

AUTHORIZED COSTS

(Costs incurred or shared under this schedule shall apply for work that is to be performed)

POLE MAINTENANCE AND MISCELLANEOUS

ITEM	30' & 35'	40' & 45'	50' & 55'	60' & 65'	70' & 75'	80' & 85'	90' & 95'	100'
1. Trenching or moving: (with supply)*	2568	3188	3515	3841	6298	6788	7237	7482
2. Trenching or moving: (without supply)*	945	964	1678					
3. Lowering or raising to grade (one operation) :	1056	1166	1457	1582	1679	1932	2060	2143
4. Straightening in earth*:	954	1020	1112	1791	1582	1843	1871	3400
5. Removing from service:								
(a) Pulling (includes 1 hour pre-planning and engineering)								per pole 914
(b) Transporting.....								per pole 283
(c) Topping Pole (based on cut and lowering of pole top).....								per pole 622
(d) Disposal (effective 07/01/02).....								per pole 598
(e) Lowering.....								per pole 265
(f) Removal of steel truss (any size).....								per pole 826
(Rev 01/01/2017)								
6. Pole Stubbing (stub-size):								
(a) 8 ft. metal truss.....								1306
(b) 10 ft. metal truss.....								1653
(c) 11 ft. metal truss.....								1473
(d) 12 ft. metal truss.....								1364
(e) 13 ft. metal truss								1672
(f) 14 ft. metal truss.....								2175
(g) 15.5 ft. metal truss								2337
(h) Additional metal trusses (all sizes).....								790
(i) Inaccessible to stubbing equipment.....								922
7. Intentionally left blank								
8. Semi-circular pole guards:								
(a) Installation.....								219
(b) Transferring.....								150
9. Hand Dig Pole Set/Hand Removal:								
(do not apply to Sec 7.4 or rear property line)								
(a) Pole set: Not accessible to digging equipment.....								1535
(b) Pole set/removal: Accessible with Conflict-Must specify nature of conflict on Form 48, Form 7, or Form 2.....								1585
(c) Pole removal not accessible to removal equipment (hand dig only removal) (justification is necessary)								1522
(Rev 01/01/2017)								
10. Sidewalk or 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)								
(a) Cement break and temporary repair.....								1350
(b) Asphalt break and repair.....								1271
(c) Cement saw cut break and repair. Based on 25 square feet.....								999
(d) Cement saw cut break and repair. Based on 50 square feet.....								681
(e) ADA accessible ramp.....								12328
(Rev 01/01/2017)								
11. Joint Rights of Way: (By special agreement)								

AUTHORIZED COSTS

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ITEM

12. Pole Inspections and Treatment

(a) Reserved for future use	
(b) Partial Dig.....	119
(c) Sound and Bore.....	116
(d) Full Treatment.....	125
(e) Reject.....	120
Note: May only be billed once every 5 years (Effective May 2011).	
(f) Re-inspection of reinforced poles (may only be billed once every 10 years, effective 06/01/2011).....	143

13. Pole/anchor access obstructions:

(a) Clearing poles in State Responsibility area..... (Includes cost of contractor to perform activity and post Quality Control inspection)	283
(b) Removal of vegetation to facilitate the placement/replacement/removal of a pole	333
(c) All other by Special Agreement Section 1.2 such as landscape/hardscape restoration written estimate required.	
(d) Traffic Control (By Special Agreement Section 1.2)	

14. Failure to Final JPA Administrative Fee (per pole cost).....

(a) Including correction of records	306
(b) Field verification only	164

15. Pole Marking

(a) Tagging.....	48
(b) Visibility Strips	48

16. Backhoe:

(a) 2 hour minimum.....	273
(b) Each additional hour (inclusive operator & truck).....	180

17. Wood pole fiberglass wrap restoration:

(a) Pole set in dirt (8 ft. standard).....	1810
(b) Pole set in asphalt (includes cost of \$140 for asphalt / 8 ft. standard).....	2427
(c) Pole set in concrete (includes cost of \$245 for concrete / 8 ft. standard).....	2428
(d) Additional foot exceeding 8 ft. standard.....	116

18. Mod pole material and installation:

(a) 9'.....	5674
(b) 14'.....	6455
(c) 18'.....	6792

Prices established are from price list received from Pole Care 6-23-00

19. Cost for cut & kick:

Only to be used with Section 7.4. Must state benefiting member(s) or mutual benefit under "Nature of Work"

(a) Pole placement located on street without riser and/or equipment	2079
(b) Pole placement located on street with riser and/or equipment.....	2452
(c) Pole placement on rear property with or without riser and/or equipment not accessible to digging equipment.....	3661
(Note: Item 9 not to be used concurrently with item 19 A,B,C)	
(Rev 01/01/2017)	

***NOTE:** Items 1,2,4 and 6 - For pole in sidewalk or pavement, use the specified "in earth" cost and add Item 10 as a separate item for the cost of sidewalk or pavement repair.

AUTHORIZED COSTS**(Costs incurred or shared under this schedule shall apply for work that is to be performed)**

**TRENCHING OR MOVING
In Earth, 5' or Less, Item 1 (With Supply)
Allocation of Costs
Based on the Price Per Foot Concept**

Pole Size	Authorized Cost	Per Foot Cost	Total Shared \$	2 Owners Shared \$	3 Owners Shared \$	4 Owners Shared \$	5 Owners Shared \$	6 Owners Shared \$
30'	2568	85.60	2140.00	1070.00	713.33	535.00	428.00	356.67
35'	2568	73.37	2127.77	1063.89	709.26	531.94	425.55	354.63
40'	3188	79.70	2391.00	1195.50	797.00	597.75	478.20	398.50
45'	3188	70.84	2125.33	1062.67	708.44	531.33	425.07	354.22
50'	3515	70.30	2179.30	1089.65	726.43	544.83	435.86	363.22
55'	3515	63.91	1981.18	990.59	660.39	495.30	396.24	330.20
60'	3841	64.02	2048.53	1024.27	682.84	512.13	409.71	341.42
65'	3841	59.09	1890.95	945.48	630.32	472.74	378.19	315.16
70'	6298	89.97	2969.06	1484.53	989.69	742.26	593.81	494.84
75'	6298	83.97	2771.12	1385.56	923.71	692.78	554.22	461.85
80'	6788	84.85	2884.90	1442.45	961.63	721.23	576.98	480.82
85'	6788	79.86	2715.20	1357.60	905.07	678.80	543.04	452.53
90'	7237	80.41	2814.39	1407.19	938.13	703.60	562.88	469.06
95'	7237	76.18	2666.26	1333.13	888.75	666.57	533.25	444.38
100'	7482	74.82	2618.70	1309.35	872.90	654.68	523.74	436.45

AUTHORIZED COSTS

(Costs incurred or shared under this schedule shall apply for work that is to be performed)

**TRENCHING OR MOVING
In Earth, 5' or Less, Item 2 (Without Supply)
Allocation of Costs
Based on the Price Per Foot Concept**

Pole Size	Authorized Cost	Per Foot Cost	Total Shared \$	2 Owners Shared \$	3 Owners Shared \$	4 Owners Shared \$	5 Owners Shared \$	6 Owners Shared \$
30'	945	31.50	787.50	393.75	262.50	196.88	157.50	131.25
35'	945	27.00	783.00	391.50	261.00	195.75	156.60	130.50
40'	964	24.10	723.00	361.50	241.00	180.75	144.60	120.50
45'	964	21.42	642.67	321.33	214.22	160.67	128.53	107.11
50'	1678	33.56	1040.36	520.18	346.79	260.09	208.07	173.39
55'	1678	30.51	945.78	472.89	315.26	236.45	189.16	157.63

AUTHORIZED COSTS**(Costs incurred or shared under this schedule shall apply for work that is to be performed)**

**LOWERING OR RAISING
to Grade, Item 3
Allocation of Costs
Based on the Price Per Foot Concept**

Pole Size	Authorized Cost	Per Foot Cost	Total Shared \$	2 Owners Shared \$	3 Owners Shared \$	4 Owners Shared \$	5 Owners Shared \$	6 Owners Shared \$
30'	1056	35.20	880.00	440.00	293.33	220.00	176.00	146.67
35'	1056	30.17	874.97	437.49	291.66	218.74	174.99	145.83
40'	1166	29.15	874.50	437.25	291.50	218.63	174.90	145.75
45'	1166	25.91	777.33	388.67	259.11	194.33	155.47	129.56
50'	1457	29.14	903.34	451.67	301.11	225.84	180.67	150.56
55'	1457	26.49	821.22	410.61	273.74	205.30	164.24	136.87
60'	1582	26.37	843.73	421.87	281.24	210.93	168.75	140.62
65'	1582	24.34	778.83	389.42	259.61	194.71	155.77	129.81
70'	1679	23.99	791.53	395.76	263.84	197.88	158.31	131.92
75'	1679	22.39	738.76	369.38	246.25	184.69	147.75	123.13
80'	1932	24.15	821.10	410.55	273.70	205.28	164.22	136.85
85'	1932	22.73	772.80	386.40	257.60	193.20	154.56	128.80
90'	2060	22.89	801.11	400.56	267.04	200.28	160.22	133.52
95'	2060	21.68	758.95	379.47	252.98	189.74	151.79	126.49
100'	2143	21.43	750.05	375.03	250.02	187.51	150.01	125.01

AUTHORIZED COSTS**(Costs incurred or shared under this schedule shall apply for work that is to be performed)**

**STRAIGHTENING
in Earth, Item 4
Allocation of Costs
Based on the Price Per Foot Concept**

Pole Size	Authorized Cost	Per Foot Cost	Total Shared \$	2 Owners Shared \$	3 Owners Shared \$	4 Owners Shared \$	5 Owners Shared \$	6 Owners Shared \$
30'	954	31.80	795.00	397.50	265.00	198.75	159.00	132.50
35'	954	27.26	790.46	395.23	263.49	197.61	158.09	131.74
40'	1020	25.50	765.00	382.50	255.00	191.25	153.00	127.50
45'	1020	22.67	680.00	340.00	226.67	170.00	136.00	113.33
50'	1112	22.24	689.44	344.72	229.81	172.36	137.89	114.91
55'	1112	20.22	626.76	313.38	208.92	156.69	125.35	104.46
60'	1791	29.85	955.20	477.60	318.40	238.80	191.04	159.20
65'	1791	27.55	881.72	440.86	293.91	220.43	176.34	146.95
70'	1582	22.60	745.80	372.90	248.60	186.45	149.16	124.30
75'	1582	21.09	696.08	348.04	232.03	174.02	139.22	116.01
80'	1843	23.04	783.28	391.64	261.09	195.82	156.66	130.55
85'	1843	21.68	737.20	368.60	245.73	184.30	147.44	122.87
90'	1871	20.79	727.61	363.81	242.54	181.90	145.52	121.27
95'	1871	19.69	689.32	344.66	229.77	172.33	137.86	114.89
100'	3400	34.00	1190.00	595.00	396.67	297.50	238.00	198.33

**TRANSFER COSTS
GUY WIRES**

ITEM

20. Guy wires - transfer (overhead, span, arm, or anchor) including insulators if used:

(a) All types and sizes, each end.....	315
(b) Sidewalk anchor guys (pipe brace and fittings, all sizes).....	471
NOTE: When necessary to relocate a guy insulator, add the following to above cost:	
(c) Insulator relocation.....	262

**TRANSFER COSTS
POWER CIRCUITS**

ITEM

21. Crossarms - raising, lowering, or transferring of all size crossarms whether in flat, vertical, sidearm or triangular configuration, including the insulators:

	Transfer Arm	Transfer Conductor (splicing required)	Transfer Conductor (no splicing)
(a) 0-7.5kv single arm (includes service arm).....	433	351	237
(b) 0-7.5kv double arm.....	841	351	237
(c) 0-7.5kv double arm with reinforcing bracket.....	1355	351	237
(d) 0-7.5kv sidearm - single.....	261	391	261
(e) 0-7.5kv sidearm - double.....	1152	400	286
(f) 7.6-15kv single arm.....	261	652	522
(g) 7.6-15kv double arm.....	522	652	522
(h) 7.6-15kv sidearm - single.....	522	652	522
(i) 7.6-15kv sidearm - double.....	913	652	522
(j) 16-34kv single arm.....	669	661	547
(k) 16-34kv double arm.....	987	661	547
(l) 16-34kv double arm with reinforcing bracket.....	1503	661	547
(m) 16-34kv sidearm - single.....	652	652	522
(n) 16-34kv sidearm - double.....	1355	710	596
(o) 66-115kv single arm.....	783	652	522
(p) 66-115kv double arm.....	1044	652	522
(q) 66-115kv steel arm.....	1090	652	522

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.

22. Dead ends - on arm or direct to pole, per each dead end, any conductor size:

(a) 0-750 volt secondary.....	237
(b) 750-7,500 volt primary.....	506
(c) 7.6-115kv - 1 or 2 strain insulators.....	1208
(d) 7.6-115kv - 3 or 4 strain insulators.....	1273
(e) 7.6-115kv - 5 or 6 strain insulators.....	783

NOTE: For dead ends on arm, add the cost of appropriate arm listed under Item 21. Add Item 24 for bonding cost

AUTHORIZED COSTS

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ITEM

23. Changing type of construction – horizontal to vertical, triangular to horizontal, vertical to horizontal, etc.: (labor cost only - additional arms are extra)	
(a) Horizontal to vertical 7.5-115kv single arm, per pole.....	2170
(a1) Triangular to Horizontal 7.5-115kv single arm, per pole	1890
(a2) Vertical to Horizontal 7.5-115kv single arm, per pole	2255
(b) Horizontal to vertical 7.5-115kv double arm, per pole.....	2170
(b1) Triangular to Horizontal 7.5-115kv double arm, per pole	1890
(b2) Vertical to Horizontal 7.5-115kv double arm, per pole	2255
NOTE: Cost of rebonding is included in above prices.	
24. Bonding, per pole:	
(a) Single circuit - all voltages.....	375
(b) Double circuit - all voltages.....	620
25. Ground wire, including protective covering.....	539
26. Pole top switches (oil or open air): Price by field agreement (cost to be estimated and agreed to by field engineers)	
27. Racks and brackets, secondary:	
(a) Rack, 3 or 4 wire - direct to pole.....	310
plus conductor, each.....	212
(b) Bracket, triplex.....	220
plus triplex conductor.....	212
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. Service conductors - transferring, raising or lowering:	
(a) #4 conductor or smaller.....	139
(b) Larger than #4 conductor.....	220
(c) Triplex service conductors.....	171
29. Transformers, including cutouts, heel arm, and lightning arresters (hanger arms or brackets are extra):	
(a) 1-1/2 to 25 kva, each.....	2995
(b) 30 to 167 kva, each.....	3256
(c) Mounting brackets, two transformers.....	318
NOTE: 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.	
30. Capacitors and associated equipment:	
(a) Capacitor bank, switched.....	4846
(b) Capacitor bank, non-switched.....	3166
31. Street lights:	
(a) Center suspension type - span end.....	261
(b) Center suspension type - feed end.....	548
(c) Goose neck or bracket type - open wire.....	261
(d) Goose neck or bracket type - conduit on pole.....	560
(e) Mast arm type.....	651
(f) Pole top pin and insulator - single.....	161
(g) Pole top pin and insulator - double.....	70
32. Meter or time switch control box: Price by field agreement	
33. Supports:	
(a) Single insulator, fiberglass.....	261
(b) Double insulator, fiberglass.....	300
(c) Triple insulator, fiberglass.....	239
(d) Pole top insulator, fiberglass.....	276
34. Support, single dead end, fiberglass.....	261

AUTHORIZED COSTS

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ITEM

35. Insulator mounting brackets:	
(a) Single (vertical or horizontal).....	392
(b) Double (vertical).....	718
(c) Single, over 40kv.....	783
36. Steel crossarm, squirrel cage bracket, including insulator:	
(a) Single.....	352
(b) Double.....	509
37. Double circuit side mount insulators ("Dreyfuss Sunburst").....	6263
38. Insulator assembly bracket for endarm mountings.....	697
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.	

TRANSFER COSTS COMMUNICATION CIRCUITS

ITEM

74. Semi-circular cable guard ("U" guard): transferring.....	235
75. Crossarms/Guardarms - transferring, raising, or lowering, per arm:	
(a) Single.....	247
(b) Double.....	255
78. Drive hook with wedge grip unit ("P" tie), either single drop wire or multiple drop wire including conductor:	
(a) Transferring, raising, or lowering drive hook with one wedge grip unit.....	54
(b) Transferring, raising, or lowering additional wedge grip units on same hook, each.....	42
79. Multiple distribution service wire on line pole.....	103
81. "C" rural wire (1 pair):	
(a) "C" rural wire in line pole, each pair.....	86
(b) "C" rural wire on dead-end pole, each pair.....	100
82. Cable arm with one cable - transferring, raising, or lowering:	
(a) Single wood arm.....	411
(b) Double wood arm.....	433
(c) Extension arm ("F" or Alley arm).....	419
(d) Additional cable (on separate messenger) on same arm.....	447
NOTE: The above prices do not include cable terminals.	
83. (a) Cable attached direct to pole – Complete.....	241
(b) Cable attached (additional work required).....	159
(01/01/2017)	
84. Messenger reinforcing units:	
(a) Reinforcing strap, each.....	219
(b) Reinforcing link, each.....	219
85. Messenger without cable - transferring, raising, or lowering: (See Item 82 for transfer of arms)	
(a) Single wood arm.....	260
(b) Double wood arm.....	282
(c) Extension arm ("F" or Alley arm).....	272
(d) Direct to pole.....	292

AUTHORIZED COSTS

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ITEM

86. Messenger dead end, all sizes, with or without cable.....	249
87. Cable terminal transfer: (pole to pole, no splicing)	
(a) Distribution cable terminal (25x - 50x).....	236
(b) Feeder distribution interface.....	376
(c) Pole seat or balcony.....	335
88. Multiple distribution wire terminal transfer.....	238
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) :	
(a) All types of terminals except Ready Access-25 Pair or less.....	394
(b) Ready Access-24 Pair or less.....	298
(c) Ready Access-24 Pair to 50 Pair.....	351
NOTE -When necessary to use multiple distribution stub, add the following to cost above;	
(d) Multiple distribution stub for Ready Access type.....	399

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. Cable splicing, average cost per splice, per pair:

(a) 18 pair.....	@ 16.06 per pair.....	289
(b) 25 pair.....	@ 11.84 per pair.....	296
(c) 50 pair.....	@ 7.30 per pair.....	365
(d) 100 pair.....	@ 5.47 per pair.....	547
(e) 200 Pair.....	@ 4.20 per pair.....	840
(f) 300 pair.....	@ 3.83 per pair.....	1149
(g) 400 pair.....	@ 3.39 per pair.....	1354
(h) 600 pair.....	@ 3.17 per pair.....	1900
(i) 700 pair.....	@ 3.14 per pair.....	2195
(j) 800 pair.....	@ 3.14 per pair.....	2509
(k) 900 pair.....	@ 3.10 per pair.....	2788
(l) 1200 pair.....	@ 3.06 per pair.....	3676

***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:.....	315
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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. (Section 1.2 by special agreement)

94. Fiber Optic Splicing/Testing:

(a) FUSION	
(1) 24 strand.....	1643
(2) 48 strand.....	2560
(3) 60 strand.....	3219
(4) 72 strand.....	3694
(5) 96 strand.....	4782
(6) 144 strand.....	6607
(7) 288 strand.....	12527
(8) Any size above and beyond by special agreement Section 1.2	

AUTHORIZED COSTS

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ITEM

96. Intentionally left blank

97. Transfer meter circuit breaker box/disconnect box..... 765

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**

ITEM

110. Guy wire, complete make-up:

(a) Overhead, span, or arm guy.....	464
(b) Anchor guy.....	428
(c) Cutting-in an insulator in existing guy.....	346
(d) Attaching span guy to interset pole.....	362
(e) Guy guards.....	313

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. Anchors:

(a) Expanding Plate (Hand Dig).....	979
(b) Expanding Plate (Truck Access).....	701
(c) PISA (Screw Anchor).....	736
(d) Hydraulically Driven (Mantaray).....	672
(e) Concreting an anchor.....	368
(f) Sale of abandoned anchor to another utility – all sizes.....	245
(g) Existing Anchor Purchase (Rear property).....	616
(h) Existing Anchor Purchase (Street/alley).....	339

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. Sidewalk anchor fittings:

(a) 2" pipe brace and fittings.....	353
(b) 2-1/2" pipe brace and fittings.....	339
(c) 3" pipe brace and fittings.....	356
(d) Sale of abandoned pipe brace and fittings to another utility - all sizes.....	292

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. Heel/toe bracing pole:

(a) With treated wood blocks, new pole.....	490
(b) With treated wood blocks, existing pole.....	752
(c) With fiberglass blocks, new pole.....	565
(d) With fiberglass blocks, existing pole.....	957

116. Breast blocking only, new or existing pole:

(a) With treated wood block.....	600
(b) With concrete block.....	643
(c) With fiberglass block.....	675

119. Installation of special guy equipment not listed:
Specify under this item number the nature thereof and the agreed cost (Section 1.2).

AUTHORIZED COSTS

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INSTALLATION COSTS POWER CIRCUITS

ITEM

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)

	Wooden Arm	CF Arm	Plus Conductor Each	
(a) 0-7.5kv single arm (includes service).....	324	505	215	
(b) 0-7.5kv double arm.....	630	966	215	
(c) 0-7.5kv double arm with reinforcing brackets.....	1254	1953	215	
(d) 0-7.5kv sidearm - single.....	332		217	
(e) 0-7.5kv sidearm - double.....	879	1279	264	
(f) 7.6-15kv single arm.....	302		217	
(g) 7.6-15kv double arm.....	602		217	
(h) 7.6-15kv sidearm - single.....	333		217	
(i) 7.6-15kv sidearm - double.....	670		217	
	Wooden Arm	CF Arm	16-34KV	66-115KV
(j) 16-115kv single arm.....	525	659	264	315
(k) 16-115kv double arm.....	990	1617	422	631
(l) 16-115kv double arm with reinforcing brackets.....	1518	2441	539	865
(m) 16-115kv sidearm - single.....	460		460	460
(n) 16-115kv sidearm - double.....	1222	1930	508	706

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.

	Extension Complete	Plus Conductor Each
121. Pole top extensions, including arms (pins and insulators are extra):		
(a) 6 or 7 ft. extension.....	1763	264
(b) 8 or 9 ft. extension.....	1668	264

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. Insulators, including pins and hardware:	
(a) 0-7.5kV pin type, each.....	107
(b) 11 or 16kV pin type, each.....	104
(c) 34kV pin type, each.....	294
(d) 66kV pin type, each.....	266
(e) 11 and 16kV post type, each.....	131
(f) 34kV post type, each.....	308
(g) 66kV post type, each.....	390
(h) 34 to 115kV suspension (strain) type, each insulator.....	181

AUTHORIZED COSTS

(Costs incurred or shared under this schedule shall apply for work that is to be performed)

ITEM

123. Dead ends, on arm or direct to pole, per each strain dead end:	
(a) 0-750 volt secondary.....	109
(b) 750-7,500 volt primary.....	139
(c) 11 or 16kv - 1 strain insulator.....	81
(d) 11 or 16kv - 2 strain insulators.....	155
(e) 34kv - 4/0 conductor or smaller - 2 insulators.....	373
(f) 34kv - 4/0 conductor or smaller - 3 insulators.....	414
(g) 34kv - larger than 4/0 conductor - 3 insulators.....	455
(h) 66 to 115kv - 4/0 conductor or smaller - 4 insulators.....	1072
(i) 66 to 115kv - larger than 4/0 conductor - 4 insulators.....	1135
(j) 750-7500 volt primary silicone insulators.....	201
(k) 34KV - silicone insulators.....	324

NOTE: Add \$74 for each additional insulator on items (c) to (d). Add \$165 for each additional insulator on items (e) to (f). Add \$180 for each additional insulator on item (g). Add \$246 for each additional insulator on item (h). Add \$262 for each additional insulator on item (i). See Item 120 for cost of arms.

124. Racks and brackets, secondary:	
(a) Rack, 3 or 4 wire - direct to pole.....	224
plus conductor, each.....	190
(b) Bracket, Triplex.....	162
plus Triplex conductor.....	192

125. Ground assembly, complete.....	491
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. Support:	
(a) Single insulator, fiberglass.....	228
(b) Double insulator, fiberglass.....	309
(c) Triple insulator, fiberglass.....	178
(d) Pole top insulator, fiberglass.....	238

127. Support, single dead end, fiberglass.....	237
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128. Insulator mounting bracket:	
(a) Single (vertical or horizontal).....	468
(b) Double (vertical).....	937
(c) Single, over 40kv.....	841

129. Steel crossarm, squirrel cage bracket, including insulator:	
(a) Single.....	550
(b) Double.....	491

130. Double circuit side mount insulators ("Dreyfuss Sunburst").....	2308
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131. Insulator assembly bracket for endarm mounting.....	679
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132. Mounting bracket:	
(a) Two transformers.....	400
(b) Three transformers.....	563
NOTE: Refer to Item 120 for conductor cost.	

149. Installation of power line equipment not listed:	
Specify under this item number the nature thereof and the agreed cost. (Special agreement Section 1.2)	

AUTHORIZED COSTS

(Costs incurred or shared under this schedule shall apply for work that is to be performed)

INSTALLATION COSTS COMMUNICATION CIRCUITS

ITEM

159. Semi-circular cable guard ("U" guard): installation.....	179
160. Crossarms: (For installation or attachment to existing with service wire only)	
(a) Single wood service arm.....	254
(b) Double wood service arm.....	277
(c) Composite Fiberglass arm.....	246
(d) Attach to existing arm.....	No Charge
161. Guard Arms: (For installation or attachment to existing with service wire only)	
(a) Single wood service arm.....	254
(b) Double wood service arm.....	344
(c) Composite Fiberglass arm.....	246
(Rev 01/01/2017)	
163. Drive hook with wedge grip unit ("P" tie), either single drop or multiple drop wire, including conductor:	
(a) Drive hook with one wedge grip unit.....	54
(b) Additional wedge grip units on same hook, each.....	46
164. Cable arm: (For installation or attachment to existing)	
	Wooden CF
(a) Single arm w/ one cable.....	254 186
(b) Double arm w/ one cable.....	268 186
(c) Extension arm ("F" or Alley arm) w/ one cable.....	269 200
(d) Additional cable (on separate messenger) on same arm.....	245
(e) Attach to existing cable arm.....	No Charge
165. Cable attached direct to interset pole, each.....	241
166. Messenger reinforcing units:	
(a) Reinforcing strap, each.....	74
(Rev 01/01/2017)	
167. Messenger without cable:	
(a) Single arm.....	313
(b) Double arm.....	314
(c) Extension arm ("F" or Alley arm).....	313
(d) Direct to pole.....	313
(e) Additional messenger.....	289
168. Multiple distribution service wire attached to pole or arms.....	101
169. Protective covering - wood or plastic: (Box guard)	
Street light stds. (marbelite or metal), each location.....	99
NOTE: Billing is optional, depending on policy of utility.	
170. Bonding to secondary neutral ground, per pole.....	153
171. Intentionally left blank	
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.	