Southern California Joint Pole Committee

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March 19, 2025

A meeting of the **ad hoc Authorized Cost Elements Committee** took place on the above date, at 10:15 a.m. via teleconference. **Those in attendance were:**

Mr. Nick Van Stryk	City of Vernon (Petrelli Electric)
Ms. Claudia Arellano	City of Vernon
Mr. Lex Treepaisan	Frontier Communications
Ms. April DeBarge	Southern California Edison
Ms. Marisol Bailey	Southern California Edison
Mr. Michael Pearson	Southern California Edison
Mr. Samuel Picazo	Southern California Edison
Ms. Carla Stephen	Southern California Edison
Mr. Cesar Rodriguez	Southern California Edison
Mr. Kristoffer Scheetz	Southern California Edison
Ms. Kay Black	AT&T California
Mr. Todd Dailey	AT&T California
Mr. Aaron Cochran	AT&T California
Mr. Robert Stanard	AT&T California
Ms. Joy Young	AT&T California
Ms. Megan LaMon	Crown Castle NG West Inc.
Ms. Jacqueline Costa	Crown Castle NG West Inc.
Mr. Jeremy Effinger	Crown Castle NG West Inc.
Mr. Jeremy Harmon	Verizon Wireless
Mr. Alex Parra	City of Riverside
Mr. Vinh Tran	City of Anaheim
Ms. Maria Ortiz	MCI Metro ATS/MCI Telecommunications/XO Communications
Mr. Howard Chadwick	MCI Metro ATS/MCI Telecommunications/XO Communications
Ms. Alicia Smith	Sprint Nextel/Sprint Communications
Mr. Irvin Orzuna	City of Glendale
Mr. Salvador Zambrano	City of Burbank
Mr. Anthony Ghilardi	City of Pasadena
Ms. Yesenia Delgado	Time-Warner Cable
Ms. Lynne LaFrenais	Bear Valley Electric Service, Inc.
Mr. Elias Avila	City of Colton
Ms. Nicole Munoz	City of Colton
Mr. Ben Coffey	City of Banning
Mr. David Campo	City of Lompoc
Ms. Shawn Henderson	T-Mobile USA

Mr. Juan Maldonado	T-Mobile USA
Ms. Linda McLean	Extenet Systems
Ms. Heidi Seropian	Extenet Systems
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 **10:15 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

Mr. Van Stryk initiated the review of pole price calculations and definitions. He noted the need to ensure uniformity in how labor costs are calculated across members or to modify the way the committee does the calculations. Ms. Pranata shared the *2025 Definitions of Pole Price Elements* document (attached) with the committee. Mr. Van Stryk reviewed numbers one and two from the list, *Pole Length and Direct Labor (Loaded)*, and referenced the specific methodology for calculating pole height and labor intended for pole replacement. He clarified that the labor cost should reflect the average non-premium hourly rate applied only to the installation of the pole itself, not any additional authorized costs like power transfers or arms, or same hole sets. *Transport and Handling* would include the average cost of going to the pole yard to the drop site.

Ms. Black inquired whether discussion could be held after each segment, as they had questions about labor. Mr. Van Stryk agreed to pause and allow discussion. Ms. Black expressed a desire for uniformity regarding the number of hours used in calculations. Ms. Black commented that the current section might not be the proper place for that discussion but wanted to consider mutual benefit and proposed developing an agreement on how many hours should be standard per activity, especially in number four of the list, *Digging and Erecting.*

Mr. Van Stryk continued, explaining that *Transport and Handling* covers the time taken to move the pole from the pole yard to the job site. Mr. Van Stryk then moved to number four, *Digging and Erecting*, and he noted that calculations include man hours, use of excavators, erect and plumb the pole, backfill, compaction, tamp the pole in place, and traffic control, which includes setup and takedown referenced in the WATCH manual. He added that sometimes there would be a section 1.2 factor in some cases.

Ms. Black asked about the significant impact of different utility hours used and suggested agreeing on standard times per pole length, like 25-foot or

30-foot poles. Mr. Van Stryk replied that the issue stems from each company using their own average, which is influenced by soil conditions. For instance, some areas in Vernon consist of sand or dirt, affecting excavation times. Sand, in particular, is problematic because it continuously fills back in during excavation. Mr. Van Stryk stressed the difficulty of setting a universal average when conditions vary so much. Ms. Black acknowledged the soil condition is a valid point and suggested an alternative approach where all utility submissions could be averaged to create a standard price for a 25-foot wood pole. This method would involve collecting each member's average and cost submissions, summing them, and dividing by the number of submissions to create a uniform price. Ms. Black proposed to eliminate the individual prices and the committee should just use one price.

Mr. Van Stryk understood the idea but questioned how the math would work out. Mr. Treepaisan asked if the proposal applied only to labor or if it included the pole price too, proposing a complete package of material and labor. Ms. Black confirmed it should be applied to every populated column because some members use *Column 10* (see attached *2025 Pole Price Matrix* document) while others do not, and the only fair way is to allow everyone to input data and then average it.

Ms. Black clarified that the purpose of the SCJPC agreement is to share mutually beneficial expenses rather than make a company whole. Ms. Black expressed that the current approach might not be mutually beneficial and reiterated the need for averaging.

Mr. Van Stryk inquired whether the suggestion involved a weighted average, as a simple average could skew results if members like AT&T submitted prices for categories they never use. Ms. Black responded that it might require further discussion and acknowledged that SCE might prefer a weighted average due to their larger number of setting poles. Mr. Van Stryk clarified that a weighted average would heavily favor members who perform the majority of the work.

Mr. Van Stryk acknowledged the need to refresh the calculation methods for pole prices. He noted that some members had been reusing old prices, which might disproportionately affect communication members.

Mr. Dailey commented that AT&T CA noticed some members submitted wildly different numbers, some very low and some very high. They hoped that a common number for each height of the pole could be established, making the process more reliable and reducing the large swings in numbers. They also acknowledged that larger poles might not be placed by certain members, which should be considered to avoid skewing the numbers. Ms. Dailey continued that they are trying to find a price that they would consider mutually beneficial on average. Mr. Van Stryk understood what AT&T CA proposed and acknowledged the need to refresh the calculation methods for pole prices. He noted that some members had been reusing old prices, which might disproportionately affect communication members.

Ms. Black suggested the committee perform an average calculation instead of weighted average. Mr. Van Stryk explained all members are allowed to submit prices, and that would allow members to submit prices for work they never perform, for example for pole length they never set, which could skew averages. Ms. Black proposed requiring proof, like material costs, to support members' pole price submissions.

Mr. Harmon agreed, emphasizing that members should provide backup data to an extent because he presumed that the members are subject to non-disclosure agreements (NDAs) to protect sensitive information. He noted that AT&T CA likely has plenty of cost data they could share and that submitting this data would promote honesty and avoid members inflating numbers for budgetary advantages.

Mr. Van Stryk acknowledged the point and added that material costs vary since larger members like SCE buy in bulk, getting better prices, while smaller members, such as the City of Vernon pay more. Ms. Black commented that that is acceptable but stressed that the key is reflecting actual costs in the equation to achieve mutual benefit, not to subsidize another company's operations.

Mr. Treepaisan requested that Ms. Black draft a cost methodology proposal, including a mathematical example, to provide a visual aid for understanding the impact. Ms. Black agreed to draft the cost methodology proposal for the committee. Mr. Van Stryk suggested pulling all the submitted costs and averaging the columns to get an idea of the impact on members. Ms. Black asked Ms. Pranata if all submissions were in Excel format. Ms. Pranata confirmed they were on individual spreadsheets and agreed to send them to Ms. Black.

Ms. Black admitted she might dislike the resulting numbers but emphasized the importance of reviewing the data. Mr. Van Stryk agreed that this exercise would help standardize prices, making billing easier for the office committee staff. Ms. Black agreed.

Ms. Black then asked for clarification about *Column 10 (General and Administrative)*, where some members submit general administrative costs and others do not. Mr. Van Stryk explained that the City of Vernon's submission includes costs for yard managers and general foremen who supervise multiple crews but are not part of the field crew. Clerical support and engineers were also included in their price. Mr. Treepaisan added that Frontier captured engineering and planning labor rates and that *General and Administrative* labor rates would be a lower rate, but could be prorated into engineering if needed.

Ms. Black proposed a homework assignment for each member who populated *Column 10 (General and Administrative)* to clarify what their *Column 10* includes. She committed to asking her company since AT&T CA currently has nothing populated there. Mr. Van Stryk commented that some entries may just be a percentage based on a contract.

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

Mr. Van Stryk reminded the group that the goals of this exercise are to create examples and documents clarifying how the costs should be calculated for consistency. He commented that the committee had done an exercise similar to this previously to merge or separate the power prices from communications, he added this exercise would be very similar to the one they had done previously. Ms. Pranata shared the *2025-2026 Authorized Costs Matrix* document (attached) with the group for the review exercise. The committee reviewed: *Column 3: Direct Labor (Loaded) is the average non-premium hourly rate of field workmen that includes cost of associated benefits. 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.* Mr. Van Stryk added that it is based on an average crew size, typically no fewer than five for the power side. Material Costs (FOB) include what you paid for the item, wood arm, cement, asphalt, and so on. *Column 7: Equipment Expense: 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.*

Ms. Black questioned potential overlaps in billing equipment expenses, particularly regarding transfers performed during pole replacements when the pole is on the truck. Mr. Van Stryk acknowledged the overlap but explained that costs should reflect only the time equipment is actively used. The committee debated whether the calculation should include driving out and back or if it was embedded in the pole setting operation.

Ms. Black requested member input next month, seeking clarity and continuing discussion.

Mr. Van Stryk suggested that members should be encouraged to share their methods for calculating costs. He proposed that members who are willing to share their calculation methods should do so, as it would help in comparing power and communication costs more effectively.

Mr. Van Stryk emphasized the need to create a structured Word document that outlines the calculation methods. He suggested that this document should be a collaborative effort, involving more than just a few members. He mentioned specific companies like SCE, LADWP, Vernon, Frontier, AT&T CA, Verizon, and Crown Castle, indicating that these companies should contribute their calculation methods. By doing so, they could provide examples of how they perform their calculations, which would help in identifying a general consensus or at least updating the information on the bottom of the Authorized Costs Matrix sheet.

Ms. Black suggested that Mr. Van Stryk select a few items as homework for members to review.

Mr. Van Stryk proposed that power companies review Item 22 and communication members review Items 82 and 83 to compare calculation methods and differences.

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

The committee reviewed *Item 13 (B) Removal of vegetation to facilitate the placement/replacement/removal of a pole.* Mr. Van Stryk suggested creating a new authorized cost specifically for tree trimming and adding a subsection for vegetation clearance in the communication space. Ms. Black reiterated that Item 1803 was created to address the climbing space vegetation clearance. She suggested adding "maintenance of a pole" to Item 13 (B). Ms. LaFrenais described Bear Valley Electric's daily tree trimming, which is more expensive on private property due to limited equipment access. She explained that multiple permits are needed from Caltrans and US Forest Service to trim and remove trees. She reported that Bear Valley Electric paid $6,500 for tree trimming permits and did not include removing a tree or getting an arborist. Ms. McLean added that Extenet is not permitted to do work in areas where animals or trees are protected.

Mr. Harmon pointed out that *Item 13 (C) All other by Special Agreement Section 1.2 such as landscape/hardscape restoration written estimate required* should cover the heritage or protected trees, mentioning that certain trees, like protected oaks, require special handling and permits, which could justify higher costs. Mr. Van Stryk commented that vegetation in climbing space could be considered as a pole obstruction.

Mr. Van Stryk suggested creating a new Authorized Cost item number just for vegetation, not specifically for *placement/re-placement/removal of a pole* but for vegetation removal in general.

Mr. Picazo noted the conflict with Routine Handbook Section 14.7, which prohibits shared expenses unless all members agree. Mr. Van Stryk commented that this item would be developed in parallel with other discussions regarding routine revisions. Ms. LaFrenais advocated for treating tree trimming as a joint cost since most trimming occurs in communication space.

Mr. Tran from the City of Anaheim clarified that their trimming focuses only on power line clearance, not communication lines, due to customer concerns about excessive trimming. Mr. Harmon commented that from a maintenance perspective, members would want to keep it trimmed so there would be no abrasion or strain. Mr. Harmon added that if a member is going to send somebody out there to trim trees, it makes no sense to trim around one communication line and not the others. Mr. Harmon continued that trimming benefits everyone and that billing should reflect mutual benefit. Mr. Harmon added that it is logical to assign one contractor to trim around all lines simultaneously.

Mr. Van Stryk asked if members preferred an 18.1D charge allowing direct billing or a Section 1.2 charge requiring prior approval. Mr. Harmon preferred 18.1D for reasonable costs but suggested using Section 1.2 when special conditions apply.

Mr. Van Stryk concluded that members who do tree trimming should submit three separate costs: (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 the climbing space (shared space). Ms. LaFrenais noted Bear Valley's costs are not separated by space, but she would check.

Mr. Pranata reminded the group that the meeting had run one hour. Mr. Van Stryk noted that they were almost done.

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

This item has been approved in the Administrative Board meeting.

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: Ms. Black to create a spreadsheet from all pole price submissions highlighting variances.
2. Item 1802: Review of authorized cost calculations:
    - Mr. Van Stryk to verify whether driving out, performing the operation, and returning are considered part of the operation. Determine if the operation should include the replacement process and whether theoretical travel costs or average capital costs should be waived or excluded.
    - Members to share their methods for calculating costs for items 22, 82, and 83. Discuss cost differentiation among communication members for items 82 and 83. Discuss item 22 for power members, considering secondary transfers between power companies, as it is one of the most frequently transferred items between them.

3. Item 1803: Review of authorized tree trimming costs for jointly owned space:
    - 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 11:18 a.m. The next meeting is scheduled for April 16, 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:

Company name & Member Code

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
		($)	(Hours)	(Hours)	($)	($)	($)	($)	($)	($)	($)	Set
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:	October 31, 2024	*Please submit to angela@scjpc.net in Excel format <<<<*						
ENTER Member Code & Company Name:								
PLEASE DO NOT DELETE ANY ROWS ******** PLEASE DO NOT DELETE ANY ROWS ********** PLEASE DO NOT DELETE ANY ROWS**								
(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)**
POLE MAINTENANCE AND MISCELLANEOUS ----------								
1-Trenching/Moving 30'-35' WITH supply	**Power**			0				0
1-Trenching/Moving 40'-45' WITH supply	**Power**			0				0
1-Trenching/Moving 50'- 55' WITH supply	**Power**			0				0
1-Trenching/Moving 60'-65' WITH supply	**Power**			0				0
1-Trenching/Moving 70'-75' WITH supply	**Power**			0				0
1-Trenching/Moving 80'-85' WITH supply	**Power**			0				0
1-Trenching/Moving 90'-95' WITH supply	**Power**			0				0
1-Trenching/Moving 100' WITH supply	**Power**			0				0
2-Trenching/Moving 30'-35' WITHOUT supply	**Communication**			0				0
2-Trenching/Moving 40'-45' WITHOUT supply	**Communication**			0				0
2-Trenching/Moving 50'-55' WITHOUT supply	**Communication**			0				0
3-A- Lowering/Raising to Grade (one operation) 30'-35'	**Power**			0				0
3- Lowering/Raising to Grade (one operation) 40'-45	**Power**			0				0
3- Lowering/Raising to Grade (one operation) 50'-55	**Power**			0				0
3- Lowering/Raising to Grade (one operation) 60'-65'	**Power**			0				0
3- Lowering/Raising to Grade (one operation) 70-75'	**Power**			0				0
3- Lowering/Raising to Grade (one operation) 80'-85'	**Power**			0				0
3- Lowering/Raising to Grade 90'-95'	**Power**			0				0
3- Lowering/Raising to Grade (one operation) 100'	**Power**			0				0
3-B- Lowering/Raising to Grade (one operation) 30'-35'	**Communication**			0				0
3- Lowering/Raising to Grade (one operation) 40'-45	**Communication**			0				0
3- Lowering/Raising to Grade (one operation) 50'-55	**Communication**			0				0
3- Lowering/Raising to Grade (one operation) 60'-65'	**Communication**			0				0
3- Lowering/Raising to Grade (one operation) 70-75'	**Communication**			0				0
3- Lowering/Raising to Grade (one operation) 80'-85'	**Communication**			0				0
3- Lowering/Raising to Grade 90'-95'	**Communication**			0				0
3- Lowering/Raising to Grade (one operation) 100'	**Communication**			0				0
4-A- Straightening in Earth 30'-35'	**Power**			0				0
4- Straightening in Earth 40'-45'	**Power**			0				0
4- Straightening in Earth 50'-55'	**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)
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
4-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
5-A Removing From Service: Pulling (includes 1 hr pre-planning and engineering)	Both			0				0
5-B Removing From Service:Transporting	Both			0				0
5-C Removing From Service: Topping (based on cut and lowering of pole top)	Both			0				0
5-D Removing From Service: Disposal	Both			0				0
5-E Removing from service: Lowering	Both			0				0
5-F Removing From Service: Removal of steel truss (any size)	Both			0				0
6-A Pole Stubbing 8 Ft metal truss	Power			0				0
6-B Pole Stubbing 10-11 Ft metal truss	Power			0				0
6-C Pole Stubbing 11 Ft metal truss	Power			0				0
6-D Pole Stubbing 12 Ft metal truss	Power			0				0
6-E Pole Stubbing 13 Ft metal truss	Power			0				0
6-F Pole Stubbing 14 Ft metal truss	Power			0				0
6-G Pole Stubbing 15.5 Ftmetal truss	Power			0				0
6-H Pole Stubbing: Additional metal trusses (all sizes)	Power			0				0
6-I Pole Stubbing: Inaccessible to stubbing equipment (all sizes)	Power			0				0
7 - Intentionally left blank								
8-A Semi Cir. Pole Guards - Installation	Both			0				0
8-B Semi Cir. Pole Guards - Transfering	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)
9 Title: Hand Dig Pole Set/Hand Removal (does not apply to Sec 7.4 **or Item 19)** (revised 5/2024)								
9A Hand Dig Pole Set/Hand Removal: Pole set: Not accessible to digging equipment	**Both**			0				0
9B Hand Dig Pole Set/Hand Removal: Pole set/removal: Accessible with conflict-must specify nature of conflict on F48, F7, or F2	**Both**			0				0
9C Hand Dig Pole Set/Hand Removal: Pole removal not accessible to removal equipment (hand dig only removal) (justification is necessary)	**Both**			0				0
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)								
10-A Cement break and temporary repair	**Both**			0				0
10-B Asphalt break & repair	**Both**			0				0
10-C Cement saw cut brk&repair-***based on 25 square feet***	**Both**			0				0
10-D Cement saw cut brk&rpr-***based on 50 square feet***	**Both**			0				0
10-E ADA accessible ramp	**Both**			0				0
11-Joint Rights of Way-***by special agreement***								
12-A-Reserved for future use								
12-B Pole Inspect/Treat-Partial Dig	**Power**			0				0
12-C Pole Inspect/Treat-Sound&Bore	**Power**			0				0
12-D Pole Inspect/Treat-Full Treatment	**Power**			0				0
12-E Pole Inspect/Treat-Reject	**Power**			0				0
Note: May only billed once every 5 years								
12-F Pole Inspect/Treat-Re-inspection of reinforced poles (may only be billed once every 10 years)	**Power**			0				0
13-A Pole/anchor access obstructions: Clearing poles in State Responsibility area (Includes cost of contractor to perform activity and post Quality Control inspection)	**Power**			0				0
13-B Pole/anchor access obstructions: Removal of vegetation to facilitate the placement/replacement/removal of a pole	**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)**
13-C Pole/anchor access obstructions: All other by Special Agreement Section 1.2 such as landscape/hardscape restoration written estimate required.								
13-D Traffic Control (By Special Agreement Section 1.2)								
14-A Failure to final JPA Administrative Fee (per pole cost) including correction of records	**Both**			0				0
14-B Failure to final JPA Administrative Fee (per pole cost) - Field verification only	**Both**			0				0
14-C JPA Administrative Fee (per pole cost) - Failure to Submit Pole Loading by Unauthorized Member (see Sec 4.1)								
15-A Pole Marking - Maintenance items only - Re-Tagging	**Both**			0				0
15-B Pole Marking - Maintenance items only- Replacing Visibility Strips	**Both**			0				0
16-A Backhoe 2/hr mininum	**Both**			0				0
16-B Backhoe - each additional Hour (inclusive operator & truck)	**Both**			0				0
17 Title: Wood Pole Fiberglass wrap restoration:								
17-A Wood pole fiberglass wrap-pole set in dirt(8-ft Standard)	**Power**			0				0
17-B Wood pole fiberglass wrap-pole in asphalt-(inc $140 Asphalt/8-ft standard)	**Power**			0				0
17-C Wood pole fiberglass wrap-pole set in concrete-(inc $245 concrete/8-ft standard)	**Power**			0				0
17-D Wood pole fiberglass wrap-Additional foot exceeding 8-ft standard	**Power**			0				0
18-A ModPole Material & Installation 9'	**Power**			0				0
18-B ModPole Material & Installation 14'	**Power**			0				0
18-C ModPole Material & Installation 18'	**Power**			0				0
19-A Costs for cut & kick: Pole placement located on street without riser and/or equipment ***	**Power**			0				0
19-B Costs for cut & kick: Pole placement located on street with riser and/or equipment ***	**Power**			0				0
19-C 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)**
19-D Costs for cut & kick: Pole placement located on street without riser and/or equipment ***	**Communication**			0				0
19-E Costs for cut & kick: Pole placement located on street with riser and/or equipment ***	**Communication**			0				0
19-F Costs for cut & kick: Pole placement on rear property with or without riser and/or equipment not accessible to digging equipment ***	**Communication**			0				0
TRANSFER COSTS GUY WIRES ----------								
20-Guy wires - transfer (overhead, span, arm, or anchor) including insulator if used:								
20- A All types and sizes, each end	**Power**			0				0
20- 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
20-C Insulator relocation	**Power**			0				0
20- D All types and sizes, each end	**Communication**			0				0
20- E 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
20-F Insulator relocation	**Communication**			0				0
TRANSFER COSTS - POWER CIRCUITS ----------								
21 Crossarms - raising, lowering, or transferring of all size crossarms whether in flat, vertical, sidearm or triangular configuration, including the insulators:								
21 - A 0-7.5 kv single Arm (includes service arm)	**Power**							
Transfer Arm	**Power**			0				0
Transfer Conductor (splicing required)	**Power**			0				0
Transfer Conductor (no splicing)	**Power**			0				0
21 - B 0-7.5 kv double arm	**Power**							
Transfer Arm	**Power**			0				0
Transfer Conductor (splicing required)	**Power**			0				0
Transfer Conductor (no splicing)	**Power**			0				0
21 - C 0-7.5 kv double arm with reinforcing bracket	**Power**							
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
21 - D 0-7.5kv sidearm - single	**Power**							
Transfer Arm	**Power**			0				0
Transfer Conductor (splicing required)	**Power**			0				0
Transfer Conductor (no splicing)	**Power**			0				0
21 - E 0-7.5kv sidearm - double	**Power**							
Transfer Arm	**Power**			0				0
Transfer Conductor (splicing required)	**Power**			0				0
Transfer Conductor (no splicing)	**Power**			0				0
21 - F 7.6-15kv single arm	**Power**							
Transfer Arm	**Power**			0				0
Transfer Conductor (splicing required)	**Power**			0				0
Transfer Conductor (no splicing)	**Power**			0				0
21 - G 7.6-15kv double arm	**Power**							
Transfer Arm	**Power**			0				0
Transfer Conductor (splicing required)	**Power**			0				0
Transfer Conductor (no splicing)	**Power**			0				0
21 - H 7.6-15kv sidearm - single	**Power**							
Transfer Arm	**Power**			0				0
Transfer Conductor (splicing required)	**Power**			0				0
Transfer Conductor (no splicing)	**Power**			0				0
21 - I 7.6-15kv sidearm - double	**Power**							
Transfer Arm	**Power**			0				0
Transfer Conductor (splicing required)	**Power**			0				0
Transfer Conductor (no splicing)	**Power**			0				0
21 - J 16-34kv single arm	**Power**							
Transfer Arm	**Power**			0				0
Transfer Conductor (splicing required)	**Power**			0				0
Transfer Conductor (no splicing)	**Power**			0				0
21 - K 16-34kv double arm	**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)
21 - L 16-34kv double arm with reinforcing bracket	Power							
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
21 - M 16-34kv sidearm - single	Power							
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
21 - N 16-34kv sidearm - double	Power							
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
21 - O 66-115kv single arm	Power							
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
21 - P 66-115kv double arm	Power							
Transfer Arm	Power			0				0
Transfer Conductor (splicing required)	Power			0				0
Transfer Conductor (no splicing)	Power			0				0
21 - Q 66-115kv steel arm	Power							
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.

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.

(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)
22 Dead ends - on arm or direct to pole, per each dead end, any conductor size:								
22-A 0-750 volt secondary	**Power**			0				0
22-B 750-7,500 volt primary	**Power**			0				0
22-C 7.6-115kv - 1 or 2 strain insulators	**Power**			0				0
22-D 7.6-115kv - 3 or 4 strain insulators	**Power**			0				0
22-E 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								
23 Changing type of construction – horizontal to vertical, triangular to horizontal, vertical to horizontal, etc.: (labor cost only - additional arms are extra)								
23-A Flat to vertical 7.5-115kv single arm per pole	**Power**			0				0
23-A1 Triangular to Flat 7.5-115kv single arm per pole	**Power**			0				0
23-A2 Vertical to Flat 7.5-115kv single arm per pole	**Power**			0				0
23-B Flat to vertical 7.5-115kv double arm per pole	**Power**			0				0
23-B1 Triangular to Flat 7.5-115kv double arm per pole	**Power**			0				0
23-B2 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								
24 - A Bonding Per Pole: Single circuit-all voltages	**Power**			0				0
24 - B Bonding Per Pole: Double circuit-all voltages	**Power**			0				0
25 - Ground Wire, Incl. protective covering	**Power**			0				0
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*								
27 - A Racks & brackets-secondary/3-4 wire to pole	**Power**			0				0
Plus Conductor ea.	**Power**			0				0
27 - 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.								
28 - A Service Conductors - Transferring, raising or lowering: #4 conductor of smaller (all service conductors). Edited 11/16/2022	**Power**			0				0
28 - B Service Conductors - Transferring, raising or lowering: Larger than #4 conductor (all service conductors). Edited 11/16/2022	**Power**			0				0
28 - C Service Conductors - Transferring, raising or lowering: Triplex/Quadruplex service conductors. Edited 11/16/2022	**Power**			0				0
29- A Transformers 1-1/2 to 25 KVA each	**Power**			0				0
29- B Transformers 30 to 167 KVA each	**Power**			0				0
29- C 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								
30-A Capacitors/capacitor bank switched	**Power**			0				0
30-B Capacitors/capacitor bank non-switched	**Power**			0				0
31-A Street Lights Ctr Susp type-span end	**Power**			0				0
31-B Street Lights Ctr Susp type-Feed end	**Power**			0				0
31-C Street Lights Gooseneck or brket type open wire	**Power**			0				0
31-D Street Lights Gooseneck or brket type Conduit on pole	**Power**			0				0
31-E Street Lights Mast arm type	**Power**			0				0
31-F Street Lights Pole top pin and insulator-single	**Power**			0				0
31-G Street Lights Pole top pin and insulator-Double	**Power**			0				0
32 Meter of Time Switch Control Box (Price by field agreement)								
33-A Support single insulator fiberglass	**Power**			0				0
33-B Support Double insulator fiberglass	**Power**			0				0
33-C Support Triple insulator fiberglass	**Power**			0				0
33-D 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)**
34 Support, single deadend fiberglass	**Power**			0				0
35-A Insulator mounting brkets-single(vertical or horizontal)	**Power**			0				0
35-B Insulator mounting brkets-Double(vertical)	**Power**			0				0
35-C Insulator mounting brkets-Single, over 40KV	**Power**			0				0
36-A Steel crossarm,Squirrel cage brkt inc. insulator-Single	**Power**			0				0
36-B Steel crossarm,Squirrel cage brkt inc. insulator-Double	**Power**			0				0
37- Double circuit side mount insulators-Dreyfuss Sunburst	**Power**			0				0
38- Insulator assembley bracket for endarm mountings	**Power**			0				0
NOTE: Refer to Item 21 for conductor cost								
49- Transferring, raising or lowering of power line equipment not listed: Specify under this item number the nature thereof and the agreed cost. *(special agreement)*								
TRANSFER COSTS - COMMUNICATION CIRCUITS ----------								
74-Semi-circular cable guard ("U" guard): transferring	**Communication**			0				0
75. Guardarms - transferring, raising, or lowering, per arm (single/double). Edited 11/16/2022	**Communication**			0				0
78. 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
79-Multiple Distribution Service Wire on line pole	**Communication**			0				0
81-"C" rural wire (1 pair) - in line or on dead-end pole. Edited 11/16/2022	**Communication**			0				0
82-A Cable arm w/ 1 cable, transferring, raising, or lowering - Single arm Edited 11/16/2022	**Communication**			0				0
82-B Cable arm w/ 1 cable, transferring, raising, or lowering - Double arm Edited 11/16/2022	**Communication**			0				0
82-C 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)**
82-D Cable arm w/ 1 cable, transferring, raising, or lowering -Additional cable (on separate messenger) on same arm	**Communication**			0				0
NOTE: The above prices do not include cable terminals.								
83-A Cable attached direct to pole (complete)	**Communication**			0				0
83-B Cable attached (additional work required) (new item)	**Communication**			0				0
84- Messenger reinforcing units - strap or link each. Edited 11/16/2022	**Communication**			0				0
85-A Messenger without cable-transferring, raising, or lowering-single arm. Edited 11/16/2022	**Communication**			0				0
85-B Messenger without cable-transferring, raising, or lowering-Double arm. Edited 11/16/2022	**Communication**			0				0
85-C Messenger without cable-transferring, raising, or lowering-Extension arm("F" or alley arm)	**Communication**			0				0
85-D Messenger without cable-transferring, raising, or lowering-Direct to Pole	**Communication**			0				0
86-Messenger dead end, all sizes-with or without cable	**Communication**			0				0
87-A Cable Terminal transfer (pole to pole, no splicing)-Distribution Cable terminal (25x - 50x)	**Communication**			0				0
87-B Cable Terminal transfer (pole to pole, no splicing)-Feeder Distribution Interface	**Communication**			0				0
87-C Cable Terminal transfer (pole to pole, no splicing)-Pole seat or balcony	**Communication**			0				0
88-Multiple Distribution Wire terminal Transfer	**Communication**			0				0
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):								
89-A Cable terminal replacement - All types terminals except Ready Access 25 pair or less	**Communication**			0				0
89-B Cable terminal replacement Ready Access 24 Pair or less	**Communication**			0				0
89-C 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
Note: Splice enclosure disassemble/re-assemble cost embedded in prices listed above. **NOTE**: 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.								
INSTALLATION COSTS - GUYS AND ANCHORS ----------								
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)
111 - C Anchors-PISA screw anchor	**Both**			0				0
111 - D Anchors-Hydraulically driven (mantaray)	Both			0				0
111 - E Anchors-Concreting an anchor	**Both**			0				0
111 - F Anchors-Sale of abondoned anchor to another utility-all sizes	**Both**			0				0
111 - G Anchors-Existing anchor purchase (Rear property)	**Both**			0				0
111 - H Anchors-Existing Anchor Purchase (street/alley)	**Both**			0				0
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.								
112 - A Sidewalk anchor fittings-2" pipe brace & fittings	**Both**			0				0
112 - B Sidewalk anchor fittings-2 1/2" pipe brace & fittings	**Both**			0				0
112 - C Sidewalk anchor fittings-3" pipe brace & fittings	**Both**			0				0
112 - D Sidewalk anchor fittings-Sale of abandoned pipe brace &fittings to another utility-all sizes	**Both**			0				0
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.								
115 - A Heel/toe bracing pole-with treated wood blocks, new pole	**Both**			0				0
115 - B Heel/toe bracing pole-with treated wood blocks, existing pole	**Both**			0				0
115 - C Heel/toe bracing pole-with fiberglass blocks, new pole	**Both**			0				0
115 - D Heel/toe bracing pole-with fiberglass blocks, existing pole	**Both**			0				0
116 - A Breast blocking only, new or existing pole-w/treated wood block	**Both**			0				0
116 - B Breast blocking only, new or existing pole-w/concrete block	**Both**			0				0
116 - C Breast blocking only, new or existing pole-w/fiberglass block	**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)
119 - Installation of special guy equipment not listed: Specify under this item number the nature thereof and the agreed cost (Section 1.2).								
INSTALLATION COSTS - POWER CIRCUITS ----------								
120 Crossarms, standard line (pins and insulators are extra): These are costs for installation or attachment to existing (For attachment to existing, use arm cost only)								
120 - A 0-7.5KV single **WOODEN** arm	**Power**			0				0
CF ARM	**Power**			0				0
Plus conductor	**Power**			0				0
120 - B 0-7.5KV Double **WOODEN** arm	**Power**			0				0
CF ARM	**Power**			0				0
Plus conductor	**Power**			0				0
120 - C 0-7.5KV Double **WOODEN** arm with reinforcing brackets	**Power**			0				0
CF ARM	**Power**			0				0
Plus conductor	**Power**			0				0
120 - D 0-7.5KV **WOODEN** Sidearm-single	**Power**			0				0
CF ARM	**Power**			0				0
Plus conductor	**Power**			0				0
120 - E 0-7.5KV **WOODEN** Sidearm-Double	**Power**			0				0
CF ARM	**Power**			0				0
Plus conductor	**Power**			0				0
120 - F 7.6-15KV Single **WOODEN** arm	**Power**			0				0
CF ARM	**Power**			0				0
Plus conductor	**Power**			0				0
120 - G -7.6-15KV Double **WOODEN** arm	**Power**			0				0
CF ARM	**Power**			0				0
Plus conductor	**Power**			0				0
120 - H -7.6-15KV **WOODEN** Sidearm-single	**Power**			0				0
CF 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)
Plus conductor	**Power**			0				0
120 - I 7.6-15KV **WOODEN** Sidearm-Double	**Power**			0				0
CF ARM	**Power**			0				0
Plus conductor	**Power**			0				0
120 -J Crossarms-**WOODEN**, standard line-16-115KV Single arm	**Power**			0				0
CF ARM	**Power**			0				0
16-34KV	**Power**			0				0
66-115KV	**Power**			0				0
120 -K Crossarms-**WOODEN**, standard line-16-115KV Double arm	**Power**			0				0
CF ARM	**Power**			0				0
16-34KV	**Power**			0				0
66-115KV	**Power**			0				0
120 -L Crossarms-**WOODEN**, standard line-16-115KV Double arm w/rein brckets	**Power**			0				0
CF ARM	**Power**			0				0
16-34KV	**Power**			0				0
66-115KV	**Power**			0				0
120 -M Crossarms-**WOODEN**, standard line-16-115KV Sidearm single	**Power**			0				0
CF ARM	**Power**			0				0
16-34KV	**Power**			0				0
66-115KV	**Power**			0				0
120 -N Crossarms-**WOODEN**, standard line-16-115KV Sidearm Double	**Power**			0				0
CF ARM	**Power**			0				0
16-34KV	**Power**			0				0
66-115KV	**Power**			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)
121. Pole top extensions, including arms (pins and insulators are extra):								
121 -A Pole top extensions, including arms: 6-7 ft extension (extension complete)	**Power**			0				0
Plus conductor each	**Power**			0				0
121 -B Pole top extensions, including arms:8-9 ft extension (extension complete)	**Power**			0				0
Plus conductor each	**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.								
122 -A Insulators including pins and hardware: 0-7.5kV pin type, each	**Power**			0				0
122 -B Insulators including pins and hardware: 11 or 16kV pin type each	**Power**			0				0
122 -C Insulators including pins and hardware: 34kV pin type each	**Power**			0				0
122 -D Insulators including pins and hardware: 66kV pin type each	**Power**			0				0
122 -E Insulators including pins and hardware: 11 and 16kV post type each	**Power**			0				0
122 -F Insulators including pins and hardware: 34kV post type each	**Power**			0				0
122 -G Insulators including pins and hardware: 66KV post type each	**Power**			0				0
122 -H Insulators including pins and hardware: 34-115kV suspension (strain) type, each insulator	**Power**			0				0
123. Dead ends, on arm or direct to pole, per each strain dead end:								
123 -A 0-750 volt seconday	**Power**			0				0
123 -B 750-7,500 volt primary	**Power**			0				0
123 -C 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)
123 -D 11 or 16KV-2 strain insulators	**Power**			0				0
123 -E 34kv - 4/0 conductor or smaller - 2 insulators	**Power**			0				0
123 -F 34kv - 4/0 conductor or smaller - 3 insulators	**Power**			0				0
123 -G 34kv - larger than 4/0 conductor - 3 insulators	**Power**			0				0
123 -H 66 to 115kv - 4/0 conductor or smaller – 4 insulators	**Power**			0				0
123 -I 66 to 115kv - larger than 4/0 conductor - 4 insulators	**Power**			0				0
123 -J 750-7500 volt primary silicone insulators	**Power**			0				0
123 -K 34KV – silicone insulators	**Power**			0				0
NOTE:								
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
124 -A Racks/Brackets,secondary-Rack, 3 or 4 wire - direct to pole	**Power**			0				0
124-A Plus conductor each	**Power**			0				0
124 -B Racks/Brackets,secondary - Bracket, triplex	**Power**			0				0
124-B Plus triplex conductor each	**Power**			0				0
125 - Ground assembly, complete	**Power**			0				0
Note:For secondary neutral ground, this item is to be used only by those utilities that have executed agreements for the installation of grounds.								
126-A Support: single insulator, fiberglass	**Power**			0				0
126-B Support: Double insulator, fiberglass	**Power**			0				0
126-C Support: Triple insulator, fiberglass	**Power**			0				0
126-D Support: Pole Top insulator, fiberglass	**Power**			0				0
127 Support, single dead end fiberglass	**Power**			0				0
128-A Insulator mounting bracket-single(vertical or horizontal)	**Power**			0				0
128-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)
128-C Insulator mounting bracket-Single over 40KV	**Power**			0				0
129-A Steel Crossarm, squirrel cage brcket, including insulator-Single	**Power**			0				0
129-B Steel Crossarm, squirrel cage brcket, including insulator-Double	**Power**			0				0
130 Double circuit sidemount insulators-Dreyfuss sunburst	**Power**			0				0
131 Insulator assembly bracket for endarm mounting	**Power**			0				0
132-A mounting bracket: two transformers	**Power**			0				0
132-B mounting bracket: three transformers	**Power**			0				0
NOTE: Refer to Item 120 for conductor cost.								
149 - Installation of power line equip. not listed-Special Agreement 1.2.								
INSTALLATION COSTS - COMMUNICATION CIRCUITS ----------								
159-Semi-circular cable guard ("U" guard): installation	**Communication**			0				0
160. Crossarms: (For installation or attachment to existing with service wire only):								
160-A Crossarms-single wood service	**Communication**			0				0
160-B Crossarms-Double wood service	**Communication**			0				0
160-C Crossarms-Composite Fiberglass Arm	**Communication**			0				0
160-D Crossarms-Attach to existing arm **no charge**	**Communication**							
161. Guard arms: (For installation or attachment to existing with service wire only):								
161-A Guard arms-single wood service	**Communication**			0				0
161-B -Guard arms-Double wood service	**Communication**			0				0
161-C -Guard arms-Composite Fiberglass	**Communication**			0				0
163. Drive hook with wedge grip unit ("P" tie), either single drop or multiple drop wire, including conductor:								
163 - A Drive hook with one wedge grip unit	**Communication**			0				0
163 - 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)
164 - A Cable arm(install or attch to existing)-Single **WOOD** arm W/one cable	**Communication**			0				0
CF ARM	**Communication**			0				0
164 - B Cable arm(install or attch to existing)-Double **WOOD** arm W/one cable	**Communication**			0				0
CF ARM	**Communication**			0				0
164 - C Cable arm(install or attch to existing)-Extension **WOOD** arm W/one cable	**Communication**			0				0
CF ARM	**Communication**			0				0
164 - D Cable arm(install or attch to existing)-Additional cable(on separate messenger) on same arm	**Communication**			0				0
164 - E Cable arm(install or attch to existing)-Attach to existing cable arm-**NO CHARGE**								
165 - Cable attached direct to interset pole, each	**Communication**			0				0
166 - A Messenger reinforcing units-reinforcing strap ea.	**Communication**			0				0
167 - A Messenger without cable - single arm	**Communication**			0				0
167 - B Messenger without cable - Double arm	**Communication**			0				0
167 - C Messenger without cable - Extension arm ("F" or Alley arm)	**Communication**			0				0
167 - D Messenger without cable - Direct to pole	**Communication**			0				0
167 -E Messenger without cable - additional messenger	**Communication**			0				0
168 - Multiple distribution service wire attached to pole or arms	**Communication**			0				0
169 -Protective covering - wood or plastic: (Box guard) Street light stds. (marbelite or metal), each location	**Communication**			0				0
NOTE: Billing is optional, depending on policy of utility.								
170 - Bonding to secondary neutral ground, per pole	**Communication**			0				0
199-Installation of wireless equipment or communication equipment not listed: *Specify under this item number the nature thereof and the agreed cost under Section 1.2.*								
Matrix reviewed by Authorized Committee & Approved by the Administrative Board on 11/16/2022		**LEGEND:**		= 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				

Column/Element Definitions

Column 1: *Item number and definition.*
Authorized Cost item number, and description.

Column 2: *Power/Communication/Both*
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.

Column 3: *Direct Labor (loaded)*
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.

Column 4: *Total Labor Hours*
The average amount of time (in hours and/or quarter-hour increments) directly related to the workmen who perform this transaction/operation.

Column 5: *Total Direct Labor*
This is calculated by multiplying the Direct Labor (loaded) in column 3 times Total Labor Hours in column 4.

Column 6: *Material Cost (FOB)*
The average material expense (includes sales tax, and transportation costs) purchased for this transaction/operation.

Column 7: *Equipment Expense*
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.

Column 8: *General and Administrative*
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.

Column 9: *Total Cost*
The total cost is calculated by summing the dollar values in columns #5, #6, #7, and #8.

***** 08/16/2016: Item 19 authorized cost calculation is determined by:**
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.