Maint - Tree Trimming - Unplanned	OPS-04740, PRE-04060 CRR-03621	\$26,923 \$2,026,699		\$103 \$1,661,966	\$9,007 \$1,786,996	100.0% 0.0%	0.0%	\$9,007 \$0	\$0 \$0
Distr - Maint - Pole Reinforcements	G111-03021	\$2,020,033		\$0	\$0	100.0%	0.0%	\$0	\$0 \$0
Distr - Maint - Pole CLAs & Change-Outs	PRE-04062	\$0		\$0	\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Infrared Thermography	CDD 02600 CDD 02074	\$0 \$839.741		\$0	\$0 \$845.485	100.0%	0.0%	\$0	\$0 \$0
Distr - Maint - Services - OH Line	CRR-02680, CRR-02871 Subtotal	\$839,741 \$31,584,755		\$864,462 \$30,720,293	\$845,485 \$32,595,761	0.0%	0.0%	\$0	\$0
Underground - O&M Account									
D-PRE-Transformers-UG	PRE-03623	\$0		\$2,930	\$1,908	0.0%	100.0%	\$0	\$1,908
Distr - Maint - Corrective - UG Line Distribution - Maint - UG System Improvements	CRR-02860, CRR-02644	1,710,255 \$0	\$1,886,814 \$0	\$2,596,329 \$0	\$2,064,466 \$0	0.0%	100.0% 100.0%	\$0 \$0	\$2,064,466 \$0
Distribution - Maint - OG System Improvements  Distribution - Maint - Mgmt & Coordination		\$0 \$0	\$0 \$0	\$0 \$0	\$0	0.0%	100.0%	\$0 \$0	\$0 \$0
Distr - Maint - Preventative - UG Line	PRE-02869, PRE-02809, PRE-02646, PRE-02870	\$220,874	\$245,420	\$3,032	\$156,442	0.0%	100.0%	\$0	\$156,442
Distr - Maint - Network Corrective	CRR-02636, CRR-02863	\$5,573 \$660,604		\$45,856	\$26,697	0.0%	100.0%	\$0 \$0	\$26,697
Distr - Maint - Network Preventative Distr - Locate Facilities	PRE-02864 PRE-04063	\$660,604 \$948,183		\$389,680 \$944,535	\$486,152 \$964,502	0.0% 0.0%	100.0% 100.0%	\$0 \$0	\$486,152 \$964,502
Distr - Maint - UG Cable Rplcmnt - Planned	CRR-03635, CRR-02649	\$23,766	\$240	\$10,496	\$11,501	0.0%	100.0%	\$0	\$11,501
Distr - Maint - Trouble - UG Storm	CRR-02878	\$19,316		\$23,300	\$16,471	0.0%	100.0%	\$0	\$16,471
D-CRR-Capacitors-UG D-CRR-Storms-UG	CRR-02651 CRR-02645	\$0 \$0		\$0 \$0	\$0 \$0	0.0%	100.0% 100.0%	\$0 \$0	\$0 \$0
Distr - Maint - Damage Replacement - UG Line	CRR-02645 CRR-02862, CRR-02652	\$174,701		\$253,176	\$227,227	0.0%	100.0%	\$0 \$0	\$0 \$227,227
Distr - Maint - UG Cable Rplcmnt - Unplanned		\$0	\$0	\$0	\$0	0.0%	100.0%	\$0	\$0
Distr - Maint - Services - UG Line	CRR-02679, CRR-02872 Subtotal	<u>\$712,258</u> \$4,475,530		\$533,123 \$4,802,457	\$705,241 \$4,660,607	0.0%	0.0%	\$0	\$0
	- Cupiciui	φ4,47 0,530	ψ4,103,033	φ4,002,407	φ-+,000,007			\$37,974,641	\$28,337,083

### <u>Table II</u> PRIMARY VOLTAGE SYSTEM

	2020 Actual \$	2021 Actual \$	2022 Actual \$	3-Yr Average \$	OH Ratio	UG Ratio	Overhead \$	Underground \$
Distribution - Maint - Trouble Calls - Non-storm Blanket O&M	\$0 \$2,814,800	\$0 \$3,156,758	\$0 \$3,505,065	\$0 \$3,158,874	81.0% 81.0%	19.0% 19.0%	\$0 \$2,558,688	\$0 \$600,186
Operating Cost Total from Table I	, , , , , , , , , , , , , , , , , , , ,	, , , , , , ,	, , , , , , , , , , , , , , , , , , , ,	, , , , , ,			\$37,974,641	\$28,337,083
			(A	) 3 Yr Avg Annual	Operatio	nal Cost	\$40,533,330	\$28,937,269
	2020 Actual \$	2021 Actual \$	2022 Actual \$	3-Yr Average \$	OH Ratio	UG Ratio	Allocated Overhead \$	Allocated Underground \$
Distr - Maint - Tree Trimming - Planned Blanket O&M	\$0 \$16,990,720	\$0 \$19,385,570	\$0 \$19,782,290	\$0 \$18,719,527	94.6% 94.6%	5.4% 5.4%	\$0 \$17,714,713	\$0 \$1,004,814
Distr - Maint - Tree Trimming - Unplanned Blanket O&M	\$0 \$2,026,699	\$0 \$1,672,323	\$0 \$1,661,966	\$0 \$1,786,996	94.6% 94.6%	5.4% 5.4%	\$0 \$1,691,075	\$0 \$95,921
			(B) 3	Yr Avg Annual Lir	ne Clearar	nce Cost	\$19,405,787	\$1,100,735
Annual Estimated Storm Costs Storm Damage Annual Accrual Percent for Distribution Lines & Substations Percent for Substations Percent for Distribution Lines Overall Distribution Percent Storm Cost Distribution Lines	\$729,515	\$1,874,575	\$120,369,271	\$ 40,991,120 (C) Estimated A		1.0% _ orm Cost	\$40,581,209 <b>\$40,581,209</b>	\$13,020 <b>\$13</b> ,020
				(0) 2011111101171		5551	¥ 10,00 1,200	¥10,020
Pole Attachment Revenue	\$4,591,960	\$4,531,621	\$4,571,405 ( <b>D</b> ) 201	\$4,564,995 <b>0 Annual Pole Att</b>		0.0% – Revenue	\$4,564,995 <b>\$4,564,995</b>	\$0 <b>\$0</b>
Table III SERVICE CONDUCTOR								
Distr - Maint - Services - OH Line Blanket O&M	\$966,573 \$839,741	\$920,193 \$832,252	\$1,021,164 \$864,462	\$969,310 \$845,485		0.0% 0.0%	\$969,310 \$845,485	\$0 \$0
Distr - Maint - Services - UG Line	****	****	44.070.400	4050 750	0.00/	400.00/	•	4050 750
Blanket O&M	\$812,991 \$712,258	\$978,094 \$870,342	\$1,079,190 \$533,123	\$956,758 \$705,241	0.0% 0.0%	100.0% 100.0%	\$0 \$0	\$956,758 \$705,241
			(A	) 3 Yr Avg Annual	Operatio	nal Cost	\$1,814,795	\$1,661,999
<u>Table IV</u> <u>ALLOCATION FACTORS</u>								
Line Clearance 2022 No. of company owned distribution poles 2022 No. of Terminal Poles on System	267,450 14,356	94.6% 5.4%						
Distribution - Maint - Trouble Calls - Non-storm		2022	2022					
No Outage Events (N) Outage Sys Avg Duration (L-Bar) Trouble Calls Weighted Avg Proportion (N) X (L-Bar) Allocation Percentage	2022 Entire System 9,212 141.78 1,306,077	Overhead System 7,802 135.66 1,058,419 81.0%	Underground System 1,410 175.65 247,667 19.0%					
Service Count (Based on Metered Accounts)  Overhead Single & Three Phase (Excluding Multi-Family)	No of Services (Ba 236,262	sed on Metered A	accounts)					
Underground Single Phase (Excluding Multi-Family)	301,439							

Allocated

Allocated

#### Table V (A) NET PRESENT VALUE LIFECYCLE COST CALCULATION (Primary Voltage System - Installation of Facilities In Subdivisions)

Assumptions: Inflation Rate 7.10 % 7.13 % 35 Yrs Discount Rate Book Life Pole Attach Revenue Increase 0.9 %

Overhead System										
Yr	( <u>A)</u> 3 Yr Avg Annual Operational Cost (\$)	(D) 3 Yr Avg Annual Pole Attachment Revenue (\$)	(A)+(D) 3 Yr Avg Annual Operational Cost Incl Lost Attachment Revenue(\$)	(B) 3 Yr Avg Annual Line Clearance Cost (\$)	(C) Estimated Annual Storm Cost (\$)	(A)+(B)+(C)+ (D) NPV Incl Storm (\$)	(A)+(B)+(D) NPV Excl Storm (\$)	(C) NPV Storm On (\$)		
1	\$ 40,533,330	\$ (4,564,995)	\$ 35,968,334	\$ -	\$ 40,581,209	\$ 76,549,543	\$35,968,334	\$40,581,209		
2		(4,605,073)		-	43,462,475	\$ 76,793,240	\$36,223,395	\$40,569,845		
3		. , , ,	\$ 41,847,889	-	46,548,311	\$ 77,021,396	\$36,462,912	\$40,558,484		
4	49,794,422		\$ 45,108,136	-	49,853,241	\$ 77,234,917	\$36,687,791	\$40,547,126		
5		(4,727,428)	. , ,	-	53,392,821	\$ 77,434,660	\$36,898,888	\$40,535,772		
6			\$ 52,347,312	-	57,183,711	\$ 77,621,427	\$37,097,006	\$40,524,420		
7	61,171,496	(4,810,799)		-	61,243,755	\$ 77,795,976	\$37,282,904	\$40,513,072		
8	65,514,673	(4,853,034)		-	65,592,061	\$ 77,959,022	\$37,457,294	\$40,501,727		
9	70,166,214	(4,895,640)	\$ 65,270,575	-	70,249,098	\$ 78,111,235	\$37,620,849	\$40,490,385		
10	75,148,016	(4,938,620)	\$ 70,209,396	-	75,236,783	\$ 78,253,248	\$37,774,201	\$40,479,047		
11	80,483,525	(4,981,977)	\$ 75,501,547	-	80,578,595	\$ 78,385,657	\$37,917,946	\$40,467,711		
12	86,197,855	(5,025,715)		-	86,299,675	\$ 78,509,023	\$38,052,644	\$40,456,379		
13	92,317,903	(5,069,837)	\$ 87,248,065	-	92,426,952	\$ 78,623,874	\$38,178,824	\$40,445,050		
14	98,872,474	(5,114,347)	\$ 93,758,127	-	98,989,266	\$ 78,730,707	\$38,296,983	\$40,433,724		
15	105,892,419	(5,159,247)	\$ 100,733,173	50,697,187	106,017,504	\$ 98,159,836	\$57,737,435	\$40,422,401		
16	113,410,781	(5,204,541)	\$ 108,206,240	54,296,687	113,544,747	\$ 98,246,597	\$57,835,516	\$40,411,08		
17	121,462,947	(5,250,233)	\$ 116,212,714	58,151,752	121,606,424	\$ 98,326,667	\$57,926,902	\$40,399,765		
18	130,086,816	(5,296,326)	\$ 124,790,490	62,280,526	130,240,480	\$ 98,400,436	\$58,011,984	\$40,388,452		
19	139,322,980	(5,342,824)	\$ 133,980,156	66,702,444	139,487,554	\$ 98,468,272	\$58,091,131	\$40,377,141		
20	149,214,911	(5,389,730)	\$ 143,825,182	71,438,317	149,391,170	\$ 98,530,522	\$58,164,688	\$40,365,835		
21	159,809,170	(5,437,048)	\$ 154,372,123	76,510,438	159,997,943	\$ 98,587,513	\$58,232,982	\$40,354,53		
22	171,155,621	(5,484,781)	\$ 165,670,840	81,942,679	171,357,797	\$ 98,639,551	\$58,296,321	\$40,343,230		
23	183,307,670	(5,532,933)	\$ 177,774,737	87,760,609	183,524,201	\$ 98,686,927	\$58,354,994	\$40,331,933		
24	196,322,515	(5,581,508)	\$ 190,741,007	93,991,612	196,554,419	\$ 98,729,913	\$58,409,274	\$40,320,638		
25	210,261,413	(5,630,509)	\$ 204,630,904	100,665,017	210,509,783	\$ 98,768,765	\$58,459,417	\$40,309,347		
26	225,189,974	(5,679,941)	\$ 219,510,033	107,812,233	225,455,977	\$ 98,803,725	\$58,505,666	\$40,298,059		
27	241,178,462	(5,729,807)	\$ 235,448,655	115,466,901	241,463,352	\$ 98,835,021	\$58,548,247	\$40,286,774		
28	258,302,133	(5,780,110)	\$ 252,522,023	123,665,051	258,607,250	\$ 98,862,867	\$58,587,375	\$40,275,493		
29	276,641,584	(5,830,855)	\$ 270,810,729	132,445,270	276,968,364	\$ 98,887,465	\$58,623,251	\$40,264,214		
30	296,283,137	(5,882,046)	\$ 290,401,091	141,848,884	296,633,118	\$ 98,909,005	\$58,656,066	\$40,252,939		
31	317,319,239	(5,933,686)	\$ 311,385,554	151,920,155	317,694,070	\$ 98,927,666	\$58,685,999	\$40,241,667		
32	339,848,905	(5,985,779)	\$ 333,863,127	162,706,486	340,250,348	\$ 98,943,616	\$58,713,218	\$40,230,398		
33	363,978,178	(6,038,329)	\$ 357,939,848	174,258,646	364,408,123	\$ 98,957,014	\$58,737,882	\$40,219,132		
34	389,820,628	(6,091,341)	\$ 383,729,287	186,631,010	390,281,100	\$ 98,968,010	\$58,760,140	\$40,207,869		
35	417,497,893	(6,144,819)	\$ 411,353,074	199,881,812	417,991,058	\$ 98,976,743	\$58,780,133	\$40,196,610		
					SUM	\$ 3,161,640,056	\$ 1,748,038,595	\$ 1,413,601,4		

NPV = (Annual Cost)/(1+(Discount Rate/100))^(Year -1)

### <u>Table V (B)</u> NET PRESENT VALUE LIFECYCLE COST CALCULATION (Primary Voltage System - Installation of Facilities In Subdivisions)

Assumptions: Inflation Rate 7.10 % 7.13 % 35 Yrs 0.9 % Discount Rate Book Life Pole Attach Revenue Increase

Underground System									
	(A)	<u>(B)</u>							
	3 Yr Avg	3 Yr Avg	<u>(C)</u>						
	Annual	Annual Line	Estimated		(A)+(B)+(C)		(A)+(B)	(C)	
	Operational	Clearance	Annual Storm	N	PV Incl Storm	N	PV Excl Storm	NPV Storm	
Yr	Cost (\$)	Cost (\$)	Cost (\$)		<u>(\$)</u>		<u>(\$)</u>	Only (\$)	
1	\$ 28,937,269	\$ -	\$ 13,020	\$	28,950,290	\$	28,937,269	\$13,020	
2	30,991,815	-	13,945	\$	28,942,183	\$	28,929,166	\$13,017	
3	33,192,234	-	14,935	\$	28,934,078	\$	28,921,065	\$13,013	
4	35,548,883	-	15,995	\$	28,925,975	\$	28,912,966	\$13,010	
5	38,072,853	-	17,131	\$	28,917,875	\$	28,904,869	\$13,006	
6	40,776,026	-	18,347	\$	28,909,777	\$	28,896,775	\$13,002	
7	43,671,124	-	19,650	\$	28,901,681	\$	28,888,683	\$12,999	
8	46,771,774	-	21,045	\$	28,893,588	\$	28,880,593	\$12,995	
9	50,092,570	-	22,539	\$	28,885,497	\$	28,872,505	\$12,991	
10	53,649,142	-	24,140	\$	28,877,408	\$	28,864,420	\$12,988	
11	57,458,231	-	25,854	\$	28,869,321	\$	28,856,337	\$12,984	
12	61,537,765	-	27,689	\$	28,861,237	\$	28,848,256	\$12,980	
13	65,906,947	-	29,655	\$	28,853,155	\$	28,840,178	\$12,977	
14	70,586,340	-	31,761	\$	28,845,075	\$	28,832,102	\$12,973	
15	75,597,970	2,875,646	34,016	\$	29,933,425	\$	29,920,455	\$12,969	
16	80,965,426	3,079,817	36,431	\$	29,925,042	\$	29,912,077	\$12,966	
17	86,713,971	3,298,484	39,017	\$	29,916,662	\$	29,903,700	\$12,962	
18	92,870,663	3,532,677	41,788	\$	29,908,285	\$	29,895,326	\$12,959	
19	99,464,480	3,783,497	44,754	\$	29,899,909	\$	29,886,955	\$12,955	
20	106,526,459	4,052,125	47,932	\$	29,891,537	\$	29,878,585	\$12,951	
21	114,089,837	4,339,826	51,335	\$	29,883,166	\$	29,870,218	\$12,948	
22	122,190,216	4,647,953	54,980	\$	29,874,798	\$	29,861,853	\$12,944	
23	130,865,721	4,977,958	58,884	\$	29,866,432	\$	29,853,491	\$12,940	
24	140,157,187	5,331,393	63,064	\$	29,858,068	\$	29,845,131	\$12,937	
25	150,108,347	5,709,922	67,542	\$	29,849,707	\$	29,836,774	\$12,933	
26	160,766,040	6,115,326	72,337	\$	29,841,348	\$	29,828,418	\$12,930	
27	172,180,429	6,549,515	77,473	\$	29,832,991	\$	29,820,065	\$12,926	
28	184,405,239	7,014,530	82,974	\$	29,824,637	\$	29,811,715	\$12,922	
29	197,498,011	7,512,562	88,865	\$	29,816,285	\$	29,803,366	\$12,919	
30	211,520,370	8,045,954	95,175	\$	29,807,936	\$	29,795,020	\$12,915	
31	226,538,316	8,617,216	101,932	\$	29,799,588	\$	29,786,677	\$12,912	
32	242,622,537	9,229,039	109,169	\$	29,791,243	\$	29,778,336	\$12,908	
33	259,848,737	9,884,300	116,920	\$	29,782,901	\$	29,769,997	\$12,904	
34	278,297,997	10,586,086	125,221	\$	29,774,561	\$	29,761,660	\$12,901	
35	298,057,155	11,337,698	134,112	\$	29,766,223	\$	29,753,326	\$12,897	
			SUM	\$	1,031,411,881	\$	1,030,958,328	\$ 453,553	

### <u>Table VI (A)</u> NET PRESENT VALUE LIFECYCLE COST CALCULATION (Services)

Assumptions: Inflation Rate

7.10 % 7.13 % 35 Yrs 0.9 % Discount Rate Book Life Pole Attach Revenue Increase

Overhead System												
Yr	(A) 3 Yr Avg Annual Operational Cost (\$)	(D) 3 Yr Avg Annual Pole Attachment Revenue (\$)	<u>O</u> <u>Co</u>	(A)+(D) 3 Yr Avg Annual perational est Incl Lost ttachment evenue(\$)		(B) 3 Yr Avg nnual Line Clearance Cost (\$)	(C) Estimated Annual Storm Cost (\$)		.)+(B)+(C)+ (D) PV Incl Storm (\$)		A)+(B)+(D) V Excl Storm (\$)	(C) NPV Storm Only (\$)
<u></u>		\$ -	\$	1,814,795	\$	<u>σσσε (ψ/</u>	\$ -	\$	1,814,795		\$1,814,795	\$0
2		Ψ -	\$	1,943,645	Ψ	- -	Ψ -	\$	1,814,287		\$1,814,287	\$0 \$0
3		_	\$	2,081,644		_	_	\$	1,813,779		\$1,813,779	\$0 \$0
4		-	\$	2,229,441		-	-	\$	1,813,271		\$1,813,271	\$0 \$0
5		-	\$	2,387,731		-	- -	\$	1,812,763		\$1,812,763	\$0 \$0
6		<del>-</del>	\$	2,557,751		-	-	\$	1,812,765		\$1,812,765	\$0 \$0
7		-	\$	2,738,826		-	-	\$	1,811,748		\$1,811,748	\$0 \$0
8		-	\$	2,730,620		-	-	\$	1,811,740		\$1,811,241	\$0 \$0
9	, ,	- -	\$	3,141,545		-	-	\$	1,810,733		\$1,810,733	\$0 \$0
10		-	\$	3,364,595		-	-	\$	1,810,733		\$1,810,733	\$0 \$0
11	, ,	-	\$	3,603,481		-	-	\$	1,810,220		\$1,809,719	\$0 \$0
12		-	\$	3,859,329		-	-	\$			\$1,809,719	\$0 \$0
13	, ,	-	Ф \$	4,133,341		-	-	\$	1,809,213		\$1,808,706	\$0 \$0
14		-	Ф \$			-	-	\$	1,808,706			\$0 \$0
15		-	ъ \$	4,426,808		-	-	\$	1,808,199		\$1,808,199	\$0 \$0
16	, ,	-	\$ \$	4,741,111 5.077.730		-	-	\$	1,807,693		\$1,807,693 \$1,807,187	\$0 \$0
17	-,- ,	-	\$	5,438,249		-	-	э \$	1,807,187		\$1,806,681	\$0 \$0
18	-,, -	-	ъ \$			-	-	\$	1,806,681			\$0 \$0
	, ,	-		5,824,365		-	-	\$	1,806,175		\$1,806,175	
19	, ,	-	\$	6,237,895		-			1,805,669		\$1,805,669	\$0 \$0
20	-,,	-	\$	6,680,785		-	-	\$	1,805,163		\$1,805,163	\$0 \$0
21	, ,	-	\$	7,155,121		-	-	\$	1,804,658		\$1,804,658	<b>\$</b> 0
22	, ,	=	\$	7,663,135		-	-	\$	1,804,153		\$1,804,153	<b>\$</b> 0
23	-, - ,	-	\$ \$	8,207,217		-	-	\$ \$	1,803,647		\$1,803,647	\$0 \$0
24	-,,	-		8,789,930		-	-		1,803,142		\$1,803,142	\$0
25	, ,	-	\$	9,414,015		-	-	\$	1,802,637		\$1,802,637	\$0
26		-		10,082,410		-	-	\$	1,802,133		\$1,802,133	\$0 \$0
27	, ,	-	\$	10,798,261		-	-	\$	1,801,628		\$1,801,628	\$0 \$0
28	, ,	-		11,564,937		-	-	\$	1,801,123		\$1,801,123	<b>\$</b> 0
29	, ,	-		12,386,048		-	-	\$	1,800,619		\$1,800,619	\$0
30	-,, -	-		13,265,457		-	=	\$	1,800,115		\$1,800,115	<b>\$</b> 0
31	, . ,	-		14,207,305		-	-	\$	1,799,611		\$1,799,611	\$0
32		-		15,216,023		-	-	\$	1,799,107		\$1,799,107	\$0
33	, ,	-		16,296,361		-	-	\$	1,798,603		\$1,798,603	<b>\$</b> 0
34	,,	-		17,453,403		-	-	\$	1,798,099		\$1,798,099	\$0
35	18,692,594	-	\$	18,692,594		-	- SUM	\$	1,797,596 63,216,373	\$	\$1,797,596 63,216,373	\$0 \$ -

NPV = (Annual Cost)/(1+(Discount Rate/100))^(Year -1)

### <u>Table VI (B)</u> <u>NET PRESENT VALUE LIFECYCLE COST CALCULATION</u> (Services)

Assumptions: Inflation Rate Discount Rate Book Life 7.10 % 7.13 % 35 Yrs 0.9 % Pole Attach Revenue Increase

			Undergrou	nd :	System			
	(A) 3 Yr Avg Annual	(B) 3 Yr Avg Annual Line	(C) Estimated		(A)+(B)+(C)		(A)+(B)	<u>(C)</u>
Yr	Operational Cost (\$)	Clearance Cost (\$)	Annual Storm Cost (\$)	NP	V Incl Storm (\$)	NP	V Excl Storm (\$)	NPV Storm Only (\$)
1	\$ 1,661,999	\$ -	\$ -	\$	1,661,999	\$	1,661,999	\$0
2	1,780,001	Φ -	φ -	\$	1,661,534	φ \$	1,661,534	\$0 \$0
3	1,906,381	_	_	\$	1,661,069	\$	1,661,069	\$0 \$0
4	2,041,734	_	_	\$	1,660,603	\$	1,660,603	\$0
5	2,186,698	_	=	\$	1,660,138	\$	1,660,138	\$0
6	2,341,953	_	=	\$	1,659,674	\$	1,659,674	\$0
7	2,508,232	_	_	\$	1,659,209	\$	1,659,209	\$0
8	2,686,316	-	-	\$	1,658,744	\$	1,658,744	\$0
9	2,877,045	-	-	\$	1,658,280	\$	1,658,280	\$0
10	3,081,315	-	-	\$	1,657,815	\$	1,657,815	\$0
11	3,300,088	_	-	\$	1,657,351	\$	1,657,351	\$0
12	3,534,395	=	-	\$	1,656,887	\$	1,656,887	\$0
13	3,785,337	=	-	\$	1,656,423	\$	1,656,423	\$0
14	4,054,095	=	-	\$	1,655,959	\$	1,655,959	\$0
15	4,341,936	_	_	\$	1,655,495	\$	1,655,495	\$0
16	4,650,214	=	-	\$	1,655,032	\$	1,655,032	\$0
17	4,980,379	=	-	\$	1,654,568	\$	1,654,568	\$0
18	5,333,986	_	_	\$	1,654,105	\$	1,654,105	\$0
19	5,712,699	_	_	\$	1,653,642	\$	1,653,642	\$0
20	6,118,300	_	_	\$	1,653,179	\$	1,653,179	\$0
21	6,552,700	_	_	\$	1,652,716	\$	1,652,716	\$0
22	7,017,941	_	_	\$	1,652,253	\$	1,652,253	\$0
23	7,516,215	_	_	\$	1,651,790	\$	1,651,790	\$0
24	8,049,866	_	_	\$	1,651,328	\$	1,651,328	\$0
25	8,621,407	_	_	\$	1,650,865	\$	1,650,865	\$0
26	9,233,527	_	-	\$	1,650,403	\$	1,650,403	\$0
27	9,889,107	-	-	\$	1,649,941	\$	1,649,941	\$0
28	10,591,234	_	-	\$	1,649,479	\$	1,649,479	\$0
29	11,343,211	_	-	\$	1,649,017	\$	1,649,017	\$0
30	12,148,579	-	-	\$	1,648,555	\$	1,648,555	\$0
31	13,011,129	-	-	\$	1,648,093	\$	1,648,093	\$0
32	13,934,919	-	-	\$	1,647,632	\$	1,647,632	\$0
33	14,924,298	-	-	\$	1,647,170	\$	1,647,170	\$0
34	15,983,923	_	-	\$	1,646,709	\$	1,646,709	\$0
35	17,118,782	-	-	\$	1,646,248	\$	1,646,248	\$0
	, , ,		SUM		57,893,905	\$	57,893,905	\$ -
				•	, ,	•	, ,	

#### Table VII Net Present Value of Operational Costs Per Mile & Per Service Calculations

#### **Overhead**

Primary Voltage System  NPV Life Cycle Cost  System Miles OH  NPV Life Cycle Cost / Mile	Incl Storm \$3,161,640,056 6,202 \$509,777.50	Excl Storm \$1,748,038,595 6,202 \$281,850.79	6,202
Services  NPV Life Cycle Cost  Number of Services  NPV Life Cycle Cost / Service	Incl Storm \$63,216,373 236,262 \$267.57	Excl Storm \$63,216,373 236,262 \$267.57	\$0 Storm Only \$0 236,262 \$0.00
	<u>Underground</u>		
Primary Voltage System  NPV Life Cycle Cost  System Miles OH  NPV Life Cycle Cost / Mile	Incl Storm \$1,031,411,881 6,174 \$167,057.32	Excl Storm \$1,030,958,328 6,174 \$166,983.86	Storm Only \$453,553 6,174 \$73.46
NPV Life Cycle Cost Number of Services NPV Life Cycle Cost / Service	Incl Storm \$57,893,905 301,439 \$192.06	Excl Storm \$57,893,905 301,439 \$192.06	Storm Only \$0 301,439 \$0.00
Primary Voltage System  NPV Life Cycle Cost / Mile	Differential Incl Storm -\$342,720.18	Excl Storm -\$114,866.93	Storm Only -\$227,853.25
Services  NPV Life Cycle Cost / Service	Incl Storm -\$75.51	Excl Storm -\$75.51	Storm Only \$0.00

#### Table VIII **Net Present Value of Operational Costs** Per Lot Calculations

### Low Density Subdivision Overhead

	Number of Lots	Miles of Line	Incl Storm \$ / Lot	Excl Storm \$ / Lot	Storm Only \$ / Lot
Primary Voltage System <sup>1</sup>	210	1.92	\$4,660.82	\$2,576.92	\$2,083.90
Services	NA	NA	\$267.57	\$267.57	\$0.00
Primary & Service			\$4,928.39	\$2,844.49	\$2,083.90
		Underground			
Primary Voltage System <sup>1</sup>	210	2.99	\$2,378.58	\$2,377.53	\$1.05
Services	NA	NA	\$192.06	\$192.06	\$0.00
Primary & Service			\$2,570.64	\$2,569.59	\$1.05
Primary & Service		Differential	-\$2,357.75	-\$274.90	-\$2,082.85

	High Densi	ty Subdivision			
		<u>Overhead</u>			
			Incl Storm	Excl Storm	Storm Only
	Number of Lots	Miles of Line	\$ / Lot	\$ / Lot	\$ / Lot
Primary Voltage System <sup>1</sup>	176	1.17	\$3,388.86	\$1,873.67	\$1,515.19
Services	NA	NA	\$267.57	\$267.57	\$0.00
Primary & Service			\$3,656.43	\$2,141.24	\$1,515.19
		Underground			
Primary Voltage System <sup>1</sup>	176	1.07	\$1,015.63	\$1,015.19	\$0.45
Services	NA	NA	\$192.06	\$192.06	\$0.00
Primary & Service			\$1,207.69	\$1,207.25	\$0.45
Primary & Service		Differential	-\$2,448.74	-\$933.99	-\$1,514.74

| Note | 1. Formula = (NPV Life Cycle Cost / Mile) x (Miles of Line) / (Number of Lots)

#### <u>Table IX</u> 2022 O&M - FORM 13

					2022 Allocated	2022 Allocated
			OH	UG	Overhead	Underground
Overhead Blanket Assessmt		2022 Actual \$	Ratio	Ratio	\$	\$
Overhead - Blanket Account D-CRR-Voltage-OH (NEW)		\$353,378	100.0%	0.0%	\$353,378	\$0
PRE - Dist Line - Fault Indicators		\$119,523		0.0%	\$119,523	\$0
Distr - Maint - Corrective - OH Line		\$13,017,157	100.0%	0.0%	\$13,017,157	\$0
Distribution - Maint - OH System Improvements			100.0%	0.0%	\$0	\$0
Distribution - Maint - Mgmt & Coordination			100.0%	0.0%	\$0	\$0
Distr - Maint - Preventative - OH Line		\$4,092,697		0.0%	\$4,092,697	\$0 *0
Distr - Maint - Trouble - OH Storm Distr - Maint - Pole Inspect & Change-Outs		\$4,401,566 \$8,124,822		0.0%	\$4,401,566 \$8,124,822	\$0 \$0
Distr - Maint - Damage Replacement - OH Line		\$1,921,586		0.0%	\$1,921,586	\$0
Distr - Maint - Capacitors		\$541,916	100.0%	0.0%	\$541,916	\$0
Distr - Maint - Trouble - Non-Storm		\$0	0.0%	0.0%	\$0	\$0
Distr - Maint - Tree Trimming - Planned		\$0	0.0%	0.0%	\$0	\$0
Distr - Env - Train/Permit/Inspect/Audit/Protect			100.0%	0.0%	\$0	\$0
Distr - Maint - Tree Trimming - Unplanned		\$0	0.0%	0.0%	\$0	\$0
Distr - Maint - Pole Reinforcements		\$590,667		0.0%	\$590,667	\$0 *0
Distr - Maint - Pole CLAs & Change-Outs Distr - Maint - Infrared Thermography		\$44,184 \$0	100.0%	0.0% 0.0%	\$44,184 \$0	\$0 \$0
Distr - Maint - Innared Thermography  Distr - Maint - Services - OH Line		\$1,021,164	0.0%	0.0%	\$0	\$0
	Subtotal					
Underground - Blanket Account		000.050	0.00/	400.00/		****
D-CRR-Voltage-UG D-PRE-Transformers-UG		\$68,250 \$2,014,070	0.0%	100.0% 100.0%	\$0 \$0	\$68,250 \$2,014,070
Distr - Maint - Corrective - UG Line		\$9,918,751		100.0%	\$0	\$9,918,751
Distribution - Maint - UG System Improvements		\$0		100.0%	\$0	\$0
Distribution - Maint - Mgmt & Coordination		\$0	0.0%	100.0%	\$0	\$0
Distr - Maint - Preventative - UG Line		\$5,167,209		100.0%	\$0	\$5,167,209
Distr - Maint - Network Corrective		\$114,018		100.0%	\$0	\$114,018
Distr - Maint - Network Preventative Distr - Maint - Capacitors - UG		\$0 \$62,670		100.0% 100.0%	\$0 \$0	\$0 \$62.670
Distr - Maint - Capacitors - UG Distr - Maint - UG Cable Rplcmnt - Planned		\$62,679 \$2,673,149		100.0%	\$0 \$0	\$62,679 \$2,673,149
Distr - Maint - OG Cable Rpichint - Flanned Distr - Maint - Trouble - UG Storm		\$444,257		100.0%	\$0 \$0	\$444,257
Distr - Maint - Damage Replacement - UG Line		\$1,284,984		100.0%	\$0	\$1,284,984
Distr - Maint - UG Cable Rplcmnt - Unplanned		\$0	0.0%		\$0	\$0
Distr - Maint - Services - UG Line		\$1,079,190	0.0%	0.0%	\$0	\$0
	Subtotal	\$22,826,557				
Overhead - O&M Account						
Overhead - O&M Account D-CRR-Voltage-OH (NEW)		\$48,484	100.0%	0.0%	\$48,484	\$0
Distr - Maint - Corrective - OH Line		\$1,941,834	100.0%	0.0%	\$1,941,834	\$0
Distribution - Maint - OH System Improvements			100.0%	0.0%	\$0	\$0
Distribution - Maint - Mgmt & Coordination			100.0%	0.0%	\$0	\$0
Distr - Maint - Preventative - OH Line		\$371,966		0.0%	\$371,966	\$0
Distr - Maint - Trouble - OH Storm Distr - Maint - Pole Inspect & Change-Outs		\$546,182 \$1,645,550		0.0%	\$546,182 \$1,645,550	\$0 \$0
Distr - Maint - Pole Inspect & Change-Outs  Distr - Maint - Damage Replacement - OH Line		\$280,490		0.0%	\$280,490	\$0
Distr - Maint - Capacitors		\$70,909		0.0%	\$70,909	\$0
Distr - Maint - Trouble - Non-Storm		\$3,505,065	0.0%	0.0%	\$0	\$0
CRR - Dist Line - Storms - OH - Restoration		\$0	0.0%	0.0%	\$0	\$0
Distr - Maint - Tree Trimming - Planned		\$19,782,290	0.0%	0.0%	\$0	\$0
Distr - Env - Train/Permit/Inspect/Audit/Protect			100.0%	0.0%	\$103	\$0
Distr - Maint - Tree Trimming - Unplanned		\$1,661,966	0.0%	0.0%	\$0	\$0
Distr - Maint - Pole Reinforcements		\$0 \$0	100.0% 100.0%	0.0%	\$0 \$0	\$0 \$0
Distr - Maint - Pole CLAs & Change-Outs Distr - Maint - Infrared Thermography		\$0 \$0	100.0%	0.0%	\$0 \$0	\$0 \$0
Distr - Maint - Services - OH Line		\$864,462	0.0%	0.0%	\$0	\$0
	Subtotal	\$30,719,301				
<u>Underground - O&amp;M Account</u> D-PRE-Transformers-UG		\$2,020	0.0%	100.0%	\$0	\$2.020
Distr - Maint - Corrective - UG Line		\$2,930 \$2,596,329		100.0%	\$0 \$0	\$2,930 \$2,596,329
Distribution - Maint - UG System Improvements		\$0		100.0%	\$0	\$0
Distribution - Maint - Mgmt & Coordination		\$0		100.0%	\$0	\$0
Distr - Maint - Preventative - UG Line		\$3,032	0.0%	100.0%	\$0	\$3,032
Distr - Maint - Network Corrective		\$45,856	0.0%		\$0	\$45,856
Distr - Maint - Network Preventative		\$389,680	0.0%	100.0%	\$0	\$389,680
Distr - Locate Facilities Distr - Maint - UG Cable Rplcmnt - Planned		\$944,535 \$10,496	0.0%	100.0% 100.0%	\$0 \$0	\$944,535 \$10,496
Distr - Maint - OG Cable Rpicmint - Planned Distr - Maint - Trouble - UG Storm		\$23,300	0.0%	100.0%	\$0 \$0	\$10,496
D-CRR-Capacitors-UG		\$0	0.0%	100.0%	\$0	\$0
D-CRR-Storms-UG		\$0	0.0%	100.0%	\$0	\$0
Distr - Maint - Damage Replacement - UG Line						
Distr - Maint - UG Cable Rplcmnt - Unplanned		\$253,176	0.0%	100.0%	\$0	\$253,176
Dietr Meint Continue IIC Line		\$0	0.0%	100.0% 100.0%	\$0	\$0
Distr - Maint - Services - UG Line	Subtotal	\$0 \$533,123		100.0%		
Distr - Maint - Services - UG Line	Subtotal	\$0	0.0%	100.0% 100.0%	\$0	\$0
Distr - Maint - Services - UG Line	Subtotal	\$0 \$533,123	0.0%	100.0% 100.0%	\$0 \$0	\$0 \$0
	Subtotal	\$0 \$533,123	0.0%	100.0% 100.0%	\$0 \$0	\$0 \$0
Distribution - Maint - Trouble Calls - Non-storm	Subtotal	\$0 \$533,123 \$4,802,457	0.0% 0.0%	100.0% 100.0% 0.0%	\$0 \$0 \$38,113,014	\$0 \$0 \$26,016,701
	Subtotal	\$0 \$533,123	0.0%	100.0% 100.0%	\$0 \$0	\$0 \$0
Distribution - Maint - Trouble Calls - Non-storm Blanket	Subtotal	\$0 \$533,123 \$4,802,457	0.0% 0.0% 81.0%	100.0% 100.0% 0.0%	\$0 \$0 \$38,113,014	\$0 \$0 \$26,016,701
Distribution - Maint - Trouble Calls - Non-storm Blanket O&M	Subtotal	\$0 \$533,123 \$4,802,457	0.0% 0.0% 81.0%	100.0% 100.0% 0.0%	\$0 \$0 \$38,113,014	\$0 \$0 \$26,016,701
Distribution - Maint - Trouble Calls - Non-storm Blanket O&M Distr - Maint - Tree Trimming - Planned	Subtotal	\$0 \$533,123 \$4,802,457 \$0 \$3,505,065	0.0% 0.0% 81.0% 81.0%	100.0% 100.0% 0.0% 19.0%	\$0 \$0 \$38,113,014 \$0 \$2,839,103	\$0 \$0 \$26,016,701 \$0 \$665,962
Distribution - Maint - Trouble Calls - Non-storm Blanket O&M Distr - Maint - Tree Trimming - Planned Blanket	Subtotal	\$0 \$533,123 \$4,802,457 \$0 \$3,505,065	0.0% 0.0% 81.0% 81.0%	100.0% 100.0% 0.0% 19.0% 19.0%	\$0 \$0 \$38,113,014 \$0 \$2,839,103	\$0 \$0 \$26,016,701 \$0 \$665,962
Distribution - Maint - Trouble Calls - Non-storm Blanket O&M Distr - Maint - Tree Trimming - Planned	Subtotal	\$0 \$533,123 \$4,802,457 \$0 \$3,505,065	0.0% 0.0% 81.0% 81.0%	100.0% 100.0% 0.0% 19.0%	\$0 \$0 \$38,113,014 \$0 \$2,839,103	\$0 \$0 \$26,016,701 \$0 \$665,962
Distribution - Maint - Trouble Calls - Non-storm Blanket O&M  Distr - Maint - Tree Trimming - Planned Blanket O&M Distr - Maint - Tree Trimming - Unplanned Blanket	Subtotal	\$0 \$533,123 \$4,802,457 \$0 \$3,505,065	0.0% 0.0% 81.0% 81.0%	100.0% 100.0% 0.0% 19.0% 19.0%	\$0 \$0 \$38,113,014 \$0 \$2,839,103	\$0 \$0 \$26,016,701 \$0 \$665,962
Distribution - Maint - Trouble Calls - Non-storm Blanket O&M Distr - Maint - Tree Trimming - Planned Blanket O&M Distr - Maint - Tree Trimming - Unplanned	Subtotal	\$0 \$533,123 \$4,802,457 \$0 \$3,505,065 \$0 \$19,782,290	0.0% 0.0% 81.0% 81.0% 94.6%	100.0% 100.0% 0.0% 19.0% 19.0% 5.4%	\$0 \$0 \$38,113,014 \$0 \$2,839,103 \$0 \$18,720,430	\$0 \$0 \$26,016,701 \$0 \$665,962 \$1,061,860
Distribution - Maint - Trouble Calls - Non-storm Blanket O&M  Distr - Maint - Tree Trimming - Planned Blanket O&M Distr - Maint - Tree Trimming - Unplanned Blanket	Subtotal	\$0 \$533,123 \$4,802,457 \$0 \$3,505,065 \$0 \$19,782,290 \$0	0.0% 0.0% 81.0% 81.0% 94.6% 94.6%	100.0% 100.0% 0.0% 19.0% 19.0% 5.4% 5.4%	\$0 \$0 \$38,113,014 \$0 \$2,839,103 \$0 \$18,720,430	\$0 \$0 \$26,016,701 \$0 \$665,962 \$0 \$1,061,860 \$0
Distribution - Maint - Trouble Calls - Non-storm Blanket O&M  Distr - Maint - Tree Trimming - Planned Blanket O&M Distr - Maint - Tree Trimming - Unplanned Blanket O&M	Subtotal	\$0 \$533,123 \$4,802,457 \$0 \$3,505,065 \$0 \$19,782,290 \$0	0.0% 0.0% 81.0% 81.0% 94.6% 94.6%	100.0% 100.0% 0.0% 19.0% 19.0% 5.4% 5.4%	\$0 \$0 \$38,113,014 \$0 \$2,839,103 \$0 \$18,720,430	\$0 \$0 \$26,016,701 \$0 \$665,962 \$0 \$1,061,860 \$0
Distribution - Maint - Trouble Calls - Non-storm Blanket O&M  Distr - Maint - Tree Trimming - Planned Blanket O&M Distr - Maint - Tree Trimming - Unplanned Blanket	Subtotal	\$0 \$533,123 \$4,802,457 \$0 \$3,505,065 \$19,782,290 \$1,661,966	0.0% 0.0% 81.0% 81.0% 94.6% 94.6%	100.0% 100.0% 0.0% 19.0% 19.0% 5.4% 5.4%	\$0 \$0 \$38,113,014 \$0 \$2,839,103 \$0 \$18,720,430 \$1,572,756	\$0 \$0 \$26,016,701 \$0 \$665,962 \$0 \$1,061,860 \$0
Distribution - Maint - Trouble Calls - Non-storm Blanket O&M  Distr - Maint - Tree Trimming - Planned Blanket O&M Distr - Maint - Tree Trimming - Unplanned Blanket O&M  Distr - Maint - Services - OH Line	Subtotal	\$0 \$533,123 \$4,802,457 \$0 \$3,505,065 \$0 \$19,782,290 \$0	0.0% 0.0% 81.0% 81.0% 94.6% 94.6%	100.0% 100.0% 0.0% 19.0% 19.0% 5.4% 5.4% 5.4%	\$0 \$0 \$38,113,014 \$0 \$2,839,103 \$0 \$18,720,430	\$0 \$0 \$26,016,701 \$0 \$665,962 \$1,061,860 \$0 \$89,210
Distribution - Maint - Trouble Calls - Non-storm Blanket O&M  Distr - Maint - Tree Trimming - Planned Blanket O&M Distr - Maint - Tree Trimming - Unplanned Blanket O&M  Distr - Maint - Services - OH Line Blanket	Subtotal	\$0 \$533,123 \$4,802,457 \$0 \$3,505,065 \$0 \$19,782,290 \$1,661,966 \$1,021,164	0.0% 0.0% 81.0% 81.0% 94.6% 94.6% 94.6%	100.0% 100.0% 0.0% 19.0% 19.0% 5.4% 5.4% 5.4%	\$0 \$0 \$38,113,014 \$0 \$2,839,103 \$0 \$18,720,430 \$0 \$1,572,756	\$0 \$0 \$26,016,701 \$0 \$665,962 \$1,061,860 \$9,210
Distribution - Maint - Trouble Calls - Non-storm Blanket O&M  Distr - Maint - Tree Trimming - Planned Blanket O&M  Distr - Maint - Tree Trimming - Unplanned Blanket O&M  Distr - Maint - Services - OH Line Blanket O&M	Subtotal	\$0 \$533,123 \$4,802,457 \$0 \$3,505,065 \$0 \$19,782,290 \$1,661,966 \$1,021,164	0.0% 0.0% 81.0% 81.0% 94.6% 94.6% 94.6%	100.0% 100.0% 0.0% 19.0% 19.0% 5.4% 5.4% 5.4%	\$0 \$0 \$38,113,014 \$0 \$2,839,103 \$0 \$18,720,430 \$0 \$1,572,756	\$0 \$0 \$26,016,701 \$0 \$665,962 \$1,061,860 \$9,210
Distribution - Maint - Trouble Calls - Non-storm Blanket O&M  Distr - Maint - Tree Trimming - Planned Blanket O&M Distr - Maint - Tree Trimming - Unplanned Blanket O&M  Distr - Maint - Services - OH Line Blanket O&M  Distr - Maint - Services - UG Line	Subtotal	\$0 \$533,123 \$4,802,457 \$0 \$3,505,065 \$0 \$19,782,290 \$0 \$1,661,966 \$1,021,164 \$864,462	0.0% 0.0% 81.0% 81.0% 94.6% 94.6% 94.6%	100.0% 100.0% 0.0% 19.0% 19.0% 5.4% 5.4% 0.0%	\$0 \$0 \$38,113,014 \$0 \$2,839,103 \$0 \$18,720,430 \$1,572,756 \$1,021,164 \$864,462	\$0 \$0 \$26,016,701 \$0 \$665,962 \$1,061,860 \$89,210
Distribution - Maint - Trouble Calls - Non-storm Blanket O&M  Distr - Maint - Tree Trimming - Planned Blanket O&M Distr - Maint - Tree Trimming - Unplanned Blanket O&M  Distr - Maint - Services - OH Line Blanket O&M  Distr - Maint - Services - UG Line Blanket	Subtotal	\$0 \$533,123 \$4,802,457 \$0 \$3,505,065 \$0 \$19,782,290 \$1,661,966 \$1,021,164 \$864,462	0.0% 0.0% 81.0% 81.0% 94.6% 94.6% 100.0%	100.0% 100.0% 0.0% 19.0% 19.0% 5.4% 5.4% 5.4% 10.0%	\$0 \$0 \$38,113,014 \$0 \$2,839,103 \$0 \$18,720,430 \$0 \$1,572,756 \$1,021,164 \$864,462	\$0 \$0 \$26,016,701 \$0 \$665,962 \$1,061,860 \$9,210 \$0 \$0 \$1,079,190
Distribution - Maint - Trouble Calls - Non-storm Blanket O&M  Distr - Maint - Tree Trimming - Planned Blanket O&M Distr - Maint - Tree Trimming - Unplanned Blanket O&M  Distr - Maint - Services - OH Line Blanket O&M  Distr - Maint - Services - UG Line	Subtotal	\$0 \$533,123 \$4,802,457 \$0 \$3,505,065 \$0 \$19,782,290 \$0 \$1,661,966 \$1,021,164 \$864,462	0.0% 0.0% 81.0% 81.0% 94.6% 94.6% 94.6%	100.0% 100.0% 0.0% 19.0% 19.0% 5.4% 5.4% 0.0%	\$0 \$0 \$38,113,014 \$0 \$2,839,103 \$0 \$18,720,430 \$1,572,756 \$1,021,164 \$864,462	\$0 \$0 \$26,016,701 \$0 \$665,962 \$1,061,860 \$89,210
Distribution - Maint - Trouble Calls - Non-storm Blanket O&M  Distr - Maint - Tree Trimming - Planned Blanket O&M Distr - Maint - Tree Trimming - Unplanned Blanket O&M  Distr - Maint - Services - OH Line Blanket O&M  Distr - Maint - Services - UG Line Blanket	Subtotal	\$0 \$533,123 \$4,802,457 \$0 \$3,505,065 \$0 \$19,782,290 \$1,661,966 \$1,021,164 \$864,462 \$1,079,190 \$533,123	0.0% 0.0% 81.0% 81.0% 94.6% 94.6% 100.0%	100.0% 100.0% 0.0% 19.0% 19.0% 5.4% 5.4% 5.4% 0.0%	\$0 \$0 \$38,113,014 \$0 \$2,839,103 \$0 \$18,720,430 \$0 \$1,572,756 \$1,021,164 \$864,462	\$0 \$0 \$26,016,701 \$0 \$665,962 \$1,061,860 \$9,210 \$0 \$0 \$1,079,190

### **ENERGY DELIVERY**

### "2023" ADDER STUDY

### **Provided by ED Business Planning**

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	<u>Toolkit</u>
	Distribution CIAC
Total Corporate Accounting FRINGE Rates per Activity A&G (for PSTEW)	79.62%
Other "Operating Labor" related adders:	
Non-Productive Time*	13.00%
Energy Delivery (Supervisory/Administrative)	19.65%
Energy Delivery Engineering	0.00%
Small Tools *	7.80%
TOTAL Other "Labor" related Adders	40.45%
TOTAL Fully Loaded "Labor" adders	120.07%
Fleet* as a % of Labor (rate of settled labor w/ fringe)	17.02%
Fleet* as a % of Labor (rate excluding 37% fringe)	23.32%
"Material" related adders:	
Stores Carrying Cost (ED Stores Clearing) *	3.97%
Stores Carrying Cost (WH Space, Taxes, Insurance & Obsolete Mat)	3.06%
Stores Carrying Cost (Cost of Money - PDR only)	0.00%
Self Help *	3.01%
TOTAL "Material" related Adders	10.05%
Other "Contractor" related adders:	
Energy Delivery (Supervisory/Administrative/Engineering)	28.57%
TOTAL Fully Loaded "Contractor" adders	28.57%

<sup>\*</sup> When determining final bill true up or calculating pay-after invoice using actual results, exclude these items, which will already be included in actuals