

RE 75-1

Revised 8/31/12

Agreement No. and Date (ODOT Use Only):
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Utility	AEP OHIO	County (Counties)	HAN
Street Address		Route No.	IR 75
City, State, Zip		Section	14.39
Tax ID No.			
Work Order No.	Various-too many to list	PID #	87005
Date of Estimate	11/20/15	ODOT District	1
Estimate Version	Original Estimate	Name of Estimate Preparer	K. L. Prince

**PRELIMINARY ESTIMATE**

**A. Preliminary Engineering**

1. Labor		
a. Salaries and Wages		
b. Fringe Benefits to Labor		
c. Meals, Lodging and Travel		
d. Subconsultant Engineering		\$ -
2. Supplies		
3. Transportation		
4. Total Preliminary Engineering		\$ -

**B. Right of Way Acquisition**

1. Property Costs		
2. Labor		
a. Salaries and Wages		
b. Fringe Benefits to Labor		
c. Meals, Lodging and Travel		
d. Subcontracted Right of Way Acquisition		\$ -
3. Supplies		
4. Transportation		
5. Total Property Costs		\$ -

**C. Temporary Construction**

1. Labor		
a. Salaries and Wages		
b. Fringe Benefits to Labor		
c. Meals, Lodging and Travel		
d. Subcontracted Construction		\$ -
2. Material (Itemized)		
a. New Stock Materials		
b. Purchased Materials		
c. Salvage		
d. Material Handling Rate/Stores (Stock Materials Only)		\$ -
3. Equipment		
a. Utility Owned		
b. Rented		\$ -
4. Total Temporary Construction		\$ -

<b>D. Permanent Construction</b>			
1. Labor			
a. Salaries and Wages	\$	100,293.00	
b. Fringe Benefits to Labor	\$	199,013.00	
c. Meals, Lodging and Travel			
d. Subcontracted Construction	\$	6,000.00	\$ 305,306.00
2. Material (Itemized)			
a. New Stock Materials	\$	80,739.00	
b. Purchased Materials			
c. Salvage	\$	(5,416.00)	
d. Material Handling Rate/Stores (Stock Materials Only)	\$	17,694.00	\$ 93,017.00
3. Equipment			
a. Utility Owned	\$	63,845.00	
b. Rented			\$ 63,845.00
4. Total Permanent Construction			\$ 462,168.00
<b>E. Construction Engineering and Inspection</b>			
1. Labor			
a. Salaries and Wages			
b. Fringe Benefits to Labor			
c. Meals, Lodging and Travel			
d. Subconsultant Engineering			\$ -
2. Supplies			
3. Transportation			
4. Total Construction Engineering			\$ -
<b>F. Accounting/Billing</b>			
1. Labor			
a. Salaries and Wages			
b. Fringe Benefits to Labor			
4. Total Accounting/Billing			\$ -
<b>G. General and Administrative Overhead</b>			
Allowable G&A Overhead in Accordance with 23 CFR 645.117(d) and 48 CFR 31.			\$ 46,033.00
<b>H. Total Costs</b>			\$ 508,201.00
I. Less Betterment (Must be a credit balance)			
J. Less Accrued Depreciation (Must be a credit balance)			
<b>K. Total Allowable Actual Cost per 23 CFR 645.117</b>			\$ 508,201.00
Total Units Relocated	57		
Total Units Reimbursable to Utility	44		
Percentage Utility Participation	22.81%	Estimated Utility Participation	115,920.65
Percentage ODOT Participation	77.19%	Estimated ODOT Participation	\$ 392,280.35

AEP OHIO - HAN - IR 75 - 14.39 - Original Estimate as prepared by K. L. Prince.



I hereby acknowledge that State or Federal funds will be used to reimburse the utility for the allowable costs of the utility relocation listed above.

Accordingly, I hereby certify that the costs used to create this estimate are in accordance with the executed Master Utility Reimbursement Agreement between ODOT and the Utility, all applicable laws, regulations and policies, including but not limited to 23 CFR 645, 48 CFR 31, the Buy America requirements contained in 23 USC 313 and 23 CFR 635.410, the ODOT Office of Real Estate Utilities Manual, and other applicable Federal, State, and ODOT regulations or policies. I also certify that this estimate contains no contingencies or premium labor costs unless clearly proposed in this estimate.

I further acknowledge that costs submitted for reimbursement that do not comply with the above guidance will not be reimbursed by ODOT.

By checking box, utility agrees to conform to the "Buy America" policy. If box is unchecked, ODOT cannot process utility billing for final payment.

\* Please see attached AEP Ohio "Buy America" disclaimer.

"Buy America" requires: "STEEL AND IRON PRODUCTS MADE IN THE UNITED STATES". Furnish steel and iron products that are made in the United States according to the applicable provisions of Federal regulations stated in CFR 635.410. "United States" means the United States of America and includes all territory, continental or insular, subject to jurisdiction of the United States.

**Federal Requirements:** All steel or iron products incorporated permanently into the utility relocation work must be made of steel or iron produced in the United States and all subsequent manufacturing must be performed in the United States. Manufacturing is any process that modifies the chemical content; physical shape or size; or final finish of a product. Manufacturing begins with the initial melting and mixing, and continues through the bending and coating stages. If a domestic product is taken out of the United States for any process, it becomes a foreign source material and is not acceptable.

**Proof of Domestic Origin:** Furnish documentation to the ODOT District Utility Coordinator showing the domestic origin of all steel and iron products covered by this section before they are incorporated into the utility relocation work. If "Buy America" regulations are not adhered to, then any relocation work will not be reimbursed.

Note: The completed Checklist and other required materials should accompany this estimate when sent to the ODOT District office.

[Go To Checklist Tab](#)

(Utility Name - Print or Type)

AEP OHIO

(Print or Type)

Name	Kenneth Prince
Title	Customer Design Technician Senior
Phone #	419-563-1509
Email	klprince@aep.com

3/1/2016

\_\_\_\_\_  
Authorizing Signature

(Please print and submit with other requested documentation)

For ODOT Use Only

\_\_\_\_\_  
Print Name (ODOT Authorization)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Acceptance of Estimate by Authorized ODOT Personnel



## Affidavit by Owner

Jeffery D. Meyers having been duly sworn deposes and says as follows:

That he is the Customer Design Supervisor of Western Ohio District, for Ohio Power Company, an Ohio Corporation engaged as a public utility in the distribution and transmission of electric energy in the State of Ohio:

That in his capacity as Customer Design Supervisor he has under his control the Company's records pertaining to the ownership of land, easement rights, license agreements and uses of land by the Company for its distribution facilities. That the following distribution facilities were constructed in (see attached list) and thereafter the Company operated and maintained such facilities continuously and intends to and does claim the right to continue to use said facilities.

The poles referred to are numbered as follows with location establishment date:

41840549B20041 - 1958  
96 - 1959  
80 - 1956  
135 - 1971  
46A- 1982  
95 - 1959  
41840501B20223 - 1988  
222 - 1988  
221 - 1988  
228 - 1992  
144 - 1964

That no records have been located disclosing any evidence of the existence of any easement recorded or otherwise, ever having been granted with respect to the aforesaid electric line, or any permission of license, written or oral, having been granted with respect thereto. That such facilities are located outside the existing public road right-of-way in the City of Findlay, Hancock County, State of Ohio.

Further, affiant sayth naught.

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Jeffery D. Meyers  
Customer Design Supervisor  
Western Ohio District

State of Ohio  
County of Hancock, ss:

Before me, a Notary Public, in and for said county, personally appeared Jeffery D. Meyers, Customer Design Supervisor of Western Ohio District, who stated that the above facts are true to the best of his knowledge and belief and that the same is free act and deed.

In Testimony Whereof, I have hereunto affix my name and official seal at Gahanna, Ohio this \_\_\_\_\_, day of September, 2015.

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Notary Public  
Commission Expires:

Columbus Southern Power/Ohio Power Company  
**Poles Affected List**



Transmission       Distribution

County <b>Hancock</b>	Route <b>Han-75-14.39</b>	Section <b>Entire Project</b>
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Status of Existing Poles Affected by Highway Project

Plant Facilities on Public Right-of-Way		Plant Facilities on Private Right-of-Way
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	
	14	
	15	
	16	
	17	
	18	
	19	
	20	

Total Affected Poles on Public Right-of-Way <u>13</u> Company Participation <u>22.81</u> % Round Percentage to Nearest Hundredth		Total Affected Poles on Private Right-of-Way <u>44</u> Governmental Participation <u>77.19</u> % Round Percentage to Nearest Hundredth
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Note Below Any Circumstances Which May Affect This Project:


\* Indicates Stub Pole Not Counted In Poles Affected Quantities.

Region Engineering or General Office Engineering

By \_\_\_\_\_ Date \_\_\_\_\_

Columbus Southern Power/Ohio Power Company

**Evidence of Ownership of Right-of-Way**

Transmission       Distribution

County <b>Hancock</b>	Route <b>Han - 75 - 14.39</b>	Section <b>Entire Project</b>
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Company Drwg. No.

Name of Grantor	Company's E #	Date Recorded	Volume	Page	Township	Drawing No.
<u>Lima Ave Section</u> City of Findlay R/W	4184- <u>54982</u> 38 50 46 22 52A		City of Findlay R/W			
Private R/W by eminent domain (affidavit attached)	41 96 80 135 46A 95		Affidavit			
<u>Melrose Ave Section</u> City of Findlay R/W	4184- <u>50182</u> 187 131 208 209 188 132		City of Findlay R/W			
<u>Broad Ave</u> Private R/W by eminent domain (affidavit attached)	4184- <u>50182</u> 223 222 221 228 144		Affidavit			



Columbus Southern Power/Ohio Power Company

**Evidence of Ownership of Right-of-Way**

Transmission       Distribution

County	Route	Section
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Company Drwg. No.

Name of Grantor	Company's E #	Date Recorded	Volume	Page	Township	Drawing No.
Heritage Manor Section City of Findlay - greater	4184- 501A2 77 78 79 117	5/17/96	386	181	Liberty	N/A
Northern Heights Section Platted utility easement - Northern Heights 3 <sup>rd</sup> Addition	4184 501A2 14 1	6/13/66	8	11	Liberty	N/A
Platted utility easement - Northern Heights 4 <sup>th</sup> Addition	67 68 359 69 2 501A2 28 29 30 31 32 33	9/5/68	8	36	Liberty	N/A
Platted utility easement Northern Heights 6 <sup>th</sup> Addition	50 49 48 48A 47	11/20/99	14	9	Liberty	N/A

Columbus Southern Power/Ohio Power Company  
**Poles Affected List**



Transmission       Distribution

County <u>Hancock</u>	Route <u>Han-75-14.39</u>	Section <u>Logan Ave</u>
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Status of Existing Poles Affected by Highway Project

Plant Facilities on Public Right-of-Way

Plant Facilities on Private Right-of-Way

<u>41840548020034</u>	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	
	14	
	15	
	16	
	17	
	18	
	19	
	20	

Total Affected Poles on Public Right-of-Way 1  
 Company Participation 100.00 %  
 Round Percentage to Nearest Hundredth

Total Affected Poles on Private Right-of-Way 0  
 Governmental Participation 0 %  
 Round Percentage to Nearest Hundredth

Note Below Any Circumstances Which May Affect This Project:

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\* Indicates Stub Pole Not Counted In Poles Affected Quantities.

Region Engineering or General Office Engineering

by \_\_\_\_\_ Date \_\_\_\_\_



Columbus Southern Power/Ohio Power Company  
**Poles Affected List**

Transmission     Distribution

County <b>Hancock</b>	Route <b>Han-75-14.39</b>	Section <b>Lima Ave</b>
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Status of Existing Poles Affected by Highway Project

Plant Facilities on Public Right-of-Way		Plant Facilities on Private Right-of-Way	
	215	1	4184054982 0038 (f)
41840549820039	41840548040156	2	
		3	41 (P)
		4	96 (P)
42		5	
		6	80 (P)
		7	50 (f)
		8	135 (P)
44		9	
107		10	
45		11	
		12	46 (f)
		13	46 A (P)
		14	95 (P)
49		15	
56		16	
69		17	
53		18	
		19	22 (f)
108		20	

Total Affected Poles on Public Right-of-Way 12  
 Company Participation 52.17 %  
 Round Percentage to Nearest Hundredth

Total Affected Poles on Private Right-of-Way 11  
 Governmental Participation 47.83 %  
 Round Percentage to Nearest Hundredth

Note Below Any Circumstances Which May Affect This Project:

(P) = Private Right of Way  
 (f) = City of Findley Right of Way

\* Indicates Stub Pole Not Counted In Poles Affected Quantities.

Region Engineering or General Office Engineering

By \_\_\_\_\_ Date \_\_\_\_\_



566167134 56616661



### Columbus Southern Power/Ohio Power Company Poles Affected List

Transmission     Distribution

County <b>Hancock</b>	Route <b>Han-75-14.39</b>	Section <b>Broad Ave</b>
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**Status of Existing Poles Affected by Highway Project**

Plant Facilities on Public Right-of-Way	Plant Facilities on Private Right-of-Way
	1 41840501 B20223
	2 41840501 B20222
	3 221
	4 <del>221</del> Cont Cont 1991 not 21yr
	5 228
	6 44
	7
	8
	9
	10
	11
	12
	13
	14
	15
	16
	17
	18
	19
	20

Total Affected Poles on Public Right-of-Way <u>0</u> Company Participation <u>0.00</u> % Round Percentage to Nearest Hundredth	Total Affected Poles on Private Right-of-Way <u>5</u> Governmental Participation <u>100.00</u> % Round Percentage to Nearest Hundredth
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**Note Below Any Circumstances Which May Affect This Project:**

\* Indicates Stub Pole Not Counted In Poles Affected Quantities.

Region Engineering or General Office Engineering

By \_\_\_\_\_ Date \_\_\_\_\_

Transmission       Distribution

County <u>Hancock</u>	Route <u>Han-15-14.39</u>	Section <u>Melrose Ave</u>
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Status of Existing Poles Affected by Highway Project

Plant Facilities on Public Right-of-Way	Plant Facilities on Private Right-of-Way
	1 41840501820187 (F)
	2 131 (F)
	3 208 (F)
	4 209 (F)
	5 188 (F)
	6 132 (F)
	7
	8
	9
	10
	11
	12
	13
	14
	15
	16
	17
	18
	19
	20

Total Affected Poles on Public Right-of-Way 0  
 Company Participation 0.00 %  
 Round Percentage to Nearest Hundredth

Total Affected Poles on Private Right-of-Way 6  
 Governmental Participation 100.00 %  
 Round Percentage to Nearest Hundredth

Note Below Any Circumstances Which May Affect This Project:

(F) = Poles are within road R/W but City of Findlay R/W NOT State R/W. Therefore They are counted as reimburseable.

\* Indicates Stub Pole Not Counted In Poles Affected Quantities.

Region Engineering or General Office Engineering

By \_\_\_\_\_ Date \_\_\_\_\_



Columbus Southern Power/Ohio Power Company  
Poles Affected List



Transmission     Distribution

County <b>Hancock</b>	Route <b>Han-75-14.39</b>	Section <b>Heritage Manor</b>
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Status of Existing Poles Affected by Highway Project

Plant Facilities on Public Right-of-Way	Plant Facilities on Private Right-of-Way
	1 41840501A20077
	2 78
	3 79
	4 117
	5
	6
	7
	8
	9
	10
	11
	12
	13
	14
	15
	16
	17
	18
	19
	20

Total Affected Poles on Public Right-of-Way 0  
 Company Participation 0.00 %  
 Round Percentage to Nearest Hundredth

Total Affected Poles on Private Right-of-Way 4  
 Governmental Participation 100.00 %  
 Round Percentage to Nearest Hundredth

Note Below Any Circumstances Which May Affect This Project:

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\* \* Indicates Stub Pole Not Counted In Poles Affected Quantities.

Region Engineering or General Office Engineering

By \_\_\_\_\_ Date \_\_\_\_\_

Columbus Southern Power/Ohio Power Company  
**Poles Affected List**



Transmission       Distribution

County <b>Hancock</b>	Route <b>Han-75-14.39</b>	Section <b>Northern Heights</b>
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Status of Existing Poles Affected by Highway Project

Plant Facilities on Public Right-of-Way	Plant Facilities on Private Right-of-Way
	1 41840501A20014
	2 1
	3 67
	4 68
	5 359
	6 69
	7 41840501A10028
	8 29
	9 30
	10 31
	11 32
	12 33
	13 50
	14 49
	15 48
	16 48A
	17 47
	18 4184301A20002
	19
	20

Total Affected Poles on Public Right-of-Way 0  
 Company Participation 0.00 %  
 Round Percentage to Nearest Hundredth

Total Affected Poles on Private Right-of-Way 18  
 Governmental Participation 100.00 %  
 Round Percentage to Nearest Hundredth

Note Below Any Circumstances Which May Affect This Project:

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\* Indicates Stub Pole Not Counted In Poles Affected Quantities.

Region Engineering or General Office Engineering

By \_\_\_\_\_ Date \_\_\_\_\_

Work Order Cost Estimate For Distribution

Logan Ave

Work Order #: Project EDN012368  
 District: AEP Ohio  
 Division: Western Ohio  
 Work Request #: 60408832 Date: 1/7/2016

NEW MATERIAL - PERMANENT CONSTRUCTION

Account/ Assembly Unit	Description	Qty	Material Cost
ARM-8D-60HS	ARM,8ft Double Wood,60in HD Sgl. Wd	1	\$71.63
ARM-BR-60S	ARM,Brace only Wood,60in Sgl. Wd	1	\$12.24
PIN-XAL	Pin,Crossarm Light	4	\$16.34
POL-45-3	Pole,45ft,Class 3	1	\$330.17
INS-13-P-P	INS,2.4-13.2kV,Pin,Porcelain	2	\$5.80
TIE-2-2TP-J	TIE,2 AWG,Double Top,J Neck	2	\$22.13
	Misc Material	lot	\$91.66
	TOTAL NEW MATERIAL	TOTAL	\$549.97

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## Work Order Cost Estimate For Distribution

Work Order #

Project EDN012368

District AEP Ohio  
Division Western Ohio

Work Request #: 60411644

Date: 1/7/2016

## NEW MATERIAL - PERMANENT CONSTRUCTION

Account/ Assembly Unit	Description	Qty	Material
ANC-DHM-8-84-D34	ANC, Dbl Hlx Mach, 8in, 84in, Db Eye 3/4in	7	\$300.93
ANC-SHM-8-84-S58	ANC, Sgl Hlx Mach, 8in, 84in, Sg Eye 5/8in	12	\$265.71
ARM-8D-60HS	ARM, 8ft Double Wood, 60in HD Sgl, Wd	3	\$214.89
ARM-8D-60S	ARM, 8ft Double Wood, 60in Sgl, Wd	4	\$267.64
ARM-8S-60HS	ARM, 8ft Single Wood, 60in HD Sgl Wd	1	\$40.81
ARM-9D-60S	ARM, 9ft Double Wood, 60in Sgl, Wd	13	\$1,470.82
ARM-BR-60S	ARM, Brace only Wood, 60in Sgl Wd	14	\$171.33
BKT-AC12-F	BKT, Arrestor/CO 12in (1Ph), Fbrgls	1	\$24.43
BKT-IP8-F	BKT, Insulator Post 8in, Fbrgls	3	\$62.09
BKT-PI18-F	BKT, Pin insulator 18in, Fbrgls	2	\$49.38
BKT-RAT3-A	BKT, Riser Arr/Term 3Ph, Alum	1	\$46.41
BKT-RAT3-F	BKT, Riser Arrestor/Term 3Ph, Fbrgls	1	\$85.29
GUY-38SAS	GUY, Complete 3/8'EHS ScrewAnc Sgl eye rod	1	\$44.33
GYD-MPY	GYD, Marker-Plastic-Yellow	10	\$22.08
GYF-12-78P-I	GYF, 1/2, 78In pole Mt, Insulator Adder	6	\$170.34
GYF-12-D-78P-EP	GYF, 1/2, Down, 78in Pole mt, EyePlate	8	\$584.97
GYF-38-24W-I	GYF, 3/8, 24In Wire Mt, Insulator Adder	1	\$17.66
GYF-38-78W-I	GYF, 3/8, 78Wire mt, Insulator Adder	14	\$263.16
GYF-38-D-78P-EP	GYF, 3/8, Down, 78in Pole mt, EyePlate	1	\$31.93
GYF-38-D-78W-GH	GYF, 3/8, Down, 78in Wire mt, Guy Hook	1	\$30.70
GYF-38-D-N-GH	GYF, 3/8, Down, None, Guy Hook	13	\$154.70
GYW-12	GYW, 1/2 in. EHS (26,900 lbs)	240	\$118.44
GYW-38	GYW, 3/8 in EHS (15,400 lbs)	600	\$154.35
PIN-15-ANG	Pin, 15kV, Angle	12	\$86.82
PIN-15-PTP	Pin, 15kV, Pole Top	3	\$16.71
PIN-XAH	Pin, Crossarm Heavy	11	\$47.58
PIN-XAL	Pin, Crossarm Light	15	\$61.27
PLA-BRACRBF	PLA, Gnd Brace Rock Backfill(New)Full	72	\$0.00
PLA-DLOC	PLA, Difficult Location	3	\$0.00
PLA-FLAG	PLA, Flag Traffic	91	\$0.00
PLA-JADJ	PLA, Junction Pole Adjacent Hole (Hot)	5	\$0.00
PLA-ROCK	PLA, Rock Hole	5	\$0.00
PLD-TNG	PLD, Tongue Deadend	10	\$24.66
PLD-TNG-ARM	PLD, Tongue Deadend, Arm	46	\$64.71
POL-45-2	Pole, 45ft, Class 2	1	\$381.60
POL-45-3	Pole, 45ft, Class 3	7	\$2,311.19
POL-45-4	Pole, 45ft, Class 4	1	\$284.58
POL-50-2	Pole, 50ft, Class 2	1	\$442.00
POL-50-3	Pole, 50ft, Class 3	2	\$766.26
SAA-3-CV	SAA, 3 inch, Clevis	22	\$96.57
SAA-4-CV-40	SAA, 4 inch, Clevis, 4/0	2	\$10.30
CNC-NTI-2	CNC, splice Non-Tension Insul, #6-#2	2	\$1.31
CNC-SNB-10	CNC, Splice Non-Tension Bare, #336-#1033	18	\$64.24
CNC-SNB-2	CNC, Splice Non-Tension Bare, #6-#2	22	\$21.54
CNC-SNB-40	CNC, Splice Non-Tension Bare, #1/0-#4/0	4	\$3.92
CNC-STC-40	CNC, Sleeve Tension Compress'n, #1/0-#4/0	2	\$14.91
CND-HLC2	CND, Hot Line clamp #6-#2	10	\$62.47
CND-S2O	CND, Stirrup #2 Open	10	\$54.34
CND-XL14	CND, eXtension Link 14in	6	\$36.15



CON-10-AAA-1-B	CON,#1/0 AWG,Alum Alloy,One,Bare	213	\$47.26
CON-2-AAA-1-B	CON,#2 AWG,Alum Alloy,One,Bare	1068	\$175.16
CON-2-AAA-1-W	CON,#2 AWG,Alum Alloy,One,WP	533	\$124.00
CON-2-AAL-3-P	CON,#2 AWG,All Aluminum,Three,Poly	100	\$55.70
CON-40-AAA-1-B	CON,#4/0 AWG,Alum Alloy,One,Bare	1271	\$555.05
CON-556-AAL-1-B	CON,556.5 MCM,All Aluminum,One,Bare	3813	\$3,610.45
DEC-20AL	DEC,#4 - #2/0 AA,AL,AS	18	\$114.90
DEC-20CU	DEC,#6 - #2/0 CU	4	\$70.52
DEC-500CU	DEC,#3/0 - #500 CU	3	\$76.45
DEC-795AL	DEC,#477 - #795 AL,AS	24	\$400.16
DEG-10-PNA	DEG,1/0,Primary Neutral Al	1	\$1.73
DEG-2-PNA	DEG,#2,Primary Neutral Al	13	\$14.04
DEG-2-SPA	DEG,#2,Slack Span Alum	7	\$26.68
DEG-40-PNA	DEG,4/0,Primary Neutral Al	3	\$10.96
DEG-4-PNA	DEG,#4,Primary Neutral Al	1	\$0.84
EQL-1-4-C-4-C-E1	EQL,1 Phase,#4,Sol,#4,Sol,100a Eq C/O	3	\$25.95
GND-CR-4	GND,Cu Clad Rod,#4	1	\$93.79
GND-CW-4	GND,Copperweld,#4	2	\$190.18
GND-CW-4-TD	GND,Copperweld,#4,Theft Deterrent	2	\$104.80
GND-EE-4	GND,Extend Gnd To Guy/Eq,#4	8	\$55.04
GND-MD	GND,Wire Mldg Only	2	\$4.78
INS-13-P-P	INS,2.4-13.2kV,Pin,Porcelain	45	\$130.42
INS-15-D-S	INS,15kV,Deadend,Polymer	54	\$436.62
JPR-10-AAA-1-B	JPR,#1/0 AWG,Alum Alloy,One,Bare	3	\$6.06
SAA-DE-10	SAA,Dead End,1/0	3	\$11.94
SAA-DI-10	SAA,Dead End I Bolt,1/0	1	\$6.17
SAA-DI-40	SAA,Dead End I Bolt,4/0	1	\$12.70
SWI-15P-CO1-100-H	SWI,15kVYPolymer,Line Cutout 1ph,100A.Hk	3	\$193.38
TIE-10-SP3-N	TIE,1/0 AWG,Spool 3in,Neutral/Sec	1	\$2.57
TIE-2-SP3-N	TIE,2 AWG,Spool 3in,Neutral/Sec	3	\$5.25
TIE-40-SP3-N	TIE,4/0 AWG,Spool 3in,Neutral/Sec	1	\$3.41
TIE-40-SP4-N	TIE,4/0 AWG,Spool 4in,Neutral/Sec	2	\$6.74
TIE-4-ALH-35	TIE,4 AWG,AL Hand Tie,35kV (F Neck)	8	\$0.76
TIE-4-ALH-F	TIE,4 AWG,AL Hand Tie,F Neck	56	\$5.29
TIE-4-CUH-15	TIE,4 AWG,CU Hand Tie,15kV (F Neck)	8	\$3.29
TIE-4-CUH-35	TIE,4 AWG,CU Hand Tie,35kV (F Neck)	6	\$2.47
TIE-4-CUH-F	TIE,4 AWG,CU Hand Tie,F Neck	34	\$14.00
TIE-556-1TP-C	TIE,556 KCM,Single Top,C Neck	1	\$3.10
TIE-556-2SD-C	TIE,556 KCM,Double Side,C Neck	6	\$40.88
TIE-556-2TP-C	TIE,556 KCM,Double Top,C Neck	2	\$23.00
URSR-3-DSO	URSR,3in,Dist Stand Off	1	\$103.97
ARR-10-R	ARR,10kV,Riser Pole	3	\$83.22
UEXA-HE-D	UEXA,Hand Excavation (cubic yd ),DBury	3	\$0.00
UGND-TAG-C	UGND,TAG CABLE MARKER (WHITE),Cable	3	\$0.98
UPTM-SO-2-15	UPTM,Shrink Outdoor,2,15kV	3	\$59.20
URSG-D-168	URSG,Distr,1.68in OD	3	\$24.63
URSG-D-CGS1	URSG,Distr,Cable Grip Support 1grip	1	\$20.21
EQL-1-4-C-4-C-X	EQL,1 Ph,#4,CU Sol,#4,CU Sid,Xfr	1	\$21.45
XCO-15P-100-10	XCO,15kVPolymer,100 Amp,10kA	1	\$68.35
XRD-APL	XRD,Animal Proof w/Lead cover	1	\$9.95
XRD-EAG	XRD,Electrostatic Animal Guard	1	\$9.12
GND-LG-SL	GND,Lug,St Lt	4	\$6.73
CNC-NTS-2	CNC,Non-Tension Splice for Serv.#6-#2	24	\$5.23
CNC-NTS-40	CNC,Non-Tension Splice for Serv.,1/0-4/0	21	\$3.27
SVD-SG4	SVD,Service Grip,#4	3	\$0.46
	Misc. Material	lot	\$3,305.76
TOTAL NEW MATERIAL		TOTAL	\$19,834.54



Lima Ave

### Work Order Cost Estimate For Distribution

Work Order #: Project Number: EDN012368  
 District: AEP Ohio  
 Division: Western Ohio  
 Work Request #: 60412378 Date: 1/7/2016

**NEW MATERIAL - PERMANENT CONSTRUCTION**

Account/ Assembly Unit	Description	Qty	Material Cost
ARM-12SF-GN-TH	ARM,12ft Sgl.Fiberglass,Gain,Tangent HD	1	\$227.09
PIN-XAH	Pin,Crossarm Heavy	3	\$307.21
PIN-XAH-C	Pin,Crossarm Heavy,Corrosive	3	\$2,150.46
PIN-XAL	Pin,Crossarm Light	4	\$16.34
PLD-BAND3472	PLD,Band, 3/4in X 72in, SS	3	\$55.86
PLD-TNG-ARM	PLD, Tongue Deadend, Arm	6	\$9.32
SAA-3-CV	SAA,3 inch,Clevis	2	\$9.47
ARD-40	ARD,4/0 AA or AS (Armor Rod)	1	\$7.52
ARD-556	ARD,556 AL (Armor Rod)	3	\$60.17
CNC-SNB-10	CNC,Splice Non-Tension Bare,#336-#1033	4	\$14.21
CND-XL5	CND,eXtension Link 5 1/2 in	12	\$73.72
CNW-A-556-40A	CNW,Ampact,556AL,4/0AL	4	\$54.56
CNW-A-556-556	CNW,Ampact,556AL,556AL	20	\$272.80
CON-40-AAA-1-B	CON,#4/0 AWG,Alum Alloy,One,Bare	452	\$205.79
CON-556-AAL-1-B	CON,556.5 MCM,All Aluminum.One,Bare	2675	\$2,987.46
DEC-500CU	DEC,#3/0 - #500 CU	4	\$657.19
DEC-795AL	DEC,#477 - #795 AL,AS	12	\$200.96
DEC-795AL-C	DEC,#477 - #795 AL,AS,Corrosive	4	\$699.82
GND-EERIV-4	GND,Extend Gnd To Guy/Eq/RivNut,#4	2	\$19.94
INS-13-P-P	INS,2.4-13.2kV,Pin,Porcelain	2	\$5.80
INS-15-D-S	INS,15kV,Deadend,Polymer	12	\$97.03
INS-15-P-P	INS,15kV,Pin,Porcelain	1	\$66.86
INS-25-D-S	INS,25kV,Deadend,Polymer	4	\$201.60
INS-25-P-P	INS,25kV,Pin,Porcelain	4	\$201.60
INS-35-D-S	INS,35kV,Deadend,Polymer	12	\$159.40
INS-35-P-P	INS,35kV,Pin,Porcelain	6	\$46.04
JPR-40-AAA-1-B	JPR,#4/0 AWG,Alum Alloy,One,Bare	3	\$12.42
JPR-556-AAL-1-B	JPR,556.5 MCM,All ALuminum, One. Bare	9	\$81.00
SAA-DE-40	SAA,Dead End,4/0	3	\$36.18
TIE-40-1TP-J	TIE,4/0 AWG,Single Top,J Neck	1	\$3.20
TIE-556-1TP-J	TIE,556 KCM,Single Top,J Neck	3	\$14.71
UGND-TPC-C	UGND,TAPE SEMI-CONDUCTING 3/4",Cable	1	\$9.59
UGND-TPF-C	UGND,TAPE FILLER INSULATING,Cable	3	\$15.66
	Misc. Material	Lot	\$1778.20
	TOTAL NEW MATERIAL OVERHEAD	TOTAL	\$10759.18

## Work Order Cost Estimate For Distribution

Work Order #:

Project Number: EDN012368

District: AEP Ohio  
Division: Western Ohio

Work Request #: 60410527

Date: 1/7/2016

## NEW MATERIAL - PERMANENT CONSTRUCTION

Account/ Assembly Unit	Description	Qty	Material Cost
PLD-BRACPSH	PLD,Gnd Brace Fittng (Push Brace)	1	\$55.57
PLD-TNG-ARM	PLD, Tongue Deadend, Arm	6	\$8.44
POL-35-5	Pole,35ft,Class 5	1	\$152.93
SAA-3-CV	SAA,3 inch,Clevis	3	\$13.17
CNC-SNB-2	CNC,Splice Non-Tension Bare,#6-#2	11	\$10.77
CND-HLC2	CND,Hot Line clamp #6-#2	1	\$6.25
CND-S2	CND,Stirrup #2	1	\$3.59
CON-2-AAA-1-B	CON,#2 AWG,Alum Alloy,One.Bare	10	\$1.57
DEC-20AL	DEC,#4 - #2/0 AA,AL,AS	6	\$38.30
DEG-2-PNA	DEG,#2,Primary Neutral Al	3	\$3.24
INS-15-D-S	INS,15kV,Deadend,Polymer	6	\$48.51
INS-15-P-P	INS,15kV,Pin,Porcelain	3	\$16.38
TIE-2-SP3-N	TIE,2 AWG,Spool 3in,Neutral/Sec	1	\$1.75
TIE-6-ALH-15	TIE,6 AWG,AL Hand Tie,15kV (F Neck)	18	\$1.10
	Misc. Material	Lot	\$72.30
	TOTAL NEW MATERIAL OVERHEAD	TOTAL	\$433.87

Broad Ave

## Work Order Cost Estimate For Distribution

Work Order # \_\_\_\_\_ Project EDN012368  
 District: AEP Ohio  
 Division: Western Ohio  
 Work Request # 60377571 Date 1/7/2016

## NEW MATERIAL - PERMANENT CONSTRUCTION

Account/ Assembly Unit	Description	Qty	Material
ARM-8S-60S	ARM,8ft Single Wood,60in Sgl Wd	2	\$72.76
BKT-AC12-F	BKT,Arrestor/CO 12in (1Ph).Fbrgl	3	\$70.45
BKT-CMX-50-A	BKT,Cluster Mint (XFMR),50KVA,Alum	1	\$99.23
BKT-IP8-F	BKT,Insulator Post 8in,Fbrgl	1	\$20.77
PIN-15-PTP	Pin,15kV,Pole Top	2	\$12.20
PIN-XAL	Pin,Crossarm Light	4	\$16.34
POL-35-5	Pole,35ft,Class 5	2	\$299.40
POL-40-4	Pole,40ft,Class 4	2	\$466.04
SAA-3-CV	SAA,3 inch,Clevis	5	\$23.66
SAA-4-CV-40	SAA,4 inch,Clevis,4/0	1	\$5.79
SAA-CL-336	SAA,Susp Clamp Light Angle.336	1	\$7.34
CNC-NTI-2	CNC,splice Non-Tension Insul,#6-#2	4	\$2.60
CNC-NTI-40	CNC,splice Non-Tension Insul,#1/0-#4/0	4	\$2.61
CNC-SNB-2	CNC,Splice Non-Tension Bare,#6-#2	1	\$0.98
CNC-SNB-40	CNC,Splice Non-Tension Bare,#1/0-#4/0	1	\$0.98
CND-HLC2	CND,Hot Line clamp #6-#2	3	\$18.74
CND-S2O	CND,Stirrup #2 Open	3	\$16.29
CON-10-ACS-4-P	CON,1/0 AWG,ACSR,Four.Poly	194	\$232.37
CON-4-AAA-2-P	CON,#4 AWG,Alum Alloy,Two,Poly	100	\$31.91
DEG-2-PNA	DEG,#2,Primary Neutral Al	1	\$1.08
DEG-40-SNA	DEG,4/0,Secondary Neutral Al	1	\$1.15
DEG-4-DP	DEG,#4,DuPlex	2	\$1.68
GND-CW-4	GND,Copperweld,#4	1	\$102.73
GND-CW-4-TD	GND,Copperweld,#4,Theft Deterrent	1	\$57.51
GND-MD	GND,Wire Mldg Only	1	\$2.39
INS-13-P-P	INS,2 4-13,2kV,Pin.Porcelain	7	\$20.28
TIE-2-1TP-C	TIE,2 AWG,Single Top,C Neck	4	\$8.11
TIE-2-SP3-N	TIE,2 AWG,Spool 3in,Neutral/Sec	1	\$1.75
TIE-40-SP4-N	TIE,4/0 AWG,Spool 4in,Neutral/Sec	1	\$3.44
TIE-4-CUH-35	TIE,4 AWG,CU Hand Tie,35kV (F Neck)	6	\$2.83
TIE-556-1TP-C	TIE,556 KCM,Single Top,C Neck	3	\$9.29
EQL-3-4-C-2-S-X	EQL,3 Ph,#4,CU Sol,#2,CU Str.Xfr	1	\$64.70
XCO-15P-100-10	XCO,15kV Polymer,100 Amp,10kA	3	\$204.99
XRD-APL	XRD,Animal Proof w/Lead cover	3	\$29.30
XRD-EAG	XRD,Electrostatic Animal Guard	3	\$27.37
CNC-SNI-40	CNC,Svc.spl. Non-Tension insul,#1/0-#4/0	4	\$2.61
SVC-20-QD-ALA-CM	SVC,2/0,Quad,Alum/Aly Neut,Comm	1	\$8.67
SVD-3-CV	SVD,3 inch,Clevis	2	\$9.47
GND-LG-AL	GND,Lug,Area Lt	1	\$1.76
	Misc Material	Lot	\$392.31
	TOTAL NEW MATERIAL PERMANENT CONSTRUCTION	TOTAL	\$2,353.88

Work Order Cost Estimate For Distribution

Broad Ave.

Work Order # \_\_\_\_\_ Project EDN012368  
 District: AEP Ohio  
 Division: Western Ohio  
 Work Request # 60380763 Date: 1/7/2016

NEW MATERIAL - PERMANENT CONSTRUCTION

Account/ Assembly Unit	Description	Qty	Material
BKT-AC183PH-F	BKT,Riser Arrestor/Term 18in 3Ph.Fbrgls	1	\$85.40
BKT-IP8-F	BKT,Insulator Post 8in.Fbrgls	1	\$20.77
BKT-RAT3-A	BKT,Riser Arr/Term 3Ph,Alum	1	\$46.63
CND-HLC2	CND,Hot Line clamp #6-#2	3	\$18.74
CND-S2O	CND,Stirrup #2 Open	3	\$16.29
EQL-1-4-C-4-C-E1	EQL,1 Phase,#4,Sol,#4,Sol,100a Eq C/O	3	\$27.32
GND-CW-4	GND,Copperweld,#4	1	\$102.73
GND-CW-4-TD	GND,Copperweld,#4,Theft Deterrent	1	\$57.51
INS-13-P-P	INS,2.4-13 2kV,Pin,Porcelain	1	\$2.90
SWI-15P-CO1-100-H	SWI,15kVYPolymer,Line Cutout 1ph.100A,Hk	3	\$193.38
UCDT-E94-3-P40-D	UCDT,EI 90-48rad.3in,PVC 40.Distr	1	\$17.41
UGND-LCK7-C	UGND,PADLOCK #621A 7/8in BRASS,Cable	1	\$5.69
URSR-3-DSO	URSR,3in,Dist Stand Off	1	\$105.12
ARR-10-R	ARR,10kV,Riser Pole	3	\$83.75
UCON-2-AL-3-15-D	UCON,2 AWG,AL,Three Cond,15kV,Distr	674	\$2,725.39
UEGD-W13-4	UEGD,GRD 10FT CU WELD ROD(PAD BOX 3	1	\$18.48
UENC-15-CB-3-PM-62	UENC,15kV,Cabinet,3Ph,Padmnt,66X22	1	\$783.97
UENC-GS-F-32	UENC,Ground Sleeve.Fiberglass.36X22	1	\$141.41
UGND-BWC14-C	UGND, Bushing Well Cap 14.4 kv, Cable	9	\$152.62
UGND-BWI15-C	UGND, Bushing Well Insert 15KV.Cable	6	\$123.17
UGND-FTBWI15-C	UGND, Feed thru Bshg Well Insert15kv,Cbl	6	\$580.86
UGND-TAG-C	UGND,TAG CABLE MARKER (WHITE),Cable	9	\$2.93
UPTM-ELJS-2-15-200	UPTM,Elbow with Jacket Seal,2,15kV,200A	6	\$158.70
UPTM-FT2P-15-200	UPTM,Feedthrough 2Pt,Portable, 15kV,200A	3	\$196.56
UPTM-FT3S-15-200	UPTM,Feedthrough,3 Pt,Straps, 15kV, 200A	3	\$273.58
UPTM-SB-15-200	UPTM,Standoff Bushing,15kV,200A	3	\$80.17
UPTM-SO-2-15	UPTM,Shrink Outdoor,2,15kV	3	\$59.19
URSG-D-168	URSG,Distr 1.68in OD	3	\$24.63
URSG-D-CGS1	URSG,Distr.Cable Grip Support 1grip	1	\$20.48
	Misc. Material	lot	\$1,225.16
	TOTAL NEW MATERIAL	TOTAL	\$7,350.94

## Work Order Cost Estimate For Distribution

Work Order #:

Project EDN012368

District: AEP Ohio  
Division: Western Ohio

Work Request # 60102680

Date 1/7/2016

## NEW MATERIAL - PERMANENT CONSTRUCTION

Account/ Assembly Unit	Description	Qty	Material Cost
ARM-12D-84D	ARM,12ft Double Wood,84in Dbl.Wd	2	\$408.88
ARM-12SF-GN-TH	ARM,12ft Sgl.Fiberglass,Gain,Tangent HD	3	\$673.92
ARM-9D-60S	ARM,9ft Double Wood,60in Sgl.Wd	1	\$113.14
ARM-BR-60S	ARM,Brace only Wood,60in Sgl.Wd	3	\$36.72
BKT-AC18-F	BKT,Arrestor/CO 18in (1Ph),Fbrgl's	2	\$54.89
BKT-AC243PH-F	BKT,Arrestor/CO 24in (3Ph),Fbrgl's	1	\$113.82
GUY-38SAS	GUY,Complete3'8"EHS ScrewAnc Sgl eye rod	1	\$44.33
PIN-XAH	Pin,Crossarm Heavy	3	\$12.98
PIN-XAL	Pin,Crossarm Light	24	\$98.02
PLD-BAND3472	PLD,Band, 3'4in X 72in, SS	3	\$47.22
PLD-BRACPSH	PLD,Gnd Brace Fittng (Push Brace)	1	\$55.57
PLD-TNG	PLD,Tongue Deadend	1	\$2.47
PLD-TNG-ARM	PLD, Tongue Deadend, Arm	8	\$11.25
PLD-WRAP4	PLD,Pole Wrap, 30in	1	\$8.82
POL-40-5	Pole,40ft,Class 5	1	\$202.20
POL-45-4	Pole,45ft,Class 4	1	\$284.58
POL-50-2	Pole,50ft,Class 2	1	\$442.00
SAA-3-CV	SAA,3 inch,Clevis	12	\$52.68
SAA-4-CV-40	SAA,4 inch,Clevis,4'0	1	\$5.15
ARD-40	ARD,4'0 AA or AS (Armor Rod)	5	\$35.45
ARD-556	ARD,556 AL (Armor Rod)	21	\$420.70
CNC-NTI-2	CNC,splice Non-Tension Insul,#6-#2	4	\$2.61
CNC-SNB-10	CNC,Splice Non-Tension Bare,#336-#1033	7	\$24.99
CND-HLC2	CND,Hot Line clamp #6-#2	3	\$18.75
CND-S20	CND,Stirrup #2 Open	3	\$16.31
CND-XL5	CND,eXtension Link 5 1/2 in	3	\$18.43
CON-40-AAA-1-B	CON,#4 0 AWG,Alum Alloy,One,Bare	100	\$43.67
CON-556-AAL-1-B	CON,556 5 MCM,All Aluminum,One,Bare	300	\$284.06
DEC-500CU	DEC,#3/0 - #500 CU	1	\$19.96
DEC-795AL	DEC,#477 - #795 AL,AS	9	\$150.06
DEG-2-PNA	DEG,#2,Primary Neutral Al	1	\$1.08
DEG-40-PNA	DEG,4'0,Primary Neutral Al	1	\$3.65
DEG-4-DP	DEG,#4,DuPlex	5	\$4.20
EQL-1-4-C-4-C-E1	EQL,1 Phase,#4,Sol,#4,Sol,100a Eq C'0	1	\$8.65
GND-CW-4	GND,Copperweld,#4	1	\$95.09
GND-CW-4-TD	GND,Copperweld,#4,Theft Deterrent	1	\$52.40
GND-EERIV-4	GND,Extend Gnd To Guy/Eq'RivNut,#4	1	\$9.68
GND-MD	GND,Wire Mldg Only	1	\$2.39
INS-13-D-P	INS,2.4-13 2kV,Deadend,Porcelain	3	\$18.28
INS-13-P-P	INS,2.4-13 2kV,Pin,Porcelain	6	\$17.39
INS-13-P-P-C	INS,2.4-13 2kV,Pin,Porcelain,Corr	3	\$20.07
INS-15-D-S	INS,15kV,Deadend,Polymer	6	\$48.51
INS-15-P-P	INS,15kV,Pin,Porcelain	13	\$981.11
INS-35-D-S	INS,35kV,Deadend,Polymer	3	\$39.85
INS-35-P-P	INS,35kV,Pin,Porcelain	9	\$58.32
SWI-15-CO1-100-L	SWI,15kV,Line Cutout 1PH,100A,Link	1	\$60.75
TIE-40-1TP-J	TIE,4'0 AWG,Single Top,J Neck	1	\$3.20
TIE-40-SP3-N	TIE,4'0 AWG,Spool 3in,Neutral Sec	5	\$17.05
TIE-556-1TP-J	TIE,556 KCM,Single Top,J Neck	10	\$49.03
TIE-556-2TP-J	TIE,556 KCM,Double Top,J Neck	8	\$157.92
TIE-6-ALH-15	TIE,6 AWG,AL Hand Tie,15kV (F Neck)	18	\$1.10
URSR-2-DSO	URSR,2in,Dist Stand Off	1	\$77.70



ARR-10-R	ARR,10kV,Riser Pole	1	\$27.74
UGND-TAG-C	UGND,TAG CABLE MARKER (WHITE),Cable	1	\$0.33
UPTM-SO-10-35	UPTM,Shrink Outdoor,1'0,35kV	1	\$58.51
URSG-D-215	URSG,Distr,2.15in OD	1	\$6.24
URSG-D-CGS1	URSG,Distr,Cable Grip Support 1grip	1	\$20.21
ARR-10-X	ARR,10kV,Transformer	2	\$47.59
EQL-3-4-C-10-S-X	EQL,3 Ph,#4,CU Sol,1'0,CU Str,Xfr	1	\$80.09
XCO-15P-100-10	XCO,15kVPolymer,100 Amp,10kA	2	\$136.69
XRD-APL	XRD,Animal Proof w/Lead cover	3	\$29.86
XRD-EAG	XRD,Electrostatic Animal Guard	3	\$27.37
GND-LG-SL	GND,Lug,St Lt	1	\$1.68
CNC-NTS-2	CNC, Non-Tension Splice for Serv,#6-#2	8	\$2.61
UGND-TAG-S	UGND,TAG CABLE MARKER (WHITE),Svc	12	\$1.95
URSG-S-175	URSG,Service,1.5in to 1.75in	2	\$14.46
URSG-S-CGS1	URSG,Serv,Cable Grip Support 1grip	2	\$20.21
URSR-3-SSO	URSR,3in,Service,Stand Off	2	\$103.97
USVC-NTS-40	USVC, Non Tension Splice,4'0	8	\$2.61
	Misc Material	lot	\$1,202.63
	TOTAL NEW MATERIAL	TOTAL	\$7,215.80

Work Order Cost Estimate For Distribution

Metrosz Ale

Work Order # Project EDN012368  
 District: AEP Ohio  
 Division: Western Ohio  
 Work Request # 60097154 Date: 1/7/2016

NEW MATERIAL - PERMANENT CONSTRUCTION

Account/ Assembly Unit	Description	Qty	Material
ARM-9D-60S	ARM,9ft Double Wood,60in Sgl Wd	3	\$336.73
ARM-BR-60S	ARM,Brace only Wood,60in Sgl Wd	3	\$36.64
BKT-ARML-S	BKT,Crossarm inLin,Steel	12	\$43.86
PIN-XAH	Pin,Crossarm Heavy	2	\$7.46
PLD-TNG-ARM	PLD, Tongue Deadend, Arm	12	\$16.88
PLD-WRAP4	PLD,Pole Wrap, 30in	1	\$8.82
POL-50-1	Pole,50ft,Class 1	1	\$512.40
SAA-3-CV	SAA,3 inch,Clevis	1	\$4.37
ARR-10-L	ARR,10kV,Line	11	\$261.74
CNC-LUG-10	CNC,Terminal Pad Lug.#336-#1033	12	\$70.30
CNC-SNB-10	CNC,Splice Non-Tension Bare.#336-#1033	13	\$46.50
CND-HLC2	CND,Hot Line clamp #6-#2	12	\$74.98
CND-S2O	CND,Stirrup #2 Open	12	\$65.28
DEC-795AL	DEC,#477 - #795 AL,AS	12	\$199.84
GND-CW-4	GND,Copperweld.#4	1	\$95.09
GND-CW-4-TD	GND,Copperweld,#4,Theft Deterrent	1	\$52.40
INS-13-P-P	INS,2.4-13.2kV,Pin,Porcelain	2	\$5.80
INS-15-D-S	INS,15kV,Deadend,Polymer	12	\$97.02
SWI-15-UHD1-600-H	SWI,15kV,Underhng 1PH,600A,Hook	6	\$1,331.84
TIE-40-SP3-N	TIE,4/0 AWG,Spool 3in,Neutral/Sec	1	\$3.41
	Misc Material	lot	\$654.27
	TOTAL NEW MATERIAL	TOTAL	\$3,925.63

## Work Order Cost Estimate For Distribution

Work Order # \_\_\_\_\_ Project EDN012368  
 District AEP Ohio  
 Division Western Ohio  
 Work Request # 60407732 Date 1/7/2016

## NEW MATERIAL - PERMANENT CONSTRUCTION

Account/ Assembly Unit	Description	Qty	Material
ANC-SHM-8-84-S58	ANC,Sgl Hlx Mach,8in,84in,Sg Eye 5/8in	1	\$22.47
ARM-8D-60S	ARM,8ft Double Wood,60in Sgl Wd	1	\$67.10
GYD-MPY	GYD,Marker-Plastic-Yellow	1	\$2.21
GYF-38-78W-I	GYF,3/8,78Wire mt,Insulator Adder	1	\$18.42
GYF-38-D-24P-EP	GYF,3/8,Down,24in Pole mt.EyePlate	1	\$30.60
GYW-38	GYW,3/8 in. EHS (15,400 lbs)	40	\$10.29
PLD-TNG-ARM	PLD, Tongue Deadend, Arm	3	\$4.66
POL-40-5	Pole,40ft,Class 5	1	\$197.94
SAA-3-CV	SAA,3 inch,Clevis	1	\$4.73
CNC-SNB-2	CNC,Splice Non-Tension Bare.#6-#2	4	\$3.91
DEC-20AL	DEC,#4 - #2/0 AA,AL,AS	3	\$19.37
DEG-2-PNA	DEG,#2,Primary Neutral Al	1	\$1.08
GND-EE-4	GND,Extend Gnd To Guy/Eq.#4	1	\$7.59
INS-15-D-S	INS,15kV,Deadend,Polymer	3	\$24.26
	Misc Material	lot	\$82.33
	TOTAL NEW MATERIAL	TOTAL	\$496.96

Heritage Manor

Work Order Cost Estimate For Distribution

Work Order #: Project EDN012368  
 District: AEP Ohio  
 Division: Western Ohio  
 Work Request #: 60408031 Date: 1/7/2016

NEW MATERIAL - PERMANENT CONSTRUCTION

Account/ Assembly Unit	Description	Qty	Material
BKT-ARML-S	BKT,Crossarm inLin,Steel	3	\$12.82
BKT-IP8-F	BKT,Insulator Post 8in,Fbrgls	2	\$41.54
BKT-RAT3-A	BKT,Riser Arr/Term 3Ph,Alum	2	\$93.26
BKT-RAT3-F	BKT,Riser Arrestor/Term 3Ph.Fbrgls	2	\$170.80
CND-HLC2	CND,Hot Line clamp #6-#2	6	\$37.48
CND-S2O	CND,Stirrup #2 Open	6	\$32.58
EQL-1-4-C-4-C-E1	EQL,1 Phase,#4,Sol,#4,Sol,100a Eq C/O	6	\$54.64
GND-CW-4	GND,Copperveld,#4	2	\$205.46
GND-CW-4-TD	GND,Copperveld,#4,Theft Deterrent	1	\$57.51
GND-HW-4-TD	GND,Hidewire,#4,Theft Deterrent	1	\$58.77
INS-13-P-P	INS,2.4-13.2kV,Pin,Porcelain	2	\$5.80
SWI-15P-CO1-100-H	SWI,15kVYPolymer,Line Cutout 1ph,100A.Hk	3	\$193.38
TIE-4-CUH-35	TIE,4 AWG,CU Hand Tie,35kV (F Neck)	12	\$5.66
UGND-LCK7-C	UGND,PADLOCK #621A 7/8in BRASS,Cable	1	\$5.69
URSR-3-DSO	URSR,3in,Dist Stand Off	2	\$210.24
ARR-10-R	ARR,10kV,Riser Pole	6	\$167.50
UCON-2-AL-3-15-D	UCON,2 AWG,AL,Three Cond,15kV,Distr	912	\$3,687.77
UEGD-W13-4	UEGD,GRD 10FT CU WELD ROD(PAD BOX 3	1	\$18.48
UENC-15-CB-3-PM-62	UENC,15kV,Cabinet,3Ph,Padmnt,66X22	1	\$783.97
UENC-GS-F-31	UENC,Ground Sleeve,Fiberglass,30X18	1	\$88.01
UGND-BWC14-C	UGND,Bushing Well Cap 14.4 kv, Cable	6	\$101.75
UGND-FTBW115-C	UGND,Feed thru Bshg Well Insert15kv,Cbl	6	\$580.86
UGND-TAG-C	UGND,TAG CABLE MARKER (WHITE),Cable	18	\$5.87
UPTM-ELJS-2-15-200	UPTM,Elbow with Jacket Seal,2,15kV,200A	12	\$317.40
UPTM-FT2P-15-200	UPTM,Feedthrough 2Pt,Portable, 15kV,200A	3	\$196.56
UPTM-FT4S-15-200	UPTM,Feedthrough,4Pt.,Straps,15kV, 200A	3	\$309.49
UPTM-SO-2-15	UPTM,Shrink Outdoor,2,15kV	6	\$118.38
URSG-D-168	URSG,Distr.1.68in OD	6	\$49.26
URSG-D-CGS1	URSG,Distr,Cable Grip Support 1grip	2	\$40.96
URSG-D-CP	URSG,Distr,Cable Postioner	6	\$76.10
	Misc. Material	lot	\$1,546.00
	TOTAL NEW MATERIAL	TOTAL	\$9,273.99



## Work Order Cost Estimate For Distribution

Work Order #:

Project EDN012368

District:

AEP Ohio

Division:

Western Ohio

Work Request #

60393615

Date: 1/7/2016

## NEW MATERIAL - PERMANENT CONSTRUCTION

Account/ Assembly Unit	Description	Qty	Material
ANC-SHM-8-84-S58	ANC,Sgl Hlx Mach,8in,84in,Sg Eye 5/8in	1	\$22.47
BKT-AC12-F	BKT,Arrestor/CO 12in (1Ph),Fbrgls	2	\$46.97
CNA-AB	CNA, Attach Cond Bolted	1	\$0.00
CNA-AT	CNA, Attach Cond Tie or clamp	20	\$0.00
CNA-TR	CNA, Transfer Conductor	4	\$0.00
CNC-NTI-2	CNC,splice Non-Tension Insul,#6-#2	4	\$2.60
CNC-NTI-40	CNC,splice Non-Tension Insul,#1/0-#4/0	11	\$7.18
CNC-NTS-2	CNC, Non-Tension Splice for Serv,#6-#2	18	\$5.87
CNC-NTS-40	CNC,Non-Tension Splice for Serv.,1/0-4/0	75	\$25.43
CNC-SNB-2	CNC,Splice Non-Tension Bare,#6-#2	12	\$11.72
DEC-20AL	DEC,#4 - #2/0 AA,AL,AS	2	\$12.90
DEG-20-SNA	DEG,2/0,Secondary Neutral Al	1	\$1.08
DEG-2-PNA	DEG,#2,Primary Neutral Al	2	\$2.16
GND-EE-4	GND,Extend Gnd To Guy/Eq,#4	1	\$7.59
GUY-38SAS	GUY,Complete3/8"EHS ScrewAnc Sgl eye rod	1	\$44.47
GYD-MPY	GYD,Marker-Plastic-Yellow	1	\$2.21
GYF-38-D-N-GH	GYF,3/8,Down,None,Guy Hook	1	\$11.71
GYW-38	GYW,3/8 in. EHS (15,400 lbs)	40	\$10.29
INS-13-P-P	INS,2.4-13.2kV,Pin,Porcelain	1	\$2.90
INS-15-D-S	INS,15kV,Deadend,Polymer	2	\$16.18
PLA-DLOC	PLA,Difficult Location	36	\$0.00
PLD-BRACPLK	PLD,Gnd Brace Plank Brace	1	\$6.96
PLD-TNG	PLD,Tongue Deadend	2	\$5.36
SAA-3-CV	SAA,3 inch,Clevis	2	\$9.46
SVD-SG2	SVD,Service Grip,#2	4	\$1.18
	Misc Material	lot	\$51.34
	TOTAL NEW MATERIAL	TOTAL	\$308.03

Work Order Cost Estimate For Distribution

Work Order #:

Project EDN012368

District: AEP Ohio  
 Division: Western Ohio

Work Request #: 60396532

Date: 1/7/2016

NEW MATERIAL - PERMANENT CONSTRUCTION

Account/ Assembly Unit	Description	Qty	Material
BKT-AC12-F	BKT.Arrestor/CO 12in (1Ph).Fbrgls	6	\$140.91
CNC-NTI-10	CNC.splice Non-Tension Insul.336-1033	34	\$260.29
CNC-NTI-2	CNC.splice Non-Tension Insul.#6-#2	18	\$11.73
CNC-NTI-40	CNC.splice Non-Tension Insul.#1/0-#4/0	19	\$12.38
CND-HLC2	CND.Hot Line clamp #6-#2	3	\$18.75
CND-S20	CND.Stirrup #2 Open	3	\$16.29
EQL-1-4-C-4-C-E1	EQL.1 Phase.#4.Sol.#4.Sol.100a Eq C/O	3	\$27.33
GND-CW-4	GND.Copperweld,#4	2	\$205.46
GND-CW-4-TD	GND.Copperweld.#4,Theft Deterrent	2	\$115.02
SWI-15P-CO1-100-H	SWI.15kVYPolymer.Line Cutout 1ph.100A,Hk	2	\$128.92
UGND-LCK7-C	UGND.PADLOCK #621A 7/8in BRASS,Cable	5	\$28.45
URSR-2-DSO	URSR.2in.Dist Stand Off	3	\$236.55
URSR-3-DSO	URSR.3in.Dist Stand Off	12	\$1,261.44
ARR-10-R	ARR.10kV.Riser Pole	3	\$83.76
UCON-2-AL-1-15-D	UCON.2 AWG.AL,Single Cond.15kV.Distr	2433	\$3,803.02
UCON-350-AL-3-600-D	UCON.350.AL,Three Cond,600V.Distr	1976	\$4,865.17
UEGD-SNP	UEGD.SEC. NEUTRAL GROUND, PADMOU	4	\$16.32
UEGD-W1-4	UEGD.GRD 10FT CU WELD ROD-PAD BOX 1	1	\$16.12
UEGD-W8-4	UEGD.GRND CU WELD ROD SINGLE.#4	4	\$51.80
UENC-15-CB-1-PM-32	UENC.15kV.Cabinet.1Ph.Padmnt.36X22	1	\$373.78
UENC-600-PD-PLC-14-	UENC.600V.Pedestal,Plastic.10X14,OH	3	\$218.85
UENC-GS-F-32	UENC.Ground Sleeve.Fiberglass.36X22	1	\$141.41
UENC-SB-F-37	UENC.Splice Box.Fiberglass.37X43	4	\$917.36
UGND-BWC14-C	UGND. Bushing Well Cap 14.4 kv. Cable	4	\$67.84
UGND-FI300R	UGND. Fault Indicator 300A Reset	8	\$546.00
UGND-TAG-C	UGND.TAG CABLE MARKER (WHITE).Cable	122	\$39.78
UPTM-ELIS-2-15-200	UPTM.Elbow with Jacket Seal,2.15kV,200A	11	\$290.95
UPTM-FT2P-15-200	UPTM.Feedthrough 2Pt.Portable. 15kV.200A	2	\$131.04
UPTM-FT3S-15-200	UPTM.Feedthrough.3 Pt.Straps. 15kV. 200A	1	\$91.19
UPTM-SO-2-15	UPTM.Shrink Outdoor.2.15kV	3	\$59.19
URSG-D-168	URSG.Distr.1.68in OD	2	\$16.42
URSG-D-215	URSG.Distr.2.15in OD	1	\$6.24
URSG-D-23D	URSG.Distr.2.3 OD	1	\$6.80
URSG-D-250	URSG.Pri/Sec.2in to 2.50in	11	\$387.42
URSG-D-CGS1	URSG.Distr.Cable Grip Support 1grip	15	\$307.20
URSG-D-CP	URSG.Distr.Cable Postioner	11	\$139.48
USTM-CS6-350-D	USTM.Covered Set Screw 6Pos.350.AL.Distr	9	\$64.26
UXST-CS6-58-350	UXST.Covered Set Screw 6Pos..5/8".350	8	\$67.20
UXST-SS8-58-350	M UXST.Set Screw Strght Bar 8Pos.5/8".350	4	\$24.32
	Misc. Material	tot	\$3,039.29
	TOTAL NEW MATERIAL	TOTAL	\$18,235.73

Logan Ave

### Work Order Cost Estimate For Distribution

Work Order #:

Project Number: EDN012368

District: AEP Ohio  
Division: Western Ohio

Work Request #: 60408832

Date: 1/7/2016

#### SALVAGE MATERIAL - PERMANENT CONSTRUCTION

Account/ Assembly Unit	Description	Qty	Material Cost
POL-45-4	Pole,45ft,Class 3	1	\$0.00
	Scrap Aluminum	n/a	\$0.00
	Scrap Copper	n/a	\$0.00
	Scrap Steel	n/a	\$0.00
	TOTAL SALVAGE PERMANENT CONSTRUCTION	TOTAL	\$0.00

Lima Ave

# Work Order Cost Estimate For Distribution

Work Order #:

District:

Division:

Work Request #:

AEP Ohio  
Western Ohio

60411644

Project Number: EDN012368

Date: 1/7/2016

## SALVAGE MATERIAL - PERMANENT CONSTRUCTION

Account/ Assembly Unit	Description	Qty	Material Cost
POL-35-5	Pole, 35ft, Class 5	7	\$0.00
POL-40-4	Pole, 40ft, Class 4	3	\$0.00
POL-40-5	Pole, 40ft, Class 5	4	\$0.00
POL-45-2	Pole, 45ft, Class 2	1	\$0.00
POL-45-3	Pole, 45ft, Class 3	4	\$0.00
POL-45-4	Pole, 45ft, Class 4	4	\$0.00
POL-45-5	Pole, 45ft, Class 5	4	\$0.00
POL-50-2	Pole, 50ft, Class 2	3	\$0.00
POL-50-3	Pole, 50ft, Class 3	1	\$0.00
	Scrap Aluminum	1	\$0.00
	Scrap Copper	1	\$0.00
	Scrap Steel	1,393 lbs	\$850.00
		1368 lbs	\$3400.00
		1250	\$150.00
TOTAL SALVAGE PERMANENT CONSTRUCTION			
TOTAL			\$4400.00

Broad Ave

### Work Order Cost Estimate For Distribution

Work Order #: \_\_\_\_\_ Project Number: EDN012368  
District: AEP Ohio  
Division: Western Ohio  
Work Request #: 60377571 Date: 1/7/2016

#### SALVAGE MATERIAL - PERMANENT CONSTRUCTION

Account/ Assembly Unit	Description	Qty	Material Cost
POL-30-6	Pole,30ft,Class 6	3	\$0.00
POL-40-4	Pole,40ft,Class 4	3	\$0.00
	Scrap Aluminum	486 lbs	\$296.00
	Scrap Copper	0	\$0.00
	Scrap Steel	10	\$0.00
	TOTAL SALVAGE PERMANENT CONSTRUCTION	TOTAL	\$296.00



Melrose Ave

### Work Order Cost Estimate For Distribution

Work Order #:

Project Number: EDN012368

District: AEP Ohio  
Division: Western Ohio

Work Request #: 60102680

Date: 1/7/2016

#### SALVAGE MATERIAL - PERMANENT CONSTRUCTION

Account/ Assembly Unit	Description	Qty	Material Cost
POL-30-5	Pole,30ft,Class 5	1	\$0.00
POL-50-2	Pole,50ft,Class 2	1	\$0.00
	Scrap Aluminum	180 lbs	\$110.00
	Scrap Copper	5 lbs	\$12.00
	Scrap Steel	100 lbs	\$13.00
	TOTAL SALVAGE PERMANENT CONSTRUCTION	TOTAL	\$135.00

Malrose Ave

### Work Order Cost Estimate For Distribution

Work Order #: \_\_\_\_\_ Project Number: EDN012368  
District: AEP Ohio  
Division: Western Ohio  
Work Request #: 60097154 Date: 1/7/2016

#### SALVAGE MATERIAL - PERMANENT CONSTRUCTION

Account/ Assembly Unit	Description	Qty	Material Cost
	None		\$0.00
	TOTAL SALVAGE PERMANENT CONSTRUCTION	TOTAL	\$0.00

Heritage Manor

### Work Order Cost Estimate For Distribution

Work Order #:

Project Number: EDN012368

District: AEP Ohio  
Division: Western Ohio

Work Request #: 60407732

Date: 1/7/2016

#### SALVAGE MATERIAL - PERMANENT CONSTRUCTION

Account/ Assembly Unit	Description	Qty	Material Cost
POL-35-5	Pole, 35ft, Class 5	2	\$0.00
POL-45-4	Pole, 45ft, Class 4	1	\$0.00
	Scrap Aluminum	143 lbs	\$87.00
	Scrap Copper	5 lbs	\$13.00
	Scrap Steel	150 lbs	\$15.00
	TOTAL SALVAGE PERMANENT CONSTRUCTION	TOTAL	\$115.00

Northern Heights

### Work Order Cost Estimate For Distribution

Work Order #:

Project Number: EDN012368

District: AEP Ohio  
Division: Western Ohio

Work Request #: 60393615

Date: 1/7/2016

#### SALVAGE MATERIAL - PERMANENT CONSTRUCTION

Account/ Assembly Unit	Description	Qty	Material Cost
POL-35-5	Pole,35ft,Class 5	3	\$0.00
	Scrap Aluminum	698 lbs	\$426.00
	Scrap Copper	15 lbs	\$35.00
	Scrap Steel	50 lbs	\$0.00
	TOTAL SALVAGE PERMANENT CONSTRUCTION	TOTAL	\$461.00

Northern Heights

### Work Order Cost Estimate For Distribution

Work Order #: \_\_\_\_\_ Project Number: EDN012368  
District: AEP Ohio  
Division: Western Ohio  
Work Request #: 60369532 Date: 1/7/2016

#### SALVAGE MATERIAL - PERMANENT CONSTRUCTION

Account/ Assembly Unit	Description	Qty	Material Cost
	Scrap Aluminum	15 lbs	\$9.12
	Scrap Copper	0	\$0.00
	Scrap Steel	0	\$0.00
	TOTAL SALVAGE PERMANENT CONSTRUCTION	TOTAL	\$9.12