

ADVERTISEMENT FOR BIDS

Sealed proposals will be received in the Office of the Procurement Manager, Greenville Utilities Commission, 401 S. Greene Street, Greenville, North Carolina 27834 until 3:00 pm (EST) on June 30, 2022 and immediately thereafter publicly opened and read for the furnishing of Underground and Overhead Electric Distribution Construction Services.

Instructions for submitting bids and complete specifications will be available in the Office of the Procurement Manager, Greenville Utilities Commission, 401 S. Greene Street, Greenville, North Carolina during regular office hours, which are 8:30AM – 5:00PM Monday through Friday.

Greenville Utilities Commission reserves the right to reject any or all bids. Late Bids will not be considered.

Notice to Bidders:

Greenville Utilities Commission is committed to the health and safety of our customers and employees. We are taking the spread of COVID-19 very seriously and continue to monitor the latest Local, State, and Federal guidance.

SECTION I
GENERAL INSTRUCTIONS FOR FORMAL BIDS
RELATED TO UNDERGROUND ELECTRIC DISTRIBUTION
CONSTRUCTION SERVICES

1.0 NOTICE TO BIDDERS

Sealed bids, subject to the conditions made a part hereof, will be received in the Office of the Procurement Manager, Greenville Utilities Commission, 401 S. Greene Street, Greenville, North Carolina 27834 until 3:00 pm (EST) on the day of opening. **Bids submitted in a fax or e-mail in response to this Invitation for Bids will not be acceptable.**

2.0 STANDARD FORMS REQUIRED

Each bidder must submit a proposal on the enclosed bid forms. **The bid must be signed by an authorized official of the firm. Return only the attached Proposal Form. Do not return the Advertisement for Bids, Instructions to Bidders or Specifications.**

3.0 PREPARATION OF BID

Bids must be in sealed envelopes clearly marked on the outside with the name of the bid and the bid opening date and time. Bid shall be addressed to PROCUREMENT MANAGER, GREENVILLE UTILITIES COMMISSION, 401 S. GREENE STREET, GREENVILLE, NORTH CAROLINA 27834.

4.0 TIME FOR OPENING BIDS

Bids will be opened promptly and read at the hour and on the date set forth in the advertisement in the Office of the Procurement Manager, Greenville Utilities Main Office, 401 S. Greene Street, Greenville, North Carolina 27834. Bidders or their authorized agents are invited to be present.

5.0 DEPOSIT

A deposit is **NOT** required for this bid.

6.0 NC SALES TAX

Do **not** include NC sales taxes in bid figure; however, Greenville Utilities Commission (GUC) does pay sales tax. Sales tax should be added to the invoice as a separate item.

7.0 FEDERAL EXCISE TAX

GUC is exempt from Federal Excise Tax and will issue a Federal Exemption Certificate upon request to the successful bidder.

8.0 EXCEPTIONS TO BE CLEARLY STATED

If bid is not in strict accordance with Section II, "Specifications," bidder must list or note all exceptions **on the Request for Proposal Form**, otherwise, it is fully understood that the successful bidder will furnish equipment and/or materials exactly as specified. GUC reserves the right to accept or reject bids with noted minor deviations from specifications and to determine the lowest responsible, responsive bid from the standpoint of quality, performance, and price.

9.0 EVALUATION AND AWARD OF BIDS

GUC reserves the right to reject any and all bids, to waive any and all informalities, and to disregard all nonconforming or conditional bids or counter proposals. In evaluating bids, GUC shall consider whether the bids comply with the prescribed requirements, plus all alternates or options requested. GUC reserves the right to include or exclude any option or alternative in GUC's opinion is in GUC's best interests. If a bid is to be awarded, it will be awarded to the lowest responsible, responsive bidder whose evaluation by GUC indicates that the award will be in GUC's best interests. Only firm prices will be considered for award of this bid.

10.0 PROMPT PAYMENT DISCOUNTS

Bidders are urged to compute all discounts into the price offered. If a prompt payment discount is offered, it may be considered in the award of the contract.

11.0 NUMERICAL ERRORS

In the case of a discrepancy between a unit price and the extension (the unit price multiplied by the number of units); the unit price governs. In the case where numerical bids are stated both in numbers and in words, the words govern.

12.0 BID WITHDRAWAL

A bidder must notify GUC in writing of its request to withdraw a bid within seventy-two (72) hours after the bid opening, not including Saturdays, Sundays, or holidays. In order to justify withdrawal, the bidder must demonstrate that a substantial error exists and that the bid was submitted in good faith.

13.0 MINORITY BUSINESS PARTICIPATION PROGRAM

GUC has adopted an Affirmative Action and Minority and Women Business Enterprise Plan (M/WBE) Program. Firms submitting a proposal are attesting that they also have taken affirmative action to ensure equality of opportunity in all aspects of employment, and to utilize M/WBE suppliers of materials and/or labor.

14.0 DELIVERY TIME

Delivery time is to be stated and will be considered in the evaluation of bids if applicable.

15.0 CONTRACT PERIOD

It is the intent of Greenville Utilities Commission (GUC) to enter into a multi-year contract at the time the contract is awarded by GUC to the successful bidder for a total contract period not to exceed five (5) years. **Prices shall remain fixed during the first year** with option for annual extensions at the same or negotiated unit prices for up to four (4) additional years if market, service conditions and fund(s) availability, so warrant and prove to be in the best interest of GUC.

16.0 CONTACT INFORMATION

Questions: All questions should be received by 5:00 pm on 6/16/2022 regarding this bid request and should be directed to Cleve Haddock, Procurement Manager at (252) 551-1533, haddocgc@guc.com

17.0 TERMS AND CONDITIONS

The attached Terms and Conditions of the Greenville Utilities Commission (GUC) is considered a part of the bid proposal.

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SECTION II
GREENVILLE UTILITIES COMMISSION
SPECIFICATIONS FOR UNDER GROUND ELECTRIC DISTRIBUTION
CONSTRUCTION SERVICES
JUNE 30, 2022

General Description

The Contractor is to supply labor, tools and equipment necessary to constitute a crew capable of independently installing or replacing underground power cable/conduits and associated equipment in residential and commercial developments. Greenville Utilities intends to retain this workforce for the contract year for emergency assistance during situations affecting its service area. Crew makeup, typical job tasks and other specific requirements are outlined in the following paragraphs:

Contractor shall supply two (2), four-person underground construction crews and one (1), three-person underground service crew. Work may consist of but is not limited to the following: Place 15 KV primary cables, secondary cables, conduits, secondary pedestals, pad-mounted transformers, switching equipment, and other facilities typical to URD systems. Contractor is to utilize conventional digging equipment (backhoes and trenchers) to install cables and conduits at an average depth of 3' minimum to 5' maximum. Work will typically be billed on a cost basis. See proposal forms below for underground crew makeup.

Greenville Utilities reserves the right to terminate this contract based on the performance of the crew or the reduction of anticipated workload.

Job Site Safety

Job site activities shall always be conducted in accordance with the North Carolina Occupational Safety and Health Standards, the National Electrical Safety Code, APPA Safety Manual, and the North Carolina Manual on Uniform Traffic Control Devices for Streets and Highways.

Material

Materials are to be supplied by Greenville Utilities (GUC) and are to be picked up by the Contractor at the GUC Operations Center at 701 Utility Way. Materials used for site restoration or repairs for damage caused by the Contractor shall be provided by the Contractor.

Supervision

In order to ensure compliance to Greenville Utilities' Standard Practices, the crew leader will be provided detailed construction plans for each job prior to commencement of work. In addition, the job site will be staked by GUC personnel and visited frequently to monitor progress and assure quality control. The Contractor is responsible to see that 48-hour notice is provided to the Utilities Locating Company (1-800-632-4949) prior to each new assignment. As such, close coordination between the crew leader and GUC Operations personnel will be required.

Existing Facilities

Contractor will be responsible for damages to any utilities or customer-owned facilities caused by its forces. All electric lines in the area, either overhead or underground, are to be considered

energized and treated as such unless grounded and tagged by GUC personnel. All high voltage terminations and connections will be performed by GUC personnel.

Housekeeping

Contractor shall at all times keep the site free of accumulations of waste materials or trash caused by his work force. At the completion of work at each job site, Contractor shall remove all tools and surplus materials and leave site in satisfactory condition.

Contractor's Insurance

The contractor shall submit proof of Comprehensive General Liability Insurance carried in the minimum amount of \$1,000,000, written on an "occurrence" basis. A Broad Form Property Damage Endorsement must be attached to the policy. Automobile Liability Insurance in the minimum amount of \$1,000,000 must be carried and proof of same submitted to Greenville Utilities with the execution of the contract for the procurement of labor. The Provider shall provide and maintain Workers' Compensation Insurance, as required by the laws of North Carolina, as well as employer's liability coverage with minimum limits of \$1,000,000, covering the Provider and all employees who are engaged in any work under the contract. If any work is sublet, the Provider shall require the subcontractor to provide the same coverage for any of his employees engaged in any work under the contract.

Payment

Invoices will be submitted weekly for work done during the previous week.

Work Week

The workweek will consist of 40 hours maximum, to take place during GUC's normal working hours. These hours run from 7:00 a.m. to 5:30 p.m., Monday through Friday excluding holidays as shown on the attached holiday schedule.

Description of Labor

Contractor shall always ensure that he has a sufficient crew in terms of numbers and experience to perform the work completely and safely. A minimum of three workers per crew is required at all times. Crew members shall always maintain a neat appearance and a respectful demeanor to the public. The crew structure shall consist of the following line personnel:

Foreman	Experience in all aspects of underground electric distribution construction including cable and conduit installation, cable pulling, transformer installation and termination, secondary pedestal installation and termination, switch gear installation and termination, and primary switching pedestal installation and termination. Ability to operate proficiently all equipment assigned and associated with crew. Ability to read and interpret construction plans. Certified competent person.
Equipment Operator	Working knowledge of the underground electric distribution construction. Understanding of the principles associated with underground electric distribution systems, including cable and conduit installation, cable pulling, transformer installation and termination, secondary pedestal installation and termination, switch gear installation and termination, and primary switching pedestal installation and termination. Ability to proficiently operate all equipment assigned and associated with crew. Ability to lead crew in the absence of Foreman. Certified competent person.

Semi-skilled Laborer

Basic understanding of underground construction principles specifically digging with backhoes and trenchers, installing cables and conduits, setting equipment bases to grade and level. Ability to learn the operation of equipment assigned and associated with crew.

All personnel shall possess a considerable amount of experience in construction of underground electrical distribution systems. All personnel shall be able to proficiently operate all equipment assigned to the crew. All personnel shall possess a valid current North Carolina Commercial driver's license.

Bids will be evaluated based on the lowest cost plus overhead and equipment rates.

Cost plus overhead and equipment rates shall be used for billing purposes unless determined otherwise on specific case by case basis and previously approved by GUC representative.

Description of Equipment

Equipment needed for daily use is described below. Equipment listed in the proposal sheets below shall be assigned to the corresponding crew for daily immediate use while performing work for GUC. Equipment shall remain available on system while crews are assigned work for GUC.

One ton crew cab with minimum tools and equipment; (maximum age 10 years)

Cable cutter-25" fiberglass handles
Cable cutter-hand ratchet
First aid kit 24 pc
Insulated ratchet 3/8"
Insulated hex bit 1/4" x 3/8"
Insulated hex bit 5/16" x 3/8"
Insulated socket 3/4" x 3/8"
Insulated socket 9/16" x 3/8"
Ladder 16 ft fiberglass
1000 volt multi-meter
PVC saw 18"
Shovel flat tip nylon handle
Soil probe, insulated
Fiberglass elbow puller 6 ft
Traffic cones (7)
Transformer wrench, penta
Manhole hook
Lineman pliers klein 9ne
6 ft folding rule
#2 x 8" Phillips screw driver
5/8" x 3/4" ratchet wrench
Elbow probe torque wrench
10" adjustable wrench

Cable cutter-18" fiberglass handles
Compression tool 5/8 and "D" die 840
Fire extinguisher
Insulated extension 6" x 3'8"
Insulated hex bit 3/8" x 3/8"
Insulated hex bit 7/16" x 3/8"
Insulated socket 1/2" x 3/8"
Insulated socket 5/8" x 3/8"
Phase rotation meter
20 kv rubber gloves and protector
Shovel round tip nylon handle
Sledge hammer 5 lb
Fiberglass shot-gun stick universal 8 ft
Stripper 4x4 1/0, 2/0, 4/0, 350
Traffic vest(2)
Voltage tester, (tic tracer)
Tool bag
Cannel lock pliers 12"
#2 x 8" flat blade screw driver
1/2" x 9/16" ratchet wrench
Skinning knife
8" adjustable wrench
2 lb hammer

Digger Derrick: 20,000 lb. 45 ft. sheave (Maximum age 10 years)

Cable cutter-25" fiberglass handles	Cable cutter-18" fiberglass handles
Cable cutter-hand ratchet	Compression tool 5/8 and "D" die 840
First aid kit 24 pc	Fire extinguisher
Insulated ratchet 3/8"	Insulated extension 6" x 3'8"
Insulated hex bit 1/4" x 3/8"	Insulated hex bit 3/8" x 3/8"
Insulated hex bit 5/16" x 3/8"	Insulated hex bit 7/16" x 3/8"
Insulated socket 3/4" x 3/8"	Insulated socket 1/2" x 3/8"
Insulated socket 9/16" x 3/8"	Insulated socket 5/8" x 3/8"
Ladder 16 ft fiberglass	Phase rotation meter
1000 volt multi-meter	20 kv rubber gloves and protector
PVC saw 18"	Shovel round tip nylon handle
Shovel flat tip nylon handle	Sledge hammer 5 lb
Soil probe, insulated	Fiberglass shot-gun stick universal 8 ft
Fiberglass elbow puller 6 ft	Stripper 4x4 1/0, 2/0, 4/0, 350
Traffic cones (10)	Traffic vest(2)
Transformer wrench, penta	Voltage tester, (tic tracer)
Manhole hook	Tool bag
Lineman pliers klein 9ne	Cannel lock pliers 12"
6 ft folding rule	#2 x 8" flat blade screw driver
#2 x 8" Phillips screw driver	1/2" x 9/16" ratchet wrench
5/8" x 3/4" ratchet wrench	Skinning knife
Elbow probe torque wrench	8" adjustable wrench
10" adjustable wrench	2 lb hammer
Digging bar 1 1'8" x 8'	Ground rod adapter 5/8"
Hydraulic hammer 45 lb	Hydraulic tamp jumping jack
Post hole digger 8'	Cable spiking tool
Rake 18' nylon handle	Reel thing (swivel) RT40
Sign 48" utility work ahead (2)	Sling, eye-eye 1' x 3'
Sling, transformer 1/2" 2-leg	Sling, transformer, 3/4" x 4 leg
Pulling block, 2" x 8" 5000lb (2)	6- 36"x36" rubber blankets & Pins

Backhoe or Mini Excavator: Backhoe with four-wheel drive with minimum digging depth of 10 feet. A trailer for transport of a backhoe. (Maximum age 10 years) or Mini Excavator 30HP, front backfill blade, digging depth 8'. A trailer for transport of mini excavator

Trencher: Trencher capable of trenching 6" wide x 48" deep with backhoe attachment. A trailer for transport of a trencher. (Maximum age 10 years)

Cable reel trailer: Single reel cable trailer 4000 lb /reel

Additional Equipment: Additional equipment shall be available for use on GUC's system within seven days' notice. Refer to Appendix A for additional equipment pricing.

Wet Saw: Capable of cutting 7" deep concrete/asphalt

Core Drill: Capable of cutting 7" hole 12" deep concrete

Trench Box: Adjustable width 8'x12'

Compact backhoe: Compact backhoe 30HP, Front Loader, 4WD, Digging Depth of 7'.

Cable reel trailer: Three-reel cable trailer 4000 lb /reel

Duct Dog/UG Wire Puller: 7500lb pulling capacity with 2000' appropriately sized steel wire rope.

SUBMIT BIDS ON ATTACHED PROPOSAL FORM(S)

RETURN ALL FORM(S)

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SECTION III

GREENVILLE UTILITIES COMMISSION

SPECIFICATIONS FOR OVERHEAD ELECTRIC CONSTRUCTION CREW

JUNE 30, 2022

General Description

The intent of these specifications is to describe a crew structure, tools, and equipment specifically designed to accommodate all types of overhead electric distribution construction activities. The labor force proposed, and the equipment requested shall meet the minimum requirements as set forth in these specifications. Greenville Utilities intends to retain this workforce for the contract year for emergency assistance during situations affecting its service area. Crew makeup, typical job tasks and other specific requirements are outlined in the following paragraphs:

Contractor shall supply one (1) five-person overhead construction crew, one (1) two-person light crew, and one (1) **OPTIONAL** three-person overhead service/light crew. Work may consist of but is not limited to the following: distribution pole replacement, transfer existing OH facilities, new pole installs, install new OH facilities, OH residential and commercial service installs, and area/streetlight installs and repairs. Work will typically be billed on a cost basis. See proposal forms below for underground crew makeup.

Greenville Utilities reserves the right to terminate this contract based on the performance of the crew or the reduction of anticipated workload.

Job Site Safety

Job site activities shall always be conducted in accordance with the North Carolina Occupational Safety and Health Standards, the National Electrical Safety Code, APPA Safety Manual, and the North Carolina Manual on Uniform Traffic Control Devices for Streets and Highways.

Material

Materials are to be supplied by Greenville Utilities (GUC) and are to be picked up by the Contractor at the GUC Operations Center at 701 Utility Way. Materials used for site restoration or repairs for damage caused by the Contractor shall be provided by the Contractor.

Supervision

To ensure compliance to Greenville Utilities' Standard Practices, the crew leader will be provided detailed construction plans for each job prior to commencement of work. In addition, the job site will be staked by GUC personnel and visited frequently to monitor progress and assure quality control. The Contractor is responsible to see that 48 hours' notice is provided to the Utilities Locating Company (1-800-632-4949) prior to each new assignment. As such, close coordination between the crew leader and GUC Operations personnel will be required.

Existing Facilities

Contractor will be responsible for damages to any utilities or customer-owned facilities caused by its forces. All electric lines in the area, either overhead or underground, are to be considered energized and treated as such unless grounded and tagged by GUC personnel. All high voltage terminations and connections will be performed by GUC personnel.

Housekeeping

Contractor shall at all times keep the site free of accumulations of waste materials or trash caused by his work force. At the completion of work at each job site, Contractor shall remove all tools and surplus materials and leave site in satisfactory condition.

Contractor's Insurance

The contractor shall submit proof of Comprehensive General Liability Insurance carried in the minimum amount of \$1,000,000, written on an "occurrence" basis. A Broad Form Property Damage Endorsement must be attached to the policy. Automobile Liability Insurance in the minimum amount of \$1,000,000 must be carried and proof of same submitted to Greenville Utilities with the execution of the contract for the procurement of labor. The Provider shall provide and maintain Workers' Compensation Insurance, as required by the laws of North Carolina, as well as employer's liability coverage with minimum limits of \$1,000,000, covering the Provider and all employees who are engaged in any work under the contract. If any work is sublet, the Provider shall require the subcontractor to provide the same coverage for any of his employees engaged in any work under the contract.

Payment

Invoices will be submitted weekly for work done during the previous week.

Work Week

The workweek will consist of 40 hours maximum, to take place during GUC's normal working hours. These hours run from 7:00 a.m. to 5:30 p.m., Monday through Friday excluding holidays as shown on the attached holiday schedule.

Description of Labor

The crew structure shall consist of the following line personnel:

Line Crew Leader:	Under general supervision, directs and performs supervisory and skilled work at the journeyman lineman level. Leads and directs the work of a line crew in all phases of overhead electrical line work.
First Class Lineman:	Under general supervision, performs skilled work at the journeyman level in construction and maintenance of electric distribution lines.
Second Class Lineman:	Under direct supervision, performs skilled work at the first class lineman level. Work is restricted to primary voltage at 7200 volts or less without supervision of a first class lineman.
Third Class Lineman:	Under direct supervision, performs semi-skilled work related to electric power line construction. Work is restricted to secondary voltage performed from bucket or pole.
Line Truck Operator:	Operates line truck while setting and removing poles in or around energized lines. Supports activities of upper-class lineman on ground.

All personnel shall possess a considerable amount of experience in construction of overhead electrical distribution systems. All personnel shall be able to proficiently operate

all equipment assigned to the crew. All personnel shall possess a valid current North Carolina Commercial driver's license.

Bids will be evaluated based on the lowest cost plus overhead and equipment rates.

Cost plus overhead and equipment rates shall be used for billing purposes unless determined otherwise on specific case by case basis and previously approved by GUC representative.

Description of Equipment

Equipment needed for daily use is described below. Equipment listed in the proposal sheets below shall be assigned to the corresponding crew for daily immediate use while performing work for GUC. Equipment shall remain available on system while crews are assigned work for GUC.

Bucket Truck: Bucket truck shall be less than 10 years old. It shall be an Altec AA55E, with two-man bucket and material handling package or equivalent. The unit provided shall be in good working order and at a minimum be equipped with the following tools and equipment:

<u>Quantity</u>	<u>Item</u>
6	36" x 36" rubber blankets
16	6" connector type rubber hoses
18	blanket pins
2	canvas utility buckets
2	#1 insulated bolt cutters
6	2/0 cu x 12' mechanical jumpers
10	DOT approved traffic cones
4	DOT approved warning signs
1	fiberglass "shot gun stick"
1	fiberglass finger stick
1	600V volt meter
1	phase rotation meter
1	35 kV phasing stick
1	hydraulic impact drill
2	3/4-ton chain hoist
4	1-ton belt hoist
8	#6-2/0 conductor grips
<u>Quantity</u>	<u>Item</u>
8	4/0-795 conductor grips
2	hand lines
1	20' extension ladder
1	compression tool with die "O", "D", "5/8", "840"
1	compression tool XPJ
1	12A hydraulic dynapress
1	large ampact tool
10	6" distribution stringing blocks
2	sets of standard lineman's tools
1	hydraulic impact wrench
2	3/8" Guy Grips

Digger Derrick: Line truck shall be less than 10 years old. It shall be an Altec DC45, or equivalent. The unit provided shall be in good working order and at a minimum equipped with the following tools and equipment:

<u>Quantity</u>	<u>Item</u>
1	20,000 lb. front winch
2	canvas utility buckets
2	#1 insulated bolt cutters
4	2/0 cu x 12' mechanical jumpers
10	DOT approved traffic cones
4	DOT approved warning signs
1	fiberglass finger stick
1	600V volt meter
1	8' digging bar
2	5' shovels
1	10' spoons
1	10" spade
1	hydraulic tamp
1	45 lb. hydraulic hammer/5/8" ground rod adapter
1	anchor attachment (No wrench & 1.5" square)
1	set of slack blocks 4"
1	hydraulic impact drill
2	3/4-ton chain hoist
2	1-ton chain hoist
8	#6-2/0 conductor grips
8	4/0-795 conductor grips

<u>Quantity</u>	<u>Item</u>
4	3/8" guy grips "flats"
1	power take-up reel on hydraulic winch
1	hand line
1	20' extension ladder
2	cant hooks
1	compression tool with die "O", "D", "5/8", "840"
1	compression tool XPJ
10	6" distribution stringing blocks
1	set of standard lineman's tools
10	collar ropes
4	4' slings
1	set of pole claws
1	steel pole sling

Squirt Boom Bucket Truck: Altec AT48 or equivalent.

Crew Cab: Crew cab provided to enable entire crew to be transported in one vehicle. Unit shall be less than 10 years old. Truck shall be in good working order and, at a minimum, be equipped with the following tools and equipment:

<u>Quantity</u>	<u>Item</u>
10	DOT approved traffic cones

1	40' telescopic finger stick with measuring capabilities
1	ratchet & socket set
1	600V volt meter
1	20" chain saw

Pole Trailer: 12,000 lb. GVW

Backyard Machine: Altec DB37 or equivalent with pin on bucket. A trailer for transport of backyard machine.

Plow: Vermeer RTX450 or equivalent. A trailer for transport of plow.

Material Trailer: Small trailer for transport of material.

Additional Equipment: Additional equipment shall be available for use on GUC's system within seven days' notice. Refer to Appendix A for additional equipment pricing.

Bucket Truck: 100' working height

Bucket Truck: 70' working height, wide track mounted

Digger Derrick: 30,000 lb, 60' sheave height

Digger Derrick: 30,000 lb, 60' Sheave height, wide track mounted

Hydraulically operated puller/tensioner: 3,000 lb pulling capacity, 6,000 ft. pulling rope and associated stringing equipment with a minimum of 120 six-inch stringing blocks available for wire pulling.

Mini Excavator: 30HP, front backfill blade, digging depth 8'. A trailer for transport of mini excavator

SUBMIT BIDS ON ATTACHED PROPOSAL FORM(S)

RETURN ALL FORM(S)

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GREENVILLE UTILITIES COMMISSION

PROPOSAL FORM

The undersigned bidder hereby declares that it has carefully examined the enclosed detailed specifications for furnishing GUC with the services listed below. The undersigned bidder further agrees, if this quote is accepted within sixty (60) days from the date of the opening, to furnish any or all of the services upon the quoted prices.

ITEM NO.	ESTIMATED LABOR AND EQUIPMENT	DESCRIPTION	UNIT PRICE	TOTAL COST
		Contractor shall provide labor rates based on actual salaries paid to employees plus their overhead factor.		
		<u>Four Person UG Crew:</u>		
		<u>MIN./HOUR</u> <u>MAX./HOUR</u>		
	1	Foreman	\$ _____	
	1	Operator	\$ _____	
	2	Semi-Skilled Laborer	\$ _____	
		SUBTOTAL MAX./HOUR		\$ _____
		% Overhead Factor: _____		\$ _____
	1	Pickup	\$ _____	
	1	Backhoe/Mini Ex	\$ _____	
	1	Trencher	\$ _____	
	1	Digger Derrick	\$ _____	
		Subtotal Equipment Rates		\$ _____
		(UG) Job Tasks		\$ _____
		GRAND TOTAL:		\$ _____

ITEM NO.	ESTIMATED LABOR AND EQUIPMENT	DESCRIPTION	UNIT PRICE	TOTAL COST
		Contractor shall provide labor rates based on actual salaries paid to employees plus their overhead factor.		
		<u>Three Person UG Service Crew:</u>		
			<u>MIN./HOUR</u>	<u>MAX./HOUR</u>
	1	Foreman	\$ _____	\$ _____
	1	Operator	\$ _____	\$ _____
	1	Semi-Skilled Laborer	\$ _____	\$ _____
		SUBTOTAL MAX./HOUR		\$ _____
		% Overhead Factor: _____		\$ _____
	2	Pickup	\$ _____	
	1	Trencher	\$ _____	
	1	Reel Trailer	\$ _____	
		Subtotal Equipment Rates		\$ _____
		(UG) Job Tasks		\$ _____
		GRAND TOTAL:		\$ _____

ITEM NO.	ESTIMATED LABOR AND EQUIPMENT	DESCRIPTION	UNIT PRICE	TOTAL COST
		Contractor shall provide labor rates based on actual salaries paid to employees plus their overhead factor.		
		<u>Five Person OH Crew:</u>		
		<u>MIN./HOUR</u> <u>MAX./HOUR</u>		
	1	Crew Leader	\$ _____ \$ _____	
	2	1 st Class Lineworker	\$ _____ \$ _____	
	1	2 nd Class Lineworker	\$ _____ \$ _____	
	1	3 rd Class Lineworker	\$ _____ \$ _____	
		SUBTOTAL MAX./HOUR		\$ _____
		% Overhead Factor: _____		\$ _____
	1	Pickup	\$ _____	
	2	Bucket Truck	\$ _____	
	1	Digger Derrick	\$ _____	
	1	Pole Trailer	\$ _____	
		Subtotal Equipment Rates		\$ _____
		(OH) Job Tasks		\$ _____
		GRAND TOTAL:		\$ _____

ITEM NO.	ESTIMATED LABOR AND EQUIPMENT	DESCRIPTION	UNIT PRICE	TOTAL COST																									
		<p>Contractor shall provide labor rates based on actual salaries paid to employees plus their overhead factor.</p> <p><u>Two Person OH Light Crew:</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%; text-align: center;"><u>MIN./HOUR</u></td> <td style="width: 15%; text-align: center;"><u>MAX./HOUR</u></td> <td style="width: 45%;"></td> </tr> <tr> <td style="text-align: center;">1</td> <td>Foreman</td> <td style="text-align: center;">\$ _____</td> <td style="text-align: center;">\$ _____</td> <td></td> </tr> <tr> <td style="text-align: center;">1</td> <td>Semi-Skilled Laborer</td> <td style="text-align: center;">\$ _____</td> <td style="text-align: center;">\$ _____</td> <td></td> </tr> <tr> <td></td> <td></td> <td colspan="2" style="text-align: right;">SUBTOTAL MAX./HOUR</td> <td style="text-align: right;">\$ _____</td> </tr> <tr> <td></td> <td></td> <td colspan="2" style="text-align: right;">% Overhead Factor: _____</td> <td style="text-align: right;">\$ _____</td> </tr> </table>			<u>MIN./HOUR</u>	<u>MAX./HOUR</u>		1	Foreman	\$ _____	\$ _____		1	Semi-Skilled Laborer	\$ _____	\$ _____				SUBTOTAL MAX./HOUR		\$ _____			% Overhead Factor: _____		\$ _____		
		<u>MIN./HOUR</u>	<u>MAX./HOUR</u>																										
1	Foreman	\$ _____	\$ _____																										
1	Semi-Skilled Laborer	\$ _____	\$ _____																										
		SUBTOTAL MAX./HOUR		\$ _____																									
		% Overhead Factor: _____		\$ _____																									
	1	Pickup	\$ _____																										
	1	Squirt Boom	\$ _____																										
	1	Material Trailer	\$ _____																										
		Subtotal Equipment Rates		\$ _____																									
		(OH) Job Tasks		\$ _____																									
		GRAND TOTAL:		\$ _____																									

ITEM NO.	ESTIMATED LABOR AND EQUIPMENT	DESCRIPTION	UNIT PRICE	TOTAL COST
		Contractor shall provide labor rates based on actual salaries paid to employees plus their overhead factor.		
		<u>OPTIONAL Three Person OH Light Crew:</u>		
		<u>MIN./HOUR</u> <u>MAX./HOUR</u>		
	1	Foreman \$ _____ \$ _____		
	1	Operator \$ _____ \$ _____		
	1	Semi-Skilled Laborer \$ _____ \$ _____		
		SUBTOTAL MAX./HOUR		\$ _____
		% Overhead Factor: _____		\$ _____
	1	Pickup	\$ _____	
	1	Digger Derrick	\$ _____	
	1	Backyard Machine	\$ _____	
	1	Plow	\$ _____	
	1	Pole Trailer	\$ _____	
		Subtotal Equipment Rates		\$ _____
		(OH) Job Tasks		\$ _____
		GRAND TOTAL:		\$ _____

Method of Award:

Payment for (UG) Job Tasks shall be rendered as cost plus overhead basis. Estimated hours are **1000 hours**. Bid will be awarded based on the lowest cost of the total maximum hourly rates plus overhead plus the hourly equipment rates.

Estimated hours are based on potential workload and available funding.

Complete and Check All Math: It is the responsibility of the Bidder to supply a total for all items.

Please provide at least three (3) references with contact information:

[Balance of page left blank intentionally]

E-VERIFY LETTER OF COMPLIANCE

1. I have submitted a proposal for contract or desire to enter into a contract with the Greenville Utilities Commission;
2. As part of my duties and responsibilities pursuant to said proposal and/or contract, I affirm that I am aware of and in compliance with the requirements of E-Verify, Article 2 of Chapter 64 of the North Carolina General Statutes, to include (mark which applies):
3. ____ After hiring an employee to work in the United States I verify the work authorization of said employee through E-Verify and retain the record of the verification of work authorization while the employee is employed and for one year thereafter; or
4. ____ I employ less than fifteen (15) employees in the State of North Carolina.
5. As part of my duties and responsibilities pursuant to said proposal and/or contract, I affirm that to the best of my knowledge and subcontractors employed as a part of this proposal and/or contract, are in compliance with the requirements of E-Verify, Article 2 of Chapter 64 of the North Carolina General Statutes, to include (mark which applies):
6. ____ After hiring an employee to work in the United States the subcontractor verifies the work authorization of said employee through E-Verify and retains the record of the verification of work authorization while the employee is employed and for one year thereafter; or
7. ____ Employ less than fifteen (15) employees in the State of North Carolina.
Specify subcontractor: _____

_____ (Company Name)

By: _____ (Typed Name)

_____ (Authorized Signatory)

_____ (Title)

_____ (Date)

It is certified that this proposal is made in good faith and without collusion or connection with any other person bidding on the same above listed items. It is also certified that this proposal is made in good faith and without collusion or connection with any GUC employee(s).

Certified check or cash for \$_____ n/a _____ or bid bond for \$_____ n/a _____ attached.

Firm Name _____ Phone (____) _____

Address _____

City _____ State _____ Zip Code _____

Fax (____) _____ E-Mail _____

Authorized Official _____ Title _____
Typed Name

Signature Date _____

**Three (3) copies of your proposal should be received no later than
June 30, 2022 at 3:00 pm (EST).**

NO BIDS CONSIDERED UNLESS SUBMITTED ON THESE FORM(S)

RETURN THESE FORM(S)

MEMORANDUM

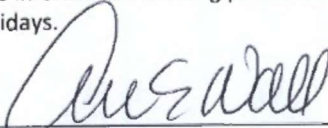
TO: All Employees
DATE: October 19, 2021
SUBJECT: 2022 HOLIDAY SCHEDULE

The following holidays will be observed by the City of Greenville and Greenville Utilities Commission during 2022:

New Year's (2022)	Friday, December 31, 2021
Martin Luther King, Jr. Day	Monday, January 17, 2022
Good Friday	Friday, April 15, 2022
Memorial Day	Monday, May 30, 2022
Juneteenth	Monday, June 20, 2022
Independence Day	Monday, July 4, 2022
Labor Day	Monday, September 5, 2022
Veterans Day	Friday, November 11, 2022
Thanksgiving	Thursday, November 24, 2022 Friday, November 25, 2022
Christmas	Friday, December 23, 2022 Monday, December 26, 2022
New Year's (2023)	Monday, January 2, 2023

For 2022, the floating holiday has been designated as a personal day that eligible employees may use at any time during the year, with supervisory approval.

This information is being provided now in order to allow you to make personal plans for the use of the holidays.



Ann E. Wall
City Manager



Anthony C. Cannon
GUC General Manager/CEO

SECTION IV
SERVICES AGREEMENT

These Terms and Conditions, made and entered into on this the _____ day of _____, 2017 by and between GREENVILLE UTILITIES COMMISSION OF THE CITY OF GREENVILLE, PITT COUNTY, NORTH CAROLINA, with one of its principal offices and places of business at 401 S. Greene Street, Post Office Box 1847, Greenville, Pitt County, North Carolina 27835-1847, hereinafter referred to as "GUC" and _____, a _____ organized and existing under and by virtue of the laws of the State of _____, with one of its principal offices and places of business at _____, hereinafter referred to as "PROVIDER";

1.0 TAXES

No taxes shall be included in any bid prices. GUC is exempt from Federal Excise Tax. GUC is not exempt from North Carolina state sales and use tax or, if applicable, Pitt County sales and use tax. Such taxes shall be shown as a separate item on the invoice.

2.0 INVOICES

It is understood and agreed that orders will be shipped at the established contract prices and quantities in effect on dates orders are placed. Invoicing at variance with this provision may subject the contract to cancellation. Applicable North Carolina sales tax shall be invoiced as a separate line item. All invoices must bear the GUC purchase order number. Mail all invoices to Greenville Utilities Commission, Finance Department, P. O. Box 1847, Greenville, NC 27835-1847.

3.0 PAYMENT TERMS

Payments for equipment, materials, or supplies will be made after the receipt and acceptance of the equipment, materials, or supplies and after submission of a proper invoice. GUC's normal payment policy is thirty (30) days. GUC will not be responsible for any goods delivered without a purchase order having been issued. Payment will be made in U. S. currency only.

4.0 QUANTITIES

Quantities specified are only estimates of GUC's requirements. GUC reserves the right to purchase more or less than the stated quantities at prices indicated in the submitted Proposal Form based on our actual needs.

5.0 AFFIRMATIVE ACTION

The Provider will take affirmative action in complying with all Federal and State requirements concerning fair employment and employment of the handicapped, and concerning the treatment of all employees, without discrimination by reason of race, color, religion, sex, national origin, or physical handicap.

6.0 CONDITION AND PACKAGING

Unless otherwise indicated in the bid, it is understood and agreed that any item offered or shipped shall be new and in first class condition, that all containers shall be new and suitable for storage or shipment, and that prices include standard commercial packaging.

7.0 SAMPLES

Samples of items, if required, must be furnished free of expense to GUC, and if not destroyed, will, upon request, be returned at the Provider's expense. Request for the return of samples must be made at the bid opening, otherwise, the samples will become GUC's property. Each individual sample must be labeled with Provider's name.

8.0 SPECIFICATIONS

Any deviation from specifications must be clearly pointed out, otherwise, it will be considered that items offered are in strict compliance with specifications, and the Provider will be held responsible. Deviations must be explained in detail. **The Provider shall not construe this paragraph as inviting deviation or implying that any deviation will be acceptable.**

9.0 INFORMATION AND DESCRIPTIVE LITERATURE

Providers are to furnish all information requested. Further, as may be specified elsewhere, each Provider must submit with its proposal: cuts, sketches, descriptive literature, and/or complete specifications covering the products offered. Reference to literature submitted with a previous bid does not satisfy this provision. Bids which do not comply with these requirements will be subject to rejection.

10.0 AWARD OF CONTRACT

As directed by statute, qualified bids will be evaluated and acceptance made of the lowest responsible, responsive bid most advantageous to GUC as determined upon consideration of such factors as prices offered, the quality of the article(s) offered, the general reputation and performance capabilities of the Provider, substantial conformity with the specifications and other conditions set forth in the bid, the suitability of the article(s) for the intended use, the related services needed, the date(s) of delivery and performance, and such other factors deemed by GUC to be pertinent or peculiar to the purchase in question.

Acceptance of the order includes acceptance of all terms, conditions, prices, delivery instructions, and specifications as shown on this set of Terms and Conditions and in this order or attached to and made a part of this order.

The conditions of this order cannot be modified except by written amendment in the form of "Amended Purchase Order," which has been approved by GUC's Purchasing Procurement Manager.

In the event of a Provider's failure to deliver or perform as specified, GUC reserves the right to cancel the order or any part thereof, without prejudice to GUC's other rights. The Provider agrees that GUC may return part of or all of any shipment at Provider's expense. GUC may charge the Provider with all reasonable expenses resulting from such failure to deliver or perform.

11.0 MEDIATION/BINDING ARBITRATION

In the event of any dispute between the Parties, the Parties agree to submit any dispute to non-binding mediation before a mutually agreeable Mediator prior to initiating litigation. If the Parties are unable to agree upon a Mediator within thirty (30) days after demand therefore, either Party may petition a Court of competent jurisdiction for the designation of a qualified Mediator for these purposes. Each Party shall bear its own costs and expenses of participating in the mediation (including, without limitation, reasonable attorneys' fees), and each Party shall bear one-half (1/2) of the costs and expenses of the Mediator. Unless otherwise agreed, the Parties will hold the mediation in Greenville, North Carolina. The matters discussed or revealed in the mediation session shall not be disclosed in any subsequent litigation.

In the event the matter is not resolved in mediation, either Party may request arbitration. The parties shall jointly select an Arbitrator, and shall be bound by the decision of the Arbitrator with respect to any dispute between the parties with respect to this Agreement. If the parties are unable to mutually agree upon an Arbitrator, the Parties shall each select an Arbitrator, and the two Arbitrators so selected shall select a third Arbitrator, and the decision of the majority of the Arbitrators shall be conclusive and binding upon the Parties. The Parties at all times agree to equally split the costs of any Arbitrator(s) selected in an effort to resolve the dispute between the Parties. Any party desiring to resolve a dispute under the terms of this Agreement shall notify the other Party in writing, and the Parties shall seek to agree upon a mutually agreed-upon Arbitrator within a period of ten (10) days from the date of such written demand. If the Parties are unable to agree within such ten (10) day period, the Parties shall each select an Arbitrator, and the two (2) Arbitrators so selected shall select a third Arbitrator within fifteen (15) days from the date of the written demand for arbitration, and a decision shall be rendered by the Arbitrator(s) so selected within five (5) days after such Arbitrator(s) is selected.

12.0 GOVERNMENT RESTRICTIONS

In the event any Governmental restrictions may be imposed which would necessitate alteration of the material, quality, workmanship, or performance of the items offered on this bid prior to their delivery, it shall be the responsibility of the successful Provider to notify the GUC Purchasing Procurement Manager, at once, indicating in its letter the specific regulation which required such alterations. GUC reserves the right to accept any such alterations, including any price adjustments occasioned thereby, or, in the sole discretion of GUC, to cancel the contract.

13.0 INSURANCE

13.1 Coverage – During the term of the contract, the Provider at its sole cost and expense shall provide commercial insurance of such type and with the following coverage and limits:

13.1.1 Workers' Compensation – The Provider shall provide and maintain Workers' Compensation Insurance, as required by the laws of North Carolina, as well as employer's liability coverage with minimum limits of \$1,000,000 each accident, covering all Provider's employees who are engaged in any work under the contract. If any work is sublet, the Provider shall require the subcontractor to provide the same coverage for any of its employees engaged in any work under the contract.

13.1.2 General Liability – Commercial Liability Coverage written on an “occurrence” basis in the minimum amount of \$1,000,000 per occurrence.

13.1.3 Automobile – Automobile Liability Insurance, to include coverage for all owned, hired, and non-owned vehicles used in connection with the contract with a minimum combined single limit of \$1,000,000 per accident.

13.2 Requirements - Providing and maintaining adequate insurance coverage is a material obligation of the Provider. All such insurance shall meet all laws of the State of North Carolina. Such insurance coverage shall be obtained from companies that are authorized to provide such coverage and that are authorized to do business in North Carolina by the Commissioner of Insurance. The Provider shall at all times comply with the terms of such insurance policies and all requirements of the insurer under any of such insurance policies, except as they may conflict with existing North Carolina laws or this contract. The limits of coverage under each insurance policy maintained by the Provider shall not be interpreted as limiting the Provider’s liability and obligations under the contract. It is agreed that the coverage as stated shall not be canceled or changed until thirty (30) days after written notice of such termination or alteration has been sent by registered mail to GUC’s Purchasing Procurement Manager.

14.0 PATENTS AND COPYRIGHTS

The Provider shall hold and save GUC, its officers, agents, and employees, harmless from liability of any kind, including costs and expenses, including reasonable attorney fees, on account of any copyrighted articles or any patented or unpatented invention, device or appliance manufactured or used in the performance of this contract.

15.0 PATENT AND COPYRIGHT INDEMNITY

The Provider will defend or settle, at its own expense, any action brought against GUC to the extent that it is based on a claim that the product(s) provided pursuant to this agreement infringe any U.S. copyright or patent; and will pay those costs, damages, and attorney fees finally awarded against GUC in any such action attributable to any such claim, but such defense, settlements, and payments are conditioned on the following: (1) that Provider shall be notified

promptly in writing by GUC of any such claim; (2) that Provider shall have sole control of the defense of any action on such claim and of all negotiations for its settlement or compromise; (3) that GUC shall cooperate with Provider in a reasonable way to facilitate the settlement of defense of such claim; (4) that such claim does not arise from GUC modifications not authorized by the Provider or from the use of combination of products provided by the Provider with products provided by GUC or by others; and (5) should such product(s) become, or in the Provider’s opinion likely to become, the subject of such claim of infringement, then GUC shall permit Provider, at Provider’s option and expense, either to procure for GUC the right to continue using the product(s), or replace or modify the same so that it becomes non-infringing and performs in a substantially similar manner to the original product.

16.0 EXCEPTIONS

All proposals are subject to the terms and conditions outlined herein. All responses will be controlled by such terms and conditions and the submission of other terms and conditions, price catalogs, and other documents as part of a Provider's response will be waived and have no effect on this Request for Proposal or any other contract that may be awarded resulting from this solicitation. The submission of any other terms and conditions by a Provider may be grounds for rejection of the Provider's proposal. The Provider specifically agrees to the terms and conditions set forth in this set of Terms and Conditions by affixing its name on the signatory page contained herein.

17.0 CONFIDENTIAL INFORMATION

Except as provided by statute and rule of law, GUC will keep trade secrets which the Provider does not wish disclosed confidential. Each page shall be identified in boldface at the top and bottom as "CONFIDENTIAL" by the Provider. Cost information shall not be deemed confidential. The determination of whether a matter is confidential will be determined by North Carolina law.

18.0 ASSIGNMENT

No assignment of the Provider's obligations or the Provider's right to receive payment hereunder shall be permitted without the express written consent of GUC, provided however, upon written request approved by the GUC Purchasing Procurement Manager, solely as a convenience to the Provider, GUC may:

- Forward the Provider's payment check directly to any person or entity designated by the Provider, and
- Include any person or entity designated by Provider as a joint payee on the Provider's payment check.
- In no event shall such approval and action obligate GUC to anyone other than the Provider, and the Provider shall remain responsible for fulfillment of all contract obligations.

19.0 ACCESS TO PERSON AND RECORDS

GUC shall have reasonable access to persons and records of Provider as a result of all contracts entered into by GUC.

20.0 INSPECTION AT BIDDER'S SITE

GUC reserves the right to inspect, at a reasonable time, the item, plant, or other facilities of a prospective Provider prior to contract award and during the contract term as necessary for GUC's determination that such item, plant, or other facilities conform with the specifications/requirements and are adequate and suitable for the proper and effective performance of the contract. Provider may limit GUC's access to restricted areas.

21.0 AVAILABILITY OF FUNDS

Any and all payments of compensation of this specific transaction and any continuation or any renewal or extension are dependent upon and subject to the allocation of GUC funds for the purpose set forth in this Agreement.

22.0 GOVERNING LAWS

All contracts, transactions, agreements, etc., are made under and shall be governed by and construed in accordance with the laws of the State of North Carolina.

23.0 ADMINISTRATIVE CODE

Bids, proposals, and awards are subject to applicable provisions of the North Carolina Administrative Code and General Statutes and Laws of the State of North Carolina.

24.0 EXECUTION

In the discretion of GUC, failure of a duly authorized official of Provider to sign the Signatory Page may render the bid invalid.

25.0 CLARIFICATIONS/INTERPRETATIONS

Any and all questions regarding these Terms and Conditions must be addressed to the GUC Purchasing Procurement Manager. Do not contact the user directly. **These Terms and Conditions are a complete statement of the parties' agreement and may only be modified in writing signed by Provider and the GUC Purchasing Procurement Manager.**

26.0 SITUS

The place of all contracts, transactions, agreements, their situs and forum, shall be North Carolina, where all matters, whether in contract or tort, relating to the validity, construction, interpretation, and enforcement shall be determined.

27.0 TERMINATION OF AGREEMENT

GUC or Provider may terminate this Agreement for just cause at any time. Provider will be paid for all time and expenses incurred as of the termination date. Termination for just cause by either party shall be by certified letter and shall be effective thirty (30) days after signed and acknowledged receipt of said letter. Just cause shall be based on reasonable grounds, and there must be a fair and honest cause or reason for such action. The causes for termination, include, but are not limited to: (1) Provider's persistent failure to perform in accordance with the Terms and Conditions, (2) Provider's disregard of laws and regulations related to this transaction, and/or (3) Provider's substantial violation of the provisions of the Terms and Conditions.

28.0 DELIVERY

Shipments will be made only upon releases from a purchase order issued by GUC in accordance with GUC's current needs.

Time is of the essence with respect to all deliveries under this Agreement.

Delivery of all equipment, materials, or supplies shall be made Free on Board (FOB) GUC Warehouse, 701 Utility Way, Greenville, North Carolina 27834, unless otherwise specified. The agreed price for such equipment, materials, or supplies shall include all costs of delivery and ownership, and risks of loss shall not be transferred from Provider to GUC until express written acceptance of delivery and inspection by GUC. Delivery hours are between 8:00 AM and 4:30 PM Monday-Friday only. **GUC's purchase order number is to be shown on the packing slip or any related documents.** GUC reserves the right to refuse or return any delivery with no purchase order number or which is damaged. GUC will not be charged a restocking fee for any delivery which is refused or returned.

29.0 INDEMNITY PROVISION

Provider agrees to indemnify and save GREENVILLE UTILITIES COMMISSION of the City of Greenville, Pitt County, North Carolina, and the City of Greenville, North Carolina, its co-owners, joint venturers, agents, employees, and insurance carriers harmless from any and all losses, claims, actions, costs, expenses including reasonable attorney fees, judgments, subrogations, or other damages resulting from injury to any person (including injury resulting in death), or damage (including loss or destruction) to property of whatsoever nature of any person arising out of or incident to the performance of the terms of this Contract by Provider, including, but not limited to, Provider's employees, agents, subcontractors, and others designated by Provider to perform work or services in, about, or attendant to, the work and services under the terms of this Contract. Provider shall not be held responsible for any losses, expenses, claims, subrogations, actions, costs, judgments, or other damages, directly, solely, and proximately caused by the negligence of Greenville Utilities Commission of the City of Greenville, Pitt County, North Carolina. Insurance covering this indemnity agreement by the Provider in favor of Greenville Utilities Commission of the City of Greenville, Pitt County, North Carolina, and the City of Greenville, North Carolina, shall be provided by Provider.

30.0 FORCE MAJEURE

Neither party shall be considered in default in the performance of its obligations hereunder to the extent that the performance of any such obligation is prevented or delayed by any cause, existing or future, which is beyond the reasonable control of such party. In any such event of force majeure, the parties shall advise each other of such event, and the parties shall negotiate an equitable adjustment to their respective obligations under this Agreement.

31.0 WARRANTY(IES)

The Provider hereby includes all warranties, whether expressed or implied, including, but not limited to, the Implied Warranty of Merchantability and the Implied Warranty of Fitness for a Particular Purpose.

32.0 INTEGRATED CONTRACT

These Terms and Conditions, Instructions to Bidders, Specifications, and the selected Provider's bid represents the entire contract between the Parties. No verbal or other written agreement(s) shall be held to vary the provisions of this Agreement.

33.0 CONTRACT PROVISIONS

Each of the provisions of these Terms and Conditions shall apply to the full extent permitted by law, and the invalidity in whole or in part of any provision shall not affect the remainder of such provision or any other provisions.

34.0 E-VERIFY

E-Verify - I understand that E-Verify is the federal E-Verify program operated by the United States Department of Homeland Security and other federal agencies, or any successor or equivalent program used to verify the work authorization of newly hired employees pursuant to federal law in accordance with NCGS §64-25 et seq. I am aware of and in compliance with the requirements of E-Verify and Article 2 of Chapter 64 of the North Carolina General Statutes. To the best of my knowledge, any subcontractors employed by me as a part of this contract are in compliance with the requirements of E-Verify and Article 2 of Chapter 64 of the North Carolina General Statutes.

35.0 IRAN DIVESTMENT ACT CERTIFICATION

By acceptance of this purchase order, Vendor/Contractor certifies that, as of the date of the purchase order or contract, it is not on the Final Divestment List as created by the State Treasurer pursuant to N.C.G.S. § 143-6A-4. In compliance with the requirements of the Iran Divestment Act and N.C.G.S. § 143C-6A-5(b), Vendor/Contractor shall not utilize in the performance of the contract any subcontractor that is identified on the Final Divestment List.

36.0 NOTICES

Notices to the Parties should be sent to the names and addresses specified below:

Cleve Haddock, CLGPO
Procurement Manager
Greenville Utilities Commission
P.O. Box 1847
Greenville, NC 27835-1847

Vendor Specified on Page 1 of Section III when awarded.

[Balance of page left blank intentionally]

GREENVILLE UTILITIES COMMISSION

By: _____
Anthony C. Cannon

Title: General Manager/CEO
(Authorized Signatory)

Date: _____

Attest: _____

Name (Print): Amy Wade

Title: Executive Secretary

Date: _____

(OFFICIAL SEAL)

COMPANY NAME:

By: _____

Name (Print): _____

Title: _____
(Authorized Signatory)

Date: _____

Attest: _____

Name (Print): _____

Title: Corporate Secretary

Date: _____

(CORP. SEAL)

APPROVED AS TO FORM AND LEGAL CONTENT:

By: _____
Phillip R. Dixon

Title: General Counsel

Date: _____

Appendix A

Additional Equipment Pricing

PRICING NOT CONSIDERED FOR THE BID EVALUATION

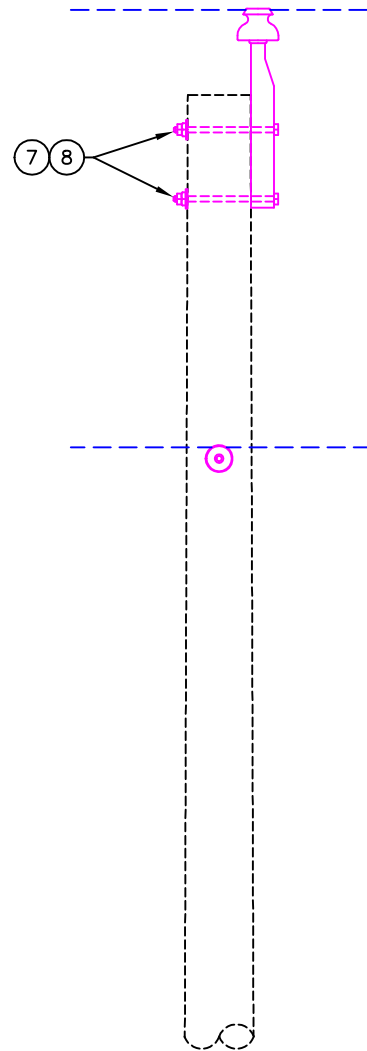
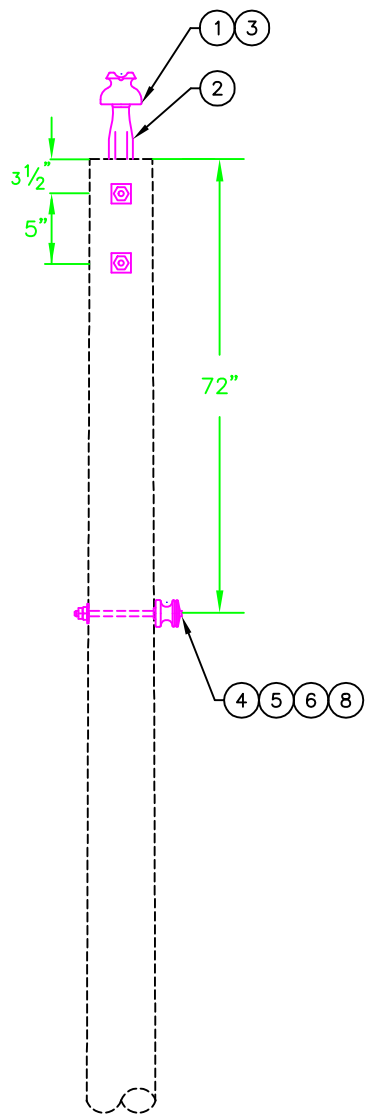
PLEASE NOTE: These prices will not be considered for the bid evaluation; however, prices must be submitted for future reference.

Equipment	\$/Hr
Wet Saw	\$
Core Drill	\$
Trench Box	\$
Compact Backhoe	\$
Cable Reel Trailer	\$
Duct Dog/UG Wire Puller	\$
100' Bucket Truck	\$
70' Track Mounted Bucket Truck	\$
30,000 lb Digger Derrick	\$
30,000 lb Track Mounted Digger Derrick	\$
Puller/Tensioner	\$
Mini Excavator	\$

Appendix B


UG and OH Distribution Drawings

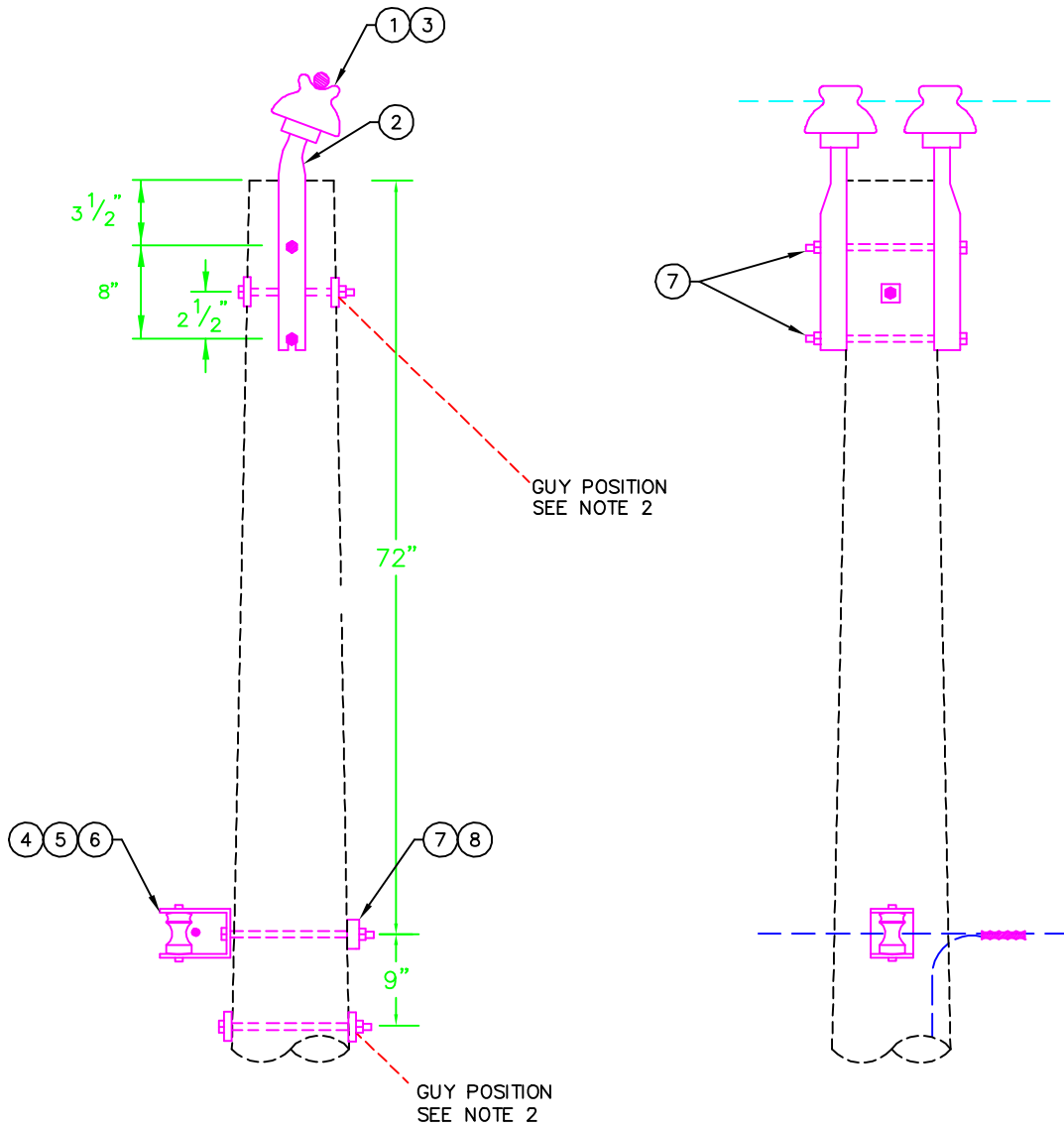
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NOTES:


- 1) SEE DRAWINGS DN-GG AND DM-9 FOR INFORMATION AND MATERIALS RELATED TO GROUNDING.

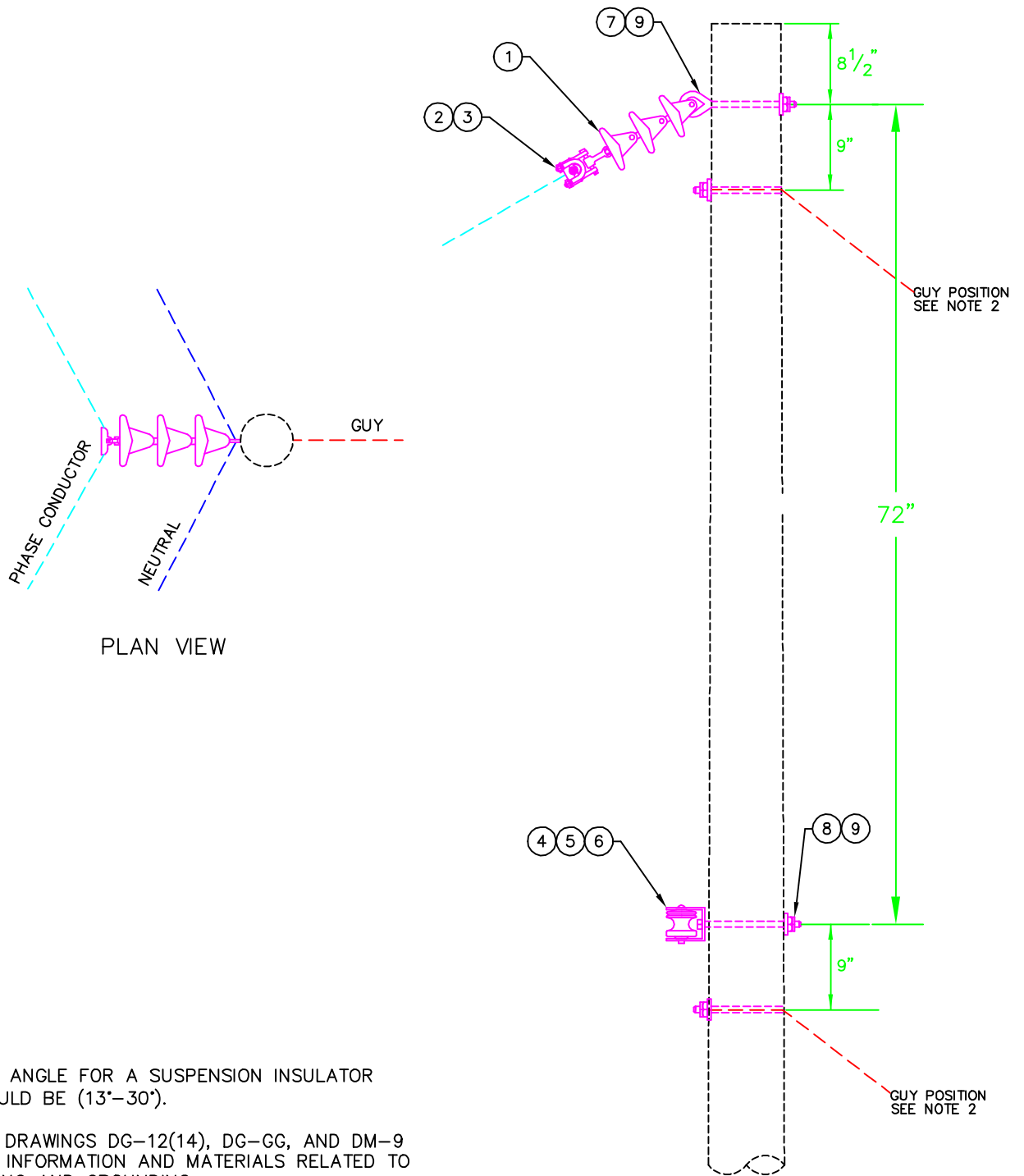
DWG REF	QTY	LIST OF MATERIALS		GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA					
		DESCRIPTION	STOCK #	7.2KV PRIMARY, SINGLE PHASE TANGENT, SINGLE PIN/POST					
1	1	INSULATORS, 15 kV PIN TYPE	203710		DWN.	JLS	DATE:	08/21/19	DWG. NO. A1
2	1	PIN, 18" POLE TOP	203430		CKD.	KW	APPD.		
3	1	PREFORMS, 1/0 WRAP TIE	203590		SCALE:	NONE			
4	1	INSULATORS, SPOOL "J-151"	208280		DATE	REVISION	DATE	REVISION	
5	1	BOLTS, 5/8" x 12" SPOOL	202000						
6	1	PREFORMS, 1/0 SPOOL TIE	203650						
7	2	BOLTS, 5/8" x 12"	202070						
8	3	WASHERS, 2 1/4" SQUARE	204440						



NOTES:


- 1) LINE ANGLE FOR A DOUBLE PIN INSULATOR SHOULD BE (1°-12°).
- 2) SEE DRAWINGS DG-12(14), DG-GG, AND DM-9 FOR INFORMATION AND MATERIALS RELATED TO GUYING AND GROUNDING.

DWG REF	QTY	LIST OF MATERIALS		GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA			
		DESCRIPTION	STOCK #	 7.2KV PRIMARY, SINGLE PHASE SMALL ANGLE, DOUBLE PIN OR POST			
1	2	INSULATORS, 15 kV PIN TYPE	203710				
2	2	PIN, ANGLE POLE TOP	206000	APPD.			
3	1	PREFORMS, 1/0 DOUBLE SUPPORT	203580				
4	1	INSULATORS, SPOOL "J-151"	208280				
5	1	CLEVIS, 1342	208290				
6	1	PREFORMS, 1/0 SPOOL TIE	203650				
7	3	BOLTS, 5/8" x 12"	202070				
8	1	WASHERS, 3 X 3 CURVED	204450				

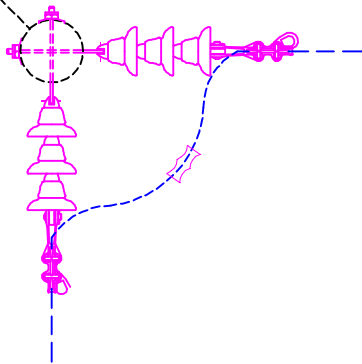


NOTES:

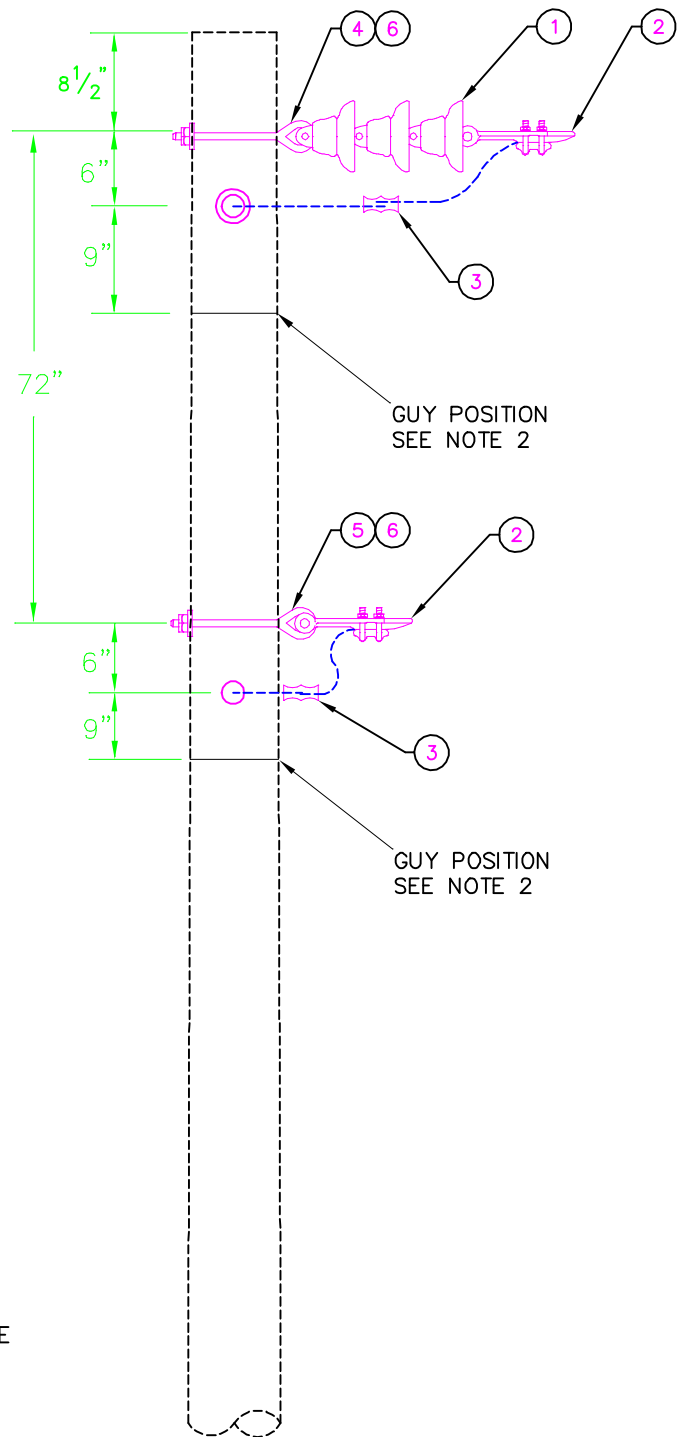
- 1) LINE ANGLE FOR A SUSPENSION INSULATOR SHOULD BE (13°-30°).
- 2) SEE DRAWINGS DG-12(14), DG-GG, AND DM-9 FOR INFORMATION AND MATERIALS RELATED TO GUYING AND GROUNDING.

DWG REF	QTY	LIST OF MATERIALS		GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA					
		DESCRIPTION	STOCK #	7.2KV PRIMARY, SINGLE PHASE LARGE ANGLE, SUSPENSION INSULATOR					
1	1	INSULATORS, POLYMER DEAD END BELLS	206920		DWN. JLS		DATE: 08/21/2019	DWG. NO. A3	
2	1	CLAMPS, 1/0 SUSPENSION	202420		CKD. KW		APPD.		
3	1	RODS, 1/0 ARMOR	201960		SCALE: NONE				
4	1	INSULATORS, SPOOL "J-151"	208280		DATE	REVISION	DATE		REVISION
5	1	CLEVIS, 1342	208290						
6	1	PREFORMS, 1/0 SPOOL TIE	203650						
7	1	BOLTS, 5/8" x 10" EYE	202280						
8	1	BOLTS, 5/8" x 12"	202070						
9	2	WASHERS, 3 X 3 CURVED	204450						

GUY POSITION




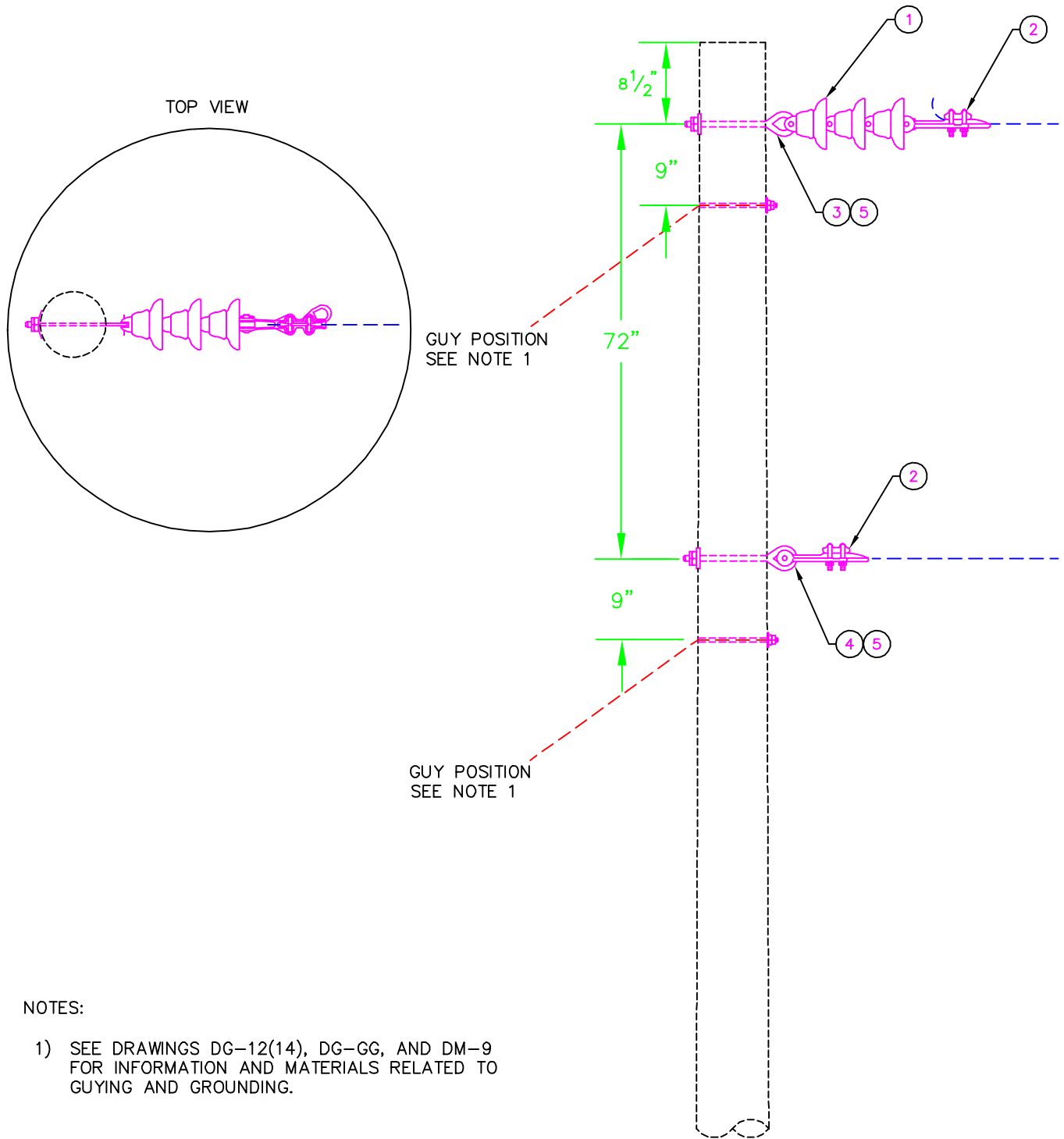
PLAN VIEW



NOTES:


- 1) LINE ANGLE FOR A DOUBLE DEADEND SHOULD BE GREATER THAN 30°.
- 2) SEE DRAWINGS DG-12(14), DG-GG, AND DM-9 FOR INFORMATION AND MATERIALS RELATED TO GUYING AND GROUNDING.

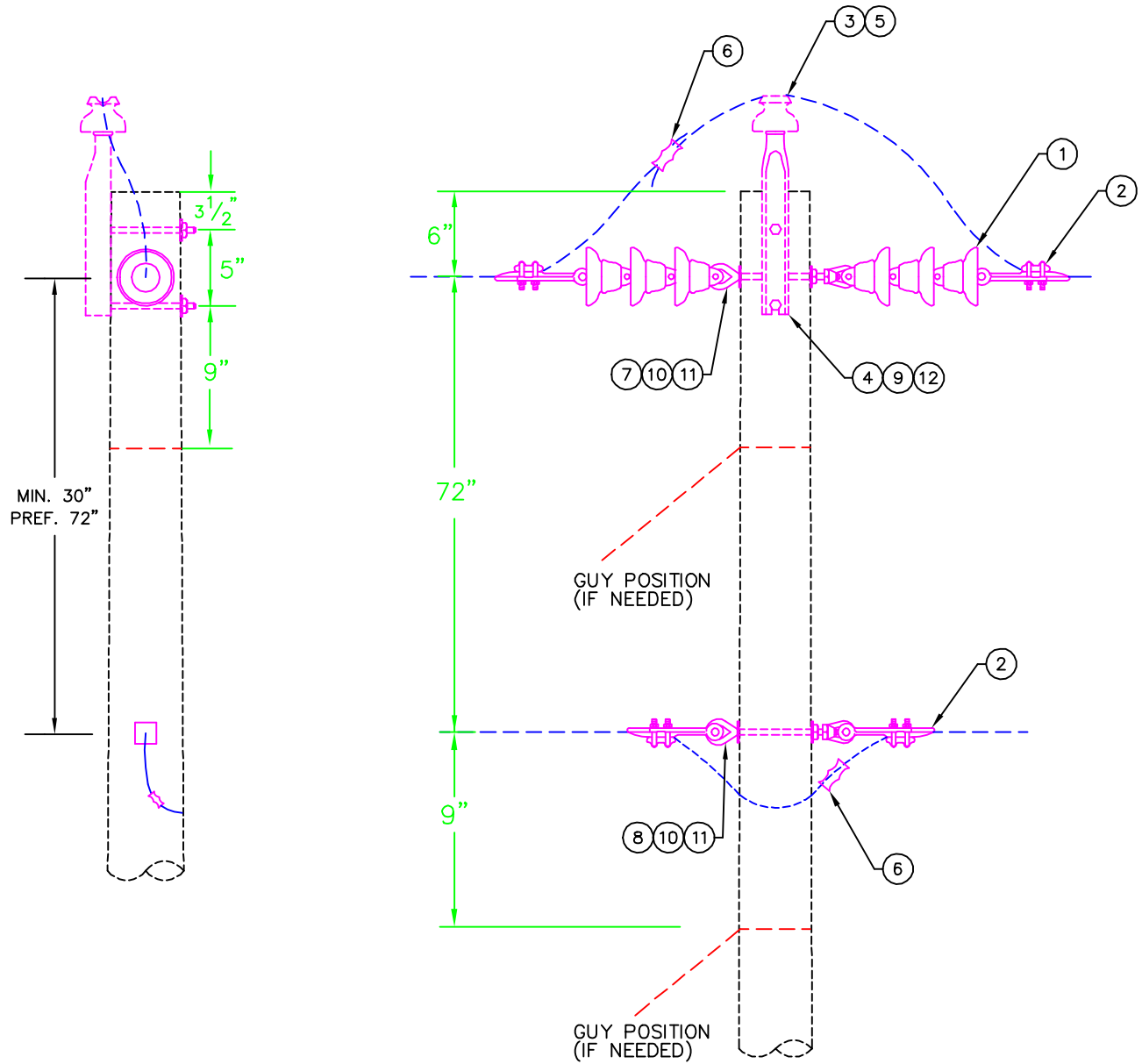
DWG REF	QTY	LIST OF MATERIALS		GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA				
		DESCRIPTION	STOCK #	 7.2KV PRIMARY, SINGLE PHASE LARGE ANGLE, DOUBLE DEADEND SUSPENSION				
1	2	INSULATORS, POLYMER DEAD END BELLS	206920					DWN.
2	4	SHOE, #6 - 1/0 DEAD END	207570	CKD.	KW	APPD.		
3	2	SQUEEZONS, #4	203010	SCALE: NONE				
4	2	BOLTS, 5/8" x 10" EYE	202280	DATE	REVISION	DATE	REVISION	
5	2	BOLTS, 5/8" x 12" EYE	202290					
6	4	WASHERS, 3 X 3 CURVED	204450					



NOTES:

- 1) SEE DRAWINGS DG-12(14), DG-GG, AND DM-9 FOR INFORMATION AND MATERIALS RELATED TO GUYING AND GROUNDING.

DWG REF	QTY	LIST OF MATERIALS		GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA			
		DESCRIPTION	STOCK #	 7.2KV PRIMARY, SINGLE PHASE SINGLE DEADEND (TAP), SUSPENSION			
1	1	INSULATORS, POLYMER DEAD END BELLS	206920				
2	2	SHOE, #6 - 1/0 DEAD END	207570	APPD.			
3	1	BOLTS, 5/8" x 10" EYE	202280				
4	1	BOLTS, 5/8" x 12" EYE	202290				
5	2	WASHERS, 3 X 3 CURVED	204450				



NOTES:

- 1) SEE DRAWINGS DG-12(14), DG-GG, AND DM-9 FOR INFORMATION AND MATERIALS RELATED TO GUYING AND GROUNDING.

DWG REF	QTY	LIST OF MATERIALS	
		DESCRIPTION	STOCK #
1	2	INSULATORS, POLYMER DEAD END BELLS	206920
2	4	SHOE, #6 - 1/0 DEAD END	207570
3	1	INSULATORS, 15 kV PIN TYPE	203710
4	1	PIN, 18" POLE TOP	203430
5	1	PREFORMS, 1/0 WRAP TIE	203590
6	2	SQUEEZONS, #4	203010
7	1	BOLTS, 5/8" x 10" EYE	202280
8	1	BOLTS, 5/8" x 12" EYE	202290
9	2	BOLTS, 5/8" x 12"	202070
10	2	NUTS, 5/8" EYE	204420
11	2	WASHERS, 3 X 3 CURVED	204450
12	2	2 1/4" SQUARE WASHER	204440

GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA

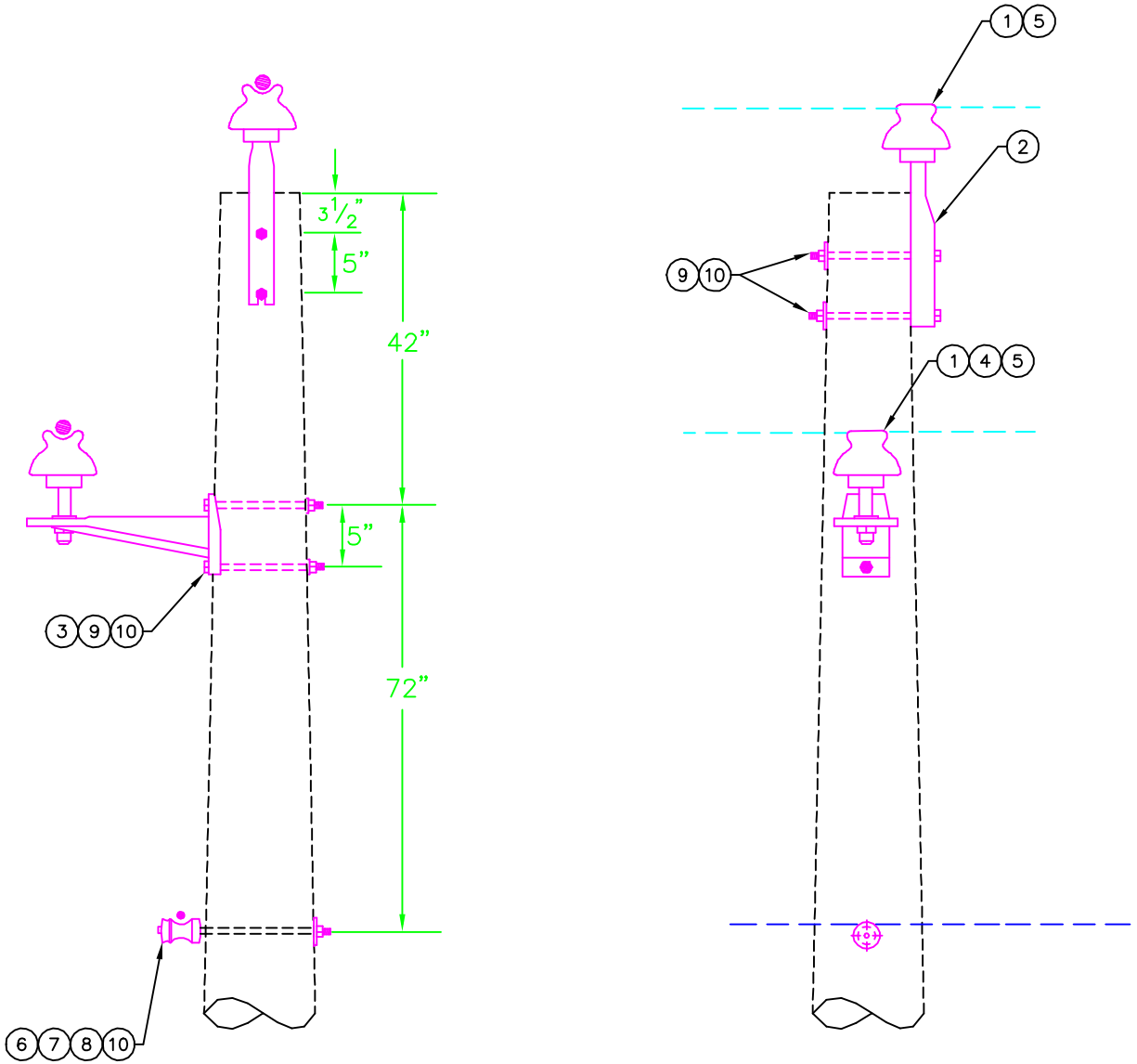


7.2KV PRIMARY, SINGLE PHASE
TANGENT, DOUBLE DEADEND SUSPENSION

DWN.	JLS	DATE: 08/22/2019	
CKD.	KW	APPD.	
SCALE: NONE			
DATE	REVISION	DATE	REVISION


DWG. NO.

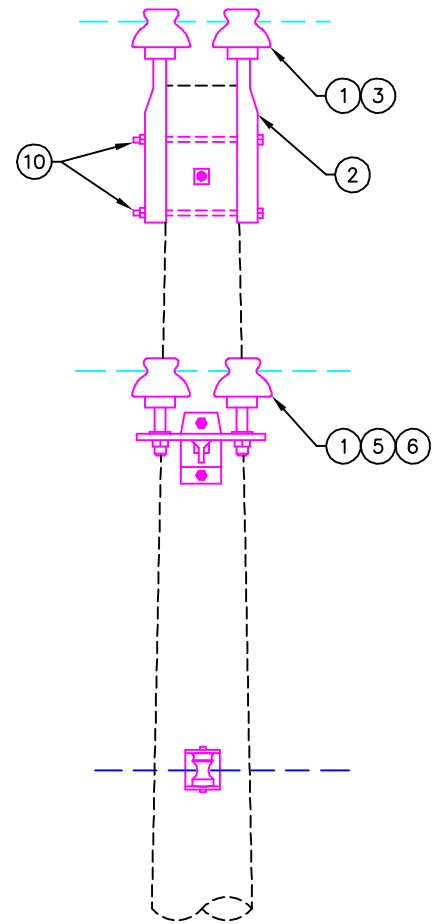
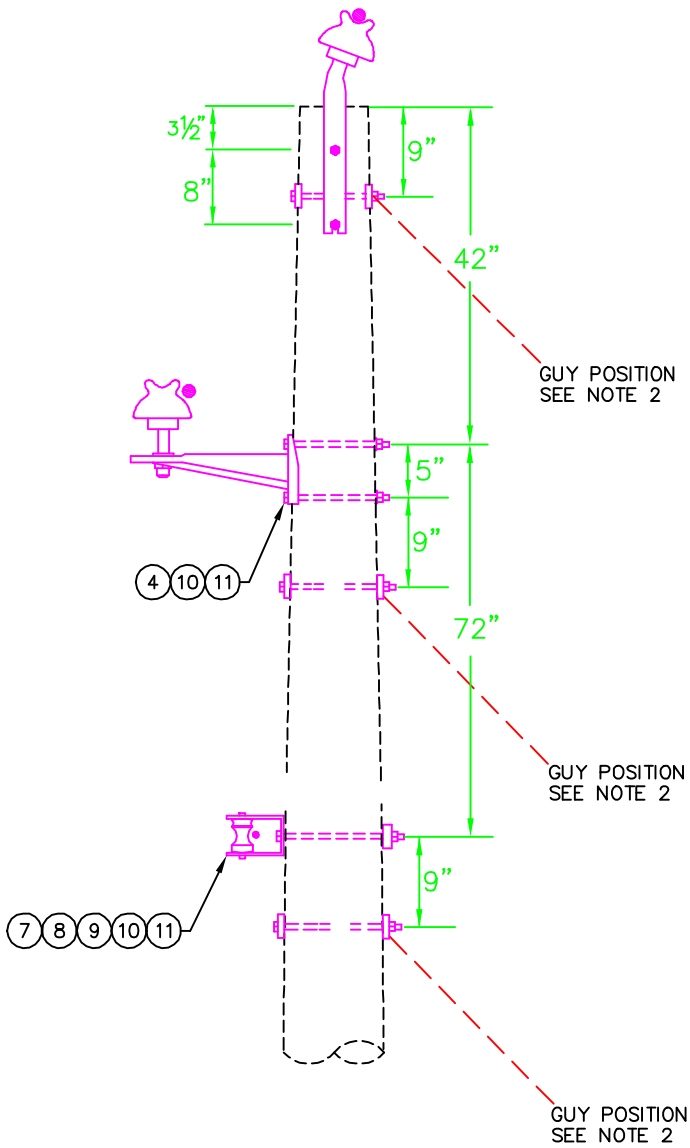
A6



NOTES:

- 1) SEE DRAWINGS DN-GG AND DM-9 FOR INFORMATION AND MATERIALS RELATED GROUNDING.

DWG REF	QTY	LIST OF MATERIALS		GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA					
		DESCRIPTION	STOCK #	12.47/7.2KV PRIMARY, TWO PHASE TANGENT, MIF CONSTRUCTION SINGLE PIN					
1	2	INSULATORS, 15 kV PIN TYPE	203710		DWN.	JLS	DATE:	08/23/2019	DWG. NO. B1
2	1	PIN, 18" POLE TOP	203430		CKD.	EGS	APPD.		
3	1	BRACKETS, MIF	203420	SCALE:	NTS				
4	1	PIN, SHANK	203440	DATE	REVISION	DATE	REVISION		
5	2	PREFORMS, 1/0 WRAP TIE	203590						
6	1	INSULATORS, SPOOL "J-151"	208280						
7	1	BOLTS, 5/8" x 12" SPOOL	202000						
8	1	PREFORMS, 1/0 SPOOL TIE	203650						
9	4	BOLTS, 5/8" x 12"	202070						
10	5	WASHERS, 2 1/4" SQUARE	204440						



NOTES:

- 1) LINE ANGLE FOR A DOUBLE PIN INSULATOR SHOULD BE (1°-12°).
- 2) SEE DRAWINGS DG-12(14), DG-GG, AND DM-9 FOR INFORMATION AND MATERIALS RELATED TO GUYING AND GROUNDING.

DWG REF	QTY	LIST OF MATERIALS	
		DESCRIPTION	STOCK #
1	4	INSULATORS, 15 kV PIN TYPE	203710
2	2	PIN, ANGLE POLE TOP	206000
3	1	PREFORMS, 1/0 DOUBLE SUPPORT	203580
4	1	BRACKETS, MIF	203420
5	2	PIN, SHANK	203440
6	1	PREFORMS, 1/0 DOUBLE SIDE TIE	203540
7	1	INSULATORS, SPOOL "J-151"	208280
8	1	CLEVIS, 1342	208290
9	1	PREFORMS, 1/0 SPOOL TIE	203650
10	5	BOLTS, 5/8" x 12"	202070
11	3	WASHERS, 3 X 3 CURVED	204450

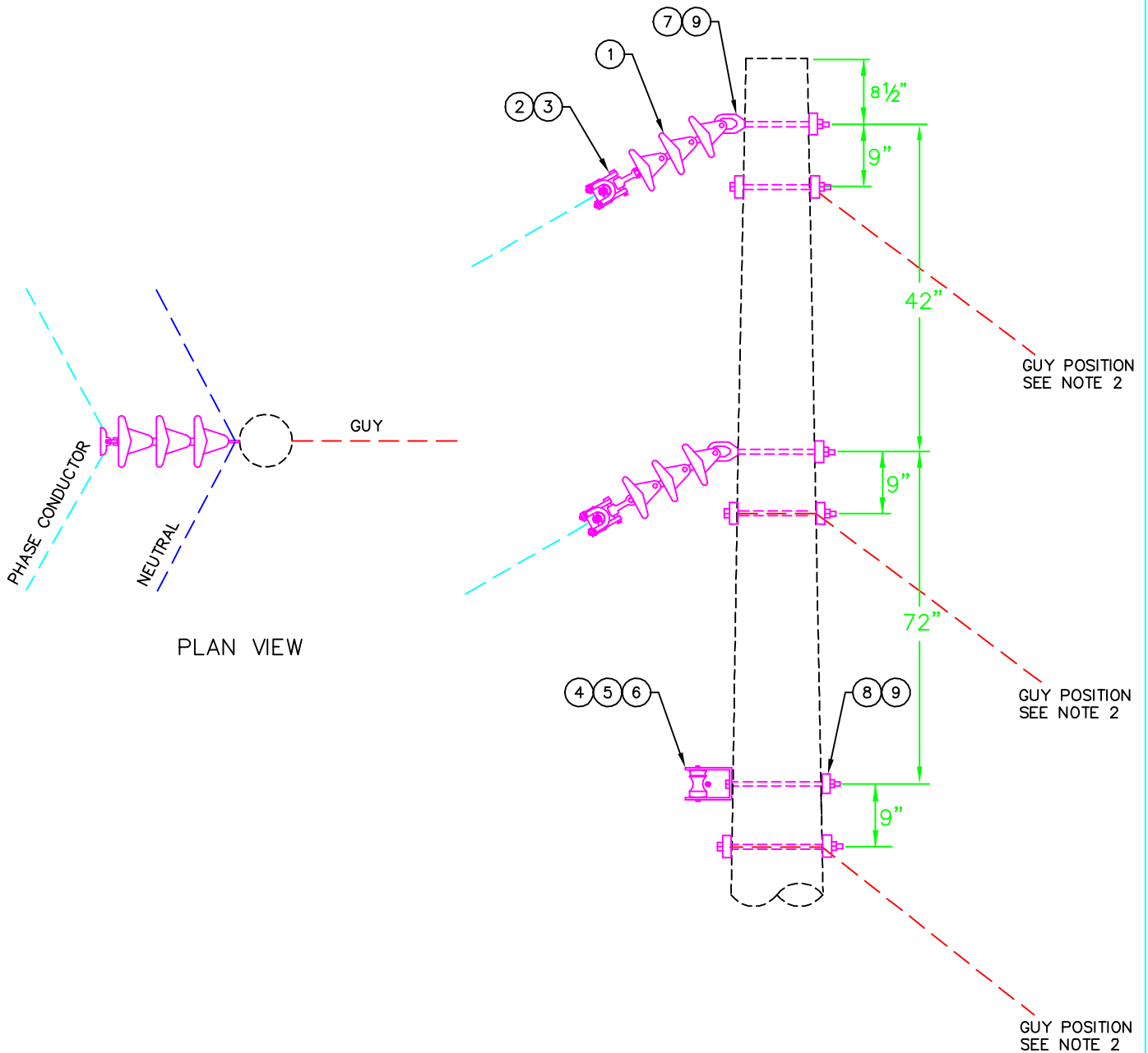
GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA



12.47/7.2KV PRIMARY, TWO PHASE
SMALL ANGLE, MIF CONSTRUCTION DOUBLE PIN


DWN.	JLS	DATE:	08/23/2019
CKD.	KW	APPD.	
SCALE:	NTS		
DATE	REVISION	DATE	REVISION

DWG. NO.
B2

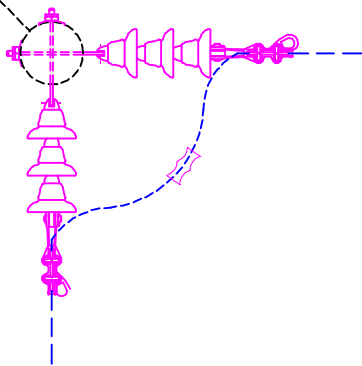


NOTES:

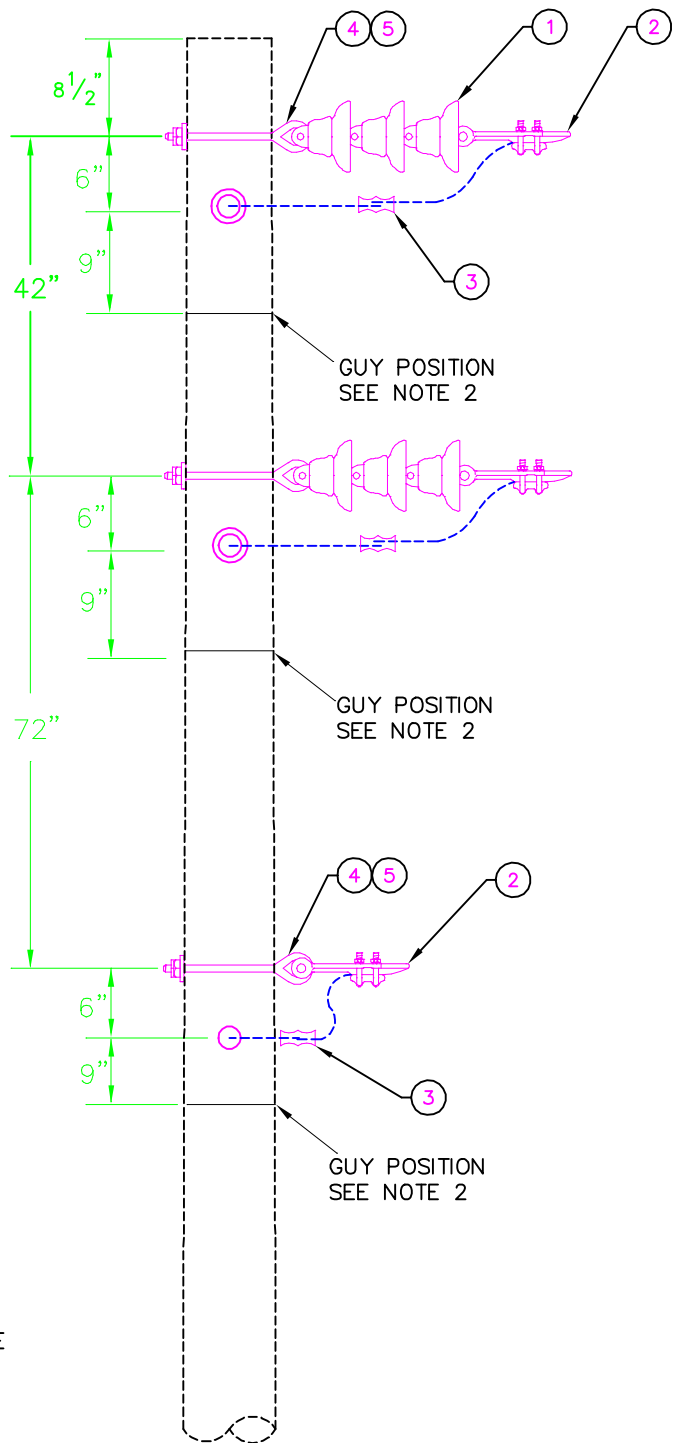
- 1) LINE ANGLE FOR A SUSPENSION INSULATOR SHOULD BE (13°-30°).
- 2) SEE DRAWINGS DG-12(14), DG-GG, AND DM-9 FOR INFORMATION AND MATERIALS RELATED TO GUYING AND GROUNDING.

DWG REF	QTY	LIST OF MATERIALS		GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA					
		DESCRIPTION	STOCK #	 12.47/7.2KV PRIMARY, TWO PHASE LARGE ANGLE, SUSPENSION INSULATOR					
1	2	INSULATORS, POLYMER DEAD END BELLS	206920					DWN. JLS CKD. KW SCALE: NTS DATE REVISION DATE REVISION	DATE: 08/23/2019
2	2	CLAMPS, 1/0 SUSPENSION	202420						
3	2	RODS, 1/0 ARMOR	201960						
4	1	INSULATORS, SPOOL "J-151"	208280	DATE: 08/23/2019	APPD.				
5	1	CLEVIS, 1342	208290						
6	1	PREFORMS, 1/0 SPOOL TIE	203650						
7	2	BOLTS, 5/8" x 12" EYE	202290	DATE	REVISION	DATE	REVISION		
8	1	BOLTS, 5/8" x 12"	202070						
9	3	WASHERS, 3 X 3 CURVED	204450						

GUY POSITION




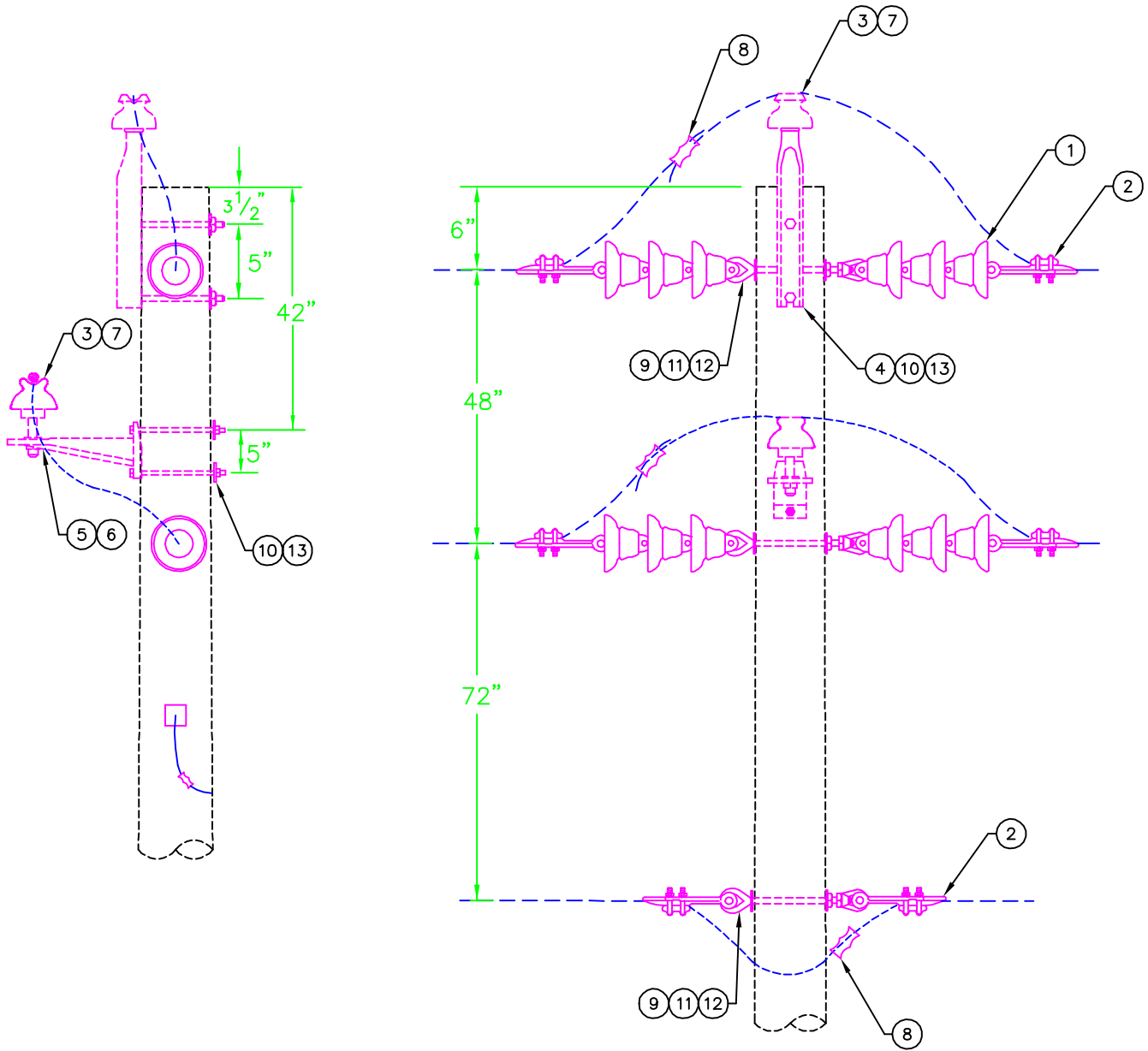
PLAN VIEW



NOTES:

- 1) LINE ANGLE FOR A DOUBLE DEADEND SHOULD BE GREATER THAN 30°.
- 2) SEE DRAWINGS DG-12(14), DG-GG, AND DM-9 FOR INFORMATION AND MATERIALS RELATED TO GUYING AND GROUNDING.

DWG REF	QTY	LIST OF MATERIALS		GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA																					
		DESCRIPTION	STOCK #		12.47/7.2KV PRIMARY, TWO PHASE LARGE ANGLE, DOUBLE DEADEND SUSPENSION																				
1	4	INSULATORS, POLYMER DEAD END BELLS	206920		<table border="1"> <tr> <td>DWN.</td> <td>JLS</td> <td colspan="2">DATE: 08/23/2019</td> </tr> <tr> <td>CKD.</td> <td>KW</td> <td colspan="2">APPD.</td> </tr> <tr> <td colspan="2">SCALE: NONE</td> <td colspan="2"></td> </tr> <tr> <td>DATE</td> <td>REVISION</td> <td>DATE</td> <td>REVISION</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>	DWN.	JLS	DATE: 08/23/2019		CKD.	KW	APPD.		SCALE: NONE				DATE	REVISION	DATE	REVISION				
DWN.	JLS	DATE: 08/23/2019																							
CKD.	KW	APPD.																							
SCALE: NONE																									
DATE	REVISION	DATE	REVISION																						
2	6	SHOE, #6 - 1/0 DEAD END	207570																						
3	3	SQUEEZONS, #4	203010																						
4	6	BOLTS, 5/8" x 12" EYE	202290																						
5	6	WASHERS, 3 X 3 CURVED	204450																						



NOTES:

- 1) SEE DRAWINGS DN-GG AND DM-9 FOR INFORMATION AND MATERIALS RELATED TO GUYING AND GROUNDING.

DWG REF	QTY	LIST OF MATERIALS	
		DESCRIPTION	STOCK #
1	4	INSULATORS, POLYMER DEAD END BELLS	206920
2	6	SHOE, #6 - 1/0 DEAD END	207570
3	2	INSULATORS, 15 kV PIN TYPE	203710
4	1	PIN, 18" POLE TOP	203430
5	1	BRACKETS, MIF	203420
6	1	PIN, SHANK	203440
7	2	PREFORMS, 1/0 WRAP TIE	203590
8	3	SQUEEZONS, #4	203010
9	3	BOLTS, 5/8" x 12" EYE	202290
10	4	BOLTS, 5/8" x 12"	202070
11	3	NUTS, 5/8" EYE	204420
12	3	WASHERS, 3 X 3 CURVED	204450
13	4	2 1/4" SQUARE WASHER	204440

GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA

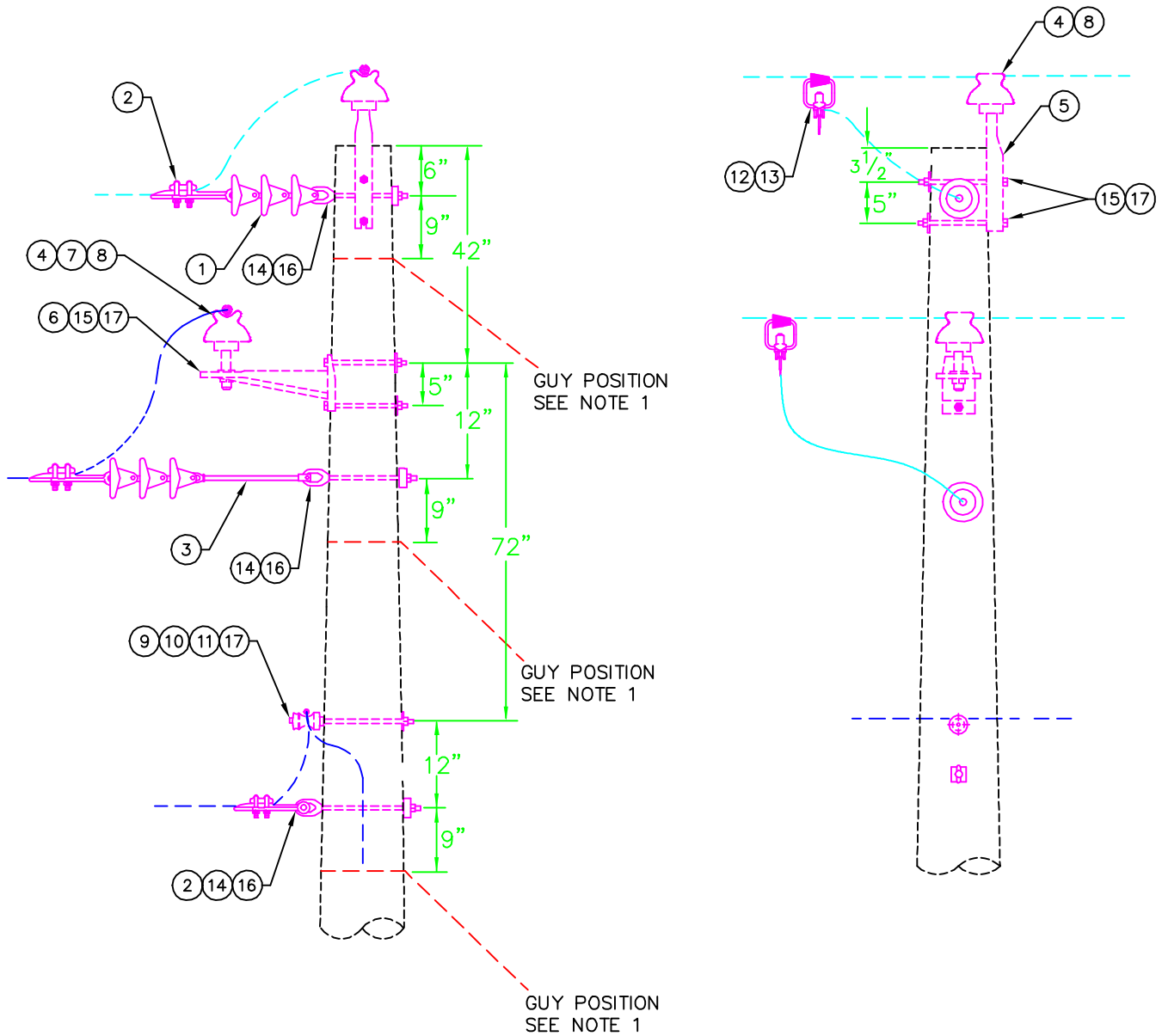


12.47/7.2KV PRIMARY, TWO PHASE
TANGENT, DOUBLE DEADEND SUSPENSION

DWN.	JLS	DATE: 08/26/2019	
CKD.	KW	APPD.	
SCALE: NONE			
DATE	REVISION	DATE	REVISION

DWG. NO.

B6



NOTES:

- 1) SEE DRAWINGS DG-12(14), DG-GG, AND DM-9 FOR INFORMATION AND MATERIALS RELATED TO GUYING AND GROUNDING.
- 2) BOND TAP NEUTRAL TO MAIN LINE NEUTRAL AND POLE GROUND. SEE DN-GG FOR DETAILS.

DWG REF	QTY	LIST OF MATERIALS	
		DESCRIPTION	STOCK #
1	2	INSULATORS, POLYMER DEAD END BELLS	206920
2	3	SHOE, #6 - 1/0 DEAD END	207570
3	1	EXTENSION, 14" LINKS	210340
4	1	INSULATORS, 15 kV PIN TYPE	203710
5	1	PIN, 18" POLE TOP	203430
6	1	BRACKETS, MIF	203420
7	1	PIN, SHANK	203440
8	2	PREFORMS, 1/0 WRAP TIE	203590
9	1	INSULATORS, SPOOL "J-151"	208280
10	1	BOLTS, 5/8" x 12" SPOOL	202000
11	1	PREFORMS, 1/0 SPOOL TIE	203650
12	2	CLAMPS, 1/0 SINGLE STIRRUP	202390
13	2	TAPS, HOT LINE CLAMPS	202350
14	3	BOLTS, 5/8" x 12" EYE	202290
15	4	BOLTS, 5/8" x 12"	202070
16	3	WASHERS, 3 X 3 CURVED	204450
17	5	2 1/4" SQUARE WASHER	204440

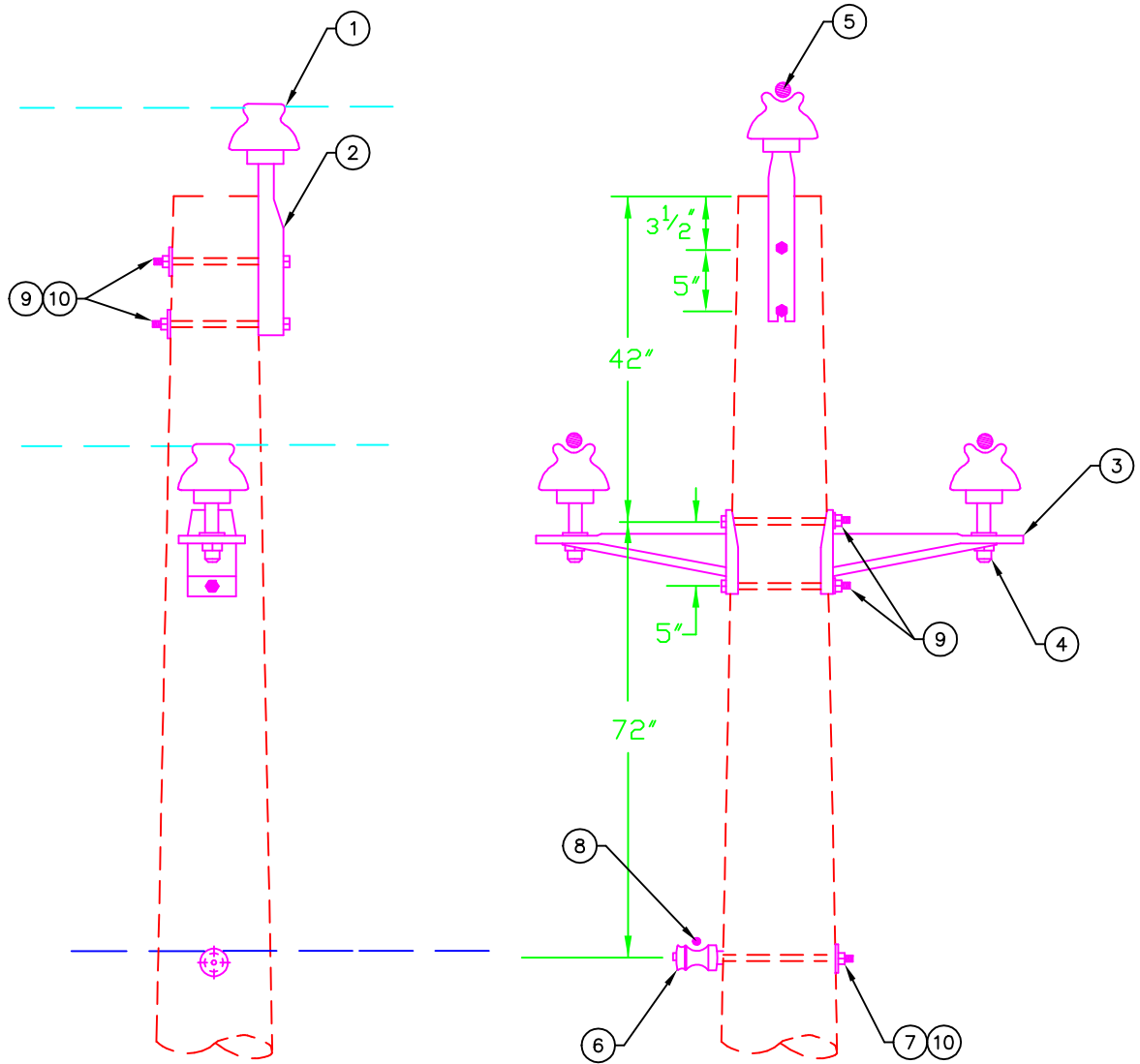
GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA



12.47/7.2KV PRIMARY, TWO PHASE
TANGENT WITH TWO PHASE DEAD END TAP

DWN.	JLS	DATE:	08/26/2019
CKD.	KW	APPD.	
SCALE:	NONE		
DATE	REVISION	DATE	REVISION

DWG. NO.
B7



NOTES:

- 1) SEE DRAWINGS DN-GG AND DM-9 FOR INFORMATION AND MATERIALS RELATED GROUNDING.
- 2) MATERIAL VARIES WITH CONDUCTOR SIZE (1/0, 336, AND 795). SEE MATERIALS LIST FOR DETAILS.

DWG REF	QTY	LIST OF MATERIALS	STOCK#
1/0336795		DESCRIPTION	
1	3 3	INSULATORS, 15 kV PIN TYPE	203710
1	- -	INSULATOR, 25 kV POST TYPE	207720
2	1 1	PIN, 18" POLE TOP	203430
2	- -	BRACKET, 35 kV POLE TOP	207890
3	2 2	BRACKETS, MIF	203420
4	2 2	PIN, SHANK	203440
4	- -	BOLTS, 3/4" x 3/4" STUD	210361
5	3 -	PREFORMS, 1/0 WRAP TIE	203590
5	- 3	PREFORMS, 336 WRAP LOCK TIE	203600
5	- -	PREFORMS, 795 WRAP LOCK TIE	203660
6	1 1	INSULATORS, SPOOL "J-151"	208280
7	1 1	BOLTS, 5/8" x 12" SPOOL	202000
8	1 1	PREFORMS, 1/0 SPOOL TIE	203650
8	- -	PREFORMS, 336 SPOOL TIE	207580
9	4 4	BOLTS, 5/8" x 12"	202070
10	3 3	WASHERS, 2 1/4" SQUARE	204440

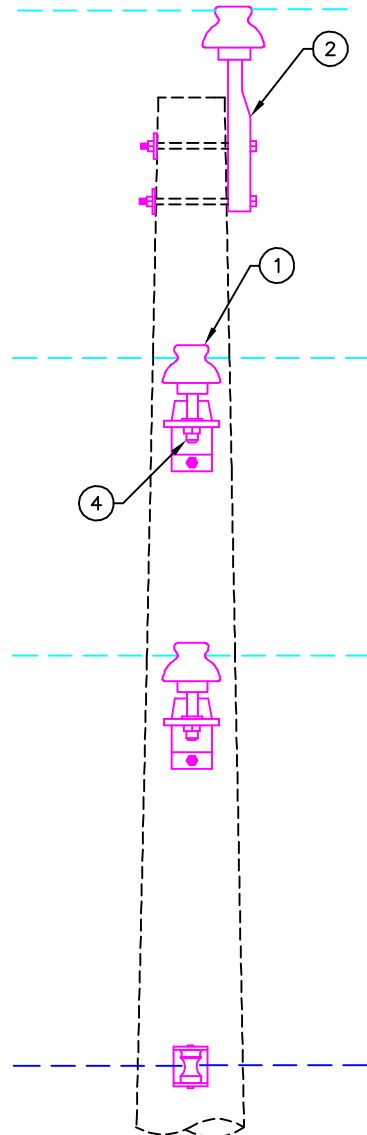
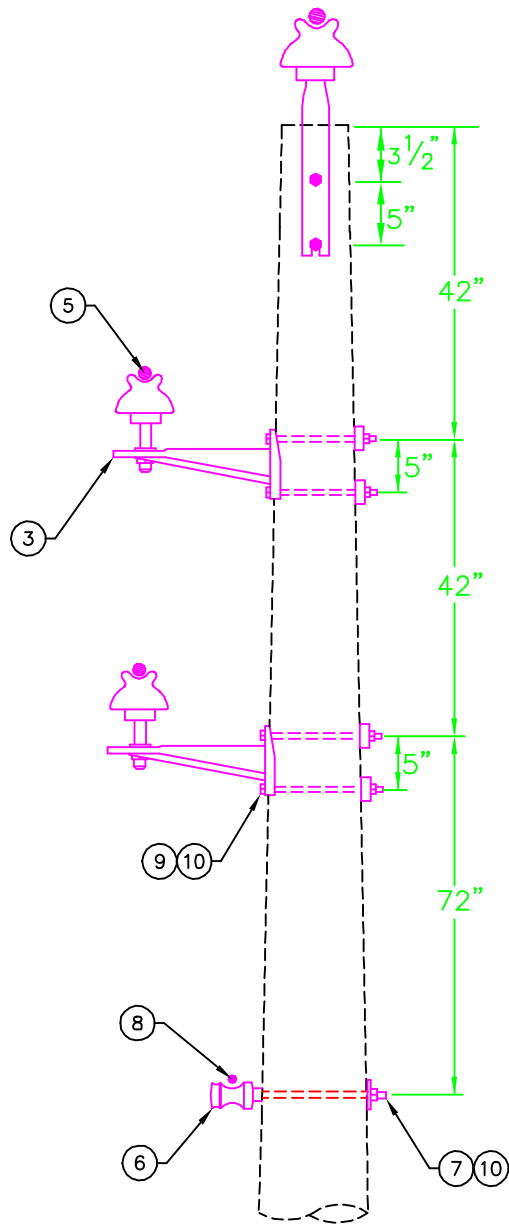
GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA



12.47/7.2KV PRIMARY, THREE PHASE
TANGENT, MIF CONSTRUCTION SINGLE PIN

DWN.	JLS	DATE:	08/27/2019
CKD.	KW	APPD.	
SCALE:	NTS		
DATE	REVISION	DATE	REVISION

DWG. NO.
C1



NOTES:

- 1) SEE DRAWINGS DN-GG AND DM-9 FOR INFORMATION AND MATERIALS RELATED GROUNDING.
- 2) MATERIAL VARIES WITH CONDUCTOR SIZE (1/0, 336, AND 795). SEE MATERIALS LIST FOR DETAILS.

DWG REF	QTY			LIST OF MATERIALS DESCRIPTION	STOCK#
	1/0	336	795		
1	3	3	-	INSULATORS, 15 kV PIN TYPE	203710
1	-	-	3	INSULATOR, 25 kV POST TYPE	207720
2	1	1	-	PIN, 18" POLE TOP	203430
2	-	-	1	BRACKET, 35 kV POLE TOP	207890
3	2	2	2	BRACKETS, MIF	203420
4	2	2	-	PIN, SHANK	203440
4	-	-	3	BOLTS, 3/4" x 3/4" STUD	210361
5	3	-	-	PREFORMS, 1/0 WRAP TIE	203590
5	-	3	-	PREFORMS, 336 WRAP LOCK TIE	203600
5	-	-	3	PREFORMS, 795 WRAP LOCK TIE	203660
6	1	1	1	INSULATORS, SPOOL "J-151"	208280
7	1	1	1	BOLTS, 5/8" x 12" SPOOL	202000
8	1	1	-	PREFORMS, 1/0 SPOOL TIE	203650
8	-	-	1	PREFORMS, 336 SPOOL TIE	207580
9	6	6	6	BOLTS, 5/8" x 12"	202070
10	7	7	7	WASHERS, 2 1/4" SQUARE	204440

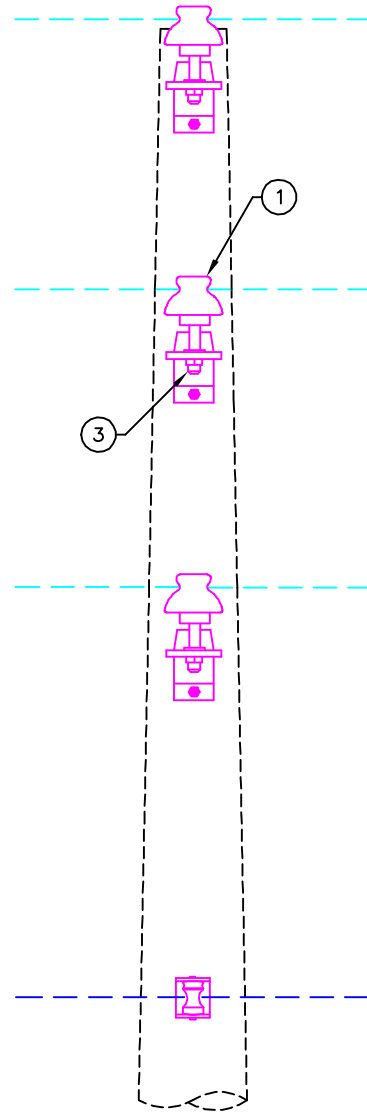
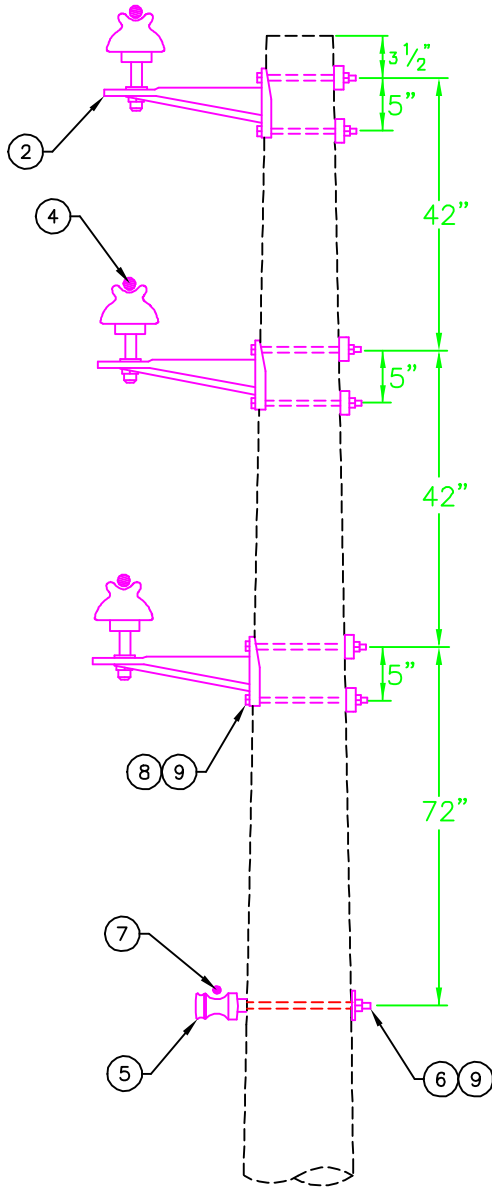
GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA



12.47/7.2KV PRIMARY, THREE PHASE
TANGENT, MIF VERTICAL SINGLE PIN, POLE TOP

DWN.	JLS	DATE: 08/28/2019	
CKD.	KW	APPD.	
SCALE: NTS			
DATE	REVISION	DATE	REVISION

DWG. NO.
C1.V



NOTES:

- 1) SEE DRAWINGS DN-GG AND DM-9 FOR INFORMATION AND MATERIALS RELATED GROUNDING.
- 2) MATERIAL VARIES WITH CONDUCTOR SIZE (1/0, 336, AND 795). SEE MATERIALS LIST FOR DETAILS.

DWG REF	QTY	LIST OF MATERIALS	STOCK#	
1/0	336	795	DESCRIPTION	STOCK#
1	3	3	INSULATORS, 15 kV PIN TYPE	203710
1	-	-	INSULATOR, 25 kV POST TYPE	207720
2	3	3	BRACKETS, MIF	203420
3	3	3	PIN, SHANK	203440
3	-	-	BOLTS, 3/4" x 3/4" STUD	210361
4	3	-	PREFORMS, 1/0 WRAP TIE	203590
4	-	3	PREFORMS, 336 WRAP LOCK TIE	203600
4	-	-	PREFORMS, 795 WRAP LOCK TIE	203660
5	1	1	INSULATORS, SPOOL "J-151"	208280
6	1	1	BOLTS, 5/8" x 12" SPOOL	202000
7	1	1	PREFORMS, 1/0 SPOOL TIE	203650
7	-	1	PREFORMS, 336 SPOOL TIE	207580
8	6	6	BOLTS, 5/8" x 12"	202070
9	7	7	WASHERS, 2 1/4" SQUARE	204440

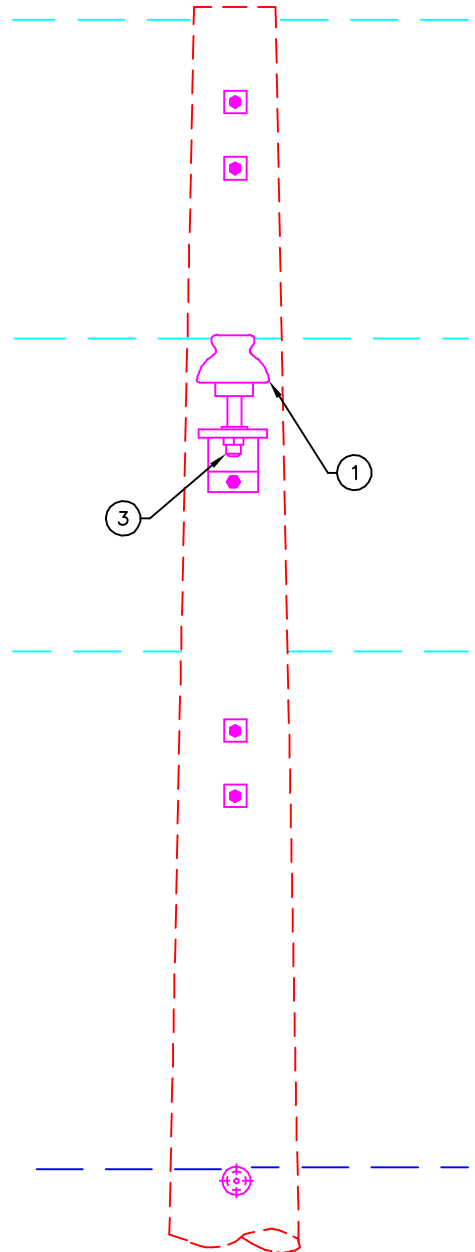
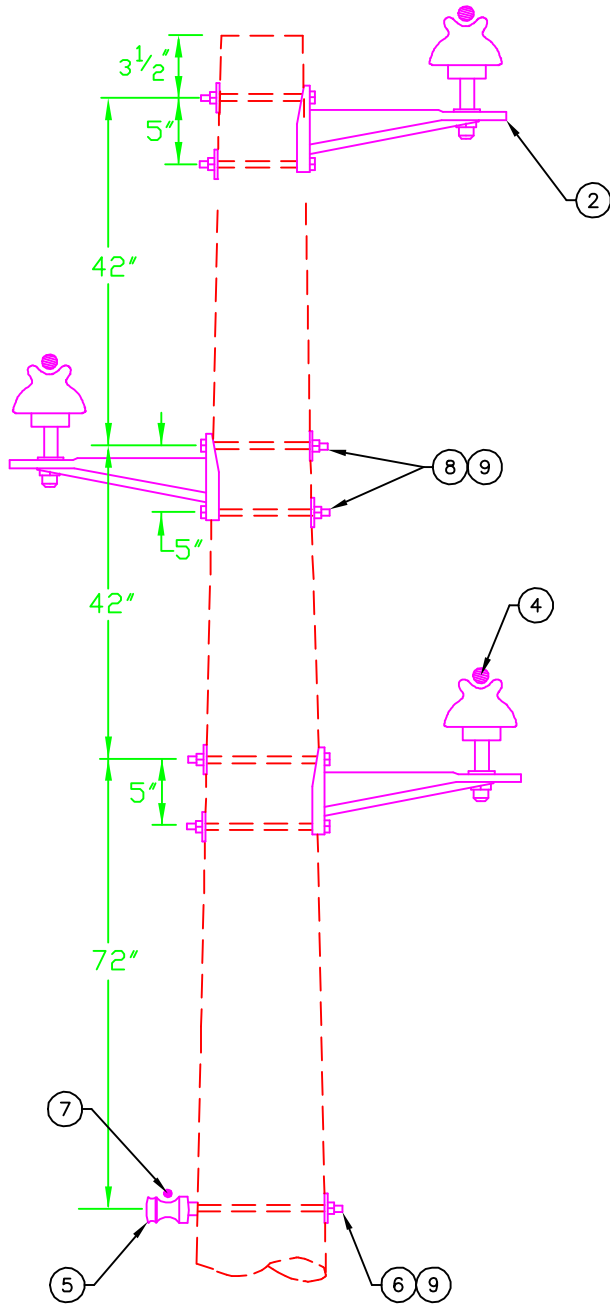
GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA



12.47/7.2KV PRIMARY, THREE PHASE
TANGENT, MIF VERTICAL SINGLE PIN

DWN.	JLS	DATE:	08/28/2019
CKD.	KW	APPD.	
SCALE:	NTS		
DATE	REVISION	DATE	REVISION

DWG. NO.
C1.V1



NOTES:

- 1) SEE DRAWINGS DN-GG AND DM-9 FOR INFORMATION AND MATERIALS RELATED GROUNDING.
- 2) MATERIAL VARIES WITH CONDUCTOR SIZE (1/0, 336, AND 795). SEE MATERIALS LIST FOR DETAILS.

DWG REF	QTY			LIST OF MATERIALS	
	1/0	336	795	DESCRIPTION	STOCK#
1	3	3	-	INSULATORS, 15 kV PIN TYPE	203710
1	-	-	3	INSULATOR, 25 kV POST TYPE	207720
2	3	3	3	BRACKETS, MIF	203420
3	3	3	-	PIN, SHANK	203440
3	-	-	3	BOLTS, 3/4" x 3/4" STUD	210361
4	3	-	-	PREFORMS, 1/0 WRAP TIE	203590
4	-	3	-	PREFORMS, 336 WRAP LOCK TIE	203600
4	-	-	3	PREFORMS, 795 WRAP LOCK TIE	203660
5	1	1	1	INSULATORS, SPOOL "J-151"	208280
6	1	1	1	BOLTS, 5/8" x 12" SPOOL	202000
7	1	1	-	PREFORMS, 1/0 SPOOL TIE	203650
7	-	-	1	PREFORMS, 336 SPOOL TIE	207580
8	6	6	6	BOLTS, 5/8" x 12"	202070
9	7	7	7	WASHERS, 2 1/4" SQUARE	204440

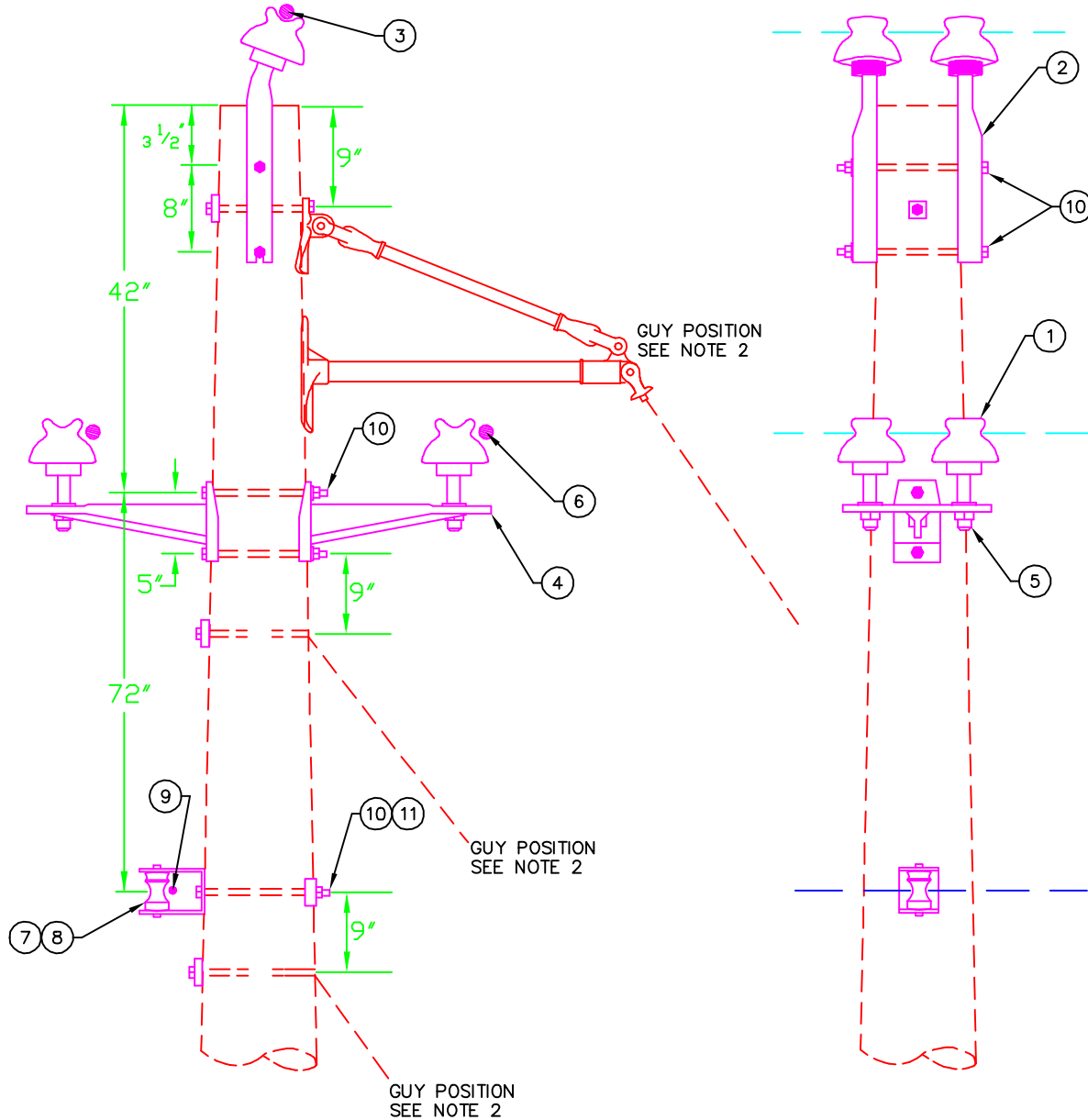
GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA



12.47/7.2KV PRIMARY, THREE PHASE
TANGENT, MIF Z CONSTRUCTION SINGLE PIN

DWN.	JLS	DATE: 08/28/2019	
CKD.	KW	APPD.	
SCALE:		NTS	
DATE	REVISION	DATE	REVISION

DWG. NO.
C1.Z



NOTES:

- 1) LINE ANGLE FOR A DOUBLE PIN INSULATOR SHOULD BE (1°-12°).
- 2) SEE DRAWINGS SWG-12(14), DG-12(14), DG-GG, AND DM-9 FOR INFORMATION AND MATERIALS RELATED TO GUYING AND GROUNDING.
- 3) MATERIAL VARIES WITH CONDUCTOR SIZE (1/0, 336, AND 795). SEE MATERIALS LIST FOR DETAILS

DWG REF	QTY	LIST OF MATERIALS	STOCK#
	1/0336795	DESCRIPTION	
1	6 6	INSULATORS, 15 kV PIN TYPE	203710
1	- - 6	INSULATOR, 25 kV POST TYPE	207720
2	2 2	PIN, 18" POLE TOP	203430
2	- - 2	BRACKET, 35 kV POLE TOP	207890
3	1 - -	PREFORMS, 1/0 DOUBLE SUPPORT	203580
3	- 1 -	PREFORMS, 336 DOUBLE SUPPORT TIE	203570
3	- - 1	PREFORMS, 795 DOUBLE SUPPORT TIE	203670
4	2 2 2	BRACKETS, MIF	203420
5	4 4	PIN, SHANK	203440
5	- - 6	BOLTS, 3/4" x 3/4" STUD	210361
6	2 - -	PREFORMS, 1/0 DOUBLE SIDE TIE	203540
6	- 2 -	PREFORMS, 336 DOUBLE SIDE TIE	203550
6	- - 2	PREFORMS, 795 DOUBLE SIDE TIE	207800
7	1 1 1	INSULATORS, SPOOL "J-151"	208280
8	1 1 1	CLEVIS, 1342	208290
9	1 1 -	PREFORMS, 1/0 SPOOL TIE	203650
9	- - 1	PREFORMS, 336 SPOOL TIE	207580
10	5 5 5	BOLTS, 5/8" x 12"	202070
11	1 1 1	WASHERS, 3 X 3 CURVED	204450

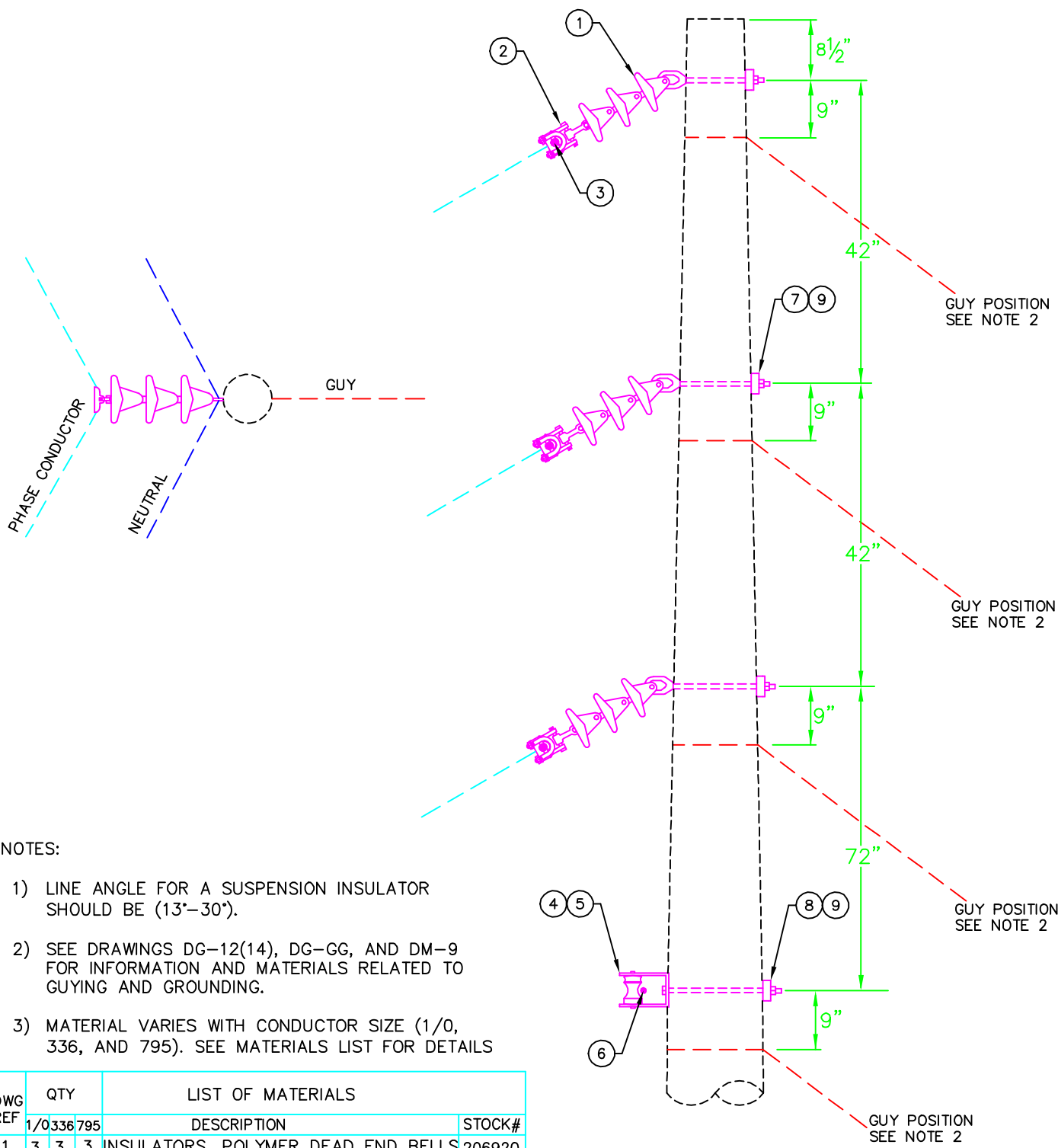
GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA



12.47/7.2KV PRIMARY, THREE PHASE
SMALL ANGLE, MIF CONSTRUCTION DOUBLE PIN

DWN.	JLS	DATE:	08/28/2019
CKD.	KW	APPD.	
SCALE:	NTS		
DATE	REVISION	DATE	REVISION

DWG. NO.
C2



NOTES:

- 1) LINE ANGLE FOR A SUSPENSION INSULATOR SHOULD BE (13°-30°).
- 2) SEE DRAWINGS DG-12(14), DG-GG, AND DM-9 FOR INFORMATION AND MATERIALS RELATED TO GUYING AND GROUNDING.
- 3) MATERIAL VARIES WITH CONDUCTOR SIZE (1/0, 336, AND 795). SEE MATERIALS LIST FOR DETAILS

DWG REF	QTY	LIST OF MATERIALS	STOCK#	
1/0	336	795		
1	3	3	INSULATORS, POLYMER DEAD END BELLS	206920
2	3	-	CLAMPS, 1/0 SUSPENSION	202420
2	-	3	CLAMPS, 336 SUSPENSION	202400
2	-	3	CLAMPS, 795 SUSPENSION	202430
3	3	-	RODS, 1/0 ARMOR	201960
3	-	3	RODS, 336 ARMOR	201980
3	-	3	RODS, 795 ARMOR	207740
4	1	1	INSULATORS, SPOOL "J-151"	208280
5	1	1	CLEVIS, 1342	208290
6	1	1	PREFORMS, 1/0 SPOOL TIE	203650
6	-	-	PREFORMS, 336 SPOOL TIE	207580
7	3	3	BOLTS, 5/8" x 12" EYE	202290
8	1	1	BOLTS, 5/8" x 12"	202070
9	4	4	WASHERS, 3 X 3 CURVED	204450

GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA

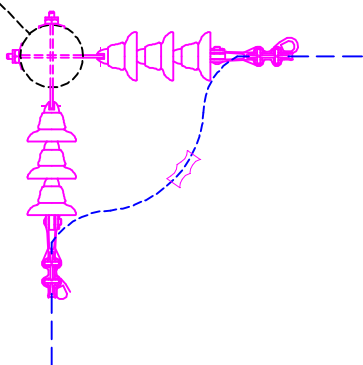


12.47/7.2KV PRIMARY, THREE PHASE
LARGE ANGLE, SUSPENSION INSULATOR

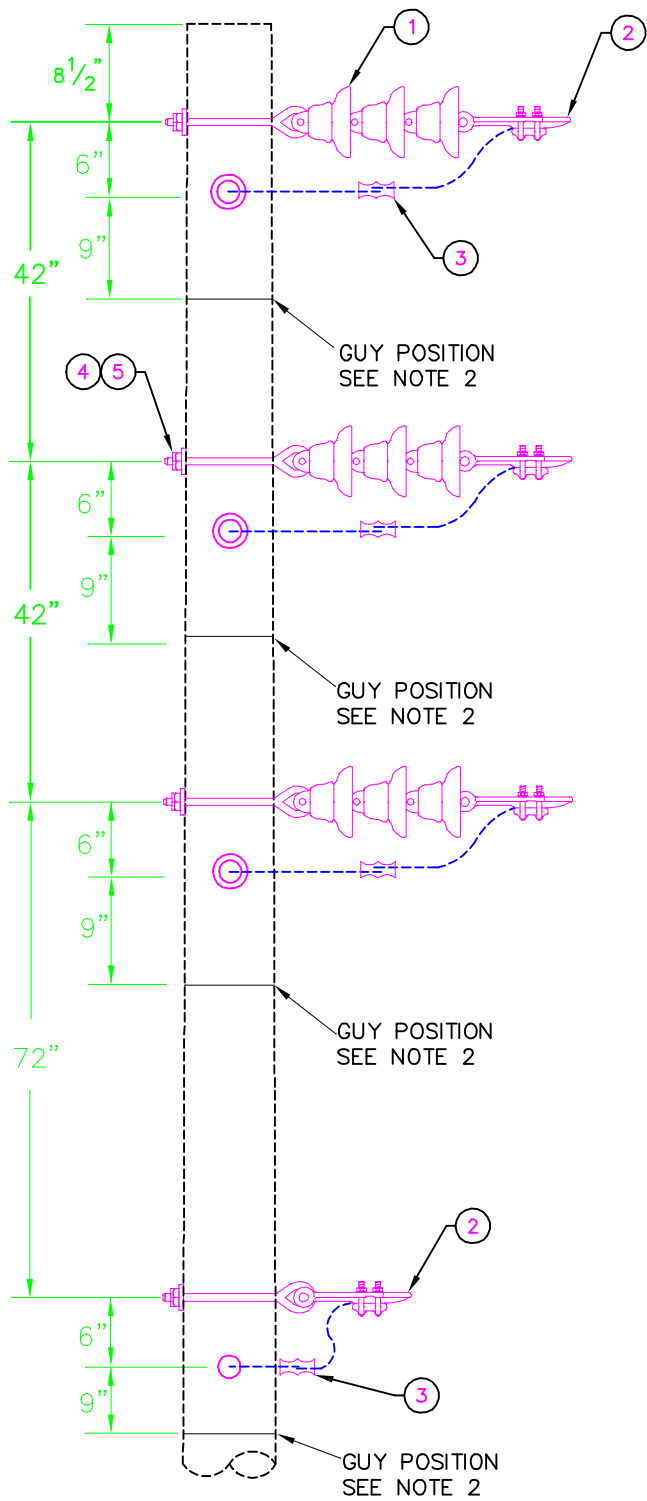
DWN.	JLS	DATE:	09/03/2019
CKD.	KW	APPD.	
SCALE:	NTS		
DATE	REVISION	DATE	REVISION

DWG. NO.
C3

GUY POSITION



PLAN VIEW



NOTES:

- 1) LINE ANGLE FOR A DOUBLE DEADEND SHOULD BE GREATER THAN 30°.
- 2) SEE DRAWINGS DG-12(14), DG-GG, AND DM-9 FOR INFORMATION AND MATERIALS RELATED TO GUYING AND GROUNDING.
- 3) MATERIAL VARIES WITH CONDUCTOR SIZE (1/0, 336, AND 795). SEE MATERIALS LIST FOR DETAILS.

DWG REF	QTY	LIST OF MATERIALS	STOCK #
1/0336795		DESCRIPTION	
1	6 6 6	INSULATORS, POLYMER DEAD END BELLS	206920
2	8 2 -	SHOE, #6 - 1/0 DEAD END	207570
2	- 6 2	SHOE, 336 DEAD END	202450
2	- - 6	SHOE, 795 DEAD END	202440
3	4 1 -	SQUEEZONS, #4	203010
3	- 3 1	CONN., 602007 AMPACT 336-336	202880
3	- - 3	CONN., 795-795 AMPACT	202940
4	8 8 8	BOLTS, 5/8" X 12" EYE	202290
5	8 8 8	WASHERS, 3 X 3 CURVED	204450

GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA

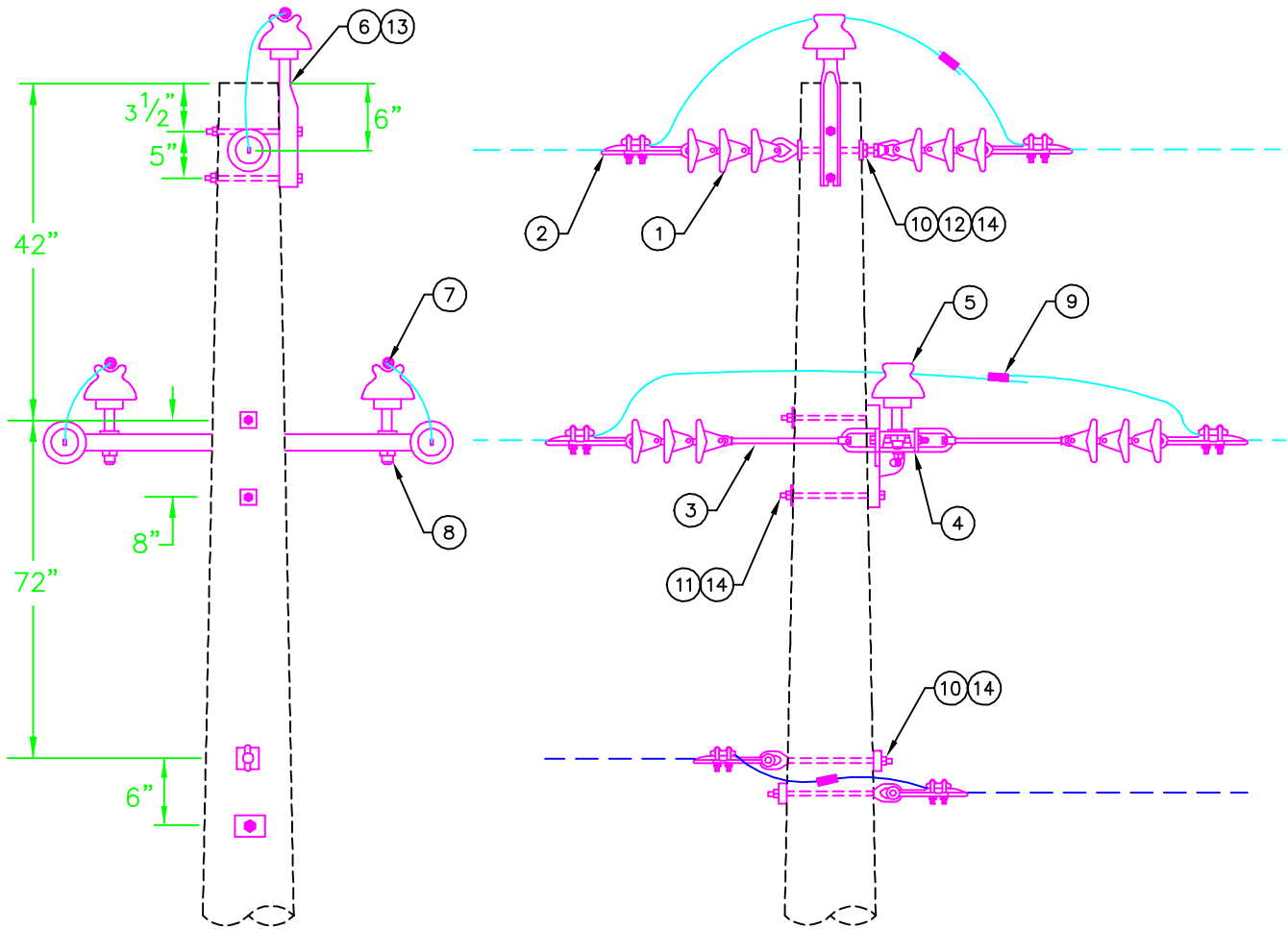


12.47/7.2KV PRIMARY, THREE PHASE
LARGE ANGLE, DOUBLE DEADEND SUSPENSION

DWN.	JLS	DATE:	09/03/2019
CKD.	KW	APPD.	
SCALE:	NONE		
DATE	REVISION	DATE	REVISION

DWG. NO.

C4



DWG REF	QTY	LIST OF MATERIALS	STOCK#
1	6 6 6	INSULATORS, POLYMER DEAD END BELLS	203710
2	8 2	SHOE, #6 - 1/0 DEAD END	207570
2	- 6 2	SHOE, 336 DEAD END	202450
2	- - 6	SHOE, 795 DEAD END	202440
3	4 4 4	EXTENSIONS, 14" LINKS	210340
4	1 1 1	ARMS, STEEL DEAD END CROSS	203800
5	3 3	INSULATORS, 15 kV PIN TYPE	203710
5	- - 3	INSULATOR, 25 kV POST TYPE	207720
6	1 1	PIN, 18" POLE TOP	203430
6	- - 1	BRACKET, 35 kV POLE TOP	207890
7	3 - -	PREFORMS, 1/0 WRAP TIE	203590
7	- 3 -	PREFORMS, 336 WRAP LOCK TIE	203600
7	- - 3	PREFORMS, 795 WRAP LOCK TIE	203660
8	2 2	PINS, LONG SHANK CROSS ARM	210311
8	- - 2	PINS, 35 kV CROSS	-
9	4 1	SQUEEZONS, #4	203010
9	- 3 1	CONN., 602007 AMPACT 336-336	202880
9	- - 3	CONN., 795-795 AMPACT	202940
10	3 3 3	BOLTS, 5/8" x 12" EYE	202290
11	2 2 2	BOLTS, 3/4" x 12"	202230
12	1 1 1	NUTS, 5/8" EYE	204420
13	- - 1	BOLTS, 3/4" x 3/4" STUD	210361
14	5 5 5	WASHERS, 3 X 3 CURVED	204450

NOTES:

- 1) SEE DRAWINGS DN-GG AND DM-9 FOR INFORMATION AND MATERIALS RELATED TO GUYING AND GROUNDING.
- 2) MATERIAL VARIES WITH CONDUCTOR SIZE (1/0, 336, AND 795). SEE MATERIALS LIST FOR DETAILS.

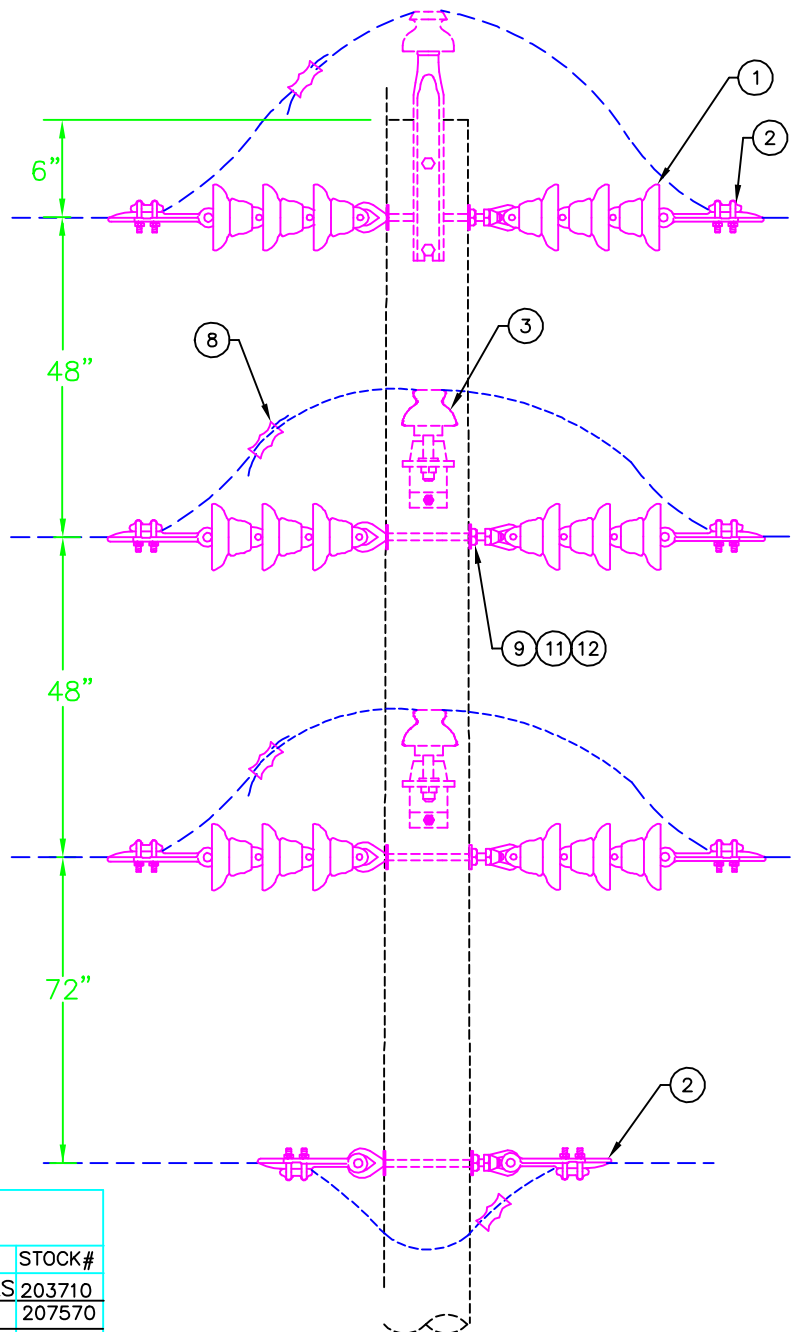
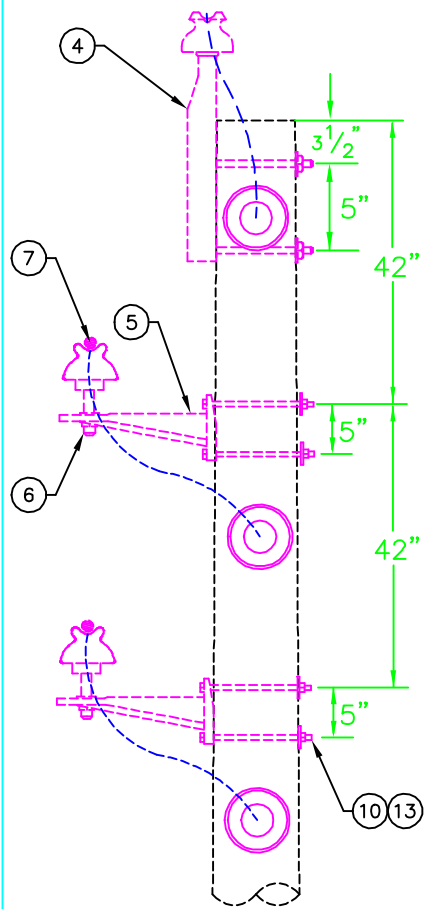
GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA



12.47/7.2KV PRIMARY, THREE PHASE
TANGENT DOUBLE DEADEND, CROSS. SUSPEN.

DWN.	JLS	DATE:	09/04/2019
CKD.	KW	APPD.	
SCALE:	NTS		
DATE	REVISION	DATE	REVISION

DWG. NO.
C6



DWG REF	QTY	LIST OF MATERIALS DESCRIPTION	STOCK#
1	6	6 INSULATORS, POLYMER DEAD END BELLS	203710
2	8	2 - SHOE, #6 - 1/0 DEAD END	207570
2	-	6 2 SHOE, 336 DEAD END	202450
2	-	6 6 SHOE, 795 DEAD END	202440
3	3	3 - INSULATORS, 15 kV PIN TYPE	203710
3	-	3 INSULATOR, 25 kV POST TYPE	207720
4	1	1 - PIN, 18" POLE TOP	203430
4	-	1 BRACKET, 35 kV POLE TOP	207890
5	1	1 BRACKETS, MIF	203420
6	2	2 - PIN, SHANK	203440
6	-	3 BOLTS, 3/4" x 3/4" STUD	210361
7	3	- PREFORMS, 1/0 WRAP TIE	203590
7	-	3 - PREFORMS, 336 WRAP LOCK TIE	203600
7	-	3 - PREFORMS, 795 WRAP LOCK TIE	203660
8	4	1 - SQUEEZONS, #4	203010
8	-	3 1 CONN., 602007 AMPACT 336-336	202880
8	-	3 CONN., 795-795 AMPACT	202940
9	4	4 4 BOLTS, 5/8" x 12" EYE	202290
10	6	6 6 BOLTS, 5/8" x 12"	202070
11	4	4 4 NUTS, 5/8" EYE	204420
12	3	3 3 WASHERS, 3 X 3 CURVED	204450
13	5	5 5 2 1/4" SQUARE WASHER	204440

NOTES:

- 1) SEE DRAWINGS DN-GG AND DM-9 FOR INFORMATION AND MATERIALS RELATED TO GUYING AND GROUNDING.

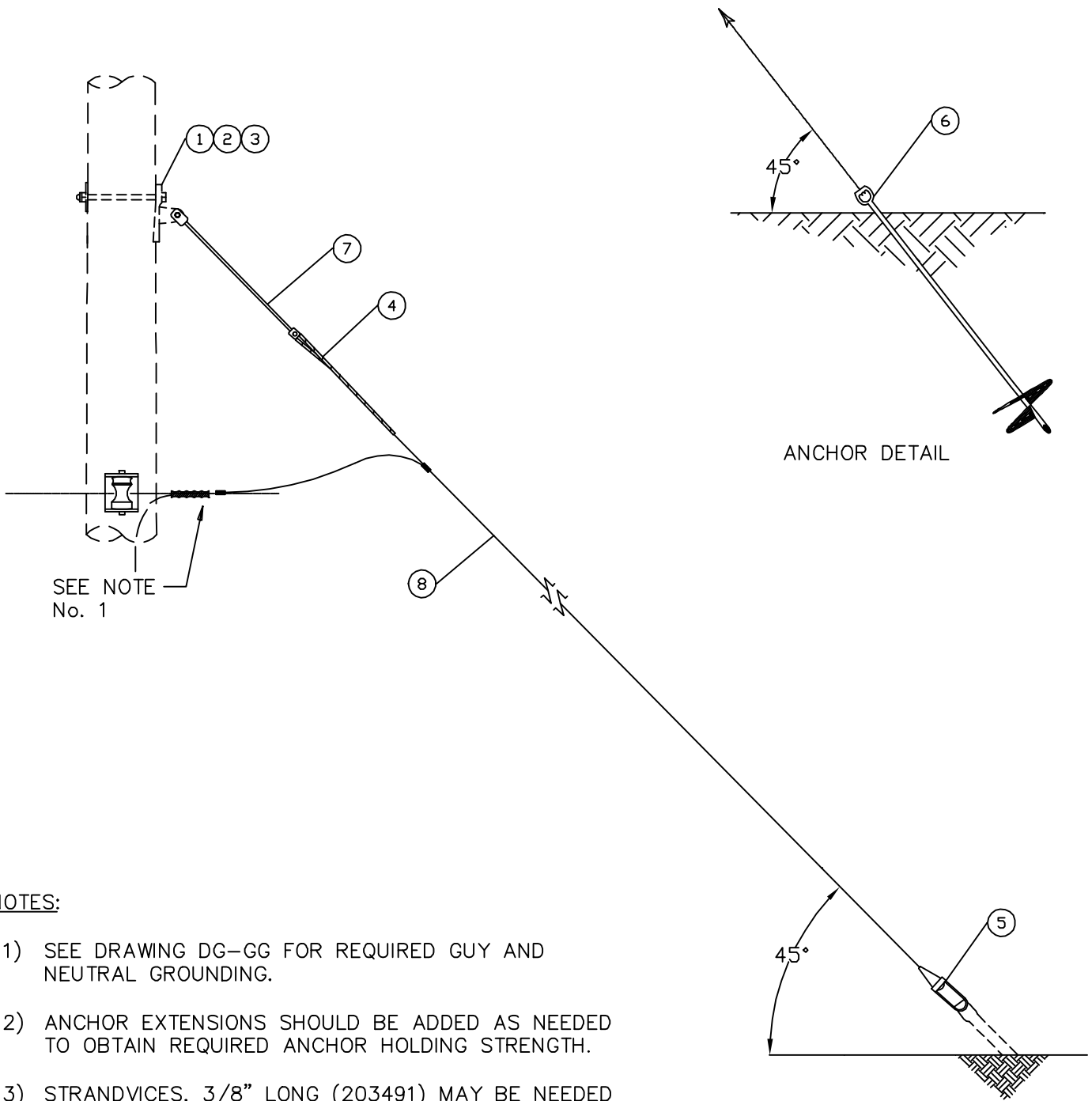
GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA



12.47/7.2KV PRIMARY, THREE PHASE
TANGENT, DOUBLE DEADEND SUSPENSION


DWN.	JLS	DATE:	09/04/2019
CKD.	KW	APPD.	
SCALE:	NONE		
DATE	REVISION	DATE	REVISION

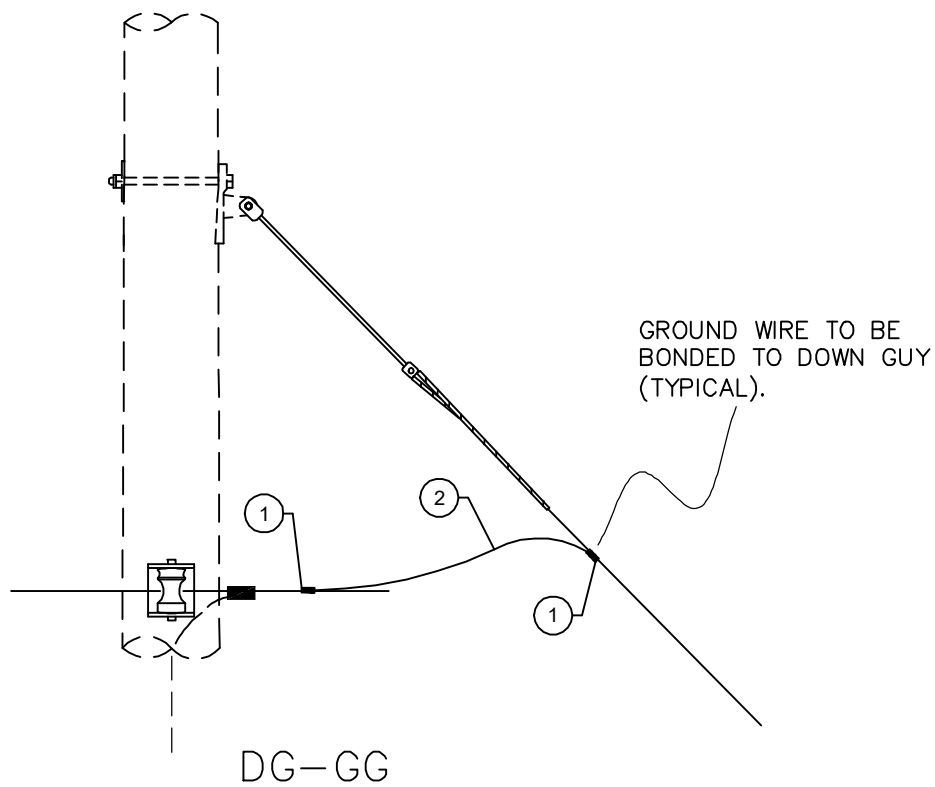
DWG. NO.
C6.V



NOTES:

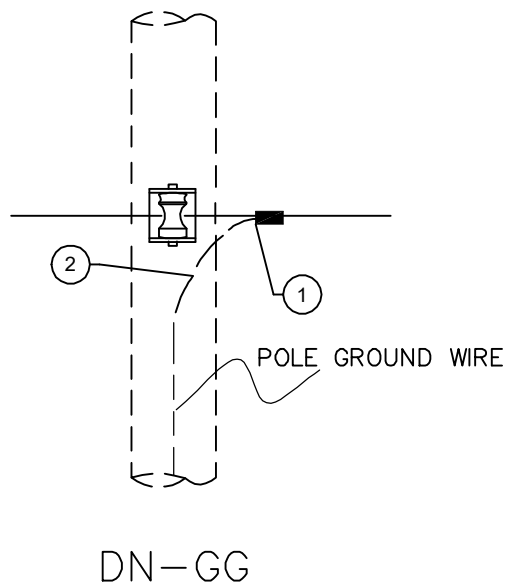
- 1) SEE DRAWING DG-GG FOR REQUIRED GUY AND NEUTRAL GROUNDING.
- 2) ANCHOR EXTENSIONS SHOULD BE ADDED AS NEEDED TO OBTAIN REQUIRED ANCHOR HOLDING STRENGTH.
- 3) STRANDVICES, 3/8" LONG (203491) MAY BE NEEDED WHEN ATTACHING 2 GUY TO A SINGLE ANCHOR.


DWG. REF.	QTY		LIST OF MATERIALS	STOCK #	GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA			
	12	14			DESCRIPTION		DISTRIBUTION SINGLE DOWN GUY	
1	1	1	PLATES, P-345 GUY	203410		DATE: 07/31/19		DWG. NO.
2	1	-	BOLTS, 3/4" X 12" MACHINE	202230		APPD. KW		
2	-	1	BOLTS, 3/4" X 14" MACHINE	202240		SCALE: N.T.S.		
3	1	1	WASHERS, 3 X 3 CURVED	204450		DATE	REVISION	
4	1	1	GRIPS, 3/8" PREFORM GUY GDE-2107	207540				
5	1	1	STRANDVICES, 3/8"	203490	DWN. JLS		DG-12	
6	1	1	ANCHOR, 10" SCREW	203980	CKD. KW			
7	*	*	ISOLATORS, STRAIN X REQUIRED LENGTH	-	SCALE: N.T.S.		DG-14	
8	*	*	WIRE, 3/8" GUY	204470	DATE			
	1	1	GUARD, YELLOW GUY	208690				
* QUANTITY DEPENDS ON POLE HEIGHT & CONDUCTOR CLEARANCE								

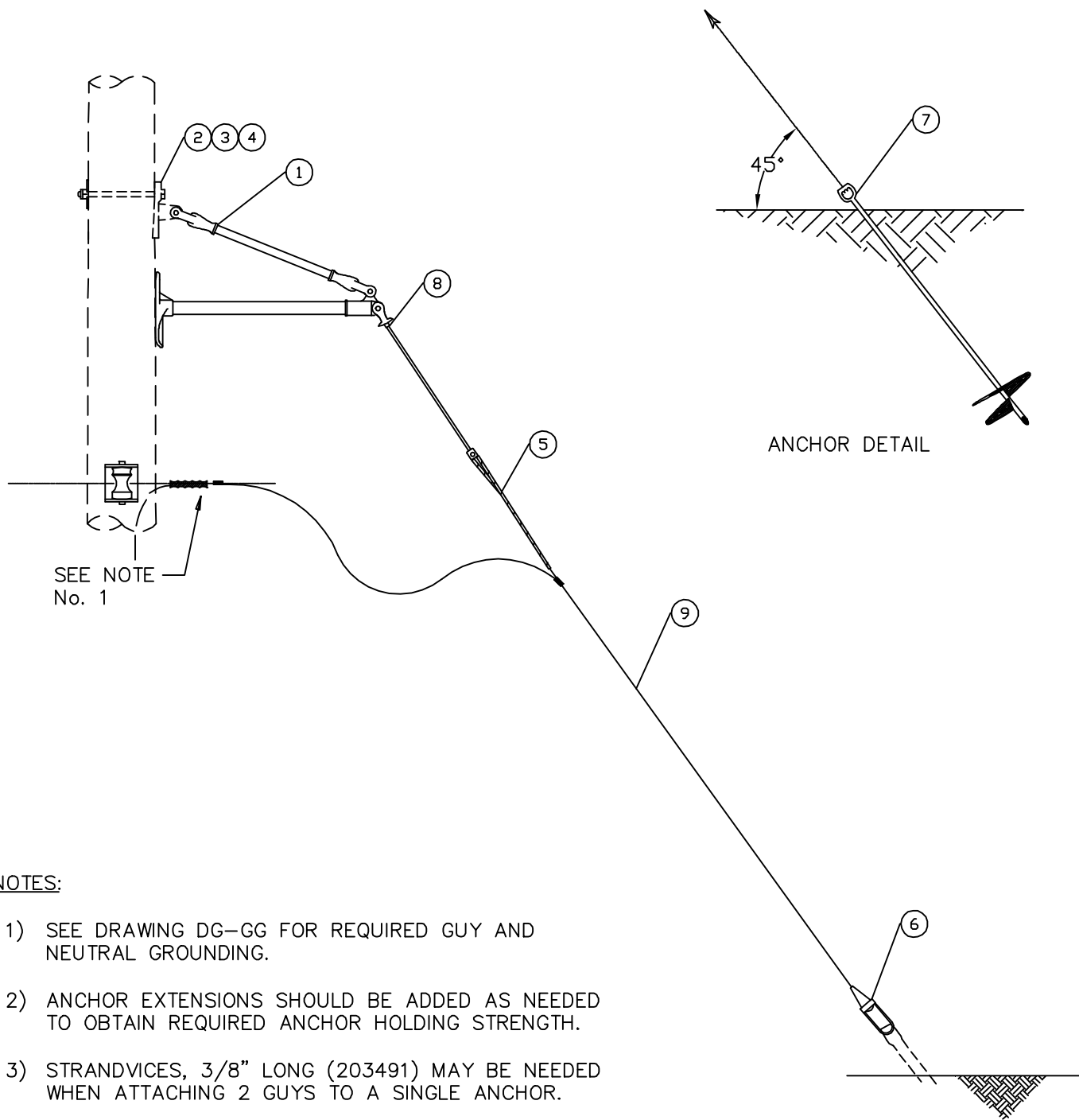


NOTES:

- 1) NEUTRAL SHALL BE GROUNDED AT EVERY TRANSFORMER LOCATION AND ADDITIONAL POINTS TO TOTAL NOT LESS THAN 4 GROUNDS PER MILE. (TYPICALLY 1 GROUND EVERY 4 POLES)
- 2) WHEN MULTIPLE GUYS ARE PRESENT, GUYS WILL BE TIED TOGETHER USING THE LAST GUY TO GROUND TO THE NEUTRAL. ADD WIRE AND SQUEEZONS AS NEEDED.
- 3) SEE DRAWING DM-9 FOR DRIVEN GROUND ROD GROUNDING ASSEMBLY.



DWG. REF.	QTY		LIST OF MATERIALS		GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA				
	DG	DN	DESCRIPTION	STOCK #	DISTRIBUTION GUY AND NEUTRAL GROUNDING GUIDE				
1	2	1	SQUEEZONS, #2	203050					
2	*	*	WIRE, #4 SOFT DRAWN COPPER (ft)	204490					
					DWN. JLS		DATE: 08/12/19		DWG. NO. DG-GG
					CKD. KW		APPD. KW		
					SCALE: N.T.S.				DN-GG
					DATE	DATE	REVISION		
* As Required									



NOTES:

- 1) SEE DRAWING DG-GG FOR REQUIRED GUY AND NEUTRAL GROUNDING.
- 2) ANCHOR EXTENSIONS SHOULD BE ADDED AS NEEDED TO OBTAIN REQUIRED ANCHOR HOLDING STRENGTH.
- 3) STRANDVICES, 3/8" LONG (203491) MAY BE NEEDED WHEN ATTACHING 2 GUY TO A SINGLE ANCHOR.

DWG. REF.	QTY		LIST OF MATERIALS	STOCK #
	12	14		
1	1	1	GUY, FIBERGLASS SIDEWALK	207420
2	1	1	PLATES, P-345 GUY	203410
3	1	-	BOLTS, 3/4" X 12" MACHINE	202230
3	-	1	BOLTS, 3/4" X 14" MACHINE	202240
4	1	1	WASHERS, 3 X 3 CURVED	204450
5	1	1	GRIPS, 3/8" PREFORM GUY GDE-2107	207540
6	1	1	STRANDVICES, 3/8"	203490
7	1	1	ANCHOR, 10" SCREW	203980
8	*	*	ISOLATORS, STRAIN X REQUIRED LENGTH	-
9	*	*	WIRE, 3/8" GUY	204470
	1	1	GUARD, YELLOW GUY	208690
* QUANTITY DEPENDS ON POLE HEIGHT & CONDUCTOR CLEARANCE				

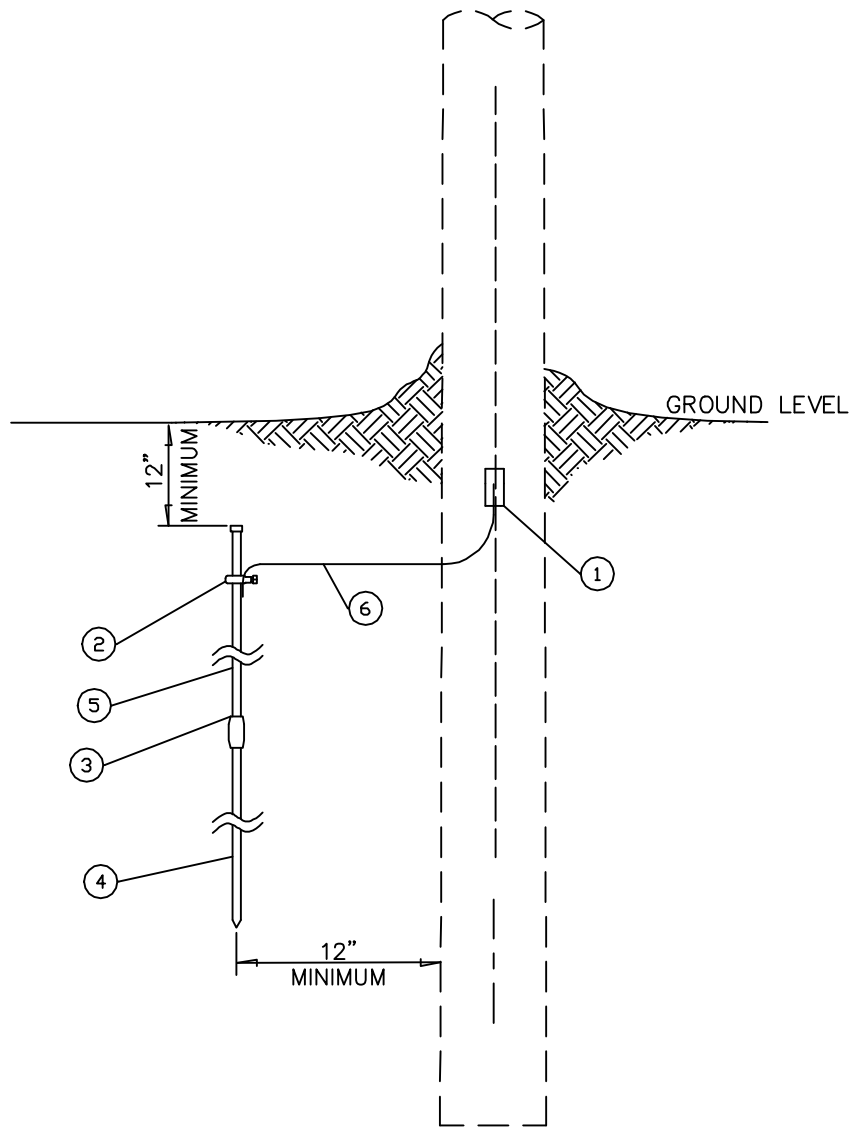


GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA

DISTRIBUTION SIDEWALK GUY


DWN. JLS	DATE: 08/28/19
CKD. KW	APPD. KW
SCALE: N.T.S.	
DATE	DATE
	REVISION

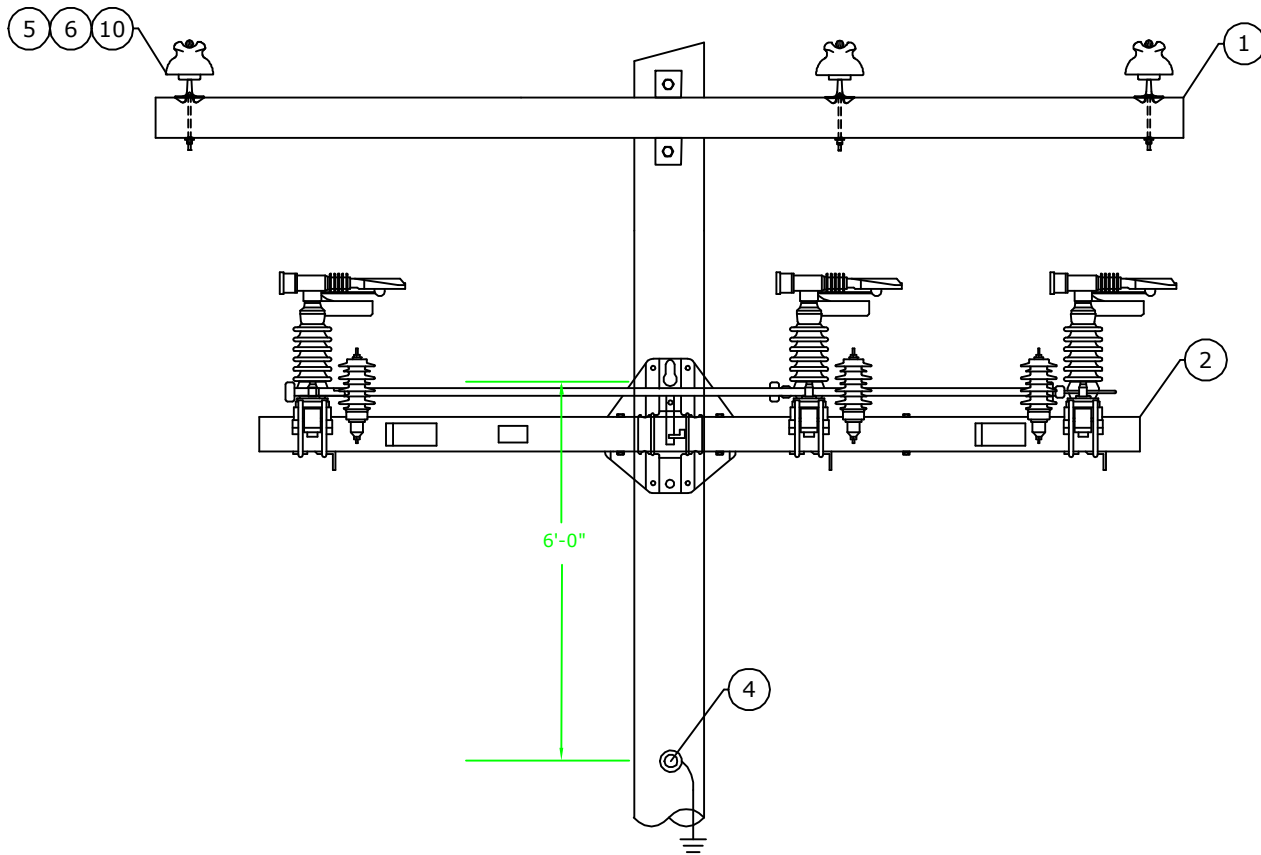
DWG. NO.
SWG-12
SWG-14



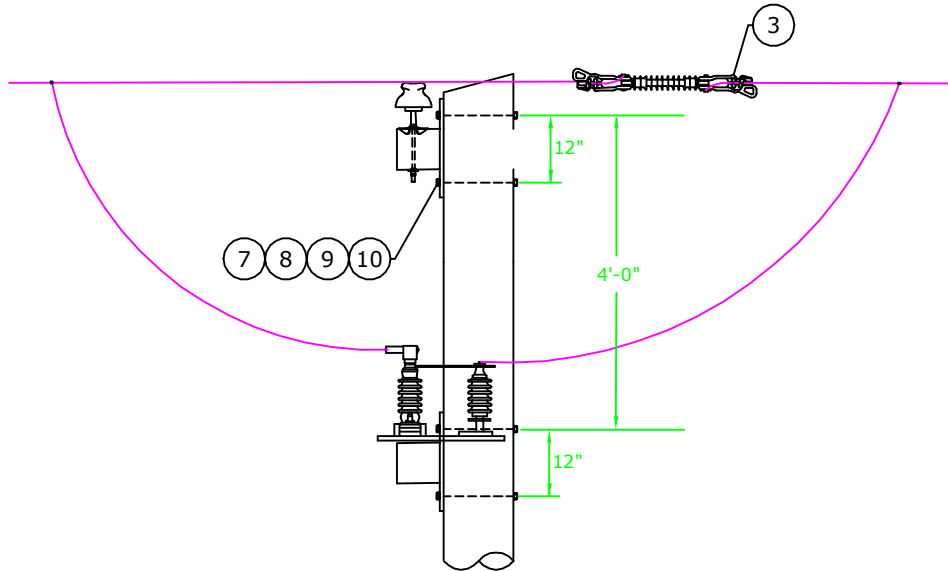
NOTES:

- 1) MAXIMUM GROUND RESISTANCE READING SHALL BE 25 OHMS. IF THE CLAMP-ON RESISTANCE MEASUREMENT IS USED, THE GROUND ROD SHALL BE INSTALLED AND TEMPORARILY BONDED UNTIL THE GROUND RESISTANCE READING IS TAKEN.
- 2) ADDITIONAL ROD SECTIONS SHALL BE ADDED AS NECESSARY TO REDUCE RESISTANCE TO 25 OHMS MAXIMUM. HORIZONTAL SPACING BETWEEN ADDITIONAL RODS SHALL BE NO LESS THAN 6 FEET.
- 3) GROUND ROD SHALL BE INSTALLED IN UNDISTURBED SOIL.

DWG. REF.	QTY	LIST OF MATERIALS		GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA				
		DESCRIPTION	STOCK #	 DRIVEN GROUND ROD GROUNDING ASSEMBLY - WOOD POLE				
1	*	SQUEEZONS, YC4C4 COPPER	206240					DWN. JLS DATE: 08/13/19 CKD. KW APPD. KW SCALE: N.T.S. DATE DATE REVISION
2	1	GROUND - ROD CLAMP, 5/8"	NS					
3	1	GROUND - ROD COUPLING, 5/8"	NS					
4	1	GROUND - ROD, 5/8" x 12'-0"	207440					
5	1	GROUND - ROD, 5/8" x 8'-0"	203850					
6	*	GROUND - WIRE, #4 (ft.)	204490					
								DWG. NO. DM-9
		* - As Required						




FRONT VIEW

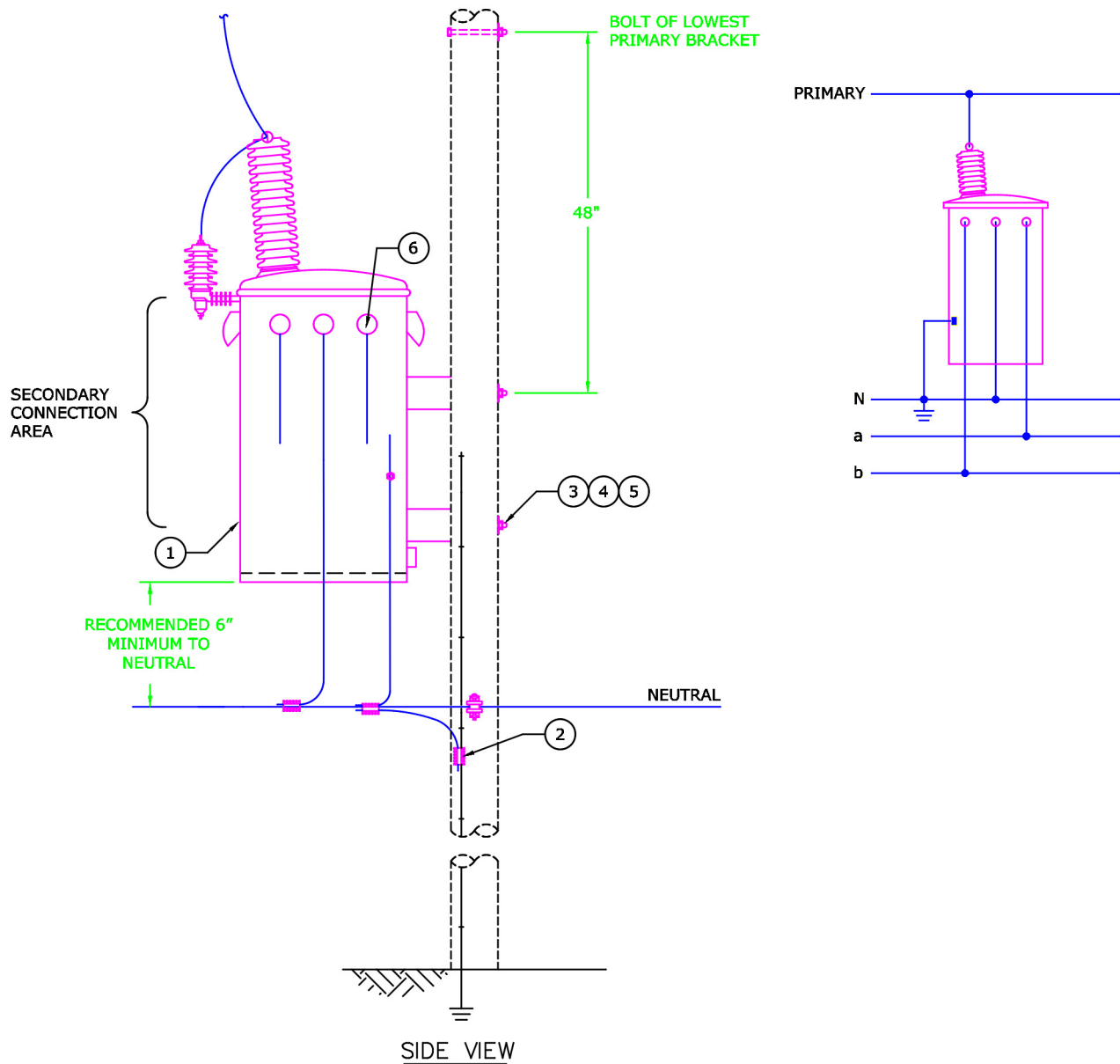


SIDE VIEW

NOTES:


- 1) FIBERGLASS CROSSARM BRACE NOT SHOWN IN DRAWING.

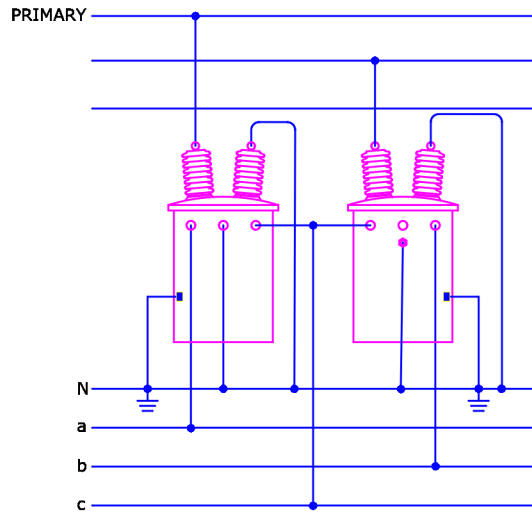
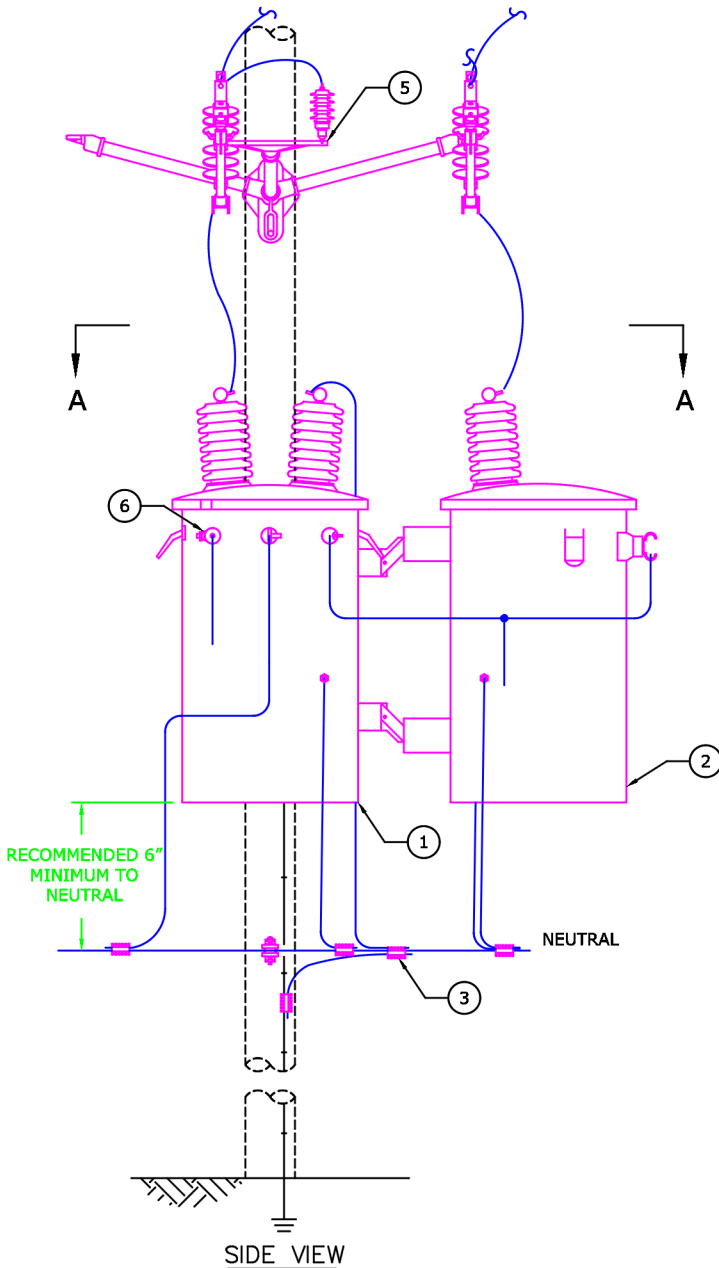
DWG. REF.	LIST OF MATERIALS				GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA															
	ea.	DESCRIPTION	ITEM	DET.																
1	1	10' DISTRIBUTION CROSSARM DE	-						HORIZONTAL GANG SWITCH DETAIL											
2	1	15 KV HORIZONTAL GANG SWITCH	-																	
3	3	DEAD END ASSEMBLY, SECONDARY	-		<table border="1"> <tr> <td>DWN. JLS</td> <td>DATE: 11/23/21</td> <td rowspan="2">DWG. NO.</td> </tr> <tr> <td>CKD. KW</td> <td>APPD. KW</td> </tr> <tr> <td>SCALE: N.T.S.</td> <td>PAGE 1 OF 1</td> <td></td> </tr> <tr> <td>DATE</td> <td>REVISION</td> <td>DATE</td> <td>REVISION</td> </tr> </table>				DWN. JLS	DATE: 11/23/21	DWG. NO.	CKD. KW	APPD. KW	SCALE: N.T.S.	PAGE 1 OF 1		DATE	REVISION	DATE	REVISION
DWN. JLS	DATE: 11/23/21	DWG. NO.																		
CKD. KW	APPD. KW																			
SCALE: N.T.S.	PAGE 1 OF 1																			
DATE	REVISION	DATE	REVISION																	
4	1	NEUTRAL ASSEMBLY, DEADEND	-	TM-4E																
5	3	25 KV PIN INSULATOR	-																	
6	3	25 KV PINS, LONG SHANK CROSS	-																	
7	4	BOLT, MACHINE 5/8" x 20"	-																	
8	4	SPRING LOCK WASHER, 5/8"	-																	
9	4	NUT, 5/8"	-																	
10	7	WASHER, SQUARE, 3 x 3 x 1/4" w/ 13/16"	-																	



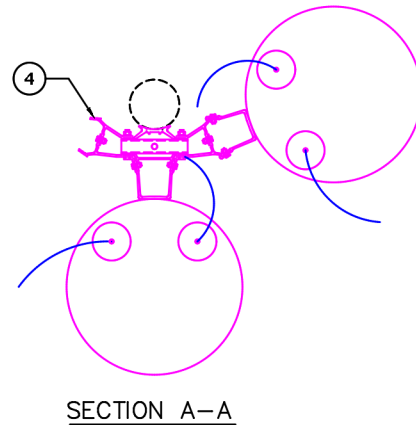
NOTES:

1. BOND TRANSFORMER NEUTRAL AND TRANSFORMER GROUND TO SYSTEM NEUTRAL AND SYSTEM GROUND.
2. CSP TRANSFORMERS MAY BE MOUNTED AT 45° TO THE LINE.
3. PLACE BIRD GUARDS AND USE INSULATED CONDUCTOR ON ALL PRIMARY LEADS.
4. GROUNDS ARE TO STOP AT THE NEUTRAL POSITION EXCEPT TO RISE TO A LIGHTNING ARRESTER OR TRANSFORMER WHEN APPLICABLE.
5. SEE DRAWING MG-11EC FOR CONDUCTOR SIZE.
6. CURRENT LIMITING FUSES AS REQUIRED. SEE DWG. M5-9CLEC.
7. NO DISCONNECT NEEDED ON A SINGLE PHASE TRANSFORMER.
8. TRANSFORMER SHALL BE INSTALLED SO THAT SECONDARY BUSHINGS ARE ON ROAD SIDE.
9. X2 GROUND WIRE SHALL BE #2 BARE COPPER & TANK GROUNDS SHALL BE #6 BARE COPPER.

DWG REF	QTY	LIST OF MATERIALS		GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA					
		DESCRIPTION	STOCK #	SINGLE-PHASE CSP TRANSFORMER 240/120 VOLT					
1	1	TRANSFORMER, REQUIRED SIZE	-		DWN.	JLS	DATE:	11/29/21	DWG. NO. G105EC
2	-	CONNECTOR	-		CKD.	KW	APPD.		
3	2	BOLT, MACHINE	-		SCALE:	NONE			
4	2	WASHER, SQUARE FLAT, 2 1/4"	-		DATE	REVISION	DATE	REVISION	
5	2	WASHER, SQUARE, FLAT	-						
6	-	UB-4 OR UB-6 AS NEEDED	-						
7	1	CLAMP (NOT SHOWN)	-						
8	1	STIRRUP, SIZE AS REQ. (NOT SHOWN)	-						



WARNING
DO NOT USE CSP
TRANSFORMERS IN
THIS CONFIGURATION.

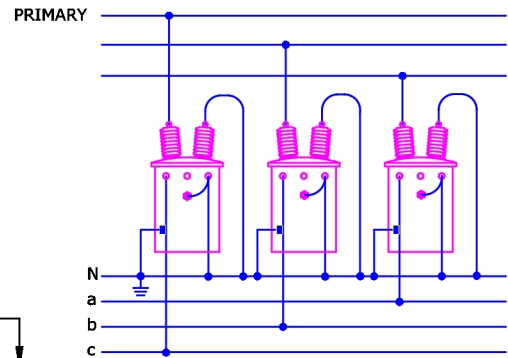
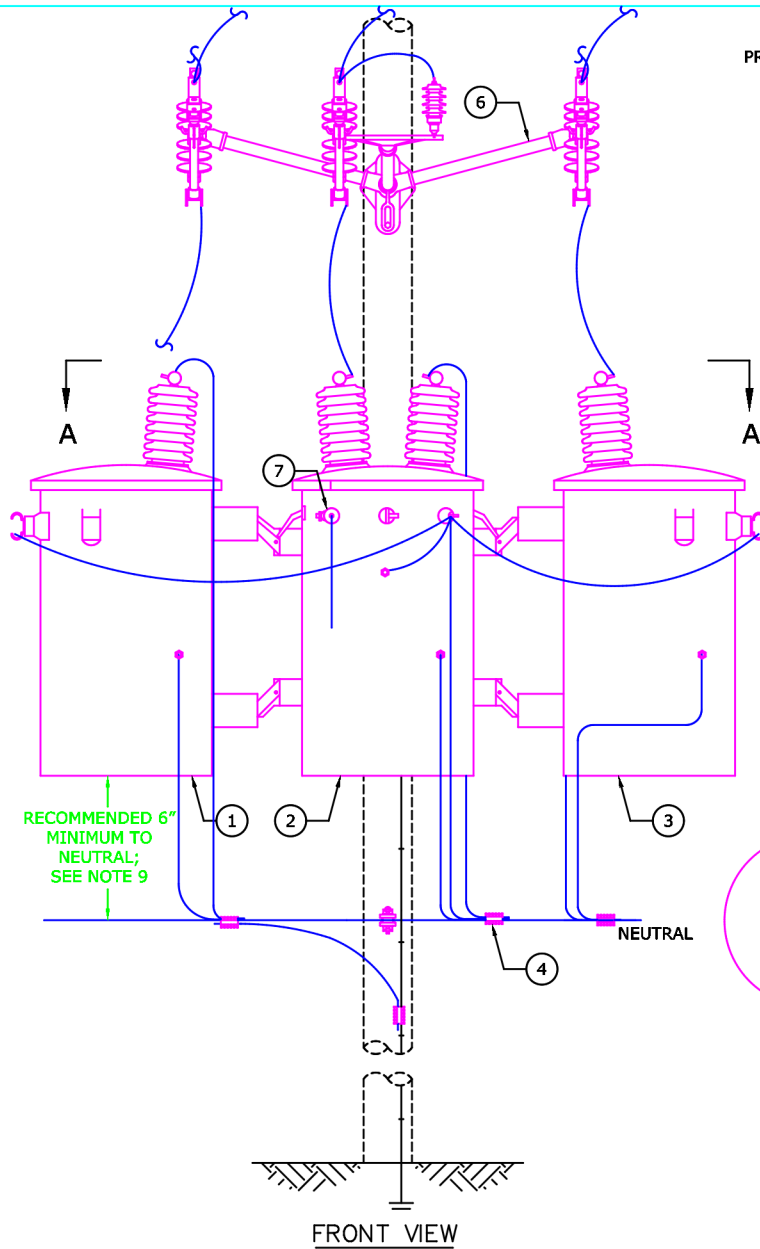


NOTES:

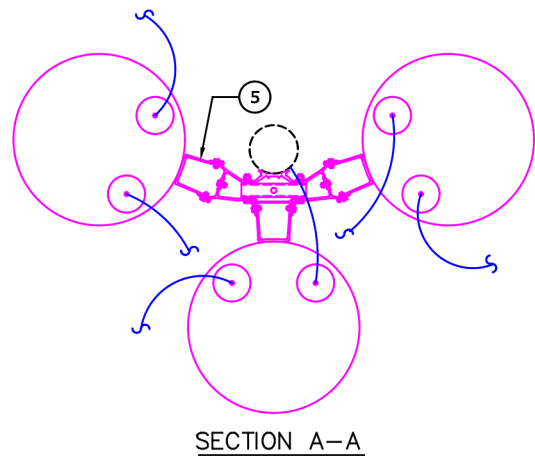
1. BOND TRANSFORMER NEUTRAL AND TRANSFORMER GROUND TO SYSTEM NEUTRAL AND SYSTEM GROUND.
2. PLACE BIRD GUARDS AND USE INSULATED CONDUCTOR ON ALL PRIMARY LEADS.
3. GROUNDS ARE TO STOP AT THE NEUTRAL POSITION EXCEPT TO RISE TO A LIGHTNING ARRESTER OR TRANSFORMER WHEN APPLICABLE.
4. SEE DRAWING MG-11EC FOR CONDUCTOR SIZE.
5. CURRENT LIMITING FUSES AS REQUIRED. SEE DWG. M5-9CLEC.
6. X2 GROUND WIRE SHALL BE #2 BARE COPPER & TANK GROUNDS SHALL BE #6 BARE COPPER.
7. H2 GROUND WIRE SHALL BE #4 INSULATED COPPER.
8. APPARATUS BRACKET AND NEUTRAL HEIGHT MAY VARY DEPENDING ON SIZE OF TRANSFORMER BANK.

DWG REF	QTY	LIST OF MATERIALS		GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA				
		DESCRIPTION	STOCK #	TWO TRANSFORMER, 240/120 VOLT 3-PHASE, 4 WIRE DELTA BANK				
1	1	TRANSFORMER, REQUIRED SIZE	-	 Greenville Utilities	DWN.	JLS	DATE:	11/29/21
2	1	TRANSFORMER, REQUIRED SIZE	-		CKD.	KW	APPD.	
3	-	CONNECTOR	-		SCALE:	NONE		
4	1	BRACKET, CLUSTER MOUNT	-		DATE	REVISION	DATE	REVISION
5	1	3-PHASE APPARATUS BRACKET	-					
6	-	UB-4 OR UB-6 AS NEEDED	-					
7	2	CLAMP (NOT SHOWN)	-					
8	2	STIRRUP, SIZE AS REQ. (NOT SHOWN)	-					

DWG. NO.
G210EC




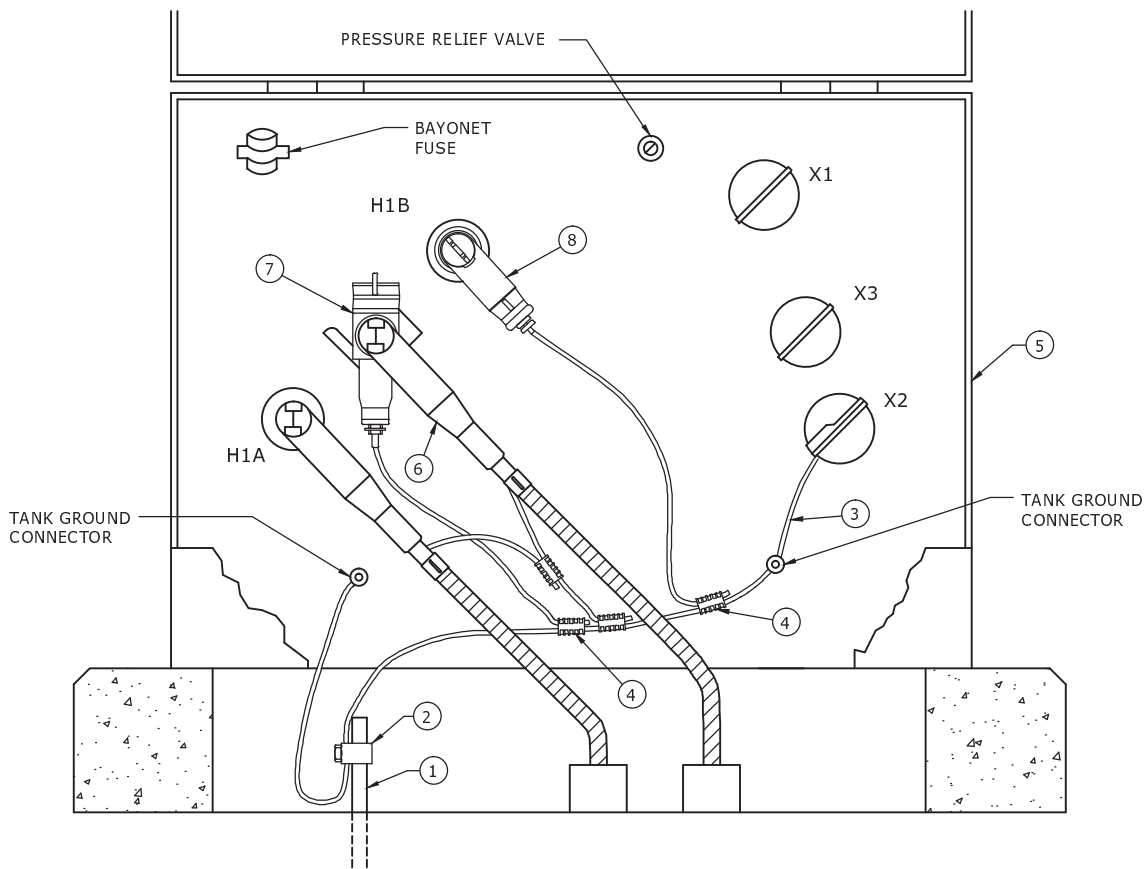
WARNING
DO NOT USE CSP
TRANSFORMERS IN
THIS CONFIGURATION.



NOTES:

1. BOND TRANSFORMER NEUTRAL AND TRANSFORMER GROUND TO SYSTEM NEUTRAL AND SYSTEM GROUND.
2. PLACE BIRD GUARDS AND USE INSULATED CONDUCTOR ON ALL PRIMARY LEADS.
3. GROUNDS ARE TO STOP AT THE NEUTRAL POSITION EXCEPT TO RISE TO A LIGHTNING ARRESTER OR TRANSFORMER WHEN APPLICABLE.
4. SEE DRAWING MG-11EC FOR CONDUCTOR SIZE.
5. CURRENT LIMITING FUSES AS REQUIRED. SEE DWG. M5-9CLEC.
6. X2 GROUND WIRE SHALL BE #2 BARE COPPER & TANK GROUNDS SHALL BE #6 BARE COPPER.
7. H2 GROUND WIRE SHALL BE #4 INSULATED COPPER.
8. APPARATUS BRACKET AND NEUTRAL HEIGHT MAY VARY DEPENDING ON SIZE OF TRANSFORMER BANK.

DWG REF	QTY	LIST OF MATERIALS		GREENVILLE UTILITIES COMMISSION GREENVILLE, NORTH CAROLINA				
		DESCRIPTION	STOCK #					
1	1	TRANSFORMER, REQUIRED SIZE	-		THREE TRANSFORMER, 208/120 VOLT 3-PHASE, 4 WIRE WYE BANK			DWG. NO. G312EC
2	1	TRANSFORMER, REQUIRED SIZE	-					
3	1	TRANSFORMER, REQUIRED SIZE	-					
4	-	CONNECTOR	-					
5	1	BRACKET, CLUSTER MOUNT	-	DWN.	JLS	DATE:	11/29/21	
6	1	3-PHASE APPARATUS BRACKET	-	CKD.	KW	APPD.		
7	-	UB-4 OR UB-6 AS NEEDED	-	SCALE:	NONE			
8	3	CLAMP (NOT SHOWN)	-	DATE	REVISION	DATE	REVISION	
9	3	STIRRUP, SIZE AS REQ. (NOT SHOWN)	-					



NO.	INVENTORY NO.	QUANTITY	DESCRIPTION
1	-	1	ROD, GROUND, 5/8" x 8', COPPER CLAD
2	-	1	CLAMP, GROUNDING ROD
3	-	-	JUMPERS, LEADS, AS REQ'D.
4	-	X	CONNECTORS, AS REQ'D
5	-	1	XFMR, PAD MOUNTED W/ 2 PRI. LOAD BREAK BUSHINGS & INT. FUSE
6	-	2	ELBOW CONNECTOR, LOAD BREAK
7	-	1	ARRESTER, PARKING STAND
8	-	1	ARRESTER, SURGE

NOTES:

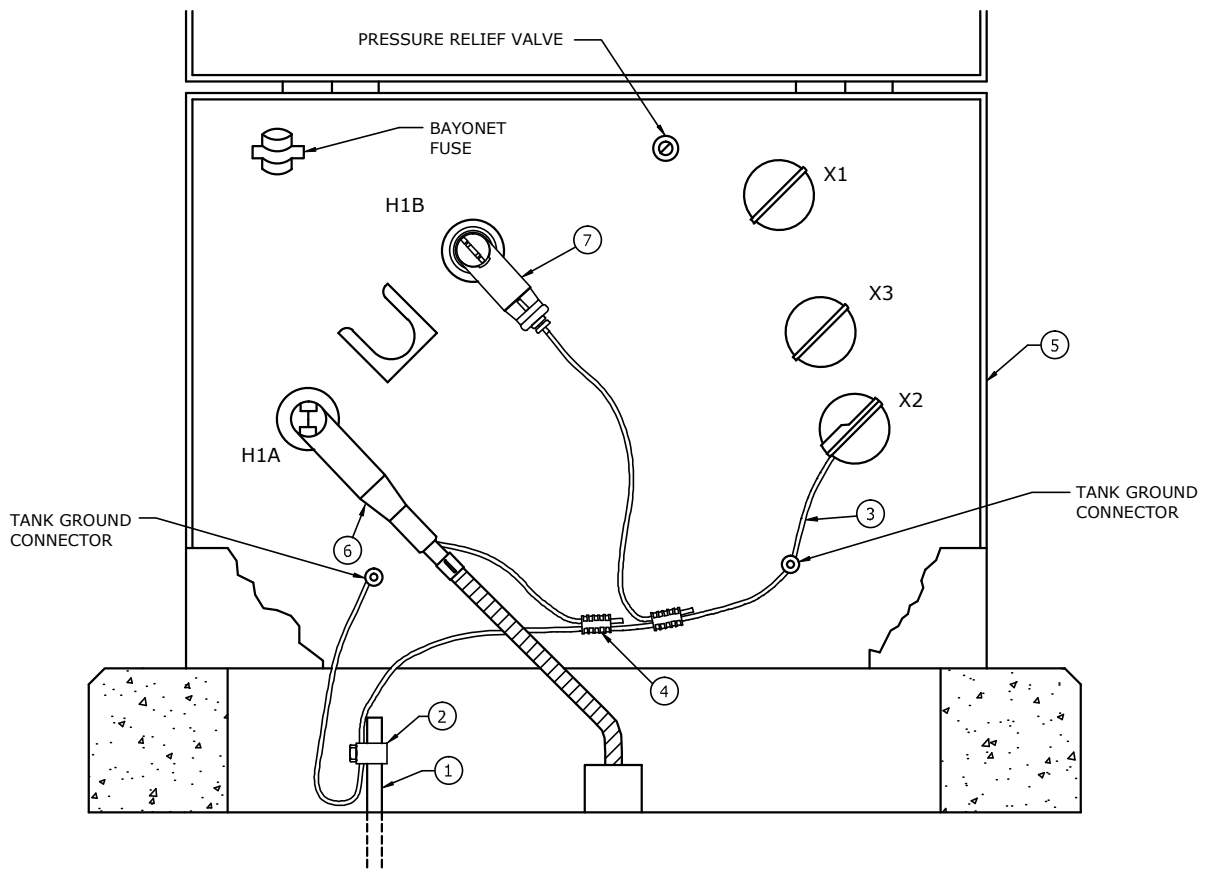
1. IN GROUNDING THE CONCENTRIC NEUTRAL SLACK IS TO BE ALLOWED FOR OPERATING THE ELBOW CONNECTOR.

3			
2			
1			
0	5/2/07	CADD GRAPHICS	OST
REVISED	BY	APPR.	

PRIMARY CONNECTIONS,
OPEN POINT,
PAD-MOUNTED TRANSFORMER

ELECTRICITIES
OF NORTH CAROLINA, INC.

SCALE 1"=1'-0" DWG. UG5-1EC



NO.	INVENTORY NO.	QUANTITY	DESCRIPTION
1	-	1	ROD, GROUND, 5/8" x 8', COPPER CLAD
2	-	1	CLAMP, GROUNDING ROD
3	-	-	JUMPERS, LEADS, AS REQ'D.
4	-	X	CONNECTORS, AS REQ'D
5	-	1	XFMR, PAD MOUNTED W/ 2 PRI. LOAD BREAK BUSHINGS & INT. FUSE
6	-	1	ELBOW CONNECTOR, LOAD BREAK
7	-	1	ARRESTER, SURGE

NOTES:

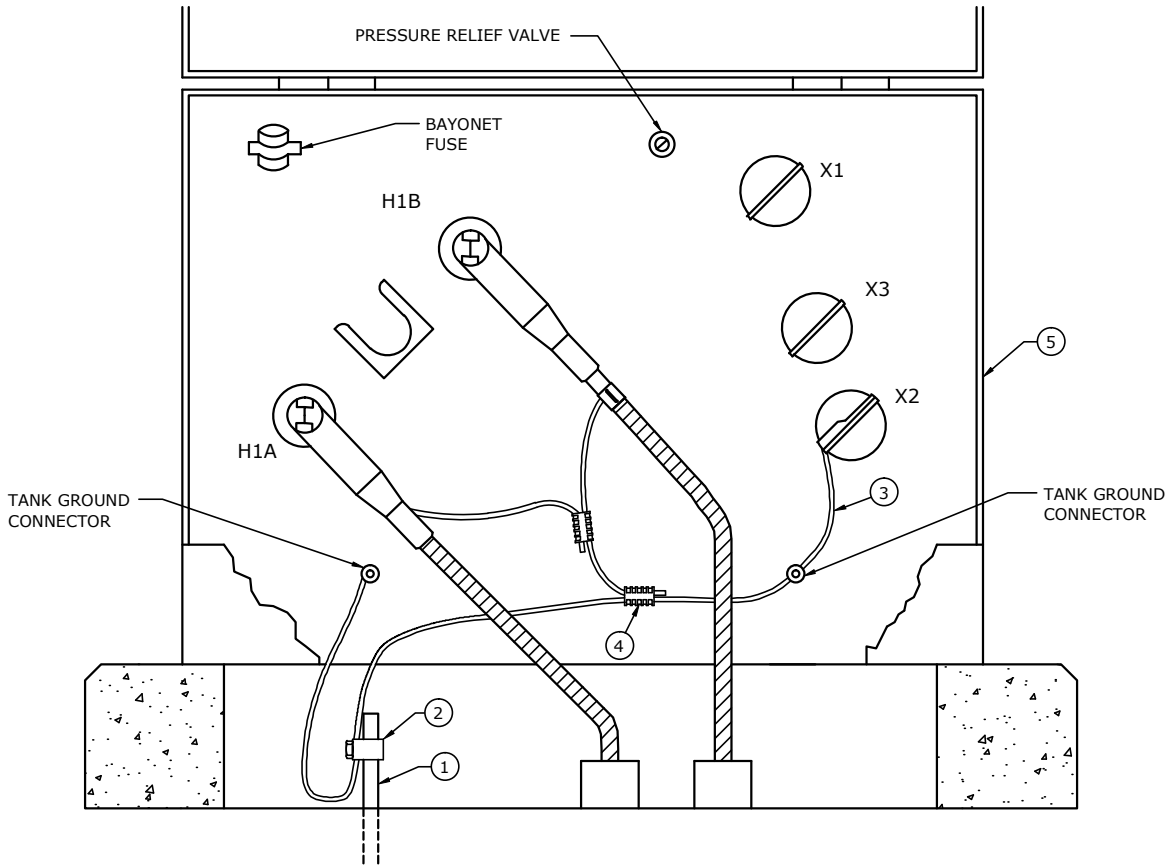
1. IN GROUNDING THE CONCENTRIC NEUTRAL SLACK IS TO BE ALLOWED FOR OPERATING THE ELBOW CONNECTOR.

3			
2			
1			
0	5/2/07	CADD GRAPHICS	OST
REVISED	BY	APPR.	

PRIMARY CONNECTIONS,
RADIAL FEED,
PAD-MOUNTED TRANSFORMER

ELECTRICITIES
OF NORTH CAROLINA, INC.

SCALE 1"=1'-0" DWG. UG5-2EC



NO.	INVENTORY NO.	QUANTITY	DESCRIPTION
1	-	1	ROD, GROUND, 5/8" x 8', COPPER CLAD
2	-	1	CLAMP, GROUNDING ROD
3	-	-	JUMPERS, LEADS, AS REQ'D.
4	-	X	CONNECTOR, AS REQ'D
5	-	1	XFMR, PAD MOUNTED W/ 2 PRI. LOAD BREAK BUSHINGS & INT. FUSE

NOTES:

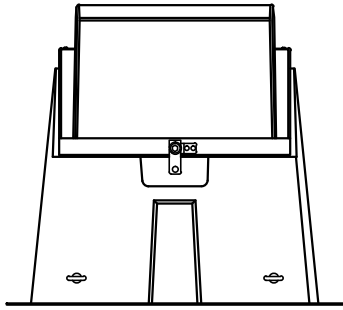
1. WHEN CONNECTING CONCENTRIC NEUTRALS TO TRANSFORMER GROUND, LEAVE AN ADEQUATE LENGTH SO ELBOWS CAN BE REMOVED WITHOUT DISCONNECTING NEUTRALS FROM GROUND.

3			
2			
1			
0	5/2/07	CADD GRAPHICS	OST
REVISED	BY	APPR.	

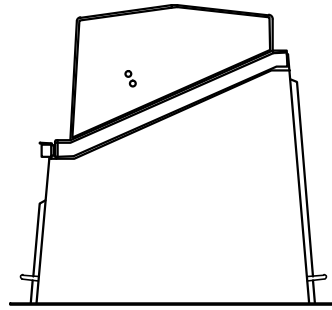
PRIMARY CONNECTIONS,
SINGLE PHASE LOOP FEED,
PAD-MOUNTED TRANSFORMER

ELECTRICITIES
OF NORTH CAROLINA, INC.

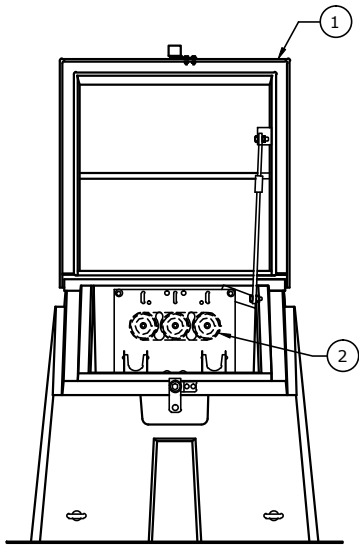
SCALE 1"=1'-0" DWG. UG5-3EC



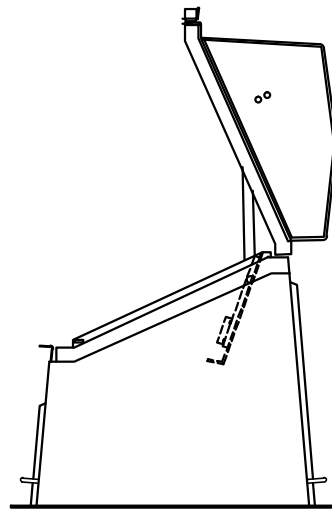
FRONT VIEW



SIDE VIEW



FRONT VIEW
OPEN COVER



SIDE VIEW
OPEN COVER

NO.	INVENTORY NO.	QUANTITY	DESCRIPTION
1	-	1	PRIMARY JUNCTION ENCLOSURE, SINGLE-PHASE
2	-	1	JUNCTIONS, POSITIONS AS REQ'D.

NOTES:

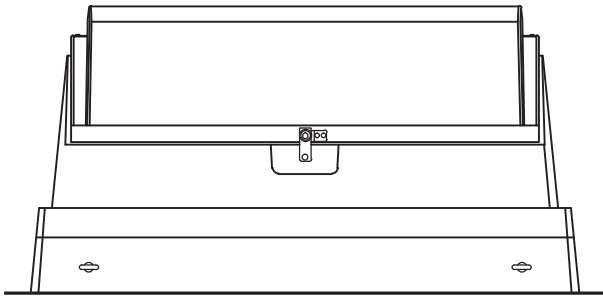
1. SHALL BE INSTALLED WITH A DRIVEN GROUND ROD.

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1			
0	5/2/07	CADD GRAPHICS	OST
REVISED	BY	APPR.	

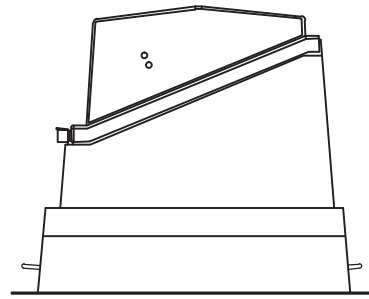
SINGLE-PHASE FIBERGLASS
PRIMARY JUNCTION ENCLOSURE

ELECTRICITIES
OF NORTH CAROLINA, INC.

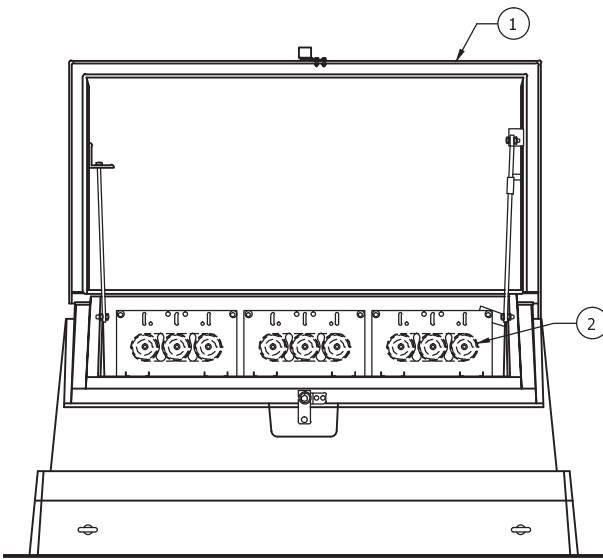
SCALE: 1/2"=1'-0"
DWG. UM1-3EC



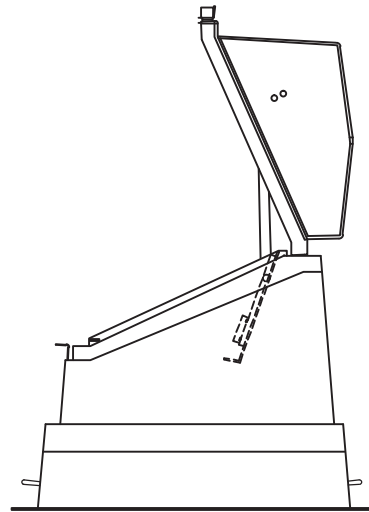
FRONT VIEW



SIDE VIEW



FRONT VIEW
OPEN COVER



SIDE VIEW
OPEN COVER

NO.	INVENTORY NO.	QUANTITY	DESCRIPTION
1	-	1	PRIMARY JUNCTION ENCLOSURE, THREE-PHASE
2	-	3	JUNCTIONS, POSITIONS AS REQ'D.

NOTES:

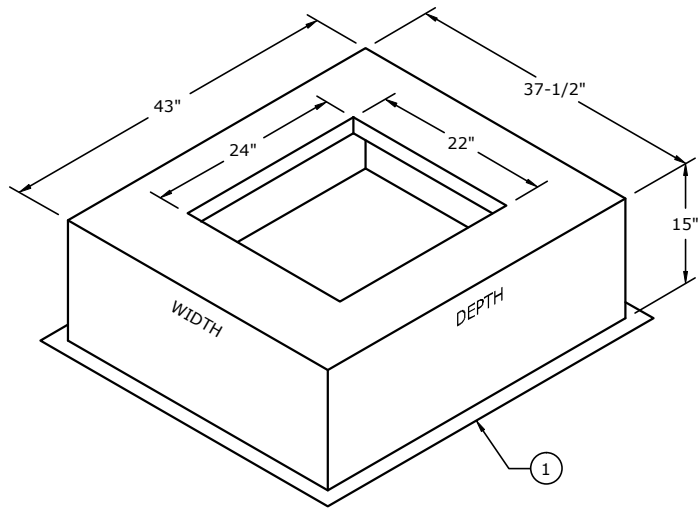
1. SHALL BE INSTALLED WITH A DRIVEN GROUND ROD.

3			
2			
1			
0	5/2/07	CADD GRAPHICS	OST
REVISED	BY	APPR.	

THREE-PHASE FIBERGLASS
PRIMARY JUNCTION ENCLOSURE

ELECTRICITIES
OF NORTH CAROLINA, INC.

SCALE: 1/2" = 1'-0"
DWG. NO.: UM2-2EC



NO.	INVENTORY NO.	QUANTITY	DESCRIPTION
1	-	1	FIBERGLASS TRANSFORMER BOX PAD

NOTES:

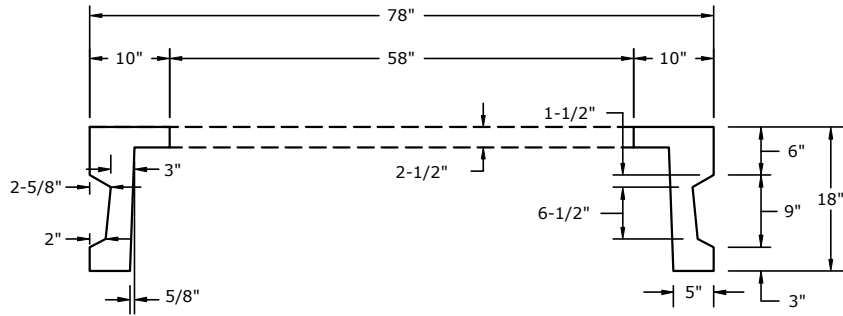
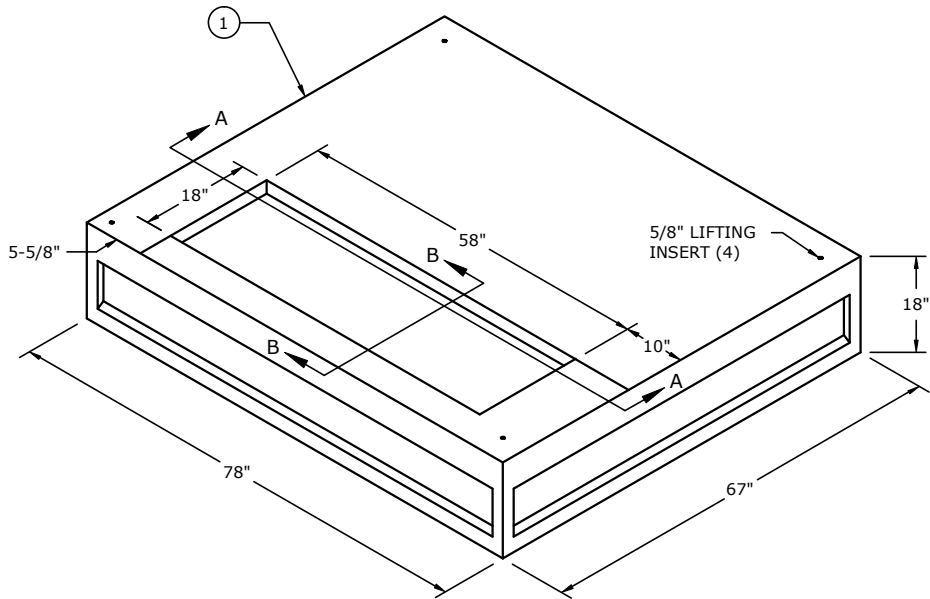
1. SHALL BE INSTALLED WITH DRIVEN GROUND RODS.
2. DRAWING FOR REPRESENTATION ONLY. ACTUAL DIMENSIONS MAY VARY WITH MANUFACTURER.

3			
2			
1			
0	5/2/07	CADD GRAPHICS	OST
REVISED	BY	APPR.	

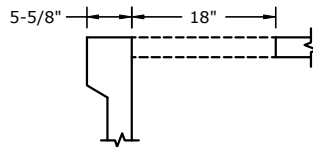
FIBERGLASS TRANSFORMER BOX PAD
SINGLE-PHASE

ELECTRICITIES
OF NORTH CAROLINA, INC.

SCALE 1/2"=1'-0"	DWG. UP1-2EC
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SECTION 'A-A'



SECTION 'B-B'

NO.	INVENTORY NO.	QUANTITY	DESCRIPTION
1	-	1	CONCRETE BOX PAD, 78" X 67" X 18"

NOTES:

1. SHALL BE INSTALLED WITH A DRIVEN GROUND ROD.
2. DRAWING FOR REPRESENTATION ONLY. ACTUAL DIMENSIONS MAY VARY WITH MANUFACTURER.

3			
2			
1			
0	5/2/07	CADD GRAPHICS	OST
REVISED	BY	APPR.	

CONCRETE BOX PAD
FOR THREE-PHASE TRANSFORMER
78" X 67" X 18"

ELECTRICITIES
OF NORTH CAROLINA, INC.

SCALE: 1/2" = 1'-6"
DWG. UP1-4EC