



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
EBA392

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
SHELLY MURRAY 304-558-8801

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

EDUCATIONAL BROADCASTING
 AUTHORITY
 600 CAPITOL STREET
 CHARLESTON, WV
 25301-1223 304-558-3400

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/15/2011				

BID OPENING DATE: 01/19/2012 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		725-12		
<p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA EDUCATIONAL BROADCASTING AUTHORITY, IS SOLICITING BIDS FOR A SIDE MOUNT 5 BAY FM ANTENNA SYSTEM WITH VERTICAL POLARIZATION AND ANIT-ICING RADOMES PER THE ATTACHED SPECIFICATIONS.</p> <p>TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO SHELLY MURRAY IN THE WEST VIRGINIA PURCHASING DIVISION VIA MAIL AT THE ADDRESS SHOWN AT THE TOP OF THIS RFQ, VIA FAX AT 304-558-4115, OR VIA E-MAIL AT SHELLY.L.MURRAY@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 01/03/2012 AT THE CLOSE OF BUSINESS. ALL TECHNICAL QUESTIONS RECEIVED, IF ANY, WILL BE ADDRESSED BY ADDENDUM AFTER THE DEADLINE.</p> <p>** CD ATTACHMENT OF ATTACHMENT 1</p> <p>ANTENNA</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
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TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
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WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.html and is hereby made part of the agreement provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



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BID OPENING DATE: 01/19/2012 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: SHELLY MURRAY</p> <p>RFQ. NO.: EBA392</p> <p>BID OPENING DATE: 01/19/2012</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT

CONTACT PERSON (PLEASE PRINT CLEARLY):						

***** THIS IS THE END OF RFQ EBA392 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

EBA392

West Virginia Educational Broadcasting Authority (WVEBA) is seeking bids on a side mount 5 bay FM antenna system with vertical polarization and anti-icing radomes. The antenna shall operate on a frequency of 88.5 MHz.

Delivery of the antenna system shall be no later than March 1, 2012.

Specifications plus 4 attachments:

- Tower Drawing (6 Pages)
- Azimuth of Tower
- Antenna Pattern
- Antenna Pattern tabature

The successful vendor shall be a registered vendor with the State of West Virginia Purchasing Division and will pay the \$125 registration fee.

ANTENNA

1. General description

- 1.1. Antenna shall operate on a frequency of 88.5MHz
- 1.2. Antenna shall be 5 bays.
 - 1.2.1. Antenna shall utilize Full Wavelength spacing
 - 1.2.2. Polarization shall be vertical only
 - 1.2.3. Antenna system (antenna, line, and isolator) must deliver a power gain that will result in a 50 KW ERP using a maximum transmitter power of 10 kilowatts
- 1.3. Assembled antenna must accept 10 Kilowatts at a Frequency of 88.5 Megahertz
 - 1.3.1. No beam tilt is requested
 - 1.3.2. Input connector shall be vendor's discretion.
 - 1.3.2.1. All components must be rated to accommodate a power level greater than 10 KW.
 - 1.3.3. Entire antenna and feed mechanism must be pressurizable.
 - 1.3.4. Antenna shall be equipped with anti-icing radomes
 - 1.3.4.1. Antenna heaters will not be acceptable
 - 1.3.5. Antenna will be side mounted with a center of radiation of 54 meters on a self self-supporting AM tower. (Drawing attached- Attachment 1)
 - 1.3.5.1. Tower orientation is defined in Attachment 2
 - 1.3.5.2. Isolation**
 - 1.3.6. The tower is an insulated base AM facility
 - 1.3.7. Vendor shall provide an isolator to allow the FM antenna to be attached to the tower
 - 1.3.7.1. Isolator shall be rated greater than 10 KW input power
 - 1.3.7.2. Isolator shall pass dehydrated air to the transmission line going up the tower to the antenna

- 1.3.8. Vendor shall provide transmission line from the isolator to the transmitter inside the building

1.4. Certification

- 1.4.1. The mounted antenna must meet the azimuthal pattern described in the attached drawings and table (drawings and table attached- Attachment 3 and 4)

- 1.4.1.1. Azimuthal pattern shall be verified by range testing or field measurements of the installed antenna.

- 1.4.1.1.1. The successful vendor shall provide a complete proof of performance to verify the horizontal plane radiation pattern for both the horizontally and vertically polarized radiation components. This proof of performance may be accomplished using the full size antenna, or individual bays therefrom, mounted on a supporting structure of identical dimensions and configuration as the proposed structure, including all braces, ladders, conduits, coaxial lines, and other appurtenances; **or** by using a carefully manufactured scale model of the entire antenna; **or** the individual bays therefrom, mounted on an equally scaled model of the proposed supporting structure, including all appurtenances.

- 1.4.1.1.2. The successful vendor shall provide a description of the antenna testing facilities and equipment employed, including appropriate photographs or sketches and a description of the testing procedures, including the scale factor, measurements frequency, and equipment calibration.

- 1.4.1.2. Antenna shall be field matched to meet a VSWR of 1.1:1 or better.

2. TRANSMISSION LINE

- 2.1. Vendor shall supply Transmission line

- 2.1.1. Line shall be of sufficient efficiency to allow 50 KW ERP using 10 KW TPO

- 2.1.2. Antenna connector shall be at vendor's discretion

- 2.1.2.1. All components shall be rated for a power level greater than 10 KW

- 2.1.2.2. All connectors shall be gas pass with the exception of the connector in the building for the transmitter

- 2.1.2.3. Vendor shall provide a 90 degree adapter to interface to the transmitter output

- 2.1.2.4. Transmitter output is 1 5/8" EIA Flange

- 2.1.3. Line shall be air dielectric and pressurized and shall provide pressurization to the antenna

- 2.1.4. Vendor shall provide all hangers, angle adapters, hoisting kits, grounding kits and other items necessary for installation

- 2.1.4.1. Snap in hangers shall not be used
- 2.1.5. Vendor shall provide air dehydration/pressurization unit

MOUNTING HARDWARE

- 3. Vendor must provide mounting hardware and adapters to interface between the tower and antenna.
 - 3.1. The attached fabrication drawing lists the material size for the legs and cross members.
 - 3.2. The orientation of the tower is defined in Attachment 2
 - 3.2.1.1. Antenna must be supported at a distance from the tower to minimize pattern interference.
 - 3.2.1.2. Antenna must be supported in a manner that minimizes flexing at interbay connections.
 - 3.2.1.3. Antirotation support shall be provided and fabricated to absolutely orient the antenna in the proper azimuth
 - 3.2.1.4. All mounting hardware must be galvanized or stainless steel.
 - 3.2.1.5. All hardware shall meet or exceed EIA/TIA RS-222G standard.

4. ATTACHMENTS

- 4.1. Attachment 1 – Tower Fabrication Drawings (6 pages)
- 4.2. Attachment 2 – Tower orientation as surveyed
- 4.3. Azimuth Pattern Graphic
- 4.4. Azimuth Pattern Numeric Table

DELIVERY and SHIPPING

- 5. Delivery of the antenna system shall be no later than March 1, 2012.
 - 5.1 Shipping and handling shall be FOB Destination to the West Virginia Educational Broadcasting headquarters and shall be included in the price of the equipment.
 - 5.2 The delivery address is West Virginia Public Broadcasting, 600 Capitol Street, Charleston, WV 25301
 - 5.3 There shall be 24 hours notice prior to delivery, to the attention of Dave McClanahan, 304-556-4900.

6. Warranty

- 6.1 All products shall be warranted for a minimum of one year.
 - 6.1.1 Bidders should state their warranty policy with their bid. They must provide their warranty within 24 hours of a request for the information.

INVOICING

- 7 Itemized invoice shall be sent to:
 - 7.1 West Virginia Educational Broadcasting Authority
 - 7.1.1 Attention Tammy Treadway
 - 7.1.2 P. O. Box 9004
 - 7.1.3 Beckley, WV 25802

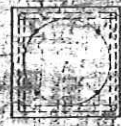
EBA392 Pricing Page 5 Bay FM Sidemount Antenna

Shipping costs shall be included in equipment cost.

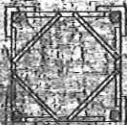
<u>Item</u>	<u>Quantity</u>	<u>Description</u>	<u>Price</u>
1	1	Antenna	_____
2	1	Transmission Line	_____
3	1	Mounting Hardware	_____
TOTAL			_____

Signature of Vendor Representative submitting bid

Date



Floor Section II-II



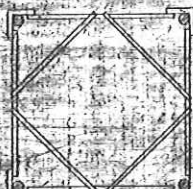
Floor Section III-III



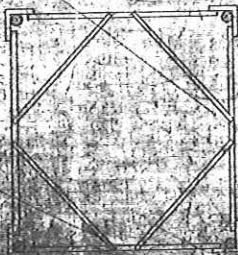
Floor Section IV-IV



Floor Section V-V



Floor Section VI-VI



Reinforcement Schedule

Bar No.	Bar Description	Bar Size	Bar Spacing
1	Top Reinforcement	16mm	150mm
2	Bottom Reinforcement	16mm	150mm
3	Vertical Reinforcement	16mm	150mm
4	Diagonal Reinforcement	16mm	150mm

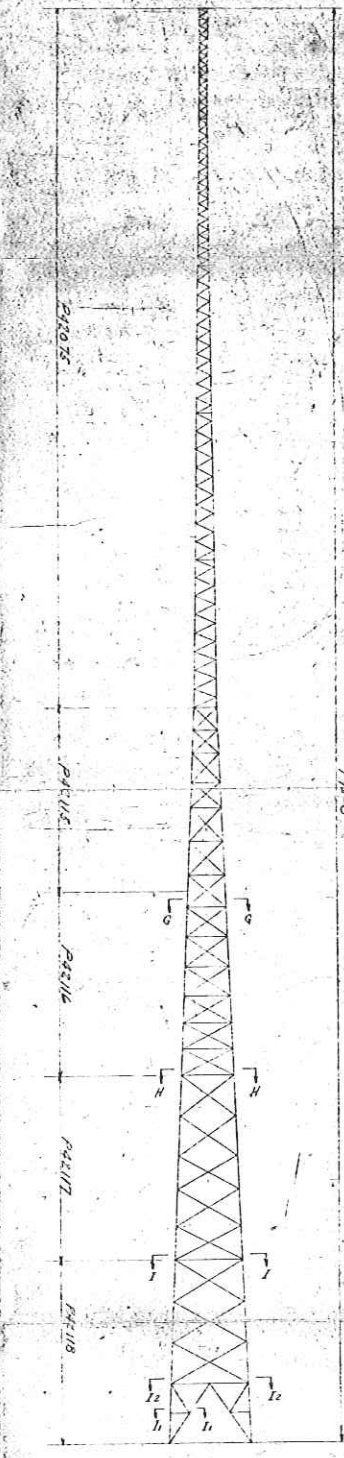
Part	Description	Quantity	Unit
1	Concrete	1.5	m ³
2	Reinforcement	100	kg
3	Formwork	100	m ²
4	Labour	100	man-days

SCALE: 1/20

000009

DRAWING NO. P-2117

A B C D E F G H I J K L M N O P

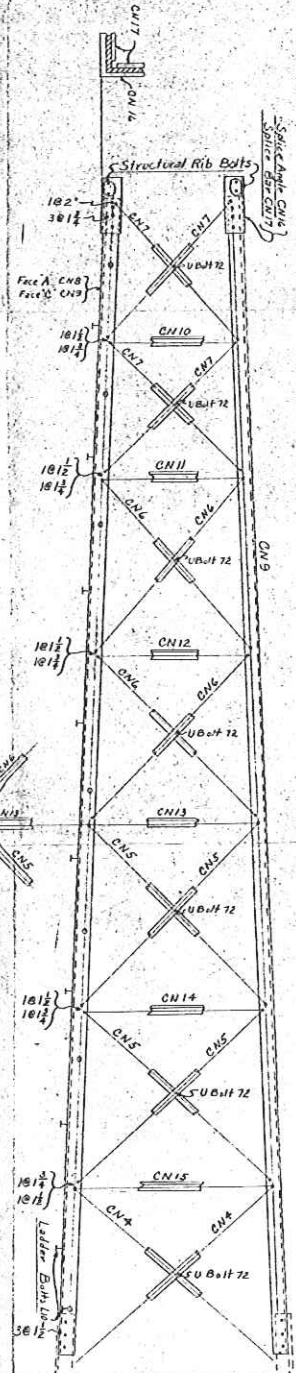
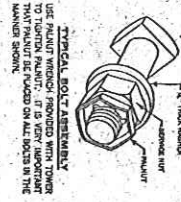


- 1-1 Cut through
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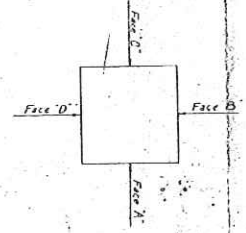
REVISIONS				BY			
NO.	DATE	DESCRIPTION	BY	NO.	DATE	DESCRIPTION	BY

BLAWKNUT DIVISION
 1000 W. 10th Street, Chicago, Ill.
 Telephone BR 3-3000

Field Bolt	Face	Part	Length
1	2	1/2" Dia. x 5.5" Long	7.17" O.A.
2	3	1/2" Dia. x 5.5" Long	7.17" O.A.
3	4	1/2" Dia. x 5.5" Long	7.17" O.A.
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84	85	1/2" Dia. x 5.5" Long	7.17" O.A.
85	86	1/2" Dia. x 5.5" Long	7.17" O.A.
86	87	1/2" Dia. x 5.5" Long	7.17" O.A.
87	88	1/2" Dia. x 5.5" Long	7.17" O.A.
88	89	1/2" Dia. x 5.5" Long	7.17" O.A.
89	90	1/2" Dia. x 5.5" Long	7.17" O.A.
90	91	1/2" Dia. x 5.5" Long	7.17" O.A.
91	92	1/2" Dia. x 5.5" Long	7.17" O.A.
92	93	1/2" Dia. x 5.5" Long	7.17" O.A.
93	94	1/2" Dia. x 5.5" Long	7.17" O.A.
94	95	1/2" Dia. x 5.5" Long	7.17" O.A.
95	96	1/2" Dia. x 5.5" Long	7.17" O.A.
96	97	1/2" Dia. x 5.5" Long	7.17" O.A.
97	98	1/2" Dia. x 5.5" Long	7.17" O.A.
98	99	1/2" Dia. x 5.5" Long	7.17" O.A.
99	100	1/2" Dia. x 5.5" Long	7.17" O.A.



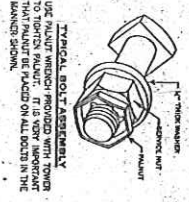
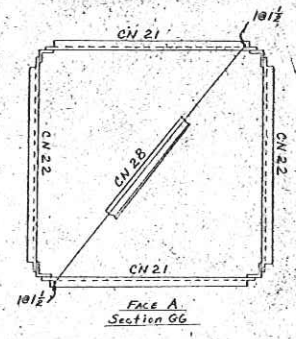
Face 'A'
 All Views Alike - Except
 As Noted



PLAN OF TOWER
 Views Of All Faces Taken
 Looking In Direction Of Arrows

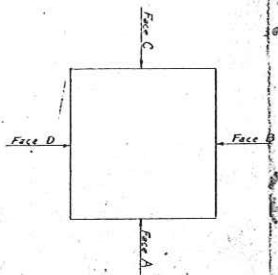
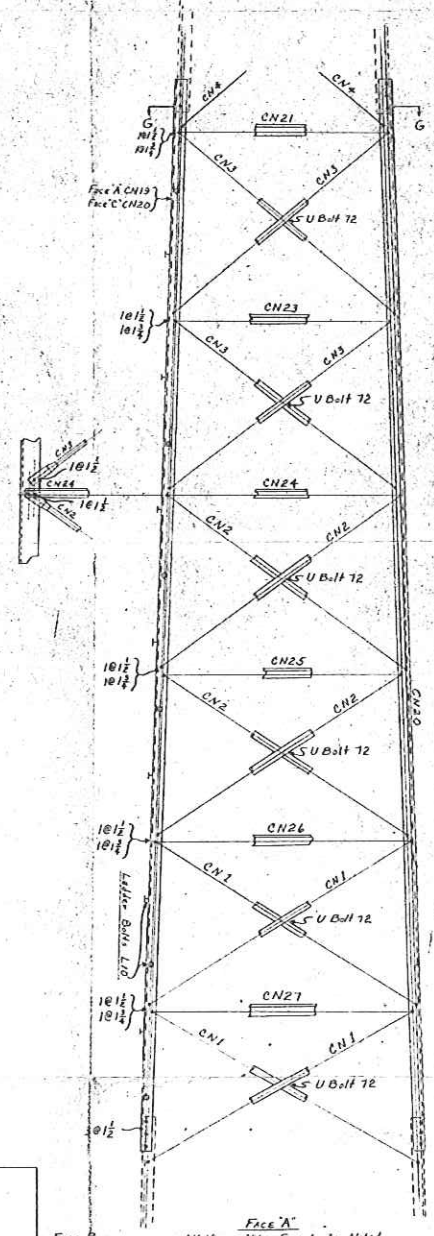
PROPOSAL NO.	REVISIONS	DATE
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4	4	4/1/19
5	5	5/1/19
6	6	6/1/19
7	7	7/1/19
8	8	8/1/19
9	9	9/1/19
10	10	10/1/19
11	11	11/1/19
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15	15	3/1/20
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19	19	7/1/20
20	20	8/1/20
21	21	9/1/20
22	22	10/1/20
23	23	11/1/20
24	24	12/1/20
25	25	1/1/21
26	26	2/1/21
27	27	3/1/21
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92	92	8/1/26
93	93	9/1/26
94	94	10/1/26
95	95	11/1/26
96	96	12/1/26
97	97	1/1/27
98	98	2/1/27
99	99	3/1/27
100	100	4/1/27

BLAW-KNOX DIVISION



USE PLAIN WRENCH PROCEED WITH TOWER
 THAT PLASTER BE PLACED ON ALL BOLTS IN THE
 BUNDLES SHOWN.

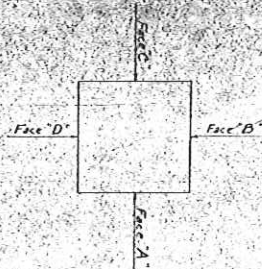
FIELD BOLTS FOR PANEL	
No.	Description
1	4x4 Bolt 1/2" Dia. 7 1/2" L
2	4x4 Bolt 1/2" Dia. 7 1/2" L
3	4x4 Bolt 1/2" Dia. 7 1/2" L
4	4x4 Bolt 1/2" Dia. 7 1/2" L
5	4x4 Bolt 1/2" Dia. 7 1/2" L
6	4x4 Bolt 1/2" Dia. 7 1/2" L
7	4x4 Bolt 1/2" Dia. 7 1/2" L
8	4x4 Bolt 1/2" Dia. 7 1/2" L
9	4x4 Bolt 1/2" Dia. 7 1/2" L
10	4x4 Bolt 1/2" Dia. 7 1/2" L
11	4x4 Bolt 1/2" Dia. 7 1/2" L
12	4x4 Bolt 1/2" Dia. 7 1/2" L
13	4x4 Bolt 1/2" Dia. 7 1/2" L
14	4x4 Bolt 1/2" Dia. 7 1/2" L
15	4x4 Bolt 1/2" Dia. 7 1/2" L
16	4x4 Bolt 1/2" Dia. 7 1/2" L
17	4x4 Bolt 1/2" Dia. 7 1/2" L
18	4x4 Bolt 1/2" Dia. 7 1/2" L
19	4x4 Bolt 1/2" Dia. 7 1/2" L
20	4x4 Bolt 1/2" Dia. 7 1/2" L



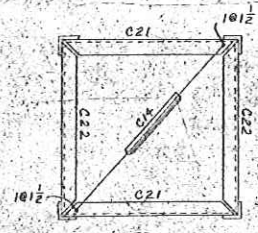
PLAN OF TOWER
 Views Of All Faces Taken Looking
 In Direction Of Arrows.

PROPOSAL NO.	DATE	REVISION	BY	DATE
		1	Bill Clark	1/1/58
		2	Edwards	1/1/58
		3	Edwards	1/1/58
		4	Edwards	1/1/58
		5	Edwards	1/1/58
		6	Edwards	1/1/58
		7	Edwards	1/1/58
		8	Edwards	1/1/58
		9	Edwards	1/1/58
		10	Edwards	1/1/58
		11	Edwards	1/1/58
		12	Edwards	1/1/58
		13	Edwards	1/1/58
		14	Edwards	1/1/58
		15	Edwards	1/1/58
		16	Edwards	1/1/58
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		19	Edwards	1/1/58
		20	Edwards	1/1/58

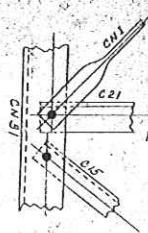
BLAW-KNOX DIVISION
 ERECTION DIVISION
 CONTRACT



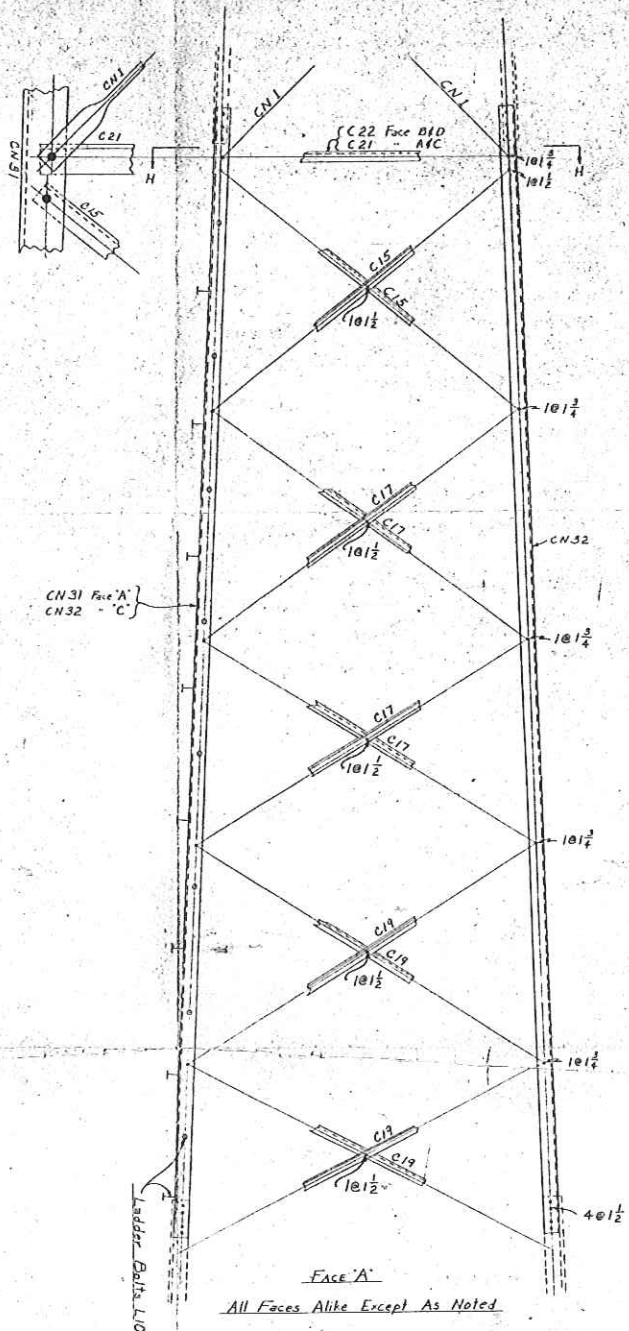
PIN OF TOWER
Views of all Faces Taken Looking
in Direction of Arrows.



Section H-H



TYPICAL BOLT ASSEMBLY
USE BOLT WHICH PROVIDES WITH TIGHT
TO TIGHTEN PLATE. IT IS VERY IMPORTANT
THAT BOLT BE TIGHTENED ON ALL BOTS IN THIS
MANNER.



PROF. NO.	DATE	REVISIONS
		1. Non-Standard
		2. Standard
		3. Standard
		4. Standard
		5. Standard
		6. Standard
		7. Standard
		8. Standard
		9. Standard
		10. Standard
		11. Standard
		12. Standard
		13. Standard
		14. Standard
		15. Standard
		16. Standard

THIS DRAWING AND THE SPECIFICATIONS OF CONTRACT ARE THE PROPERTY OF THE BLOW-KNOX COMPANY. IT IS NOT TO BE REPRODUCED OR COPIED, IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF THE BLOW-KNOX COMPANY.

BLOW-KNOX DIVISION

ERECTOR DIAGRAM
TYPE C1

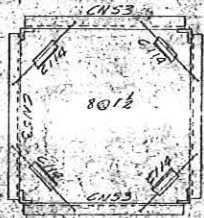
CONTRACT

DRAWING NO. P. 42117

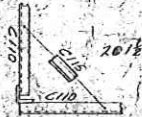
N
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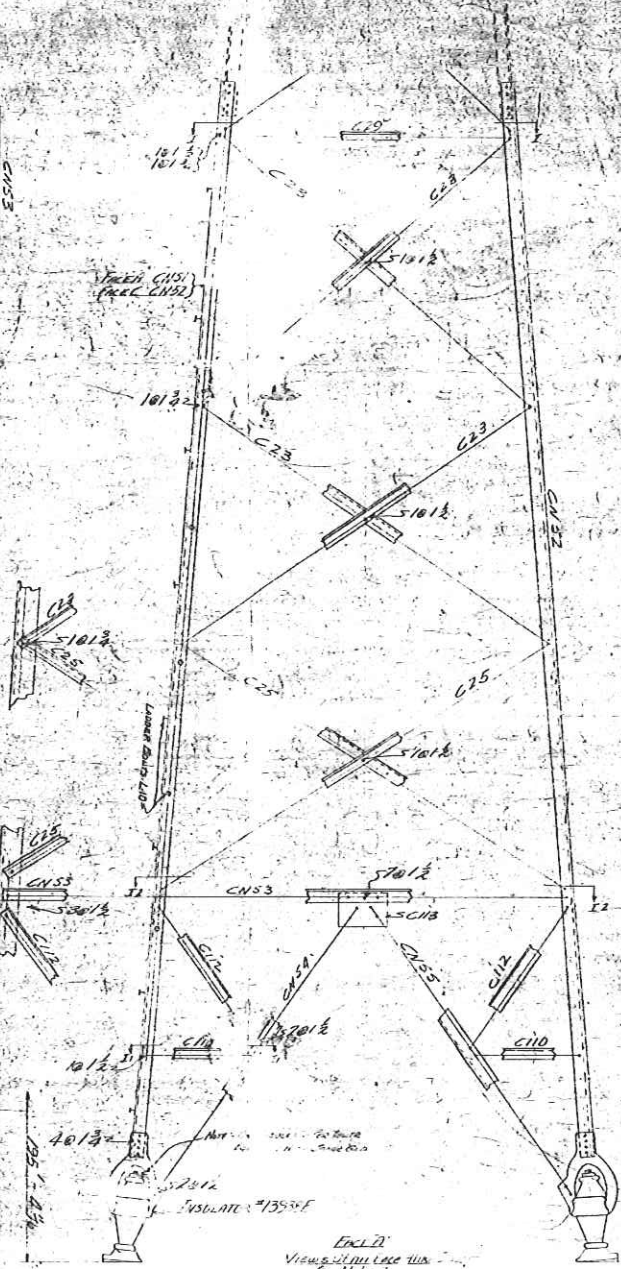
ECLIP' Section II



ECLIP' Section I'



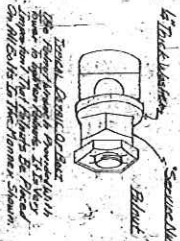
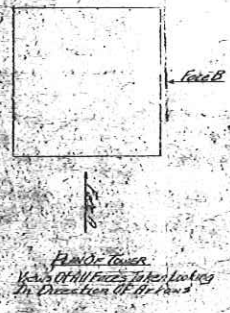
ECLIP' Section III



ECLIP' Views of Face etc. as Noted

TALON BOWL'S FACE DRAW	
NO. 1	NO. 2
NO. 3	NO. 4
NO. 5	NO. 6
NO. 7	NO. 8
NO. 9	NO. 10
NO. 11	NO. 12
NO. 13	NO. 14
NO. 15	NO. 16
NO. 17	NO. 18
NO. 19	NO. 20
NO. 21	NO. 22
NO. 23	NO. 24
NO. 25	NO. 26
NO. 27	NO. 28
NO. 29	NO. 30
NO. 31	NO. 32
NO. 33	NO. 34
NO. 35	NO. 36
NO. 37	NO. 38
NO. 39	NO. 40
NO. 41	NO. 42
NO. 43	NO. 44
NO. 45	NO. 46
NO. 47	NO. 48
NO. 49	NO. 50
NO. 51	NO. 52
NO. 53	NO. 54
NO. 55	NO. 56
NO. 57	NO. 58
NO. 59	NO. 60
NO. 61	NO. 62
NO. 63	NO. 64
NO. 65	NO. 66
NO. 67	NO. 68
NO. 69	NO. 70
NO. 71	NO. 72
NO. 73	NO. 74
NO. 75	NO. 76
NO. 77	NO. 78
NO. 79	NO. 80
NO. 81	NO. 82
NO. 83	NO. 84
NO. 85	NO. 86
NO. 87	NO. 88
NO. 89	NO. 90
NO. 91	NO. 92
NO. 93	NO. 94
NO. 95	NO. 96
NO. 97	NO. 98
NO. 99	NO. 100

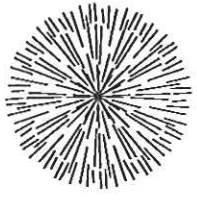
NO.	DESCRIPTION
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NOTE: THIS DRAWING IS FOR THE TOWER ONLY AND DOES NOT SHOW THE FOUNDATION OR THE GROUND LEVEL. THE FOUNDATION AND GROUND LEVEL ARE SHOWN IN THE ADJACENT DRAWINGS. THE TOWER IS TO BE BUILT ON A CONCRETE FOUNDATION. THE GROUND LEVEL IS TO BE THE SAME AS THE GROUND LEVEL SHOWN IN THE ADJACENT DRAWINGS.

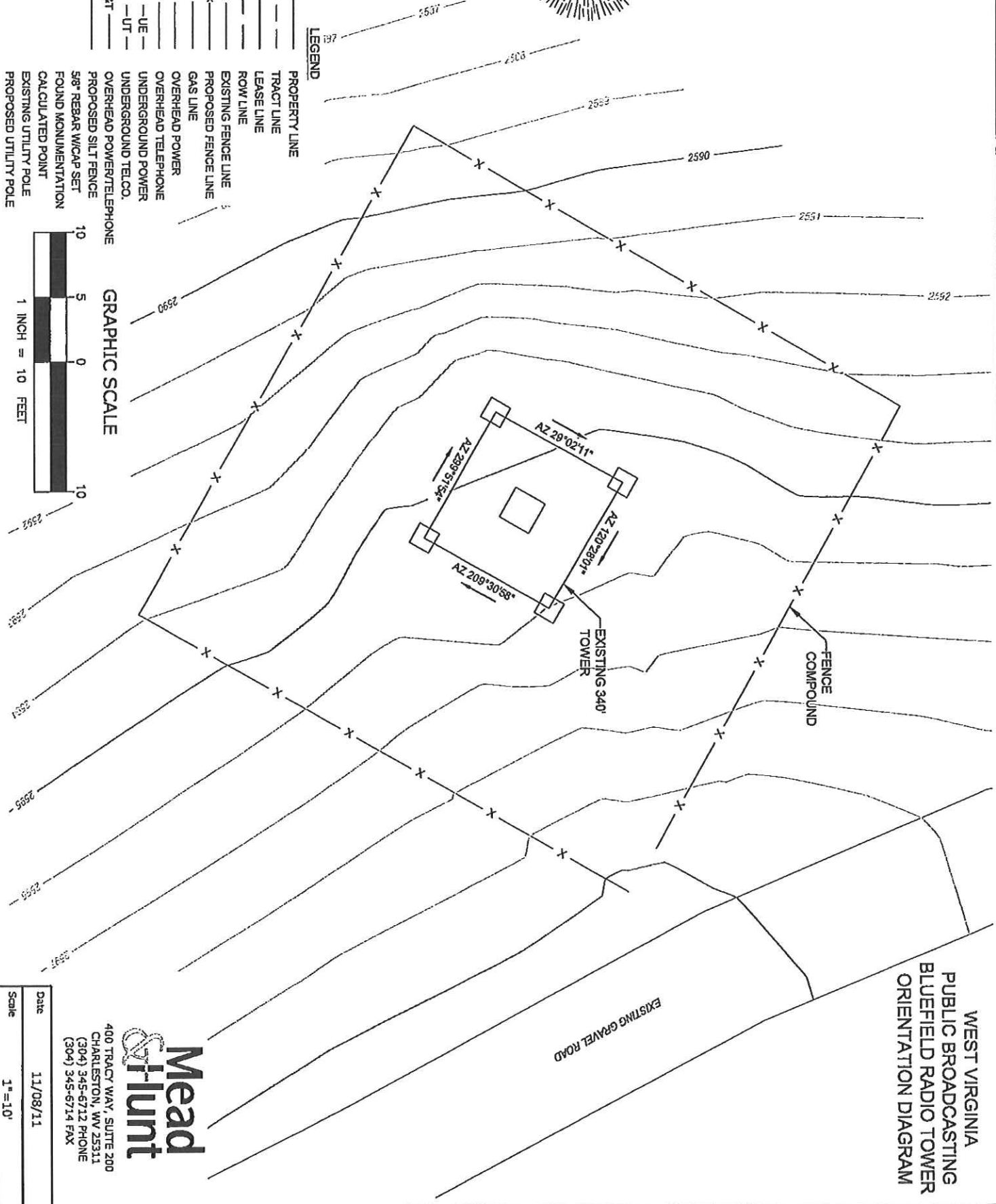
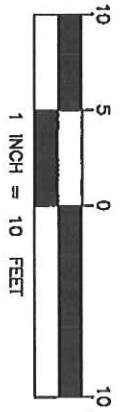
BLAW-KNOX DIVISION

7°34'W
CHANGING BY
3W/YEAR
MAGNETIC 11/2011
WV COORDINATE SYSTEM
OF 1883 SOUTH ZONE



- — — — — PROPERTY LINE
- — — — — TRACT LINE
- — — — — LEASE LINE
- — — — — ROW LINE
- — — — — EXISTING FENCE LINE
- — — — — PROPOSED FENCE LINE
- — — — — GAS LINE
- — — — — OVERHEAD POWER
- — — — — OVERHEAD TELEPHONE
- — — — — UNDERGROUND POWER
- — — — — UNDERGROUND TELCO
- — — — — OVERHEAD POWER/TELEPHONE
- — — — — PROPOSED SILT FENCE
- — — — — 5/8" REBAR W/ CAP SET
- — — — — FOUND MONUMENTATION
- — — — — CALCULATED POINT
- — — — — EXISTING UTILITY POLE
- — — — — PROPOSED UTILITY POLE

GRAPHIC SCALE

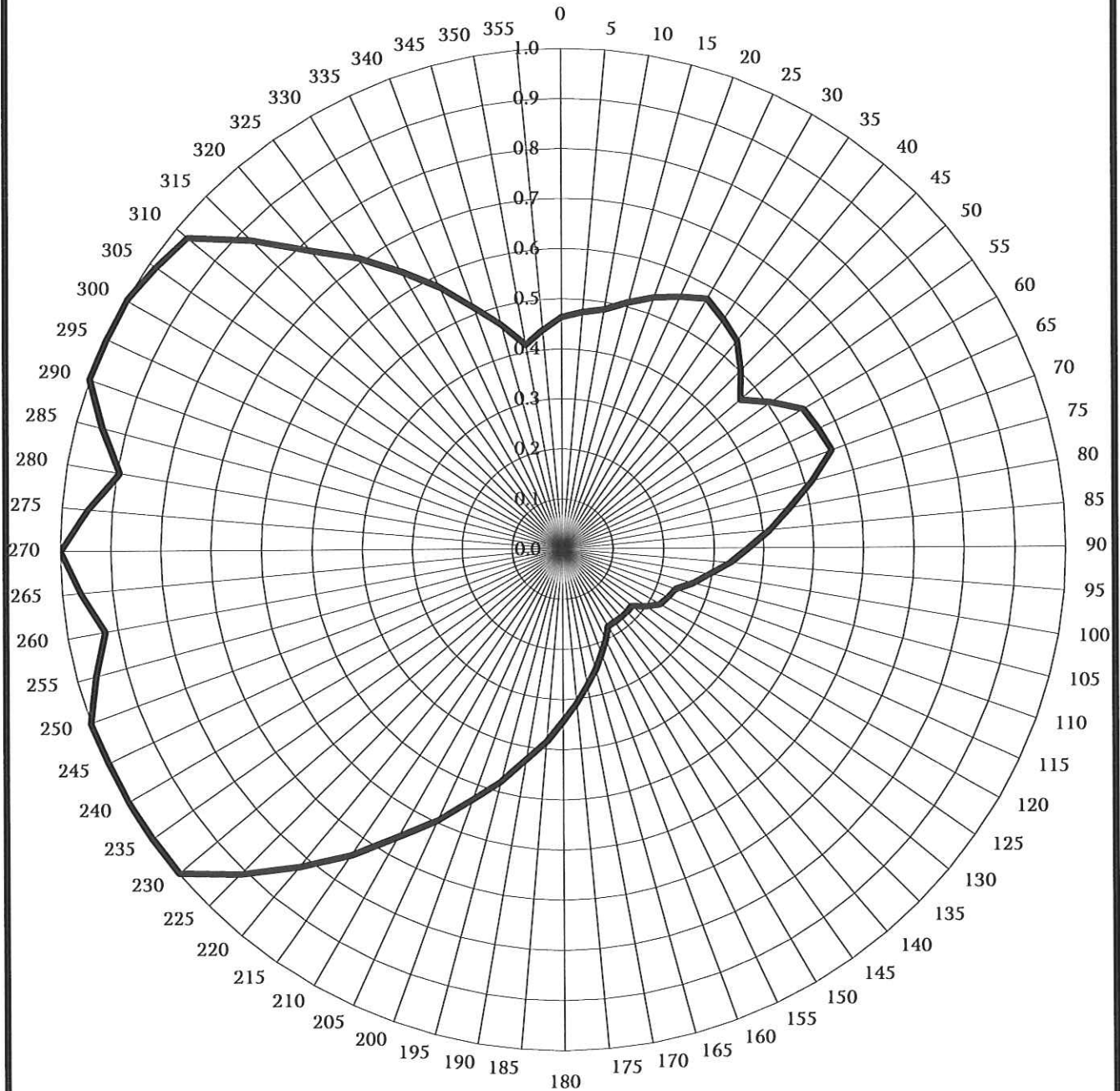


WEST VIRGINIA
PUBLIC BROADCASTING
BLUEFIELD RADIO TOWER
ORIENTATION DIAGRAM

Mead & Hunt
400 TRACY WAY, SUITE 200
CHARLESTON, WV 25311
(304) 345-6712 PHONE
(304) 345-6714 FAX

Date 11/08/11
Scale 1" = 10'

RELATIVE FIELD AZIMUTH PATTERN



KESSLER & GEHMAN
TELECOMMUNICATIONS CONSULTING ENGINEERS
507 N.W. 60th Street, Suite C
Gainesville, Florida 32607

WVDM(FM)
BLUEFIELD, WV

20110608

EXHIBIT 24.4

TABULATION OF RELATIVE FIELD FOR PROPOSED DIRECTIONAL ANTENNA

<u>AZIMUTH</u>	<u>RELATIVE FIELD</u>	<u>AZIMUTH</u>	<u>RELATIVE FIELD</u>
N000°E	0.463	N180°E	0.343
N010°E	0.486	N190°E	0.427
N020°E	0.534	N200°E	0.531
N030°E	0.575	N210°E	0.661
N040°E	0.541	N220°E	0.823
N050°E	0.462	N230°E	1.000
N060°E	0.555	N240°E	1.000
N070°E	0.571	N250°E	1.000
N080°E	0.459	N260°E	0.925
N090°E	0.369	N270°E	1.000
N100°E	0.296	N280°E	0.895
N110°E	0.238	N290°E	1.000
N120°E	0.222	N300°E	1.000
N130°E	0.178	N310°E	0.971
N140°E	0.178	N320°E	0.780
N150°E	0.178	N330°E	0.641
N160°E	0.222	N340°E	0.515
N170°E	0.276	N350°E	0.414

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with West Virginia Code, §5A-3-37. (Does not apply to construction contracts). West Virginia Code, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the West Virginia Code. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

- 1. Application is made for 2.5% resident vendor preference for the reason checked: Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2. Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
4. Application is made for 5% resident vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: _____ Signed: _____
Date: _____ Title: _____

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: _____

Authorized Signature: _____ Date: _____

State of _____

County of _____, to-wit:

Taken, subscribed, and sworn to before me this ____ day of _____, 20__.

My Commission expires _____, 20__.

AFFIX SEAL HERE

NOTARY PUBLIC _____