## AUSLEY & MCMULLEN

ATTORNEYS AND COUNSELORS AT LAW

123 SOUTH CALHOUN STREET
P.O. BOX 391 (ZIP 32302)
TALLAHASSEE, FLORIDA 32301
(850) 224-9115 FAX (850) 222-7560

November 12, 2021

**VIA: ELECTRONIC FILING** 

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

Re: Amended Petition of Tampa Electric Company for Approval of Revised

Underground Residential Distribution Tariff

FPSC Dkt. No. 20210164-EI

Dear Mr. Teitzman:

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

Thank you for your assistance in connection with this matter.

Sincerely,

Malcolm N. Means

MNM:bmp Attachment

cc: All parties of record

#### **CERTIFICATE OF SERVICE**

I HEREBY CERTIFY that a true and correct copy of the foregoing Amended Petition of Tampa Electric Company for Approval of Revised Underground Residential Distribution Tariff, has been furnished by electronic mail on this 12th day of November 2021 to the following:

Shaw Stiller
Attorney
Office of General Counsel
Florida Public Service Commission
Room 390L – Gerald L. Gunter Building
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850
sstiller@psc.state.fl.us

Richard Gentry
Patricia A. Christensen
Stephanie A. Morse
Charles J. Rehwinkel
Office of Public Counsel
111 West Madison Street – Room 812
Tallahassee, FL 32399-1400
christensen.patty@leg.state.fl.us
gentry.richard@leg,state,fl.us
morse.stephanie@leg.state.fl.us
rehwinkel.charles@leg.state.fl.us

**ATTORNEY** 

Noluly N. Means

#### BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Petition of Tampa Electric Company	)	DOCKET NO. 20210064
for Approval of Revised Underground	)	
Residential Distribution Tariff	)	FILED: November 12, 2021
	)	

## AMENDED PETITION OF TAMPA ELECTRIC COMPANY

In accordance with Commission Rule 28-6.078(2), Florida Administrative Code ("F.A.C."), Tampa Electric Company ("Tampa Electric" or "the company") files this Amended Petition for Approval of Revised Tariffs for Underground Residential Distribution. The revised tariff sheets containing updated Underground Residential Distribution ("URD") charges that reflect the cost differential between overhead ("OH") and underground ("UG") distribution service are attached hereto in standard and legislative formats as Exhibits "A" and "B", respectively. Form PSC/EAG 13, *Overhead/Underground Residential Differential Cost Data*, and supporting data and analyses for the proposed URD charges are provided in Exhibit "C". In support thereof, 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 (813) 228-1770 (fax)

- 2. Tampa Electric is an investor-owned public utility subject to the jurisdiction of the Commission under Chapter 366, Florida Statutes.
- 3. All notices, pleadings and correspondence required to be served on the Petitioner should be directed to:

James D. Beasley
J. Jeffry Wahlen
Malcolm N. Means
Ausley & McMullen
Post Office Box 391
Tallahassee, FL 32302
(850) 224-9115
(850) 222-7960 (fax)
jbeasley@ausley.com (email)
jwahlen@ausley.com (email)
mmeans@ausley.com (email)

Paula Brown, Manager Regulatory Coordination Tampa Electric Company Post Office Box 111 Tampa, FL 33602 (813) 228-1444 (813) 228-1770 (fax) regdept@tecoenergy.com (email)

#### **Background**

- 4. On April 2, 2018, Tampa Electric Company filed a petition for approval of revised tariffs for underground residential distribution. *See* Docket No. 20180086. The Commission approved this petition in Order Nos. PSC-2018-0319-TRF-EI and PSC-2018-0356-CO-EI, issued June 25, 2018 and July 23, 2018, respectively. These Orders approved a cost differential of \$0.00 for both high- and low-density subdivisions.
- 5. Pursuant to Rule 25-6.078(3), F.A.C., Tampa Electric filed an annual report containing Form PSC/EDR 13-E, Schedule 1, using current material and labor costs in October 2018, 2019, and 2020. These reports indicated that there were no changes in the differential costs since the company's filing in April of 2018.
- 6. Pursuant to Rule 25-6.078(3), F.A.C, a utility is required to file "a written policy and supporting data and analyses at least once every 3 years." Since the company's last filing was in April of 2018, Tampa Electric filed its initial Petition in this docket on April 1, 2021. Tampa Electric files this Amended Petition to remove its request in the initial Petition for a waiver of the high- and low-density subdivision URD charges calculated in the cost support provided in that initial Petition pursuant to Rule 25-6.078(10), F.A.C.

- 7. The proposed charges and credits contained in Revised Tariff Sheet Nos. 5.510, 5.515, and 5.516 attached to this Amended Petition are based on current labor and material costs from the twelve-month period prior to the April 2021 initial Petition and are prepared in accordance with the requirements of Rules 25-6.064, 25-6.078, and 25-6.115, F.A.C.
- 8. In preparing the proposed per lot charges in this Amended Petition, Tampa Electric moved from a calculation of the 3-year average based on actual storm costs to a long-term potential cost based on hurricane simulations. The estimated actual hurricane loss value used in this calculation is drawn from the testimony of Steven P. Harris in Docket No. 20210034-EI, Exhibit No. SPH-1, Document No. 1, Page 12 of 19, filed April 9, 2021. At this time, Tampa Electric anticipates utilizing this report, or a subsequently calculated report like it, in the company's next filing regarding proposed lot charges.

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

9. Tampa Electric's proposed differential charge for Low-Density URD subdivision lots is \$370.29 per lot which is higher than the current charge of \$0.00 per lot. The company's proposed differential charge for High-Density URD subdivision lots is \$0.00 per lot which is the same as the current charge of \$0.00 per lot.

#### **Proposed Charges for UG Services from OH Distribution Sources**

- 10. For new single-phase UG services from OH distribution sources, the proposed Fixed Charge, representing fixed labor and material costs that are not impacted by the variable service length, has decreased from \$71.36 to \$18.46 for 2/0 UG service laterals and decreased from \$106.53 to \$92.54 for 4/0 UG service laterals.
- 11. The proposed "Per Trench Foot" charges have increased from \$10.02 to \$11.62 per foot for 2/0 cable and from \$9.91 to \$12.18 per foot for 4/0 cable.

12. The proposed credit for avoiding a service pole has increased from \$592.39 to \$801.36. None of these proposed charges is changed from the initial petition.

#### Proposed Charges for Conversion of Existing OH Services to UG

- 13. For converted single phase UG services, the proposed OH service removal charge has increased from \$167.70 to \$205.08 for service cable only and has increased from \$752.94 to \$885.91 when removal involves a service pole. None of these proposed charges is changed from the initial petition.
- 13. Tampa Electric is also proposing an updated non-refundable deposit charge for binding estimates conversion of existing OH distribution facilities to UG. Those charges, escalated by CPI over the three-year period, increase from \$9,896 to \$10,391 per mile for the urban density class, from \$5,657 to \$5,940 per mile for the rural density class, and \$47 to \$49 per lot for the per lot subdivisions class. None of these proposed charges is changed from the initial petition.
- 14. Tampa Electric knows of no disputed issues of material fact relative to the tariff revisions proposed herein.

WHEREFORE, Tampa Electric requests that this Commission consent to the above described revised tariff sheets as set forth in Exhibit "A" under the provisions of Section 366.03(3), Florida Statutes.

Dated this 12<sup>th</sup> day of November, 2021.

Respectfully submitted,

JAMES D. BEASLEY

J. JEFFRY WAHLEN

MALCOLM N. MEANS

Ausley & McMullen

Post Office Box 391

Tallahassee, FL 32302

(850) 224-9115

ATTORNEYS FOR TAMPA ELECTRIC COMPANY





## ELEVENTH REVISED SHEET NO. 5.510 CANCELS TENTH 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	\$370.29
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	\$18.46
Fixed Charge for 4/0 service lateral	\$92.54
Per trench foot charge for 2/0 service lateral	\$11.62
Per trench foot charge for 4/0 service lateral	\$12.18
Credit for service pole if otherwise required for overhead service	\$801.36

Continued to Sheet No. 5.515

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



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

_	<b>^</b>	•	-4	<b>^</b>	41	· · · · · · ·	

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	\$205.08
Removal charge for overhead service with a service pole	\$885.91
Fixed Charge for 2/0 service lateral Fixed Charge for 4/0 service lateral	\$ 18.46 \$ 92.54
Per trench foot charge for 2/0 service lateral Per trench foot charge for 4/0 service lateral	\$ 11.62 \$ 12.18
Credit for service pole if otherwise required for overhead service	\$801.36

Continued to Sheet No. 5.516

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



## **ELEVENTH REVISED SHEET NO. 5.516 CANCELS TENTH 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:

<b>Density Class</b>	Deposit Amount
Urban Commercial or Residential	\$10,391per mile*
Rural Commercial or Residential	\$ 5,940 per mile*
High or Low Density Subdivision	\$ 49 per lot

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

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





## TENTH ELEVENTH REVISED SHEET NO. 5.510 CANCELS NINTH TENTH 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... \$\text{9370.29.00}\$

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	\$ <u>18.46</u> 71.36
Fixed Charge for 4/0 service lateral	\$ <u>92.54</u> <del>106.53</del>

Per trench foot charge for 2/0 service lateral	\$ <u>11.62</u> <del>10.02</del>
Per trench foot charge for 4/0 service lateral	\$ <u>12.18</u> 9.91

Credit for service pole if otherwise required for overhead service \$801.36592.39

ISSUED BY: N. G. TowerA. D. Collins, DATE EFFECTIVE: June 5, 2018

President



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

Continued to Sheet No. 5.515

ISSUED BY: N. G. Tower A. D. Collins,

President

DATE EFFECTIVE: June 5, 2018



# SIXTEENTH SEVENTEENTH REVISED SHEET NO. 5.515 CANCELS FIFTEENTH SIXTEENTH 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 \$205.08167.70

Removal charge for overhead service with a service pole \$885.91752.94

Fixed Charge for 2/0 service lateral \$\frac{18.4671.36}{2.54106.53}\$

Per trench foot charge for 2/0 service lateral \$\frac{11.62}{10.02}\$

Per trench foot charge for 4/0 service lateral \$\frac{12.189.91}{12.189.91}\$

Credit for service pole if otherwise required for overhead service \$801.36592.39

Continued to Sheet No. 5.516

DATE EFFECTIVE: June 5, 2018

ISSUED BY: N. G. TowerA. D. Collins,

President



## TENTH ELEVENTH REVISED SHEET NO. 5.516 CANCELS NINTH TENTH 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	\$ <u>10,391</u> 9,896 per mile*
Rural Commercial or Residential	\$ <u>5,940</u> 5,657 per mile*
High or Low Density Subdivision	\$ <u>49</u> 47 per lot

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

ISSUED BY: N. G. TowerA. D. Collins, DATE EFFECTIVE: June 5, 2018

President



## OVERHEAD VS UNDERGROUND SUMMARY SHEET

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

ITEM	OVERHEAD	UNDERGROUND	DIFFERENTIAL
Labor	\$719.59	\$1,213.14	\$493.55
Material	\$708.94	\$1,227.97	\$519.03
TOTAL	\$1,428.53	\$2,441.11	\$1,012.58
NPV Operational Cost Including Storm Restoration and Lost Pole Attachment Revenue	\$1,896.66	\$1,254.37	-\$642.29
TOTAL Including NPV Operational Cost	\$3,325.19	\$3,695.48	\$370.29

### 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>	\$134.88	\$79.94	\$214.82
Primary	\$16.04	\$47.12	\$63.16
Secondary	\$121.20	\$160.21	\$281.41
Initial Tree Trim	\$0.00	\$0.00	\$0.00
Poles	\$150.71	\$278.42	\$429.13
Transformers	\$208.91	\$88.24	\$297.15
Subtotal	\$631.74	\$653.93	\$1,285.67
Stores Handling <sup>3</sup>	\$77.20	\$0.00	\$77.20
Subtotal	\$708.94	\$653.93	\$1,362.87
Engineering		\$65.66	\$65.66
TOTAL	\$708.94	\$719.59	\$1,428.53

<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> 12.22% 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>	\$331.03	\$248.42	\$579.45
Primary	\$304.40	\$109.34	\$413.74
Secondary	\$79.99	\$64.92	\$144.91
Transformers	\$378.83	\$86.18	\$465.01
Pri. and Sec. Trenching	\$0.00	\$319.74	\$319.74
Service Trenching	\$0.00	\$318.88	\$318.88
Subtotal	\$1,094.25	\$1,147.48	\$2,241.73
Stores Handling <sup>3</sup>	\$133.72	\$0.00	\$133.72
Subtotal	\$1,227.97	\$1,147.48	\$2,375.45
Engineering		\$65.66	\$65.66
TOTAL	\$1,227.97	\$1,213.14	\$2,441.11

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

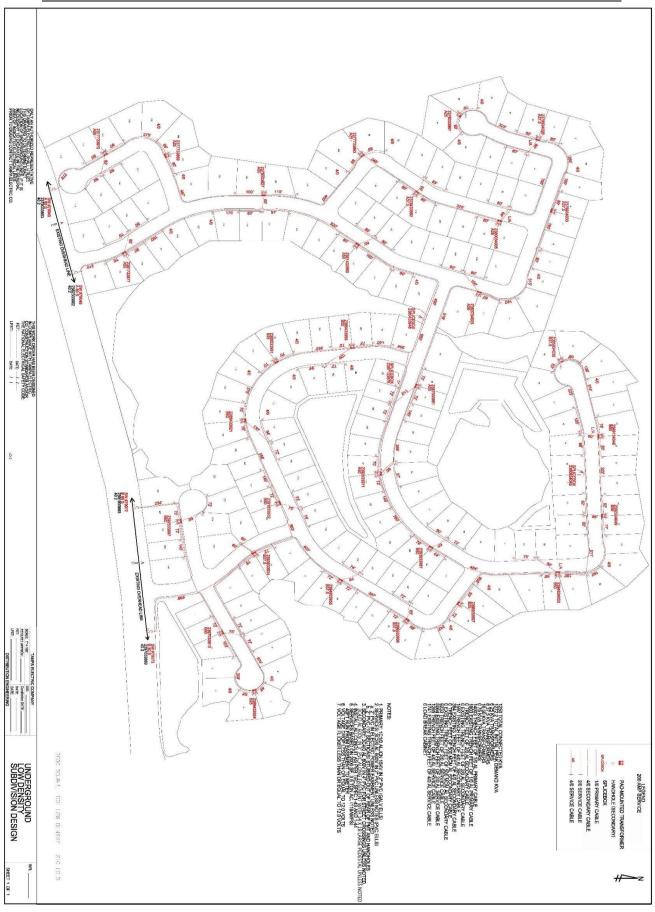
<sup>&</sup>lt;sup>2</sup> Includes Meter

 $<sup>^3</sup>$  12.22% 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	\$570.46	\$1,015.10	\$444.64	
Material	\$551.19	\$866.33	\$315.14	
TOTAL	\$1,121.65	\$1,881.43	\$759.78	
NPV Operational Cost Including Storm Restoration and Lost Pole Attachment Revenue	\$1,408.20	\$583.66	-\$824.54	
TOTAL Including NPV Operational Cost	\$2,529.85	\$2,465.09	-\$64.76	

### 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>	\$142.24	\$91.83	\$234.07
Primary	\$12.88	\$35.17	\$48.05
Secondary	\$64.40	\$106.36	\$170.76
Initial Tree Trim			\$0.00
Poles	\$113.97	\$205.55	\$319.52
Transformers	\$157.68	\$70.27	\$227.95
Subtotal	\$491.17	\$509.18	\$1,000.35
Stores Handling <sup>3</sup>	\$60.02	\$0.00	\$60.02
Subtotal	\$551.19	\$509.18	\$1,060.37
Engineering		\$61.28	\$61.28
TOTAL	\$551.19	\$570.46	\$1,121.65

<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> 12.22% 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>	\$288.33	\$260.66	\$548.99
Primary	\$138.27	\$61.14	\$199.41
Secondary	\$78.14	\$70.32	\$148.46
Transformers	\$267.25	\$68.77	\$336.02
Pri. and Sec. Trenching		\$175.02	\$175.02
Service Trenching		\$317.91	\$317.91
Subtotal	\$771.99	\$953.82	\$1,725.81
Stores Handling <sup>3</sup>	\$94.34	\$0.00	\$94.34
Subtotal	\$866.33	\$953.82	\$1,820.15
Engineering		\$61.28	\$61.28
TOTAL	\$866.33	\$1,015.10	\$1,881.43

<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> 12.22% 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.

Includes Meter

<sup>&</sup>lt;sup>3</sup> 12.22% 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

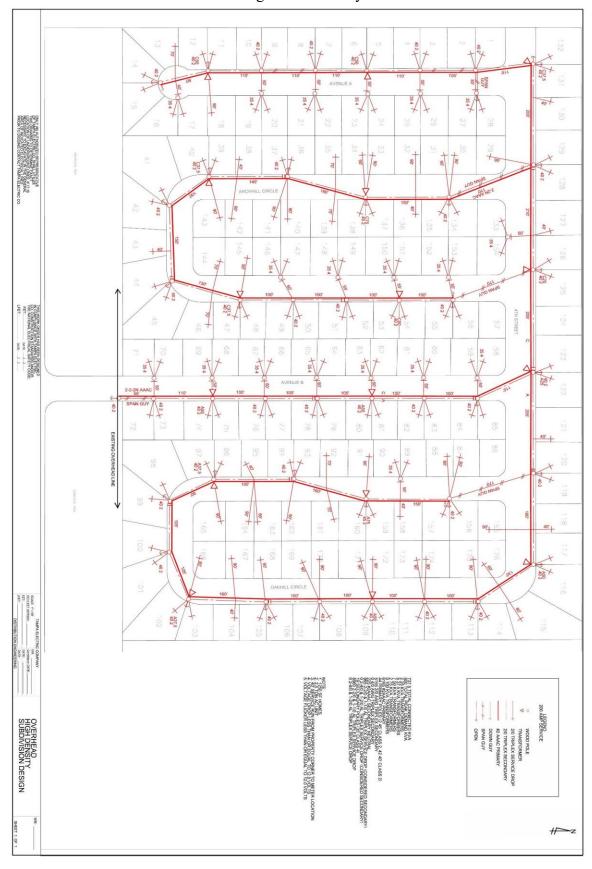
<sup>&</sup>lt;sup>1</sup> Includes Administration, General & Transportation

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.

Includes Meter

<sup>3 12.22%</sup> of all Material

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



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



### AVERAGE UNDERGROUND FEEDER COSTS

Underground	Overhead	Difference
\$/Ft	\$/Ft	\$/Ft
W'4 F 11 T 1'		
With Favorable Trenching \$/Ft		\$/Ft
·		· ———
Additional Trenching Cost*		
(Difficult Trenching)		
\$/Ft		\$/Ft
* Difficult trenching charges include und	derground cost of cable-in-cond	uit and rock trench adder.
Note: Above costs reflect adjustment of underground estimates.	f \$ for overhead estimat	res and \$ for
Feeder cost are not included in Tampa addressed in Tampa Electric's Tariff S	•	Feeder installation policy

### ACTUAL OPERATIONAL DISTRIBUTION EXPENSES IN 2020

For Overhead and Underground

OVERHEAD UNDERGROUND

Operational Expense - Distribution

\$63,394,096

\$33,194,939

## JOINT TRENCHING WITH OTHER UTILITIES In RESIDENTIAL DISTRIBUTION

### 2011- 2020 ADDITIONS

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

Tampa Electric did not engage in joint trenching during calendar year 2020.

# 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 2011	0	\$0.00	\$0.00
Total For 2012	0	\$0.00	\$0.00
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
10-Year Total	0	\$0.00	\$0.00

## 4/2021

## 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	331.03	64.92%	248.42	46.79%	579.45	56.63%	Underground material up, contractor rates up	
PRIMARY	304.40	30.81%	109.34	51.40%	413.74	35.68%	Underground material up, Cable labor re-evaluation caused labor increase	
SECONDARY	79.99	84.78%	64.92	28.28%	144.91	54.32%	Underground material up, Cable labor re-evaluation caused labor increase	
TRANSFORMERS	378.83	9.14%	86.18	10.13%	465.01	9.32%	Underground material up, TEC & Contractor overhead down	
TRENCHING								
PRIMARY & SECONDARY			319.74	-12.14%	319.74	-12.14%	Contractor rates down	
SERVICES			318.88	-7.16%	318.88	-7.16%	Contractor rates down	
SUB-TOTAL	1,094.25	32.82%	1,147.48	6.48%	2,241.73	17.89%		
STORES HANDLING	133.72	16.11%			133.72	16.11%	Higher material costs produces higher handling costs	
SUB-TOTAL	1,227.97	30.77%	1,147.48	6.48%	2,375.45	17.79%		
ENGINEERING			65.66	0.00%	65.66	0.00%		
TOTAL	1,227.97	30.77%	1,213.14	6.10%	2,441.11	17.23%		
					1,254.37	Net Present Value of the Life Cycle Operational Cost Including Storm 1,254.37 Restoration and Lost Pole Attachment Revenue		
Total with NPV Factor					3,695.48 Total Including NPV of Operational Cost			

## Overhead Costs (per lot)

	MAT	ERIAL	LABO	R	TOTAL		
ITEM	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE	EXPLANATION OF % CHANGE
SERVICE	134.88	70.67%	79.94	6.94%	214.82	39.69%	Material up, Labor up
PRIMARY	16.04	15.73%	47.12	12.78%	63.16	13.52%	Material up, Labor up
SECONDARY	121.20	11.24%	160.21	6.02%	281.41	8.21%	Material up, Labor up
INITIAL TREE TRIM			0.00		0.00		
POLES	150.71	8.41%	278.42	8.73%	429.13	8.62%	Material up, Labor up
TRANSFORMERS	208.91	3.31%	88.24	9.53%	297.15	5.08%	Material up, Labor up
SUB-TOTAL	631.74	16.33%	653.93	8.22%	1,285.67	12.06%	
STORES HANDLING	77.20	1.69%			77.20	1.69%	Higher material costs produces higher handling costs
SUB-TOTAL	708.94	14.53%	653.93	8.22%	1,362.87	11.41%	
ENGINEERING			65.66	0.00%	65.66	0.00%	
TOTAL	708.94	14.53%	719.59	7.41%	1,428.53	10.83%	
					Net Present Value of the Life Cycle Operational Cost Including Storm 1,896.66 Restoration and Lost Pole Attachment Revenue		
Total with NPV Factor			_		3,325.19 Total Including NPV of Operational Cost		

## Differential Costs (per lot)

	MATERIAL		LABOR		TOTAL	
ITEM	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE
Differential (per lot)	519.03	62.19%	493.55	4.25%	1,012.58	27.62%
NPV amount					-642.29	
Differential <sup>1</sup> (per lot)	0.00		0.00		370.29	-175.42%

<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 Contractor	Install & Ground Transformers Prepare Pad Site	89,275.93	\$79,554.38	12,917.76 5,179.75	11,552.89 5.179.75	6,726.81 4.314.30	4,286.32	539.76 865.45	60% 0%	40% 100%	\$1,364.87	9,721.55	102,193.69 5.179.75
4	Communici	rioparo r da ono	89,275.93	79,554.38	18,097.51	16,732.64	11,041.11	4,286.32	1,405.21	0,0	10070	1,364.87	9,721.55	107,373.44
5 6	Primary													
7	924957 925017	Primary Line - OH-UG Takeoffs Primary Conduit (Material Only)	1,615.06 25,221.49	\$1,439.19 \$22,475.04	1,910.80	1,708.90	995.03	634.03	79.84	60%	40%	\$201.89	175.87 2,746.45	3,525.85 25,221.49
9	925022	Primary Cable	44,899.79	\$40,010.51	21,050.29	18,826.15	10,961.75	6,984.83	879.57	60%	40%	\$2,224.14	4,889.28	65,950.08
10	_		71,736.34	63,924.74	22,961.08	20,535.05	11,956.78	7,618.86	959.41			2,426.03	7,811.60	94,697.43
11 12	Secondary 925024	Secondary Cable	11,440.67	\$10,194.86	13,633.22	12,192.76	7,099.38	4,523.72	569.65	60%	40%	\$1,440.46	1,245.81	25,073.90
13	925026	Secondary Conduit (Material Only)	7,409.08	\$6,602.28	-	-	-	-,020.72	-	0070	4070	ψ1,440.40 -	806.80	7,409.08
14			18,849.75	16,797.14	13,633.22	12,192.76	7,099.38	4,523.72	569.65			1,440.46	2,052.61	32,482.97
15	Service													
16	925028	Service Cable	26,226.15	\$23,370.30	48,611.12	48,611.12	40,489.02	-	8,122.10	0%	100%	-	2,855.85	74,837.27
17	925029	Set Meters	21,181.30	\$18,874.80	3,556.32	3,180.56	1,851.92	1,180.04	148.60	60%	40%	\$375.75	2,306.50	24,737.62
18	925030	Service Conduit Material	30,604.71	\$27,272.06									3,332.65	30,604.71
19 20			78,012.16	69,517.16	52,167.43	51,791.68	42,340.94	1,180.04	8,270.70			375.75	8,495.00	130,179.59
21	Trenching													
22	Contractor	Primary Trenching	-	-	45,216.01	45,216.01	37,661.18	-	7,554.83	0%	100%	-	-	45,216.01
23	Contractor	Secondary Trenching	-	-	5,475.70	5,475.70	4,560.80	-	914.90	0%	100%	-	-	5,475.70
24	TEC Inspection	n for Primary			16,452.69	15,594.97				100%	0%	857.72		16,452.69
25 26			-	-	67,144.40	66,286.68	42,221.98	-	8,469.73			857.72	-	67,144.40
27	Contractor	Svc Trenching Pri. Prop	_	-	39.974.94	39.974.94	33.295.80	-	6.679.14	0%	100%	_	-	39.974.94
28	Contractor	Svc Trenching Rts-of-Wy	_	_	17,238.59	17,238.59	14,358.31	_	2,880.28	0%	100%	_	_	17,238.59
29	TEC Inspection		_	_	9,750.62	9,242.42	-	_	-	100%	0%	508.20	-	9,750.62
30 31	·		-	-	66,964.14	66,455.94	47,654.11	-	9,559.41			508.20	-	66,964.14
32 33	Engineering	Design/Inspection/Coordination	-	-	13,788.39	13,788.39	-	-	-			-	-	13,788.39
34 35	Totals (Sum of lines Cost per Lot	4, 10, 14, 19, 25, 30, and 32) (line 34 /210 lots)	\$ 257,874.18 \$ \$ 1,227.97	229,793.42	\$ 254,756.18 \$ 1,213.12	\$ 247,783.15	\$ 162,314.30 \$	17,608.95	\$ 29,234.11			\$ 6,973.04	\$ 28,080.76	\$ 512,630.36 \$ 2,441.10

Adjustment Factors			
TEC Operations Labor Overhead Factor	TLF =	1.062	
Contractor Labor Overhead Factor	CLF =	0.2006	
Current year material handling charge rate	MHR =	0.1222	

		UG Contrac	tor Labor E	stimate -	210 lot low	density	
Prepare pad site (Primary Contractor Labor Costs)							
		Total		Pad sites			
Pad site preparation	Total	\$4,314.30	\$143.81	30			
		Primary Tren	ching & Cond	luit (Primar	y Contractor L	abor Costs)	
		<u>Total Cost</u> <u>Feet</u>					
		\$29,126.24	\$2.08	14003			ching Cost Only
		\$8,061.06	\$0.51	15806			allation (both trenching and in existing trench)
		\$0.00	\$0.00	14003			llation (used exact length for labor cost not 5% extra)
		\$473.88	\$157.96	3		1ø splice box	(30" x 48" x 18"), UG GR&S 6-21
Primary Trenching	Sub-total	\$37,661.18					
		Secondary Tr	enching & Co	onduit (Prin	nary Contracto	or Labor Costs	1
		<u>Total</u>	Cost	Feet			
		\$3,321.76	\$2.08	1597			ching Cost Only
		\$0.00	\$0.51	0		2" Conduit Ins	
		\$176.00	\$0.55	320		3" Conduit Ins	
		\$1,063.04	\$0.64	1661		4" Conduit Ins	
		\$0.00	\$0.00	1597		Pull-tape Insta	llation (used exact length not 5% extra)
Secondary Trenching	Sub-total	\$4,560.80					
Primary Contractor Labor	Total	\$42,221.98					
		Service Trend	hing & Cond	uit (Primar	y Contractor L	abor Costs)	
		Total	Cost	Feet			
		\$7,473.44	\$2.08	3593			t -Trenching feet required for 2" service conduit
		\$1,196.00	\$2.08	575			t -Trenching feet required for 3" service conduit
		\$4,415.07	\$0.51	8657		2" Conduit Ins	
		\$1,273.80	\$0.55	2316		3" Conduit Ins	
Svc Trenching Rts-of-Wy	Sub-total	\$0.00 \$14.358.31	\$0.00	10973		Pull-tape Insta	llation (used exact length not 5% extra)
Ove Heliciling Res-ol-wy	oup total						
		Service Trend Total	hing & Cond: Cost	uit on Priva Feet	ate Property (S	ervice Contra	ctor Labor Costs)
Svc Trenching Pri. Prop	Sub-total	\$33,295.80	\$5.26	6330		Trenching & c	onduit labor cost - Trenching feet = 30 ft x 210 lots
		Service Cable	(Service Co	ntractor La	bor Costs)		
		<u>Total</u>	Cost	<u>Feet</u>			
Service Cable Labor	Sub-total	\$40,489.02	\$2.34	17303		Installing 2/0 c	r 4/0 Cable in existing conduit from source to meter
Service Conractor Labor	Total	\$88,143.13					
otal Contractor L	abor Cost	\$130,365.11					
		Inspection (T	ECO Labor C TEC Labor	ost)	TEC Vobiolo	TEC Vehicle	
		Total	Rate	Feet/Qty	Rate	Total	Inspection costs for Primary Contractor (TECO Labor Cost)
		\$10,953.46	\$88.00	14003	\$4.84	\$602.44	Primary Inspection costs for Primary Contractor (1200 Labor Cost)  Primary Inspection chg = (mach. trnch ft / 900 ft per day)*(8 hr/day)*Contractor rate
		\$1,249.21	\$88.00	1597	\$4.84	\$68.71	Secondary Inspection chg = (mach. trich 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
Inspection costs for		\$132.00	\$44.00	3	\$2.42	\$7.26	1ø splice box (30" x 48" x 18"), UG GR&S 6-21
Primary Contractor	Sub-total	\$15,594.97	• • • • • • • • • • • • • • • • • • • •	-	<b>*</b>	\$857.72	
		TEC Labor	TEC Labor		TEC Vehicle	TEC Vehicle	
		Total	Rate	Feet/Qty	Rate	Total	Inspection costs for Service Contractor (TECO Labor Cost)
Inspection costs for		\$9,240.00	\$44.00	210	\$2.42	\$508.20	Service Private Property Inspection = .5hr x # of lots x rate
		\$9,242.42			•	\$508.20	

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
      - Trench Feet of 500 MCM AL Secondary Cable
      - O 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
  - 1741 Existing trench feet of 4/0 AL Service Cable
    - 0 Load Break Cabinet

#### Notes:

- 1. 1501-2500 SF Homes
- 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
- 5. Voltage flicker less than or equal to 12.0 volts

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

Links allow this worksheet to summarize the material and CU entries from the ParkhurstPole worksheet through the BentTreePole worksheet. The totals are broken down into material construction units (CUs) for WorkPro work requests and labor inputs for the Contractor Labor worksheet.

Station All Stations - This information is used to create Work Requests to obtain costs.

<=== Blue shading indicates fields to be updated. In WorkPro search for each Work Request Number shown in the blue areas. Then copy each work request which will create a new work request number to be entered.</p>

Transfer the values from Qty and CU columns highlighted in yellow to the new WorkPro Work Requests to obtain new costs.

Those costs are then entered into the LDdifferentialMonth-Year.xls workbook to calculate the Low Density Differential cost.

#### Work Request

Number 924920

		<u>Transformers - Cost for: Material only, T</u>	EC labor & o	overhead, vehicle
Qty	CU	Definition	Total Con	nected KVA
(	) pku51a3n	25 kva, 6 tap 250mcm	0	
6	6 pku51c3n	25 kva, 8 tap 250mcm	150	150
(	) pku51a4n	37.5 kva, 6 tap 250mcm	0	150
1	1 pku51b4n	37.5 kva, 6 tap 500mcm	37.5	187.5
(	) pku51c4n	37.5 kva, 8 tap 250mcm	0	187.5
7	7 pku51d4n	37.5 kva, 8 tap 500mcm	262.5	450
(	) pku51a5n	50 kva, 6 tap 250mcm	0	450
(	) pku51b5n	50 kva,6 tap 500mcm	0	450
(	) pku51c5n	50 kva,8 tap 250mcm	0	450
16	3 pku51d5n	50 kva,8 tap 500mcm	800	1250
(	) pku51a6n	75 kva, 6 tap 250mcm	0	1250
(	) pku51b6n	75 kva, 6 tap 500mcm	0	1250
(	) pku51c6n	75 kva,8 tap 250mcm	0	1250
(	) pku51d6n	75 kva, 8 tap 500mcm	0	1250
1	bushcover_arrester	open position on loop tx used as radial		1250
1	1 bushdummy_arreste	normal open tx in loop		
2	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

Qty CU Definition

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

4 FLOH103 Fuse

4 grdmeg1/2

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

<u>Primary Trenching - Labor Only</u>

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 0	COND2G	Conduit, galvanized 2", 10' with coupling, for up terminal pole TEC # 2004389
16156 C	COND2_SCHA	2" PVC Schedule A conduit TEC # 2004488
16506 N	MULE TAPE	Pulling tape - actual length - does not need any 5% adder TEC # 2007414
88 E	ELL2G90	2" elbow 90 galv 9.5" radius TEC # 2004395
1 E	ELL2G45	2" elbow 45 galv 9.5" radius TEC # 2004394
178 0	COUP2P	Coupling, 2" PVC (2 per elbow) TEC # 2004507
33 (	GLUECONDF	2"& 3" pvc 1 qt for 500' fast dry
3 H	HH1PHPRI	1ø splice box (30" x 48" x 18"), UG GR&S 6-21

Summary

#### **Work Request** Number 925022 Primary Cable - Cost for: Material only, TEC labor & overhead, vehicle Qty CU 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 switch cubicle(lbc) 1ph, 200a deadfront, 3 position w/pad, grnd 0 PKU31P3 switch cubicle(lbc) 1ph, 200a deadfront, 4 position w/pad, grnd 0 PKU31P4 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 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, vehi-Qtv CU Definition 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% This CU adds 5% and we want it to. 2c 500 1c 350 neutral, 600v - added 5% here 0 wiu3sn 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 syhottx 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 **Number** 925026 Secondary Conduit - Cost for Material Only Material used by contractors to install the conduit system Qty CU Definition 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 0 ELL2P90 2" elbow 90 PVC 9.5" radius TEC # 2004511 0 ELL2P45 2" elbow 45 PVC 9.5" radius TEC # 2004510 4 FIL3P90 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 4" elbow 45 galv 16" radius TEC # 2004427 0 ELL4G45 0 COUP2P Coupling, 2" PVC (2 per elbow) TEC # 2004507 8 COUP3P Coupling, 3" PVC (2 per elbow) TEC # 2004521 84 COUP4P Coupling, 4" PVC (2 per elbow) TEC # 2004535 1 GLUECONDF 2"& 3" pvc 1 qt for 500' fast dry 8 GLUECONDM 4"& 6" pvc 1 qt for 250' medium dry

#### Work Request **Number** 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 CU Definition Qty 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) Total quantity of 2" conduit for work order - TEC # 2004488 15237 COND2\_SCHA 504 ELL2P90 2" elbow 90 PVC 9.5" radius TEC # 2004395 0 ELL2P45 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 2" PVC Adapter, male thread/female slip TEC # 2004493 188 ADAPT2F/M 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) 3121 COND3\_SCHA Total quantity of 3" conduit for work order - TEC # 2004517 69 ELL3P90 3" elbow 90 PVC 13" radius TEC # 2004524 3" elbow 45 PVC 13" radius TEC # 2004523 0 FH 3P45 23 RISER21/2G7 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 # : Used by contractors to install conduit system 23 ADAPT2F/F 2-1/2"PVC Adapter, male thread/female slip TEC # 2004462

Total Pulling Tape installed in conduit by Primary Contractor) TEC # 2007414

Coupling, 3" PVC (2 per elbow) TEC # 2004521

2"& 3" pvc 1 qt for 500' fast dry

138 COUP3P

13083 MULE TAPE

37 GLUECONDF



**Contact Name:** Tampa Electric

Distribution Services Transformers 2000 Sq Ft **Printed Date:** 3/10/2021

District: CSA

WR No. 924920

Date Sched: 4/1/21 Date Required: 4/1/21

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

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$79,554.38	\$0.00	\$79,554.38
OVERHEAD:	\$11,002.38	\$0.00	\$11,002.38
	\$90,556.76	\$0.00	\$90,556.76
LABOR HOURS:	152.8	0	152.8
LABOR COST:	\$6,726.81	\$0.00	\$6,726.81
OVERHEAD:	\$8,913.02	\$0.00	\$8,913.02
	\$15,639.83	\$0.00	\$15,639.83
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$106,196.59	\$0.00	\$106,196.59
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:	\$106,196.59	\$0.00	\$106,196.59



**Design Number 1** 

**Printed Date: 3/10/2021** Dist: CSA

WR No. 924920

Revised:

			1 age 1 of 1			
Mate	erial Number	Description	Unit Price	Total Cost	Asset?	
INSTALL						
2	2003816	ARRESTER, UD, 10KV PARKING L/A, 8.40 KVR	\$144.06	\$288.12	Υ	
2	2003815	ARRESTER, URD, 10KV ELBOW L/A, 8.40 KVRM	\$63.66	\$127.32	Υ	
4	2003817	ARRESTER, URD, 10KV, BUSHING L/A, 8.40KV	\$192.51	\$770.04	Υ	
30	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$54.00	N	
60	2078000	CLAMP,GND,TRANSFORMER,#10 SOL-#1 STR CU	\$2.31	\$138.60	N	
4	2077931	CONNECTOR, VICE CU #2 STR	\$2.38	\$9.52	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	\$103.25	\$3,097.50	N	
0	2001316	PAD, CONCRETE 44" X 52" X 4" 75-250KVA T	\$115.55	\$0.00	N	
30	2007395	PADLOCK, RED BRASS BODY 1/4" BRASS SHACK	\$22.97	\$689.10	N	
30	2007489	REPELLENT, FIRE ANT GRANULE 4 OZ BIFENTH	\$2.77	\$83.10	N	
120	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$1,646.40	N	
60	2004031	STUD, GALVANIZED, 11 THREAD PER INCH ALL	\$2.47	\$148.20	N	
90	2004904	TERMINAL, SLIP FIT AL 5/8 IN 8-POS #2-50	\$17.94	\$1,614.60	N	
0	2004948	TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 6	\$7.54	\$0.00	N	
0	2004954	TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 6	\$16.58	\$0.00	N	
0	2004950	TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 8	\$8.28	\$0.00	N	
6	2001518	TX,PM,LP,1P,25 kVA,240/120,FR3,SS	\$2,001.00	\$12,006.00	Υ	
8	2001519	TX,PM,LP,1P,37.5 kVA,240/120,FR3,SS	\$2,108.00	\$16,864.00	Υ	
16	2001520	TX,PM,LP,1P,50 kVA,240/120,FR3,SS	\$2,592.00	\$41,472.00	Υ	
0	2001521	TX,PM,LP,1P,75 kVA,240/120,FR3,SS	\$3,044.00	\$0.00	Υ	
180	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$113.40	N	
6	2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.38	\$2.28	N	
			Total	\$79,554.38		



Distribution Services Term Poles - low density 2000 sq ft **Printed Date:** 3/10/2021

District: CSA

WR No. 924957

Date Sched: 4/1/21 Date Required: 4/1/21

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

WR Description: LDUG 2000 sq ft TAKEOFFS

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$1,439.19	\$0.00	\$1,439.19
OVERHEAD:	\$199.05	\$0.00	\$199.05
	\$1,638.24	\$0.00	\$1,638.24
LABOR HOURS:	22.62	0	22.62
LABOR COST:	\$995.03	\$0.00	\$995.03
OVERHEAD:	\$1,318.42	\$0.00	\$1,318.42
	\$2,313.45	\$0.00	\$2,313.45
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$3,951.69	\$0.00	\$3,951.69
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
		\$0.00	\$0.00
CONTRACTOR:	\$0.00	<b>3</b> 0.00	
CONTRACTOR: ADDITIONAL ITEMS:	\$0.00 \$0.00	\$0.00	\$0.00



**Design Number 1** 

**Printed Date: 3/10/2021** Dist: CSA

WR No. 924957

			- 3 -		
Mate	erial Numbe	er Description	Unit Price	<b>Total Cost</b>	Asset?
INSTALL					
4	2003651	ARRESTER, LIGHTNING DISTRIBUTION CLASS 8	\$41.28	\$165.12	Υ
4	2077754	BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.04	\$4.16	N
4	2131366	BRACKET, FG, 1 PH, 1 POS, 18"	\$30.03	\$120.12	N
4	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$7.20	N
4	2077911	CLAMP, HOT LINE CU TO CU #6 SOL- 2 STR T	\$5.73	\$22.92	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	\$0.98	\$11.76	N
4	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$2.64	N
8	2077930	CONNECTOR, VICE CU #4 STR	\$1.91	\$15.28	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	\$70.74	\$282.96	Υ
4	2077793	FUSE LINK, 80A UNVRSL 100A CUTOUT 23" OA	\$6.67	\$26.68	N
4	2077822	KIT, ATTACHMENT, FOR ATTACHING "FLYING"	\$63.00	\$252.00	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	\$13.72	\$219.52	N
4	2077789	SCREW, LAG PILOT POINT 3/8 X 3	\$0.27	\$1.08	N
40	2077997	STAPLE, SECURES 1/2" PVC MOULDING TO WOO	\$0.27	\$10.80	N
4	2077828	STIRRUP, AL BODY & CU BAIL 1/0-397	\$17.19	\$68.76	N
4	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$0.96	N
4	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$2.65	N
12	2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.38	\$4.56	N
			Total	\$1,439.19	



Distribution Services Primary conduit 2000 Sq Ft

**Printed Date:** 3/10/2021

District: CSA

WR No. 925017

Date Sched: 4/1/21 Date Required: 4/1/21

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

INSTALLATION:	Capital	Oper./Maint.	Total	
MATERIAL:	\$22,475.04	\$0.00	\$22,475.04	
OVERHEAD:	\$3,108.30	\$0.00	\$3,108.30	
	\$25,583.34	\$0.00	\$25,583.34	
LABOR HOURS:	223.84	0	223.84	
LABOR COST:	\$9,853.36	\$0.00	\$9,853.36	
OVERHEAD:	\$13,055.70	\$0.00	\$13,055.70	
	\$22,909.06	\$0.00	\$22,909.06	
VEHICLE:	\$0.00	\$0.00	\$0.00	
CONTRACTOR:	\$0.00	\$0.00	\$0.00	
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00	
SUBTOTAL:	\$48,492.40	\$0.00	\$48,492.40	
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	
<del></del>	\$48,492.40	\$0.00	\$48,492.40	



**Design Number 1** 

**Printed Date: 3/10/2021** Dist: CSA

WR No. 925017

Revised:

Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
33	2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$6.22	\$205.26	N
40	2004389	CONDUIT, GALVANIZED 2 IN 10 FT WITH COUP	\$6.78	\$271.20	Υ
16156	2004488	CONDUIT, PVC 2 IN 20 FT BELL END	\$1.03	\$16,640.68	Υ
178	2004507	COUPLING, PVC 2 IN SCH 40 TEMS 13.01	\$0.60	\$106.80	N
88	2004395	ELBOW, 2" 90 DEGREE ,GALVANIZED, 24" MIN	\$34.29	\$3,017.52	N
1	2004394	ELBOW, GALV 2 INCH 45 DEG THD 15" RADIUS	\$26.25	\$26.25	N
3	2004719	HANDHOLE, SPLICING SINGLE PHASE PRIMARY	\$554.21	\$1,662.63	Υ
18157	2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$544.70	N
			Total	\$22,475.04	



Distribution Services Primary cable - 2000 Sq Ft

**Printed Date: 3/11/2021** 

District: CSA

WR No. 925022

Date Sched: 4/1/21 Date Required: 4/21/21

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

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$40,010.51	\$0.00	\$40,010.51
OVERHEAD:	\$5,533.47	\$0.00	\$5,533.47
	\$45,543.98	\$0.00	\$45,543.98
LABOR HOURS:	249.02	0	249.02
LABOR COST:	\$10,961.75	\$0.00	\$10,961.75
OVERHEAD:	\$14,524.30	\$0.00	\$14,524.30
	\$25,486.05	\$0.00	\$25,486.05
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$71,030.03	\$0.00	\$71,030.03
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:			
	0	0	0
LABOR HOURS: LABOR COST:			
OVERHEAD:	\$0.00	\$0.00	\$0.00 \$0.00
0 V Z / W / Z / W .	\$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:	\$71,030.03	\$0.00	\$71,030.03



**Design Number 1** 

**Printed Date: 3/10/2021** Dist: CSA

WR No. 925022

Revised:

Mate	rial Number	Description	Unit Price	Total Cost	Asset?			
INSTALL								
0	2004577	ANCHOR, LEAD EXPANSION, MEDIUM DUTY, SIZ	\$0.66	\$0.00	N			
0	2003157	BOLT, 1/2" - 13 X 1-1/2" 18-8 SS HEX HEA	\$2.59	\$0.00	N			
0	2003167	BOLT, MACHINE GALV HEX HEAD 5/8 X 1-1/4"	\$0.18	\$0.00	N			
17554	2004343	CABLE, ALUMINUM, 15KV, 1/C, 1/0 AWG SOLI	\$2.08	\$33,192.64	Υ			
4	2004514	CAP, CONDUIT 2"	\$12.21	\$48.84	N			
4	2004453	CAP, END CABLE 600 V CABLE RANGE .940 -	\$1.96	\$7.84	N			
4	2003752	CLAMP, CONDUIT GROUND 1-1/4 IN - 2 IN CO	\$7.92	\$31.68	N			
0	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$0.00	N			
80	2004488	CONDUIT, PVC 2 IN 20 FT BELL END	\$1.03	\$82.40	Υ			
8	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$5.28	N			
0	2005009	CONNECTOR, LDBRK 8.3/14.4KV 200A 3POS	\$108.70	\$0.00	N			
77	2077931	CONNECTOR, VICE CU #2 STR	\$2.38	\$183.26	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	\$1,122.04	\$0.00	Υ			
61	2004642	KIT, SEALING, CABLE ACCESSORY, 1/0 - 4/0	\$9.46	\$577.06	N			
0	2001315	PAD, CONCRETE 40" X 45" X 4" 25- 50KVA T	\$103.25	\$0.00	N			
0	2007394	PADLOCK, GREEN, TESS, BRASS BODY, WR2	\$21.24	\$0.00	N			
0	2007489	REPELLENT, FIRE ANT GRANULE 4 OZ BIFENTH	\$2.77	\$0.00	N			
0	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$0.00	N			
32	2004403	STRAP, GALV 2 IN 2 HOLE	\$0.28	\$8.96	N			
61	2004883	TERMINATOR, LOADBREAK 200 AMP, 1/0 SOL	\$37.76	\$2,303.36	Υ			
4	2004634	TERMINATOR, POTHEAD, 1/0 TO 4/0, STEM	\$61.22	\$244.88	Υ			
0	2078005	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8	\$0.23	\$0.00	N			
0	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$0.00	N			
8	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$5.04	N			
			Total	\$40,010.50				



### **Estimate Summary**

Design Number 1

Distribution Services Sec Cable and Handholes 2000 sq ft **Printed Date:** 3/11/2021

District: CSA

WR No. 925024

Date Sched: 4/1/21 Date Required: 4/1/21

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

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$10,194.86	\$0.00	\$10,194.86
OVERHEAD:	\$1,409.95	\$0.00	\$1,409.95
	\$11,604.81	\$0.00	\$11,604.81
LABOR HOURS:	161.28	0	161.28
LABOR COST:	\$7,099.38	\$0.00	\$7,099.38
OVERHEAD:	\$9,406.70	\$0.00	\$9,406.70
	\$16,506.08	\$0.00	\$16,506.08
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$28,110.89	\$0.00	\$28,110.89
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:	\$28,110.89	\$0.00	\$28,110.89



**Design Number 1** 

**Printed Date: 3/10/2021** Dist: CSA

WR No. 925024

Revised:

Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
0	2004351	CABLE, CONVERSE, AL, UG, 600V, 2/C, 2/0,	\$1.01	\$0.00	Υ
2605	2004354	CABLE, SWEETBRIAR, AL, UG, 600V, 2/C, 4/0 AW	\$1.39	\$3,621.23	Υ
0	2004356	CABLE, XHHW-2,AL,UG,600V,2/C,500 MCM, 37	\$4.33	\$0.00	Υ
0	2005021	CONNECTOR, 600V URD, 4 POSITION, CONDUCT	\$16.25	\$0.00	N
0	2005022	CONNECTOR, 600V URD, 6 POSITION, CONDUCT	\$14.92	\$0.00	N
69	2005024	CONNECTOR, 600V URD, 6 POSITION, CONDUCT	\$23.41	\$1,615.29	N
0	2005025	CONNECTOR, 600V, URD, 8 POSITION, CONDUC	\$30.35	\$0.00	N
0	2005020	CONNECTOR, URD 600 V 4 POSITION #10-350M	\$10.92	\$0.00	N
23	2000241	DECAL,WARNING,NOTICE,CLEARANCE,10" X 7"	\$3.56	\$81.88	N
23	2004714	HANDHOLE, ABOVE GRADE, LARGE DOME	\$186.22	\$4,283.06	N
23	2005212	MARKER, CURB LEXAN .040 THICK, ROUND 2.5	\$2.83	\$65.09	N
23	2007395	PADLOCK, RED BRASS BODY 1/4" BRASS SHACK	\$22.97	\$528.31	N
			Total	\$10.194.86	



Distribution Services Secondary conduit-2000 sq ft **Printed Date:** 3/10/2021

District: CSA

WR No. 925026

Date Sched: 4/1/21 Date Required: 4/1/21

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

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$6,602.28	\$0.00	\$6,602.28
OVERHEAD:	\$913.09	\$0.00	\$913.09
	\$7,515.37	\$0.00	\$7,515.37
LABOR HOURS:	63.08	0	63.08
LABOR COST:	\$2,776.65	\$0.00	\$2,776.65
OVERHEAD:	\$3,679.04	\$0.00	\$3,679.04
	\$6,455.69	\$0.00	\$6,455.69
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$13,971.06	\$0.00	\$13,971.06
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:			
	0	0	_
LABOR HOURS:	0	0	0
LABOR COST: OVERHEAD:	\$0.00	\$0.00	\$0.00
OVERNEAD.	\$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:	\$13,971.06	\$0.00	\$13,971.06

LD-19



**Design Number 1** 

**Printed Date: 3/10/2021** Dist: CSA

WR No. 925026

Revised:

Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
1	2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$6.22	\$6.22	N
8	2007228	CEMENT, PVC GRAY MEDIUM DRY QUART W/DAUB	\$7.27	\$58.16	N
0	2004488	CONDUIT, PVC 2 IN 20 FT BELL END	\$1.03	\$0.00	Υ
340	2004517	CONDUIT, PVC P & C 3 IN 20 FT	\$1.70	\$578.00	Υ
1871	2004529	CONDUIT, PVC, 4" X 20', DB-60-TC-6	\$2.78	\$5,201.38	Υ
0	2004507	COUPLING, PVC 2 IN SCH 40 TEMS 13.01	\$0.60	\$0.00	N
8	2004521	COUPLING, PVC 3 IN SCH 40 TEMS 13.01	\$2.95	\$23.60	N
84	2004535	COUPLING, PVC 4 IN SCH 40 TEMS 13.01	\$4.28	\$359.52	N
0	2004511	ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-	\$1.26	\$0.00	N
0	2004427	ELBOW, GALV 4 IN 45 DEG THD 16 IN RAD	\$45.37	\$0.00	N
0	2004510	ELBOW, PVC 2 IN 45 DEG 9-1/2 IN RAD SCH	\$0.94	\$0.00	N
0	2004523	ELBOW, PVC 3 IN 45 DEG 13 IN RAD SCH 40	\$3.62	\$0.00	N
4	2004524	ELBOW, PVC 3 IN 90 DEG 13 IN RAD SCH 40	\$4.52	\$18.08	N
42	2004538	ELBOW, PVC 4", 90 DEG., 16" RADIUS, SCHE	\$6.68	\$280.56	N
2559	2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$76.76	N
			Total	\$6,602.28	



Distribution Services Service Cable-2000 sq ft **Printed Date: 3/11/2021** 

District: CSA

WR No. 925028

Date Sched: 4/1/21 Date Required: 4/1/21

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

INSTALLATION:	Capital	Oper./Maint.	Total	
MATERIAL:	\$23,370.30	\$0.00	\$23,370.30	
OVERHEAD:	\$3,232.12	\$0.00	\$3,232.12	
	\$26,602.42	\$0.00	\$26,602.42	
LABOR HOURS:	1.94	0	1.94	
LABOR COST:	\$85.46	\$0.00	\$85.46	
OVERHEAD:	\$113.22	\$0.00	\$113.22	
	\$198.68	\$0.00	\$198.68	
VEHICLE:	\$0.00	\$0.00	\$0.00	
CONTRACTOR:	\$0.00	\$0.00	\$0.00	
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00	
SUBTOTAL:	\$26,801.10	\$0.00	\$26,801.10	
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:	\$26,801.10	\$0.00	\$26,801.10	



**Design Number 1** 

**Printed Date: 3/11/2021** 

Dist: CSA

WR No. 925028

Revised:

Mate	erial Numbe	r Description	Unit Price	Total Cos	t Asset?
INSTALL					
17795	2004351	CABLE, CONVERSE, AL, UG, 600V, 2/C, 2/0,	\$1.01	\$16,338.77	Υ
3883	2004354	CABLE, SWEETBRIAR, AL,UG,600V,2/C,4/0 AW	\$1.39	\$4,498.04	Υ
			Total	\$23,370.30	



Distribution Services Meter Labor- 2000 sq ft **Printed Date:** 3/10/2021

District: CSA

WR No. 925029

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Low density URD filing 2000 sq ft homes

WR Description: LDUG 2000 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:	42.07	0	42.07
LABOR COST:	\$1,851.92	\$0.00	\$1,851.92
OVERHEAD:	\$2,453.80	\$0.00	\$2,453.80
	\$4,305.72	\$0.00	\$4,305.72
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$4,305.72	\$0.00	\$4,305.72
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:	\$4,305.72	\$0.00	\$4,305.72



### **Estimate Summary**

Design Number 1

Distribution Services Service Conduit- 2000 sq ft **Printed Date:** 3/10/2021

District: CSA

WR No. 925030

Date Sched: 4/1/21 Date Required: 4/1/21

**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:	\$27,272.06	\$0.00	\$27,272.06
OVERHEAD:	\$3,771.72	\$0.00	\$3,771.72
	\$31,043.78	\$0.00	\$31,043.78
LABOR HOURS:	767.62	0	767.62
LABOR COST:	\$33,791.97	\$0.00	\$33,791.97
OVERHEAD:	\$44,774.34	\$0.00	\$44,774.34
	\$78,566.31	\$0.00	\$78,566.31
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$109,610.09	\$0.00	\$109,610.09
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:	\$109,610.09	\$0.00	\$109,610.09



**Design Number 1** 

**Printed Date: 3/10/2021** Dist: CSA

WR No. 925030

Revised:

Mate	rial Numbe	l Number Description		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	\$0.40	\$75.20	N		
37	2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$6.22	\$230.14	N		
23	2004409	COND, SRVC RISER, TYPE IIPVC, 40, 2.5"X7'	\$12.00	\$276.00	N		
15237	2004488	CONDUIT, PVC 2 IN 20 FT BELL END	\$1.03	\$15,694.11	Υ		
2070	2004491	CONDUIT, PVC 2 IN 250 FT ROLL FLEXIBLE	\$1.13	\$2,339.10	N		
23	2004518	CONDUIT, PVC 3 IN X 250 FT ROLL FLEXIBL	\$2.16	\$49.68	N		
3121	2004517	CONDUIT, PVC P & C 3 IN 20 FT	\$1.70	\$5,305.70	Υ		
188	2004401	CONDUIT, SERVICE RISER, PVC, 2"	\$4.92	\$924.96	N		
754	2004507	COUPLING, PVC 2 IN SCH 40 TEMS 13.01	\$0.60	\$452.40	N		
138	2004521	COUPLING, PVC 3 IN SCH 40 TEMS 13.01	\$2.95	\$407.10	N		
504	2004511	ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-	\$1.26	\$635.04	N		
0	2004510	ELBOW, PVC 2 IN 45 DEG 9-1/2 IN RAD SCH	\$0.94	\$0.00	N		
0	2004523	ELBOW, PVC 3 IN 45 DEG 13 IN RAD SCH 40	\$3.62	\$0.00	N		
69	2004524	ELBOW, PVC 3 IN 90 DEG 13 IN RAD SCH 40	\$4.52	\$311.88	N		
188	2004396	NUT, LOCK GALV 2 IN	\$0.54	\$101.52	N		
23	2004408	NUT, LOCK GALV 2-1/2 IN	\$1.06	\$24.38	N		
14391	2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$431.74	N		
			Total	\$27,272.06			



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

	Α	В	С	D	E	F	G	Н	Ţ	J	K	L	M	N
Line #	Work Type/WR #	Description	(C + M ) Material and Handling	Material	(F + L) Total Labor Plus Vehicles	(G + H + I) Total Labor	Base Labor	(G x J x TLF) TEC Labor Overheads	(G x K x CLF) Contract Labor Overheads	TEC Work %	Contractor Work %	Vehicle	(D x MHR) Material Handling	(C+E) Total
	Transfermen													
1	Transformers 925037	Install & Ground Transformers	49,232.37	\$43,871.30	18,530.21	16,572.33	9,649.44	6,148.62	774.27	60%	40%	\$1,957.87	5,361.07	67,762.58
3	923037	ilistali & Ground Transformers	49,232.31	φ43,671.30	10,550.21	10,572.55	9,049.44	0,140.02	114.21	00%	4070	φ1,937.07	5,361.07	07,702.30
4	Primary													
5	925038	Install Primary Line	3,780.00	\$3,368.38	9,895.97	8,850.38	5,153.24	3,283.64	413.50	60%	40%	\$1,045.59	411.62	13,675.97
6		includes Grounding Primary Takeoffs												
7	Poles													
8	925039	Install Poles and Guy Stubs	35,516.15	\$31,648.68	58,469.09	52,291.34	30,447.26	19,400.99	2,443.09	60%	40%	\$6,177.75	3,867.47	93,985.24
9		Includes Haul Poles Out												
10	Secondary 925040	Install Secondary Cable	28,563.08	\$25,452.75	33,643.82	30,089.07	17,519.72	11,163.57	1,405.78	60%	40%	¢2 554 75	3,110.33	62,206.90
12	925040	Install Secondary Cable	20,503.00	\$25,452.75	33,043.02	30,069.07	17,519.72	11,103.57	1,405.76	60%	40%	\$3,554.75	3,110.33	62,206.90
12	Services													
14	926547	Install Service Cable & Meters	31,785.04	\$28,323.86	16,788.28	15,014.46	8,742.35	5,570.63	701.49	60%	40%	\$1,773.82	3,461.18	48,573.32
15			. ,	, -,-	,		,							-,-
16														
17	Engineering	Design/Inspection/Coordination	-	-	13,788.39	13,788.39	-	-	-	100%	0%	-	-	13,788.39
18														
19	Tree Trim		-	-	-	-	-	-	-			-	-	-
20														
21		2, 5, 8, 11, 14, 17, and 19)	\$ 148,876.63 \$	132,664.97	\$ 151,115.76	\$ 136,605.98 \$	71,512.01 \$	45,567.45	\$ 5,738.12			\$ 14,509.79 \$	16,211.66 \$	299,992.39
22	Cost per Lot	(line 21 / 210 lots)	\$ 708.94		\$ 719.60								\$	1,428.54

Adjustment Factors			
TEC Operations Labor Overhead Factor	TLF =	1.062	
Contractor Labor Overhead Factor	CLF =	0.2006	
Current year material handling charge rate	MHR =	0.1222	

#### 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 2021

Work Request #1  Assemblies ===>  Total Quantities ==>	925037 25 KVA PKT11W3F 0	- Transformers (enter the 37.5 KVA PKT11W4F 4	hese Construction Units into V 50 KVA PKT11W5F 17	VorkPro) 75 KVA PKT11W6F 3	Stirrup ALSTRP1/0 24	Spacer SEWC 24	Grounding GRDMEG1/2 24						
Work Request #2  Assemblies ===>  Total Quantities ==>	925038 #2 AAAC WIOPA 10130	- Primary 1st span WIO1F 19	Add'l WIO1A 43	Fused cutout PKP102WB3A 2	Deadend & tap PKP101WA3A 7	2 way lateral PKP105WA4A 2	Fuse FLOH103 2	Grounding GRDMEG1/2 5					
Work Request #3 Should be ====> Assemblies ==>> Total Quantities ==>	925039 Pole haul POLE_HAUL 65	- Poles and Guys 10 tangent STP101_TAN_40C2 12	lø tangent STP101_TAN_45C2 I	1ø Deadend STP401_DE_40C2 11	1ø angle <20 STP101_ANG_40C2 20	1ø angle <20 STP101_ANG_45C2 1	1ø angle >20 STP301_RC_40C2 17	lø angle>20 STP301_RC_45C2 1	3 ø STP104_TAN_45C2 2	Down guys PKG12W2H 56	Pole hardware PKG31W1H 2	Guy wire GUYSTR3/8 70	Down guys PKG11W1H 0
Work Request #4  Assemblies ===>  Total Quantities ==>	925040 2/0 WIO3SB 0	- Secondary - From Secondary - WIO3SC 8000	ondary&Neutral worksheet #2 Neutral WIOPA 2135	1st span WIO1F 9	Add'l WIO1A 2	1st span WIOCF 33	Add'l WIOCA 20	Eyebolt SEW1DEN 4	Eyenut SEG1DEN 12	DE+Bolt PKS11W 30	CABLEOPEN 12		
More of Work Request #4  Assemblies ==>>  Total Quantities =>>	Pole hardware PKG31W1H 16	- Secondary continued Guy wire GUYSTR3/8 1390	- From Secondary&Neutral w POLE_HAUL 35	orksheet and SlackSecondary 35' Class 4 STS11C 35	y (service cable) & Secondar 35' Class 6 STS11B 0	y Poles worksheet 30' Class 6 STS11A 0	Down guy PKG11W1H 0	PKS21G 34	CA2/0TPX 1515	CA4/0TPX 545	SVLABOR 34		

LD-29

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:** 3/10/2021

District: CSA

WR No. 925037

Date Sched: 4/1/21 Date Required: 4/1/21

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:	\$43,871.30	\$0.00	\$43,871.30
OVERHEAD:	\$6,067.39	\$0.00	\$6,067.39
	\$49,938.69	\$0.00	\$49,938.69
LABOR HOURS:	219.24	0	219.24
LABOR COST:	\$9,649.44	\$0.00	\$9,649.44
OVERHEAD:	\$12,785.56	\$0.00	\$12,785.56
	\$22,435.00	\$0.00	\$22,435.00
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$72,373.69	\$0.00	\$72,373.69
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:	\$72,373.69	\$0.00	\$72,373.69



**Design Number 1** 

**Printed Date: 3/10/2021** Dist: CSA

WR No. 925037

	rage rorr				
Mate	rial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
24	2003646	ARRESTER, DISTRIBUTION, 10KV, 8.4KV MCOV	\$39.68	\$952.32	Υ
24	2077754	BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.04	\$24.96	Ν
48	2077755	BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.16	\$55.68	Ν
24	2003690	BRACKET, CUTOUT, ARRESTER & POTHEAD DWG	\$7.22	\$173.28	N
24	2004660	BRACKET,"L" 5-5/8"IN LENGTH FOR MTG CUTO	\$10.41	\$249.84	Ν
312	2004197	CABLE, HANDCOIL, COPPER, 600V, 2/0 AWG,	\$2.32	\$723.84	Ν
36	2004199	CABLE, HANDCOIL, COPPER, 600V, 4/0 AWG,	\$3.75	\$135.00	N
24	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$43.20	N
24	2077911	CLAMP, HOT LINE CU TO CU #6 SOL- 2 STR T	\$5.73	\$137.52	Ν
48	2078000	CLAMP,GND,TRANSFORMER,#10 SOL-#1 STR CU	\$2.31	\$110.88	N
960	2078012	CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$806.40	Ν
6	2003528	CONNECTOR, 2-BOLT AL MAIN 336-500MCM TAP	\$25.78	\$154.68	Ν
63	2077839	CONNECTOR, COMPRESSION H-BLOCK ACSR 1/0-	\$0.53	\$33.39	N
24	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$15.84	N
3	2077845	CONNECTOR, COMPRESSION H-BLOCK ACSR 4/0	\$0.68	\$2.04	N
96	2077930	CONNECTOR, VICE CU #4 STR	\$1.91	\$183.36	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	\$0.39	\$16.38	N
24	2003846	CUTOUT, 15KV, 100A FUSE HLDR, 300A UNVRS	\$70.74	\$1,697.76	Υ
17	2077806	FUSE LINK, 10A UNVRSL 100A CUTOUT 23" OA	\$3.91	\$66.47	N
3	2077807	FUSE LINK, 15A UNVRSL 100A CUTOUT 23" OA	\$3.93	\$11.79	N
4	2077805	FUSE LINK, 7A UNVRSL 100A CUTOUT 23" OAL	\$3.89	\$15.56	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	\$5.35	\$128.40	N
96	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$1,317.12	N
24	2077767	ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16"	\$2.65	\$63.60	N
24	2077789	SCREW, LAG PILOT POINT 3/8 X 3	\$0.27	\$6.48	N
24	2077812	SPACER, CABLED SECONDARY	\$6.79	\$162.96	N
240	2077997	STAPLE, SECURES 1/2" PVC MOULDING TO WOO	\$0.27	\$64.80	N
24	2077826	STIRRUP, AL BODY & CU BAIL 2-4/0	\$10.18	\$244.32	N
4	2001368	TX,OH,37.5 kVA,7.62/13.2Y,120/240,FR3	\$1,253.83	\$5,015.32	Υ
17	2001369	TX,OH,50 kVA,7.62/13.2Y,120/240,FR3	\$1,463.60	\$24,881.20	Υ
3	2001370	TX,OH,75 kVA,7.62/13.2Y,120/240,FR3	\$1,924.56	\$5,773.68	Υ
120	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$28.80	N
72	2078014	WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.11	\$7.92	N
76	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$47.63	N
240	2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.38	\$91.20	N
		· · · · · · · · · · · · · · · · · · ·	Total	\$43,871.30	



Distribution Services LDOH 2000 sq ft Primary **Printed Date:** 3/10/2021

District: CSA

WR No. 925038

Date Sched: 4/1/21 Date Required: 4/1/21

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

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$3,368.38	\$0.00	\$3,368.38
OVERHEAD:	\$465.86	\$0.00	\$465.86
	\$3,834.24	\$0.00	\$3,834.24
LABOR HOURS:	117.08	0	117.08
LABOR COST:	\$5,153.24	\$0.00	\$5,153.24
OVERHEAD:	\$6,828.03	\$0.00	\$6,828.03
	\$11,981.27	\$0.00	\$11,981.27
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$15,815.51	\$0.00	\$15,815.51
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:	\$15,815.51	\$0.00	\$15,815.51



**Design Number 1** 

**Printed Date: 3/10/2021** Dist: CSA

WR No. 925038

Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
5	2003646	ARRESTER, DISTRIBUTION, 10KV, 8.4KV MCOV	\$39.68	\$198.40	Υ
9	2077739	BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.12	\$28.08	Ν
7	2077754	BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.04	\$7.28	Ν
2	2077780	BOLT, SPOOL, 5/8" X 10", GALV. SINGLE UP	\$4.16	\$8.32	N
5	2003681	BRACKET, "L", LIGHTNING ARRESTER 10 KV	\$7.95	\$39.75	N
2	2003685	BRACKET, FIBERGLASS STANDOFF VERTICAL16"	\$25.98	\$51.96	Ν
2	2004660	BRACKET,"L" 5-5/8"IN LENGTH FOR MTG CUTO	\$10.41	\$20.82	Ν
18	2077818	CLAMP, DEADEND ACSR OR AAC #2-4/0OR .30-	\$9.12	\$164.16	Ν
5	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$9.00	N
16	2077911	CLAMP, HOT LINE CU TO CU #6 SOL- 2 STR T	\$5.73	\$91.68	Ν
10637	2004331	CONDUCTOR, BARE OVERHEAD, 2 AWG, AAAC, 7	\$0.15	\$1,595.48	Υ
200	2078012	CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$168.00	N
22	2077838	CONNECTOR, COMPRESSION H-BLOCK ACSR #2-1	\$0.41	\$9.02	N
16	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$10.56	N
10	2077930	CONNECTOR, VICE CU #4 STR	\$1.91	\$19.10	N
15	2077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$71.70	N
2	2003846	CUTOUT, 15KV, 100A FUSE HLDR, 300A UNVRS	\$70.74	\$141.48	Υ
4	2077765	DOUBLE-ARMING, GALVANIZED 5/8 "X 12"	\$2.35	\$9.40	N
2	2077794	FUSE LINK, 103A UNVRSL 100A CUTOUT 23" O	\$24.29	\$48.58	N
2	2077954	INSULATOR, PIN TYPE, 10KV, ANSI CLASS 55	\$3.75	\$7.50	N
2	2077952	INSULATOR, SPOOL, ANSI CLASS 53-3, TRANS	\$1.21	\$2.42	N
9	2077959	INSULATOR, SUSPENSION, POLYMER, 25KV, AP	\$11.86	\$106.74	N
10	2077965	MOULDING, GROUND WIRE, PVC 1/2 IN X 8 FT	\$1.74	\$17.40	N
9	2077783	NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	\$1.51	\$13.59	N
20	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$274.40	N
7	2077789	SCREW, LAG PILOT POINT 3/8 X 3	\$0.27	\$1.89	N
50	2077997	STAPLE, SECURES 1/2" PVC MOULDING TO WOO	\$0.27	\$13.50	N
2	2077828	STIRRUP, AL BODY & CU BAIL 1/0-397	\$17.19	\$34.38	N
14	2077826	STIRRUP, AL BODY & CU BAIL 2-4/0	\$10.18	\$142.52	N
2	2003613	TIE, TOP, FORMED WIRE #2 ACSR OR #2 AAAC	\$2.87	\$5.74	N
22	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$5.28	N
4	2078014	WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.11	\$0.44	N
67	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$42.21	N
20	2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.38	\$7.60	N
			Total	\$3,368.37	



Distribution Services LDOH 2000 sq ft - POLES

**Printed Date:** 3/10/2021

District: CSA

WR No. 925039

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Used for 2000 square foot design

WR Description: LDOH 2000 sq ft POLES

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$31,648.68	\$0.00	\$31,648.68
OVERHEAD:	\$4,377.02	\$0.00	\$4,377.02
	\$36,025.70	\$0.00	\$36,025.70
LABOR HOURS:	691.7	0	691.7
LABOR COST:	\$30,447.26	\$0.00	\$30,447.26
OVERHEAD:	\$40,342.60	\$0.00	\$40,342.60
	\$70,789.86	\$0.00	\$70,789.86
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$106,815.56	\$0.00	\$106,815.56
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:	\$106,815.56	\$0.00	\$106,815.56



**Design Number 1** 

**Printed Date: 3/10/2021** Dist: CSA

WR No. 925039

Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
56	2003632	ANCHOR,SCRW GALV 10" WING 1-1/4" ROD 8"	\$48.15	\$2,696.40	Ν
37	2077739	BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.12	\$115.44	N
114	2077764	BOLT, MACHINE 3/4" X 12", GALV	\$2.41	\$274.74	N
68	2077754	BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.04	\$70.72	N
40	2077753	BOLT, MACHINE 5/8" X 8", GALV.	\$1.05	\$42.00	N
2	2077780	BOLT, SPOOL, 5/8" X 10", GALV. SINGLE UP	\$4.16	\$8.32	N
44	2077755	BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.16	\$51.04	N
4	2003686	BRACKET, FIBERGLASS STANDOFF VERTICAL24"	\$48.88	\$195.52	N
18	2077818	CLAMP, DEADEND ACSR OR AAC #2-4/0OR .30-	\$9.12	\$164.16	N
19	2003508	CLAMP, SUSPENSION AL ANGLE RANGE .50 TO	\$13.95	\$265.05	N
40	2077924	CLEVIS, STEEL LESS INSULATOR 5/8 IN PIN	\$9.38	\$375.20	N
315	2078012	CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$264.60	N
60	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$39.60	N
63	2077930	CONNECTOR, VICE CU #4 STR	\$1.91	\$120.33	N
4	2077765	DOUBLE-ARMING, GALVANIZED 5/8 "X 12"	\$2.35	\$9.40	N
56	2003636	EXTENSION ROD, ANCHOR 1-1/4 X 72 6 FT	\$50.54	\$2,830.24	N
36	2077901	FIBERGLASS RIDGE-PIN	\$28.87	\$1,039.32	N
226	2077949	GRIP,GUY,FORMED WIRE DEADEND,3/8"EHS	\$2.27	\$513.02	N
37	2077862	GUARD, LINE #2 ACSR & AAAC STR 6/1, 7	\$1.95	\$72.15	N
114	2077951	HOOK, GUY	\$2.73	\$311.22	N
40	2077954	INSULATOR, PIN TYPE, 10KV, ANSI CLASS 55	\$3.75	\$150.00	N
2	2077952	INSULATOR, SPOOL, ANSI CLASS 53-3, TRANS	\$1.21	\$2.42	N
58	2077961	INSULATOR, STRAIN FIBERGLASS 36 IN 15,00	\$14.73	\$854.34	N
37	2077959	INSULATOR, SUSPENSION, POLYMER, 25KV, AP	\$11.86	\$438.82	N
56	2077979	MARKER, GUY WIRE PLASTIC 8' IN LENGTH CO	\$4.43	\$248.08	N
60	2002857	POLE, WOOD, 40FT CLASS 2, CCA TREATED	\$272.68	\$16,360.80	Υ
5	2002858	POLE, WOOD, 45 FT CLASS 2, CCA TREATED.	\$323.31	\$1,616.55	Υ
31	2077767	ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16"	\$2.65	\$82.15	N
114	2077790	SCREW, LAG 1/2" X 4", GALV., TWIST DRIVE	\$0.47	\$53.58	N
71	2077812	SPACER, CABLED SECONDARY	\$6.79	\$482.09	N
21	2003612	TIE, PREFORMED SIDE TIE #2 ACSR OR #2 A	\$2.64	\$55.44	N
19	2003613	TIE, TOP, FORMED WIRE #2 ACSR OR #2 AAAC	\$2.87	\$54.53	N
114	2078002	WASHER, CURVED, MALLEABLE, 3" X 3"	\$1.22	\$139.08	N
221	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$53.04	N
217	2078014	WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.11	\$23.87	N
4774	2005879	WIRE,GUY,EHS STEEL,GALV,3/8",15.4K RBS	\$0.33	\$1,575.42	N
			Total	\$31,648.68	



Distribution Services LDOH 2000 sq ft Secondary **Printed Date:** 3/10/2021

District: CSA

WR No. 925040

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Used for 2000 sq ft  $3.5\,\mathrm{TON}\,\mathrm{AC}$  design

WR Description: LDOH 2000 sq ft SECONDARY

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$25,452.75	\$0.00	\$25,452.75
OVERHEAD:	\$3,520.12	\$0.00	\$3,520.12
	\$28,972.87	\$0.00	\$28,972.87
LABOR HOURS:	397.97	0	397.97
LABOR COST:	\$17,519.72	\$0.00	\$17,519.72
OVERHEAD:	\$23,213.62	\$0.00	\$23,213.62
	\$40,733.34	\$0.00	\$40,733.34
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$69,706.21	\$0.00	\$69,706.21
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:	\$69,706.21	\$0.00	\$69,706.21



**Design Number 1** 

**Printed Date: 3/10/2021** Dist: CSA

WR No. 925040

	. 490 . 0. 1				
Mate	rial Number	Description	Unit Price	Total Cost	Asset?
INSTALL					
8	2003632	ANCHOR,SCRW GALV 10" WING 1-1/4" ROD 8"	\$48.15	\$385.20	N
34	2077739	BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.12	\$106.08	N
24	2077764	BOLT, MACHINE 3/4" X 12", GALV	\$2.41	\$57.84	N
8	2077755	BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.16	\$9.28	N
8400	2004339	CABLE, OVERHEAD SECONDARY, TRIPLEX, 4/0	\$1.72	\$14,448.00	Υ
1591	2004364	CABLE, SERVICE DROP AL 2-2/0 & 1-1/0 NEU	\$0.96	\$1,527.17	Υ
627	2004366	CABLE, SERVICE DROP AL 2-4/0 & 1-2/0 NEU	\$1.42	\$890.06	Υ
64	2077818	CLAMP, DEADEND ACSR OR AAC #2-4/0OR .30-	\$9.12	\$583.68	N
2242	2004331	CONDUCTOR, BARE OVERHEAD, 2 AWG, AAAC, 7	\$0.15	\$336.27	Υ
192	2077839	CONNECTOR, COMPRESSION H-BLOCK ACSR 1/0-	\$0.53	\$101.76	Ν
30	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$19.80	N
30	2077931	CONNECTOR, VICE CU #2 STR	\$2.38	\$71.40	Ν
128	2003516	COVER, SNAP-ON SQUEEZON CONNECTOR D DIE	\$0.39	\$49.92	N
8	2003636	EXTENSION ROD, ANCHOR 1-1/4 X 72 6 FT	\$50.54	\$404.32	Ν
32	2077949	GRIP,GUY,FORMED WIRE DEADEND,3/8"EHS	\$2.27	\$72.64	N
24	2077951	HOOK, GUY	\$2.73	\$65.52	Ν
16	2077961	INSULATOR, STRAIN FIBERGLASS 36 IN 15,00	\$14.73	\$235.68	Ν
8	2077979	MARKER, GUY WIRE PLASTIC 8' IN LENGTH CO	\$4.43	\$35.44	Ν
46	2077783	NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	\$1.51	\$69.46	Ν
0	2002836	POLE, WOOD 30 FT CLASS 6 CCA TREATED NO	\$82.69	\$0.00	Υ
35	2002842	POLE, WOOD, 35 FT, CLASS 4, CCA TREATED.	\$141.93	\$4,967.55	Υ
35	2077767	ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16"	\$2.65	\$92.75	N
24	2077790	SCREW, LAG 1/2" X 4", GALV., TWIST DRIVE	\$0.47	\$11.28	N
35	2077812	SPACER, CABLED SECONDARY	\$6.79	\$237.65	Ν
24	2078002	WASHER, CURVED, MALLEABLE, 3" X 3"	\$1.22	\$29.28	N
108	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$25.92	N
105	2078014	WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.11	\$11.55	N
60	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$37.80	N
1726	2005879	WIRE,GUY,EHS STEEL,GALV,3/8",15.4K RBS	\$0.33	\$569.58	N
			Total	\$25,452.75	



Distribution Services LDOH 2000 sq ft SERVICE **Printed Date:** 3/10/2021

District: CSA

WR No. 926547

Date Sched: 4/1/21 Date Required: 4/1/21

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

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$9,449.06	\$0.00	\$9,449.06
OVERHEAD:	\$1,306.80	\$0.00	\$1,306.80
	\$10,755.86	\$0.00	\$10,755.86
LABOR HOURS:	198.6	0	198.6
LABOR COST:	\$8,742.35	\$0.00	\$8,742.35
OVERHEAD:	\$11,583.63	\$0.00	\$11,583.63
	\$20,325.98	\$0.00	\$20,325.98
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$31,081.84	\$0.00	\$31,081.84
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:	\$31,081.84	\$0.00	\$31,081.84



**Design Number 1** 

**Printed Date: 3/10/2021** Dist: CSA

WR No. 926547

Revised:

Mat	erial Numbe	r Description	Unit Price	Total Cost	Asset?
INSTALL					
9828	2004364	CABLE, SERVICE DROP AL 2-2/0 & 1-1/0 NEU	\$0.96	\$9,434.88	Υ
0	2004366	CABLE, SERVICE DROP AL 2-4/0 & 1-2/0 NEU	\$1.42	\$0.00	Υ
2	2003770	CLAMP, MID SPAN ALUMINUM 1/4 IN - 1/2 IN	\$7.09	\$14.18	N
			Total	\$9,449.06	

### 4/2021

### HIGH DENSITY MODEL

(176 lots)

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

	MATER	IAL	LABO	)R	TOTA	L		
ITEM	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE	EXPLANATION OF % CHANGE	
SERVICE	288.33	66.47%	260.66	46.99%	548.99	56.62%	Underground material up, contractor rates up	
PRIMARY	138.27	29.97%	61.14	18.53%	199.41	26.23%	Underground material up, Cable labor re-evaluation caused labor increase	
SECONDARY	78.14	99.59%	70.32	26.07%	148.46	56.39%	Underground material up, Cable labor re-evaluation caused labor increase	
TRANSFORMERS	267.25	7.38%	68.77	11.21%	336.02	8.14%	Underground material up, TEC & Contractor overhead down	
TRENCHING								
PRIMARY & SECONDARY			175.02	-11.71%	175.02	-11.71%	Contractor rates down	
SERVICES			317.91	-7.46%	317.91	-7.46%	Contractor rates down	
SUB-TOTAL	771.99	36.00%	953.82	7.38%	1,725.81	18.54%		
STORES HANDLING	94.34	18.89%			94.34	18.89%	Higher material costs produces higher handling costs	
SUB-TOTAL	866.33	33.90%	953.82	7.38%	1,820.15	18.56%		
ENGINEERING			61.28	0.00%	61.28	0.00%		
TOTAL	866.33	33.90%	1,015.10	6.90%	1,881.43	17.84%		
					583.66		Value of the Life Cycle Operational Cost Including Storm and Lost Pole Attachment Revenue	
Total with NPV Factor					2,465.09	Total Including NPV of Operational Cost		

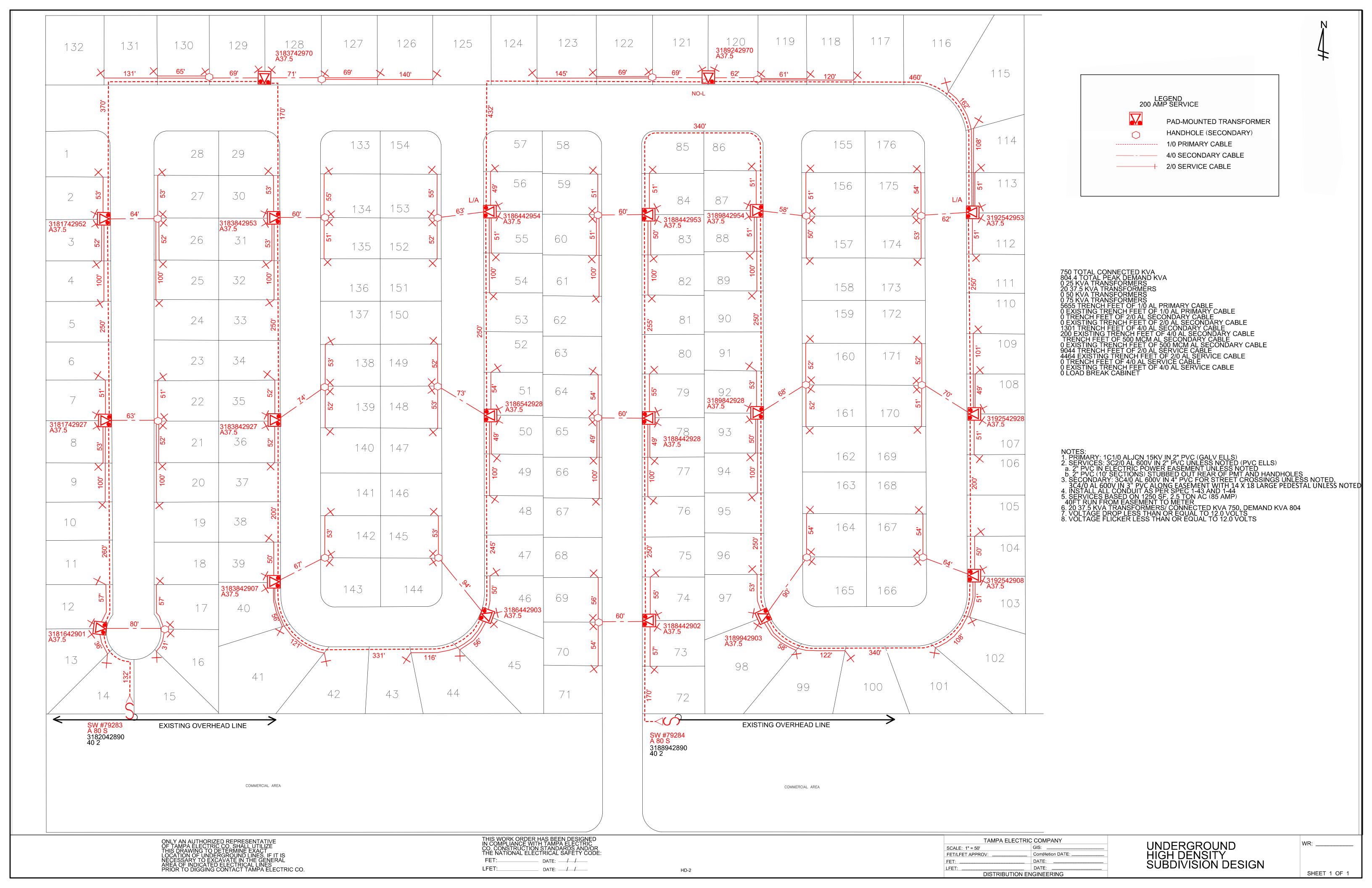
### Overhead Costs (per lot)

	MATE	RIAL	LABO	DR .	TOTAL			
ITEM	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE	EXPLANATION OF % CHANGE	
SERVICE	142.24	70.76%	91.83	6.98%	234.07	38.39%	Material up, Labor up	
PRIMARY	12.88	19.59%	35.17	17.70%	48.05	18.20%	Material up, Labor up	
SECONDARY	64.40	10.81%	106.36	-1.55%	170.76	2.77%	Material up, Labor down	
INITIAL TREE TRIM			0.00		0.00			
POLES	113.97	8.83%	205.55	10.04%	319.52	9.61%	Material up, Labor up	
TRANSFORMERS	157.68	3.30%	70.27	11.95%	227.95	5.82%	Material up, Labor up	
SUB-TOTAL	491.17	19.93%	509.18	7.58%	1,000.35	13.31%		
STORES HANDLING	60.02	4.82%			60.02	4.82%	Higher material costs produces higher handling costs	
SUB-TOTAL	551.19	18.07%	509.18	7.58%	1,060.37	12.79%		
ENGINEERING			61.28	0.00%	61.28	0.00%		
TOTAL	551.19	18.07%	570.46	6.71%	1,121.65	12.01%		
							t Value of the Life Cycle Operational Cost Including Storm and Lost Pole Attachment Revenue	
Total with NPV Factor					2,529.85	Total Including NPV of Operational Cost		

### Differential Costs (per lot)

	MATERIAL		LABO	R	TOTAL	
ITEM	COST	% CHANGE	COST	% CHANGE	COST	% CHANGE
Differential (per lot)	315.14	74.92%	444.64	7.15%	759.78	27.66%
NPV amount					-824.54	
Differential (per lot)					-64.76	-90.55%

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	51,230.95	\$45,652.25	5,902.34	5,278.71	\$3,073.59	1,958.49	246.62	60%	40%	\$623.63	5,578.70	57,133.29
3	925095	Ground Transformer	1,553.57	\$1,384.40	2,747.51	2,457.21	\$1,430.74	911.67	114.80	60%	40%	\$290.30	169.17	4,301.08
4	Contracto	or Prepare Pad Site	-	-	3,453.17	3,453.17	\$2,876.20	-	576.97	0%	100%	-	-	3,453.17
5			52,784.53	47,036.65	12,103.01	11,189.08	7,380.53	2,870.16	938.39			913.93	5,747.88	64,887.54
6	Primary													
7	925096	Primary Line - OH-UG Takeoffs	683.67	\$609.22	710.03	635.01	\$369.74	235.60	29.67	60%	40%	\$75.02	74.45	1,393.69
8	925097	Ground OH to UG Take-offs	155.36	\$138.44	317.36	283.82	\$165.26	105.30	13.26	60%	40%	\$33.53	16.92	472.71
9	925098	Primary Conduit (Material Only)	9,381.68	\$8,360.08	-	-	-	-	-			-	1,021.60	9,381.68
10	925100	Primary Cable	17,088.65	\$15,227.81	9,733.47	8,705.05	\$5,068.62	3,229.72	406.71	60%	40%	\$1,028.42	1,860.84	26,822.12
11			27,309.35	24,335.55	10,760.86	9,623.88	5,603.62	3,570.63	449.63			1,136.97	2,973.80	38,070.21
12	Secondary													
13	925103	Secondary Cable	9,649.74	\$8,598.95	12,377.13	11,069.38	\$6,445.28	4,106.93	517.17	60%	40%	\$1,307.75	1,050.79	22,026.87
14	925104	Secondary Conduit (Material Only)	5,783.11	\$5,153.37									629.74	5,783.11
15			15,432.85	13,752.32	12,377.13	11,069.38	6,445.28	4,106.93	517.17			1,307.75	1,680.53	27,809.98
16	Service													
17	925106	Service Cable	18,244.13	\$16,257.47	42,893.98	42,893.98	\$35,727.12	-	7,166.86	0%	100%	-	1,986.66	61,138.11
18	925108	Set Meters	17,751.95	\$15,818.88	2,981.50	2,666.48	\$1,552.59	989.31	124.58	60%	40%	\$315.02	1,933.07	20,733.45
19	925110	Service Conduit (Material Only)	20,950.73	\$ <u>18,669.34</u>									2,281.39	20,950.73
20			56,946.81	50,745.69	45,875.48	45,560.46	37,279.71	989.31	7,291.44			315.02	6,201.12	102,822.29
21	Trenching													
22	Contractor	Primary Trenching	-	-	17,584.53	17,584.53	\$14,646.45	-	2,938.08	0%	100%	-	-	17,584.53
23	Contractor	Secondary Trenching	-	-	4,372.98	4,372.98	\$3,642.33	-	730.65	0%	100%	-	-	4,372.98
24	TEC Inspection	on for Primary			8,846.62	8,385.42	\$8,385.42			0%	0%	\$461.20		8,846.62
25			-	-	30,804.13	30,342.93	26,674.20	-	3,668.73			461.20	-	30,804.13
26														
27	Contractor	Svc Trenching Pri. Prop	-	-	33,344.02	33,344.02	\$27,772.80	-	5,571.22	0%	100%	-	-	33,344.02
28	Contractor	Svc Trenching Rts-of-Wy	-	-	14,437.70	14,437.70	\$12,025.40	-	2,412.30	0%	100%	-	-	14,437.70
29	TEC Inspection	on for Service			8,169.92	7,744.00	\$7,744.00			0%	0%	\$ <u>425.92</u>		8,169.92
30			-	-	55,951.64	55,525.72	47,542.20	-	7,983.52			425.92	-	55,951.64
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)	152,473.55		178,657.87	163,311.45	130,925.54	11,537.03	20,848.89			4,560.79	16,603.34	331,131.42
35	Cost "Per Lot" (Line 3	34/ 176 lots)	866.33		1,015.10									1,881.43

Adjustment Factors			
TEC Labor Overhead Factor (excludes engineering)	TLF =	1.062	
Contractor Labor Overhead Factor	CLF =	0.2006	
Current year material handling charge rate	MHR =	0.1222	

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

- 1. Update the contractor labor rates on this page. The numbers to be updated are highlighted in blue.
- 1a. Hover over the red comment symbol in the corner of the cell. That refers to the source of the information. The contractor labor rates come from the E.D. Field Construction Department - the Conduit Coordinators -Mike Capparelli, Steve Furry, Jerry Manning, Bill Baxter.
- 2. Transfer the contractors costs to the HDdifferentialMonth-Year xls file. The numbers are highlighted in yellow
- 2a. Hover over the red comment symbol in the corner of the cell that refers to the destination of the contractor cost.
- 3. In 2006 TEC added pad site preparation cost, a contractor cost.

### Prepare pad site (Primary Contractor Labor Costs)

Total Pad site preparation

Cost \$143.81 Pad sites Total

### Primary Trenching & Conduit (Primary Contractor Labor Costs) Total Cost Feet

Total	0031	1 001	
\$11,762.40	\$2.08	5655	Trenching Cost
\$2,884.05	\$0.51	5655	Conduit Installation - 2"
\$0.00	\$0.00	5655	Pull-tape Installation (used exact length for labor cost not 5% extra)

\$14,646.45 Primary Trenching Total

#### Secondary Trenching & Conduit (Primary Contractor Labor Costs)

<u>Total</u>	Cost	Feet	
\$2,706.08	\$2.08	1301	Trenching Cost
\$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)

\$3,642.33 Secondary Trenching Total

### 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
\$4,196.28	\$0.51	8228	Conduit Installation - 2"
\$0.00	\$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)

	<u>i otai</u>	Cost	reet	
Svc Trenching Pri. Prop	Sub-total \$27,772.80	\$5.26	5280	Trenching feet and conduit = 30ft x 1

#### Service Cable (Service Contractor Labor Costs)

<u>Total</u> <u>Cost</u> Feet Sub-total \$35,727.12 15268 Installing 2/0 or 4/0 Cable in existing conduit Total \$75,525.32

Inspection (TECO Labor Cost)

#### TEC Labor TEC Labor TEC Vehicle TEC Vehicle <u>Total</u> Rate Feet/Qty Rate **Total** \$4,423.47 5655 \$243.29 \$55.97 \$1.017.67 \$88,00 1301 \$4 84 \$2,944.28 **Sub-total \$8,385.42** \$88.00 3764 \$4.84 \$161.94

Inspection costs for Primary Contractor (TECO Labor Cost) Primary Inspection chg = (mach. trnch ft / 900 ft per day)\*(8 hr/day)\*Contractor rateSecondary Inspection chg = (mach. trnch ft / 900 ft per day)\*(8 hr/day)\*Contractor rate Service ROW Inspection chg = (machine trench ft / 900 ft per day)\*(8 hr/day)\*Contractor rate

TEC Labor TEC Labor TEC Vehicle TEC Vehicle Inspection costs for Service Contractor (TECO Labor Cost)
Service Private Property Inspection = .5hr x # of lots x rate Feet/Qty Rate **Total** Total Rate \$7,744.00 \$88.00 \$2.42 \$425.92 176 Sub-total \$7,744.00 \$425.92

\$461.20

### 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

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

This worksheet summarizes the entries from the other worksheets (from PoleAveA through PoleOakHill) and provides the Contractor Labor worksheet with input totals to calculate contractor costs.

# Station All Stations - This information is used to create Work Requests to obtain costs. Transfer the values from Qty and CU columns highlighted in yellow to the WorkPro Work Requests to obtain costs. Those costs are then entered into the HDdifferential.xls workbook to calculate the High Density Differential cost.

<=== Blue shading indicates fields to be updated.

#### Work Request

<u>Number</u>	<b>Transformer Material CUs</b>
925091	

Qty	CU	Definition	Total Conn	ected KVA
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
0	pku51b6n	75 kva, 6 tap 500mcm	0	750
0	pku51c6n	75 kva,8 tap 250mcm	0	750
0	pku51d6n	75 kva, 8 tap 500mcm	0	750
1	bushcover	Cover hot Tx bushing - at open position on loa	op tx, or at rac	dial Tx
1	bushdummy	Parking bushing at normal open tx in loop		

#### Work Request

Number	
925095	

### **Ground Pad Mounted Tx - Material CUs**

Qty CU Definition

20 grdmeg1/2 meggar ground, drive rods, 1 location, 1/2" rods

### Work Request

work Reque	•
Number	
925096	

### Primary Overhead - Material CUs

Qty CU
2 PKE601WF1B
2 FLOH103

Definition

TEC material & labor to frame terminal pole CO & LA Fuse

### Work Request

Number 925097

Meggar Ground at Terminal Pole

Qty CU Definition

2 grdmeg1/2 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

5655 Trenching feet required for 2" primary conduit

0 Existing trench feet used for 2" primary conduit

5655 Install Pulling Tape (blow in tape for pull - trench feet used to determine contractor cost)

### Work Request

Number	<b>Primary Cable</b>
925100	

Qty CU	Definition	
2 pku16wf	pothead, 38' 1c 1/0AL cable, 20' pvc, ground conn, wood pole	76
40 pku11f	safebreak, 5' 1c 1/0AL cable, ground conn	200
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	
5655 CA1/0CN1CA	L cable, 1/0AL concentric neutral 15kV includes labor - round up to	6524.1
0 wiu1f	labor to pull ug cable in conduit	

Work Request

Number Primary Conduit - Material Only

925098 Material used by contractors to install the conduit system

Qty CU Definition

20 5512000 Conduit, galvanized 2", 10' with coupling, for up terminal pole 5875 5522000 2" conduit
6095 5853530 Pulling tape - actual length
48 5512220 2" elbow 90 galv 9.5" radius
8 5512210 2" elbow 45 galv 9.5" radius
112 5522180 Coupling, 2" PVC (2 per elbow)
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

0 wiu3sb 2c 2/0 1c 1 neutral, 600 v - added 5% here

1691 CA4/0INS3CAI 2c 4/0 1c 2/0 neutral, 600v includes labor - added 5% he 2029.2 2c 500 1c 350 neutral, 600v - added 5% here

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 66 insbus500/6 crab 6 position up to 500mcm 0 insbus500/8 crab 8 position up to 500mcm labor to pull ug cable in conduit 0 wiu1f 22 svhottx energize ug secondary in transformer 22 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

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 u

### 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

2" elbow 90 PVC 9.5" radius 0 5522210 2" elbow 45 PVC 9.5" radius 3" elbow 90 PVC 13" radius 3" elbow 90 PVC 13" radius 3" elbow 45 PVC 13" radius 4" elbow 90 PVC 16" radius 4" elbow 90 galv 30" radius 4" elbow 45 galv 16" radius 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 4"& 6" pvc 1 qt for 250' medium dry

Work Request Number Set Meter 925108 Qty CU Definition 176 meterlabor 176 1900006 meter kwh 30a 240v Service Trenching - Labor Only - Done By Contractors Used to determine contractor labor cost on the Contractor Labor worksheet CU Definition Qty 176 Number of 2/0 services 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 Material used by contractors to install the conduit system 925106 CU Definition Qty 2c 2/0 & 1c 1 neutral, 600 v service cable 16031.4 0 wiu3sc 2c 4/0 & 1c 2/0 neutral, 600 v service cable Work Request 15268 Number Service Conduit Material Only Material used by contractors to install the conduit system 925110 Qty 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 176 5522050 2" PVC Adapter, male thread/female slip 176 5512370 2" PVC Service Riser 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 0 Pulling Tape installed in 3" conduit by Primary Contractor) 0 5523000 Total 3" conduit for work order quantity

3" elbow 90 PVC 13" radius at house riser

3" elbow 90 PVC 13" radius

3" elbow 45 PVC 13" radius

2-1/2" house riser

0 5523220

0 5523210

0 5512770

0 5523220



**Contact Name:** Tampa Electric

Distribution Services **HDUG Transformers**  **Printed Date:** 3/11/2021

District: CSA

WR No. 925091

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Full PSC Filing 10/2010

WR Description: HDUG 1250 sq ft TRANSFORMERS

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$45,652.25	\$0.00	\$45,652.25
OVERHEAD:	\$6,313.70	\$0.00	\$6,313.70
	\$51,965.95	\$0.00	\$51,965.95
LABOR HOURS:	69.84	0	69.84
LABOR COST:	\$3,073.59	\$0.00	\$3,073.59
OVERHEAD:	\$4,072.50	\$0.00	\$4,072.50
	\$7,146.09	\$0.00	\$7,146.09
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$59,112.04	\$0.00	\$59,112.04
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: 3/11/2021** Dist: CSA

WR No. 925091

Mate	rial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
1	2004816	BUSHING, PARKING, 15KV, INSULATED	\$38.70	\$38.70	N
20	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$36.00	N
40	2078000	CLAMP,GND,TRANSFORMER,#10 SOL-#1 STR CU	\$2.31	\$92.40	N
2	2077931	CONNECTOR, VICE CU #2 STR	\$2.38	\$4.76	N
1	2004817	COVER, BUSHING 15 KV PDMT EQUIP W/FLEXIB	\$25.11	\$25.11	N
20	2001315	PAD, CONCRETE 40" X 45" X 4" 25- 50KVA T	\$103.25	\$2,065.00	N
20	2007395	PADLOCK, RED BRASS BODY 1/4" BRASS SHACK	\$22.97	\$459.40	N
20	2007489	REPELLENT, FIRE ANT GRANULE 4 OZ BIFENTH	\$2.77	\$55.40	N
40	2004031	STUD, GALVANIZED, 11 THREAD PER INCH ALL	\$2.47	\$98.80	N
9	2004948	TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 6	\$7.54	\$67.86	N
6	2004954	TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 6	\$16.58	\$99.48	N
45	2004950	TERMINAL, SLIP FIT ALUMINUM STUD TYPE, 8	\$8.28	\$372.60	N
20	2001519	TX,PM,LP,1P,37.5 kVA,240/120,FR3,SS	\$2,108.00	\$42,160.00	Υ
120	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$75.60	N
3	2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.38	\$1.14	N
			Total	\$45,652.25	



Distribution Services HDUG GRD Transformers **Printed Date:** 3/11/2021

District: CSA

WR No. 925095

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Full PSC Filing 10/2010

WR Description: HDUG 1250 sq ft GROUND TRANSFORMERS

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$1,384.40	\$0.00	\$1,384.40
OVERHEAD:	\$191.46	\$0.00	\$191.46
	\$1,575.86	\$0.00	\$1,575.86
LABOR HOURS:	32.5	0	32.5
LABOR COST:	\$1,430.74	\$0.00	\$1,430.74
OVERHEAD:	\$1,895.73	\$0.00	\$1,895.73
	\$3,326.47	\$0.00	\$3,326.47
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$4,902.33	\$0.00	\$4,902.33
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:	\$4,902.33	\$0.00	\$4,902.33



**Design Number 1** 

**Printed Date: 3/11/2021** 

Dist: CSA

WR No. 925095

Revised:

Mat	Material Number Description		Unit Price	<b>Total Cost</b>	Asset?	
INSTALL						
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	\$13.72	\$1,097.60	N	
			Total	\$1,384.40		



Distribution Services HDUG FRAME OH Takeoff **Printed Date:** 3/11/2021

District: CSA

WR No. 925096

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Full PSC Filing 10/2010 WR Description: HDUG 1250 sq ft TAKEOFFS

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$609.22	\$0.00	\$609.22
OVERHEAD:	\$84.24	\$0.00	\$84.24
	\$693.46	\$0.00	\$693.46
LABOR HOURS:	8.4	0	8.4
LABOR COST:	\$369.74	\$0.00	\$369.74
OVERHEAD:	\$489.92	\$0.00	\$489.92
	\$859.66	\$0.00	\$859.66
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$1,553.12	\$0.00	\$1,553.12
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
			ቀለ በበ
VEHICLE:	\$0.00	\$0.00	\$0.00
VEHICLE: CONTRACTOR:	•		\$0.00
	\$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	
CONTRACTOR:	\$0.00	\$0.00	\$0.00



**Design Number 1** 

**Printed Date: 3/11/2021** Dist: CSA

WR No. 925096

Mate	rial Numbe	er Description	Unit Price	<b>Total Cost</b>	Asset?
INSTALL					
2	2003651	ARRESTER, LIGHTNING DISTRIBUTION CLASS 8	\$41.28	\$82.56	Υ
2	2077754	BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.04	\$2.08	N
2	2131366	BRACKET, FG, 1 PH, 1 POS, 18"	\$30.03	\$60.06	N
2	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$3.60	N
2	2077911	CLAMP, HOT LINE CU TO CU #6 SOL- 2 STR T	\$5.73	\$11.46	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	\$0.98	\$5.88	N
2	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$1.32	N
4	2077930	CONNECTOR, VICE CU #4 STR	\$1.91	\$7.64	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	\$70.74	\$141.48	Υ
2	2077794	FUSE LINK, 103A UNVRSL 100A CUTOUT 23" O	\$24.29	\$48.58	N
2	2077822	KIT, ATTACHMENT, FOR ATTACHING "FLYING"	\$63.00	\$126.00	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	\$13.72	\$0.00	N
2	2077789	SCREW, LAG PILOT POINT 3/8 X 3	\$0.27	\$0.54	N
20	2077997	STAPLE, SECURES 1/2" PVC MOULDING TO WOO	\$0.27	\$5.40	N
2	2077828	STIRRUP, AL BODY & CU BAIL 1/0-397	\$17.19	\$34.38	N
2	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$0.48	N
2	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$1.32	N
6	2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.38	\$2.28	N
			Total	\$609.22	



Dist Svcs

HDUG GRD takeoff POLE

**Printed Date:** 3/11/2021

District: CSA

WR No. 925097

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Full PSC Filing 10/2010

WR Description: HDUG 1250 sq ft GROUND TAKEOFFS

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$138.44	\$0.00	\$138.44
OVERHEAD:	\$19.15	\$0.00	\$19.15
	\$157.59	\$0.00	\$157.59
LABOR HOURS:	3.75	0	3.75
LABOR COST:	\$165.26	\$0.00	\$165.26
OVERHEAD:	\$218.97	\$0.00	\$218.97
	\$384.23	\$0.00	\$384.23
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$541.82	\$0.00	\$541.82
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:	\$541.82	\$0.00	\$541.82



**Design Number 1** 

**Printed Date: 3/11/2021** 

Dist: CSA

WR No. 925097

	Mate	erial Numbe	r Description	Unit Price	Total Cost	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	\$13.72	\$109.76	N
				Total	\$138.44	



Distribution Engineering HDUG Pri Conduit Material

**Printed Date:** 3/11/2021

District: CSA

WR No. 925098

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Full PSC Filing 10/2010

WR Description: HDUG 1250 sq ft PRIMARY CONDUIT

MATERIAL: \$8,360.08 \$0.00 \$8,360.08 OVERHEAD: \$1,156.20 \$0.00 \$1,156.20 \$9,516.28 \$0.00 \$9,516.28  LABOR HOURS: 0 0 0 0 LABOR COST: \$0.05 \$0.00 \$0.05 OVERHEAD: \$0.07 \$0.00 \$0.07  \$0.12 \$0.00 \$0.00 CONTRACTOR: \$0.00 \$0.00 \$0.00 SUBTOTAL: \$9,516.40 \$0.00 \$0.00 OVERHEAD: \$0.00 \$0.00 \$0.00 SUBTO TAL: \$0.00 \$0.00 \$0.00  LABOR HOURS: 0 0 0 0 LABOR HOURS: 0 0 0 LABOR COST: \$0.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  VERHEAD: \$0.00 \$0.00 \$0.00  VERHEAD: \$0.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00 SO.00  VEHICLE: \$0.00 \$0.00 \$0.00 SO.00 SO.
\$9,516.28 \$0.00 \$9,516.28  LABOR HOURS: 0 0 0 0  LABOR COST: \$0.05 \$0.00 \$0.05  OVERHEAD: \$0.07 \$0.00 \$0.07  \$0.12 \$0.00 \$0.00  CONTRACTOR: \$0.00 \$0.00 \$0.00  SUBTOTAL: \$9,516.40 \$0.00 \$0.00  EMBOR HOURS: 0 0 0 \$0.00  LABOR HOURS: 0 0 0 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  SO.00 \$0.00  SO.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  SO.00 \$0.00 \$0.00  SO.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  SO.00 \$0.00
LABOR HOURS: 0 0 0 0 0 0 1 0 0 1 1 1 1 1 1 1 1 1 1
LABOR COST: \$0.05 \$0.00 \$0.07  \$0.12 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  CONTRACTOR: \$0.00 \$0.00 \$0.00  SUBTOTAL: \$9,516.40 \$0.00 \$0.00  VERHEAD: \$0.00 \$0.00 \$0.00  REMOVAL:  MATERIAL: \$0.00 \$0.00 \$0.00  S0.00 \$0.00  LABOR HOURS: \$0.00 \$0.00 \$0.00  LABOR COST: \$0.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  S0.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00  VE
OVERHEAD: \$0.07 \$0.00 \$0.07  \$0.12 \$0.00 \$0.12  VEHICLE: \$0.00 \$0.00 \$0.00  CONTRACTOR: \$0.00 \$0.00 \$0.00  ADDITIONAL ITEMS: \$0.00 \$0.00 \$0.00  SUBTOTAL: \$9,516.40 \$0.00 \$0.00  WATERIAL: \$0.00 \$0.00 \$0.00  OVERHEAD: \$0.00 \$0.00 \$0.00  LABOR HOURS: 0 0 0  LABOR COST: \$0.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  SO.00 \$0.00 \$0.00  SO.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  SO.00 \$0.00
\$0.07 \$0.12 \$0.00 \$0.12 \$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:         \$9,516.40         \$0.00         \$9,516.40           REMOVAL:           MATERIAL:         \$0.00         \$0.00         \$0.00           OVERHEAD:         \$0.00         \$0.00         \$0.00           \$0.00         \$0.00         \$0.00         \$0.00           LABOR HOURS:         0         0         0         0           LABOR COST:         \$0.00         \$0.00         \$0.00         \$0.00           OVERHEAD:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           VEHICLE:         \$0.00         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00         \$0.00           TRANSFER:
CONTRACTOR: \$0.00 \$0.00 \$0.00 \$0.00  ADDITIONAL ITEMS: \$0.00 \$0.00 \$0.00  SUBTOTAL: \$9,516.40 \$0.00 \$9,516.40  REMOVAL:  MATERIAL: \$0.00 \$0.00 \$0.00  OVERHEAD: \$0.00 \$0.00 \$0.00  LABOR HOURS: 0 0 0 0  LABOR COST: \$0.00 \$0.00 \$0.00  OVERHEAD: \$0.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  SO.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  SO.00
ADDITIONAL ITEMS: \$0.00 \$0.00 \$0.00  SUBTOTAL: \$9,516.40 \$0.00 \$9,516.40  REMOVAL:  MATERIAL: \$0.00 \$0.00 \$0.00  OVERHEAD: \$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  VEHICLE: \$0.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  ADDITIONAL ITEMS: \$0.00 \$0.00  SUBTOTAL: \$0.00 \$0.00  TRANSFER:
SUBTOTAL:       \$9,516.40       \$0.00       \$9,516.40         REMOVAL:         MATERIAL:       \$0.00       \$0.00       \$0.00         OVERHEAD:       \$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       \$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:
REMOVAL:         MATERIAL:       \$0.00       \$0.00       \$0.00         OVERHEAD:       \$0.00       \$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       \$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
MATERIAL:       \$0.00       \$0.00       \$0.00         OVERHEAD:       \$0.00       \$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       \$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
OVERHEAD: \$0.00 \$0.00 \$0.00  LABOR HOURS: 0 0 0 0  LABOR COST: \$0.00 \$0.00 \$0.00  OVERHEAD: \$0.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  CONTRACTOR: \$0.00 \$0.00  ADDITIONAL ITEMS: \$0.00 \$0.00  SUBTOTAL: \$0.00 \$0.00  TRANSFER:
\$0.00 \$0.00 \$0.00  LABOR HOURS: 0 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  SUBTOTAL: \$0.00 \$0.00  TRANSFER:
LABOR HOURS: 0 0 0 0  LABOR COST: \$0.00 \$0.00 \$0.00  OVERHEAD: \$0.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  CONTRACTOR: \$0.00 \$0.00  ADDITIONAL ITEMS: \$0.00 \$0.00  SUBTOTAL: \$0.00 \$0.00  TRANSFER:
LABOR COST: \$0.00 \$0.00 \$0.00 \$0.00 OVERHEAD: \$0.00 \$0
LABOR COST:       \$0.00       \$0.00       \$0.00         OVERHEAD:       \$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
\$0.00 \$0.00 \$0.00  VEHICLE: \$0.00 \$0.00 \$0.00  CONTRACTOR: \$0.00 \$0.00  ADDITIONAL ITEMS: \$0.00 \$0.00  SUBTOTAL: \$0.00 \$0.00  TRANSFER:
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
CONTRACTOR: \$0.00 \$0.00 \$0.00 \$0.00 ADDITIONAL ITEMS: \$0.00 \$0.00 \$0.00 \$0.00  SUBTOTAL: \$0.00 \$0.00 \$0.00 \$0.00  TRANSFER:
CONTRACTOR:         \$0.00         \$0.00         \$0.00           ADDITIONAL ITEMS:         \$0.00         \$0.00         \$0.00           SUBTOTAL:         \$0.00         \$0.00         \$0.00
ADDITIONAL ITEMS: \$0.00 \$0.00 \$0.00  SUBTOTAL: \$0.00 \$0.00 \$0.00  TRANSFER:
SUBTOTAL:         \$0.00         \$0.00         \$0.00
LABOR HOURS: 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
TOTALS: \$9,516.40 \$0.00 \$9,516.40



**Design Number 1** 

**Printed Date: 3/11/2021** Dist: CSA

WR No. 925098

Mate	erial Numbe	r Description	Unit Price	<b>Total Cost</b>	Asset?
INSTALL					
12	2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$6.22	\$74.64	N
20	2004389	CONDUIT, GALVANIZED 2 IN 10 FT WITH COUP	\$6.78	\$135.60	Υ
5935	2004488	CONDUIT, PVC 2 IN 20 FT BELL END	\$1.03	\$6,113.05	Υ
108	2004507	COUPLING, PVC 2 IN SCH 40 TEMS 13.01	\$0.60	\$64.80	N
46	2004395	ELBOW, 2" 90 DEGREE ,GALVANIZED, 24" MIN	\$34.29	\$1,577.34	N
8	2004394	ELBOW, GALV 2 INCH 45 DEG THD 15" RADIUS	\$26.25	\$210.00	N
6155	2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$184.65	N
			Total	\$8,360.08	



Dist Svcs **HDUG PRIMARY**  **Printed Date:** 3/11/2021

District: CSA

WR No. 925100

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Full PSC Filing 10/2010

WR Description: HDUG 1250 sq ft PRIMARY CABLE

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$15,227.81	\$0.00	\$15,227.81
OVERHEAD:	\$2,106.01	\$0.00	\$2,106.01
	\$17,333.82	\$0.00	\$17,333.82
LABOR HOURS:	115.14	0	115.14
LABOR COST:	\$5,068.62	\$0.00	\$5,068.62
OVERHEAD:	\$6,715.92	\$0.00	\$6,715.92
	\$11,784.54	\$0.00	\$11,784.54
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$29,118.36	\$0.00	\$29,118.36
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:	\$29,118.36	\$0.00	\$29,118.36



**Design Number 1** 

**Printed Date: 3/11/2021** Dist: CSA

WR No. 925100

Revised:

Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
6304	2004343	CABLE, ALUMINUM, 15KV, 1/C, 1/0 AWG SOLI	\$2.08	\$13,112.53	Υ
2	2004514	CAP, CONDUIT 2"	\$12.21	\$24.42	N
2	2004453	CAP, END CABLE 600 V CABLE RANGE .940 -	\$1.96	\$3.92	N
2	2003752	CLAMP, CONDUIT GROUND 1-1/4 IN - 2 IN CO	\$7.92	\$15.84	N
0	2004488	CONDUIT, PVC 2 IN 20 FT BELL END	\$1.03	\$0.00	Υ
2	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$1.32	N
44	2077931	CONNECTOR, VICE CU #2 STR	\$2.38	\$104.72	N
40	2004642	KIT, SEALING, CABLE ACCESSORY, 1/0 - 4/0	\$9.46	\$378.40	N
8	2004403	STRAP, GALV 2 IN 2 HOLE	\$0.28	\$2.24	N
40	2004883	TERMINATOR, LOADBREAK 200 AMP, 1/0 SOL	\$37.76	\$1,510.40	Υ
2	2004633	TERMINATOR, POTHEAD 15KV OUTDOOR 1/0 JCN	\$35.75	\$71.50	Υ
4	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$2.52	N
			Total	\$15.227.81	



Dist Svcs HDUG SECONDARY **Printed Date:** 3/11/2021

District: CSA

WR No. 925103

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Full PSC Filing 10/2010

WR Description: HDUG 1250 sq ft SECONDARY CABLE

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$8,598.95	\$0.00	\$8,598.95
OVERHEAD:	\$1,189.23	\$0.00	\$1,189.23
	\$9,788.18	\$0.00	\$9,788.18
LABOR HOURS:	146.42	0	146.42
LABOR COST:	\$6,445.28	\$0.00	\$6,445.28
OVERHEAD:	\$8,540.02	\$0.00	\$8,540.02
	\$14,985.30	\$0.00	\$14,985.30
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$24,773.48	\$0.00	\$24,773.48
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:	\$24,773.48	\$0.00	\$24,773.48



**Design Number 1** 

**Printed Date: 3/11/2021** Dist: CSA

WR No. 925103

Revised:

Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
2029	2004354	CABLE, SWEETBRIAR, AL, UG, 600V, 2/C, 4/0 AW	\$1.39	\$2,820.59	Υ
45	2005022	CONNECTOR, 600V URD, 6 POSITION, CONDUCT	\$14.92	\$671.40	N
12	2005025	CONNECTOR, 600V, URD, 8 POSITION, CONDUC	\$30.35	\$364.20	N
22	2000241	DECAL, WARNING, NOTICE, CLEARANCE, 10" X 7"	\$3.56	\$78.32	N
22	2004714	HANDHOLE, ABOVE GRADE, LARGE DOME	\$186.22	\$4,096.84	N
22	2005212	MARKER, CURB LEXAN .040 THICK, ROUND 2.5	\$2.83	\$62.26	N
22	2007395	PADLOCK, RED BRASS BODY 1/4" BRASS SHACK	\$22.97	\$505.34	N
			Total	\$8,598.95	



Dist Svcs

HDUG SEC CONDUIT

**Printed Date:** 3/11/2021

District: CSA

WR No. 925104

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Full PSC Filing 10/2010

WR Description: HDUG 1250 sq ft SECONDARY CONDUIT

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$5,153.37	\$0.00	\$5,153.37
OVERHEAD:	\$712.71	\$0.00	\$712.71
	\$5,866.08	\$0.00	\$5,866.08
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:	\$5,866.16	\$0.00	\$5,866.16
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:	\$5,866.16	\$0.00	\$5,866.16



**Design Number 1** 

**Printed Date: 3/11/2021** Dist: CSA

WR No. 925104

Revised:

Mate	erial Numbe	Pr Description	Unit Price	Total Cost	Asset?
INSTALL					
1	2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$6.22	\$6.22	N
6	2007228	CEMENT, PVC GRAY MEDIUM DRY QUART W/DAUB	\$7.27	\$43.62	N
291	2004517	CONDUIT, PVC P & C 3 IN 20 FT	\$1.70	\$494.70	Υ
1410	2004529	CONDUIT, PVC, 4" X 20', DB-60-TC-6	\$2.78	\$3,919.80	Υ
16	2004521	COUPLING, PVC 3 IN SCH 40 TEMS 13.01	\$2.95	\$47.20	N
72	2004535	COUPLING, PVC 4 IN SCH 40 TEMS 13.01	\$4.28	\$308.16	N
8	2004524	ELBOW, PVC 3 IN 90 DEG 13 IN RAD SCH 40	\$4.52	\$36.16	N
36	2004538	ELBOW, PVC 4", 90 DEG., 16" RADIUS, SCHE	\$6.68	\$240.48	N
1901	2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$57.03	N
			Total	\$5.153.37	



Dist Svcs

HDUG SERVICE CABLE

**Printed Date:** 3/11/2021

District: CSA

WR No. 925106

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Full PSC Filing 10/2010

WR Description: HDUG 1250 sq ft SERVICE CABLE

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$16,257.47	\$0.00	\$16,257.47
OVERHEAD:	\$2,248.40	\$0.00	\$2,248.40
	\$18,505.87	\$0.00	\$18,505.87
LABOR HOURS:	1.53	0	1.53
LABOR COST:	\$67.48	\$0.00	\$67.48
OVERHEAD:	\$89.41	\$0.00	\$89.41
	\$156.89	\$0.00	\$156.89
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$18,662.76	\$0.00	\$18,662.76
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:	\$18,662.76	\$0.00	\$18,662.76



**Design Number 1** 

**Printed Date: 3/11/2021** Dist: CSA

WR No. 925106

Revised:

Ma	terial Numbe	r Description	Unit Price	Total Cost	t Asset?
INSTALL					
16097	2004351	CABLE, CONVERSE, AL, UG, 600V, 2/C, 2/0,	\$1.01	\$16,257.47	Υ
			Total	\$16,257.47	



Dist Svcs HDUG SET METERS **Printed Date:** 3/11/2021

District: CSA

WR No. 925108

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Full PSC Filing 10/2010 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:	\$1,552.59	\$0.00	\$1,552.59
OVERHEAD:	\$2,057.18	\$0.00	\$2,057.18
	\$3,609.77	\$0.00	\$3,609.77
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$3,609.77	\$0.00	\$3,609.77
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:	\$3,609.77	\$0.00	\$3,609.77



Dist Svcs

HDUG SERVICE CONDUIT

**Printed Date:** 3/11/2021

District: CSA

WR No. 925110

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Full PSC Filing 10/2010

WR Description: HDUG 1250 sq ft SERVICE CONDUIT

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$18,669.34	\$0.00	\$18,669.34
OVERHEAD:	\$2,581.97	\$0.00	\$2,581.97
	\$21,251.31	\$0.00	\$21,251.31
LABOR HOURS:	0	0	0
LABOR COST:	\$0.13	\$0.00	\$0.13
OVERHEAD:	\$0.19	\$0.00	\$0.19
	\$0.32	\$0.00	\$0.32
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$21,251.63	\$0.00	\$21,251.63
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:	\$21,251.63	\$0.00	\$21,251.63

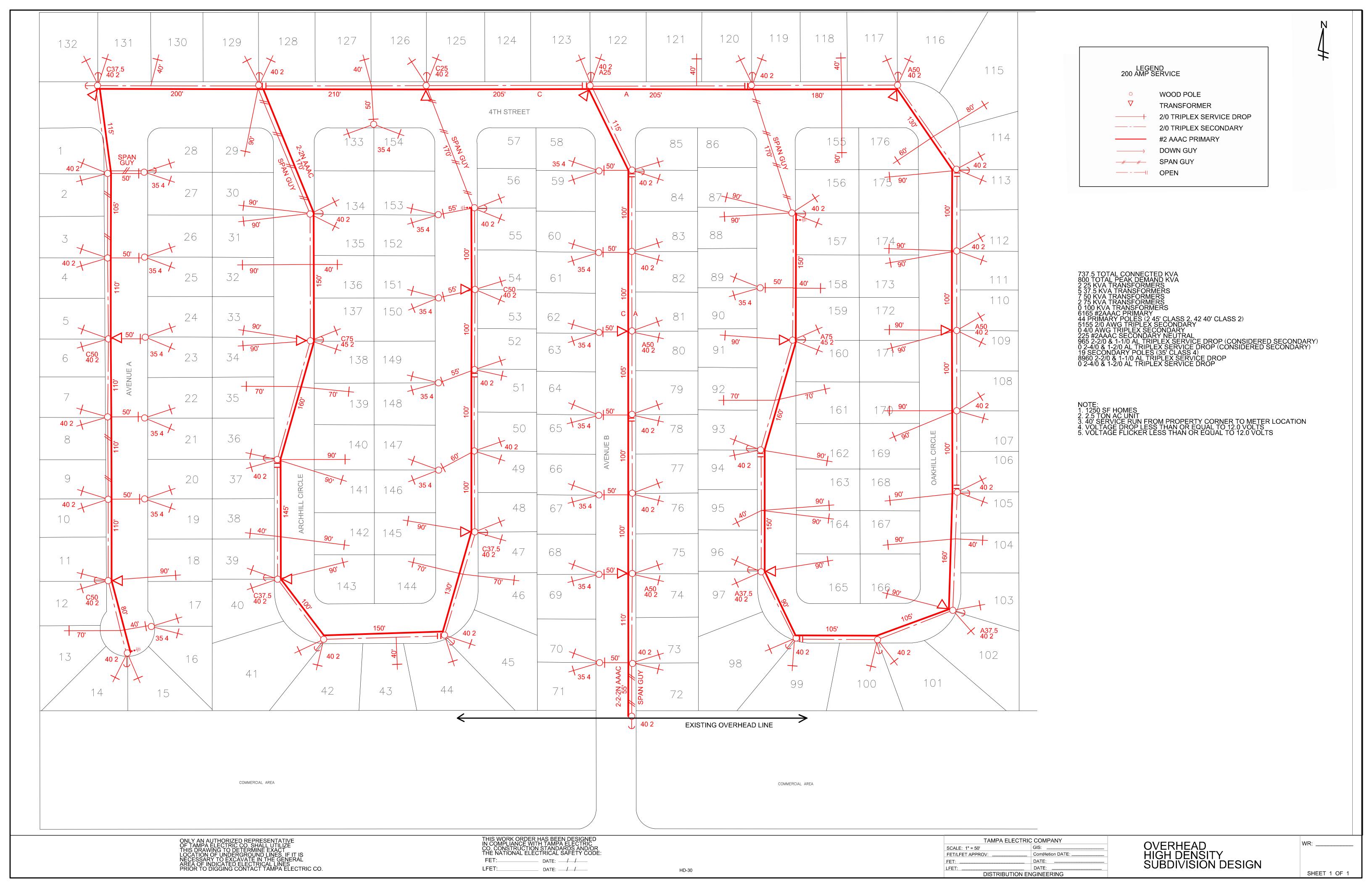


**Design Number 1** 

**Printed Date: 3/11/2021** 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	\$0.40	\$70.40	N
31	2007227	CEMENT, PVC CLEAR FAST DRY QUART W/DAUBE	\$6.22	\$192.82	N
15330	2004488	CONDUIT, PVC 2 IN 20 FT BELL END	\$1.03	\$15,789.90	Υ
176	2004491	CONDUIT, PVC 2 IN 250 FT ROLL FLEXIBLE	\$1.13	\$198.88	N
176	2004401	CONDUIT, SERVICE RISER, PVC, 2"	\$4.92	\$865.92	N
896	2004507	COUPLING, PVC 2 IN SCH 40 TEMS 13.01	\$0.60	\$537.60	N
448	2004511	ELBOW, CONDUIT PVC 2 IN SCH 40 90 DEG 9-	\$1.26	\$564.48	N
176	2004396	NUT, LOCK GALV 2 IN	\$0.54	\$95.04	N
11810	2007414	TAPE, PULLING, POLYSTER, RATED AT 1250#,	\$0.03	\$354.30	N
			Total	\$18.669.34	



#### **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
1 2	Transformers 925111	Install & Ground Transformers	31,143.07	27,751.80	12,366.93	11,060.26	6,439.97	4,103.55	516.74	60%	40%	\$1,306.67	3,391.27	43,510.00
3	Primary	notali di Gredita Manorellia	01,110.01	21,101.00	12,000.00	. 1,000.20	0,100.07	1,100.00	0.0	0070	1070	ψ1,000.01	0,001.21	10,010.00
5 6 7	925112 Poles	Install Primary Line includes Grounding Primary Takeoffs	2,544.16	2,267.12	6,190.06	5,536.03	3,223.42	2,053.96	258.65	60%	40%	\$654.03	277.04	8,734.22
8 9	925113	Install Poles and Guy Stubs Includes Haul Poles Out	22,510.66	20,059.40	36,177.05	32,354.65	18,838.88	12,004.13	1,511.63	60%	40%	\$3,822.41	2,451.26	58,687.71
10 11 12	Secondary 925114	Install Secondary Cable	12,719.79	11,334.69	18,719.51	16,741.64	9,748.02	6,211.44	782.18	60%	40%	\$1,977.87	1,385.10	31,439.30
13 14	Services 927142	Install Service Cable	10,342.22	9,216.02	12,847.44	11,490.00	6,690.19	4,262.99	536.82	60%	40%	\$1,357.44	1,126.20	23,189.66
15 16	927163	Install Meters	<u>17,751.95</u> 28,094.16	\$ <u>15,818.88</u> 25,034.90	3,314.51 16,161.95	2,666.48 14,156.48	1,552.59 8,242.78	989.31 5,252.30	124.58 661.40	60%	40%	2,005.47	1,933.07 3,059.26	21,066.46 44,256.11
17 18	Engineering	Design/Inspection/Coordination		-	10,785.62	·	-	-	-	100%	0%		-	10,785.62
19 20 21	Tree Trim		-	-	-	-	-	-	-			-	-	-
22	Totals (Sum of lines 2 Cost "Per Lot" (Line 3	2, 5, 8, 11, 16, 18, and 20) 4/ 176 lots)	97,011.84 551.20	86,447.91	100,401.14 570.46	79,849.06	46,493.07	29,625.38	3,730.60			9,766.45	10,563.93	197,412.98 1,121.66

Adjustment Factors			
TEC Labor Overhead Factor (excludes engineering)	TLF =	1.062	
Contractor Labor Overhead Factor	CLF =	0.2006	
Current year material handling charge rate	MHR =	0.1222	

### 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 2018

Work Request #1  Assemblies ===>  Total Quantities =>	925111 25 KVA PKT11W3F 2	- Transformers (enter the 37.5 KVA PKT11W4F 5	sse 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 WIO2F 1	Additional WIO2A 7	1st span WIO1F 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 ==>		- Poles and Guys 2ø Deadend STP402_DE_40C2	2 ø tangent STP103_TAN_40C2 6	2 ø Corner STP302_RC_40C2 1	1ø Deadend STP401_DE_40C2 4	lø angle <20 STP101_ANG_40C2 5	1ø angle <20 STP101_ANG_45C2 2	1ø Tangent STP101_TAN_40C2 13	1ø angle >20 STP301_RC_40C2 11	3 ø STP104E4B 1	Down guys PKG12W2H 29	Pole hardware PKG31W1H 4	Guy wire GUYSTR3/8 340
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 SEW1DEN 2	Eyenut SEG1DEN 2	DE+Bolt PKS11W 8	CABLEOPEN 14	Pole hardware PKG31W1H 8	Guy wire GUYSTR3/8 565
More of Work Reques  Assemblies ===>  Total Quantities ==>		- Secondary continued - 35' Class 4 STS11C 19	From Secondary&Neutral we Deadend PKS21G 35	orksheet and SlackSeconda Clamp CLMIDSPAN 3	ary (service cable) & Secon 2/0 triplex CA2/0TPX 965	dary Poles worksheet 4/0 triplex CA4/0TPX 0	0 SVLABOR 19	Down guys PKG11W1H 1	Pole hardware PKG31W1H 2	Guy wire GUYSTR3/8 50			
Work Request #5	927142 2/0 triplex	- Services 4/0 triplex CA4/0TPY	Clamp CLMIDSPAN	SVI ABOR									

Work Request #5	927142	- Services	Classia	
	2/0 triplex	4/0 triplex	Clamp	
Assemblies	CA2/0TPX	CA4/0TPX	CLMIDSPAN	SVLABOR
Quantities	8960	0	26	0

Work Request #5	927163	- Set Meter
Assemblies Quantities	METERLABOR 176	



**Contact Name:** Tampa Electric

Distribution Services HDOH TRANSFORMER **Printed Date:** 3/11/2021

District: CSA

WR No. 925111

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Full PSC Filing 10/2010

WR Description: HDOH 1250 sq ft TRANSFORMERS

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$27,751.80	\$0.00	\$27,751.80
OVERHEAD:	\$3,838.05	\$0.00	\$3,838.05
	\$31,589.85	\$0.00	\$31,589.85
LABOR HOURS:	146.26	0	146.26
LABOR COST:	\$6,439.97	\$0.00	\$6,439.97
OVERHEAD:	\$8,532.90	\$0.00	\$8,532.90
	\$14,972.87	\$0.00	\$14,972.87
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$46,562.72	\$0.00	\$46,562.72
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:	\$46,562.72	\$0.00	\$46,562.72



**Design Number 1** 

**Printed Date: 3/11/2021** Dist: CSA

WR No. 925111

Mate	erial Numbe	er Description	Unit Price	Total Cost	Asset?	
INSTALL						
16	2003646	ARRESTER, DISTRIBUTION, 10KV, 8.4KV MCOV	\$39.68	\$634.88	Υ	
14	2077754	BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.04	\$14.56	Ν	
32	2077755	BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.16	\$37.12	Ν	
16	2003690	BRACKET, CUTOUT, ARRESTER & POTHEAD DWG	\$7.22	\$115.52	N	
16	2004660	BRACKET,"L" 5-5/8"IN LENGTH FOR MTG CUTO	\$10.41	\$166.56	N	
208	2004197	CABLE, HANDCOIL, COPPER, 600V, 2/0 AWG,	\$2.32	\$482.56	N	
24	2004199	CABLE, HANDCOIL, COPPER, 600V, 4/0 AWG,	\$3.75	\$90.00	N	
16	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$28.80	N	
16	2077911	CLAMP, HOT LINE CU TO CU #6 SOL- 2 STR T	\$5.73	\$91.68	N	
32	2078000	CLAMP,GND,TRANSFORMER,#10 SOL-#1 STR CU	\$2.31	\$73.92	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	\$25.78	\$103.12	N	
42	2077839	CONNECTOR, COMPRESSION H-BLOCK ACSR 1/0-	\$0.53	\$22.26	N	
16	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$10.56	N	
2	2077845	CONNECTOR, COMPRESSION H-BLOCK ACSR 4/0	\$0.68	\$1.36	N	
64	2077930	CONNECTOR, VICE CU #4 STR	\$1.91	\$122.24	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	\$0.39	\$9.36	N	
16	2003846	CUTOUT, 15KV, 100A FUSE HLDR, 300A UNVRS	\$70.74	\$1,131.84	Υ	
7	2077806	FUSE LINK, 10A UNVRSL 100A CUTOUT 23" OA	\$3.91	\$27.37	N	
2	2077807	FUSE LINK, 15A UNVRSL 100A CUTOUT 23" OA	\$3.93	\$7.86	N	
2	2077804	FUSE LINK, 5A UNVRSL 100A CUTOUT 23" OAL	\$3.90	\$7.80	N	
5	2077805	FUSE LINK, 7A UNVRSL 100A CUTOUT 23" OAL	\$3.89	\$19.45	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	\$5.35	\$85.60	N	
64	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$878.08	N	
16	2077767	ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16"	\$2.65	\$42.40	N	
16	2077789	SCREW, LAG PILOT POINT 3/8 X 3	\$0.27	\$4.32	N	
16	2077812	SPACER, CABLED SECONDARY	\$6.79	\$108.64	N	
140	2077997	STAPLE, SECURES 1/2" PVC MOULDING TO WOO	\$0.27	\$37.80	N	
2	2001367	TX,OH,25 kVA,7.62/13.2Y,120/240,FR3	\$1,046.46	\$2,092.92	Υ	
5	2001368	TX,OH,37.5 kVA,7.62/13.2Y,120/240,FR3	\$1,253.83	\$6,269.15	Υ	
7	2001369	TX,OH,50 kVA,7.62/13.2Y,120/240,FR3	\$1,463.60	\$10,245.20	Υ	
2	2001370	TX,OH,75 kVA,7.62/13.2Y,120/240,FR3	\$1,924.56	\$3,849.12	Υ	
80	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$19.20	N	
48	2078014	WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.11	\$5.28	N	
50	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$31.75	N	
160	2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.38	\$60.80	N	
				\$27,751.80		



**Contact Name:** Tampa Electric

Distribution Services **HDOH PRIMARY** 

**Printed Date: 3/11/2021** 

District: CSA

WR No. 925112

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Full PSC Filing 10/2010 WR Description: HDOH 1250 sq ft PRIMARY

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	<b>\$</b> 2,267.12	<b>\$</b> 0.00	\$2,267.12
OVERHEAD:	\$313.55	\$0.00	\$313.55
	\$2,580.67	\$0.00	\$2,580.67
LABOR HOURS:	73.22	0	73.22
LABOR COST:	\$3,223.42	\$0.00	\$3,223.42
OVERHEAD:	\$4,271.04	\$0.00	\$4,271.04
	\$7,494.46	\$0.00	\$7,494.46
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$10,075.13	\$0.00	\$10,075.13
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:	\$10,075.13	\$0.00	\$10,075.13



# Work Request Material Summary \*\*\*Includes Truck Stock\*\*\*

**Design Number 1** 

**Printed Date: 3/11/2021** Dist: CSA

WR No. 925112

Page 1 of 1

			raye		
Mater	rial Numbe	r Description	Unit Price	<b>Total Cost</b>	Asset?
INSTALL					
3	2003646	ARRESTER, DISTRIBUTION, 10KV, 8.4KV MCOV	\$39.68	\$119.04	Υ
2	2077738	BOLT, 5/8" X 8" EYE GALV RTS 12,400 LBS.	\$2.99	\$5.98	N
4	2077739	BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.12	\$12.48	N
2	2077744	BOLT, MACHINE 1/2 INCH X 7 INCH	\$0.92	\$1.84	N
4	2077754	BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.04	\$4.16	N
1	2077756	BOLT,MACHINE,SQ HEAD,5/8"X14",ONE SQ NUT	\$1.29	\$1.29	N
3	2003681	BRACKET, "L", LIGHTNING ARRESTER 10 KV	\$7.95	\$23.85	N
2	2004660	BRACKET,"L" 5-5/8"IN LENGTH FOR MTG CUTO	\$10.41	\$20.82	N
8	2077818	CLAMP, DEADEND ACSR OR AAC #2-4/0OR .30-	\$9.12	\$72.96	N
3	2077906	CLAMP, GROUND ROD, F/U/W 1/2"ROD	\$1.80	\$5.40	N
9	2077911	CLAMP, HOT LINE CU TO CU #6 SOL- 2 STR T	\$5.73	\$51.57	N
3	2077813	CLAMP, SLACK SPAN DEADEND #2 ACSR - 2/0	\$10.09	\$30.27	N
6473	2004331	CONDUCTOR, BARE OVERHEAD, 2 AWG, AAAC, 7	\$0.15	\$971.00	Υ
120	2078012	CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$100.80	N
11	2077838	CONNECTOR, COMPRESSION H-BLOCK ACSR #2-1	\$0.41	\$4.51	N
7	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$4.62	N
6	2077930	CONNECTOR, VICE CU #4 STR	\$1.91	\$11.46	N
9	2077939	COUPLER, GROUND ROD, F/U/W 1/2"ROD	\$4.78	\$43.02	N
1	2002955	CROSSARM, 5' DEADEND COMPOSITE	\$116.70	\$116.70	N
2	2003846	CUTOUT, 15KV, 100A FUSE HLDR, 300A UNVRS	\$70.74	\$141.48	Υ
2	2077794	FUSE LINK, 103A UNVRSL 100A CUTOUT 23" O	\$24.29	\$48.58	N
1	2077954	INSULATOR, PIN TYPE, 10KV, ANSI CLASS 55	\$3.75	\$3.75	N
2	2003882	INSULATOR, POLYMER VERTICAL LINE POST 25	\$50.80	\$101.60	N
4	2077959	INSULATOR, SUSPENSION, POLYMER, 25KV, AP	\$11.86	\$47.44	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	\$1.51	\$7.55	N
1	2077971	PIN, CROSSARM 5/8" X 6-1/2" BOLT, 1" LEA	\$5.16	\$5.16	N
12	2077980	ROD,GROUND,CU BONDED,1/2"X10',THREADLESS	\$13.72	\$164.64	N
3	2077789	SCREW, LAG PILOT POINT 3/8 X 3	\$0.27	\$0.81	N
30	2077997	STAPLE, SECURES 1/2" PVC MOULDING TO WOO	\$0.27	\$8.10	N
2	2077828	STIRRUP, AL BODY & CU BAIL 1/0-397	\$17.19	\$34.38	N
7	2077826	STIRRUP, AL BODY & CU BAIL 2-4/0	\$10.18	\$71.26	N
2	2004029	STUD-LINEPOST INSULATOR 3/4"X5/8 7"BOLT	\$4.09	\$8.18	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	\$0.23	\$0.92	N
13	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$3.12	N
2	2008135	WASHER, LOCK T316SS 1/2 IN	\$0.18	\$0.36	N
3	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$1.89	N
15	2078011	WIRE, COPPER, TIE, #6 SOLID SOFT DRAWN	\$0.38	\$5.70	N
			Total	\$2,267.12	



**Contact Name:** Tampa Electric

Distribution Services **HDOH POLES** 

**Printed Date: 3/11/2021** 

District: CSA

WR No. 925113

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Full PSC Filing 10/2010 WR Description: HDOH 1250 sq ft POLES

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$20,059.40	\$0.00	\$20,059.40
OVERHEAD:	\$2,774.22	\$0.00	\$2,774.22
	\$22,833.62	\$0.00	\$22,833.62
LABOR HOURS:	427.97	0	427.97
LABOR COST:	\$18,838.88	\$0.00	\$18,838.88
OVERHEAD:	\$24,961.48	\$0.00	\$24,961.48
	\$43,800.36	\$0.00	\$43,800.36
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$66,633.98	\$0.00	\$66,633.98
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:	\$66,633.98	\$0.00	\$66,633.98



# Work Request Material Summary \*\*\*Includes Truck Stock\*\*\*

**Design Number 1** 

**Printed Date: 3/11/2021** Dist: CSA

WR No. 925113

Page 1 of 1

				1 01 1	
Materi	al Numbe	er Description	Unit Price	Total Cost	Asset?
INSTALL					
29	2003632	ANCHOR,SCRW GALV 10" WING 1-1/4" ROD 8"	\$48.15	\$1,396.35	N
20	2077739	BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.12	\$62.40	N
62	2077764	BOLT, MACHINE 3/4" X 12", GALV	\$2.41	\$149.42	N
40	2077754	BOLT, MACHINE 5/8" X 10", GALV. FULL	\$1.04	\$41.60	N
19	2077753	BOLT, MACHINE 5/8" X 8", GALV.	\$1.05	\$19.95	N
1 :	2077780	BOLT, SPOOL, 5/8" X 10", GALV. SINGLE UP	\$4.16	\$4.16	N
45	2077755	BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.16	\$52.20	N
8	2003686	BRACKET, FIBERGLASS STANDOFF VERTICAL24"	\$48.88	\$391.04	N
7	2077818	CLAMP, DEADEND ACSR OR AAC #2-4/0OR .30-	\$9.12	\$63.84	N
13	2003508	CLAMP, SUSPENSION ALANGLE RANGE .50 TO	\$13.95	\$181.35	N
19	2077924	CLEVIS, STEEL LESS INSULATOR 5/8 IN PIN	\$9.38	\$178.22	N
105	2078012	CONDUCTOR, COPPERCLAD, 3 STR. #9, DSA 30	\$0.84	\$88.20	N
25	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$16.50	N
21	2077930	CONNECTOR, VICE CU #4 STR	\$1.91	\$40.11	N
2	2077765	DOUBLE-ARMING, GALVANIZED 5/8 "X 12"	\$2.35	\$4.70	N
29	2003636	EXTENSION ROD, ANCHOR 1-1/4 X 72 6 FT	\$50.54	\$1,465.66	N
27	2077901	FIBERGLASS RIDGE-PIN	\$28.87	\$779.49	N
120	2077949	GRIP,GUY,FORMED WIRE DEADEND,3/8"EHS	\$2.27	\$272.40	N
22	2077862	GUARD, LINE #2 ACSR & AAAC STR 6/1, 7	\$1.95	\$42.90	N
3	2077863	GUARD, LINE 2/0 ACSR & AAAC STR 6/1, 7	\$2.68	\$8.04	N
62	2077951	HOOK, GUY	\$2.73	\$169.26	N
35	2077954	INSULATOR, PIN TYPE, 10KV, ANSI CLASS 55	\$3.75	\$131.25	N
1 :	2077952	INSULATOR, SPOOL, ANSI CLASS 53-3, TRANS	\$1.21	\$1.21	N
33	2077961	INSULATOR, STRAIN FIBERGLASS 36 IN 15,00	\$14.73	\$486.09	N
19	2077959	INSULATOR, SUSPENSION, POLYMER, 25KV, AP	\$11.86	\$225.34	N
29	2077979	MARKER, GUY WIRE PLASTIC 8' IN LENGTH CO	\$4.43	\$128.47	N
42	2002857	POLE, WOOD, 40FT CLASS 2, CCA TREATED	\$272.68	\$11,452.56	Υ
2	2002858	POLE, WOOD, 45 FT CLASS 2, CCA TREATED.	\$323.31	\$646.62	Υ
23	2077767	ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16"	\$2.65	\$60.95	N
62	2077790	SCREW, LAG 1/2" X 4", GALV., TWIST DRIVE	\$0.47	\$29.14	N
48	2077812	SPACER, CABLED SECONDARY	\$6.79	\$325.92	N
7	2003612	TIE, PREFORMED SIDE TIE #2 ACSR OR #2 A	\$2.64	\$18.48	N
28	2003613	TIE, TOP, FORMED WIRE #2 ACSR OR #2 AAAC	\$2.87	\$80.36	N
62	2078002	WASHER, CURVED, MALLEABLE, 3" X 3"	\$1.22	\$75.64	N
156	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$37.44	N
146	2078014	WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.11	\$16.06	N
2776	2005879	WIRE,GUY,EHS STEEL,GALV,3/8",15.4K RBS	\$0.33	\$916.08	N
			Total	\$20,059.40	



Dist Eng HDOH SECONDARY

**Printed Date: 3/11/2021** 

District: CSA

WR No. 925114

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Full PSC Filing 10/2010

WR Description: HDOH 1250 sq ft SECONDARY

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$11,334.69	\$0.00	\$11,334.69
OVERHEAD:	\$1,567.60	\$0.00	\$1,567.60
	\$12,902.29	\$0.00	\$12,902.29
LABOR HOURS:	221.46	0	221.46
LABOR COST:	\$9,748.02	\$0.00	\$9,748.02
OVERHEAD:	\$12,916.13	\$0.00	\$12,916.13
	\$22,664.15	\$0.00	\$22,664.15
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$35,566.44	\$0.00	\$35,566.44
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:	\$35,566.44	\$0.00	\$35,566.44



# Work Request Material Summary \*\*\*Includes Truck Stock\*\*\*

**Design Number 1** 

**Printed Date: 3/11/2021** Dist: CSA

WR No. 925114

Page 1 of 1

Mate	erial Number	Description	Unit Price	Total Cost	Asset?
INSTALL					
1	2003632	ANCHOR,SCRW GALV 10" WING 1-1/4" ROD 8"	\$48.15	\$48.15	N
10	2077739	BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED	\$3.12	\$31.20	N
11	2077764	BOLT, MACHINE 3/4" X 12", GALV	\$2.41	\$26.51	N
1	2077755	BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT	\$1.16	\$1.16	N
5413	2004338	CABLE, OVERHEAD SECONDARY, TRIPLEX, 2/0	\$1.15	\$6,224.72	Υ
1013	2004364	CABLE, SERVICE DROP AL 2-2/0 & 1-1/0 NEU	\$0.96	\$972.77	Υ
43	2077818	CLAMP, DEADEND ACSR OR AAC #2-4/0OR .30-	\$9.12	\$392.16	N
3	2003770	CLAMP, MID SPAN ALUMINUM 1/4 IN - 1/2 IN	\$7.09	\$21.27	N
236	2004331	CONDUCTOR, BARE OVERHEAD, 2 AWG, AAAC, 7	\$0.15	\$35.45	Υ
129	2077839	CONNECTOR, COMPRESSION H-BLOCK ACSR 1/0-	\$0.53	\$68.37	N
8	2077837	CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0	\$0.66	\$5.28	N
8	2077931	CONNECTOR, VICE CU #2 STR	\$2.38	\$19.04	N
86	2003516	COVER, SNAP-ON SQUEEZON CONNECTOR D DIE	\$0.39	\$33.54	N
1	2003636	EXTENSION ROD, ANCHOR 1-1/4 X 72 6 FT	\$50.54	\$50.54	N
12	2077949	GRIP,GUY,FORMED WIRE DEADEND,3/8"EHS	\$2.27	\$27.24	N
11	2077951	HOOK, GUY	\$2.73	\$30.03	N
10	2077961	INSULATOR, STRAIN FIBERGLASS 36 IN 15,00	\$14.73	\$147.30	N
1	2077979	MARKER, GUY WIRE PLASTIC 8' IN LENGTH CO	\$4.43	\$4.43	N
37	2077783	NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO	\$1.51	\$55.87	N
19	2002842	POLE, WOOD, 35 FT, CLASS 4, CCA TREATED.	\$141.93	\$2,696.67	Υ
19	2077767	ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16"	\$2.65	\$50.35	N
11	2077790	SCREW, LAG 1/2" X 4", GALV., TWIST DRIVE	\$0.47	\$5.17	N
19	2077812	SPACER, CABLED SECONDARY	\$6.79	\$129.01	N
11	2078002	WASHER, CURVED, MALLEABLE, 3" X 3"	\$1.22	\$13.42	N
50	2078006	WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8"	\$0.24	\$12.00	N
57	2078014	WIRE, ALUMINUM, TIE, #4 BARE ANNEALED	\$0.11	\$6.27	N
16	2004184	WIRE, COPPER, BARE, #4 SOFT DRAWN 7 STR	\$0.63	\$10.08	N
657	2005879	WIRE,GUY,EHS STEEL,GALV,3/8",15.4K RBS	\$0.33	\$216.81	N
			Total	\$11,334.69	



Distribution Services HDOH SERVICE

**Printed Date: 3/11/2021** 

District: CSA

WR No. 927142

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Full PSC Filing 10/2010 WR Description: HDOH 1250 sq ft SERVICE

INSTALLATION:	Capital	Oper./Maint.	Total
MATERIAL:	\$9,216.02	\$0.00	\$9,216.02
OVERHEAD:	\$1,274.57	\$0.00	\$1,274.57
	\$10,490.59	\$0.00	\$10,490.59
LABOR HOURS:	151.98	0	151.98
LABOR COST:	\$6,690.19	\$0.00	\$6,690.19
OVERHEAD:	\$8,864.50	\$0.00	\$8,864.50
	\$15,554.69	\$0.00	\$15,554.69
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$26,045.28	\$0.00	\$26,045.28
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:	\$26,045.28	\$0.00	\$26,045.28



# Work Request Material Summary \*\*\*Includes Truck Stock\*\*\*

**Design Number 1** 

**Printed Date: 3/11/2021** 

Dist: CSA

WR No. 927142

Revised:

Page 1 of 1

Mate	erial Numbei	r Description	Unit Price	Total Cost	Asset?
INSTALL					
9408	2004364	CABLE, SERVICE DROP AL 2-2/0 & 1-1/0 NEU	\$0.96	\$9,031.68	Υ
0	2004366	CABLE, SERVICE DROP AL 2-4/0 & 1-2/0 NEU	\$1.42	\$0.00	Υ
26	2003770	CLAMP, MID SPAN ALUMINUM 1/4 IN - 1/2 IN	\$7.09	\$184.34	N
			Total	\$9.216.02	



Dist Svcs **HDOH METERS**  **Printed Date: 3/11/2021** 

District: CSA

WR No. 927163

Date Sched: 4/1/21 Date Required: 4/1/21

Additional Information: Full PSC Filing 10/2010 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:	\$1,552.59	\$0.00	\$1,552.59
OVERHEAD:	\$2,057.18	\$0.00	\$2,057.18
	\$3,609.77	\$0.00	\$3,609.77
VEHICLE:	\$0.00	\$0.00	\$0.00
CONTRACTOR:	\$0.00	\$0.00	\$0.00
ADDITIONAL ITEMS:	\$0.00	\$0.00	\$0.00
SUBTOTAL:	\$3,609.77	\$0.00	\$3,609.77
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:	\$3,609.77	\$0.00	\$3,609.77

### 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		OH Service
				Handling)		Material Cost
<u>Action</u>	<u>Description</u>	<u>Material</u>		<b>Overhead</b>		Per Foot
install	76' - 1ø - 2/0 AWG Triplex	\$92.14	+	\$11.26	= \$103.40 ÷ 76 =	\$1.36
install	76' - 1ø - 4/0 AWG Triplex	\$140.93	+	\$17.22	= \$158.15 ÷ 76 =	\$2.08

### 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	\$106.81
Labor cost to install 2/0 triplex service cable	\$151.14
Labor cost to install 4/0 triplex service cable	\$151.92

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

			motani	ation oost
OH Description			Fixed	Per Foot
1ø - 2/0 AWG Triplex	\$106.81	+\$151.14=	\$257.95	\$1.36
1ø - 4/0 AWG Triplex	\$106.81	+\$151.92=	\$258.73	\$2.08

OH Service - Poles
This is the cost to haul a service pole to the site and install an overhead service pole.

Pescription
Tr

Action	Description	<u>i otal</u>
install	Accessible 35' wood pole	\$801.36
	Average cost to install a service pole	\$801.36

Inetallation Cost

### **UNDERGROUND SERVICE**

<u>Action</u>

#### 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	\$1.19	+	\$1.45	+	\$1.16	+	\$9.17	=	\$12.98
install	1ø - 4/0 AWG Triplex	\$1.56	+	\$2.36	+	\$1.16	+	\$9.17	=	\$14.26

#### 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 Cost

\$83.87	
/Motorial	

(Materiai						iotai	
Handling)		Contractor NPV			Fixe		
Overhead		<u>Labor</u>		OC + SC		Cost	
\$11.42	+	\$87.62	+	\$83.87	=	\$276.41	
\$19.58	+	\$87.62	+	\$83.87	=	\$351.28	

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

UG Service Cable from an OH

Description

1ø - 2/0 AWG Tpx - 2" conduit

1ø - 4/0 AWG Tpx - 3" conduit

OG Service Cable Irolli ali Oli						36	IVICE	
Source to a meter can		Installation Cost	OH Service Equivalent	Installat	ion Cost	Differe	ntial Cost	
Cable & Conduit With Machine Trench	<u>Fixed</u>	Per Foot	<u>Description</u>	Fixed	Per Foot	Fixed	Per Foot	
1ø - 2/0 AWG Triplex	\$276.41	\$12.98	1Ø - 2/0 AWG Triplex	\$257.95	\$1.36	\$18.46	\$11.62	
1ø - 4/0 AWG Triplex	\$351.28	\$14.26	1Ø - 4/0 AWG Triplex	\$258 73	\$2.08	\$92 54	\$12.18	

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

Fixed		1ø UG Secondary or 1ø UG service in conduit from OH source
Charge	Cost/ft	(Base Charge + service length times Cost/ft)
\$18.46	\$11.62	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
\$92.54	\$12.18	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
(\$782.90)	\$11.62	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
(\$708.82)	\$12.18	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

Material

\$93.50

\$160.21

#### 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

		i otai		System
		Removal	System	Average
<u>Action</u>	Average length service	<u>Cost</u>	<u>%</u>	Cost
remove	1ø - #2 AWG Triplex	\$87.60	10%	\$8.76
remove	1ø - 2/0 AWG Triplex	\$87.60	70%	\$61.32
remove	1ø - 4/0 AWG Triplex	\$87.60	20%	\$17.52
	System Average cost to remove average length 1ø service			\$87.60
		Total		System
		Removal	System	Average
<u>Action</u>	Service length with a service pole	<u>Cost</u>	<u>%</u>	Cost
remove	1ø - #2 AWG Triplex	\$147.57	10%	\$14.76
remove	1ø - 2/0 AWG Triplex	\$147.57	70%	\$103.30
remove	1ø - 4/0 AWG Triplex	\$147.57	20%	\$29.51
remove	30' wood pole, drive hook	\$303.06	50%	\$151.53
remove	35' wood pole, drive hook	\$313.38	50%	\$156.69

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

Book Value Assumptions:

1. Average depreciation 0.036
2. Age of pole & service, yrs. 11
3. Handy Whitman Ratio, total dist.plant, 2007/2017 0.74

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	Cost	<u>%</u>	Cost
install	1ø - #2 AWG Triplex	\$219.14	10%	\$21.91
install	1ø - 2/0 AWG Triplex	\$254.54	70%	\$178.18
install	1ø - 4/0 AWG Triplex	\$310.07	20%	\$62.01
	System Average cost to install average length 1ø service			\$262.11
	Book Value for average length 1ø service			\$117.48
		Total		System
		Installation	System	Average
<u>Action</u>	Service length that requires a service pole	Cost	<u>%</u>	Cost
install	1ø - #2 AWG Triplex	\$377.23	10%	\$37.72
install	1ø - 2/0 AWG Triplex	\$447.11	70%	\$312.98
install	1ø - 4/0 AWG Triplex	\$555.30	20%	\$111.06
install	35' wood pole, cable spacer	\$606.95	50%	\$303.48
	Haul pole to job site	\$194.41	100%	\$194.41
	System Average cost to install average long 1ø service with service pole			\$959.65
	Book Value for average long 1ø service with service pole			\$430.12
			Remove	Book value

	Remove	Book value	Conversion
1ø Conversion Cost from OH to UG service	Cost	Cost	Cost
1ø Average Service - 100 ft or less(Svc without pole) = (book value + removal)	\$87.60	\$117.48	\$205.08
1ø Average Long Service- Greater than 100 ft (svc with one pole) = (book value + removal)	\$455.79	\$430.12	\$885.91

### Tariff Sheet No. 5.516 (3.7.2)

	Current			CPI -U		Pr	oposed
	Deposit						eposit
Density Class	2018		2018	2019	2020		2021
Urban commercial or residential (\$/mile)	\$	9,896	2.40%	1.80%	0.80%	\$	10,391
Rural commercial or residential (\$/mile)	\$	5,657	2.40%	1.80%	0.80%	\$	5,940
Per Lot Subdivisions (\$/lot)	\$	47	2.40%	1.80%	0.80%	\$	49

#### Table I OPERATING COSTS

	OPERATING COSTS								
								3-Yr Average Allocated	3-Yr Average Allocated
		2018 Actual \$	2019 Actual \$	2020 Actual \$	3-Yr Average \$	OH Ratio	UG Ratio	Overhead \$	Underground \$
Overhead - Blanket Account	New SAP/Funding project				-				*
D-CRR-Voltage-OH (NEW) PRE - Dist Line - Fault Indicators	CRR-02630, CRR-02879 PRE-05080	\$173,845 \$5,602	\$236,000 \$6,977	\$263,090 \$13,005	\$224,312 \$8,528	100.0% 100.0%	0.0%	\$224,312 \$8,528	\$0 \$0
Distr - Maint - Corrective - OH Line	CRR-02682, CRR-03641, PRE-04820	\$9,965,721	\$11,118,166	\$10,246,537	\$10,443,475	100.0%	0.0%	\$10,443,475	\$0
Distribution - Maint - OH System Improvements		\$0	\$0	\$0	\$0	100.0%	0.0%	\$0	\$0
Distribution - Maint - Mgmt & Coordination Distr - Maint - Preventative - OH Line	PRE-02805, PRE-02627	\$0 \$6,761,430	\$0 \$9,140,424	\$0 \$6,448,231	\$0 \$7,450,028	100.0% 100.0%	0.0%	\$0 \$7,450,028	\$0 \$0
Distr - Maint - Trouble - OH Storm	CRR-02625, CRR-07052	\$2,215,981	\$7,584,782	\$687,761	\$3,496,175	100.0%	0.0%	\$3,496,175	\$0
Distr - Maint - Pole Inspect & Change-Outs	PRE-02624	\$15,267,786		\$11,097,693	\$15,438,414	100.0%	0.0%	\$15,438,414	\$0
Distr - Maint - Damage Replacement - OH Line CRR - Dist Line - Reclosers / Trip-savers	CRR-02629, CRR-07072 CRR-12716	\$1,689,413 \$229,616	\$2,037,373 \$240,114	\$2,655,044 \$512,584	\$2,127,277 \$327,438	100.0% 100.0%	0.0%	\$2,127,277 \$327,438	\$0 \$0
Distr - Maint - Capacitors	PRE-02631, CRR-02628	\$435,897	\$131,914	\$298,534	\$288,782	100.0%	0.0%	\$288,782	\$0
Distr - Maint - Trouble - Non-Storm Distr - Maint - Tree Trimming - Planned		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	0.0%	0.0%	\$0 \$0	\$0 \$0
Distr - Env - Train/Permit/Inspect/Audit/Protect		\$0	\$0	\$0 \$0	\$0	100.0%	0.0%	\$0	\$0 \$0
Distr - Maint - Tree Trimming - Unplanned		\$0	\$0	\$0	\$0	0.0%	0.0%	\$0	\$0
Distr - Maint - Pole Reinforcements Distr - Maint - Pole CLAs & Change-Outs	PRE-03670 PRE-03640	\$467,400 \$254,663	\$401,509 \$84,313	\$434,229 \$67,705	\$434,379 \$135,560	100.0% 100.0%	0.0%	\$434,379 \$135,560	\$0 \$0
Distr - Maint - Infrared Thermography	11/2 00010	\$0	\$0	\$0	\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Services - OH Line	CRR-02680	\$774,551	\$892,002	\$966,573	\$877,709	0.0%	0.0%	\$0	\$0
	Subtotal	\$38,241,906	\$51,823,336	\$33,690,986	\$41,252,076				
<u>Underground - Blanket Account</u> D-CRR-Voltage-UG	CRR-03814	\$7,589	\$10,670	\$23,632	\$13,964	0.0%	100.0%	\$0	\$13,964
D-PRE-Transformers-UG	PRE-03623	\$3,504,752	\$1,551,277	\$2,084,383	\$2,380,137	0.0%	100.0%	\$0 \$0	\$2,380,137
Distr - Maint - Corrective - UG Line	CRR-02644, CRR-03642	\$13,068,396	10,753,405	\$10,427,986	\$11,416,595	0.0%	100.0%	\$0	\$11,416,595
Distribution - Maint - UG System Improvements Distribution - Maint - Mgmt & Coordination		\$0 \$0	0	\$0 \$0	\$0 \$0	0.0%	100.0% 100.0%	\$0 \$0	\$0 \$0
Distr - Maint - Preventative - UG Line	PRE-02809, PRE-02646	\$1,084,178	\$3,983,848	\$9,506,194	\$4,858,073	0.0%	100.0%	\$0	\$4,858,073
Distr - Maint - Network Corrective	CRR-02636	\$77,136	\$250,177	\$33,100	\$120,138	0.0%	100.0%	\$0	\$120,138
Distr - Maint - Network Preventative Distr - Maint - Capacitors - UG	<b>PRE-04357</b> CRR-02651, PRE-03813	\$762,566 \$12,430	\$1,290,770 \$396	\$25,243 \$53,629	\$692,860 \$22,152	0.0%	100.0% 100.0%	\$0 \$0	\$692,860 \$22,152
Distr - Maint - UG Cable Rplcmnt - Planned	CRR-02649	\$3,724,487	\$3,944,431	\$2,906,062	\$3,524,993	0.0%	100.0%	\$0	\$3,524,993
Distr - Maint - Trouble - UG Storm Distr - Maint - Damage Replacement - UG Line	CRR-02645 CRR-02652	\$838,010 \$586,171	\$629,674 \$1,105,493	\$265,878 \$1,211,387	\$577,854 \$967,684	0.0% 0.0%	100.0% 100.0%	\$0 \$0	\$577,854 \$967,684
Distr - Maint - Damage Replacement - OG Line  Distr - Maint - UG Cable Rplcmnt - Unplanned	CRR-02002	\$0	\$1,105,495	\$1,211,367	\$00,004	0.0%	100.0%	\$0	\$907,004
Distr - Maint - Services - UG Line	CRR-02679	\$1,089,934	\$895,524	\$812,991	\$932,817	0.0%	0.0%	\$0	\$0
	Subtotal	\$24,755,648	\$24,415,665	\$27,350,485	\$25,507,266				
Overhead - O&M Account D-CRR-Voltage-OH (NEW)	CRR-02630, CRR-02879	\$38,513	\$61,979	\$45,644	\$48,712	100.0%	0.0%	\$48,712	\$0
Distr - Maint - Corrective - OH Line	CRR-02858, CRR-02682	\$5,989,559	\$6,759,090	\$7,002,950	\$6,583,866	100.0%	0.0%	\$6,583,866	\$0
Distribution - Maint - OH System Improvements		\$0	\$0	\$0	\$0	100.0%	0.0%	\$0	\$0
Distribution - Maint - Mgmt & Coordination Distr - Maint - Preventative - OH Line	PRE-02627, PRE-02867, PRE-02868	\$0 \$98,503	\$0 \$176,940	\$0 \$124,407	\$0 \$133,283	100.0% 100.0%	0.0%	\$0 \$133,283	\$0 \$0
Distr - Maint - Trouble - OH Storm	CRR-02625, CRR-02877	\$1,308,631	\$1,221,253	\$593,755	\$1,041,213	100.0%	0.0%	\$1,041,213	\$0
Distr - Maint - Pole Inspect & Change-Outs Distr - Maint - Damage Replacement - OH Line	PRE-04039, PRE-02859 CRR-02861, CRR-02629	\$1,929,160 \$178,520	\$1,959,009 \$257,726	\$904,908 \$184,081	\$1,597,692 \$206,775	100.0% 100.0%	0.0%	\$1,597,692 \$206,775	\$0 \$0
Distr - Maint - Damage Replacement - On Line Distr - Maint - Capacitors	CRR-02628, CRR-02629 CRR-02628, CRR-02857	\$176,520 \$190,258	\$149,581	\$29,990	\$123,276	100.0%	0.0%	\$123,276	\$0 \$0
Distr - Maint - Trouble - Non-Storm	CRR-02876	\$2,387,796	\$2,807,237	\$2,814,800	\$2,669,944	0.0%	0.0%	\$0	\$0
CRR - Dist Line - Storms - OH - Restoration CRR - Dist Line - Reclosers / Trip-savers	CRR-10852 CRR-12716	\$0 \$7	\$13,636 \$6,425	\$0 \$137	\$4,545 \$2,190	0.0%	0.0%	\$0 \$0	\$0 \$0
Distr - Maint - Tree Trimming - Planned	PRE-04067	\$10,316,539		\$16,990,720	\$13,691,536	0.0%	0.0%	\$0	\$0
Distr - Env - Train/Permit/Inspect/Audit/Protect	OPS-04740, PRE-04060	\$21,039	\$13,489	\$26,923	\$20,484	100.0%	0.0%	\$20,484	\$0
Distr - Maint - Tree Trimming - Unplanned Distr - Maint - Pole Reinforcements	CRR-03621	\$1,562,584 \$0	\$2,222,800 \$0	\$2,026,699 \$0	\$1,937,361 \$0	0.0% 100.0%	0.0%	\$0 \$0	\$0 \$0
Distr - Maint - Pole CLAs & Change-Outs	PRE-04062	\$0	\$0	\$0	\$0	100.0%	0.0%	\$0	\$0
Distr - Maint - Infrared Thermography	CDD 02000 CDD 02074	\$700.540	\$0	\$0	\$0	100.0%	0.0%	\$0	\$0 \$0
Distr - Maint - Services - OH Line	CRR-02680, CRR-02871 Subtotal	<u>\$786,519</u> \$24,807,628	\$808,204 \$30,224,718	<u>\$839,741</u> \$31,584,755	\$811,488 \$28,872,367	0.0%	0.0%	\$0	\$0
Underground - O&M Account									
D-PRE-Transformers-UG	PRE-03623	\$3,479	\$0	\$0	\$1,160	0.0%	100.0%	\$0	\$1,160
Distr - Maint - Corrective - UG Line Distribution - Maint - UG System Improvements	CRR-02860, CRR-02644	\$1,548,934 \$0	1,449,637 \$0	\$1,710,255 \$0	\$1,569,609 \$0	0.0% 0.0%	100.0% 100.0%	\$0 \$0	\$1,569,609 \$0
Distribution - Maint - Mgmt & Coordination		\$0	\$0	\$0	\$0	0.0%		\$0	\$0
Distr - Maint - Preventative - UG Line	PRE-02869, PRE-02809, PRE-02646, PRE-02870	\$306,486	\$300,272	\$220,874	\$275,877			\$0	\$275,877
Distr - Maint - Network Corrective Distr - Maint - Network Preventative	CRR-02636, CRR-02863 PRE-02864	\$20,524 \$513,913	\$7,379 \$635,686	\$5,573 \$660,604	\$11,159 \$603,401	0.0%	100.0% 100.0%	\$0 \$0	\$11,159 \$603,401
Distr - Locate Facilities	PRE-04063	\$760,468	\$912,001	\$948,183	\$873,551	0.0%	100.0%	\$0	\$873,551
Distr - Maint - UG Cable Rplcmnt - Planned	CRR-03635, CRR-02649	\$127,829 \$120,874	\$71,431	\$23,766	\$74,342 \$56,561	0.0%		\$0 \$0	\$74,342 \$56,561
Distr - Maint - Trouble - UG Storm D-CRR-Capacitors-UG	CRR-02878 CRR-02651	\$120,874 \$0	\$29,492 \$773	\$19,316 \$0	\$56,561 \$258	0.0% 0.0%	100.0% 100.0%	\$0 \$0	\$56,561 \$258
D-CRR-Storms-UG	CRR-02645	\$0	\$0	\$0	\$0	0.0%	100.0%	\$0	\$0
Distr - Maint - Damage Replacement - UG Line Distr - Maint - UG Cable Rplcmnt - Unplanned	CRR-02862, CRR-02652	\$103,901 \$0	\$173,424 \$0	\$174,701 \$0	\$150,675 \$0	0.0%	100.0% 100.0%	\$0 \$0	\$150,675 \$0
Distr - Maint - OG Cable Rpichint - Onplanned Distr - Maint - Services - UG Line	CRR-02679, CRR-02872	\$423,145	\$654,095	\$712,258	\$596,499	0.0%	0.0%	\$0 \$0	\$0 \$0
	Subtotal	\$3,929,552	\$4,234,190	\$4,475,530	\$4,213,091			\$E0 400 670	\$20 404 044
								\$50,129,670	\$28,191,041

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

	2018 Actual \$ 2	2019 Actual \$	2020 Actual \$	3-Yr Average \$	OH Ratio	UG Ratio	Overhead \$	Underground \$
Distribution - Maint - Trouble Calls - Non-storm Blanket O&M	\$0 \$2,387,796	\$0 \$2,807,237	\$0 \$2,814,800	\$0 \$2,669,944	77.7% 77.7%	22.3% 22.3%	\$0 \$2,074,547	\$0 \$595,398
Operating Cost Total from Table I			(A	) 3 Yr Avg Annua	l Operatio	nal Cost	\$50,129,670 <b>\$52,204,216</b>	\$28,191,041 <b>\$28,786,439</b>
	2018 Actual \$ :	2019 Actual \$	2020 Actual \$	3-Yr Average \$	OH Ratio	UG Ratio	Allocated Overhead \$	Allocated Underground \$
Distr - Maint - Tree Trimming - Planned Blanket O&M Distr - Maint - Tree Trimming - Unplanned	\$0 \$10,316,539	\$0 \$13,767,350	\$0 \$16,990,720	\$0 \$13,691,536	96.1% 96.1%	3.9% 3.9%	\$0 \$13,157,894	\$0 \$533,642
Blanket O&M	\$0 \$1,562,584	\$0 \$2,222,800	\$0 \$2,026,699	\$0 \$1,937,361	96.1% 96.1%	3.9% 3.9%	\$0 \$1,861,851	\$0 \$75,511
			(B) 3	Yr Avg Annual Lir	ne Clearar	nce Cost	\$15,019,745	\$609,153
Annual Estimated Storm Costs Storm Damage Annual Accrual Percent for Distribution Lines & Substations Percent for Substations Percent for Distribution Lines Overall Distribution Lines Storm Cost Distribution Lines	\$27,000,000	\$27,000,000	\$27,000,000	\$ 27,000,000 (C) Estimated A	96.0%	4.0% _	\$25,920,000 <b>\$25,920,000</b>	\$1,080,000 <b>\$1,080,000</b>
				(C) Estillated A	illiuai Sic	iiii Cost	\$25,920,000	\$1,000,000
Pole Attachment Revenue	\$4,429,688	\$4,495,861	\$4,591,960 <b>(D) 201</b> 0	\$4,505,836 O Annual Pole Att		0.0% _ Revenue	\$4,505,836 <b>\$4,505,836</b>	\$0 <b>\$0</b>
Table III SERVICE CONDUCTOR								
Distr - Maint - Services - OH Line Blanket O&M	\$774,551 \$786,519	\$892,002 \$808,204	\$966,573 \$839,741	\$877,709 \$811,488	100.0% 100.0%	0.0% 0.0%	\$877,709 \$811,488	\$0 \$0
Distr - Maint - Services - UG Line Blanket O&M	\$1,089,934 \$423,145	\$895,524 \$654,095	\$812,991 \$712,258	\$932,817 \$596,499	0.0% 0.0%	100.0% 100.0%	\$0 \$0	\$932,817 \$596,499
			(A	) 3 Yr Avg Annua	l Operatio	nal Cost	\$1,689,197	\$1,529,316
Table IV ALLOCATION FACTORS								
Line Clearance 2020 No. of company owned distribution poles 2020 No. of Terminal Poles on System	418,770 16,322	96.1% 3.9%						
Distribution - Maint - Trouble Calls - Non-storm		2020	2020					
No Outage Events (N) Outage Sys Avg Duration (L-Bar) Trouble Calls Weighted Avg Proportion (N) X (L-Bar) Allocation Percentage	2020 Entire System 9,810 166.49 1,633,267	Overhead System 8,018 158.36 1,269,730 77.7%	Underground System 1,792 202.88 363,561 22.3%					
Service Count (Based on Metered Accounts)  Overhead Single & Three Phase (Excluding Multi-Family)  Underground Single Phase (Excluding Multi-Family)	No of Services ( 246,960 284,735	Based on Mete	ered Accounts)					

Allocated

Allocated

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

### Assumptions: Inflation Rate

0.80 % Discount Rate Book Life 6.70 % 35 Yrs 2.1 % Pole Attach Revenue Increase

				Overhead S	ystem			
	( <u>A)</u>	( <u>D)</u> <u>3 Yr Avg</u> Annual Pole	(A)+(D) 3 Yr Avq Annual Operational Cost Incl Lost	( <u>B)</u> 3 Yr Avg Annual Line	(C) Estimated	(A)+(B)+(C)+ (D)	(A)+(B)+(D)	(C)
	<u>ਪਨਾ</u> 3 Yr Avg Annual	Attachment	Attachment	Clearance		NPV Incl Storm		
Yr	Operational Cost (\$)	Revenue (\$)	Revenue(\$)	Cost (\$)	Cost (\$)	(\$)	(\$)	(\$)
1		\$ (4,505,836)	\$ 47,698,380		\$ 25,920,000	\$ 73,618,380		
2	52,621,850	(4,602,149)	. , ,	Ψ -	26,127,360	\$ 69,491,154		
3	53,042,825	(4,700,520)		_	26,336,379	\$ 65,594,559	. , ,	
4		(4,800,993)		_	26,547,070	\$ 61,915,739		
5	53,894,905	(4,903,615)		-	26,759,446	\$ 58,442,554		
6	54,326,064	(5,008,429)		-	26,973,522	\$ 55,163,537		. , ,
7	54,760,673	(5,115,484)		-	27,189,310	\$ 52,067,862		
8	55,198,758	(5,224,828)		-	27,406,825	\$ 49,145,304	\$31,738,951	\$17,406,353
9	55,640,348	(5,336,509)	\$ 50,303,839	-	27,626,079	\$ 46,386,208	\$29,942,343	\$16,443,865
10	56,085,471	(5,450,577)	\$ 50,634,894	-	27,847,088	\$ 43,781,455	\$28,246,857	\$15,534,598
11	56,534,155	(5,567,083)		-	28,069,865	\$ 41,322,435	\$26,646,826	\$14,675,609
12	56,986,428	(5,686,079)	\$ 51,300,349	-	28,294,424	\$ 39,001,017	\$25,136,899	\$13,864,118
13	57,442,319	(5,807,619)	\$ 51,634,700	-	28,520,779	\$ 36,809,522	\$23,712,024	\$13,097,498
14	57,901,858	(5,931,757)	\$ 51,970,101	-	28,748,945	\$ 34,740,700	\$22,367,431	\$12,373,269
15	58,365,073	(6,058,548)	\$ 52,306,525	16,792,293	28,978,937	\$ 39,561,126	\$27,872,039	\$11,689,087
16	58,831,993	(6,188,050)	\$ 52,643,944	16,926,631	29,210,768	\$ 37,342,951	\$26,300,215	\$11,042,736
17	59,302,649	(6,320,319)	\$ 52,982,330	17,062,044	29,444,454	\$ 35,248,741	\$24,816,615	\$10,432,125
18	59,777,071	(6,455,416)	\$ 53,321,654	17,198,540	29,680,010	\$ 33,271,584	\$23,416,305	\$9,855,279
19	60,255,287	(6,593,401)	\$ 53,661,887	17,336,129	29,917,450	\$ 31,404,955	\$22,094,626	\$9,310,329
20	60,737,329	(6,734,335)	\$ 54,002,995	17,474,818	30,156,790	\$ 29,642,691	\$20,847,179	\$8,795,512
21	61,223,228	(6,878,281)	\$ 54,344,947	17,614,616	30,398,044	\$ 27,978,971	\$19,669,808	\$8,309,162
22	61,713,014	(7,025,304)	\$ 54,687,710	17,755,533	30,641,228	\$ 26,408,300	\$18,558,594	\$7,849,706
23	62,206,718	(7,175,470)	\$ 55,031,248	17,897,578	30,886,358	\$ 24,925,487	\$17,509,833	\$7,415,654
24		(7,328,846)		18,040,758	31,133,449	\$ 23,525,631	\$16,520,027	\$7,005,604
25	63,206,007	(7,485,500)		18,185,084	31,382,517	\$ 22,204,104	\$15,585,876	\$6,618,228
26	63,711,655	(7,645,502)		18,330,565	31,633,577	\$ 20,956,535	\$14,704,264	\$6,252,271
27	64,221,348	(7,808,925)		18,477,209	31,886,645	\$ 19,778,797	\$13,872,246	\$5,906,551
28	64,735,119	(7,975,841)		18,625,027	32,141,739	\$ 18,666,992	\$13,087,045	\$5,579,947
29	65,253,000	(8,146,324)		18,774,027	32,398,872	\$ 17,617,440		
30	65,775,024	(8,320,452)		18,924,220	32,658,063	\$ 16,626,665	. , ,	
31	66,301,224	(8,498,302)		19,075,613	32,919,328	\$ 15,691,386		
32	66,831,634	(8,679,953)		19,228,218	33,182,683	\$ 14,808,503		
33	67,366,287	(8,865,487)		19,382,044	33,448,144	\$ 13,975,091	\$9,776,432	
34	67,905,217	(9,054,987)		19,537,100	33,715,729	\$ 13,188,385		
35	68,448,459	(9,248,537)	\$ 59,199,922	19,693,397	33,985,455 SUM	\$ 12,445,777 \$ 1,222,750,539	\$8,698,612 \$ 818,013,292	\$3,747,165 \$ 404,737,247

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

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

Assumptions: Inflation Rate 0.80 % 6.70 % 35 Yrs 2.1 % Discount Rate Book Life Pole Attach Revenue Increase

Underground System								
	<u>(A)</u>	<u>(B)</u>	<u>(C)</u>					
	3 Yr Avg	3 Yr Avg	<u>Estimated</u>					
	Annual	Annual Line	Annual		(A)+(B)+(C)		(A)+(B)	(C)
.,	Operational	Clearance	Storm Cost	NI	PV Incl Storm	NI	V Excl Storm	NPV Storm
Yr	Cost (\$) \$ 28.786.439	Cost (\$)	<u>(\$)</u>	Φ.	<u>(\$)</u>	Φ.	<u>(\$)</u>	Only (\$)
1 2	+ -,,	\$ -	\$ 1,080,000	\$	29,866,439	\$	28,786,439	\$1,080,000
3	29,016,730 29,248,864	-	1,088,640 1,097,349	Ф \$	28,214,967 26,654,815	\$ \$	27,194,686 25,690,950	\$1,020,281 \$963,864
4	29,482,855	-	1,106,128	\$	25,180,931	\$	24,270,363	\$910,567
5	29,718,718	_	1,114,977	\$	23,788,546	\$	22,928,328	\$860,217
6	29,956,468	-	1,123,897	\$	22,473,153	\$	21,660,501	\$812,651
7	30,196,119	-	1,132,888	\$	21,230,495	\$	20,462,779	\$767,716
8	30,437,688	-	1,141,951	\$	20,056,550	\$	19,331,285	\$725,265
9	30,681,190	-	1,151,087	\$	18,947,519	\$	18,262,358	\$685,161
10	30,926,639	-	1,160,295	\$	17,899,811	\$	17,252,537	\$647,275
11	31,174,052	-	1,169,578	\$	16,910,037	\$	16,298,554	\$611,484
12	31,423,445	-	1,178,934	\$	15,974,993	\$	15,397,322	\$577,672
13	31,674,832	-	1,188,366	\$	15,091,652	\$	14,545,923	\$545,729
14 15	31,928,231 32,183,657	- 681,042	1,197,873 1,207,456	\$ \$	14,257,156 13,743,512	\$ \$	13,741,603 13,256,467	\$515,553 \$487,045
16	32,441,126	686,490	1,207,436	Ф \$	12,983,561	\$	12,523,447	\$460,114
17	32,700,655	691,982	1,226,852	\$	12,265,632	\$	11,830,961	\$434,672
18	32,962,260	697,518	1,236,667	\$	11,587,402	\$	11,176,765	\$410,637
19	33,225,959	703,098	1,246,560	\$	10,946,674	\$	10,558,743	\$387,930
20	33,491,766	708,723	1,256,533	\$	10,341,375	\$	9,974,895	\$366,480
21	33,759,700	714,392	1,266,585	\$	9,769,546	\$	9,423,331	\$346,215
22	34,029,778	720,107	1,276,718	\$	9,229,337	\$	8,902,266	\$327,071
23	34,302,016	725,868	1,286,932	\$	8,718,999	\$	8,410,013	\$308,986
24	34,576,432	731,675	1,297,227	\$	8,236,880	\$	7,944,980	\$291,900
25	34,853,044	737,529	1,307,605	\$	7,781,420	\$	7,505,660	\$275,759
26	35,131,868	743,429	1,318,066	\$	7,351,145	\$	7,090,633	\$260,511 \$246,406
27 28	35,412,923 35,696,226	749,376 755,371	1,328,610 1,339,239	\$ \$	6,944,661	\$ \$	6,698,555 6,328,157	\$246,106 \$232,498
28 29	35,981,796	755,371 761,414	1,339,239	\$	6,560,655 6,197,882	\$ \$	5,978,240	\$232,498 \$219,642
30	36,269,651	767,506	1,360,753	\$	5,855,169	\$	5,647,672	\$207,497
31	36,559,808	773,646	1,371,639	\$	5,531,406	\$	5,335,383	\$196,023
32	36,852,286	779,835	1,382,612	\$	5,225,546	\$	5,040,362	\$185,184
33	37,147,105	786,074	1,393,673	\$	4,936,598	\$	4,761,654	\$174,944
34	37,444,281	792,362	1,404,822	\$	4,663,628	\$	4,498,357	\$165,271
35	37,743,836	798,701	1,416,061	\$	4,405,751	\$	4,249,619	\$156,132
			SUM	\$	469,823,841	\$	452,959,789	\$ 16,864,052

### Table VI (A) NET PRESENT VALUE LIFECYCLE COST CALCULATION (Services)

Assumptions: Inflation Rate

0.80 % 6.70 % 35 Yrs 2.1 % Discount Rate Book Life Pole Attach Revenue Increase

1 3 4 5 6 7 8 9 10 11 12 13 14	(A) 3 Yr Avg Annual Operational Cost (\$) \$ 1,689,197 1,702,710 1,716,332 1,730,062 1,743,903 1,757,854 1,771,917	(D) 3 Yr Avg Annual Pole Attachment Revenue (\$) \$	O Co A R	(A)+(D) 3 Yr Avg Annual perational st Incl Lost ttachment evenue(\$) 1,689,197	(B) 3 Yr Avg Annual Line Clearance Cost (\$)	(C) Estimated Annual Storm	(A)+(B)+(C)+ (D)	(A)+(B)+(D)	(C)
1 3 4 5 6 7 8 9 10 11 12 13 14	\$ 1,689,197 1,702,710 1,716,332 1,730,062 1,743,903 1,757,854		\$ \$		( 'Oct (%)	O ( (A)	NPV Incl Storm	NPV Excl Storm	NPV Storm
2 3 4 5 6 7 8 9 10 11 12 13 14	1,702,710 1,716,332 1,730,062 1,743,903 1,757,854	\$ - - - -	\$	1 680 107		Cost (\$)	(\$)	<u>(\$)</u>	Only (\$)
3 4 5 6 7 8 9 10 11 12 13 14	1,716,332 1,730,062 1,743,903 1,757,854	-			\$ -	\$ -	\$ 1,689,197	\$1,689,197	<b>\$</b> 0
4 5 6 7 8 9 10 11 12 13 14	1,730,062 1,743,903 1,757,854	-		1,702,710	-	-	\$ 1,595,792	\$1,595,792	<b>\$</b> 0
5 6 7 8 9 10 11 12 13	1,743,903 1,757,854	-	\$ \$	1,716,332	-	-	\$ 1,507,552 \$ 1,424,192	\$1,507,552 \$1,434,103	\$0 \$0
6 7 8 9 10 11 12 13 14	1,757,854			1,730,062	-	-		\$1,424,192 \$1,345,441	
7 8 9 10 11 12 13 14		-	\$	1,743,903	-	-	\$ 1,345,441	\$1,345,441 \$4,374,044	\$0 \$0
8 9 10 11 12 13 14	[.771.917	-	\$ \$	1,757,854	-	-	\$ 1,271,044 \$ 1,200,762	\$1,271,044	\$0 \$0
9 10 11 12 13 14		-		1,771,917	-	-		\$1,200,762	\$0 \$0
10 11 12 13 14	1,786,092		\$ \$	1,786,092	-	-		\$1,134,365	\$0 \$0
11 12 13 14	1,800,381	-		1,800,381	-	-		\$1,071,640	\$0 \$0
12 13 14	1,814,784	-	\$	1,814,784	-	-		\$1,012,384	
13 14	1,829,302	-	\$	1,829,302	-	-		\$956,404	\$0 \$0
14	1,843,937	-	\$	1,843,937	-	-	\$ 903,519	\$903,519	\$0 \$0
	1,858,688	-	\$	1,858,688	-	-	\$ 853,559	\$853,559	\$0 \$0
	1,873,558	-	\$	1,873,558	-	-	\$ 806,361	\$806,361	\$0 \$0
15	1,888,546	-	\$	1,888,546	-	-	\$ 761,773	\$761,773	\$0 \$0
16	1,903,655	-	\$	1,903,655	-	-	\$ 719,651	\$719,651	\$0 \$0
17	1,918,884	-	\$	1,918,884	-	-	\$ 679,858 \$ 642,265	\$679,858	\$0 ©0
18 19	1,934,235	-	\$ \$	1,934,235	-	-		\$642,265	\$0 \$0
	1,949,709	-		1,949,709	-	-	\$ 606,751	\$606,751	
20	1,965,307	-	\$	1,965,307	-	-	\$ 573,200	\$573,200	\$0 \$0
21	1,981,029	-	\$	1,981,029	-	-	\$ 541,505	\$541,505 \$544,503	\$0 \$0
22	1,996,877	-	\$	1,996,877	-	-	\$ 511,562	\$511,562 \$482,275	\$0 \$0
23	2,012,852	-	\$	2,012,852	-	-	\$ 483,275	\$483,275	\$0 \$0
24	2,028,955	-	\$	2,028,955	-	-	\$ 456,553	\$456,553 \$434,307	\$0 ©0
25	2,045,187	-	\$	2,045,187	-	-	\$ 431,307	\$431,307	\$0 \$0
26	2,061,548	-	\$	2,061,548	-	-	\$ 407,458	\$407,458	\$0 \$0
27	2,078,041	-	\$	2,078,041	-	-	\$ 384,928	\$384,928	\$0 \$0
28	2,094,665	-	\$	2,094,665	-	-	\$ 363,643	\$363,643	\$0 \$0
29	2,111,422	-	\$	2,111,422	-	-	\$ 343,535	\$343,535	\$0 \$0
30	2,128,314	-	\$	2,128,314	-	-	\$ 324,539	\$324,539	\$0
31	2,145,340	-	\$	2,145,340	-	-	\$ 306,594	\$306,594	\$0 \$0
32	2,162,503	-	\$	2,162,503	-	-	\$ 289,641	\$289,641	<b>\$</b> 0
33	2,179,803	-	\$	2,179,803	-	-	\$ 273,625	\$273,625	<b>\$</b> 0
34	0.40= 5 ::	-	\$	2,197,241 2,214,819	-	-	\$ 258,495	\$258,495	\$0
35	2,197,241 2,214,819	_	\$				\$ 244,201	\$244,201	\$0 \$0

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

### Table VI (B) NET PRESENT VALUE LIFECYCLE COST CALCULATION (Services)

### Assumptions: Inflation Rate

0.80 % 6.70 % 35 Yrs 2.1 % Discount Rate Book Life Pole Attach Revenue Increase

Underground System								
	(A) 3 Yr Avg Annual Operational	(B) 3 Yr Avg Annual Line Clearance	(C) Estimated Annual Storm		(A)+(B)+(C) PV Incl Storm	<u>NP</u>	(A)+(B) V Excl Storm	(C) NPV Storm
Yr	Cost (\$)	Cost (\$)	Cost (\$)		<u>(\$)</u>		<u>(\$)</u>	Only (\$)
1	\$ 1,529,316	\$ -	\$ -	\$	1,529,316	\$	1,529,316	\$0
2	1,541,550	-	-	\$	1,444,752	\$	1,444,752	\$0
3	1,553,883	-	-	\$	1,364,864	\$	1,364,864	\$0
4	1,566,314	-	-	\$	1,289,394	\$	1,289,394	\$0
5	1,578,844	-	-	\$	1,218,096	\$	1,218,096	\$0
6	1,591,475	-	-	\$	1,150,741	\$	1,150,741	\$0
7	1,604,207	-	-	\$	1,087,111	\$	1,087,111	\$0
8	1,617,041	-	-	\$	1,026,999	\$	1,026,999	\$0
9	1,629,977	-	-	\$	970,211	\$	970,211	\$0
10	1,643,017	-	-	\$	916,563	\$	916,563	\$0
11	1,656,161	-	-	\$	865,881	\$	865,881	\$0
12	1,669,410	-	-	\$	818,002	\$	818,002	\$0
13	1,682,765	-	-	\$	772,771	\$	772,771	\$0
14	1,696,228	-	-	\$	730,040	\$	730,040	\$0
15	1,709,797	-	-	\$	689,672	\$	689,672	\$0
16	1,723,476	-	-	\$	651,537	\$	651,537	\$0
17	1,737,264	-	-	\$	615,510	\$	615,510	\$0
18	1,751,162	-	-	\$	581,475	\$	581,475	\$0
19	1,765,171	-	-	\$	549,322	\$	549,322	\$0
20	1,779,292	-	-	\$	518,947	\$	518,947	\$0
21	1,793,527	-	-	\$	490,252	\$	490,252	\$0
22	1,807,875	-	-	\$	463,143	\$	463,143	\$0
23	1,822,338	-	-	\$	437,534	\$	437,534	\$0
24	1,836,917	-	-	\$	413,340	\$	413,340	\$0
25	1,851,612	-	-	\$	390,485	\$	390,485	\$0
26	1,866,425	-	-	\$	368,893	\$	368,893	\$0
27	1,881,356	-	-	\$	348,495	\$	348,495	\$0
28	1,896,407	-	-	\$	329,225	\$	329,225	\$0
29	1,911,578	-	-	\$	311,020	\$	311,020	\$0
30	1,926,871	-	-	\$	293,822	\$	293,822	\$0
31	1,942,286	-	-	\$	277,575	\$	277,575	\$0
32	1,957,824	-	-	\$	262,227	\$	262,227	\$0
33	1,973,487	-	-	\$	247,727	\$	247,727	\$0
34	1,989,275	-	-	\$	234,029	\$	234,029	\$0
35	2,005,189	-	-	\$	221,088	\$	221,088	\$0
			SUM	\$	23,880,057	\$	23,880,057	\$ -

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

	<u>Overhead</u>		
Primary Voltage System  NPV Life Cycle Cost  System Miles OH  NPV Life Cycle Cost / Mile	Incl Storm	Excl Storm	Storm Only
	\$1,222,750,539	\$818,013,292	\$404,737,247
	6,246	6,246	6,246
	\$195,765.38	\$130,965.94	\$64,799.43
Services  NPV Life Cycle Cost  Number of Services  NPV Life Cycle Cost / Service	Incl Storm	Excl Storm	Storm Only
	\$26,376,573	\$26,376,573	\$0
	246,960	246,960	246,960
	\$106.81	\$106.81	\$0.00
	Underground		
Primary Voltage System  NPV Life Cycle Cost System Miles OH  NPV Life Cycle Cost / Mile	Incl Storm	Excl Storm	Storm Only
	\$469,823,841	\$452,959,789	\$16,864,052
	5,715	5,715	5,715
	\$82,208.90	\$79,258.06	\$2,950.84
Services  NPV Life Cycle Cost  Number of Services  NPV Life Cycle Cost / Service	Incl Storm	Excl Storm	Storm Only
	\$23,880,057	\$23,880,057	\$0
	284,735	284,735	284,735
	\$83.87	\$83.87	\$0.00
Primary Voltage System  NPV Life Cycle Cost / Mile	Differential Incl Storm -\$113,556.48	Excl Storm -\$51,707.88	Storm Only -\$61,848.59

Incl Storm

-\$22.94

Services NPV Life Cycle Cost / Service

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

Excl Storm -\$22.94

Storm Only

\$0.00

#### **Low Density Subdivision** Overhead

	Number of Lots	Miles of Line	Incl Storm \$ / Lot	Excl Storm \$ / Lot	Storm Only \$ / Lot
Primary Voltage System 1	210	1.92	\$1,789.85	\$1,197.40	\$592.45
Services	NA	NA	\$106.81	\$106.81	\$0.00
Primary & Service			\$1,896.66	\$1,304.21	\$592.45
		Underground			
Primary Voltage System <sup>1</sup>	210	2.99	\$1,170.50	\$1,128.48	\$42.01
Services	NA	NA	\$83.87	\$83.87	\$0.00
Primary & Service			\$1,254.37	\$1,212.35	\$42.01
Primary & Service		Differential	-\$642.29	-\$91.86	-\$550.44

<u>High</u>	Density	<u> Subdivision</u>

	riigii Delisi	ty Subulvision			
		<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	\$1,301.39	\$870.63	\$430.77
Services	NA	NA	\$106.81	\$106.81	\$0.00
Primary & Service			\$1,408.20	\$977.44	\$430.77
		Underground			
Primary Voltage System 1	176	1.07	\$499.79	\$481.85	\$17.94
Services	NA	NA	\$83.87	\$83.87	\$0.00
Primary & Service			\$583.66	\$565.72	\$17.94
Primary & Service		<u>Differential</u>	-\$824.54	-\$411.72	-\$412.83

N	ote	
4	_	

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

#### <u>Table IX</u> 2020 O&M - FORM 13

		2020 Actual \$	OH Ratio	UG Ratio	2020 Allocated Overhead \$	2020 Allocated Underground \$
Overhead - Blanket Account 0 D-CRR-Voltage-OH (NEW)		\$263,090	100.0%	0.0%	\$263,090	\$0
0 PRE - Dist Line - Fault Indicators		\$13,005	100.0%	0.0%	\$13,005	\$0 \$0
51 Distr - Maint - Corrective - OH Line		\$10,246,537	100.0%	0.0%	\$10,246,537	\$0
49 Distribution - Maint - OH System Improvements			100.0%	0.0%	\$0 \$0	\$0 \$0
164 Distribution - Maint - Mgmt & Coordination 53 Distr - Maint - Preventative - OH Line			100.0% 100.0%	0.0%	\$0 \$6,448,231	\$0 \$0
57 Distr - Maint - Trouble - OH Storm		\$687,761	100.0%	0.0%	\$687,761	\$0
59 Distr - Maint - Pole Inspect & Change-Outs		\$11,097,693	100.0%	0.0%	\$11,097,693	\$0
60 Distr - Maint - Damage Replacement - OH Line 61 Distr - Maint - Capacitors		\$2,655,044 \$298,534	100.0% 100.0%	0.0%	\$2,655,044 \$298,534	\$0 \$0
65 Distr - Maint - Trouble - Non-Storm		\$0	0.0%	0.0%	\$0	\$0
67 Distr - Maint - Tree Trimming - Planned		\$0	0.0%	0.0%	\$0	\$0
162 Distr - Env - Train/Permit/Inspect/Audit/Protect 197 Distr - Maint - Tree Trimming - Unplanned		\$0 \$0	100.0% 0.0%	0.0%	\$0 \$0	\$0 \$0
199 Distr - Maint - Pole Reinforcements		\$434,229	100.0%	0.0%	\$434,229	\$0
202 Distr - Maint - Pole CLAs & Change-Outs		\$67,705	100.0%	0.0%	\$67,705	\$0
NEW Distr - Maint - Infrared Thermography 204 Distr - Maint - Services - OH Line		\$0	100.0%	0.0%	\$0	\$0 \$0
204 Disti - Maint - Gervices - O'il Enie	Subtotal	\$966,573 \$33,178,402	0.0%	0.0%	\$0	Ψ0
Underground - Blanket Account						
D-CRR-Voltage-UG     D-PRE-Transformers-UG		\$23,632 \$2,084,383	0.0%	100.0% 100.0%	\$0 \$0	\$23,632 \$2,084,383
52 Distr - Maint - Corrective - UG Line		\$10,427,986	0.0%	100.0%	\$0	\$10,427,986
50 Distribution - Maint - UG System Improvements		\$0	0.0%	100.0%	\$0	\$0
164 Distribution - Maint - Mgmt & Coordination		\$0	0.0%	100.0%	\$0	\$0 \$0,500,404
54 Distr - Maint - Preventative - UG Line 55 Distr - Maint - Network Corrective		\$9,506,194 \$33,100	0.0%	100.0% 100.0%	\$0 \$0	\$9,506,194 \$33,100
56 Distr - Maint - Network Preventative		\$25,243	0.0%	100.0%	\$0	\$25,243
0 Distr - Maint - Capacitors - UG		\$53,629	0.0%	100.0%	\$0	\$53,629
194 Distr - Maint - UG Cable Rplcmnt - Planned 195 Distr - Maint - Trouble - UG Storm		\$2,906,062 \$265,878	0.0% 0.0%	100.0% 100.0%	\$0 \$0	\$2,906,062 \$265,878
196 Distr - Maint - Damage Replacement - UG Line		\$1,211,387	0.0%	100.0%	\$0	\$1,211,387
201 Distr - Maint - UG Cable Rplcmnt - Unplanned		\$0	0.0%	100.0%	\$0	\$0
205 Distr - Maint - Services - UG Line	Subtotal	\$812,991 \$27,350,485	0.0%	0.0%	\$0	\$0
Overhead OSM Assessed	Cubiciai	Ψ21,000,100				
Overhead - O&M Account 0 D-CRR-Voltage-OH (NEW)		\$45,644	100.0%	0.0%	\$45,644	\$0
51 Distr - Maint - Corrective - OH Line		\$7,002,950	100.0%	0.0%	\$7,002,950	\$0
49 Distribution - Maint - OH System Improvements		\$0	100.0%	0.0%	\$0	\$0
164 Distribution - Maint - Mgmt & Coordination 53 Distr - Maint - Preventative - OH Line		\$0 \$124,407	100.0% 100.0%	0.0%	\$0 \$124,407	\$0 \$0
57 Distr - Maint - Trouble - OH Storm		\$593,755	100.0%	0.0%	\$593,755	\$0
59 Distr - Maint - Pole Inspect & Change-Outs		\$904,908	100.0%	0.0%	\$904,908	\$0
60 Distr - Maint - Damage Replacement - OH Line 61 Distr - Maint - Capacitors		\$184,081 \$29,990	100.0% 100.0%	0.0%	\$184,081 \$29,990	\$0 \$0
65 Distr - Maint - Trouble - Non-Storm		\$2,814,800	0.0%	0.0%	\$0	\$0
CRR - Dist Line - Storms - OH - Restoration		\$0	0.0%	0.0%	\$0	\$0
67 Distr - Maint - Tree Trimming - Planned 162 Distr - Env - Train/Permit/Inspect/Audit/Protect		\$16,990,720 \$26,923	0.0% 100.0%	0.0%	\$0 \$26,923	\$0 \$0
197 Distr - Maint - Tree Trimming - Unplanned		\$2,026,699	0.0%	0.0%	\$20,923	\$0 \$0
199 Distr - Maint - Pole Reinforcements		\$0	100.0%	0.0%	\$0	\$0
202 Distr - Maint - Pole CLAs & Change-Outs			100.0%	0.0%	\$0	\$0
NEW Distr - Maint - Infrared Thermography 204 Distr - Maint - Services - OH Line		\$0 \$839,741	100.0% 0.0%	0.0%	\$0 \$0	\$0 \$0
20 F Dioli Ilianik Golfficos GIV Ellie	Subtotal	\$31,584,618	0.070	0.070	Ψ	<b>Q</b> 0
Underground - O&M Account						
D-PRE-Transformers-UG		\$0	0.0%	100.0%	\$0	\$0
52 Distr - Maint - Corrective - UG Line 50 Distribution - Maint - UG System Improvements		\$1,710,255 \$0	0.0%	100.0% 100.0%	\$0 \$0	\$1,710,255 \$0
164 Distribution - Maint - Mgmt & Coordination		\$0 \$0	0.0%	100.0%	\$0 \$0	\$0
54 Distr - Maint - Preventative - UG Line		\$220,874	0.0%	100.0%	\$0	\$220,874
55 Distr - Maint - Network Corrective		\$5,573	0.0%	100.0%	\$0	\$5,573
56 Distr - Maint - Network Preventative 127 Distr - Locate Facilities		\$660,604 \$948,183	0.0%	100.0% 100.0%	\$0 \$0	\$660,604 \$948,183
194 Distr - Maint - UG Cable Rplcmnt - Planned		\$23,766	0.0%	100.0%	\$0	\$23,766
195 Distr - Maint - Trouble - UG Storm		\$19,316	0.0%	100.0%	\$0	\$19,316
196 D-CRR-Capacitors-UG 201 D-CRR-Storms-UG		\$0 \$0	0.0%	100.0% 100.0%	\$0 \$0	\$0 \$0
205 Distr - Maint - Damage Replacement - UG Line		\$174,701	0.0%	100.0%	\$0	\$174,701
Distr - Maint - UG Cable Rplcmnt - Unplanned		\$0	0.0%	100.0%	\$0	\$0
0 Distr - Maint - Services - UG Line	Subtotal	\$712,258 \$4,475,530	0.0%	0.0%	\$0	\$0
	Cubiciai	ψ1,110,000		•	\$41,124,487	\$30,300,766
Distribution - Maint - Trouble Calls - Non-storm Blanket		\$0	77.7%	22.3%	\$0	\$0
O&M		\$2,814,800	77.7%	22.3%	\$2,187,100	\$627,700
Distr - Maint - Tree Trimming - Planned						
Blanket		\$0	96.1%	3.9%	\$0	\$0
O&M Dietr - Maint - Tree Trimming - Upplanned		\$16,990,720	96.1%	3.9%	\$16,328,489	\$662,231
Distr - Maint - Tree Trimming - Unplanned Blanket		\$0	96.1%	3.9%	\$0	\$0
O&M		\$2,026,699	96.1%	3.9%	\$1,947,706	\$78,993
Distr. Maint Condition Office						
Distr - Maint - Services - OH Line Blanket		\$966 572	100 0%	0.0%	\$966 573	\$0
Distr - Maint - Services - OH Line Blanket O&M		\$966,573 \$839,741	100.0% 100.0%	0.0% 0.0%	\$966,573 \$839,741	\$0 \$0
Blanket						
Blanket O&M Distr - Maint - Services - UG Line		\$839,741	100.0%	0.0%	\$839,741	\$0
Blanket O&M Distr - Maint - Services - UG Line Blanket		\$839,741 \$812,991	0.0%	0.0%	\$839,741 \$0	\$0 \$812,991
Blanket O&M Distr - Maint - Services - UG Line		\$839,741	100.0%	0.0%	\$839,741	\$0
Blanket O&M Distr - Maint - Services - UG Line Blanket		\$839,741 \$812,991 \$712,258	0.0%	0.0% 100.0% 100.0%	\$839,741 \$0	\$0 \$812,991

# ENERGY DELIVERY "2021" ADDER STUDY

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

	<u>Toolkit</u>
	Distribution CIAC
Total Corporate Accounting FRINGE Rates per Activity	72.62%
A&G (for PSTEW)	
Other "Operating Labor" related adders:	
Non-Productive Time*	13.00%
Energy Delivery (Supervisory/Administrative)	15.18%
Energy Delivery Engineering	0.00%
Small Tools *	5.39%
TOTAL Other "Labor" related Adders	33.58%
TOTAL Fully Loaded "Labor" adders	106.20%
	4.4.0407
Fleet* as a % of Labor (rate of settled labor w/ fringe)	14.81%
Fleet* as a % of Labor (rate excluding 37% fringe)	20.29%
"Motoriol" selete de delesses	
"Material" related adders:	4.200/
Stores Carrying Cost (ED Stores Clearing) * Stores Carrying Cost (WH Space, Taxes, Insurance & Obsolete Mat)	4.30% 4.83%
Stores Carrying Cost (WH Space, Taxes, Insurance & Obsolete Mat)  Stores Carrying Cost (Cost of Money - PDR only)	0.00%
Self Help *	3.09%
TOTAL "Material" related Adders	12.22%
Other "Contractor" related adders:	
Energy Delivery (Supervisory/Administrative/Engineering)	20.06%
TOTAL Fully Loaded "Contractor" adders	
* When determining final bill true up or calculating pay-after invoice using actual results, exclude these items, which will already be included in actuals	