



THIRD PARTY DISTRIBUTION POLE ATTACHMENT MAKE-READY WORK RATE SUMMARY SHEET (dollars)

Effective: December 14th , 2016

| Item No. | Make-Ready Activity Item | R = Rearrangement | | T = Transfer | | I = Installation | | RM = Removal | | RPL = Replacement = I + RM | |
|----------|--|----------------------------|------------|---------------------------|-------------|-------------------------------|------------|---------------|------------|------------------------------|-------------|
| | | Rearrangement Costs (Labor | | Transfer Costs (Labor and | | Installation Costs (Labor and | | Removal Costs | | Replacement Costs (Labor and | |
| | | Straight Time | Overtime | Straight Time | Overtime | Straight Time | Overtime | Straight Time | Overtime | Straight Time | Overtime |
| 1 | Open Wire Secondary and Rack (each) | \$785.63 | \$1,118.75 | \$785.63 | \$1,118.75 | | | \$418.46 | \$595.89 | | |
| 2 | Multiplex Secondary and Bracket (each) | \$432.28 | \$609.72 | \$418.46 | \$595.89 | \$722.24 | \$954.39 | \$244.82 | \$348.63 | \$806.15 | \$1,142.11 |
| 3 | Re-Sag 1/0 Primary (per conductor) | \$400.60 | \$570.46 | | | | | | | | |
| 3A | Re-Sag 336.4 Primary (per conductor) | \$400.60 | \$570.46 | | | | | | | | |
| 4 | Re-Sag Multiplex Secondary (per span) | \$347.21 | \$494.44 | | | | | | | | |
| 5 | Re-Sag Open - Wire Secondary (per span) | \$1,041.59 | \$1,483.24 | | | | | | | | |
| 6 | Streetlight Bracket and Luminaire (complete assembly) | \$380.62 | \$542.01 | \$599.03 | \$845.35 | \$1,232.73 | \$1,430.90 | \$200.31 | \$285.25 | \$1,433.09 | \$1,716.20 |
| 7 | Streetlight Drip Loop Conduit (each) | \$69.16 | \$97.47 | | | \$90.47 | \$118.77 | \$66.75 | \$95.06 | \$157.22 | \$213.83 |
| 8 | Streetlight Bond (each) | \$66.75 | \$95.06 | \$141.25 | \$197.86 | \$95.80 | \$124.11 | | | | |
| 9 | Vertical Ground (down ground & connection) | | | | | \$343.68 | \$428.60 | \$133.53 | \$190.15 | \$477.21 | \$618.76 |
| 10 | Ground Rod and Connections | | | | | \$343.68 | \$428.60 | \$133.53 | \$190.15 | \$477.21 | \$618.76 |
| 11 | Secondary Drip Loop at Dead Ends (raise/redo) | \$296.79 | \$419.47 | | | \$389.13 | \$511.82 | | | | |
| 12 | Span Guy | \$133.56 | \$190.19 | \$133.56 | \$190.19 | \$615.26 | \$785.15 | \$133.34 | \$189.88 | \$748.52 | \$974.93 |
| 12A | Span Guy Bonding | | | | | \$159.38 | \$206.57 | \$111.29 | \$158.48 | \$270.67 | \$365.05 |
| 12B | Jumper Johnny Ball and Bond Guy | | | | | \$265.98 | \$345.25 | | | | |
| 13 | Down Guy | \$200.29 | \$285.21 | \$200.29 | \$285.21 | \$459.09 | \$572.34 | \$133.53 | \$190.15 | \$592.63 | \$762.49 |
| 14 | Single Crossarm 5kV & 15kV (Total Single Phase Assembly including pins, glass, braces & lags) (each) | | | \$696.58 | \$991.94 | \$676.86 | \$852.39 | \$307.11 | \$437.33 | \$983.94 | \$1,289.68 |
| 15 | Double Crossarm 5kV & 15 kV (Total Single Phase Assembly including pins, glass, braces & lags) (each) | | | \$1,295.28 | \$1,844.51 | \$1,407.47 | \$1,780.24 | \$472.48 | \$672.82 | \$1,880.14 | \$2,453.26 |
| 16 | Armless Candlestick (Single Phase Assembly) (each) | | | \$347.16 | \$494.36 | \$489.26 | \$577.96 | \$137.94 | \$196.43 | \$560.44 | \$707.63 |
| 17 | Single Alley Arm 5kV & 15kV (Total Single Phase Assembly including pins, glass, braces & lags) (each) | | | \$1,264.14 | \$1,800.16 | \$1,434.84 | \$1,810.43 | \$482.92 | \$687.69 | \$1,917.60 | \$2,497.96 |
| 18 | Double Alley Arm 5kV & 15 kV (Total Single Phase Assembly including pins, glass, braces & lags) (each) | | | \$2,178.84 | \$3,102.70 | \$2,524.19 | \$3,162.12 | \$845.74 | \$1,204.35 | \$3,369.86 | \$4,366.38 |
| 19 | Vertical Dead-end (including glass, shoe, attachment, loop) (each) | | | \$436.21 | \$621.17 | \$428.78 | \$557.12 | \$267.04 | \$380.27 | \$695.83 | \$937.40 |
| 20 | Pole Top or Side Pin (each) | | | \$151.31 | \$215.47 | \$195.85 | \$235.48 | \$57.85 | \$82.38 | \$253.71 | \$317.86 |
| 21 | Spacer Cable Tangent Bracket 5/15KV (each) | | | \$398.26 | \$567.12 | \$558.64 | \$667.37 | \$220.74 | \$314.33 | \$779.36 | \$981.68 |
| 22 | Spacer Cable Deadend Framing 5/15KV (each) | | | \$4,072.91 | \$5,799.90 | \$4,471.04 | \$5,653.44 | \$2,241.76 | \$3,192.30 | \$6,713.03 | \$8,845.98 |
| 23 | Lashed Cable Tangent Bracket 5/15KV (each) | | | \$469.97 | \$669.25 | \$500.35 | \$638.01 | \$174.21 | \$248.08 | \$674.56 | \$886.08 |
| 24 | Lashed Cable Deadend Framing 5/15KV (each) | | | \$756.72 | \$1,077.58 | \$832.72 | \$1,049.77 | \$511.89 | \$728.94 | \$1,344.65 | \$1,778.76 |
| 25 | Triplex/Neutral Bracket | \$100.16 | \$142.63 | \$100.16 | \$142.63 | \$100.54 | \$128.84 | \$66.75 | \$95.06 | \$167.29 | \$223.90 |
| 26 | 3 Wire Secondary Bracket | \$184.71 | \$263.04 | \$184.71 | \$263.04 | \$246.02 | \$313.95 | \$84.56 | \$120.41 | \$330.61 | \$434.40 |
| 27 | Cutout 5 kV & 15 Kv (complete assembly) (each) | \$605.38 | \$862.07 | \$605.38 | \$862.07 | \$648.39 | \$801.26 | \$338.23 | \$481.64 | \$986.57 | \$1,282.85 |
| 28 | Disconnect Switch 5 kV & 15kV (complete 3 Phase assembly) | | | \$4,117.26 | \$5,863.05 | \$5,196.71 | \$6,339.50 | \$1,872.33 | \$2,666.23 | \$7,069.37 | \$9,006.06 |
| 29 | Arrester 5 kV & 15kV (each) (complete assembly) | \$471.84 | \$671.92 | \$896.67 | \$1,238.29 | \$737.62 | \$922.57 | \$369.32 | \$369.32 | \$1,107.01 | \$1,448.59 |
| 30 | Conventional Transformer (through 50 kVA) | \$718.85 | \$1,023.65 | \$1,918.98 | \$2,689.97 | \$1,850.92 | \$2,330.72 | \$1,173.58 | \$1,671.19 | \$3,024.10 | \$4,001.52 |
| 30A | CSP Transformer (Remove Only) | | | | | | | \$448.06 | \$638.04 | | |
| 31 | Three Phase Transformer Bank (Up To 50 kVA) | \$3,978.98 | \$5,666.15 | \$7,152.60 | \$10,142.73 | \$6,824.36 | \$8,578.53 | \$3,018.29 | \$4,298.10 | \$9,842.71 | \$12,876.69 |
| 32 | Single Phase Capacitor | \$896.67 | \$1,276.87 | \$3,612.65 | \$5,110.79 | \$3,340.44 | \$4,276.36 | \$1,512.96 | \$2,154.49 | \$4,853.15 | \$6,430.59 |
| 33 | Three Phase Capacitor | \$1,213.04 | \$1,727.40 | \$4,590.79 | \$6,503.68 | \$4,188.54 | \$5,250.36 | \$2,042.82 | \$2,909.02 | \$6,231.03 | \$7,360.16 |



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| | | Rearrangement Costs (Labor | | Transfer Costs (Labor and | | Installation Costs (Labor and | | Removal Costs | | Replacement Costs (Labor and | |
| | | Straight Time | Overtime | Straight Time | Overtime | Straight Time | Overtime | Straight Time | Overtime | Straight Time | Overtime |
| 34 | Single Phase Regulator | \$1,210.51 | \$1,723.78 | \$3,144.56 | \$4,444.21 | \$3,448.37 | \$4,142.49 | \$1,279.00 | \$1,821.31 | \$4,727.20 | \$5,963.63 |
| 35 | Three Phase 2 Regulator Bank (each) | \$1,513.13 | \$2,154.72 | \$9,881.82 | \$14,038.20 | \$7,210.11 | \$9,506.26 | \$4,247.62 | \$6,048.69 | \$15,219.09 | \$19,459.92 |
| 36 | Three Phase 3 Regulator Bank (each) | \$1,513.13 | \$2,154.72 | \$12,199.09 | \$17,338.04 | \$13,928.45 | \$16,954.31 | \$5,233.73 | \$7,452.92 | \$19,162.19 | \$24,407.24 |
| 37 | Primary Tangent (each conductor) | \$333.82 | \$475.36 | \$333.82 | \$475.36 | | | | | | |
| 38 | Multiplex Secondary (Tangent) | \$333.82 | \$475.36 | \$333.82 | \$475.36 | | | | | | |
| 39 | Primary Dead-end - Open Wire | \$333.82 | \$475.36 | \$333.82 | \$475.36 | | | | | | |
| 40 | Secondary Dead-end Multiplex | \$333.82 | \$475.36 | \$333.82 | \$475.36 | | | | | | |
| 41 | Multiplex/Service (Splice-in add'l wire) (each) | \$329.38 | \$469.05 | \$329.38 | \$469.05 | | | | | | |
| 42 | UG Service Riser Single Phase (through 350mcm, including Connections) | | | \$934.51 | \$1,330.76 | \$1,159.19 | \$1,489.40 | \$489.51 | \$697.07 | \$1,648.68 | \$2,186.46 |
| 43 | UG Service Riser Three Phase (through 350mcm, including Connections) | | | \$934.51 | \$1,330.76 | \$1,197.99 | \$1,528.20 | \$489.51 | \$697.07 | \$1,687.49 | \$2,225.26 |
| 44 | UG Service Riser Single Phase (greater than 350mcm, including Connections) | | | \$934.51 | \$1,330.76 | \$1,196.91 | \$1,527.12 | \$489.51 | \$697.07 | \$1,686.41 | \$2,224.18 |
| 45 | UG Service Riser Three Phase (greater than 350mcm, including Connections) | | | \$934.51 | \$1,330.76 | \$1,436.82 | \$1,767.03 | \$489.51 | \$697.07 | \$1,926.32 | \$2,464.09 |
| 46 | UG Primary 7.62 kV Riser Single Phase (including splicing) | | | \$2,771.59 | \$3,946.80 | \$3,602.97 | \$4,447.05 | \$1,648.15 | \$2,346.99 | \$5,251.65 | \$6,794.59 |
| 46A | UG Primary 13.2 kV Riser Three Phase (including splicing) | | | \$4,227.09 | \$6,019.45 | \$6,331.68 | \$7,768.95 | \$2,879.52 | \$4,100.49 | \$9,211.62 | \$11,869.87 |
| 47 | Riser U-Guard (5ft per unit) | | | \$222.58 | \$316.96 | \$167.85 | \$215.04 | \$111.29 | \$158.48 | \$279.14 | \$373.52 |
| 48 | Fiber Optic Cable Bracket (each) | \$31.14 | \$44.35 | \$31.14 | \$44.35 | \$64.72 | \$77.93 | \$13.34 | \$19.00 | \$68.15 | \$87.02 |
| 49 | Lightning Arrester | | | \$400.60 | \$570.46 | \$323.17 | \$408.10 | \$200.29 | \$285.21 | \$523.46 | \$693.31 |
| 50 | Anchor and Rod | | | | | \$528.29 | \$670.11 | \$167.21 | \$238.11 | \$695.52 | \$908.23 |
| 51 | Pole Top Extension | | | | | \$2,789.33 | \$3,072.44 | \$389.49 | \$554.64 | | |
| 52 | Cut Pole Top | | | | | | | \$182.51 | \$259.90 | | |
| 53 | *Pole Replacement - 35' | | | | | \$1,691.57 | \$2,123.64 | \$506.16 | \$720.78 | \$2,197.64 | \$2,844.31 |
| 54 | *Pole Replacement - 40' | | | | | \$1,851.88 | \$2,283.94 | \$506.16 | \$720.78 | \$2,357.94 | \$3,004.62 |
| 55 | *Pole Replacement - 45' | | | | | \$2,011.47 | \$2,443.54 | \$506.16 | \$720.78 | \$2,517.53 | \$3,164.21 |
| 56 | *Pole Replacement - 50' | | | | | \$2,216.64 | \$2,648.71 | \$506.16 | \$720.78 | \$2,722.70 | \$3,369.38 |
| 57 | *Pole Replacement - 55' | | | | | \$3,162.77 | \$3,839.70 | \$597.58 | \$850.96 | \$3,760.32 | \$4,690.64 |
| 58 | *Pole Replacement - 60' | | | | | \$3,762.21 | \$4,439.14 | \$597.58 | \$850.96 | \$4,359.76 | \$5,290.08 |
| 59 | *Pole Replacement - 65' | | | | | \$4,390.60 | \$5,067.54 | \$597.58 | \$850.96 | \$4,988.16 | \$5,918.47 |
| 60 | *Pole Replacement - 70' | | | | | \$5,420.14 | \$6,097.08 | \$597.58 | \$850.96 | \$6,017.70 | \$6,948.01 |
| 61 | *Pole Replacement - 75' | | | | | \$6,289.46 | \$7,005.65 | \$533.39 | \$759.55 | \$6,822.85 | \$7,765.20 |
| 62 | *Pole Replacement - 80' | | | | | \$6,788.73 | \$7,504.92 | \$533.39 | \$759.55 | \$7,322.12 | \$8,264.48 |
| 63A | *Pole Replacement - 85' | | | | | \$7,183.13 | \$7,899.31 | \$533.39 | \$759.55 | \$7,716.51 | \$8,658.87 |
| 63B | *Pole Replacement - 90' | | | | | \$9,705.19 | \$10,421.37 | \$533.39 | \$759.55 | \$10,238.58 | \$11,180.93 |
| 63C | *Pole Replacement - 95' | | | | | \$8,462.16 | \$9,178.35 | \$533.39 | \$759.55 | \$8,995.55 | \$9,937.91 |
| 63D | *Pole Replacement - 100' | | | | | \$9,009.65 | \$9,725.83 | \$533.39 | \$759.55 | \$9,543.03 | \$10,485.39 |
| 63E | *Pole Replacement - 105' | | | | | \$9,512.36 | \$10,228.55 | \$533.39 | \$759.55 | \$10,045.75 | \$10,988.11 |
| 63F | *Pole Replacement - 110' | | | | | \$11,394.11 | \$12,110.30 | \$533.39 | \$759.55 | \$11,927.50 | \$12,869.86 |
| 63G | *Pole Replacement - 115' | | | | | \$15,087.03 | \$15,803.21 | \$533.39 | \$759.55 | \$15,620.41 | \$16,562.77 |
| 63H | *Pole Replacement - 120' | | | | | \$20,463.70 | \$21,179.89 | \$533.39 | \$759.55 | \$20,997.09 | \$21,939.44 |
| 64 | Labor Adder for Rock Dig for Pole Hourly Placement (\$/Hr.) | | | | | \$1,475.38 | \$1,949.61 | | | \$1,475.38 | \$1,949.61 |
| 65 | Three Phase Service (3 Phase, 4 Wire to 1/0 Quadraplex) | | | \$513.44 | \$721.94 | \$476.20 | \$621.68 | \$4.44 | \$6.32 | \$619.80 | \$828.29 |
| 65A | Three Phase Service (3 Phase, 4 Wire to 336.4 Quadraplex) | | | \$559.69 | \$768.18 | \$525.23 | \$670.71 | \$4.44 | \$6.32 | \$725.43 | \$955.82 |



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|---|---|--|------------|---------------------------|------------|-------------------------------|------------|---------------|----------|------------------------------|------------|
| | | Rearrangement Costs (Labor | | Transfer Costs (Labor and | | Installation Costs (Labor and | | Removal Costs | | Replacement Costs (Labor and | |
| | | Straight Time | Overtime | Straight Time | Overtime | Straight Time | Overtime | Straight Time | Overtime | Straight Time | Overtime |
| 66 | Secondary 1/0 Triplex (per conductor, per span) | \$333.82 | \$475.36 | \$333.82 | \$475.36 | \$635.52 | \$839.37 | \$178.07 | \$253.58 | \$813.59 | \$1,092.94 |
| 66A | Secondary 336.4 Triplex/Quadraplex (per conductor, per span) | \$734.45 | \$1,045.86 | \$734.45 | \$1,045.86 | \$974.00 | \$1,285.43 | \$289.36 | \$412.06 | \$1,263.37 | \$1,697.49 |
| 66B | Primary 1/0 ACSR (per conductor, per span) | \$200.29 | \$285.21 | \$200.29 | \$285.21 | \$635.64 | \$839.49 | \$111.32 | \$158.52 | \$746.96 | \$998.01 |
| 66C | Primary 336.4 SAL (conductor, per span) | \$200.29 | \$285.21 | \$200.29 | \$285.21 | \$636.45 | \$840.30 | \$178.07 | \$253.58 | \$814.52 | \$1,093.87 |
| 67 | Single Phase Service (Open Wire/Multiplex to 1/0 Triplex) (each) | | | | | \$318.97 | \$415.76 | \$4.44 | \$6.32 | \$323.40 | \$422.08 |
| 67A | Single Phase Service (Open Wire/Multiplex to 336.4 Triplex/Quad.) | | | | | \$516.41 | \$661.90 | \$4.44 | \$6.32 | \$520.85 | \$668.21 |
| 68 | Reconnect Service (Assoc. with Secondary Replacement) (each) | \$175.37 | \$249.73 | \$175.37 | \$249.73 | | | | | | |
| 69 | Reconnect Streetlight (Assoc. with Secondary Replacement) (each) | \$243.03 | \$346.08 | \$243.03 | \$346.08 | | | | | | |
| 70 | Reconnect Transformer (Assoc. with Secondary Replacement) (each) | \$175.37 | \$249.73 | \$175.37 | \$249.73 | | | | | | |
| 71 | Tree Trim - up to 6" Diameter (each) | DETERMINED BY NATIONAL GRID FORESTRY REVIEW | | | | | | | | | |
| 72 | Tree Trim - Greater than 6" Diameter (each) | | | | | | | | | | |
| * - Performance Rates for poles obtained from the Joint Use Agreement | | | | | | | | | | | |
| M = Miscellaneous | | MISCELLANEOUS ITEMS | | | | | | | | | |
| TRAVEL TIME ADDER | | | | | | | | | | | |
| 73 | Travel/Mobilization Adder | For Special Instances Where Make-Ready Work Requires Travel Beyond Customary Travel - An Added Cost shall be Estimated using the | | | | | | | | | |
| HOURLY RATES | | | | | | | | | | | |
| 74 | Light Traffic Flow -Traffic Control - Flagging (\$/hr.) | \$73.80 | \$107.80 | | | | | | | | |
| 75 | Moderate Traffic Flow -Traffic Control - Flagging (\$/hr.) | \$107.60 | \$157.00 | | | | | | | | |
| 76 | Heavy Traffic Flow -Traffic Control - Flagging (\$/hr.) | \$141.50 | \$206.30 | | | | | | | | |
| OFF-ROAD MULTIPLIER | | | | | | | | | | | |
| 77 | Multiplier for Off-Road Work (Multiplier x Unit Price) | Fringe Benefits and | | | | | | | | | |
| OUTAGE COSTS | | | | | | | | | | | |
| 78 | Costs Related to Labor Associated with Outage Preparation and Execution | Costs are to be Estimated for Each Individual Outage | | | | | | | | | |