

## Southern California Joint Pole Committee

279 E. Arrow Hwy., Suite 104  
San Dimas, CA 91773  
Phone (909) 599-3801  
Fax (909) 599-3825

April 16, 2025

A meeting of the **ad hoc Authorized Cost Elements Committee** took place on the above date, at 10:36 a.m. via teleconference. **Those in attendance were:**

Mr. Nick Van Stryk	City of Vernon (Petrelli Electric)
Ms. Claudia Arellano	City of Vernon
Ms. Aarize Dizon	Crown Castle NG West Inc.
Mr. Jeremy Effinger	Crown Castle NG West Inc.
Mr. John Bacon	City of Los Angeles
Ms. Silvana Ray	Southern California Edison
Ms. April DeBarge	Southern California Edison
Mr. Kevin Flores	Southern California Edison
Ms. Carla Stephen	Southern California Edison
Ms. Shelby Mulvehill	Southern California Edison
Mr. Kristoffer Scheetz	Southern California Edison
Ms. Kay Black	AT&T California
Mr. Aaron Cochran	AT&T California
Mr. Robert Stanard	AT&T California
Mr. Barry Consulter	AT&T California
Mr. Alvin Robielos	AT&T California
Ms. Joy Young	AT&T California
Mr. Alex Parra	City of Riverside
Ms. Maria Ortiz	MCI Metro ATS/MCI Telecommunications/XO Communications
Mr. Irvin Orzuna	City of Glendale
Mr. Aproov Verma	City of Glendale
Mr. Salvador Zambrano	City of Burbank
Ms. Yesenia Delgado	Time-Warner Cable
Ms. Lynne LaFrenais	Bear Valley Electric Service, Inc.
Mr. Ben Coffey	City of Banning
Mr. David Campo	City of Lompoc
Ms. Alicia Smith	Sprint Nextel/Sprint Communications
Ms. Shawn Henderson	T-Mobile USA
Ms. Tamara Zaki	Boldyn Networks US LLC
Ms. Patti Ringo	Sonic Telecom, LLC
Ms. Angela Pranata	Committee Staff
Ms. Kathleen Allen	Committee Staff

Mr. Van Stryk called the meeting to order at **10:36 a.m.**

### **Agenda Item 1 – Review of prior month’s minutes**

Mr. Van Stryk opened the meeting by asking if there were any questions or concerns regarding the previous month’s meeting minutes. No members commented or expressed any concerns.

### **Agenda Item 2 – Item 1801: Review of Pole Price Calculations (2/19/2025)**

Mr. Van Stryk inquired if anyone had populated column 10 or noticed any variances between companies.

Ms. Black responded that AT&T California does not populate column 10. They were trying to understand when and why a company would use it, particularly in cases where it might qualify for mutual benefit. AT&T California expressed concern that it appeared to be a double dip into direct labor costs and sought clarification.

Mr. Van Stryk confirmed that the discussion was specific to pole prices. Ms. Black noted that most companies do populate column 10 and asked if others could explain their methods, as that was the assigned homework. They emphasized the need to understand how the numbers were derived and why they were not considered double dipping. There were no comments from members.

Mr. Van Stryk explained that his company typically calculates it as a percentage of the cost, including labor for coordinating pole purchases, storage, and other items. He invited others who filled in the column to share their methods, noting that while the definition exists, the allocation varies.

Mr. Van Stryk acknowledged the lack of responses and suggested revisiting the topic next month.

Ms. Black mentioned a pending action item for AT&T California. They were close to finalizing average prices and hoped to distribute them before the next meeting. They clarified that their concern extended beyond column 10—they sought clarification on all columns to establish a consistent definition of “average.” They pointed out discrepancies in labor hours used by different utilities and encouraged members to review the definitions and be prepared to explain their numbers at the next meeting.

Ms. Ray raised a question about the spreadsheet template used to input data, which automatically calculates values in column 10 for general administrative costs. She asked who created the formula used in that spreadsheet.

Mr. Van Stryk asked for clarification on whether Ms. Ray was referring to column 10 in the pole price matrix. Ms. Ray clarified she was referring to the Authorized Costs spreadsheet, specifically column H, row 8, labeled “General and Admin.” Mr. Van Stryk clarified that Item 1801 pertained specifically to the pole price matrix.

Ms. Ray confirmed she had been looking at the wrong spreadsheet. Mr. Van Stryk elaborated that in reviewing averages, it was important to consider both the average hourly labor rate and the number of hours used, as variations

in either could affect the final cost. He mentioned an example in which a company's average hourly labor rate is low but the hours are high, and vice versa.

Ms. Black mentioned AT&T California was nearly ready to send out a visual representation for review.

Ms. Ray noted that both the pole matrix and the authorized costs spreadsheet contained formulas that automatically populated certain columns. She suggested creating a data dictionary to explain how these formulas were developed and what they calculate. She observed that adjusting hours in one column affected calculations in others and expressed interest in understanding whether these formulas were internal or standardized.

Mr. Van Stryk pointed out that some formulas that Ms. Ray previously mentioned were added by SCE internally. The committee reviewed the pole price matrix worksheet from SCE and Mr. Van Stryk pointed out that SCE added the standard general admin expense percentage under column 10. Mr. Van Stryk stated he did not know how SCE did it but looked like the formula was added by SCE. Mr. Van Stryk added that a predetermined calculation on the pole price sheet can be found for column 5 and column 11 (e.g., hours multiplied by labor rate). Those columns have sums or multipliers.

He concluded by expressing hope that his explanation addressed Ms. Ray's question.

### **Agenda Item 3 – Item 1802: Review of Authorized Cost Calculations**

Mr. Van Stryk stated the need to create a new Word document with examples to clarify consistent calculation methods. He admitted he had not started the document and asked for volunteers to contribute examples.

Ms. Black suggested that documents could be obtained from Ms. Pranata, and that she had already asked Ms. Pranata for the Authorized Costs spreadsheets. Mr. Van Stryk noted that while the documents show the column values, they do not explain how those values were calculated. He mentioned some examples such as an average per job or estimated amount per job, to get the right labor value for the labor class of the people involved in the action. He emphasized the need for a variety of examples to reflect differences between communication and power members.

AT&T California volunteered to collaborate on the spreadsheet and assist with the effort, acknowledging that they had raised the initial questions. Mr. Van Stryk agreed to coordinate via email to schedule a session offline.

Mr. Van Stryk commented that he was supposed to figure out whether driving out to perform an operation and returning should be considered part of that operation and determine if the operation should include the replacement process and whether theoretical travel costs or average capital costs should be waived or excluded, especially when overlapping with other operations. Mr. Van Stryk noted that both cost sheets appeared to include travel time. Mr. Van Stryk questioned whether travel time should be separated from the authorized cost operation if it had already been accounted for during pole installation. Mr. Van Stryk acknowledged that sometimes a return trip is necessary, which

complicates the classification. He concluded that he would revisit this item next month.

Ms. Black clarified that technically, only the pole installation qualifies for mutual benefit. Any return trip would likely be for the company's own work and should not be included in the mutual benefit calculation.

Mr. Van Stryk mentioned that cement repair, often associated with pole replacement, does not always involve the same crew or travel time. Therefore, it should not be assumed that the same travel time applies.

Ms. Black reiterated that for authorized costs, there should be a separate calculation for each party performing specific tasks like concrete repair.

Mr. Van Stryk responded that the original point was to determine whether travel costs included in pole replacement should be excluded from authorized costs if the same travel occurred. He planned to investigate whether any authorized costs could justifiably exclude travel time when the operation coincided with pole installation.

Ms. Black agreed that travel related to pole placement should be included in the pole price but maintained that it should not factor into the authorized cost equation, as the two are separate.

Mr. Van Stryk acknowledged this and moved on to the next agenda bullet item, asking if any members had submitted their methods for calculating costs related to Items 22, 82, and 83. Ms. Pranata confirmed that no responses had been received. Mr. Van Stryk decided to table the item for the next meeting.

#### **Agenda Item 4 – Item 1803: Review of Authorized Tree Trimming Costs for Jointly Owned Space**

Mr. Van Stryk asked if tree trimming was discussed in the Routine Revision meeting, and Ms. Ortiz confirmed it was not. Mr. Van Stryk requested that members who perform tree trimming internally submit cost data for three categories listed on the agenda. He noted that the City of Vernon uses a separate contractor, so he might not be able to provide a breakdown. However, if any company uses a contractor or performs the work themselves, they are encouraged to submit data to help establish an authorized cost.

Ms. LaFrenais stated that she had submitted all of their tree trimming costs to Ms. Pranata within the past month. Mr. Van Stryk said he would follow up with Ms. Pranata to review the submission.

Ms. Ray asked whether Item 1803 was related to Routine Handbook Item 14.7 or if it was a proposal to create a new authorized cost for tree trimming. Mr. Van Stryk clarified that it was a proposal for a new authorized cost. He explained that during inspections, brush around the base of jointly owned poles was identified as an access issue and needed to be trimmed. The group discussed whether this justified a joint expense.

Mr. Van Stryk elaborated that if a utility like Edison performed tree trimming in a jointly owned power space, or cleared branches from an adjacent line not owned by them, it could be considered a joint expense. Similarly, if a communication member trimmed around the communication space shared by

multiple members, they should be able to recoup some of the cost using Form 2, based on the authorized cost.

Mr. Van Stryk proposed three categories for tree trimming costs, power space trimming, communication space trimming, and base of pole/climbing space trimming. Mr. Van Stryk noted that the costs might differ between these categories and should be evaluated separately. Ms. Ray thanked him for the clarification.

Mr. Van Stryk suggested that Edison, with its internal team or contractor, could provide valuable data. He planned to review BVES's submission as a starting point for the next meeting.

Ms. Pranata asked if tree trimming should be added to the Routine Revision committee agenda. Mr. Van Stryk suggested waiting until initial price data was reviewed, and the committee agreed to hold off until then.

### **Agenda Items 5 - Review of Pole Prices (Yearly – Standing Agenda/Placeholder)**

The committee will reopen this item in September 2025.

### **Agenda Item 6 - Review of Authorized Costs (Every two years – Standing Agenda/Placeholder)**

The committee will reopen this item in September 2026.

### **Agenda Item 7 – Miscellaneous / New Item Numbers**

Mr. Van Stryk asked if there were any other miscellaneous items. There were no questions or comments.

### **Agenda Item 8 – Review of Action Items**

1. Item 1801: Review of Pole Price Calculations: Column 10 still needs review. AT&T California was finalizing a spreadsheet and planned to send it out for review.
2. Item 1802: Review of authorized cost calculations:
  - Ms. Black and Mr. Van Stryk planned an offline meeting to clarify how authorized costs should be calculated. The goal is to create a new Word document that standardizes calculations across companies and more consistencies between submissions.
  - Members to share their methods for calculating costs for items 22, 82, and 83. Discuss cost differentiation among communication and power members for items 82 and 83. Discuss item 22 for power members.
3. Item 1803: Review of authorized tree trimming costs for jointly owned space:

- The committee will consider updating the Routine Handbook after receiving a few tree trimming cost submissions.
- Members who perform tree trimming should submit three separate cost breakdowns:
  - 1) Cost for trimming in the power space
  - 2) Cost for trimming in the communication space
  - 3) Cost for trimming around the base of the pole and in the climbing space (shared space).
- Decide whether to pursue creating a unique item number for easier billing between joint members.

The meeting adjourned at 11:04 a.m. The next meeting is scheduled for May 21, 2025.

Transcribed by Angela Pranata – Committee Staff

## **2025 DEFINITIONS OF POLE PRICE ELEMENTS**

1. **Pole Length** - Pole price elements are based upon the length, class of pole or groundline moment of pole set in a joint use situation.
2. **Direct Labor (Loaded)** – The AVERAGE non-premium hourly rate of field worker (shown in US dollars) that includes cost of associated benefits (i.e., medical, dental, vision, vacation, sick leave, etc.). The average non-premium hourly rate is the average between the high and the low hourly rate of the labor classification (or title) directly involved in setting the pole.
3. **Transport and Handling** – The AVERAGE amount of time (in hours and/or quarter-hour increments) directly related to the workers who load a pole onto a pole dolly, transport to the job site and return to the yard.
4. **Digging and Erecting** – The AVERAGE amount of man-hours of an average-sized crew for each company to excavate the pole hole, erect the pole, plumb the pole, backfill and compaction tamp the pole in place. The average total man-hours include setup and take down of the work operation per the WATCH manual. Excludes hand-digging and inaccessible to setting equipment costs. (revised 05/16/2017)
5. **Total Direct Labor (Loaded)** – This is calculated by multiplying direct labor (loaded) rate in column #2 times the hours in column #3 and column #4 on the Pole Price Matrix Worksheet. The total direct labor (loaded) is calculated by then summing or adding the results of these calculations together.
6. **Material Cost (F.O.B.) Pole** – The AVERAGE material expense (in US dollars including sales tax and transportation costs from supplier) of a pole delivered to the first destination point (usually a purchaser’s construction yard).
7. **Supply Expense** – The average expense for storing the pole prior to use (shown in US dollars), i.e., cost of storage (inventory expense). This is usually derived or calculated as a percentage of material cost of the pole. If the Supply Expense is already included within another defined expense on the Pole Price Matrix expense categories (i.e., Direct Labor (Loaded) or General & Administrative), use the appropriate designator provided in the “NOTES” of the Pole Price Matrix Worksheet to show under which pricing element these costs are already included.

8. **Equipment Expense** – The expense (shown in US dollars) of the equipment directly used in the placement or replacement of a jointly owned pole. The expenses should include fuel, oil, and average maintenance costs. For example, a combination digger/derrick vehicle, aerial personnel lift and direct supervision pickup truck is commonly associated with the pole replacement activity. If the Equipment Expense is already included within another defined expense on the Pole Price Matrix expense categories (i.e., Direct Labor (Loaded) or General & Administrative), use the appropriate designator provided in the “NOTES” of the Pole Price Matrix Worksheet to show under which pricing element these costs are already included.
9. **Engineering and Planning** – The average expense (shown in US dollars) for site survey, pole loading calculation and JPA document preparation for set/replacement of a jointly owned pole. This is calculated by labor hours for engineering and planning for the defined work steps multiplied by average direct (loaded) non-premium labor rate of the labor class (or title) doing the engineering and planning work. (That portion of work that is directly related to the joint pole replacement. This should not include work that is for the sole benefit of any member on record).
10. **General and Administrative** – The average expense for additional labor (shown in US dollars) for direct clerical support, direct supervision of the field crew and indirect supervision of the crew placing the pole. This is usually derived or calculated as a percentage of Direct Labor Rate.
11. **Total Cost** – The total cost to set/replace a jointly owned pole (shown in US dollars). Total cost also includes installation of pole tags and visibility strips. The Total Cost is calculated by summing or adding together the dollar values shown in columns #5, #6, #7, #8, #9, and #10 of the Pole Price Matrix Worksheet. (Revised 10/20/2021).
12. **Total Number of Joint Poles Set and Billed** – This is the number of jointly owned poles set and billed by a member utility in the previous calendar year. The SCJPC provides the total number. (revised 11/17/2017)

**2025 SCJPC POLE PRICE MATRIX WORKSHEET**  
For **Wood** Pole Set/ Replacement

Please submit to SCJPC by:  
October 31, 2024

SCJPC Member Utility submitting:

Person completing worksheet:

Call Back Telephone Number & Email:

Select: Weighted Average  \*\*\*\*\* Individual Costs  \*\*\*\*\*

1	2	3	4	5	6	7	8	9	10	11	12	
Pole Length	Pole Class	Direct Labor (Loaded)	Transport & Handling	Digging & Erecting	Total Direct Labor	Material Cost (FOB)	Supply Expense	Equipment Expense	1 Hour Engineering & Planning	General & Admin.	Total Cost	Total # Joint Poles Set
		(\$)	(Hours)	(Hours)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	
25'		0	0	0	0						0	
30'		0	0	0	0						0	
35'		0	0	0	0						0	
40'		0	0	0	0						0	
45'		0	0	0	0						0	
50'		0	0	0	0						0	
55'		0	0	0	0						0	
60'		0	0	0	0						0	
65'		0	0	0	0						0	
70'		0	0	0	0						0	
75'		0	0	0	0						0	
80'		0	0	0	0						0	
85'		0	0	0	0						0	
90'		0	0	0	0						0	
95'		0	0	0	0						0	
100'		0	0	0	0						0	
110'		0	0	0	0						0	

NOTE: If the Expense for any of these columns (i.e. Columns #7,#8,#9 and #10) are already included within another defined expense column on the Pole Price Matrix categories [i.e. Direct Labor (loaded) or General & Administrative], use the appropriate designator listed below to show under which Price Matrix element those expenses are already included. **Material cost must be provided to be included in pole prices. 05/16/2017**

- (\*) Cost Included in Column #2
- (\*\*) Cost Included in Column #6
- (\*\*\*) Cost Included in Column #10
- (\*\*\*\*\*) Please designate if you choose to publish your costs individually or be included in the weighted average

Due by: <b>October 31, 2024</b> <i>Please submit to <a href="mailto:angela@scjpc.net">angela@scjpc.net</a> in Excel format &lt;&lt;&lt;&lt;</i>								
<b>ENTER Member Code &amp; Company Name:</b>								
<b>PLEASE DO NOT DELETE ANY ROWS ***** PLEASE DO NOT DELETE ANY ROWS ***** PLEASE DO NOT DELETE ANY ROWS</b>								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
<b>POLE MAINTENANCE AND MISCELLANEOUS</b>								
<b>1</b> -Trenching/Moving 30'-35' WITH supply	<b>Power</b>			0				0
1-Trenching/Moving 40'-45' WITH supply	<b>Power</b>			0				0
1-Trenching/Moving 50'- 55' WITH supply	<b>Power</b>			0				0
1-Trenching/Moving 60'-65' WITH supply	<b>Power</b>			0				0
1-Trenching/Moving 70'-75' WITH supply	<b>Power</b>			0				0
1-Trenching/Moving 80'-85' WITH supply	<b>Power</b>			0				0
1-Trenching/Moving 90'-95' WITH supply	<b>Power</b>			0				0
1-Trenching/Moving 100' WITH supply	<b>Power</b>			0				0
<b>2</b> -Trenching/Moving 30'-35' WITHOUT supply	<b>Communication</b>			0				0
2-Trenching/Moving 40'-45' WITHOUT supply	<b>Communication</b>			0				0
2-Trenching/Moving 50'-55' WITHOUT supply	<b>Communication</b>			0				0
<b>3-A</b> - Lowering/Raising to Grade (one operation) 30'-35'	<b>Power</b>			0				0
3- Lowering/Raising to Grade (one operation) 40'-45'	<b>Power</b>			0				0
3- Lowering/Raising to Grade (one operation) 50'-55'	<b>Power</b>			0				0
3- Lowering/Raising to Grade (one operation) 60'-65'	<b>Power</b>			0				0
3- Lowering/Raising to Grade (one operation) 70'-75'	<b>Power</b>			0				0
3- Lowering/Raising to Grade (one operation) 80'-85'	<b>Power</b>			0				0
3- Lowering/Raising to Grade 90'-95'	<b>Power</b>			0				0
3- Lowering/Raising to Grade (one operation) 100'	<b>Power</b>			0				0
<b>3-B</b> - Lowering/Raising to Grade (one operation) 30'-35'	<b>Communication</b>			0				0
3- Lowering/Raising to Grade (one operation) 40'-45'	<b>Communication</b>			0				0
3- Lowering/Raising to Grade (one operation) 50'-55'	<b>Communication</b>			0				0
3- Lowering/Raising to Grade (one operation) 60'-65'	<b>Communication</b>			0				0
3- Lowering/Raising to Grade (one operation) 70'-75'	<b>Communication</b>			0				0
3- Lowering/Raising to Grade (one operation) 80'-85'	<b>Communication</b>			0				0
3- Lowering/Raising to Grade 90'-95'	<b>Communication</b>			0				0
3- Lowering/Raising to Grade (one operation) 100'	<b>Communication</b>			0				0
<b>4-A</b> - Straightening in Earth 30'-35'	<b>Power</b>			0				0
4- Straightening in Earth 40'-45'	<b>Power</b>			0				0
4- Straightening in Earth 50'-55'	<b>Power</b>			0				0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
4- Straightening in Earth 60'-65'	Power			0				0
4- Straightening in Earth 70'-75'	Power			0				0
4- Straightening in Earth 80'-85'	Power			0				0
4- Straightening in Earth 90'-95'	Power			0				0
4- Straightening in Earth 100'	Power			0				0
<b>4-B</b> - Straightening in Earth 30'-35'	Communication			0				0
4- Straightening in Earth 40'-45'	Communication			0				0
4- Straightening in Earth 50'-55'	Communication			0				0
4- Straightening in Earth 60'-65'	Communication			0				0
4- Straightening in Earth 70'-75'	Communication			0				0
4- Straightening in Earth 80'-85'	Communication			0				0
4- Straightening in Earth 90'-95'	Communication			0				0
4- Straightening in Earth 100'	Communication			0				0
<b>5-A</b> Removing From Service: Pulling (includes 1 hr pre-planning and engineering)	Both			0				0
<b>5-B</b> Removing From Service:Transporting	Both			0				0
<b>5-C</b> Removing From Service: Topping (based on cut and lowering of pole top)	Both			0				0
<b>5-D</b> Removing From Service: Disposal	Both			0				0
<b>5-E</b> Removing from service: Lowering	Both			0				0
<b>5-F</b> Removing From Service: Removal of steel truss (any size)	Both			0				0
<b>6-A</b> Pole Stubbing 8 Ft metal truss	Power			0				0
<b>6-B</b> Pole Stubbing 10-11 Ft metal truss	Power			0				0
<b>6-C</b> Pole Stubbing 11 Ft metal truss	Power			0				0
<b>6-D</b> Pole Stubbing 12 Ft metal truss	Power			0				0
<b>6-E</b> Pole Stubbing 13 Ft metal truss	Power			0				0
<b>6-F</b> Pole Stubbing 14 Ft metal truss	Power			0				0
<b>6-G</b> Pole Stubbing 15.5 Ftmatal truss	Power			0				0
<b>6-H</b> Pole Stubbing: Additional metal trusses (all sizes)	Power			0				0
<b>6-I</b> Pole Stubbing: Inaccessible to stubbing equipment (all sizes)	Power			0				0
<b>7 - Intentionally left blank</b>								
<b>8-A</b> Semi Cir. Pole Guards - Installation	Both			0				0
<b>8-B</b> Semi Cir. Pole Guards - Transferring	Both			0				0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
<b>9 Title: Hand Dig Pole Set/Hand Removal</b>								
<i>(does not apply to Sec 7.4 or Item 19)</i>								
<i>(revised 5/2024)</i>								
<b>9A</b> Hand Dig Pole Set/Hand Removal: Pole set: Not accessible to digging equipment	<b>Both</b>			0				0
<b>9B</b> Hand Dig Pole Set/Hand Removal: Pole set/removal: Accessible with conflict-must specify nature of conflict on F48, F7, or F2	<b>Both</b>			0				0
<b>9C</b> Hand Dig Pole Set/Hand Removal: Pole removal not accessible to removal equipment (hand dig only removal) (justification is necessary)	<b>Both</b>			0				0
<b>10 Title: Sidewalk/pavement repairs for placement, replacement, or removal of pole or anchor: (Permit and/or inspection fees, if any, are by special agreement) (See also JPR Section 19.6)</b>								
<b>10-A</b> Cement break and temporary repair	<b>Both</b>			0				0
<b>10-B</b> Asphalt break & repair	<b>Both</b>			0				0
<b>10-C</b> Cement saw cut brk&repair- <i>based on 25 square feet</i>	<b>Both</b>			0				0
<b>10-D</b> Cement saw cut brk&rpr- <i>based on 50 square feet</i>	<b>Both</b>			0				0
<b>10-E</b> ADA accessible ramp	<b>Both</b>			0				0
<b>11-Joint Rights of Way-by special agreement</b>								
<b>12-A</b> -Reserved for future use								
<b>12-B</b> Pole Inspect/Treat-Partial Dig	<b>Power</b>			0				0
<b>12-C</b> Pole Inspect/Treat-Sound&Bore	<b>Power</b>			0				0
<b>12-D</b> Pole Inspect/Treat-Full Treatment	<b>Power</b>			0				0
<b>12-E</b> Pole Inspect/Treat-Reject	<b>Power</b>			0				0
Note: May only billed once every 5 years								
<b>12-F</b> Pole Inspect/Treat-Re-inspection of reinforced poles (may only be billed once every 10 years)	<b>Power</b>			0				0
<b>13-A</b> Pole/anchor access obstructions: Clearing poles in State Responsibility area (Includes cost of contractor to perform activity and post Quality Control inspection)	<b>Power</b>			0				0
<b>13-B</b> Pole/anchor access obstructions: Removal of vegetation to facilitate the placement/replacement/removal of a pole	<b>Both</b>			0				0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
<b>13-C</b> Pole/anchor access obstructions: All other by Special Agreement Section 1.2 such as landscape/hardscape restoration written estimate required.								
<b>13-D</b> Traffic Control (By Special Agreement Section 1.2)								
<b>14-A</b> Failure to final JPA Administrative Fee (per pole cost) including correction of records	Both			0				0
<b>14-B</b> Failure to final JPA Administrative Fee (per pole cost) - Field verification only	Both			0				0
<b>14-C</b> JPA Administrative Fee (per pole cost) - Failure to Submit Pole Loading by Unauthorized Member (see Sec 4.1)								
<b>15-A</b> Pole Marking - Maintenance items only - Re-Tagging	Both			0				0
<b>15-B</b> Pole Marking - Maintenance items only- Replacing Visibility Strips	Both			0				0
<b>16-A</b> Backhoe 2/hr minimum	Both			0				0
<b>16-B</b> Backhoe - each additional Hour (inclusive operator & truck)	Both			0				0
<b>17 Title: Wood Pole Fiberglass wrap restoration:</b>								
<b>17-A</b> Wood pole fiberglass wrap-pole set in dirt(8-ft Standard)	Power			0				0
<b>17-B</b> Wood pole fiberglass wrap-pole in asphalt-(inc \$140 Asphalt/8-ft standard)	Power			0				0
<b>17-C</b> Wood pole fiberglass wrap-pole set in concrete-(inc \$245 concrete/8-ft standard)	Power			0				0
<b>17-D</b> Wood pole fiberglass wrap-Additional foot exceeding 8-ft standard	Power			0				0
<b>18-A</b> ModPole Material & Installation 9'	Power			0				0
<b>18-B</b> ModPole Material & Installation 14'	Power			0				0
<b>18-C</b> ModPole Material & Installation 18'	Power			0				0
<b>19-A</b> Costs for cut & kick: Pole placement located on street without riser and/or equipment ***	Power			0				0
<b>19-B</b> Costs for cut & kick: Pole placement located on street with riser and/or equipment ***	Power			0				0
<b>19-C</b> Costs for cut & kick: Pole placement on rear property with or without riser and/or equipment not accessible to digging equipment ***	Power			0				0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
<b>19-D</b> Costs for cut & kick: Pole placement located on street without riser and/or equipment ***	Communication			0				0
<b>19-E</b> Costs for cut & kick: Pole placement located on street with riser and/or equipment ***	Communication			0				0
<b>19-F</b> Costs for cut & kick: Pole placement on rear property with or without riser and/or equipment not accessible to digging equipment ***	Communication			0				0
<b>TRANSFER COSTS GUY WIRES</b>								
<b>20-Guy wires - transfer (overhead, span, arm, or anchor) including insulator if used:</b>								
<b>20- A</b> All types and sizes, each end	Power			0				0
<b>20- B</b> Sidewalk anchor guys (pipe brace and fittings, all sizes) Note: When necessary to relocate a guy insulator, add the following to above costs:	Power			0				0
<b>20-C</b> Insulator relocation	Power			0				0
<b>20- D</b> All types and sizes, each end	Communication			0				0
<b>20- E</b> Sidewalk anchor guys (pipe brace and fittings, all sizes) Note: When necessary to relocate a guy insulator, add the following to above costs:	Communication			0				0
<b>20-F</b> Insulator relocation	Communication			0				0
<b>TRANSFER COSTS - POWER CIRCUITS</b>								
<b>21 Crossarms - raising, lowering, or transferring of all size crossarms whether in flat, vertical, sidearm or triangular configuration, including the insulators:</b>								
<b>21 - A 0-7.5 kv single Arm (includes service arm)</b>								
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
<b>21 - B 0-7.5 kv double arm</b>								
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
<b>21 - C 0-7.5 kv double arm with reinforcing bracket</b>								
Transfer Arm	Power			0				0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
<b>21 - D 0-7.5kv sidearm - single</b>	Power							
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
<b>21 - E 0-7.5kv sidearm - double</b>	Power							
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
<b>21 - F 7.6-15kv single arm</b>	Power							
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
<b>21 - G 7.6-15kv double arm</b>	Power							
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
<b>21 - H 7.6-15kv sidearm - single</b>	Power							
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
<b>21 - I 7.6-15kv sidearm - double</b>	Power							
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
<b>21 - J 16-34kv single arm</b>	Power							
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
<b>21 - K 16-34kv double arm</b>	Power							
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
<b>21 - L 16-34kv double arm with reinforcing bracket</b>	<b>Power</b>							
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
<b>21 - M 16-34kv sidearm - single</b>	<b>Power</b>							
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
<b>21 - N 16-34kv sidearm - double</b>	<b>Power</b>							
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
<b>21 - O 66-115kv single arm</b>	<b>Power</b>							
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
<b>21 - P 66-115kv double arm</b>	<b>Power</b>							
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
<b>21 - Q 66-115kv steel arm</b>	<b>Power</b>							
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
NOTE: Add Item 24 for bonding cost.								
<p>NOTES CONCERNING ITEMS 21 AND 22:            For strain dead ends on arm, omit specified conductor cost and add Item 22. For Close Buck (Smith Corner) construction, cost of transferring corner arm bracing is extra by field agreement. In triangular or vertical configuration, when circuits are of different voltage or different type of conductor support, apply arm cost for higher voltage involved and respective conductor cost according to voltage. Where circuits are of different ownership, the utility transferring arms and its own circuit will apply both costs.</p>								

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
<b>22 Dead ends - on arm or direct to pole, per each dead end, any conductor size:</b>								
<b>22-A</b> 0-750 volt secondary	Power			0				0
<b>22-B</b> 750-7,500 volt primary	Power			0				0
<b>22-C</b> 7.6-115kv - 1 or 2 strain insulators	Power			0				0
<b>22-D</b> 7.6-115kv - 3 or 4 strain insulators	Power			0				0
<b>22-E</b> 7.6-115kv - 5 or 6 strain insulators	Power			0				0
NOTE: For dead ends on arm, add the cost of appropriate arm listed under Item 21. Add Item 24 for bonding cost								
<b>23 Changing type of construction – horizontal to vertical, triangular to horizontal, vertical to horizontal, etc.: (labor cost only - additional arms are extra)</b>								
<b>23-A</b> Flat to vertical 7.5-115kv single arm per pole	Power			0				0
<b>23-A1</b> Triangular to Flat 7.5-115kv single arm per pole	Power			0				0
<b>23-A2</b> Vertical to Flat 7.5-115kv single arm per pole	Power			0				0
<b>23-B</b> Flat to vertical 7.5-115kv double arm per pole	Power			0				0
<b>23-B1</b> Triangular to Flat 7.5-115kv double arm per pole	Power			0				0
<b>23-B2</b> Vertical to Flat 7.5-115kv double arm per pole	Power			0				0
NOTE: Cost of rebonding is included in above prices. Section 1.2 (signed JPA) is required to charge item 23. edited 11/16/2022								
<b>24 - A</b> Bonding Per Pole: Single circuit-all voltages	Power			0				0
<b>24 - B</b> Bonding Per Pole: Double circuit-all voltages	Power			0				0
<b>25 -</b> Ground Wire, Incl. protective covering	Power			0				0
<b>26 - Pole Top Switches(oil or Open Air) Price by field agreement Section 1.2 (cost to be estimated and agreed to by field engineers) edited 11/16/2022</b>								
<b>27 - A</b> Racks & brackets-secondary/3-4 wire to pole	Power			0				0
Plus Conductor ea.	Power			0				0
<b>27 - B</b> Bracket, Triplex	Power			0				0
Plus Triplex conductor	Power			0				0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
NOTE: If rack or bracket supports service drops only, omit specified line conductor cost and add Item 28. If service drops originate from line conductors, Item 28 is additional.								
<b>28 - A</b> Service Conductors - Transferring, raising or lowering: #4 conductor of smaller (all service conductors). Edited 11/16/2022	Power			0				0
<b>28 - B</b> Service Conductors - Transferring, raising or lowering: Larger than #4 conductor (all service conductors). Edited 11/16/2022	Power			0				0
<b>28 - C</b> Service Conductors - Transferring, raising or lowering: Triplex/Quadruplex service conductors. Edited 11/16/2022	Power			0				0
<b>29- A</b> Transformers 1-1/2 to 25 KVA each	Power			0				0
<b>29- B</b> Transformers 30 to 167 KVA each	Power			0				0
<b>29- C</b> Mounting Brackets, two transformers	Power			0				0
NOTE: Section 1.2 (signed JPA) is required to charge item 29. If two transformers are on the same arm, deduct \$99 from the total; if three transformers are on the same arm, deduct \$246 from the total. Edited 11/16/2022								
<b>30-A</b> Capacitors/capacitor bank switched	Power			0				0
<b>30-B</b> Capacitors/capacitor bank non-switched	Power			0				0
<b>31-A</b> Street Lights Ctr Susp type-span end	Power			0				0
<b>31-B</b> Street Lights Ctr Susp type-Feed end	Power			0				0
<b>31-C</b> Street Lights Gooseneck or brket type open wire	Power			0				0
<b>31-D</b> Street Lights Gooseneck or brket type Conduit on pole	Power			0				0
<b>31-E</b> Street Lights Mast arm type	Power			0				0
<b>31-F</b> Street Lights Pole top pin and insulator-single	Power			0				0
<b>31-G</b> Street Lights Pole top pin and insulator-Double	Power			0				0
<b>32</b> Meter of Time Switch Control Box (Price by field agreement)								
<b>33-A</b> Support single insulator fiberglass	Power			0				0
<b>33-B</b> Support Double insulator fiberglass	Power			0				0
<b>33-C</b> Support Triple insulator fiberglass	Power			0				0
<b>33-D</b> Support Pole Top insulator fiberglass	Power			0				0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
<b>34</b> Support, single deadend fiberglass	Power			0				0
<b>35-A</b> Insulator mounting brackets-single(vertical or horizontal)	Power			0				0
<b>35-B</b> Insulator mounting brackets-Double(vertical)	Power			0				0
<b>35-C</b> Insulator mounting brackets-Single, over 40KV	Power			0				0
<b>36-A</b> Steel crossarm,Squirrel cage brkt inc. insulator-Single	Power			0				0
<b>36-B</b> Steel crossarm,Squirrel cage brkt inc. insulator-Double	Power			0				0
<b>37-</b> Double circuit side mount insulators-Dreyfuss Sunburst	Power			0				0
<b>38-</b> Insulator assembly bracket for endarm mountings NOTE: Refer to Item 21 for conductor cost	Power			0				0
<b>49-</b> Transferring, raising or lowering of power line equipment not listed: Specify under this item number the nature thereof and the agreed cost. ( <i>special agreement</i> )								
<b>TRANSFER COSTS - COMMUNICATION CIRCUITS -----</b>								
<b>74-</b> Semi-circular cable guard ("U" guard): transferring	Communication			0				0
<b>75.</b> Guardarms - transferring, raising, or lowering, per arm (single/double). Edited 11/16/2022	Communication			0				0
<b>78.</b> Drive hook with wedge grip unit ("P" tie), either single drop wire or multiple drop wire including conductor - up to three wedge grips unit. Edited 11/16/2022.	Communication			0				0
<b>79-</b> Multiple Distribution Service Wire on line pole	Communication			0				0
<b>81-"C"</b> rural wire (1 pair) - in line or on dead-end pole. Edited 11/16/2022	Communication			0				0
<b>82-A</b> Cable arm w/ 1 cable, transferring, raising, or lowering - Single arm Edited 11/16/2022	Communication			0				0
<b>82-B</b> Cable arm w/ 1 cable, transferring, raising, or lowering - Double arm Edited 11/16/2022	Communication			0				0
<b>82-C</b> Cable arm w/ 1 cable, transferring, raising, or lowering - Extension arm("F" or alley arm)	Communication			0				0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
<b>82-D</b> Cable arm w/ 1 cable, transferring, raising, or lowering -Additional cable (on separate messenger) on same arm NOTE: The above prices do not include cable terminals.	Communication			0				0
<b>83-A</b> Cable attached direct to pole (complete)	Communication			0				0
<b>83-B</b> Cable attached (additional work required) (new item)	Communication			0				0
<b>84-</b> Messenger reinforcing units - strap or link each. Edited 11/16/2022	Communication			0				0
<b>85-A</b> Messenger without cable-transferring, raising, or lowering-single arm. Edited 11/16/2022	Communication			0				0
<b>85-B</b> Messenger without cable-transferring, raising, or lowering-Double arm. Edited 11/16/2022	Communication			0				0
<b>85-C</b> Messenger without cable-transferring, raising, or lowering-Extension arm("F" or alley arm)	Communication			0				0
<b>85-D</b> Messenger without cable-transferring, raising, or lowering-Direct to Pole	Communication			0				0
<b>86-</b> Messenger dead end, all sizes-with or without cable	Communication			0				0
<b>87-A</b> Cable Terminal transfer (pole to pole, no splicing)-Distribution Cable terminal (25x - 50x)	Communication			0				0
<b>87-B</b> Cable Terminal transfer (pole to pole, no splicing)-Feeder Distribution Interface	Communication			0				0
<b>87-C</b> Cable Terminal transfer (pole to pole, no splicing)-Pole seat or balcony	Communication			0				0
<b>88-</b> Multiple Distribution Wire terminal Transfer	Communication			0				0
<b>89. Cable terminal replacement (cost to place new terminal and remove old terminal, including splicing due to replacement of pole at location to which existing terminal cannot be transferred):</b>								
<b>89-A</b> Cable terminal replacement - All types terminals except Ready Access 25 pair or less	Communication			0				0
<b>89-B</b> Cable terminal replacement Ready Access 24 Pair or less	Communication			0				0
<b>89-C</b> Cable terminal replacement- Ready Access 24 Pair - 50 Pair	Communication			0				0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
NOTE-When necessary to use multiple distribution stub, add the following to cost above;								
89-D Cable terminal replacement- Multiple Distribution Stub for Ready Access type	Communication			0				0
NOTE-Costs of drop and/or line pair rearrangements and cable transfer are not included in the above prices and are added only when cost of transfer is made applicable under the Routine. For replacement of terminals larger than 50 pair, the cost is to be billed under Item #109.								
91-A Cable Splicing/per splice/per pair=18 pair	Communication			0				0
91-B Cable Splicing/per splice/per pair=25 pair	Communication			0				0
91-C Cable Splicing/per splice/per pair=50 pair	Communication			0				0
91-D Cable Splicing/per splice/per pair=100 pair	Communication			0				0
91-E Cable Splicing/per splice/per pair=200 pair	Communication			0				0
91-F Cable Splicing/per splice/per pair=300 pair	Communication			0				0
91-G Cable Splicing/per splice/per pair=400 pair	Communication			0				0
91-H Cable Splicing/per splice/per pair=600 pair	Communication			0				0
91-I Cable Splicing/per splice/per pair=700 pair	Communication			0				0
91-J Cable Splicing/per splice/per pair=800 pair	Communication			0				0
91-K Cable Splicing/per splice/per pair=900 pair	Communication			0				0
91-L Cable Splicing/per splice/per pair=1200 pair	Communication			0				0
<b>Note:</b> Splice enclosure disassemble/re-assemble cost embedded in prices listed above. <b>NOTE:</b> if two splices are required, then the above amounts are doubled, plus the cost of the cable needed to enable the splicing process. Installation costs will be called out separately. Section 1.2 to be utilized if costs exceed those called out above.								
92 - Cable risers, including pipe and molding each	Communication			0				0
93 - Underground and terminal facilities: Where the location of a pole makes reconstruction of cable plant necessary, the engineer is to estimate the cost (exclusive of material) and include same under this item number in the billing. (Sec 1.2 by special agreement)								
94-A-1 Fiber Optic Splicing/testing Fusion-24 strand	Communication			0				0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
94-A-2 Fiber Optic Splicing/testing Fusion-48 strand	Communication			0				0
94-A-3 Fiber Optic Splicing/testing Fusion-60 strand	Communication			0				0
94-A-4 Fiber Optic Splicing/testing Fusion-72 strand	Communication			0				0
94-A-5 Fiber Optic Splicing/testing Fusion-96 strand	Communication			0				0
94-A-6 Fiber Optic Splicing/testing Fusion-144 strand	Communication			0				0
94-A-7 Fiber Optic Splicing/testing Fusion-288 strand	Communication			0				0
94-A-8 Any size above and beyond by special agreement								
Section 1.2								
97-Transfer meter curcuit breaker box/disconnect box	Communication			0				0
109-Transferring, raising, or lowering of wireless equipment or communication equipment not listed: Specify under this item number the nature thereof and the agreed cost under Section 1.2.								
<b>INSTALLATION COSTS - GUYS AND ANCHORS -----</b>								
110 - A Guy wire complete Make-up-overhead, span, or arm guy	Power			0				0
110 - B Guy wire complete Make-up-Anchor guy	Power			0				0
110 - C Guy wire comp. Make-up-Cutting-in insulator in exist guy	Power			0				0
110 - D Guy wire comp. Make-up-Attaching span guy to interset pole	Power			0				0
110 - E Guy wire comp. Make-up-Guy guards	Power			0				0
110 - F Guy wire complete Make-up-overhead, span, or arm guy	Communication			0				0
110 - G Guy wire complete Make-up-Anchor guy	Communication			0				0
110 - H Guy wire comp. Make-up-Cutting-in insulator in exist guy	Communication			0				0
110 - I Guy wire comp. Make-up-Attaching span guy to interset pole	Communication			0				0
110 - J Guy wire comp. Make-up-Guy guards	Communication			0				0
NOTE: Where it is necessary to reattach the guy at pole or anchor end, due to cutting-in an insulator, the cost of relative Sub-Item 20 is to be added.								
111 - A Anchors-expanding plate(Hand Dig)	Both			0				0
111 - B Anchors-expanding plate(Truck access)	Both			0				0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
<b>111 - C</b> Anchors-PISA screw anchor	<b>Both</b>			0				0
<b>111 - D</b> Anchors-Hydraulically driven (mantaray)	<b>Both</b>			0				0
<b>111 - E</b> Anchors-Concreting an anchor	<b>Both</b>			0				0
<b>111 - F</b> Anchors-Sale of abandoned anchor to another utility-all sizes	<b>Both</b>			0				0
<b>111 - G</b> Anchors-Existing anchor purchase (Rear property)	<b>Both</b>			0				0
<b>111 - H</b> Anchors-Existing Anchor Purchase (street/alley) NOTE: Actual size of anchor needs to be noted on JPA along with the appropriate item number for type. Items 111 (g), and (h) are calculated at 70% of Item 111 (a) and (b) respectively.	<b>Both</b>			0				0
<b>112 - A</b> Sidewalk anchor fittings-2" pipe brace & fittings	<b>Both</b>			0				0
<b>112 - B</b> Sidewalk anchor fittings-2 1/2" pipe brace & fittings	<b>Both</b>			0				0
<b>112 - C</b> Sidewalk anchor fittings-3" pipe brace & fittings	<b>Both</b>			0				0
<b>112 - D</b> Sidewalk anchor fittings-Sale of abandoned pipe brace & fittings to another utility-all sizes NOTE: For anchor and rod, include relative Item under 111. For guy wire, include relative Item under 110. For transfer of guy wire or sidewalk fitting see Item 20.	<b>Both</b>			0				0
<b>115 - A</b> Heel/toe bracing pole-with treated wood blocks, new pole	<b>Both</b>			0				0
<b>115 - B</b> Heel/toe bracing pole-with treated wood blocks, existing pole	<b>Both</b>			0				0
<b>115 - C</b> Heel/toe bracing pole-with fiberglass blocks, new pole	<b>Both</b>			0				0
<b>115 - D</b> Heel/toe bracing pole-with fiberglass blocks, existing pole	<b>Both</b>			0				0
<b>116 - A</b> Breast blocking only, new or existing pole-w/treated wood block	<b>Both</b>			0				0
<b>116 - B</b> Breast blocking only, new or existing pole-w/concrete block	<b>Both</b>			0				0
<b>116 - C</b> Breast blocking only, new or existing pole-w/fiberglass block	<b>Both</b>			0				0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
<b>119</b> - Installation of special guy equipment not listed: Specify under this item number the nature thereof and the agreed cost (Section 1.2).								
<b>INSTALLATION COSTS - POWER CIRCUITS</b>								
<b>120 Crossarms, standard line (pins and insulators are extra):</b> These are costs for installation or attachment to existing (For attachment to existing, use arm cost only)								
<b>120 - A</b> 0-7.5KV single <b>WOODEN</b> arm	Power			0				0
<b>CF ARM</b>	Power			0				0
<b>Plus conductor</b>	Power			0				0
<b>120 - B</b> 0-7.5KV Double <b>WOODEN</b> arm	Power			0				0
<b>CF ARM</b>	Power			0				0
<b>Plus conductor</b>	Power			0				0
<b>120 - C</b> 0-7.5KV Double <b>WOODEN</b> arm with reinforcing brackets	Power			0				0
<b>CF ARM</b>	Power			0				0
<b>Plus conductor</b>	Power			0				0
<b>120 - D</b> 0-7.5KV <b>WOODEN</b> Sidearm-single	Power			0				0
<b>CF ARM</b>	Power			0				0
<b>Plus conductor</b>	Power			0				0
<b>120 - E</b> 0-7.5KV <b>WOODEN</b> Sidearm-Double	Power			0				0
<b>CF ARM</b>	Power			0				0
<b>Plus conductor</b>	Power			0				0
<b>120 - F</b> 7.6-15KV Single <b>WOODEN</b> arm	Power			0				0
<b>CF ARM</b>	Power			0				0
<b>Plus conductor</b>	Power			0				0
<b>120 - G</b> 7.6-15KV Double <b>WOODEN</b> arm	Power			0				0
<b>CF ARM</b>	Power			0				0
<b>Plus conductor</b>	Power			0				0
<b>120 - H</b> 7.6-15KV <b>WOODEN</b> Sidearm-single	Power			0				0
<b>CF ARM</b>	Power			0				0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
<b>Plus conductor</b>	<b>Power</b>			0				0
<b>120 - I</b> 7.6-15KV <b>WOODEN</b> Sidearm-Double	<b>Power</b>			0				0
<b>CF ARM</b>	<b>Power</b>			0				0
<b>Plus conductor</b>	<b>Power</b>			0				0
<b>120 -J</b> Crossarms- <b>WOODEN</b> , standard line-16-115KV Single arm	<b>Power</b>			0				0
<b>CF ARM</b>	<b>Power</b>			0				0
<b>16-34KV</b>	<b>Power</b>			0				0
<b>66-115KV</b>	<b>Power</b>			0				0
<b>120 -K</b> Crossarms- <b>WOODEN</b> , standard line-16-115KV Double arm	<b>Power</b>			0				0
<b>CF ARM</b>	<b>Power</b>			0				0
<b>16-34KV</b>	<b>Power</b>			0				0
<b>66-115KV</b>	<b>Power</b>			0				0
<b>120 -L</b> Crossarms- <b>WOODEN</b> , standard line-16-115KV Double arm w/rein brckets	<b>Power</b>			0				0
<b>CF ARM</b>	<b>Power</b>			0				0
<b>16-34KV</b>	<b>Power</b>			0				0
<b>66-115KV</b>	<b>Power</b>			0				0
<b>120 -M</b> Crossarms- <b>WOODEN</b> , standard line-16-115KV Sidearm single	<b>Power</b>			0				0
<b>CF ARM</b>	<b>Power</b>			0				0
<b>16-34KV</b>	<b>Power</b>			0				0
<b>66-115KV</b>	<b>Power</b>			0				0
<b>120 -N</b> Crossarms- <b>WOODEN</b> , standard line-16-115KV Sidearm Double	<b>Power</b>			0				0
<b>CF ARM</b>	<b>Power</b>			0				0
<b>16-34KV</b>	<b>Power</b>			0				0
<b>66-115KV</b>	<b>Power</b>			0				0
NOTE: For dead end on arms, omit the specified conductor cost and add Item 123. For Close Buck (Smith Corner) construction, the cost of installing corner arm bracing is extra by field Agreement. See Items 122 and 123 for insulator cost and Item 24 for bonding cost.								

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
<b>121. Pole top extensions, including arms (pins and insulators are extra):</b>								
<b>121 -A</b> Pole top extensions, including arms: 6-7 ft extension (extension complete)	Power			0				0
<b>Plus conductor each</b>	Power			0				0
<b>121 -B</b> Pole top extensions, including arms:8-9 ft extension (extension complete)	Power			0				0
<b>Plus conductor each</b>	Power			0				0
NOTE: Price for extensions of other lengths to be by field agreement. Where existing conductors are Raised, apply specified conductor cost; the cost of raising pins and insulators in such cases shall not be included. See Item 122 for insulator cost and Item 24 for bonding cost.								
<b>122 -A</b> Insulators including pins and hardware: 0-7.5kV pin type, each	Power			0				0
<b>122 -B</b> Insulators including pins and hardware: 11 or 16kV pin type each	Power			0				0
<b>122 -C</b> Insulators including pins and hardware: 34kV pin type each	Power			0				0
<b>122 -D</b> Insulators including pins and hardware: 66kV pin type each	Power			0				0
<b>122 -E</b> Insulators including pins and hardware: 11 and 16kV post type each	Power			0				0
<b>122 -F</b> Insulators including pins and hardware: 34kV post type each	Power			0				0
<b>122 -G</b> Insulators including pins and hardware: 66KV post type each	Power			0				0
<b>122 -H</b> Insulators including pins and hardware: 34-115kV suspension (strain) type, each insulator	Power			0				0
<b>123. Dead ends, on arm or direct to pole, per each strain dead end:</b>								
<b>123 -A</b> 0-750 volt secondary	Power			0				0
<b>123 -B</b> 750-7,500 volt primary	Power			0				0
<b>123 -C</b> 11 or 16KV-1 strain insulator	Power			0				0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
<b>123 -D</b> 11 or 16KV-2 strain insulators	Power			0				0
<b>123 -E</b> 34kv - 4/0 conductor or smaller - 2 insulators	Power			0				0
<b>123 -F</b> 34kv - 4/0 conductor or smaller - 3 insulators	Power			0				0
<b>123 -G</b> 34kv - larger than 4/0 conductor - 3 insulators	Power			0				0
<b>123 -H</b> 66 to 115kv - 4/0 conductor or smaller – 4 insulators	Power			0				0
<b>123 -I</b> 66 to 115kv - larger than 4/0 conductor - 4 insulators	Power			0				0
<b>123 -J</b> 750-7500 volt primary silicone insulators	Power			0				0
<b>123 -K</b> 34KV – silicone insulators	Power			0				0
<b>NOTE:</b>								
Add \$74 for each additional insulator on items (c) to (d).	Power			0				0
Add \$165 for each additional insulator on items (e) to (f).	Power			0				0
Add \$180 for each additional insulator on item (g).	Power			0				0
Add \$246 for each additional insulator on item (h).	Power			0				0
Add \$262 for each additional insulator on item (i). See Item 120 for cost of arms.	Power			0				0
<b>124 -A</b> Racks/Brackets,secondary-Rack, 3 or 4 wire - direct to pole	Power			0				0
<b>124-A Plus conductor each</b>	Power			0				0
<b>124 -B</b> Racks/Brackets,secondary - Bracket, triplex	Power			0				0
<b>124-B Plus triplex conductor each</b>	Power			0				0
<b>125 -</b> Ground assembly, complete	Power			0				0
<i>Note:For secondary neutral ground, this item is to be used only by those utilities that have executed agreements for the installation of grounds.</i>								
<b>126-A</b> Support: single insulator, fiberglass	Power			0				0
<b>126-B</b> Support: Double insulator, fiberglass	Power			0				0
<b>126-C</b> Support: Triple insulator, fiberglass	Power			0				0
<b>126-D</b> Support: Pole Top insulator, fiberglass	Power			0				0
<b>127</b> Support, single dead end fiberglass	Power			0				0
<b>128-A</b> Insulator mounting bracket-single(vertical or horizontal)	Power			0				0
<b>128-B</b> Insulator mounting bracket-Double(vertical)	Power			0				0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
<b>128-C</b> Insulator mounting bracket-Single over 40KV	Power			0				0
<b>129-A</b> Steel Crossarm, squirrel cage bracket, including insulator-Single	Power			0				0
<b>129-B</b> Steel Crossarm, squirrel cage bracket, including insulator-Double	Power			0				0
<b>130</b> Double circuit sidemount insulators-Dreyfuss sunburst	Power			0				0
<b>131</b> Insulator assembly bracket for endarm mounting	Power			0				0
<b>132-A</b> mounting bracket: two transformers	Power			0				0
<b>132-B</b> mounting bracket: three transformers	Power			0				0
NOTE: Refer to Item 120 for conductor cost.								
<b>149</b> - Installation of power line equip. not listed-Special Agreement 1.2.								
<b>INSTALLATION COSTS - COMMUNICATION CIRCUITS -----</b>								
<b>159</b> -Semi-circular cable guard ("U" guard): installation	Communication			0				0
<b>160. Crossarms: (For installation or attachment to existing with service wire only):</b>								
<b>160-A</b> Crossarms-single wood service	Communication			0				0
<b>160-B</b> Crossarms-Double wood service	Communication			0				0
<b>160-C</b> Crossarms-Composite Fiberglass Arm	Communication			0				0
<b>160-D</b> Crossarms-Attach to existing arm <b>no charge</b>	Communication							
<b>161. Guard arms: (For installation or attachment to existing with service wire only):</b>								
<b>161-A</b> Guard arms-single wood service	Communication			0				0
<b>161-B</b> -Guard arms-Double wood service	Communication			0				0
<b>161-C</b> -Guard arms-Composite Fiberglass	Communication			0				0
<b>163. Drive hook with wedge grip unit ("P" tie), either single drop or multiple drop wire, including conductor:</b>								
<b>163 - A</b> Drive hook with one wedge grip unit	Communication			0				0
<b>163 - B</b> Additional wedge grip units on same hook, each	Communication			0				0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
<b>164 - A</b> Cable arm(install or attach to existing)-Single WOOD arm W/one cable <b>CF ARM</b>	Communication			0				0
<b>164 - B</b> Cable arm(install or attach to existing)-Double WOOD arm W/one cable <b>CF ARM</b>	Communication			0				0
<b>164 - C</b> Cable arm(install or attach to existing)-Extension WOOD arm W/one cable <b>CF ARM</b>	Communication			0				0
<b>164 - D</b> Cable arm(install or attach to existing)-Additional cable(on separate messenger) on same arm <b>164 - E</b> Cable arm(install or attach to existing)-Attach to existing cable arm- <b>NO CHARGE</b>	Communication			0				0
<b>165 -</b> Cable attached direct to interser pole, each	Communication			0				0
<b>166 - A</b> Messenger reinforcing units-reinforcing strap ea.	Communication			0				0
<b>167 - A</b> Messenger without cable - single arm	Communication			0				0
<b>167 - B</b> Messenger without cable - Double arm	Communication			0				0
<b>167 - C</b> Messenger without cable - Extension arm ("F" or Alley arm)	Communication			0				0
<b>167 - D</b> Messenger without cable - Direct to pole	Communication			0				0
<b>167 -E</b> Messenger without cable - additional messenger	Communication			0				0
<b>168 -</b> Multiple distribution service wire attached to pole or arms	Communication			0				0
<b>169 -</b> Protective covering - wood or plastic: (Box guard) Street light stds. (marbelite or metal), each location NOTE: Billing is optional, depending on policy of utility.	Communication			0				0
<b>170 -</b> Bonding to secondary neutral ground, per pole	Communication			0				0
<b>199-</b> Installation of wireless equipment or communication equipment not listed: <i>Specify under this item number the nature thereof and the agreed cost under Section 1.2.</i>								
Matrix reviewed by Authorized Committee & Approved by the Administrative Board on 11/16/2022		<b>LEGEND:</b>		= Do not enter price				
				= Title, do not enter price				

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item Number (please do not delete any rows)	Power or Communication or Both	Direct Labor (loaded)	Total Labor Hours	Total Direct Labor (\$) (Formula)	Material Cost (FOB)	Equipment Expense	General & Admin	Total Cost (Formula)
				= Notes, do not enter price				
<b>Column/Element Definitions</b>								
<b>Column 1: <u>Item number and definition.</u></b>								
Authorized Cost item number, and description.								
<b>Column 2: <u>Power/Communication/Both</u></b>								
This column pertains to either power or communication or both. If POWER or COMMUNICATION is designated, than only a power or communication utility may propose a cost. If BOTH is designated, than either type utility may propose a cost.								
<b>Column 3: <u>Direct Labor (loaded)</u></b>								
The average non-premium hourly rate of field workmen that includes cost of associated benefits (i.e., medical, dental, vision, vacation, sick leave, etc.). The average non-premium hourly rate is average between the high and low hourly rate of the labor classification (or title) directly involved in this transaction/operation.								
<b>Column 4: <u>Total Labor Hours</u></b>								
The average amount of time (in hours and/or quarter-hour increments) directly related to the workmen who perform this transaction/operation.								
<b>Column 5: <u>Total Direct Labor</u></b>								
This is calculated by multiplying the Direct Labor (loaded) in column 3 times Total Labor Hours in column 4.								
<b>Column 6: <u>Material Cost (FOB)</u></b>								
The average material expense (includes sales tax, and transportation costs) purchased for this transaction/operation.								
<b>Column 7: <u>Equipment Expense</u></b>								
The expense of the equipment directly used in this transaction/operation. The expenses should include fuel, oil, and average maintenance costs. If the Equipment Expense is already included within another defined expense on the Pole Price Matrix expense categories (i.e., Direct Labor (Loaded) or General Administrative), please notate under which pricing element these costs are already included.								
<b>Column 8: <u>General and Administrative</u></b>								
The average expense for additional labor (direct clerical support, direct supervision of the field crew, and indirect supervision of the crew) performing the transaction/operation. This is usually derived or calculated as a percentage of Direct Labor Rate.								
<b>Column 9: <u>Total Cost</u></b>								
The total cost is calculated by summing the dollar values in columns #5, #6, #7, and #8.								
<b>*** 08/16/2016: Item 19 authorized cost calculation is determined by:</b>								
1. Labor required in preparation to relocate top portion of the old pole.								
2. Relocation and support of the top portion of the old pole.								
3. Include the cost associated with supporting cables and conductors.								