# Ausley McMullen 

August 10, 2021

## VIA: ELECTRONIC FILING

Mr. Adam J. Teitzman
Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850
Re: Petition of Tampa Electric Company for Approval of Revised Underground Residential Distribution Tariff
Dkt.: 20210064-EI
Dear Mr. Teitzman:

Attached for filing in the above docket is Tampa Electric Company's update to item 3(b) in response to Staff's Third Data Request (Nos. 1-3), propounded on July 26, 2021.

Thank you for your assistance in connection with this matter.


JDB/bmp
Attachment
cc: All Parties of Record (w/attachment)
Holly Forrest, FPSC (w/attachment)

## CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing updated responses of Tampa Electric Company to Staff's Third Data Request (Nos. 1-3), have been furnished by electronic mail on this 10th day of August 2021 to the following:

Shaw Stiller
Office of General Counsel
Florida Public Service Commission
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TAMPA ELECTRIC COMPANY DOCKET NO. 20210064-EI STAFF'S THIRD DATA REQUEST

## REQUEST NO. 3

BATES PAGES: 3-229
FILED: AUGUST 2, 2021
REVISED: AUGUST 4, 2021
SUPPLEMENTED: AUGUST 10, 2021
3. Please provide the Net Present Value of operational costs, including storm restoration costs, calculation, and resulting URD differential for the low- and highdensity subdivisions.
a. Using calculations based on the historical methodology used by TECO for an average of three years for 2018, 2019, and 2020. Provide all supporting workpapers to show the calculations.
b. Using calculations based on an average of five years for the years 2016, 2017, 2018, 2019, and 2020. Please provide all workpapers to show the calculations.
A. a. Please see attached calculations based on the historical methodology for an average of three years for 2018, 2019, and 2020.
b. Please see attached calculations based on the historical methodology for an average of five years for 2016, 2017, 2018, 2019, and 2020.

## 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 | $\mathbf{\$ 1 , 4 2 8 . 5 3}$ | $\mathbf{\$ 2 , 4 4 1 . 1 1}$ | $\mathbf{\$ 1 , 0 1 2 . 5 8}$ |
| NPV Operational Cost Including <br> Storm Restoration and Lost Pole <br> Attachment Revenue | $\$ 1,868.48$ | $\$ 1,129.27$ | -\$739.21 |
| TOTAL <br> NPV Operational Cost | $\mathbf{\$ 3 , 2 9 7 . 0 1}$ | $\mathbf{\$ 3 , 5 7 0 . 3 8}$ | $\mathbf{\$ 2 7 3 . 3 7}$ |

## COST PER SERVICE LATERAL OVERHEAD MATERIAL AND LABOR

Single Occupancy Low Density 210 Lot Subdivision
Cost per Lot

| ITEM | MATERIAL | LABOR $^{1}$ | TOTAL |
| :---: | :---: | :---: | :---: |
| Service $^{2}$ | $\$ 134.88$ | $\$ 79.94$ | $\$ 214.82$ |
| 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 |  |  |  |
| Subtotal | $\$ 77.20$ | $\$ 0.00$ | $\$ 77.20$ |
| Engineering | $\$ 708.94$ | $\$ 653.93$ | $\$ 1,362.87$ |
| TOTAL | $\$ 708.94$ | $\$ 65.66$ | $\$ 65.66$ |

[^0]
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## COST PER SERVICE LATERAL UNDERGROUND MATERIAL AND LABOR

Single Occupancy Low Density 210 Lot Subdivision
Cost per Lot

| ITEM | MATERIAL | LABOR $^{\mathbf{1}}$ | TOTAL |
| :---: | :---: | :---: | :---: |
| Service $^{2}$ | $\$ 331.03$ | $\$ 248.42$ | $\$ 579.45$ |
| 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 ${ }^{3}$ | $\$ 133.72$ | $\$ 0.00$ | $\$ 133.72$ |
| Subtotal | $\$ 1,227.97$ | $\$ 1,147.48$ | $\$ 2,375.45$ |
| Engineering | $\$ 1,227.97$ | $\$ 65.66$ | $\$ 65.66$ |
| TOTAL | $\$ 1,213.14$ | $\$ 2,441.11$ |  |

[^1]


IZI

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 | $\mathbf{\$ 1 , 1 2 1 . 6 5}$ | $\$ 1,881.43$ | $\$ 759.78$ |
| NPV Operational Cost <br> Including Storm Restoration and <br> Lost Pole Attachment Revenue | $\$ 1,387.02$ | $\$ 528.93$ | $-\$ 858.09$ |
| TOTAL |  |  |  |
| Including NPV Operational Cost |  |  |  |

## COST PER SERVICE LATERAL OVERHEAD MATERIAL AND LABOR

Single Occupancy High Density 176 Lot Subdivision Individually Metered

Cost per Lot

| ITEM | MATERIAL | LABOR $^{\mathbf{1}}$ | TOTAL |
| :---: | :---: | :---: | :---: |
| Service $^{2}$ | $\$ 142.24$ | $\$ 91.83$ | $\$ 234.07$ |
| 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 |  | $\$ 60.02$ | $\$ 0.00$ |
| Subtotal | $\$ 551.19$ | $\$ 509.18$ | $\$ 1,060.37$ |
| Engineering |  | $\$ 61.28$ | $\$ 61.28$ |
| TOTAL | $\$ 51.19$ | $\$ 570.46$ | $\$ 1, \mathbf{1 2 1 . 6 5}$ |

[^2]
## COST PER SERVICE LATERAL UNDERGROUND MATERIAL AND LABOR

Single Occupancy High Density 176 Lot Subdivision Individually Metered

Cost per Lot

| ITEM | MATERIAL | LABOR $^{\mathbf{1}}$ | TOTAL |
| :---: | :---: | :---: | :---: |
| Service $^{2}$ | $\$ 288.33$ | $\$ 260.66$ | $\$ 548.99$ |
| 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 | $\$ 771.99$ | $\$ 317.91$ | $\$ 317.91$ |
| Subtotal | $\$ 94.34$ | $\$ 953.82$ | $\$ 1,725.81$ |
| Stores Handling |  | $\$ 0.00$ | $\$ 94.34$ |
| Subtotal | $\$ 866.33$ | $\$ 953.82$ | $\$ 1,820.15$ |
| Engineering |  | $\$ 61.28$ | $\$ 61.28$ |
| TOTAL | $\$ \mathbf{4 6 6 . 3 3}$ | $\$ 1,015.10$ | $\$ 1,881.43$ |

[^3]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 $^{1}$ | TOTAL |
| :---: | :---: | :---: | :---: |
| Service $^{2}$ |  |  | $\$ 0.00$ |
| Primary |  |  | $\$ 0.00$ |
| Secondary |  |  | $\$ 0.00$ |
| Initial Tree Trim |  |  | $\$ 0.00$ |
| Poles |  |  | $\$ 0.00$ |
| Transformers |  | $\$ 0.00$ | $\$ 0.00$ |
| Subtotal | $\$ 0.00$ |  | $\$ 0.00$ |
| Stores Handling ${ }^{3}$ |  | $\$ 0.00$ | $\$ 0.00$ |
| Subtotal | $\$ 0.00$ |  | $\$ 0.00$ |
| Engineering |  | $\mathbf{\$ 0 . 0 0}$ | $\mathbf{\$ 0 . 0 0}$ |
| TOTAL | $\mathbf{\$ 0 . 0 0}$ |  |  |

[^4]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 UNDERGROUND MATERIAL AND LABOR

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

| ITEM | MATERIAL | LABOR $^{1}$ | TOTAL |
| :---: | :---: | :---: | :---: |
| Service $^{2}$ |  |  | $\$ 0.00$ |
| Primary |  |  | $\$ 0.00$ |
| Secondary |  |  | $\$ 0.00$ |
| Transformers |  |  | $\$ 0.00$ |
| Pri. and Sec. Trenching |  |  | $\$ 0.00$ |
| Service Trenching |  | $\$ 0.00$ | $\$ 0.00$ |
| Subtotal | $\$ 0.00$ |  | $\$ 0.00$ |
| Stores Handling ${ }^{3}$ |  | $\$ 0.00$ |  |
| Subtotal | $\$ 0.00$ |  | $\$ 0.00$ |
| Engineering |  | $\$ 0.00$ |  |
| TOTAL | $\mathbf{\$ 0 . 0 0}$ | $\mathbf{\$ 0 . 0 0}$ | $\mathbf{\$ 0 . 0 0}$ |

[^5]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.



## AVERAGE UNDERGROUND FEEDER COSTS

Underground
\$/Ft.. $\qquad$

Overhead
\$/Ft... $\qquad$

Difference
\$/Ft... $\qquad$

With Favorable Trenching
\$/Ft... $\qquad$ \$/Ft... $\qquad$

Additional Trenching Cost*
(Difficult Trenching)
\$/Ft... $\qquad$ \$/Ft... $\qquad$

* Difficult trenching charges include underground cost of cable-in-conduit and rock trench adder.

Note: Above costs reflect adjustment of \$ $\qquad$ for overhead estimates and \$ $\qquad$ for underground estimates.

Feeder cost are not included in Tampa Electric "per lot" charges. Feeder installation policy addressed in Tampa Electric's Tariff Section 5 Subsection 3.4.1.1.

TAMPA ELECTRIC COMPANY

For Overhead and Underground

OVERHEAD UNDERGROUND

Operational Expense - Distribution
$\$ 63,394,096 \quad \$ 33,194,939$

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## JOINT TRENCHING WITH OTHER UTILITIES

In RESIDENTIAL DISTRIBUTION

2011-2020 ADDITIONS

|  |  | Total | Total |
| :---: | :---: | :---: | :---: |
|  |  | Amount Amount |  |
|  |  | Work | Due From |
|  |  | Oue To |  |
| Date | Order |  | Other | Other

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

| Year | Footage <br> Feet | Amount Due From <br> Other Utility | Amount Due To <br> 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 | $\$ 0.00$ | $\$ 0.00$ |
|  |  |  | $\$ 0.00$ |

LOW DENSITY MODEL
(210 lots)

| Underground Costs (per lot) |  |  |  |  | With overheads filed in rate case |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ITEM | MATERIAL |  | LABOR |  | total |  | EXPLANATION OF \% CHANGE |
|  | cost | \% CHANGE | cost | \% CHANGE | cost | \% 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\% |  |
|  |  |  |  |  | 1,129.27 | Net Prese Restoratio | nt Value of the Life Cycle Operational Cost Including Storm n and Lost Pole Attachment Revenue |
| Total with NPV Factor |  |  |  |  | 3,570.38 | Total Inclu | ding NPV of Operational Cost |

Overhead Costs (per lot)

| ITEM | MATERIAL |  | LABOR |  | TOTAL |  | EXPLANATION OF \% CHANGE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | cost | \% CHANGE | cost | \% CHANGE | cost | \% 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 handuing | 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\% |  |
|  |  |  |  |  | 1,868.48 | Net Present Value of the Life Cycle Operational Cost Including Storm Restoration and Lost Pole Attachment Revenue |  |
| Total with NPV Factor |  |  |  |  | 3,297.01 | Total Inclu | ding NPV of Operational Cost |

## Differential Costs (per lot)

| ITEM | MATERIAL |  | LABOR |  | TOTAL |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |

Includes NPV of Operational Cost


STAFF'S THIRD DATA REQUEST
REQUEST NO. 3b

UG Construction Cost Data Summary



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

625 kVA Transformers
837.5 kVA Transformers

1650 kVA Transformers
075 kVA Transformers
14003 Trench Feet of 1/0 AL Primary Cable 1803 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
1597 Trench Feet of 4/0 AL Secondary Cable
384 Existing trench feet of 4/0 AL Secondary Cable
0 Trench Feet of 500 MCM AL Secondary Cable
0 Existing trench feet of 500 MCM AL Secondary Cable 9233 Trench Feet of 2/0 AL Service Cable 5064 Existing trench feet of 2/0 AL Service Cable 1265 Trench Feet of 4/0 AL Service Cable 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


| Primary Trenching - Labor Only | Done by contractors |
| :--- | :--- |
| Qty | CU |
| Qto determine contractor labor cost on the Contractor Labor worksheet |  |
| 14003 | Trenching feet required for 2" primary conduit |
| 1803 | Existing trench feet used for 2" primary conduit |
| 14003 | Install Pulling Tape (blow in tape for pull - trench feet used to determine contractor cost) |

Work Request
Number
925017
Primary Conduit - Cost for Material only
Material used by contractors to install the conduit system

| Qty CU | Definition |
| :---: | :---: |
| 40 COND2G | Conduit, galvanized 2", 10 ' with coupling, for up terminal pole TEC \# 2004389 |
| 16156 COND2_SCHA | 2" PVC Schedule A conduit TEC \# 2004488 |
| 16506 MULE TAPE | Pulling tape - actual length - does not need any 5\% adder TEC \# 2007414 |
| 88 ELL2G90 | $2{ }^{2 \prime}$ elbow 90 galv 9.5" radius TEC \# 2004395 |
| 1 ELL2G45 | $2^{\prime \prime}$ elbow 45 galv 9.5" radius TEC \# 2004394 |
| 178 COUP2P | Coupling, 2" PVC (2 per elbow) TEC \# 2004507 |
| 33 GLUECONDF | 2"\& 3" pvc 1 qt for 500' fast dry |
| 3 HH1PHPRI | $1 \varnothing$ splice box (30" x 48" x 18"), UG GR\&S 6-21 |




## Estimate Summary

Design Number 1
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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: |  |  |  |

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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |  |
|  | $\$ 106,196.59$ |  | $\$ 0.00$ | $\$ 106,196.59$ |

Work Request Material Summary
***Includes Truck Stock***
Printed Date:3/10/2021
Dist: CSA
WR No. 924920
Page 1 of 1

| Material Number Description |  |  | Unit Price | Total Cos | Asse |
| :---: | :---: | :---: | :---: | :---: | :---: |
| INSTALL |  |  |  |  |  |
| 2 | 2003816 | ARRESTER, UD, 10KV PARKING L/A, 8.40 KVR | \$144.06 | \$288.12 | Y |
| 2 | 2003815 | ARRESTER, URD, 10KV ELBOW L/A, 8.40 KVRM | \$63.66 | \$127.32 | Y |
| 4 | 2003817 | ARRESTER, URD, 10KV, BUSHING L/A, 8.40KV | \$192.51 | \$770.04 | Y |
| 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" $\times$ 52" $\times 4$ " 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 | Y |
| 8 | 2001519 | TX,PM,LP,1P,37.5 kVA,240/120,FR3,SS | \$2,108.00 | \$16,864.00 | Y |
| 16 | 2001520 | TX,PM,LP,1P,50 kVA,240/120,FR3,SS | \$2,592.00 | \$41,472.00 | Y |
| 0 | 2001521 | TX,PM,LP,1P,75 kVA,240/120,FR3,SS | \$3,044.00 | \$0.00 | Y |
| 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 |  |

LD-10


# Estimate Summary 

Design Number 1
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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: | $\$ 0.00$ | $\$ 00$ | $\$ 0.00$ |
| ADDITIONAL ITEMS: |  |  |  |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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: | \$3,951.69 | \$0.00 | \$3,951.69 |

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).
LD-11

Work Request Material Summary
***Includes Truck Stock***
Printed Date: 3/10/2021
Dist: CSA
WR No. 924957
Page 1 of 1

| Material Number Description |  |  | Unit Price | Total Cost | Ass |
| :---: | :---: | :---: | :---: | :---: | :---: |
| INSTALL |  |  |  |  |  |
| 4 | 2003651 | ARRESTER, LIGHTNING DISTRIBUTION CLASS 8 | \$41.28 | \$165.12 | Y |
| 4 | 2077754 | BOLT, MACHINE 5/8" $\times 100$, 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 | Y |
| 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 $\times 8$ 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 $3 / 8 \times 3$ | \$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" $\times 1 / 8{ }^{\prime \prime}$ | \$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 |  |



## Estimate Summary

Design Number 1
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: | $\$ 0.00$ |  | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | $\$ 0.00$ | 0 |
| LABOR HOURS: | $\$ 0.00$ | 0 | $\$ 0.00$ |
| 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: |  |  | $\$ 0.00$ |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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: | \$48,492.40 | \$0.00 | \$48,492.40 |


| TECE <br> TAMFA KLEET |  | Work Request Material Summary <br> ***Includes Truck Stock*** <br> Design Number 1 | Printed Date:3/10/2021 <br> Dist: CSA <br> WR No. 925017 <br> Page 1 of 1 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Material Number |  | 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 | Y |
| 16156 | 2004488 | CONDUIT, PVC 2 IN 20 FT BELL END | \$1.03 | \$16,640.68 | Y |
| 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 | Y |
| 18157 | 2007414 | TAPE, PULLING, POLYSTER, RATED AT 1250\#, | $\$ 0.03$ | $\$ 544.70$ | N |
|  |  |  | Total | $\$ 22,475.04$ |  |



# Estimate Summary 

Design Number 1
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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: |  |  | $\$ 0$ |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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: | \$71,030.03 | \$0.00 | \$71,030.03 |



Work Request Material Summary
***Includes Truck Stock***
Design Number 1
Material Number
INSTALL

| 0 | 2004577 | ANCHOR, LEAD EXPANSION, MEDIUM DUTY, SIZ |
| ---: | :--- | :--- |
| 0 | 2003157 | BOLT, 1/2" - 13 X 1-1/2" 18-8 SS HEX HEA |
| 0 | 2003167 | BOLT, MACHINE GALV HEX HEAD 5/8 X 1-1/4" |
| 17554 | 2004343 | CABLE, ALUMINUM, 15KV, 1/C, 1/0 AWG SOLI |
| 4 | 2004514 | CAP, CONDUIT 2" |
| 4 | 2004453 | CAP, END CABLE 600 V CABLE RANGE .940 - |
| 4 | 2003752 | CLAMP, CONDUIT GROUND 1-1/4 IN - 2 IN CO |
| 0 | 2077906 | CLAMP, GROUND ROD, F/U/W 1/2"ROD |
| 80 | 2004488 | CONDUIT, PVC 2 IN 20 FT BELL END |
| 8 | 2077837 | CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0 |
| 0 | 2005009 | CONNECTOR, LDBRK 8.3/14.4KV 200A 3POS |
| 77 | 2077931 | CONNECTOR, VICE CU \#2 STR |
| 0 | 2077939 | COUPLER, GROUND ROD, F/U/W 1/2"ROD |
| 0 | 2004982 | ENCLOSURE, 200A AL SWITCH MOD/1 PH DUMMY |
| 61 | 2004642 | KIT, SEALING, CABLE ACCESSORY, 1/0 - 4/0 |
| 0 | 2001315 | PAD, CONCRETE 40" X 45" X 4" 25- 50KVA T |
| 0 | 2007394 | PADLOCK, GREEN, TESS, BRASS BODY, WR2 |
| 0 | 2007489 | REPELLENT, FIRE ANT GRANULE 4 OZ BIFENTH |
| 0 | 2077980 | ROD,GROUND,CU BONDED,1/2"X10',THREADLESS |
| 32 | 2004403 | STRAP, GALV 2 IN 2 HOLE |
| 61 | 2004883 | TERMINATOR, LOADBREAK 200 AMP, 1/0 SOL |
| 4 | 2004634 | TERMINATOR, POTHEAD, 1/0 TO 4/0, STEM |
| 0 | 2078005 | WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8 |
| 0 | 2078006 | WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8" |
| 8 | 2004184 | WIRE, COPPER, BARE, \#4 SOFT DRAWN 7 STR |

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WR No. 925022
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| $\$ 0.66$ | $\$ 0.00$ | N |
| ---: | ---: | ---: |
| $\$ 2.59$ | $\$ 0.00$ | N |
| $\$ 0.18$ | $\$ 0.00$ | N |
| $\$ 2.08$ | $\$ 33,192.64$ | Y |
| $\$ 12.21$ | $\$ 48.84$ | N |
| $\$ 1.96$ | $\$ 7.84$ | N |
| $\$ 7.92$ | $\$ 31.68$ | N |
| $\$ 1.80$ | $\$ 0.00$ | N |
| $\$ 1.03$ | $\$ 82.40$ | Y |
| $\$ 0.66$ | $\$ 5.28$ | N |
| $\$ 108.70$ | $\$ 0.00$ | N |
| $\$ 2.38$ | $\$ 183.26$ | N |
| $\$ 4.78$ | $\$ 0.00$ | N |
| $\$ 1,122.04$ | $\$ 0.00$ | Y |
| $\$ 9.46$ | $\$ 577.06$ | N |
| $\$ 103.25$ | $\$ 0.00$ | N |
| $\$ 21.24$ | $\$ 0.00$ | N |
| $\$ 2.77$ | $\$ 0.00$ | N |
| $\$ 13.72$ | $\$ 0.00$ | N |
| $\$ 0.28$ | $\$ 8.96$ | N |
| $\$ 37.76$ | $\$ 2,303.36$ | Y |
| $\$ 61.22$ | $\$ 244.88$ | Y |
| $\$ 0.23$ | $\$ 0.00$ | N |
| $\$ 0.24$ | $\$ 0.00$ | N |
| $\$ 0.63$ | $\$ 5.04$ | N |
| Total | $\$ 40,010.50$ |  |

LD-16


# 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: | $\$ 0.00$ | $\$ 0.00$ |  |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | $\$ 0.00$ |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | 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: | $\$ 0.00$ | $\$ 0.00$ |  |
| ADDITIONAL ITEMS: | $\$ 0.00$ |  |  |
| SUBTOTAL: |  |  |  |

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 |


| $\underset{\text { TECEB }}{ }$ | Work Request Material Summary <br> ***Includes Truck Stock*** |
| :---: | :---: |
|  |  |

Design Number 1
Material Number $\quad$ Description $\quad$ Unit Price Total Cost Asset?

INSTALL

| 0 | 2004351 | CABLE, CONVERSE, AL, UG, 600V, 2/C, 2/0, |
| ---: | :--- | :--- |
| 2605 | 2004354 | CABLE, SWEETBRIAR, AL,UG,600V,2/C,4/O AW |
| 0 | 2004356 | CABLE, XHHW-2,AL,UG,600V,2/C,500 MCM, 37 |
| 0 | 2005021 | CONNECTOR, 600V URD, 4 POSITION, CONDUCT |
| 0 | 2005022 | CONNECTOR, 600V URD, 6 POSITION, CONDUCT |
| 69 | 2005024 | CONNECTOR, 600V URD, 6 POSITION, CONDUCT |
| 0 | 2005025 | CONNECTOR, 600V, URD, 8 POSITION, CONDUC |
| 0 | 2005020 | CONNECTOR, URD 600 V 4 POSITION \#10-350M |
| 23 | 2000241 | DECAL,WARNING,NOTICE,CLEARANCE,10" X 7" |
| 23 | 2004714 | HANDHOLE, ABOVE GRADE, LARGE DOME |
| 23 | 2005212 | MARKER, CURB LEXAN .040 THICK, ROUND 2.5 |
| 23 | 2007395 | PADLOCK, RED BRASS BODY 1/4" BRASS SHACK |

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Total Cost Asset?

PADLOCK, RED BRASS BODY 1/4" BRASS SHACK

| $\$ 1.01$ | $\$ 0.00$ | Y |
| ---: | ---: | ---: |
| $\$ 1.39$ | $\$ 3,621.23$ | Y |
| $\$ 4.33$ | $\$ 0.00$ | Y |
| $\$ 16.25$ | $\$ 0.00$ | N |
| $\$ 14.92$ | $\$ 0.00$ | N |
| $\$ 23.41$ | $\$ 1,615.29$ | N |
| $\$ 30.35$ | $\$ 0.00$ | N |
| $\$ 10.92$ | $\$ 0.00$ | N |
| $\$ 3.56$ | $\$ 81.88$ | N |
| $\$ 186.22$ | $\$ 4,283.06$ | N |
| $\$ 2.83$ | $\$ 65.09$ | N |
| $\$ 22.97$ | $\$ 528.31$ | N |
| Total | $\$ 10,194.86$ |  |



# Estimate Summary 

Design Number 1
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. |
| :--- | :--- | :--- | :--- |

[^6]|  | Work Request Material Summary |
| :---: | :---: |
| TECB | Work Request Material Summary <br> ***Includes Truck Stock*** |

Design Number 1

Printed Date: 3/10/2021
Dist: CSA
WR No. 925026
Page 1 of 1

| Material Number |  | 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 | Y |
| 340 | 2004517 | CONDUIT, PVC P \& C 3 IN 20 FT | \$1.70 | \$578.00 | Y |
| 1871 | 2004529 | CONDUIT, PVC, 4" $\times 20$ ', DB-60-TC-6 | \$2.78 | \$5,201.38 | Y |
| 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 4090 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 |  |



## Estimate Summary

Design Number 1
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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: |  |  |  |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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 |


| TECE <br> TAMFA ELEST |  | Work Request Material Summary <br> ***Includes Truck Stock*** <br> Design Number 1 | Printed Date: 3/11/2021 <br> Dist: CSA <br> WR No. 925028 <br> Page 1 of 1 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Material Number |  | Description | Unit Price | Total Cost | Asset? |
| INSTALL |  |  |  |  |  |
| 17795 | 2004351 | CABLE, CONVERSE, AL, UG, 600V, 2/C, 2/0, | \$1.01 | \$16,338.77 | Y |
| 3883 | 2004354 | CABLE, SWEETBRIAR, AL,UG,600V,2/C,4/0 AW | \$1.39 | \$4,498.04 | Y |
|  |  |  | Total | \$23,370.30 |  |



# Estimate Summary 

Design Number 1
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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: | $\$ 0.00$ | $\$ 0.00$ |  |
| ADDITIONAL ITEMS: |  | $\$ 0.00$ |  |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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 |

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).
LD-23


## 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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: |  |  |  |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |  |
|  | $\$ 109,610.09$ | $\$ 0.00$ | $\$ 109,610.09$ |  |



Design Number 1

Printed Date: 3/10/2021
Dist: CSA
WR No. 925030
Page 1 of 1
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 | $\$ 1.03$ | $\$ 15,694.11$ | Y |
| 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 | $\$ 1.70$ | $\$ 5,305.70$ | Y |
| 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 |



STAFF'S THIRD DATA REQUEST
REQUEST NO. 3b

OH Construction Cost Data Summary


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 | 925037 | - Transformers (enter these Constuction Units into WorkPro) |  |  | ${ }_{\text {Stirup }}$ | ${ }_{\text {Spacer }}$ | GroundingGRDMEG $1 / 2$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 37.5 KVA | ${ }^{50 \mathrm{KVA}}$ | 75 KVA |  |  |  |
| Assemblies | PKT11 ${ }^{\text {3F }}$ | PKT11W4F | PKT11WSF | PKT11W6F |  |  |  |
| Total Quantities $\Rightarrow$ | 0 | 4 | 17 | 3 | 24 | 24 | 24 |


| Work Request \#2 | 925038 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \#2 AAAC | 1 1st span | Addl | Fused cutout | Deadend \& tap | 2 way lateral | Fuse | Grounding |
| Assemblies $=$ | wIOPA | wiolf | wiola | PKP102WB3A | PKPIOIWA3A | PKP105WA4A | OH103 | RDMEG1/2 |
| Total Quantities $=$ - | 10130 | 19 | 43 | 2 | 7 | 2 | 2 | 5 |


| Work Request | 92503 | - Poles and Guys |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Should be | Pole haul POLE HAUL | $\begin{gathered} 10 \text { tangent } \\ \text { STP101_TAN_40C2 } \end{gathered}$ | $\begin{gathered} 10 \text { tangent } \\ \text { STP101_TAN_45C2 } \end{gathered}$ | $1 \varnothing$ Deadend STP401 DE 40C2 | 10 angle $<20$ STP101 ANG 40C2 | $1 \varnothing$ angle $<20$ STP101 ANG 45C2 | $1 \varnothing$ angle $>20$ STP301 RC 40C2 | $1 \varnothing$ angle $>20$ STP301 RC 45C2 | $\begin{gathered} 3 \boldsymbol{3} \\ \text { STP104 TAN 45C2 } \end{gathered}$ | Down guys <br> PKG12W2H | Pole hardware PKG31W1H | Guy wire | Down guys |
| Total Quantities $=$ > | 65 | 12 | , | 11 | 20 | A | 17 | - | -2-52 | ${ }_{56}$ | ${ }_{2}$ | 70 |  |



| More of Work Request 44 | - Secondary continued - From Secondary\&Neutral worksheet and SlackSecondary (service cable) \& Secondary Poles worksheet |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pole hardware <br> PKG31W1H | Guy wire GUYSTR $3 / 8$ | pole haul | 35' Class 4 STS11C | 35' Class 6 STSIIB | $30^{\prime}$ Class 6 <br> STS11A | Down guy <br> PKG11W1H |  |  |  |  |
| Total Quantities $=$ - | 16 | 1390 | 35 | 35 |  |  | , | 34 | 1515 | 545 | 34 |


| Work Request \#5 <br> Assemblies $\qquad$ $\qquad$ <br> Total Q | 926547 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $\underset{9360}{\text { CA20TPX }}$ | $\underset{0}{\text { CA4/OTPX }}$ | $\underset{0}{\text { sVLABOR }}$ | $\underset{210}{\text { METERLABOR }}$ |



# Estimate Summary 

Design Number 1
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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: |  |  | $\$ 0.00$ |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |  |
|  | $\$ 72,373.69$ | $\$ 0.00$ | $\$ 72,373.69$ |  |

Work Request Material Summary
***Includes Truck Stock***
Design Number 1

| Material Number |  | - Description | Unit Price | Total Cost | Asset? |
| :---: | :---: | :---: | :---: | :---: | :---: |
| InStaLL |  |  |  |  |  |
| 24 | 2003646 | ARRESTER, DISTRIBUTION, 10KV, 8.4 KV MCOV | \$39.68 | \$952.32 | Y |
| 24 | 2077754 | BOLT, MACHINE 5/8" ${ }^{\text {X } 10 ", \text { GALV. FULL }}$ | \$1.04 | \$24.96 | N |
| 48 | 2077755 | BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT | \$1.16 | \$55.68 | N |
| 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 | N |
| 312 | 2004197 | CABLE, HANDCOIL, COPPER, 600V, 2/0 AWG, | \$2.32 | \$723.84 | N |
| 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 | N |
| 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 | N |
| 6 | 2003528 | CONNECTOR, 2-BOLT AL MAIN 336-500MCM TAP | \$25.78 | \$154.68 | N |
| 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 | Y |
| 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 $1 / 2 \mathrm{IN} \times 8 \mathrm{FT}$ | \$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 $16{ }^{\prime \prime}$ | \$2.65 | \$63.60 | N |
| 24 | 2077789 | SCREW, LAG PILOT POINT $3 / 8 \times 3$ | \$0.27 | \$6.48 | N |
| 24 | 2077812 | SPACER, CABLED SECONDARY | \$6.79 | \$162.96 | N |
| 240 | 2077997 | StAPLE, SECURES $1 / 2^{\prime \prime}$ 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, $37.5 \mathrm{kVA}, 7.62 / 13.2 \mathrm{Y}, 120 / 240, \mathrm{FR} 3$ | \$1,253.83 | \$5,015.32 | Y |
| 17 | 2001369 | TX,OH,50 kVA, 7.72/13.2Y,120/240,FR3 | \$1,463.60 | \$24,881.20 | Y |
| 3 | 2001370 | TX,OH,75 kVA, $7.62 / 13.2 \mathrm{Y}, 120 / 240, \mathrm{FR} 3$ | \$1,924.56 | \$5,773.68 | Y |
| 120 | 2078006 | WASHER, FLAT, GALVANIZED, 2" $\times 2$ " $\times 1 / 8{ }^{\prime \prime}$ | \$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 |  |



# Estimate Summary 

Design Number 1
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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: |  |  | $\$ 0.00$ |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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: | $\$ 15,815.51$ | $\$ 0.00$ | $\$ 15,815.51$ |  |


| 5 | 2003646 | ARRESTER, DISTRIBUTION, 10KV, 8.4KV MCOV | $\$ 39.68$ | $\$ 198.40$ | Y |
| ---: | ---: | :--- | ---: | ---: | ---: |
| 9 | 2077739 | BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED | $\$ 3.12$ | $\$ 28.08$ | N |
| 7 | 2077754 | BOLT, MACHINE 5/8" X 10", GALV. FULL | $\$ 1.04$ | $\$ 7.28$ | N |
| 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" | $\$ 25.98$ | $\$ 51.96$ | N |
| 2 | 2004660 | BRACKET,"L" 5-5/8"IN LENGTH FOR MTG CUTO | $\$ 10.41$ | $\$ 20.82$ | N |
| 18 | 2077818 | CLAMP, DEADEND ACSR OR AAC \#2-4/0OR .30- | $\$ 9.12$ | $\$ 164.16$ | N |
| 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 | $\$ 5.73$ | $\$ 91.68$ | N |
| 10637 | 2004331 | CONDUCTOR, BARE OVERHEAD, 2 AWG, AAAC, 7 | $\$ 0.15$ | $\$ 1,595.48$ | Y |
| 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 | $\$ 70.74$ | $\$ 141.48$ | Y |
| 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 | $\$ 7.60$ | N |  |
|  |  |  | Total | $\$ 3,368.37$ |  |

Work Request Material Summary
***Includes Truck Stock***
Design Number 1

## Material Number

$\frac{\mathrm{N}}{\text { INSTALL }}$

## INSTALL

Printed Date:3/10/2021
Dist: CSA
WR No. 925038
Page 1 of 1


# Estimate Summary 

Design Number 1
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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: |  |  |  |

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: | $\$ 106,815.56$ | $\$ 0.00$ | $\$ 106,815.56$ |

Work Request Material Summary
***Includes Truck Stock***
Design Number 1
Printed Date:3/10/2021
Dist: CSA
WR No. 925039
Page 1 of 1

| Material Number Description |  |  | Unit Price | Total Cost | Asset? |
| :---: | :---: | :---: | :---: | :---: | :---: |
| INSTALL |  |  |  |  |  |
| 56 | 2003632 | ANCHOR,SCRW GALV 10" WING 1-1/4" ROD 8" | \$48.15 | \$2,696.40 | N |
| 37 | 2077739 | BOLT, EYE, $5 / 8 \mathrm{IN} . \mathrm{X} 10 \mathrm{IN} .$, 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" $\times 10$ ", GALV. FULL | \$1.04 | \$70.72 | N |
| 40 | 2077753 | BOLT, MACHINE 5/8" $\times$ 8', GALV. | \$1.05 | \$42.00 | N |
| 2 | 2077780 | BOLT, SPOOL, 5/8" $\times 10$ ", 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 $5 / 8 \mathrm{IN}$ 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 726 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 | Y |
| 5 | 2002858 | POLE, WOOD, 45 FT CLASS 2, CCA TREATED. | \$323.31 | \$1,616.55 | Y |
| 31 | 2077767 | ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16" | \$2.65 | \$82.15 | N |
| 114 | 2077790 | SCREW, LAG 1/2" $\times 4$ ", 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" $\times 3$ " | \$1.22 | \$139.08 | N |
| 221 | 2078006 | WASHER, FLAT, GALVANIZED, 2" X 2" $\times 1 / 8{ }^{\prime \prime}$ | \$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 |  |

LD-35


# Estimate Summary 

Design Number 1
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 TON 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: | $\$ 0.00$ |  | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: |  |  |  |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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 |

Work Request Material Summary
Design Number 1
Material Number

| M |
| ---: |
| NSTALL |


| 8 | 2003632 | ANCHOR,SCRW GALV 10" WING 1-1/4" ROD 8" |
| ---: | :--- | :--- |
| 34 | 2077739 | BOLT, EYE, 5/8 IN. X 10 IN., GALVANIZED |
| 24 | 2077764 | BOLT, MACHINE 3/4" X 12", GALV |
| 8 | 2077755 | BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT |
| 8400 | 2004339 | CABLE, OVERHEAD SECONDARY, TRIPLEX, 4/0 |
| 1591 | 2004364 | CABLE, SERVICE DROP AL 2-2/0 \& 1-1/0 NEU |
| 627 | 2004366 | CABLE, SERVICE DROP AL 2-4/0 \& 1-2/0 NEU |
| 64 | 2077818 | CLAMP, DEADEND ACSR OR AAC \#2-4/0OR .30- |
| 2242 | 2004331 | CONDUCTOR, BARE OVERHEAD, 2 AWG, AAAC, 7 |
| 192 | 2077839 | CONNECTOR, COMPRESSION H-BLOCK ACSR 1/0- |
| 30 | 2077837 | CONNECTOR, COMPRESSION H-BLOCK ACSR 2/0 |
| 30 | 2077931 | CONNECTOR, VICE CU \#2 STR |
| 128 | 2003516 | COVER, SNAP-ON SQUEEZON CONNECTOR D DIE |
| 8 | 2003636 | EXTENSION ROD, ANCHOR 1-1/4 X 72 6 FT |
| 32 | 2077949 | GRIP,GUY,FORMED WIRE DEADEND,3/8"EHS |
| 24 | 2077951 | HOOK, GUY |
| 16 | 2077961 | INSULATOR, STRAIN FIBERGLASS 36 IN 15,00 |
| 8 | 2077979 | MARKER, GUY WIRE PLASTIC 8' IN LENGTH CO |
| 46 | 2077783 | NUT, EYE, STANDARD, 1-1/2" GALVANIZED FO |
| 0 | 2002836 | POLE, WOOD 30 FT CLASS 6 CCA TREATED NO |
| 35 | 2002842 | POLE, WOOD, 35 FT, CLASS 4, CCA TREATED. |
| 35 | 2077767 | ROLLED BOLT, DOUBLE-ARMING, 5/8"X 16" |
| 24 | 2077790 | SCREW, LAG 1/2" X 4", GALV., TWIST DRIVE |
| 35 | 2077812 | SPACER, CABLED SECONDARY |
| 24 | 2078002 | WASHER, CURVED, MALLEABLE, 3" X 3" |
| 108 | 2078006 | WASHER, FLAT, GALVANIZED, 2" X 2" X 1/8" |
| 105 | 2078014 | WIRE, ALUMINUM, TIE, \#4 BARE ANNEALED |
| 60 | 2004184 | WIRE, COPPER, BARE, \#4 SOFT DRAWN 7 STR |
| 1726 | 2005879 | WIRE,GUY,EHS STEEL,GALV,3/8",15.4K RBS |

INSTALL

Printed Date: 3/10/2021
Dist: CSA
WR No. 925040
Page 1 of 1


# Estimate Summary 

Design Number 1
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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: | $\$ 0.00$ | $\$ 0.00$ |  |
| ADDITIONAL ITEMS: |  | $\$ 0.00$ |  |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |  |
|  | $\$ 31,081.84$ | $\$ 0.00$ | $\$ 31,081.84$ |  |

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).
LD-38


4/2021
HIGH DENSITY MODEL
(176 lots)

| ITEM | MATERIAL |  | LABOR |  | TOTAL |  | EXPLANATION OF \% CHANGE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | cost | \% CHANGE | COST | \% ChANGE | cost | \% 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\% |  |
|  |  |  |  |  | 528.93 | Net Present Value of the Life Cycle Operational Cost Including Storm Restoration and Lost Pole Attachment Revenue |  |
| Total with NPV Factor |  |  |  |  | 2,410.36 | Total Includ | ing NPV of Operational Cost |


| ITEM | MATERIAL |  | LABOR |  | TOTAL |  | EXPLANATION OF \% CHANGE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | cost | \% CHANGE | cost | \% CHANGE | COST | \% 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\% |  |
|  |  |  |  |  | 1,387.02 | Net Present Value of the Life Cycle Operational Cost Including Storm Restoration and Lost Pole Attachment Revenue |  |
| Total with NPV Factor |  |  |  |  | 2,508.67 | Total Including NPV of Operational Cost |  |

## Differential Costs (per lot)

| ITEM | MATERIAL |  | LABOR |  | TOTAL |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | COST | \% CHANGE | COST | \% CHANGE | COST | \% CHANGE |
|  | 315.14 | $74.92 \%$ | 444.64 | $7.15 \%$ | 759.78 | $27.66 \%$ |
| NPV amount |  |  |  |  | -858.09 |  |
| Differential $^{ }$(per lot) |  |  |  |  | -98.31 | $-85.66 \%$ |

Includes NPV of Operational Cost



| 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 - 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<br>804 Total peak demand KVA<br>025 kVA Transformers<br>2037.5 kVA Transformers<br>050 kVA Transformers<br>075 kVA Transformers<br>5655 Trench Feet of 1/0 AL Primary Cable<br>0 Existing trench feet of 1/0 AL Primary Cable<br>0 Trench Feet of $2 / 0$ AL Secondary Cable<br>0 Existing trench feet of $2 / 0$ AL Secondary Cable<br>1301 Trench Feet of 4/0 AL Secondary Cable<br>200 Existing trench feet of 4/0 AL Secondary Cable<br>Trench Feet of 500 MCM AL Secondary Cable<br>0 Existing trench feet of 500 MCM AL Secondary Cable<br>9044 Trench Feet of 2/0 AL Service Cable<br>4464 Existing trench feet of 2/0 AL Service Cable<br>0 Trench Feet of 4/0 AL Service Cable<br>0 Existing trench feet of 4/0 AL Service Cable<br>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

# TAMPA ELECTRIC COMPANY <br> DOCKET NO. 20210064-EI <br> STAFF'S THIRD DATA REQUEST <br> REQUEST NO. 3b 

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. $\square<===$ Blue shading indicates fields to be updated.




| Work Request |  |  |  |
| :---: | :---: | :---: | :---: |
| 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, $1 \mathrm{ph} 1 / 0-4 / 0$ above grade, 400a |  |
| 5655 | CA1/0CN1CAL | cable, 1/0AL concentric neutral 15 kV includes labor - round up to | 6524.1 |
|  | wiu1f | labor to pull ug cable in conduit |  |



Nork Request
Number
925098

205512000
58755522000 50955853530 485512220
85512210 1125522180 12 gluecondf

Primary Conduit - Material Only
Material used by contractors to install the conduit system

## Definition

## 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 $2^{\prime \prime}$ secondary conduit 0 Existing trench feet used for $2^{\prime \prime}$ secondary conduit
71 Trenching feet required for $3^{\prime \prime}$ secondary conduit
200 Existing trench feet used for $3^{\prime \prime}$ 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 <br> Number |  |  |
| :---: | :---: | :--- |
|  | Qty | Secondary Cable \& Hand Holes |
| Qty103 | CU | Definition |

0 wiu3sb $\quad$ 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
0 wiu3sn $\quad$ 2c 500 1c 350 neutral, 600 v - added $5 \%$ here
0 insbus350/4 crab 4 position up to 350 mcm
0 insbus350/6 crab 6 position up to 350 mcm
0 insbus500/4 crab 4 position up to 500 mcm
66 insbus500/6 crab 6 position up to 500 mcm
0 insbus500/8
0 wiu1f
22 svhottx
22 svhothh
0 hhsec
22 HH LARGE PE secondary h/h 14"x18" large pedestal, 5 to $72 / 0$ or $4 / 0$ svc w/ $4 / 0$ or 500 sec (any time 500 u


Service Trenching - Labor Only - Done By Contractors
Used to determine contractor labor cost on the Contractor Labor worksheet
Qty $\quad$ CU $\quad 176$ 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
822 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
Qty

| Qty CU | Definition |
| :--- | :--- |
| 15268 wiussb | 2c $2 / 0 \& 1 c 1$ neutral, 600 v service cable |

16031.4

0 wiu3sc $\quad 2 c 4 / 0 \& 1 c 2 / 0$ neutral, 600 v service cable
0

| Work Request |  |  |
| :---: | :---: | :---: |
| 15268 | Number | Service Conduit Material Only |
|  | 925110 | Material used by contractors to install the conduit system |
| Qty | CU | Definition |
| 5280 Conduit for 2" service on private property-service contract |  |  |
| 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) |  |  |
| $\begin{array}{r} 15268 \\ 448 \end{array}$ | 5522000 | Total 2" conduit for work order quantity |
|  | 5522220 | 2" elbow 90 PVC 9.5" radius |
| 0 | 5522210 | 2" elbow 45 PVC 9.5" radius |
| 176 | 5512260 | 2 " galvanized Lock Nut |
| 176 | 5522030 | 2" Flexible PVC conduit |
| 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 $3^{\prime \prime}$ service installed by primary contractor |  |  |
| 0 Pulling Tape installed in $3^{\prime \prime}$ conduit by Primary Contractor) |  |  |
| 05523000 |  | Total $3^{\prime \prime}$ conduit for work order quantity |
| 05523220 |  | 3 " elbow 90 PVC 13" radius |
| 05523210 |  | 3 " elbow 45 PVC 13" radius |
| 05512770 |  | 2-1/2" house riser |
| 05523220 |  | 3" elbow 90 PVC 13" radius at house riser |
| 05512670 |  | 2-1/2" galvanized Lock Nut Used by contractors to install conduit system |
| 05523030 |  | 3" Flexible PVC conduit |
| 05521000 |  | 2-1/2"PVC Adapter, male thread/female slip |
| 05523180 |  | Coupling, 3" PVC (2 per elbow) |
| 31 gluecondf |  | $2 " \& 3$ " pvc 1 qt for 500' fast dry |
| 11748 | 5853530 | Total Pulling Tape installed in conduit by Primary Contractor) |



# Estimate Summary 

Design Number 1
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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: |  |  | $\$ 0.00$ |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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: | \$59,112.04 | \$0.00 | \$59,112.04 |


| TECB | Work Request Material Summary |
| :---: | :---: |

Design Number 1
Description
Material Number
INSTALL

| 1 | 2004816 | BUSHING, PARKING, 15KV, INSULATED |  | $\$ 38.70$ | $\$ 38.70$ |
| ---: | ---: | :--- | ---: | ---: | ---: |
| 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 | $\$ 2,108.00$ | $\$ 42,160.00$ | Y |
| 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 |



# Estimate Summary 

Design Number 1
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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: |  |  |  |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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 |

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).
HD-11

| TECC <br> TAMFNA ELEET |  | Work Request Material Summary <br> ***Includes Truck Stock*** <br> Design Number 1 | Printed Date: 3/11/2021 <br> Dist: CSA <br> WR No. 925095 <br> Page 1 of 1 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Material Number |  | Description | Unit Price | Total Cost | 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 |  |



# Estimate Summary 

Design Number 1
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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: | $\$ 0.00$ | $\$ 0.00$ |  |
| ADDITIONAL ITEMS: |  |  | $\$ 0.00$ |
| SUBTOTAL: | $\$ 0.00$ |  |  |

TRANSFER:

| LABOR HOURS: | 0 | 0 | 0 |
| :---: | :---: | :---: | :---: |
| LABOR COST: | \$0.00 | \$0.00 | \$0.00 |
| OVERHEAD: | \$0.00 | \$0.00 | \$0.00 |
|  | \$0.00 | \$0.00 | \$0.00 |
| VEHICLE: | \$0.00 | \$0.00 | \$0.00 |
| CONTRACTOR: | \$0.00 | \$0.00 | \$0.00 |
| ADDITIONAL ITEMS: | \$0.00 | \$0.00 | \$0.00 |
| SUBTOTAL: | \$0.00 | \$0.00 | \$0.00 |
| TOTALS: | \$1,553.12 | \$0.00 | \$1,553.12 |

Work Request Material Summary
***Includes Truck Stock***
Design Number 1

Printed Date: $3 / 11 / 2021$
Dist: CSA
WR No. 925096
Page 1 of 1

| Material Number |  |  | Description | Unit Price | Total Cost Asset? |
| ---: | ---: | :--- | ---: | ---: | ---: |
| INSTALL |  |  |  |  |  |
|  | 2003651 | ARRESTER, LIGHTNING DISTRIBUTION CLASS 8 | $\$ 41.28$ | $\$ 82.56$ | Y |
| 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 | $\$ 70.74$ | $\$ 141.48$ | Y |
| 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 |

HD-14


# Estimate Summary 

Design Number 1
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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: | $\$ 0.00$ |  | $\$ 0.00$ |
| ADDITIONAL ITEMS: | $\$ 0.00$ |  |  |
| SUBTOTAL: |  |  |  |

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 |

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).



# Estimate Summary 

Design Number 1
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

| INSTALLATION: | Capital | Oper./Maint. | Total |
| :--- | :--- | :--- | :--- |
| 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 |
| LABOR COST: | $\$ 0.05$ | $\$ 0.00$ | $\$ 0.05$ |
| OVERHEAD: | $\$ 0.07$ | $\$ 0.00$ | $\$ 0.07$ |
| VEHICLE: | $\$ 0.12$ | $\$ 0.00$ | $\$ 0.12$ |
| CONTRACTOR: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| ADDITIONAL ITEMS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| SUBTOTAL: | $\$ 9,516.40$ | $\$ 0.00$ | $\$ 0.00$ |
| REMOVAL: | $\$ 0.00$ | $\$ 9.516 .40$ |  |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | $\$ 0.00$ |  |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | 0 |
| LABOR COST: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| VEHICLE: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| CONTRACTOR: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| ADDITIONAL ITEMS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | $\$ 9,516.40$ | $\$ 0.00$ | $\$ 9,516.40$ |


| TECC <br> TAMFA FLECT |  | Work Request Material Summary <br> ***Includes Truck Stock*** <br> Design Number 1 | Printed Date: 3/11/2021 <br> Dist:CSA <br> WR No. 925098 <br> Page 1 of 1 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Material Number |  | Description | Unit Price | Total Cost | 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 | Y |
| 5935 | 2004488 | CONDUIT, PVC 2 IN 20 FT BELL END | \$1.03 | \$6,113.05 | Y |
| 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 |  |



# Estimate Summary 

Design Number 1
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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: |  |  | $\$ 0.00$ |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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: | $\$ 29,118.36$ | $\$ 0.00$ | $\$ 29,118.36$ |  |

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).


Design Number 1
Description
Material Number

| M |
| ---: |
| NSTALL |


| 6304 | 2004343 | CABLE, ALUMINUM, 15KV, 1/C, 1/0 AWG SOLI | $\$ 2.08$ | $\$ 13,112.53$ | Y |
| ---: | ---: | :--- | ---: | ---: | ---: |
| 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 | $\$ 1.03$ | $\$ 0.00$ | Y |
| 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 | $\$ 37.76$ | $\$ 1,510.40$ | Y |
| 2 | 2004633 | TERMINATOR, POTHEAD 15KV OUTDOOR 1/0 JCN | $\$ 35.75$ | $\$ 71.50$ | Y |
| 4 | 2004184 | WIRE, COPPER, BARE, \#4 SOFT DRAWN 7 STR | $\$ 0.63$ | $\$ 2.52$ | N |



Estimate Summary<br>Design Number 1<br>Dist Svcs<br>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: | $\$ 0.00$ |  | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: |  |  |  |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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 |

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).

| TECE <br> TAMFA ELEET |  | Work Request Material Summary <br> ***Includes Truck Stock*** <br> Design Number 1 | Printed Date: 3/11/2021 <br> Dist:CSA <br> WR No. 925103 <br> Page 1 of 1 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Material Number |  | Description | Unit Price | Total Cost | Asset? |
| INSTALL |  |  |  |  |  |
| 2029 | 2004354 | CABLE, SWEETBRIAR, AL,UG,600V,2/C,4/0 AW | \$1.39 | \$2,820.59 | Y |
| 45 | 2005022 | CONNECTOR, 600 V 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" $\times 7$ " | \$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 |  |

    TEACB
    Contact Name:

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 |

$\underset{\text { TAmpa }}{\underset{\text { кLketmic }}{ } \mid \text { Work Request Material Summary }}$

Material Number
Description
Design Number 1
Printed Date: 3/11/2021
Dist: CSA
WR No. 925104
Page 1 of 1

| Material Number 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 | Y |
| 1410 | 2004529 | CONDUIT, PVC, 4" $\times 20$ ', DB-60-TC-6 | \$2.78 | \$3,919.80 | Y |
| 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 |  |



Estimate Summary<br>Design Number 1<br>Dist Svcs<br>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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: |  |  | $\$ 0.00$ |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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: | $\$ 18,662.76$ | $\$ 0.00$ | $\$ 18,662.76$ |  |




# Estimate Summary 

Design Number 1
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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| LABOR HOURS: | 35.00 | $\$ 0.00$ | $\$ 0.00$ |
| LABOR COST: | $\$ 1,552.59$ | 0 | 35.27 |
| OVERHEAD: | $\$ 2,057.18$ | $\$ 0.00$ | $\$ 1,552.59$ |
|  | $\$ 3,609.77$ | $\$ 0.00$ | $\$ 2,057.18$ |
| VEHICLE: | $\$ 0.00$ | $\$ 0.00$ | $\$ 3,609.77$ |
| CONTRACTOR: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| ADDITIONAL ITEMS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| SUBTOTAL: | $\$ 3,609.77$ | $\$ 0.00$ | $\$ 0.00$ |
| REMOVAL: | $\$ 0.00$ | $\$ 3,609.77$ |  |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | $\$ 0.00$ | $\$ 0.00$ |
| LABOR HOURS: | $\$ 0.00$ | 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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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 |



Estimate Summary<br>Design Number 1<br>Dist Svcs<br>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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: | $\$ 0.00$ | $\$ 00$ |  |
| ADDITIONAL ITEMS: | $\$ 0.00$ |  |  |
| SUBTOTAL: |  |  |  |

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 |


| TECE <br> TAMFA ELEET |  | Work Request Material Summary <br> ***Includes Truck Stock*** <br> Design Number 1 | Printed Date: 3/11/2021 <br> Dist: CSA <br> WR No. 925110 <br> Page 1 of 1 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Material Number |  | 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 | Y |
| 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 4090 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

| Line \# | A ${ }_{\text {A }}^{\text {Work Type/WR\# }}$ | B Description | C $\left.\begin{array}{c}(\mathrm{D}+\mathrm{M}) \\ \text { Material and } \\ \text { Handling }\end{array}\right]$ | $\underbrace{\text { D }}$ | $\begin{gathered} \mathrm{E} \\ (\mathrm{~F}+\mathrm{L}) \\ \text { Total Labor } \\ \text { Plus Vehicles } \\ \hline \hline \end{gathered}$ | $\begin{gathered} \text { F } \\ (\mathrm{G}+\mathrm{H}+\mathrm{I}) \end{gathered}$ | G | $\begin{gathered} \mathrm{H} \\ \text { ( } \mathrm{G} \times \mathrm{J} \times \mathrm{TLF} \text { ) } \\ \text { Operations Labor } \\ \text { Overheads } \end{gathered}$ | $\begin{gathered} \text { I } \\ \text { (G×K×CLF) } \\ \text { Contract Labor } \\ \text { Overheads } \\ \hline \hline \end{gathered}$ |  |  | L |  | N (C+E) Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Transformers |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 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 |
| 4 | Primary |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 925112 | Install Primary Line | 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 |
| 6 |  | includes Grounding Primary Takeoffis |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | Poles |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | 925113 | Install Poles and Guy Stubs | 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 |
| 9 |  | Includes Haul Poles Out |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | Secondary |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | 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 |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | Services |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | 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 | 927163 | Install Meters | 17,751.95 | \$15,818.88 | 3,314.51 | 2,666.48 | 1,552.59 | 989.31 | 124.58 | 60\% | 40\% | 648.03 | 1,933.07 | 21,066.46 |
| 16 |  |  | 28,094.16 | 25,034.90 | 16,161.95 | 14,156.48 | 8,242.78 | 5,252.30 | 661.40 |  |  | 2,005.47 | 3,059.26 | 44,256.11 |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & 18 \\ & 19 \end{aligned}$ | Engineering | Design/Inspection/Coordination | - | - | 10,785.62 |  | - | - | - | 100\% | 0\% |  | - | 10,785.62 |
| 20 | Tree Trim |  | - | - | - | - | - | - | - |  |  | - | - | - |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | Totals (Sum of lines 2 | 2, 5, 8, 11, 16, 18, and 20) | 97,011.84 | 86,447.91 | 100,401.14 | 79,849.06 | 46,493.07 | 29,625.38 | 3,730.60 |  |  | 9,766.45 | 10,563.93 | 197,412.98 |
| 23 | Cost "Per Lot" (Line 3 | 4/176 lots) | 551.20 |  | 570.46 |  |  |  |  |  |  |  |  | 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 225 kVA Transformers
537.5 kVA Transformers

750 kVA Transformers
275 kVA Transformers
0100 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 +2 | 225112 - Primary |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \#2 AAAC WIOPA | 1st span WIO2F | Additional wio2a | 1stspan WIolF | Additional <br> WIO1A | ${ }_{\text {Fused dututs }}^{\substack{\text { PKP2osWB3A }}}$ | $\underset{\text { DE }}{\text { DKPIOIWABA }}$ | $\underbrace{\text { Fise }}_{\text {FLoflios }}$ | $\underset{\text { GrDMEGI/2 }}{ }$ |
| Total Ouanties $\Rightarrow$ | 6165 | 1 | 7 | 3 | 32 | 1 | 4 | 2 | 3 |


| Work Request \#3 Should be $\qquad$ <br> Assemblies $\qquad$ | 25113 - Poles and Guys |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Pole haul | 29 Deadend | 28 tangent | 29 Corner | 19 Deadend | 19 angle $<20$ | ngle 20 | Tangen | 18 angle $>20$ | 30 | Down guys | Pole hardware | Guy |
|  | POLE haUL | STP402_DE_40C2 | STP103_TAN_40C2 | STP302_RC_40C2 | STP401_DE_40C2 | STP101_ANG_40C2 | STP101_ANG_45C2 | STP101_TAN_40C2 | STP301_RC_40C2 | STP 104EAB | PKG12W2H | PKG31W1H | YSTR3/8 |
|  | 44 | 1 | $6^{6}$ | 1 | 4 | -5 | - | 13 | 11 |  | 29 | 4 | 340 |


| Work Request 44 | 925114 | dary - Fro | ral w |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Assemblies $\longrightarrow$ | 33' CL 4 STSUI | POLE Hall | ${ }^{2 / 0}$ | ${ }^{\text {4/0 }}$ | \#2 Neutral | ${ }_{\text {WIocF }}^{\text {Labor }}$ | ${ }_{\text {Labor }}^{\text {LIOCA }}$ | Eyebolt | $\underset{\substack{\text { Eyenut } \\ \text { SEGIDEN }}}{ }$ | DE + Bolt PKSılw | CABLEOPEN | Pole hardware PKG31w1H | Guy wire YYSTR3/8 |
| Total Quantities $\Rightarrow$ | 0 | ${ }_{0}$ | 5155 | , | 225 | , | 37 | 硡 | SEGDEN | Pksto | ${ }_{14}$ | (1) | 565 |


| More of Work Request \#4 |  | - Secondary continued - From Secondary\&Neutral worksheet and SlackSecondary (service cable) \& Secondary Poles worksheet |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $33^{\prime}$ Class 4 | Deadend | Clamp | $2 / 0$ triplex | 40 triplex | ${ }^{0}$ | Down guys | Pole hardware |  |
| Assemblies | POLE_haUL | STS11C | PKS21G | CLMIISPPAN | CA20TPX | CA40TPX | svLabor | PKG11W1H | PKG31W1H | UYSTR3/8 |
| Total Quantities $\Rightarrow$ | 19 | 19 | 35 | 3 | 965 | 0 | 19 | 1 | 2 | 50 |


| Work Request 45 | 927142 - Services |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $2 / 0$ triplex | $4 / 0$ triplex | Clamp |  |
| Assemblies | CA2/0TPX | CA4/0TPX | CLMIISPPAN | SVLabor |
| Quantities | 8960 | 0 | 26 | 0 |


| Work Request \#5 | 927163 | - Set Meter |
| :--- | :---: | :--- |
| Assemblies <br> Quanties | METERLABOR <br> 176 |  |



# Estimate Summary 

Design Number 1
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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: |  |  | $\$ 0.00$ |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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 |

Work Request Material Summary
***Includes Truck Stock ${ }^{* * *}$
Design Number 1

| Material Number |  | Description | Unit Price | Total Cost | Asset? |
| :---: | :---: | :---: | :---: | :---: | :---: |
| INSTALL |  |  |  |  |  |
| 16 | 2003646 | ARRESTER, DISTRIBUTION, $10 \mathrm{KV}, 8.4 \mathrm{KV}$ MCOV | \$39.68 | \$634.88 | Y |
| 14 | 2077754 | BOLT, MACHINE 5/8" $\times 10$ ", GALV. FULL | \$1.04 | \$14.56 | N |
| 32 | 2077755 | BOLT,MACHINE,SQ HEAD,5/8"X12",ONE SQ NUT | \$1.16 | \$37.12 | N |
| 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\#\# 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 | r |
| 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 $1 / 2 \mathrm{IN} \times 8 \mathrm{FT}$ | \$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 $\times 3$ | \$0.27 | \$4.32 | N |
| 16 | 2077812 | SPACER, CABLED SECONDARY | \$6.79 | \$108.64 | N |
| 140 | 2077997 | StAPLE, SECURES $1 / 2^{\prime \prime}$ PVC MOULDING TO WOO | \$0.27 | \$37.80 | N |
| 2 | 2001367 | TX,OH, $25 \mathrm{kVA}, 7.62 / 13.2 \mathrm{Y}, 120 / 240, \mathrm{FR} 3$ | \$1,046.46 | \$2,092.92 | r |
| 5 | 2001368 | TX,OH,37.5 kVA,7.62/13.2Y,120/240,FR3 | \$1,253.83 | \$6,269.15 | Y |
| 7 | 2001369 | TX,OH,50 kVA,7.62/13.2Y,120/240,FR3 | \$1,463.60 | \$10,245.20 | Y |
| 2 | 2001370 | TX,OH,75 kVA,7.62/13.2Y,120/240,FR3 | \$1,924.56 | \$3,849.12 | Y |
| 80 | 2078006 | WASHER, FLAT, GALVANIZED, 2" 2 2" $\times 1 / 8{ }^{\prime \prime}$ | \$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 |
|  |  |  | Total | \$27,751.80 |  |



# Estimate Summary 

Design Number 1
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: | $\$ 2,267.12$ | $\$ 0.00$ | $\$ 2,267.12$ |
| 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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: | $\$ 0.00$ | $\$ 00$ | $\$ 0.00$ |
| ADDITIONAL ITEMS: |  |  |  |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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 |


| TECC <br> TAMF゙A ELEET |  | Work Request Material Summary <br> ***Includes Truck Stock*** <br> Design Number 1 | Printed Date: $3 / 11 / 2021$ <br> Dist: CSA <br> WR No. 925112 <br> Page 1 of 1 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Material Number |  | Description | Unit Price | Total Cost | Asset? |
| INSTALL |  |  |  |  |  |
| 3 | 2003646 | ARRESTER, DISTRIBUTION, 10KV, 8.4KV MCOV | \$39.68 | \$119.04 | Y |
| 2 | 2077738 | BOLT, 5/8" $\times$ 8" EYE GALV RTS 12,400 LBS. | \$2.99 | \$5.98 | N |
| 4 | 2077739 | BOLT, EYE, $5 / 8 \mathrm{IN} . \mathrm{X} 10 \mathrm{IN} ., \mathrm{GALVANIZED}$ | \$3.12 | \$12.48 | N |
| 2 | 2077744 | BOLT, MACHINE $1 / 2 \mathrm{INCH} \times 7 \mathrm{INCH}$ | \$0.92 | \$1.84 | N |
| 4 | 2077754 | BOLT, MACHINE 5/8" $\times 10{ }^{\prime \prime}$, 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 \#2-4/00R .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 | Y |
| 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 | Y |
| 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 $1 / 2 \mathrm{IN} \times 8 \mathrm{FT}$ | \$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" $\times 6$ 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, ${ }^{\prime \prime} \times 2$ ' $\times 1 / 8$ | \$0.23 | \$0.92 | N |
| 13 | 2078006 | WASHER, FLAT, GALVANIZED, $2^{\prime \prime} \times 2$ " $\times 1 / 8{ }^{\prime \prime}$ | \$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 |  |



# Estimate Summary 

Design Number 1
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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |  |
|  | $\$ 66,633.98$ | $\$ 0.00$ | $\$ 66,633.98$ |  |

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).

Work Request Material Summary
***Includes Truck Stock***
Design Number 1
Printed Date: 3/11/2021
Dist: CSA
WR No. 925113
Page 1 of 1

| Material Number 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, $5 / 8 \mathrm{IN} . \mathrm{X} 10 \mathrm{IN} ., \mathrm{GALVANIZED}$ | \$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" $\times 10$ ", GALV. FULL | \$1.04 | \$41.60 | N |
| 19 | 2077753 | BOLT, MACHINE 5/8" $\times$ 8', GALV. | \$1.05 | \$19.95 | N |
| 1 | 2077780 | BOLT, SPOOL, 5/8" $\times 10$ ", 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 \#2-4/00R .30- | \$9.12 | \$63.84 | N |
| 13 | 2003508 | CLAMP, SUSPENSION AL ANGLE RANGE . 50 TO | \$13.95 | \$181.35 | N |
| 19 | 2077924 | CLEVIS, STEEL LESS INSULATOR $5 / 8 \mathrm{IN}$ 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 726 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 | Y |
| 2 | 2002858 | POLE, WOOD, 45 FT CLASS 2, CCA TREATED. | \$323.31 | \$646.62 | Y |
| 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" $\times$ 3" | \$1.22 | \$75.64 | N |
| 156 | 2078006 | WASHER, FLAT, GALVANIZED, 2" $\times 2$ " $\times 1 / 8{ }^{\prime \prime}$ | \$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 |  |

HD-39


# Estimate Summary 

Design Number 1
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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: |  |  | $\$ 0.00$ |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |  |
|  | $\$ 35,566.44$ | $\$ 0.00$ | $\$ 35,566.44$ |  |

Work Request Material Summary
Design Number 1

## Material Number

## 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 | $\$ 1.15$ | $\$ 6,224.72$ | Y |
| 1013 | 2004364 | CABLE, SERVICE DROP AL 2-2/0 \& 1-1/0 NEU | $\$ 0.96$ | $\$ 972.77$ | Y |
| 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 | $\$ 0.15$ | $\$ 35.45$ | Y |
| 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. | $\$ 141.93$ | $\$ 2,696.67$ | Y |
| 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 | $\$ 11,334.69$ |  |

HD-41


# Estimate Summary 

Design Number 1
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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: | $\$ 0.00$ | $\$ 0.00$ |  |
| ADDITIONAL ITEMS: |  | $\$ 0.00$ |  |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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 |

THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).

TECB
Contact Name:

## Estimate Summary

Design Number 1
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: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| MATERIAL: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| OVERHEAD: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
|  | 0 | 0 | 0 |
| LABOR HOURS: | $\$ 0.00$ | $\$ 0.00$ | $\$ 0.00$ |
| 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: |  |  |  |
| SUBTOTAL: | $\$ 0.00$ |  |  |

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 |





Tariff Sheet No. 5.516 (3.7.2)

|  |  | Current Deposit |  | CPI -U |  |  | Proposed Deposit |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |
| 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\% | \$ |  |

Current
Deposit 2018

Deposit 2021
\$ 10,391
\$ 49
$\xrightarrow{\text { OPERATING I }}$ COSTS



## Table V (A)

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

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


| Overhead System |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (A) <br> 3 Yr Avg Annual |  | {f95ec0edf-cb83-4046-a95c-baa86e24b4c5} (D)  <br> 3 Yr  Avg  <br>  Annual Pole }$\frac{\text { Attachment }}{\text { Revenue (\$) }}$ | Annual Operational Cost Incl Lost Attachment Revenue(\$) | $\begin{gathered} \frac{(\mathrm{B})}{\frac{3 \mathrm{Yr} \text { Avg }}{}} \\ \frac{\text { Annual Line }}{\text { Clearance }} \\ \text { Cost (\$) } \end{gathered}$ |  |  | (B) $+(\mathrm{C})+(\mathrm{D})$ |  | $\frac{(\mathrm{A})+(\mathrm{B})+(\mathrm{D})}{\mathrm{V} \text { Excl Storm }}$ | (C) <br> NPV Storm Only |  |
| 1 | 56,573,076 | \$ (4,441,642) | \$ 52,131,433 | \$ | \$ 21,086,217 | \$ | 73,217,650 |  | \$52,131,433 |  | \$21,086,217 |
| 2 | 57,025,660 | $(4,536,582)$ | \$ 52,489,078 | - | 21,254,907 | \$ | 69,113,388 |  | \$49,193,138 |  | \$19,920,250 |
| 3 | 57,481,865 | $(4,633,552)$ | \$ 52,848,314 | - | 21,424,946 | \$ | 65,238,452 |  | \$46,419,696 |  | \$18,818,755 |
| 4 | 57,941,720 | $(4,732,594)$ | \$ 53,209,126 | - | 21,596,346 | \$ | 61,580,060 |  | \$43,801,892 |  | \$17,778,168 |
| 5 | 58,405,254 | $(4,833,753)$ | \$ 53,571,501 |  | 21,769,116 | \$ | 58,126,142 |  | \$41,331,021 |  | \$16,795,121 |
| 6 | 58,872,496 | $(4,937,075)$ | \$ 53,935,421 | - | 21,943,269 | \$ | 54,865,297 |  | \$38,998,866 |  | \$15,866,431 |
| 7 | 59,343,476 | $(5,042,605)$ | \$ $54,300,871$ |  | 22,118,816 | \$ | 51,786,760 |  | \$36,797,667 |  | \$14,989,093 |
| 8 | 59,818,224 | $(5,150,390)$ | \$ 54,667,834 |  | 22,295,766 | \$ | 48,880,364 |  | \$34,720,097 |  | \$14,160,268 |
| 9 | 60,296,770 | $(5,260,480)$ | \$ 55,036,290 |  | 22,474,132 |  | 46,136,511 |  | \$32,759,238 |  | \$13,377,273 |
| 10 | 60,779,144 | $(5,372,923)$ | \$ 55,406,221 |  | 22,653,925 | \$ | 43,546,132 |  | \$30,908,559 |  | \$12,637,573 |
| 11 | 61,265,377 | $(5,487,769)$ | \$ 55,777,608 |  | 22,835,157 | \$ | 41,100,668 |  | \$29,161,892 |  | \$11,938,776 |
| 12 | 61,755,500 | $(5,605,070)$ | \$ 56,150,430 |  | 23,017,838 |  | 38,792,032 |  | \$27,513,413 |  | \$11,278,619 |
| 13 | 62,249,544 | $(5,724,878)$ | \$ 56,524,666 |  | 23,201,981 | \$ | 36,612,591 |  | \$25,957,626 |  | \$10,654,965 |
| 14 | 62,747,540 | $(5,847,248)$ | \$ 56,900,293 | - | 23,387,596 | \$ | 34,555,134 |  | \$24,489,338 |  | \$10,065,796 |
| 15 | 63,249,521 | $(5,972,233)$ | \$ 57,277,288 | 14,545,275 | 23,574,697 | \$ | 38,479,909 |  | \$28,970,703 |  | \$9,509,206 |
| 16 | 63,755,517 | $(6,099,889)$ | \$ 57,655,628 | 14,661,638 | 23,763,295 | \$ | 36,321,957 |  | \$27,338,564 |  | \$8,983,392 |
| 17 | 64,265,561 | $(6,230,274)$ | \$ 58,035,287 | 14,778,931 | 23,953,401 | \$ | 34,284,620 |  | \$25,797,967 |  | \$8,486,654 |
| 18 | 64,779,685 | $(6,363,446)$ | \$ 58,416,239 | 14,897,162 | 24,145,028 | \$ | 32,361,175 |  | \$24,343,793 |  | \$8,017,382 |
| 19 | 65,297,923 | $(6,499,465)$ | \$ 58,798,458 | 15,016,339 | 24,338,189 | \$ | 30,545,270 |  | \$22,971,211 |  | \$7,574,059 |
| 20 | 65,820,306 | $(6,638,391)$ | \$ 59,181,915 | 15,136,470 | 24,532,894 | \$ | 28,830,908 |  | \$21,675,658 |  | \$7,155,250 |
| 21 | 66,346,869 | $(6,780,287)$ | \$ 59,566,582 | 15,257,562 | 24,729,157 | \$ | 27,212,427 |  | \$20,452,828 |  | \$6,759,599 |
| 22 | 66,877,644 | $(6,925,215)$ | \$ 59,952,428 | 15,379,622 | 24,926,991 |  | 25,684,478 |  | \$19,298,652 |  | \$6,385,825 |
| 23 | 67,412,665 | $(7,073,242)$ | \$ 60,339,423 | 15,502,659 | 25,126,406 | \$ | 24,242,010 |  | \$18,209,290 |  | \$6,032,720 |
| 24 | 67,951,966 | $(7,224,432)$ | \$ 60,727,534 | 15,626,681 | 25,327,418 |  | 22,880,255 |  | \$17,181,116 |  | \$5,699,139 |
| 25 | 68,495,582 | $(7,378,855)$ | \$ 61,116,727 | 15,751,694 | 25,530,037 |  | 21,594,709 |  | \$16,210,705 |  | \$5,384,004 |
| 26 | 69,043,547 | $(7,536,578)$ | \$ 61,506,969 | 15,877,708 | 25,734,277 | \$ | 20,381,118 |  | \$15,294,824 |  | \$5,086,294 |
| 27 | 69,595,895 | $(7,697,672)$ | \$ 61,898,223 | 16,004,729 | 25,940,152 | \$ | 19,235,468 |  | \$14,430,421 |  | \$4,805,047 |
| 28 | 70,152,662 | $(7,862,210)$ | \$ 62,290,452 | 16,132,767 | 26,147,673 | \$ | 18,153,965 |  | \$13,614,614 |  | \$4,539,350 |
| 29 | 70,713,883 | $(8,030,265)$ | \$ 62,683,619 | 16,261,829 | 26,356,854 | \$ | 17,133,028 |  | \$12,844,682 |  | \$4,288,346 |
| 30 | 71,279,595 | $(8,201,912)$ | \$ 63,077,683 | 16,391,924 | 26,567,709 | \$ | 16,169,276 |  | \$12,118,054 |  | \$4,051,221 |
| 31 | 71,849,831 | $(8,377,227)$ | \$ 63,472,604 | 16,523,059 | 26,780,251 | \$ | 15,259,514 |  | \$11,432,307 |  | \$3,827,208 |
| 32 | 72,424,630 | $(8,556,291)$ | \$ 63,868,339 | 16,655,244 | 26,994,493 | \$ | 14,400,729 |  | \$10,785,148 |  | \$3,615,582 |
| 33 | 73,004,027 | $(8,739,181)$ | \$ 64,264,846 | 16,788,486 | 27,210,449 | \$ | 13,590,072 |  | \$10,174,415 |  | \$3,415,657 |
| 34 | 73,588,059 | $(8,925,981)$ | \$ 64,662,078 | 16,922,794 | 27,428,132 | \$ | 12,824,855 |  | \$9,598,067 |  | \$3,226,788 |
| 35 | 74,176,764 | $(9,116,774)$ | \$ 65,059,989 | 17,058,176 | 27,647,557 | \$ | 12,102,539 |  | \$9,054,177 |  | \$3,048,362 |
|  |  |  |  |  | SUM | \$ | 205,239,461 | \$ | 875,981,071 | \$ | 329,258,390 |

NPV $=($ Annual Cost $) /(1+(\text { Discount Rate } / 100))^{\wedge}($ Year -1$)$

## Table V (B)

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


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


NPV $=($ Annual Cost $) /(1+(\text { Discount Rate } / 100))^{\wedge}($ Year -1$)$

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

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



|  | Table VII |  |  |
| :---: | :---: | :---: | :---: |
|  | Net Present Value of Operational Costs |  |  |
|  | Per Mile \& Per Service Calculations |  |  |
|  | Overhead |  |  |
| Primary Voltage System | Incl Storm | Excl Storm | Storm Only |
| NPV Life Cycle Cost | \$1,205,239,461 | \$875,981,071 | \$329,258,390 |
| System Miles OH | 6,246 | 6,246 | 6,246 |
| NPV Life Cycle Cost / Mile | \$192,961.81 | \$140,246.73 | \$52,715.08 |
| Services | Incl Storm | Excl Storm | Storm Only |
| NPV Life Cycle Cost | \$25,747,196 | \$25,747,196 | \$0 |
| Number of Services | 246,960 | 246,960 | 246,960 |
| NPV Life Cycle Cost / Service | \$104.26 | \$104.26 | \$0.00 |
| Underground |  |  |  |
| Primary Voltage System | Incl Storm | Excl Storm | Storm Only |
| NPV Life Cycle Cost | \$420,529,641 | \$418,852,039 | \$1,677,603 |
| System Miles OH | 5,715 | 5,715 | 5,715 |
| NPV Life Cycle Cost / Mile | \$73,583.49 | \$73,289.95 | \$293.54 |
| Services | Incl Storm | Excl Storm | Storm Only |
| NPV Life Cycle Cost | \$23,228,156 | \$23,228,156 | \$0 |
| Number of Services | 284,735 | 284,735 | 284,735 |
| NPV Life Cycle Cost / Service | \$81.58 | \$81.58 | \$0.00 |
| Differential |  |  |  |
| Primary Voltage System | Incl Storm | Excl Storm | Storm Only |
| NPV Life Cycle Cost / Mile | -\$119,378.32 | -\$66,956.78 | -\$52,421.54 |
| Services | Incl Storm | Excl Storm | Storm Only |
| NPV Life Cycle Cost / Service | -\$22.68 | -\$22.68 | \$0.00 |


| Table VIII |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Net Present Value of Operational Costs |  |  |  |  |  |
| Per Lot Calculations |  |  |  |  |  |
| Low Density Subdivision |  |  |  |  |  |
| Overhead |  |  |  |  |  |
|  | Number of Lots | Miles of Line | $\begin{gathered} \text { Incl Storm } \\ \$ / \text { Lot } \end{gathered}$ | Excl Storm $\$ /$ Lot | Storm Only $\$ /$ Lot |
| Primary Voltage System ${ }^{1}$ | 210 | 1.92 | \$1,764.22 | \$1,282.26 | \$481.97 |
| Services | NA | NA | \$104.26 | \$104.26 | \$0.00 |
| Primary \& Service |  |  | \$1,868.48 | \$1,386.52 | \$481.97 |
| Underground |  |  |  |  |  |
| Primary Voltage System ${ }^{1}$ | 210 | 2.99 | \$1,047.69 | \$1,043.51 | \$4.18 |
| Services | NA | NA | \$81.58 | \$81.58 | \$0.00 |
| Primary \& Service |  |  | \$1,129.27 | \$1,125.09 | \$4.18 |
| Primary \& Service |  | Differential | -\$739.21 | -\$261.43 | -\$477.79 |
| High Density Subdivision |  |  |  |  |  |
| Overhead |  |  |  |  |  |
|  | Number of Lots | Miles of Line | $\begin{aligned} & \text { Incl Storm } \\ & \$ / \text { Lot } \end{aligned}$ | Excl Storm $\$ /$ Lot | $\begin{aligned} & \text { Storm Only } \\ & \text { \$ / Lot } \end{aligned}$ |
| Primary Voltage System ${ }^{1}$ | 176 | 1.17 | \$1,282.76 | \$932.32 | \$350.44 |
| Services | NA | NA | \$104.26 | \$104.26 | \$0.00 |
| Primary \& Service |  |  | \$1,387.02 | \$1,036.58 | \$350.44 |
| Underground |  |  |  |  |  |
| Primary Voltage System ${ }^{1}$ | 176 | 1.07 | \$447.35 | \$445.57 | \$1.78 |
| Services | NA | NA | \$81.58 | \$81.58 | \$0.00 |
| Primary \& Service |  |  | \$528.93 | \$527.15 | \$1.78 |
| Primary \& Service |  | Differential | -\$858.09 | -\$509.43 | -\$348.66 |
| Note <br> 1. Formula $=($ NPV Life Cycle Cost $/$ Mile $) \times$ (Miles of Line) $/$ (Number of Lots) |  |  |  |  |  |

Table IX
2020 O 8 M - FORM 13

|  |  | 2020 Actual \$ | $\begin{gathered} \mathrm{OH} \\ \text { Ratio } \end{gathered}$ | $\begin{aligned} & \text { UG } \\ & \text { Ratio } \end{aligned}$ | 2020 Allocated Overhead $\$$ | 2020 Allocated Underground $\$$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Overhead - Blanket Account |  |  |  |  |  |  |
| D-CRR-Voltage-OH (NEW) |  | \$263,090 | 100.0\% | 0.0\% | \$263,090 | \$0 |
| PRE - Dist Line - Fault Indicators |  | \$13,005 | 100.0\% | 0.0\% | \$13,005 | \$0 |
| Distr - Maint - Corrective - OH Line |  | \$10,246,537 | 100.0\% | 0.0\% | \$10,246,537 | \$0 |
| Distribution - Maint - OH System Improvements |  | \$0 | 100.0\% | 0.0\% | \$0 | \$0 |
| Distribution - Maint - Mgmt \& Coordination |  | \$0 | 100.0\% | 0.0\% | \$0 | \$0 |
| Distr - Maint - Preventative - OH Line |  | \$6,448,231 | 100.0\% | 0.0\% | \$6,448,231 | \$0 |
| Distr - Maint - Trouble - OH Storm |  | \$687,761 | 100.0\% | 0.0\% | \$687,761 | \$0 |
| Distr - Maint - Pole Inspect \& Change-Outs |  | \$11,097,693 | 100.0\% | 0.0\% | \$11,097,693 | \$0 |
| Distr - Maint - Damage Replacement - OH Line |  | \$2,655,044 | 100.0\% | 0.0\% | \$2,655,044 | \$0 |
| Distr - Maint - Capacitors |  | \$298,534 | 100.0\% | 0.0\% | \$298,534 | \$0 |
| Distr - Maint - Trouble - Non-Storm |  | \$0 | 0.0\% | 0.0\% | \$0 | \$0 |
| Distr - Maint - Tree Trimming - Planned |  | \$0 | 0.0\% | 0.0\% | \$0 | \$0 |
| Distr - Env - Train/Permit/Inspect/Audit/Protect |  | \$0 | 100.0\% | 0.0\% | \$0 | \$0 |
| Distr - Maint - Tree Trimming - Unplanned |  | \$0 | 0.0\% | 0.0\% | \$0 | \$0 |
| Distr - Maint - Pole Reinforcements |  | \$434,229 | 100.0\% | 0.0\% | \$434,229 | \$0 |
| Distr - Maint - Pole CLAs \& Change-Outs |  | \$67,705 | 100.0\% | 0.0\% | \$67,705 | \$0 |
| Distr - Maint - Infrared Thermography |  | \$0 | 100.0\% | 0.0\% | \$0 | \$0 |
| Distr - Maint - Services - OH Line |  | \$966,573 | 0.0\% | 0.0\% | \$0 | \$0 |
|  | Subtotal | \$33,178,402 |  |  |  |  |
| Underground - Blanket Account |  |  |  |  |  |  |
| D-CRR-Voltage-UG |  | \$23,632 | 0.0\% | 100.0\% | \$0 | \$23,632 |
| D-PRE-Transformers-UG |  | \$2,084,383 | 0.0\% | 100.0\% | \$0 | \$2,084,383 |
| Distr - Maint - Corrective - UG Line |  | \$10,427,986 | 0.0\% | 100.0\% | \$0 | \$10,427,986 |
| Distribution - Maint - UG System Improvements |  | \$0 | 0.0\% | 100.0\% | \$0 | \$0 |
| Distribution - Maint - Mgmt \& Coordination |  | \$0 | 0.0\% | 100.0\% | \$0 | \$0 |
| Distr - Maint - Preventative - UG Line |  | \$9,506,194 | 0.0\% | 100.0\% | \$0 | \$9,506,194 |
| Distr - Maint - Network Corrective |  | \$33,100 | 0.0\% | 100.0\% | \$0 | \$33,100 |
| Distr - Maint - Network Preventative |  | \$25,243 | 0.0\% | 100.0\% | \$0 | \$25,243 |
| Distr - Maint - Capacitors - UG |  | \$53,629 | 0.0\% | 100.0\% | \$0 | \$53,629 |
| Distr - Maint - UG Cable Rplcmnt - Planned |  | \$2,906,062 | 0.0\% | 100.0\% | \$0 | \$2,906,062 |
| Distr - Maint - Trouble - UG Storm |  | \$265,878 | 0.0\% | 100.0\% | \$0 | \$265,878 |
| Distr - Maint - Damage Replacement - UG Line |  | \$1,211,387 | 0.0\% | 100.0\% | \$0 | \$1,211,387 |
| Distr - Maint - UG Cable Rplcmnt - Unplanned |  | \$0 | 0.0\% | 100.0\% | \$0 | \$0 |
| Distr - Maint - Services - UG Line |  | \$812,991 | 0.0\% | 0.0\% | \$0 | \$0 |
|  | Subtotal | \$27,350,485 |  |  |  |  |
| Overhead - O\&M Account |  |  |  |  |  |  |
| D-CRR-Voltage-OH (NEW) |  | \$45,644 | 100.0\% | 0.0\% | \$45,644 | \$0 |
| Distr - Maint - Corrective - OH Line |  | \$7,002,950 | 100.0\% | 0.0\% | \$7,002,950 | \$0 |
| Distribution - Maint - OH System Improvements |  | \$0 | 100.0\% | 0.0\% | \$0 | \$0 |
| Distribution - Maint - Mgmt \& Coordination |  | \$0 | 100.0\% | 0.0\% | \$0 | \$0 |
| Distr - Maint - Preventative - OH Line |  | \$124,407 | 100.0\% | 0.0\% | \$124,407 | \$0 |
| Distr - Maint - Trouble - OH Storm |  | \$593,755 | 100.0\% | 0.0\% | \$593,755 | \$0 |
| Distr - Maint - Pole Inspect \& Change-Outs |  | \$904,908 | 100.0\% | 0.0\% | \$904,908 | \$0 |
| Distr - Maint - Damage Replacement - OH Line |  | \$184,081 | 100.0\% | 0.0\% | \$184,081 | \$0 |
| Distr - Maint - Capacitors |  | \$29,990 | 100.0\% | 0.0\% | \$29,990 | \$0 |
| 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 |
| Distr - Maint - Tree Trimming - Planned |  | \$16,990,720 | 0.0\% | 0.0\% | \$0 | \$0 |
| Distr - Env - Train/Permit/Inspect/Audit/Protect |  | \$26,923 | 100.0\% | 0.0\% | \$26,923 | \$0 |
| Distr - Maint - Tree Trimming - Unplanned |  | \$2,026,699 | 0.0\% | 0.0\% | \$0 | \$0 |
| Distr - Maint - Pole Reinforcements |  | \$0 | 100.0\% | 0.0\% | \$0 | \$0 |
| Distr - Maint - Pole CLAs \& Change-Outs |  | \$0 | 100.0\% | 0.0\% | \$0 | \$0 |
| Distr - Maint - Infrared Thermography |  | \$0 | 100.0\% | 0.0\% | \$0 | \$0 |
| Distr - Maint - Services - OH Line |  | \$839,741 | 0.0\% | 0.0\% | \$0 | \$0 |
|  | Subtotal | \$31,584,618 |  |  |  |  |
| Underground - O\&M Account |  |  |  |  |  |  |
| D-PRE-Transformers-UG |  | \$0 | 0.0\% | 100.0\% | \$0 | \$0 |
| Distr - Maint - Corrective - UG Line |  | \$1,710,255 | 0.0\% | 100.0\% | \$0 | \$1,710,255 |
| Distribution - Maint - UG System Improvements |  | \$0 | 0.0\% | 100.0\% | \$0 | \$0 |
| Distribution - Maint - Mgmt \& Coordination |  | \$0 | 0.0\% | 100.0\% | \$0 | \$0 |
| Distr - Maint - Preventative - UG Line |  | \$220,874 | 0.0\% | 100.0\% | \$0 | \$220,874 |
| Distr - Maint - Network Corrective |  | \$5,573 | 0.0\% | 100.0\% | \$0 | \$5,573 |
| Distr - Maint - Network Preventative |  | \$660,604 | 0.0\% | 100.0\% | \$0 | \$660,604 |
| Distr - Locate Facilities |  | \$948,183 | 0.0\% | 100.0\% | \$0 | \$948,183 |
| Distr - Maint - UG Cable Rplcmnt - Planned |  | \$23,766 | 0.0\% | 100.0\% | \$0 | \$23,766 |
| Distr - Maint - Trouble - UG Storm |  | \$19,316 | 0.0\% | 100.0\% | \$0 | \$19,316 |
| D-CRR-Capacitors-UG |  | \$0 | 0.0\% | 100.0\% | \$0 | \$0 |
| D-CRR-Storms-UG |  | \$0 | 0.0\% | 100.0\% | \$0 | \$0 |
| Distr - Maint - Damage Replacement - UG Line |  | \$174,701 | 0.0\% | 100.0\% | \$0 | \$174,701 |
| Distr - Maint - UG Cable Rplcmnt - Unplanned |  | \$0 | 0.0\% | 100.0\% | \$0 | \$0 |
| Distr - Maint - Services - UG Line |  | \$712,258 | 0.0\% | 0.0\% | \$0 | \$0 |
|  | Subtotal | \$4,475,530 |  |  |  |  |
|  |  |  |  |  | \$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 |  | \$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 - Services - OH Line |  |  |  |  |  |  |
| Blanket |  | \$966,573 | 100.0\% | 0.0\% | \$966,573 | \$0 |
| O\&M |  | \$839,741 | 100.0\% | 0.0\% | \$839,741 | \$0 |
| Distr - Maint - Services - UG Line |  |  |  |  |  |  |
| Blanket |  | \$812,991 | 0.0\% | 100.0\% | \$0 | \$812,991 |
| O\&M |  | \$712,258 | 0.0\% | 100.0\% | \$0 | \$712,258 |
|  |  | 2020 O\&M Cost - Form 13 |  |  | \$63,394,096 | \$33,194,939 |
|  |  |  |  |  | OC-8 |  |

## ENERGY DELIVERY

"2021" ADDER STUDY
Provided by ED Business Planning

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


[^0]:    ${ }^{1}$ Includes Administration, General, Energy Delivery Supervison, \& Transportation
    ${ }^{2}$ Includes Meter
    ${ }^{3} 12.22 \%$ of all Material

[^1]:    ${ }^{1}$ Includes Administration, General, Energy Delivery Supervison, \& Transportation
    ${ }^{2}$ Includes Meter
    ${ }^{3} 12.22 \%$ of all Material

[^2]:    ${ }^{1}$ Includes Administration, General, Energy Delivery Supervison, \& Transportation
    ${ }^{2}$ Includes Meter
    $312.22 \%$ of all Material

[^3]:    ${ }^{1}$ Includes Administration, General, Energy Delivery Supervison, \& Transportation
    ${ }^{2}$ Includes Meter
    $312.22 \%$ of all Material

[^4]:    ${ }^{1}$ Includes Administration, General \& Transportation
    ${ }^{2}$ Includes Meter
    ${ }^{3} 12.22 \%$ of all Material

[^5]:    ${ }^{1}$ Includes Administration, General \& Transportation
    ${ }^{2}$ Includes Meter
    ${ }^{3} 12.22 \%$ of all Material

[^6]:    THIS FORM IS NOT TO BE USED FOR CONTRIBUTION IN AID CONSTRUCTION (CIAC).

