Request for Quotation

Date: 11/05/2026

Quotation Number: 9521

Specification/Quotation Documents For: Steel Poles

RFQ Due Date: 11/19/2026 @ 02:00 pm

To avoid any delay, we encourage you to send responses ahead of the deadline. Responses will not be opened until the stated date and time.

Section 1 – Invitation to Bidders

Sealed bids will be received by BrightRidge until due date and time, then bids will be opened and publicly read. Bidders may participate in the public bid reading by contacting BrightRidge Purchasing at least two hours prior the bid opening time stated on the specific bid. Bidders making this request will receive a conference call number and a participant code. BrightRidge Purchasing contact information: purchasing@brightridge.com or call 423-952-5161.

All bids must be delivered at the vendor's sole risk as shown in this request for quotation as per Section 2 Instructions to Bidders. BrightRidge is not obligated to accept quotations received after the date and time stated.

Exceptions, if any, will be considered in the quotation evaluation in determining the successful vendor. Vendor must provide supporting documentation with its quotation for any exceptions.

BrightRidge reserves the right to reject any or all quotations, to reject any bid that contains prices for individual items or services that are inconsistent or unrealistic when compared to other prices in the same or other bids, to waive any and all informalities and/or irregularities in the quotation, to negotiate and/or renegotiate with any vendor the terms of its quotation, and to accept any quotation which in its opinion may be in the best interest of BrightRidge. This Request does not commit BrightRidge to pay any costs incurred in the preparation of a proposal or to procure or to contract for service. BrightRidge reserves the sole discretion to withdraw this Request in its entirety at any time without prior notice.

Information provided in this Request is intended solely to assist the respondent in preparing a Quotation. To the best of BrightRidge's knowledge, the information provided is accurate, however, there is no warranty expressed or implied.

Quotations may be held by BrightRidge for a period not to exceed sixty (60) days from the due date of the quotations for the purpose of evaluating the quotations or investigating the qualifications of the vendors, prior to awarding of the order. All quotations shall remain effective for at least sixty (60) days after the due date.

Each vendor's quotation shall constitute an offer to sell the goods or services sought by this Request for Quotation. The award shall be made by execution of a contract mutually agreed upon by both parties.

BrightRidge is a trade name of the Johnson City Energy Authority.

Questions about the integrity or fairness of the sealed bid process contact:
Purchasing at 423-952-5161 or email purchasing@brightridge.com

Specification questions contact:
Ken Edgar (423)952-5030 or email kedgar@brightridge.com
Wes Cole (423)952-5069 or email wcole@brightridge.com
Mike Stovall (423)952-5085 or email mstovall@brightridge.com

Section 2 – Instructions to Bidders

Each Bidder shall carefully examine all specifications, drawings, and other contract documents to familiarize themselves with all the requirements, terms and conditions thereof. Any information relating to the work furnished by the Owner or others, or failure to make these examinations shall in no way relieve any Bidder from the responsibility of fulfilling all the terms of the contract, if awarded a contract.

No payment will be made for items not set up in the quotation, unless otherwise provided by contract amendment. All Bidders are cautioned that they should include in the prices quoted for the various bid items all necessary allowances for the performance of all work required for the satisfactory completion of the project.

REQUIREMENTS FOR A DIGITAL PROPOSAL/BID SUBMISSION

- **Bids should be clearly identified as:**
  Bid Enclosed and Your Company Name
  BrightRidge Quotation Number: 9521
  Name of the Request: Steel Poles
  Due: 11/19/2026 at 2PM EST

- Send an email with an attached PDF of the digital bid including all required documents listed below to: **SEALEDBIDS@BRIGHTRIDGE.COM.** BrightRidge quotation number should be listed in the email subject line. Documents may be combined and sent as one PDF and cannot exceed 50MB in size. An automatic delivery receipt is sent indicating that the bid email has been delivered to sealedbids@brightridge.com

- Digital Proposal/Bids (hereafter called bids) received after the stated due date and time will be disqualified. BrightRidge will not open the bid submission email or any attachment until the due date and time stated for this sealed bid, this is to maintain the integrity of the sealed bid process

- Send a **SEPARATE EMAIL**, indicating that you have submitted a digital bid also include quotation number in the subject to: **PURCHASING@BRIGHTRIDGE.COM.** **DO NOT ATTACH A COPY OF YOUR BID TO THIS EMAIL!**

- No fax or physically delivered sealed bids will be accepted. **Bids must be digital.** Bidders from small & minority owned businesses needing to make alternative arrangements for physical delivery may call purchasing at 423-952-5161 or 423-952-5000.

Note:
Any bidder that submits a bid to BrightRidge of at least $250,000 or more that provides services, supplies, information technology or construction must certifies that it is not currently engaged in, and will not for the duration of this Agreement engage in, a boycott of Israel as defined by Tenn. Code Ann. §12-4-119.

CHECKLIST FOR REQUIRED PAGES TO INCLUDE FROM BRIGHTRIDGE BID PACKAGE

NOTE: FAILURE TO SUBMIT THESE PAGES WILL RESULT IN DISQUALIFICATION OF BID

- **BrightRidge Request for Quotation Form**
- **Quote must be in same order and unit of measurement requested or bid may be disqualified**
- **Section 3-Quotation Information Form**
- **Specification Exception Form**
- **No Bid Questionnaire – If applicable**
- **Business and Taxpayer Identification or W9 form – for NEW vendors**

Contract
BrightRidge reserves the right to accept or reject any or all bids or portions thereof. Vendors may bid multiple options, unless otherwise stated.

Vendors must complete the BrightRidge Request for Quotation Form, if applicable and included in the request for quotation. As a backup, a vendor may include their company quote form, however, items must be quoted in the same order and in the unit of measure requested on the BrightRidge Request for Quotation form, a no-bid line needs to be included also in the order of our request if not bidding on an item.

Delivery
The price bid will be FOB Johnson City, Tennessee, at the location specified below. The bid price shown will be the full charge, including all applicable taxes, surcharges and other incidental fees, shipping charges included.

Delivery Site:
BrightRidge
Shipping/Receiving Entrance
2610 Boones Creek Rd
Johnson City, TN 37615

Invoicing
Unless otherwise stated, submit invoices upon delivery or pickup to ap@brightridge.com. The invoice must include an itemization of all items, supplies, repairs, or labor furnished, including unit list price, net price, extensions, and total amount due.

Payment
Unless otherwise stated, payment will be made within thirty (30) days of the completion of delivery of all items or services in acceptable condition to BrightRidge and receipt of invoice, whichever is later.

Taxes and Fees
BrightRidge is exempt from all Sales and Federal Excise Taxes please quote less these taxes.

BrightRidge is not responsible for financial or legal obligations of the bidders that may include bond premiums, fees, insurance, licenses, permits, taxes, tariffs, or other costs of compliance, unless agreed to in writing by BrightRidge. Taxes may include federal, state, or local taxes or levies. Particular attention should be given to bids that provide construction, installation, and maintenance services that utilize the materials and supplies purchased by BrightRidge. BrightRidge does not pay Tennessee sales and use tax when materials, supplies, and equipment are purchased. If the Bidder wants information about the value of the items that will be used, contact BrightRidge Purchasing. Make a note of Tennessee Code Annotated 67-6-209 section (b) and (e).

If the Bidder wishes to recoup obligations they owe as a result of work performed for BrightRidge, the Bidder must include them in the quotation price. Otherwise, the Bidder should not expect additional payment from BrightRidge for these obligations.

Equal Employment Opportunity Clause
To the extent not exempt therefrom, the vendor/subcontractor designated herein agrees to in all respects comply with and abide by the provisions of Executive Order 11246, Section 503 of the Rehabilitation Act of 1973, and the Vietnam Era Veterans' Readjustment Assistance Act of 1974, each as amended, and applicable implementing Regulations, including the Equal Employment Opportunity Clause referred to at 41 C.F.R. § 60-1.4, 41 C.F.R. § 60-741.5, and 41 C.F.R. § 60-250.5, as well as those otherwise appearing at 41 C.F.R. § 60-1, et seq., 41 C.F.R. § 60-741.1, et seq., and 41 C.F.R. § 60-250.1, et seq., each as amended.

Section 3 – Quotation Information

The successful contractor agrees to indemnify, investigate, protect, defend, and save harmless BrightRidge, its officials, officers, agents, and employees from any and all third-party claims and losses accruing or resulting from bodily injury or damage to property caused by the successful contractor in performance of this contract.

The successful contractor also agrees to indemnify, investigate, protect, defend, and save harmless BrightRidge, its officials, officers, agents, and employees from any and all third-party claims and losses accruing or resulting from bodily injury or damage to property caused by the successful contractor's sub-contractors, suppliers, laborers, and any other person, firm, or corporation furnishing or supplying work, services, materials, or supplies to the successful contractor in connection with the performance of this contact.

If the successful contractor supplies products it manufactures (in whole or in part), the successful contractor agrees to indemnify BrightRidge, its officials, officers, agents, and employees from any and all third-party claims and losses accruing or resulting from bodily injury or damage to property caused by the failure of such products.

If the successful contractor only supplies products manufactured by others, the successful contractor is not obligated to indemnify BrightRidge for a failure of any such products manufactured by others. If the successful contractor only supplies products manufactured by others, the successful contractor agrees to cooperate with BrightRidge and take all reasonable steps to assist BrightRidge in making claims against any such product's manufacturer for any such product's failure.

In any case, the foregoing provisions concerning indemnification shall not be construed to indemnify BrightRidge from damage arising out of bodily injury to persons or damage to property caused by or resulting from the sole negligence of BrightRidge or its employees. This indemnification shall survive the expiration or early termination of this contract.

The undersigned acknowledges: That he/she is an authorized agent of the vendor submitting this quotation. The receipt of the following addenda (if any). The provision of the indemnification agreement.

Company Name:

_____

Company Address:

_____

Taxpayer ID: _____

Telephone Number: _____ **Mobile Number:** _____

E-mail: _____ **Fax Number:** _____

Primary Point of Contact: _____

Authorized Signature: _____

Date of Signature: _____**Title:** _____

Printed or Typed Name: _____

FAILURE TO SUBMIT THIS COMPLETED FORM WITH YOUR BID SUBMISSION MAY RESULT IN YOUR BID BEING REJECTED AS UNRESPONSIVE.

BrightRidge
Specifications Exception Form

In the interest of fairness and sound business practice, it is mandatory that you state any exceptions taken by you to our specifications.

It should not be the responsibility of BrightRidge to ferret out information concerning the materials which you intend to furnish.

If your bid/quotation does not meet all of our specifications, you must so state in the space provided below.

Bids on equipment, vehicles, supplies, services, and materials not meeting specifications may be considered by BrightRidge, however, all deviations must be listed below.

I do meet specifications.

Signature: _____

I do not meet specifications. *Exceptions are in the space provided.*

Signature: _____

FAILURE TO SUBMIT THIS COMPLETED FORM WITH YOUR BID SUBMISSION MAY RESULT IN YOUR BID BEING REJECTED AS UNRESPONSIVE.

Exceptions (please list below and specify exceptions)

No Bid Questionnaire

BrightRidge
Attn: Purchasing
2600 Boones Creek Rd
Johnson City, TN 37615

Quotation Number: 9521

If you choose not to bid, please complete the questionnaire below and return it with your response by the bid opening date. Your assistance in helping us to analyze no bid rationale is very much appreciated.

For the following reason(s) we are submitting a no bid:

_____ Item not supplied by our company.

_____ Bid specifications (e.g. too restricted, not clear, etc.) Please explain.
_____

_____ Profit margin on municipal bids is too low.

_____ Past experience with BrightRidge (e.g. payment delay, bid process, administrative problems, etc.) Please explain. _____

_____ Insufficient time allowed to prepare and respond to bid request.

_____ Bid requirement ☐ Too Large or ☐ Too Small for our company.

_____ Priority of other business opportunities limit time/other resources available to deliver or perform according to bid specifications.

_____ Other reason(s). Please explain. _____

Company Name: _____

Address: _____

Telephone: _____ E-mail: _____

_____ _____
(Signature) (Printed/Typed Name)

Title: _____ Date: _____

BrightRidge
Business and Taxpayer Identification Information

This Business is operating as a:

☐ Individual/Sole Proprietor or Single Member LLC ☐ Partnership ☐ Trust/Estate

☐ C Corporation ☐ S Corporation

☐ Limited Liability Company
(Enter the tax classification (C=Corporation, S=S Corporation, P=Partnership) _____

☐ Other (please describe) _____

Licensed or otherwise authorize to business by the state of: _____

Taxpayer Identification Number: __ __ - __ __ __ __ __ __ __
Or
Social Security Number: __ __ __ - __ __ - __ __ __ __

Legal Name: (as shown on your income tax return)

_____

Doing Business as Name: (DBA)

_____

Address: _____

City, State, Zip: _____

Note:
If applicable, your bid may be rejected if you do not complete and submit this page and/or a W-9 with your bid. Checks in payment of obligations by BrightRidge will be made payable to your legally issued name unless you state a DBA. Federal Tax reporting, if required, will also be in your legal name.

REQUEST FOR QUOTATION

BrightRidge
2600 Boones Creek Rd.
Johnson City, TN 37615

Vendor	Quotation
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Print Date	**Page**
11/05/2026	1

TO
BRIGHTRIDGE *** SEALED BID ***
PLEASE WRITE COMPANY NAME IN THIS AREA
2600 BOONES CREEK RD
JOHNSON CITY, TN 37615

SHIP TO
JOHNSON CITY ENERGY AUTHORITY
2610 BOONES CREEK ROAD
JOHNSON CITY, TN 37615
Phone: (423)952-5161
Fax: (423)952-5092

Phone:
Fax:

Response Due Date: 2:00 pm 11/19/2026

Requested Terms

Shipment Method	Shipment Terms	FOB	Payment Terms
Best Way	Pre-Paid and Included	Destination	NET -30 DAYS

LN	ITEM	QUANTITY	UOM	DESCRIPTION	UNIT PRICE	DEL DT/LEAD TM
1	48901824	1.000	EA	POLE, STEEL GALVANIZED 30'-3 DISTRIBUTION, ROUND TAPERED, DIRECT EMBEDDED, PLASTIC TOP CAP, BUTT PLATE, (2)ZINC COATED GROUNDING INSERTS ☐ STEEL GALVANIZED 30'-3 - CAROLINA HIGH MAST ☐ STEEL GALVANIZED 30'-3 - VALMONT INDUSTRIES		
2	48300960	3.000	EA	POLE, STEEL WEATHERING 55' LD-2 (H1) TRANSMISSION, DODECAGON, DIRECT EMBEDDED, BUTT PLATE, SEE BRIGHTRIDGE SPECIFICATIONS ☐ 55' LD-2 WEATHERING STEEL POLE - CAROLINA HIGH MAST ☐ 55' LD-2 WEATHERING STEEL POLE - TRINITY MEYER ☐ 55' LD-2 WEATHERING STEEL POLE - VALMONT INDUSTRIES ☐ 55' LD-2 WEATHERING STEEL POLE - SABRE INDUSTRIES ☐ 55' LD-2 WEATHERING STEEL POLE - FORT WORTH TOWER (FWT)		
3	48901819	5.000	EA	POLE, STEEL GALVANIZED 50'-2 DISTRIBUTION, ROUND TAPERED, DIRECT EMBEDDED, PLASTIC TOP CAP, BUTT PLATE, (2)ZINC COATED GROUNDING INSERTS ☐ STEEL GALVANIZED 50'-2 - CAROLINA HIGH MAST ☐ STEEL GALVANIZED 50'-2 - VALMONT INDUSTRIES		

REQUEST FOR QUOTATION

Vendor	Quotation
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LN	ITEM	QUANTITY	UOM	DESCRIPTION	UNIT PRICE	DEL DT/LEAD TM
4	48300906	1.000	EA	POLE, STEEL WEATHERING 55' LD-1 TRANSMISSION, DODECAGON, DIRECT EMBEDDED, BUTT PLATE, SEE BRIGHTRIDGE SPECIFICATIONS ☐ 55' LD-1 WEATHERING STEEL POLE - TRINITY MEYER ☐ 55' LD-1 WEATHERING STEEL POLE - VALMONT INDUSTRIES ☐ 55' LD-1 WEATHERING STEEL POLE - CAROLINA HIGH MAST ☐ 55' LD-1 WEATHERING STEEL POLE - SABRE INDUSTRIES ☐ 55' LD-1 WEATHERING STEEL POLE - FORT WORTH TOWER (FWT)		
5	48901820	1.000	EA	POLE, STEEL GALVANIZED 55'-2 DISTRIBUTION, ROUND TAPERED, DIRECT EMBEDDED, PLASTIC TOP CAP, BUTT PLATE, (2)ZINC COATED GROUNDING INSERTS ☐ STEEL GALVANIZED 55'-2 - CAROLINA HIGH MAST ☐ STEEL GALVANIZED 55'-2 - VALMONT INDUSTRIES		
6	48300947	1.000	EA	POLE, STEEL GALVANIZED 55' LD-4 (H3) DISTRIBUTION, ROUND TAPERED, DIRECT EMBEDDED, PLASTIC TOP CAP, BUTT PLATE, (2)ZINC COATED GROUNDING INSERTS ☐ 55' H3 STEEL GALVANIZED POLE - VALMONT INDUSTRIES ☐ 55' H3 STEEL GALVANIZED POLE - CAROLINA HIGH MAST		
7	48300916	2.000	EA	POLE, STEEL WEATHERING 75' LD-2 (H1) TRANSMISSION, DODECAGON, DIRECT EMBEDDED, BUTT PLATE, SEE BRIGHTRIDGE SPECIFICATIONS ☐ 75' LD-2 H1 WEATHERING STEEL - FORT WORTH TOWER (FWT) ☐ 75' LD-2 H1 WEATHERING STEEL - SABRE INDUSTRIES ☐ 75' LD-2 H1 WEATHERING STEEL - CAROLINA HIGH MAST ☐ 75' LD-2 H1 WEATHERING STEEL - TRINITY MEYER ☐ 75' LD-2 H1 WEATHERING STEEL - VALMONT INDUSTRIES		

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LN	ITEM	QUANTITY	UOM	DESCRIPTION	UNIT PRICE	DEL DT/LEAD TM
8	48400904	1.000	EA	POLE, STEEL WEATHERING 75' LD-5 (H4) TRANSMISSION, DODECAGON, DIRECT EMBEDDED, BUTT PLATE, SEE BRIGHTRIDGE SPECIFICATIONS ☐ 75' LD-5 WEATHERING STEEL POLE - TRINITY MEYER ☐ 75' LD-5 WEATHERING STEEL POLE - VALMONT INDUSTRIES ☐ 75' LD-5 WEATHERING STEEL POLE - SABRE INDUSTRIES ☐ 75' LD-5 WEATHERING STEEL POLE - CAROLINA HIGH MAST ☐ 75' LD-5 WEATHERING STEEL POLE - FORT WORTH TOWER (FWT)	_____	_____
9	48400918	1.000	EA	POLE, STEEL WEATHERING 80' LD-3 (H2) TRANSMISSION, DODECAGON, DIRECT EMBEDDED, BUTT PLATE, SEE BRIGHTRIDGE SPECIFICATIONS ☐ 80' LD3 WEATHERING STEEL - VALMONT INDUSTRIES ☐ 80' LD3 WEATHERING STEEL - CAROLINA HIGH MAST ☐ 80' LD3 WEATHERING STEEL - TRINITY MEYER ☐ 80' LD3 WEATHERING STEEL - FORT WORTH TOWER (FWT) ☐ 80' LD3 WEATHERING STEEL - SABRE INDUSTRIES	_____	_____
10	48400905	1.000	EA	POLE, STEEL WEATHERING 80' LD-5 (H4) TRANSMISSION, DODECAGON, DIRECT EMBEDDED, BUTT PLATE, SEE BRIGHTRIDGE SPECIFICATIONS ☐ 80' LD-5 WEATHERING STEEL POLE - VALMONT INDUSTRIES ☐ 80' LD-5 WEATHERING STEEL POLE - FORT WORTH TOWER (FWT) ☐ 80' LD-5 WEATHERING STEEL POLE - SABRE INDUSTRIES ☐ 80' LD-5 WEATHERING STEEL POLE - CAROLINA HIGH MAST ☐ 80' LD-5 WEATHERING STEEL POLE - TRINITY MEYER	_____	_____

REQUEST FOR QUOTATION

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LN	ITEM	QUANTITY	UOM	DESCRIPTION	UNIT PRICE	DEL DT/LEAD TM
12	48300919	2.000	EA	POLE, STEEL WEATHERING 90' LD-2 (H1) TRANSMISSION, DODECAGON, DIRECT EMBEDDED, BUTT PLATE, SEE BRIGHTRIDGE SPECIFICATIONS ☐ 90' LD-2 H1 WEATHERING STEEL - VALMONT INDUSTRIES ☐ 90' LD-2 H1 WEATHERING STEEL - SABRE INDUSTRIES ☐ 90' LD-2 H1 WEATHERING STEEL - TRINITY MEYER ☐ 90' LD-2 H1 WEATHERING STEEL - FORT WORTH TOWER (FWT) ☐ 90' LD-2 H1 WEATHERING STEEL - CAROLINA HIGH MAST		
13	48400924	1.000	EA	POLE, STEEL WEATHERING 95' LD-11(H10) TRANSMISSION, DODECAGON, DIRECT EMBEDDED, BUTT PLATE, SEE BRIGHTRIDGE SPECIFICATIONS ☐ 95' LD-10 WEATHERING STEEL - SABRE INDUSTRIES ☐ 95' LD-10 WEATHERING STEEL - TRINITY MEYER ☐ 95' LD-10 WEATHERING STEEL - FORT WORTH TOWER (FWT) ☐ 95' LD-10 WEATHERING STEEL - CAROLINA HIGH MAST ☐ 95' LD-10 WEATHERING STEEL - VALMONT INDUSTRIES		

Vendor Terms

Shipment Method	Shipment Terms	FOB	Payment Terms

ALL PRICING MUST BE GOOD FOR 7 DAYS AFTER RECEIPT OF PURCHASE ORDER. VALID THRU DATES MUST BE ENTERED IF PRICING WILL ONLY BE HELD FOR A SPECIFIC PERIOD OF TIME.

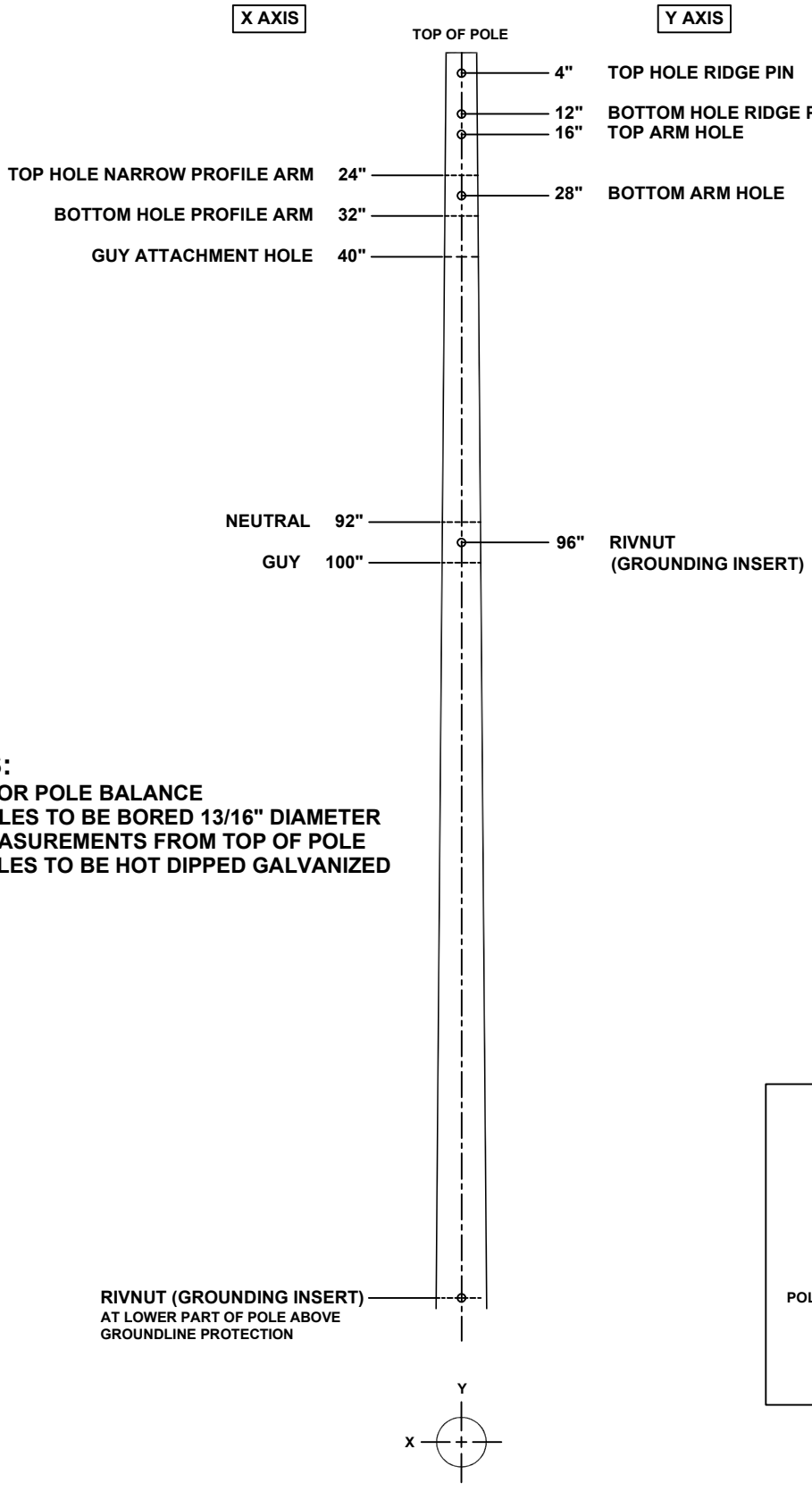
NOTE TO AVOID DISQUALIFICATION OF YOUR QUOTATION
Vendors must use quotation provided, you may include your own form as back up: quote items in the same order as our form, BrightRidge form will be used for Processing Bid. QUOTES MUST BE IN THE SAME UNIT OF MEASUREMENT AS REQUESTED. Indicate manufacturer quoted. If not a listed manufacturer, pre-approval is required through our Engineering Department. Include estimated delivery date. Please note that your lead times may impact our selection process. Standard packaging needs to be indicated on quote. *Note our requested shipping terms are pre-paid and included, if different terms the estimated amount of shipping charges need to be included with quotation.

Valid Through Date:

Authorizing Signatures

WENDI DAVIS
GENERAL ACCOUNTANT
(423)952-5128

BRIGHTRIDGE
STEEL DISTRIBUTION POLE BORING DIAGRAM



NOTES:
- HOLE FOR POLE BALANCE
- ALL HOLES TO BE BORED 13/16" DIAMETER
- ALL MEASUREMENTS FROM TOP OF POLE
- ALL POLES TO BE HOT DIPPED GALVANIZED

SPECIFICATIONS

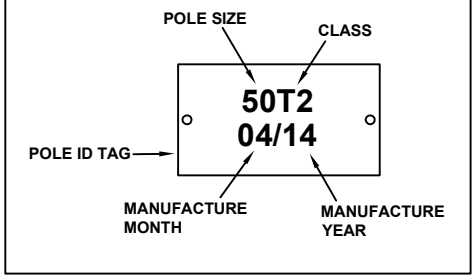
NOTES
1. MUST BE WOOD POLE EQUIVALENT AS PER CLASS
2. UPPER & LOWER GALVANIZED HOLES WITHIN 2"-6" FROM TOP & BOTTOM OF POLE AND/OR STUB; OPPOSING ANY UNDRILLED PLANE
3. PLASTIC TOP CAP REQUIRED
4. (2) 21/32" J-BOLT HOLES 2.5" FROM POLE BOTTOM

POLE ID TAG
1. TOP CAP, BUTT PLATE, & POLE ID TAG TO BE INSTALLED BY GALVANIZER
2. POLE ID TAG TO BE 12'-0" FROM BOTTOM OF POLE
3. POLE TAG TO INCLUDE POLE SIZE & CLASS AS WELL AS MONTH/YEAR (SEE DETAIL A)

GROUNDLINE PROTECTION
1. CHEMTHANE OR EQUIALENT TREATMENT TO BE APPLIED FROM BUTT OF POLE TO 18" ABOVE GROUNDLINE
2. CHEMTHANE OR EQUIVALENT TO BE MINIMUM 16MILS THICK & FEATHERED AT TIP END

RIVNUTS
1. (2) RIVNUTS (GROUNDING INSERTS) TO BE INSTALLED IN THE POLE BY THE GALVANIZER AFTER GALVANIZING
2. BOTTOM RIVNUT TO BE LOCATED ABOVE GROUNDLINE PROTECTION

DETAIL A



REVISED 07/26/18

Transmission Pole & Davit Arm Specs.

1.01 **Definitions**

A. D/t – The ratio of the diameter of a tubular pole to the steel plate thickness.

B. Overload factors (OLF) – a multiplier, which is applied to each of the vertical, transverse and longitudinal structure loads to obtain an ultimate load.

C. w/t – The ratio of the width of the pole (flat-to-flat) to the plate thickness.

D. Point of Fixity – The point along the pole length where the maximum moment occurs. For use in this specification, it is defined as a point 7% of the total pole length from the bottom of the pole.

E. Tip Load – A horizontal load applied to a pole 2 feet from the top of the pole.

1.02 **NESC WEATHER LOAD**

The following weather case shall be applied to all engineered poles. **These loads do not apply to standard class poles.**

NESC LOADING DISTRICT					
DISTRICT	DESIGN TEMP (F°)	RADIAL ICE THICKNESS (INCHES)	WIND PRESSURE (PSF)	CONSTANTS (LBS/FT)	
HEAVY LOADING	0°	0.5”	4	0.30	

1.03 **SUBMITALS**

A. Pole Data Required for analysis to determine pole acceptability for this project.
   a. Shape (12 flats, dodecagon)
   b. Tip diameter
   c. Basic Diameter
   d. Tube section information
      1. Length
      2. Steel Thickness
      3. Lap Length (if any)
      4. Steel Strength

B. Final Drawings, Manuals, and Test Reports shall be provided prior to shipment.

C. Information to be supplied with the proposal:

a. Sketches or draft drawings of structure and structure attachments and attachments of assemblies (detailing the centerline for tangent structures and the angle bisector for angle structures, with description of matching mark locations for the anchor bolt cage on the top template and the pole).

D. Documentation to be supplied for BrightRidge's approval prior to fabrication of engineered poles and/or davit arms:
   a. Documentation includes final design calculations for pole shaft, base plate, anchor bolts, arms and other appurtenances, including their connections for all structures. The hollowing information shall be supplied:
      i. For all indicated loading cases with OLF, provide the total shear, axial forces, moments, stresses or stress ratios, section module, cross-sectional areas, w/t's for polygonal and D/t's for round cross sections at all splices, at arm and assembly attachment points (top and bottom), and at least every 10 feet (3.05m) along the pole.
      ii. For the critical loading case in arms, provide shear and axial forces, moments, stresses, section module, cross-sectional areas at arm connections, bolt stresses in arm connection, and deflection at end of arm.
      iii. Anticipated deflections at the top of the pole and at ends of any arms shall be indicated for each pole for the normal, standard unfactored loading condition of 60°F (15.56°C), no wind, no OLF.
      iv. Amount of installation rake necessary for pole to appear plumb through the vertical under normal, standard unfactored loading condition of 60°F (15.56°C), no wind, no OLF.
      v. For all specified loading cases, reactions and groundline moments shall be supplied.
      vi. Detail drawings for each structure type giving weights of structure components, dimensions, and bill of materials.
      vii. Assembly instructions and erection drawings; Slip joint lengths and allowable tolerances; and any special handling instructions.

E. Final designs must pass an acceptable review by BrightRidge before material ordering and fabrication. Material ordering and fabrication prior to approval will be at Manufacturer's risk. It is understood that award of this contract does not constitute acceptance of design calculations submitted with the bid. If corrections are required in the final structure designs due to manufacturer's errors, omissions, or misinterpretations of the specifications, the quoted price shall not change. Acceptable review of the drawings and calculations by BrightRidge does not relieve the manufacturer of

responsibility for the adequacy of the design, correctness of dimensions, details on the drawings, and the proper fit of parts.

F. All final drawings shall become the property of BrightRidge, who shall have full rights to reproduce drawings and use them as BrightRidge sees fit.

1.04 Quality Assurance

A. All materials, equipment and appurtenances used in construction of this project shall be new and shall conform to those acceptable by standard publications used in line construction, unless otherwise specified herein.
B. Supply all equipment and accessories new and free from defects.
C. Supply all equipment and accessories in compliance with applicable standards and with all applicable national, state, and local codes.
D. All items of a given type shall be the products of the same Manufacturer.

1.05 Shipping

A. Each shipment shall be accompanied by a list of all parts, identifiable by structure, type and number. Arms, bolts and miscellaneous hardware will be identified by the list for matching up with the respective pole shaft. All parts required for any one structure shall be in one shipment, if possible.
B. BrightRidge shall be notified prior to shipment that such shipment is to take place, and they reserve the right to inspect the components prior to shipment or unloading. The notification shall give quantities; weight, name of common carrier used, and expected time of arrival.
C. Salt-treated wood blocking and urethane foams shall not be used when shipping or storing weathering steel poles.
D. BrightRidge will provide all labor, equipment, and materials for the unloading of poles at the project site. A pole is considered delivered when the pole is lifted from the trailer or semi-trailer of the delivery carrier.
E. After delivery, the poles will be inspected and shall be free of dirt, or blisters, flux, black spots, dross, tear-drop edges, flaking paint or zinc; and in general, shall be smooth, attractive and unscarred. Poles not meeting this requirement shall be repaired or replaced by the Contractor at no additional cost to BrightRidge.

PART 2 PRODUCTS

2.01 Design Requirements

5.1.1 Pole designs shall be prepared for the Standard Class loads as shown in Table 1.

The poles shall be designed to meet ASCE Manual No. 72. “Design of steel Transmission Pole Structure.” Design methods. The point-of-fixity shall be considered to be located at a

distance from the pole bottom that is equal to 7 percent of the pole length. The pole shall be symmetrically designed such that the strength required in any one direction shall be required in all directions about the longitudinal axis of the pole.

5.1.2 Using corresponding values in Table 1.

a. The pole shall meet the minimum ultimate moment capacity required in Table 1 at a distance of five feet from the pole top.

b. The pole shall meet the minimum ultimate capacity about the point-of-fixity that is calculated by multiplying the tip load in Table 1 by distance to the tip load.

c. The geometry and taper of the pole shall be uniform throughout their entire length (top to butt).

d. Maximum allowable reactions to loads applied in Table 1 shall be limited to 85% of yield.

5.1.3 The poles shall be designed to withstand the specified tip loading in Table 1 without a pole deflection of 15% of the length above the point-of-fixity when tested in accordance with ASCE Manual No. 72

5.1.4 Overall length of poles shall be designed and manufactured in incremental lengths of 5 feet.

5.1.5 All poles 60 feet or less shall be designed as a one-piece pole.

TABLE 1 STRENGTH REQUIREMENTS (Minimum Requirements)

POLE CLASS	RUS STEEL POLE CLASS	Tip Load	40 ft Ft-Kips	50 ft Ft-Kips	55 ft Ft-Kips	60 ft Ft-Kips	65 ft Ft-Kips	70 ft Ft-Kips	75 ft Ft-Kips
LD1	S-02.9	2,925	116	137	149	153	165	177	191
H1 (LD2)	S-03.5	3,510	143	168	182	187	201	215	231
H2 (LD3)	S-04.2	4,160	164	194	209	215	231	248	266
H3 (LD4)	S-04.9	4,876	197	232	250	258	277	297	317
H4 (LD5)	S-05.7	5,656	215	248	266	316	338	360	383
H5 (LD6)	S-06.5	6,500	243	283	304	364	390	417	444
H6 (LD7)	S-07.4	7,410	286	328	350	417	444	471	499
H7 (LD8)	S-08.0	8,386	329	378	404	484	516	548	582
H8 (LD9)	S-01.9	9,426	365	418	446	520	553	587	623
H9 (LD10)	S-10.0	10,660	413	473	504	589	627	665	705
H10 (LD11)	S-11.0	12,000	469	539	577	677	721	767	815

TABLE 2 STRENGTH REQUIREMENTS (Minimum Requirements)										
POLE CLASS	**RUS STEEL POLE CLASS**	**Tip Load**	**80 ft Ft-Kips**	**85 ft Ft-Kips**	**90 ft Ft-Kips**	**95 ft Ft-Kips**	**100 ft Ft-Kips**	**105 ft Ft-Kips**	**110 ft Ft-Kips**	**115 ft Ft-Kips**
LD1	S-02.9	2,925	204	218	233	248	263	279	284	301
H1 (LD2)	S-03.5	3,510	246	263	279	297	314	333	339	358
H2 (LD3)	S-04.2	4,160	284	303	322	342	362	384	455	481
H3 (LD4)	S-04.9	4,876	338	360	383	406	424	442	541	571
H4 (LD5)	S-05.7	5,656	406	430	455	481	507	534	542	570
H5 (LD6)	S-06.5	6,500	472	502	532	563	595	627	639	666
H6 (LD7)	S-07.4	7,410	528	558	589	620	651	676	794	833
H7 (LD8)	S-08.0	8,386	617	651	678	705	732	759	934	977
H8 (LD9)	S-01.9	9,426	659	696	735	774	814	856	973	1,021
H9 (LD10)	S-10.0	10,660	746	788	831	876	921	967	1,103	1,157
H10 (LD11)	S-11.0	12,000	864	914	965	1,005	1,045	1.084	1,292	1,357

2.02 Materials

A. All materials shall comply with the applicable requirements of ASTM specifications. Any modifications to ASTM specifications must be approved by BrightRidge prior to bidding.
B. Poles, arms, and conductor brackets shall conform to ASTM A36, ASTM A572, ASTM A581, ASTM A588, ASTM A871, or ASTM A595.
C. Anchor bolts, structural plate, and weld material shall meet ASCE requirements for Charpy tests.
D. For galvanized structures, steel used for the pole shaft and arms shall have a silicon content of less than .06 percent.
E. Base plates for self-supported poles shall conform to ASTM A572, ASTM A588, ASTM A633, or ASTM A595.
F. Anchor bolts for self-supported poles shall conform to ASTM A65, Grade 60 or 75.

2.03 Manufactured Units

A. The design, fabrication, allowable stresses, processes, tolerances, and inspection shall conform to the American Society of Civil Engineers (ASCE) Standard, Design of Steel Transmission Pole Structures, latest edition, with the following additions and/or exceptions:
    a. Minimum yield strength of pole shaft shall be 65 ksi.
    b. Minimum plate thickness for all pole components shall be 3/16 inch (4.76mm).
    c. Poles shall have a uniform taper throughout their entire length unless specified otherwise. The maximum difference in tapers between two pole sections

measured by the diameters shall be 0.20 inch/ft (0.66mm/m) for poles with variable taper.

d. Poles shall be designed with a minimum number of joints. Field welding shall not be allowed as part of the design of a new pole. The shaft joints to be made in the field shall be slip joints. Slip joint length shall be at least 1 ½ times the largest inside diameter of the female section. Manufacturers shall provide proper holes and/or slots for bolting the two sections together. Manufacturers shall verify slip joint fit before shipment. Joints should not interfere with other joints, step nuts, ladder clips, or jacking nuts. Sufficient jacking lugs and permanent orientation marks shall be provided at all slip joints to ensure proper alignment and complete overlap of the joint.
e. Lifting lugs are optional. The manufacturer shall supply all instructions for handling and erection of poles and arms.
f. Plastic plugs shall be installed in all nuts welded to the structure and all tapped holes. All threads shall be clean and free of obstructions and deformations.
g. Grounding connections shall be welded to the pole shaft. The lower grounding connection shall be installed 18 inches (0.45 m) above the base plate, or in cases of direct embedded poles, 12 inches (0.31 m) above the ground sleeve or design burial depth. The upper grounding connection shall be installed 6 inches below the point of neutral or shield attachment whichever is higher above ground line. The grounding connection will be either the two-hole, National Electric Manufacturers Association, NEMA-drilled pad or a nut. Grounding pad-face shall not be painted or covered with other coatings. The ground nut threads, and grounding pad threads shall be protected from coatings.
h. Structures which are to be directly embedded shall have bearing plates and ground sleeves. Bearing plates shall have a diameter not more than 2 inches (50.8mm) greater than the maximum pole diameter.
i. Ground sleeves shall have a minimum length of 18 inches above and below ground line. The ground sleeve shall have a minimum thickness of 3/16 inches (4.76mm) and shall be centered at the ground line. A seal weld shall be provided around the ground sleeve. The ground sleeve shall not be considered in strength calculations.
j. Galvanized poles shall have a drain hole at the bottom and a ventilation hole near the top and on the side of the pole for all direct bury poles. When a painted finish is specified, poles shall be hermetically sealed.
k. All non-guyed structures, including self-supported structures, shall be designed for a calculated deflection at the top of the pole no greater than 1.5 percent of the pole height under a normal, everyday loading condition of 60°F (15.56°C), no

wind, based on design te3nsion. For purposes of deflection, pole height shall be the height of the pole from the top of the base plate, or designated ground line, to the top.

l. When poles are to be directly embedded, a 16 mil (minimum dry film thickness), two component hydrocarbon extended polyurethane coating that is resistant to ultraviolet light shall be applied on the exposed surface of the embedded portion of the pole. The coating shall extend from the butt to a point at least 18 inches (0.45m) above the ground line. Other coatings shall be approved by BrightRidge prior to their use.

m. In the design of connections for vangs, brackets, or stiffener attached to the pole shaft, care shall be taken to distribute the loads sufficiently to protect the wall of the pole from local buckling.

n. Arms shall be so the end of the arm is at the specified height under a loading of initial conductor tension, 60°F (15.56°C), no wind. Arms shall not deflect vertically more than 6 inches (0.15m) at the end of the arm under extreme ice conditions. Arms shall be upswept, tapered, steel tubular members, of any cross-sectional type, which meet the dimensions shown on the attached drawings. The arm shall be designed to avoid trapping or holding moisture.

o. Arms shall be manufactured to meet or exceed the following limits:

i.	Vertical	4000 lbs.	
ii.	Tension	4000 lbs.	
iii.	Compression	4000 lbs.	
iv.	Longitudinal	3000 lbs.	(4 ft. arms)
		2000 lbs.	(5 ft. arms)

p. Each pole shall be permanently marked on the pole shaft 60 inches (1.52m) above ground line and on the bottom of base plate or bearing plate and top of top plate with the following identifying information: structure type, height, structure number, ultimate ground line moment, owner name, and date manufactured. The method of Identification shall be approved by BrightRidge.

q. Pole length and class shall be labeled on the top of the pole cap and bottom of the pole base plate. This marking must be weather resistant marking (ex: welded numbers or a name plate).

r. Weathering steel structures shall be designed to eliminate water and water traps. Tubular sections shall be sealed from moisture entering the inside of the pole. Factory drilled pole holes shall be plugged to prevent moisture intrusion during shipping. For field drilled holes and factory drilled poles, manufacturer shall provide silicon sealant to seal all through-bolt holes. Non-drilled poles, when assembled, shall be effectively sealed to prevent moisture intrusion.

Connections shall be designed to reduce the effect of pack-out by preventing moisture from entering the joint or by designing the connection to allow moisture to easily drain off.

PART 3 EXECUTION

3.01 Fabrication

A. Shop Assembly:
   a. All welding shall be in accordance with the American Welding Society Code AWS D1.1, latest edition. Welders shall be qualified in accordance with AWS D1.1 welding procedures.
   b. The thickness for any weld shall be defined by the smaller of the two parts being joined and shall not exceed 3/8 inch for any prequalified weld.
   c. One hundred percent penetration welds shall be required in, but not limited to, the following areas:
      i. Circumferential welds (C-welds) joining structural members.
      ii. Longitudinal welds in the female portion of the joint within the slip joint area.
      iii. Welds at the butt joints of back-up strips.
      iv. Base plate to shaft weld; and
      v. Longitudinal welds for a minimum length of 3 inches (76.2mm) where there are adjacent C-welds, flange welds, base welds, and ends or tubes.
   d. Full penetration or equivalent 90 percent partial penetration with fillet overlay shall be used for arm-to-arm base, vang-to-plate shaft, and arm box joints.
   e. Quality and acceptability of every inch of the full penetration welds shall be determined by visual and ultrasonic inspection. The frequency of piping porosity in fillet welds shall not exceed one in each 4 inches of weld length and the maximum diameter of porosity shall not exceed 3/32 inch.
   f. All other penetration welds shall have 60 percent minimum penetration. Quality and acceptability of all welds other than full penetration welds shall be determined by visual inspection, supplemented by magnetic particles, ultrasonic or dye penetrant inspection.
   g. Cracks in welds shall be unacceptable, regardless of size or location.
   h. All weld back-up strips shall be continuous the full length of the welds. Care shall be exercised in the design of welded connections to avoid areas of high stress concentration, which could be subject to fatigue or brittle fractures.
   i. Field welding shall not be permitted except with BrightRidge's approval and the manufacturer's direction in repairing a pole.

j. All parts of the structure shall be neatly finished and fee from kinks or twists. All holes, blocks, and clips shall be made with sharp tools and shall be clean-cut without torn or ragged edges.

k. Before being laid out or worked in any manner, structural material shall be straight and clean. If straightening is necessary, it shall be done by methods that will not injure the metal.

l. Shearing and cutting shall be performed carefully and all portions of the work shall be finished neatly. Copes and re-entrant cuts shall be filleted before cutting.

m. All forming or bending during fabrication shall be done by methods that will prevent embrittlement or loss of strength in the material being worked.

n. No holes shall be drilled by manufacturers unless specified by BrightRidge. Holes for bolts shall be 1/8 inches (3.17mm) larger than the nominal diameter of the bolts. Holes in the flange plates of bolted splices shall be 1/8 inch (3.17mm) larger than the bolt diameter. Holes in the base plates for anchor bolts shall be 3/8 inch (9.52mm) larger than the nominal diameter of the anchor bolts. All hole diameters specified, or shown in the Contract Drawings, shall be minimum sizes **AFTER** galvanizing. The details of all connections and splices shall be subject to the approval of BrightRidge.

o. Holes in steel plates which are punched must be smooth and cylindrical without excessive tear out or depressions. Any burrs that remain after punching shall be removed by grinding, reaming, etc.

p. Holes of any diameter may be drilled in plate of any thickness. Care shall be taken to maintain accuracy when drilling stacks of plates.

q. Holes may be made by use of a machine guided oxygen torch. Flame cut edges shall be reasonably smooth and suitable for the stresses transmitted to them.

r. The overall length of the assembled structure should not be less than 6 inches (0.15mm) of the specified length and not more than 12 inches (0.31mm).

B. Finish Coatings:

a. The following finishes are acceptable: galvanizing, and weathering steel.

i. Galvanizing: All structures and structural components which are hot-dipped galvanized shall meet the entire requirements of ASTM A123 or ASTM A153. Measures shall be taken to prevent warping and distortion according to ASTM A384 and to prevent embrittlement according to ASTM A143. Poles made of ASTM A588 steel shall not be galvanized due to the high silicon content of the steel. One gallon of zinc enriched paint shall be provided with each five poles.

ii. Weathering Steel: Steel shall conform to ASTM A588 or A871. After fabrication, poles made of weathering steel shall be cleaned of oil, scale, etc., in accordance with the Steel Structure Painting Council's Surface Preparation Specification, SSPC-SPC6, to ensure uniform and rapid formation of the protective oxide layer.

C. Bolts and nuts with yield strengths less than 100,000 psi (7032.3kg/cm) shall be hot-dipped galvanized per ASTM A153 and ASTM A143, or mechanically coated with zinc in accordance with ASTM B454, Class 50. Bolting materials with yield strengths in excess of 100,000 psi (7032.3kg/cm) shall not be hot-dipped galvanized. Instead, they shall be painted with zinc enriched paint or mechanically coated with zinc per ASTM B454, Class 50.
D. Compliance with Coating thickness requirements shall be checked with a magnetic thickness gauge.

3.02 Quality Control

A. Steel members, which are bent or warped or otherwise improperly fabricated shall be properly repaired or replaced.
B. The cost of tests made by the manufacturer (except full scale load tests on poles), including cost of the certified test reports shall be considered included in the price.
C. The manufacturer shall make tests in accordance with ASTM A370 and ASTM A673 to verify that the material used in the structures meets the impact properties.
D. Mill test reports showing chemical and physical properties of all material furnished under this specification shall be maintained by the manufacturer for a period of 5 years and shall be traceable to the structure.
E. All plates over 1 ½ inches (38.1mm) thick shall be ultrasonically tested to assure against defects which could lead to lamellar tearing.
F. Welders or welding operations shall be qualified in accordance with the provisions of AWS D1.1
G. The manufacturer shall make certified welding reports for each structure. The reports covering welding shall include all welds of a structure. Each weld shall be clearly identified; and the report shall consist of the method of testing, whether the weld is acceptable, the identification of the structure, the date, and the name and signature of the inspector.

Delivery Instructions

- **Contact (423)952-5108 or email Bailey Presnell (bpresnell@brightridge.com) to schedule deliveries.**
- **A 48-hour notification is required before delivery.**
- **Delivery times are Monday through Friday 8:30 AM to 2:00 PM.**

STANDARD CLASS STEEL POLE BID SUMMARY
(Information to be supplied with pole bid or submittal)

Pole Class							
Pole Length							
POLE DESCRIPTION							
Top Diameter							
Bottom Diameter							
Taper (in/ft)							
GENERAL							
Pole Wt./Each							
Tip Load (Table 1)							
Point of Fixity Loc. (from bottom)							
Steel (ASTM/yield)							
Cross Section Shape							
Splice Joint Type							
CALCULATIONS 5 FT. FROM TOP OF POLE							
Moment							
CALCULATIONS AT GROUNDLINE							
Moment							
Shear							
Axial							
Cross Sectional Area							
CALCULATIONS AT THE POINT OF FIXITY							
Moment							
WALL THICKNESS							
Top							
Groundline							
Bottom							
DEFLECTION							
Top (ft.)							
Top (percent of pole length)							