

GRAYSON COUNTY BOARD OF SUPERVISORS AND GRAYSON COUNTY PLANNING COMMISSION PUBLIC HEARING AGENDA GRAYSON COUNTY COURTHOUSE; INDEPENDENCE, VA THURSDAY, NOVEMBER 17, 2022 – 6:00 P.M.

Call to Order: Michael S. Hash Chairman – Board of Supervisors

Call to Order: Brian Walls, Chairman – Planning Commission

Opening Business:

- Invocation
- Pledge
- Decorum
 - Approval of BOS Agenda Michael S. Hash, Chairman, Board of Supervisors
 - Approval of GCPC Agenda Brian Walls, Chairman, Planning Commission

6:05 Joint Public Hearing:

 A Joint Public Hearing of the Grayson County Board of Supervisors and the Grayson County Planning Commission to receive public comment(s) regarding two (2) applications for Special Use Permits from:

#1 Applicant: Giga Beam Networks

Property Owner: Palmer W & Sidney S. Fant

Address: Park Place Drive

Tax Map No.: 37-A-17

Request: Special Use Permit to construct & operate a 140' Rohn

Tower for broadband expansion in Rural Farm District

District: Elk Creek Acreage: 46.00

#2 Applicant: GigaBeam Networks Property Owner: Richard McLean

Address: Woodbridge Ln, Independence

Tax Map No.: 54-A-6

Request: Special Use Permit to construct & operate a 140' Rohn

Tower for broadband expansion in Rural Farm District

District: Elk Creek Acreage: 7.995

6:15 Adjourn – Planning Commission

6:20 Close Session – Board of Supervisors

To discuss a personnel matter pursuant to §2.2-3711(A)(1) of the code of Virginia, involving discussions regarding applicants for County Administrator position.

8:15 Adjourn – Board of Supervisors

MEETING DECORUM-

All official meetings conducted within these chambers are to be observed by the following decorum:

- Behavior during all official meetings shall be consistent with the behavior exercised in any court or legislative room found within the Commonwealth of Virginia; and,
- There shall be no outbursts, booing, heckling or other forms of disrespectful behavior by any individuals present within these chambers; and,
- Persons wishing to speak shall do so respectfully and in accordance with the applicable Rules of Procedures and/or at the specific direction of the presiding official; and,
- Out of respect for the official business being conducted, for those conducting the official business and for those
 present for same purpose, there shall be no private conversations taking place in the audience or other forms of
 distractive behavior or nuisance; and,
- Please turn off cell phones and other such devices before entering these chambers.



GRAYSON COUNTY, VIRGINIA MEMORANDUM

DATE: November 2, 2022 (Joint Public Hearing 11/17)

TO: Grayson County Board of Supervisors and Planning Commission

FROM: Jada C. Black, Director of Planning and Zoning

SUBJECT: Application Special Use Permit, Giga Beam Networks_ Fant Site

REQUEST

Application No. 20220182 is a request for a Special Use Permit pursuant to Article 4 Section 4-6.2.i of the Grayson County Zoning Ordinance to authorize the construction and operation of a communications tower for wireless internet in an unserved area of Grayson County located on one parcel containing approximately 46 acres of land located off of Park Place Drive and further identified as Tax Map No. 37-A-17. The proposed communication tower will be located on Tax Map number 37-A-17. The property is zoned Rural Farm (RF) and is not designated in the Enterprise Zone or Opportunity Zone, and no Historical Structures were identified within the proximity of the subject parcel.

DESCRIPTION

- Property Owner: Palmer W. and Sidney S. Fant
- Location: Peach Bottom Road
- Area: Approximately 46 acres +/-
- Frontage: Peach Bottom Road

Parcel access via right of way through tax parcel

37-A-12 and 37-A-14

• <u>Utilities:</u> Solar panels are proposed for energizing the tower. Permission and access granted to add electrical service to the site should it become needed.

- <u>Topography:</u> Relatively rolling and slopping approximately 3550 feet in elevation.
- Zoning Classification: Rural Farm
- Existing Development: Vacant land, mostly forested

• Surrounding Development:

- o North: Primarily agricultural operations and forestry
- o East: Subject parcel adjoins vacant parcels, and the Pine Mountain Estate Subdivision is zoned Rural Residential. This subdivision includes fourteen parcels with a total of 119.210 acres and currently hosts two single-family dwellings and two under construction.
- o South: Primarily agricultural and forestry
- o West: Primarily forestry
- <u>Proposed Development:</u> 140' 45G Communications Tower for wireless internet in unserved areas in Elk Creek District

LOCATION, SITE PLAN, AND ROAD ACCESS

- 1. The subject parcel is 46 acres and is located in the Elk Creek District, bound by primarily vacant forested and agricultural farmland. The nearest direct route from Peach Bottom Road through two parcels owned by the Fant Family.
- 2. The property is designated Rural Farm. Research indicates the area has no historical references through the Virginia Historical Society and is not designated within the Enterprise Zone.
- 3. Adjacent properties surrounding the subject parcels are all designated as Rural Farm. Further southeast Pine Mountain Estate Subdivision is zoned Rural Residential.
- 4. Engineered design plans for the proposed tower and additional reference material include the following details: **Reference No. 1**
 - Construction Details
 - Micro Site Lease Agreement of approximately .3 acres with a term to be determined between lessor and lessee.
 - Color- Hot-Dipped Galvanized Steel Construction
 - Excavation Area is minimal pier footings as required for tower construction. Minimal tree removal will be required for tower location.
 - Tower Specs- 45G self-supporting ladder tower, overall height 140' Vegetation on site will screen any local impact view. Tower constructed less than the requirements and will meet FAA

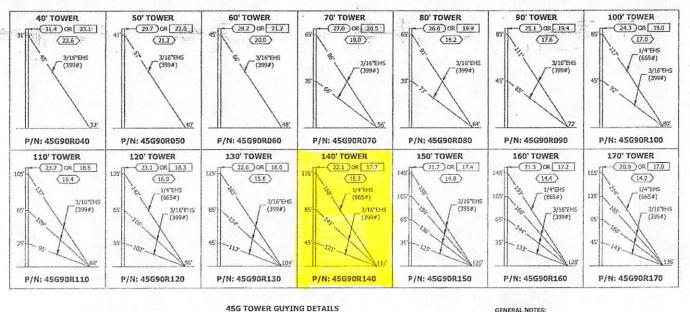
- approval. Construction will meet FCC, Building Code Requirments, and other applicable Federal and State standards.
- Nearest residents property line is 1775 feet away from the wireless tower.
- Nearest adjacent property line (Bealer)is 150 ft.
- Fencing- Giga Beam has requested a variance for the fencing, a formal letter of request can be located in the reference pages attached.

OTHER APPLICABLE REQUIREMENTS

- Giga Beam Networks SUP Application Reference Page No. 2
- Co-location policy the proposed tower will allow co-location of government access for emergency services free of charge. Reference No. 3
- VARIANCE REQUEST- Fencing and Setbacks Reference No. 4
- Comprehensive Plan consistency Section 8-1 Support and encourage the development of advanced communication infrastructure, broadband, wireless internet, and <u>cell</u> coverage/towers (5-11)
- Photo simulation pictures provided Reference No. 5
- No hazard to air traffic determination Reference No. 6
 - o FAA requirements for lighting do not apply per §17.7 Antenna structure requiring notification to the FAA.

RECOMMENDATION

For the purpose of public necessity, convenience, general welfare, public safety, and health or good zoning practice. Staff recommends to the Planning Commission approval for a Special Use Permit for a Communications Tower on parcel tax map number 37-A-17 in the Rural Farm Zone, Elk Creek District. The site will be developed as specified in the submitted plans and application and in accordance with Article 3-15 of the Zoning Ordinance and the Uniform Statewide Building Code.



40' - 170'

90MPH 3-SECOND GUST WIND SPEED

NO ICE (REV G)

70 MPH FASTEST MILE WIND SPEED NO ICE (REV F)

ROD

ANGLE

45

46

43

4.3

41

42

42

40

39

40

39

38

37

ANCHOR DATA

(DWG: B090550)

ROD NO.

GAC3455TOP

GAC345STOP

GAC3455TOP

GAC3455TOP

GAC3455TOP

GAC3455TOP

GAC3455TOP

GAC3455TOP

GAC34551DP

GAC3455TOP

ABZ GAC3455TOP

AB2 GAC3455TOP

ABZ GAC3455TOP

AB2 GAC3455TOP

BLOCK

NO.

AB2

AB2

AR7

AB2

AB2

AB2

AB2

ABZ

AB2

A82

GENERAL NOTES:

1. TOWER DESIGNS ARE IN ACCORDANCE WITH ANSI/TIA-222-F & ANSI/TIA-222-G, CLASS I STRUCTURES.

 Callowable Proj. AREA (SQ. FT.) FOR EXPOSURE 8 - (REV G) ALLOWABLE PROJ. AREA (SQ. FT.) FOR EXPOSURE C · (REV G).

ALLOWABLE PROJ. AREA (SQ.FT.) - (REV F).

3. EFFECTIVE PROJ. AREAS MUST NOT EXCEED THE AREAS SHOWN.

4. ANTENNAS AND MOUNTS ARE ASSUMED SYMMETRICALLY PLACED AT THE TOWER TOP.

5. DESIGNS ASSUME TWO 1/2" DIA. LINES ON EACH TOWER FACE. 6. FOR GUY HARDWARE INSTALLATION DETAILS, SEE DWG. A871382.

7. ANCHOR RADIUS IS FROM TOWER BASE TO INTERSECTION OF ROD WITH GROUND.

 TOWER DESIGNS AND GUY CHORD LENGTHS SHOWN ARE BASED ON LEVEL GROUND. ADD 6 PERCENT TO CHORD LENGTHS (FOR SAG AND CONNECTIONS) FOR FINAL CUT LENGTHS. () INDICATES INITIAL TENSION FOR GUY WIRES IN POUNDS AT 60 DEGREES FAHRENHEIT

DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.

10. TOWER ERECTION AND DISMANTLING MUST BE DONE BY QUALIFIED AND EXPERIENCED PERSONNEL 11. TEMPORARY STEEL GUYS, WHEN REQUIRED DURING ERECTION OR DISMANTLING,

MUST BE SUPPLIED AND INSTALLED BY THE ERECTOR.

12. INSTALL WARNING PLATE (P/N: ACWS) IN A HIGHLY VISIBLE LOCATION, 13. ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.

14. EXTRA CABLE CLAMPS HAVE BEEN PROVIDED FOR TURNBUCKLE SAFETY REQUIREMENTS. FOR DETAILS SEE DWG. 8680324 LATEST REVISION.

15. PURCHASER SHALL VERIFY THE INSTALLATION IS IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS FOR OBSTRUCTION MARKING AND LIGHTING.

16. TOLERANCE ON TOWER STEEL IS EQUAL TO PLUS 1% AND MINUS 1/2%.

17. DESIGNS ASSUME THAT, AS A MINIMUM, MAINTENANCE AND INSPECTION WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE IN ACCORDANCE WITH ANSI/TIA/EIA-222-G.

18. ANCHOR RODS CORROSION PROTECTION METHODS TO BE PROVIDED BY OTHERS.

Standard-45G DESCRIPTION REVERED NOTE #5 PROM TONE 1/2 DIA LINET TO TIMO 1/2" DIA DATE ANYTHER

DWG REFERENCE



PG BOX 5999 PEORIA, IL 61601-5999 TOLL FREE 800-727-ROHN

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SECTION ASSEMBLY 45G/90MPH 3-SECOND GUST/NO ICE

ATE: Feb/09/2010

DWG-0105-1

-SEE NOTE 7

120°0'0'

NOTE: FOR SPACE REQUIREMENTS

TOWER PLAN (TYP)

GROUND LINE

FOR GUY CONN

DETAILS SEE DWG.#

SEE DWG. NO. C640531

ROD ANGLE

IN DEGREES

BASE PIER

TOWER

HT.

40*

50'

60'

RO

90'

100"

120*

130

140'

150"

160'

170

(DWG: B090549)

CBIG

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FOUNDATION AND ANCHOR TOLERANCES ALL FOUNDATIONS

- 1. CONCRETE DIMENSIONS PLUS OR MINUS 1" (25mm).
- 2. DEPTH OF FOUNDATION PLUS 3" (76mm) OR MINUS 0".
- 3. DRILLED FOUNDATIONS OUT OF PLUMB 1.0 DEGREE.
- 4. REINFORCING STEEL PLACEMENT PER A.C.I. 301.
- 5. PROJECTION OF EMBEDMENTS PLUS OR MINUS 1/8" (3mm).
- 6. VERTICAL EMBEDMENTS OUT OF PLUMB 0.5 DEGREE.

ANCHOR BOLTS

- MAXIMUM DISTANCE FROM CENTERLINE OF ANCHOR BOLTS TO CENTERLINE OF FOUNDATION - 1/24 OF PIER DIAMETER UP TO A MAXIMUM OF 2" (51mm).
- 8. ANCHOR BOLT SPACING 1/16" (2mm).
- 9. ANCHOR BOLT CIRCLE ORIENTATION 0.25 DEGREE.
- 10. ANCHOR BOLT CIRCLE DIAMETER PLUS OR MINUS 1/16" (2mm).

SELF-SUPPORTING TOWERS

- FACE SPREAD DIMENSION CENTER TO CENTER OF ANCHOR BOLT CIRCLES -PLUS OR MINUS 1/16" (2mm) OR 1/16" (2mm) PER 20 FT. (6m) OF FACE SPREAD.
- 12. MAXIMUM DIFFERENCE BETWEEN ANY TWO FOUNDATION ELEVATIONS $1/2^{\omega}$ (13mm).

GUYED TOWERS

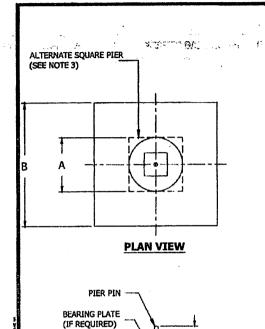
- 13. GUY RADIUS PLUS OR MINUS 5% OF DISTANCE SPECIFIED.
- 14. ANCHOR ELEVATION PLUS OR MINUS 5% OF GUY RADIUS.
- 15. ANCHOR ALIGNMENT (PERPENDICULAR TO GUY RADIUS) 1.0 DEGREE.
- 16. ANCHOR ROD SLOPE PLUS OR MINUS 1.0 DEGREE.
- 17. ANCHOR ROD ALIGNMENT WITH GUY RADIUS PLUS OR MINUS 1.0 DEGREE.
- 18. ANCHOR HEAD OUT OF PLUMB 1.0 DEGREE.
- 19. GUY INITIAL TENSION PLUS OR MINUS 10% OF TENSION SPECIFIED.

NOTE: TOLERANCES IN NOTES 13 AND 14 CAN NOT OCCUR SIMULTANEOUSLY

WARNING!!!

AFTER ANCHOR BOLTS ARE INSTALLED IN CONCRETE HAS TAKEN ITS INITIAL SET, ANCHOR BOLTS MUST NOT BE MOVED, BENT OR REALIGNED IN ANY MANNER. A NUT LOCKING DEVICE MUST BE INSTALLED ON ALL ANCHOR BOLTS.

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4" PRO).

ELEVATION VIEW

CT NO.	TOWER BASE			DIMENS	SNOTE			BEARING	CONC. (CU. YDS	VERTICAL BARS	HORIZ, BAI IN PAD
CB NO.	REACTION (LBS)	* A	В	С	D	E	F	PLATE	RD PIER)	(NO. & SIZE)	
16	12,000	2'-6"	2'-6"	0	4'-0"	0	0	BP6	0.80	8 NO. 7	NONE
2G	17,000	3'-0"	3'-0"	0	4'-0"	0	0	BP6	1.20	10 NO. 7	NONE
3G	23,000	3'-6"	3'-6"	0	4'-0"	0	0	BP6	1.60	12 NO. 7	NONE
4G	30,000	4'-0"	4'-0"	0	4'-0"	0	0	BP6	2.10	12 NO. 8	NONE
5G	38,000	2'-0"	4'-0"	1'-0"	4'-0"	3'-3"	1'-3"	BP6	1.10	8 NO. 6	5 NO. 5
6G	48,000	2'-0"	4'-6"	1'-3"	4'-0"	3'-3"	1'-3"	BP6	1.30	8 NO. 6	6 NO. 5
7G	58,000	2'-0"	5'-0"	1'-6"	4'-6"	3'-9"	1'-3"	BP10	1.60	8 NO. 6	6 NO. 5
8G	71,000	2'-0"	5'-6"	1'-9"	4'-6"	3'-9"	1'-3"	BP10	1.80	8 NO. 6	7 NO. 5
9G	84,000	2'-0"	6'-0"	2'-0"	4'-6"	3'-6"	1'-6"	BP10	2.40	8 NO. 6	7 NO. 6
10G	99,000	2'-0"	6'-6"	2'-3"	4'-6"	3'-6"	1'-6"	BP10	2.80	8 NO. 6	8 NO. 5
11G	111,000	2'-6"	7'-0"	2'-3"	5'-0"	3'-9"	1'-9"	BP15	3.90	8 NO. 7	8 NO. 6
12G	127,000	2'-6"	7'-6"	2'-6"	5'-0"	3'-9"	1'-9"	BP15	4.30	8 NO. 7	9 NO. 6
13G	145,000	2'-6"	8'-0"	2'-9"	5'-0"	3'-9"	1'-9"	BP15	4.80	8 NO. 7	9 NO. 6
14G	162,000	3'-0"	8'-6"	2'-9"	5'-0"	3'-6"	2'-0"	BP15	6.30	12 NO. 7	9 NO. 7
15G	182,000	3'-0"	9'-0"	3'-0"	5'-0"	3'-6"	2'-0"	BP15	6.90	12 NO. 7	10 NO.

ALTERNATE SQUARE PIER #4 CIRCULAR TIES 3" ON CENTERS W/ 24" LAPS

SECTION A-A

(2) NO. 4 CIRCULAR TIES @ 2-1/2"

VERTICAL BARS EQUALLY SPACED

(SEE CHART FOR NO. & SIZE)

O.C. W/ 2" COVER W/ 24" LAPS. NO. 4 CIRCULAR TIES AT 3" MAX. O.C. W/ 24" LAPS.

VERTICAL RE-BARS EQUALLY SPACED W/ 90° HOOKS AT BOTTOM (SEE CHART FOR NO. & SIZE)

ROUGHEN CONSTRUCTION JOINT TO A FULL AMPLITUDE OF 1/4" -FOUNDATION PAD

HORIZONTAL REINFORCING STEEL EQUALLY SPACED EACH WAY (SEE CHART FOR NO. & SIZE)

- NOTES: 1. SEE TOWER ASSEMBLY DRAWING FOR FOUNDATION LAYOUT AND PART NUMBERS FOR BEARING PLATE & PIER PIN.
- 2. SEE DRAWING NUMBER B090548 FOR STANDARD FOUNDATION NOTES.
- *3. USE MIN. 2'-6" SQ. OR 3'-0" DIA. ROUND PIER WHEN BPC45G OR BPC55G IS USED.
- 4. VERTICAL REINFORCING STEEL SHALL BE REPLACED WITH STRAIGHT BARS WHEN NO PAD IS REQUIRED.
- 5. HORIZ. BARS IN CHART REFER ONLY TO THE BARS IN THE FOUNDATION PAD.

DWG REFERENCE

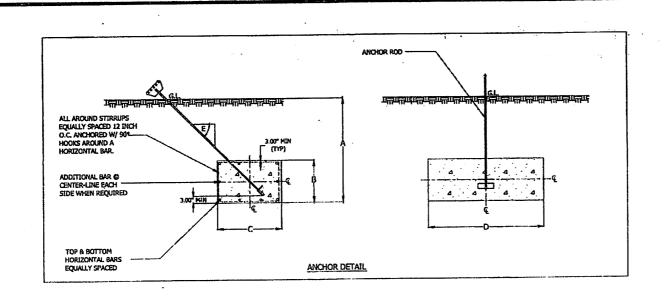
STDPUBLIC

PEORIA, N. 51504 TOU FREE 800-727-ROHM

THE COMMING IS THE PROPERTY OF AGREE IT IS NOT TO BE MODULED, COMED ON TRACED BY WINGLE ON SPINNEY WITHOUT DAY OFFETTING COMMINS.

Foundation Base Pier-For Rev. G presumptive Clay

DATE: HA Nov/24/2009 FAD 0 8090549



	CONCRETE ANCHOR BLOCK DATA FOR ANSI/TIA-222-G PRESUMPTIVE CLAY SOIL												
		WCHOR DIN			HORIZONTAL BARS	STIRRUPS SIZE &	CONCRETE VOL	UPLIFT	LATERAL				
BLOCK	A	B	C	D .	QTY./SIZE	SPACING	(CU. YDS.)	CAPACITY(LBS)	CAPACITY(LDS)				
AB1	3/0*	1'-0"	3'-0"	4'-0"	(8) #5 BARS TOTAL (4) #5 BARS TOP AND BOTTOM LAYERS (0) ADDITIONAL BAR EACH SIDE	#3 @ 12" O.C.	0.44 PER BLOCK 1.3 TOTAL FOR 3	4,800	2,150				
A/82	4'-0*	1'-6"	4'-0"	6'-0*	(10) #6 BARS TOTAL (5) #6 BARS TOP AND BOTTOM LAYERS (0) ADDITIONAL BAR EACH SIDE	#3 @ 12" O.C.	1.33 PER BLOCK 4.0 TOTAL FOR 3	12,600	6,480				
AB3	6-0"	1'-6"	3'-0"	6-0	(8) #6 BARS TOTAL (4) #6 BARS TOP AND BOTTOM LAYERS (0) ADDITTONAL BAR EACH SIDE	#3 @ 12" O.C.	1.0 PER BLOCK 3.0 TOTAL FOR 3	18,700	10,500				
AB4	6:-0°	1'-6"	4'-0"	9'-0"	(10) #6 BARS TOTAL (5) #6 BARS TOP AND BOTTOM LAYERS (0) ADDITIONAL BAR EACH SIDE	#4 @ 12" O.C	2.0 PER BLOCK 6.0 TOTAL FOR 3	32,500	15,800				
ABS	8'-0"	2'-0"	3'-0"	10'-0"	(10) #7 BARS TOTAL (4) #7 BARS TOP AND BOTTOM LAYERS (1) ADDITIONAL BAR EACH SIDE	#4 @ 12° O.C.	2.22 PER BLOCK 6.7 TOTAL FOR 3	43,000	21,000				
A86	8:-0*	z:-0*	4'-0"	10'-0"	(12) #7 BARS TOTAL (5) #7 BARS TOP AND BOTTOM LAYERS (1) ADDITIONAL BAR EACH SIDE	#4 @ 12" O.C.	2.96 PER BLOCK 8.9 TOTAL FOR 3	52,000	26,500				

(SEE TOWER ASSEMBLY DRAWING FOR ANCHOR ROD SLOPE "E".)

EN	ERA	L NO	TES

- 1. SEE DRAWING NUMBER B090548 FOR STANDARD FOUNDATION NOTES.
- 2. ALL HORIZONTAL BARS MUST BE CONTINUOUS.
- 3. DUE TO VARIABLES INVOLVED DURING INSTALLATION, IT SHALL BE THE CUSTOMER'S OR INSTALLER'S RESPONSIBILITY TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR BASE AND ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER TO DETERMINE THAT INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.
- 4. ADDITIONAL CORROSION PROTECTION MAY BE REQUIRED FOR STEEL GUY ANCHORS IN DIRECT CONTACT WITH SOIL

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W	6719 WEST FLARK IN FEORMA, IL SIGNI TOLL FIRE (SD-977A-S) FINE SD-977A-S FINE SD-977A-S FINE SD-97A-S FOUNDATION CHOR BLOCK REV. G PRE-	CHAP	TIVE	
W	5719 WEST PLANK IN PEORIAL IL SISSON TOLL FIRE SDO-777-N TST UNITED STATES OF STATES OF STATES OF STATES OF STATES OF STATES FOUNDATION CHOR BLOCK REV. G PRES BY: 0000:	CHIP SUMP	TIVE	CLAY
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3 6	FOUNDATION FOOD IN A SISSON TOLL FIRE SDO-77% FOUNDATION CHOR BLOCK REV. G PRES THA GR. HA GR. HA	CHIP SUMP	TIVE E: w/24/	CLAY 2009

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STANDARD FOUNDATION NOTES ANSI/TIA-222-G

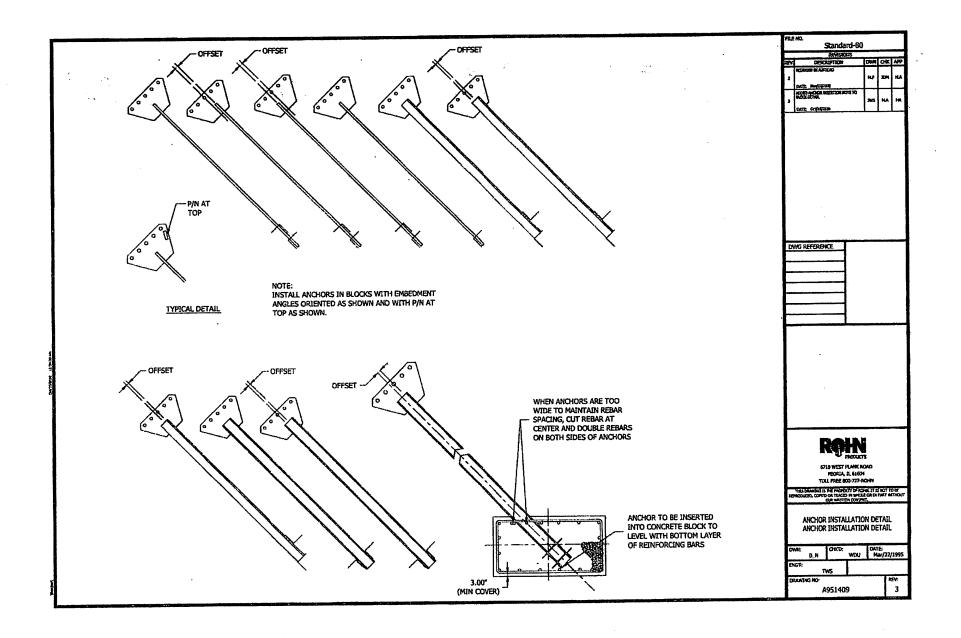
 STANDARD POUNDATION DESIGNS ARE IN ACCORDANCE WITH ANSI/TIA-222-G, "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES", SECTION 9 AND ANNEX F FOR THE FOLLOWING PRESUMPTIVE CLAY SOIL PARAMETERS:

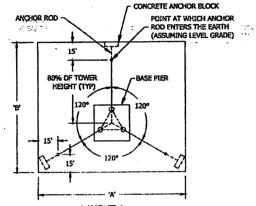
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			(deg) [idv/m3]	[iPa]	Shallow Fnds.	Deep Fnds.	(lcs)		
	8 [26]	0	110 [17]	1000 [48]	5000 (240)	9000 [431]	500 (24)	150 [41,000]	0.01

- THE PURCHASER MUST VERIEY THAT ACTUAL STIE SOIL PARAMETERS MEET OR EXCEED
 ANSI/TIA-222-G PRESUMPTIVE CLAY SOIL DESIGN PARAMETERS AND THAT THE PERETRATION
 AND/OR ZONE OF SEASONAL MOISTURE VARIATION AT THE STAF POUNDATION DESIGN
 MODEFICATIONS MAY BE REQUIRED IN THE EVENT PRESUMPTIVE CLAY SOIL PARAMETERS ARE NOT
 APPLICABLE FOR THE ACTUAL SUBSURFACE CONDITIONS ENCOUNTERED.
- A SITE-SPECIFIC INVESTIGATION IS REQUIRED FOR CLASS III STRUCTURES IN ACCORDANCE WITH INSTITUTE 222.6
- 4. FOUNDATION DESIGNS ASSUME FIELD INSPECTIONS WILL BE PERFORMED BY THE PURCHASER'S REPRESENTATIVE TO VERIET THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON THE CONDITIONS EXISTING AT THE CITY.
- 5 WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACT 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", PROCEDURES FOR THE PROTECTION OF EXCLAPATION, EXISTENG CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOLKDATION INSTALLATION.
- CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
- 7. PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED ASGRESSIVE ACTIONS. THE DURABLITY REQUIREMENT OF ACI 318 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MURIPAUM, CONCRETE SHALL DEVELOP A MUNICIPAL CONCRESSIVE STRENGTH OF 4000 PSI (27.6 PM) IN 28 DAYS.
- 6. MAZINUM SIZE Cº AGGREGATE S'ALLI NOT DOCED SIZE SUTIABLE FOR INSTALIATION NETHOD UTILIZED OR 1/3 CIEVA DISTANCE BEHIND OR SETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SICH AS VIERATING WILL PREVETI MONEYCOMES OR VOIDS.
- REDIFFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615
 GRADE 60 URLESS OTHERWISE NOTED, SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED
 LINLESS OTHERWISE DIOICATED.
- 10. REINFORCING CAGES SHALL BE BRACED TO RETAIN PROPER DIMENSIONS DURING HANDLING, THROUGHOUT PLACEMENT OF CONCRETE AND DURING EXTRACTION OF TEMPORARY CASING.
- 11. WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.

- 12. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES (76 mm) UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH (76 mm) NORIMUM COVER ON REINFORCEMENT. CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 3 INCHES (76 mm) NOR BE LESS THAN 2 INCHES (51 mm).
- SPACERS SHALL BE ATTACHED INTERNITTENTLY THROUGHOUT THE ENTIRE LENGTH OF VERTICAL REINFORCING CAGES TO INSURE CONCENTRIC PLACEMENT OF CAGES IN EXCAVATIONS.
- 14. FOUNDATION DESIGNS ASSUME STRUCTURAL BACKFILL TO BE COMPACTED 14 8 INCH (200 mm) NAXDRUM LAYERS TO 95% OF MAXDRUM BRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM DOSB. ADDITIONALLY, STRUCTURAL BACKFILL MUST HAVE A MINIMUM COMPACTED UNIT WEIGHT OF 100 POUNDS PER CUBIC FOOT (15 km/km).
- 15. FOUNDATION DESIGNS ASSUME LEVEL GRADE AT THE SITE.
- 16. FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL INVOVAEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
- 17. FOR FOUNDATION AND ANCHOR TOLERANCES SEE DRAWING ABI0214.
- LOOSE NATERIAL SHALL BE REMOVED FROM BOTTOM OF CXCAVATION PRIOR TO CONCRETE PLACEMENT, SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
- CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE
 NATERIALS, INFLITRATION OF WATER OR SOIL AND OTHER OCCURRENCES WHICH MAY OCCREASE
 THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- 20. PREE PALL CONCAFTE HAY BE USED PROVIDED FALL IS VERTICAL DOWN WITHOUT HITTING SUBS OF EXCAVATION, FORMWORK, REINFORCING BARS, FORM TIES, CAGE BRACING OR OTHER OSTRUCTIONS, LINDER NO CIRCUMSTRANCES SHALL CONDRETE FALL THROUGH WATER.
- COHCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL EXCEPT FOR PIERS OR PIER AND PAD FOUNDATIONS. FORMS FOR PIERS SHALL BE REPHOVED PRIOR TO PLACING STRUCTURAL BACKFILL.
- CONSTRUCTION JOINTS, IF REQUIRED IN MER MUST BE AT LEAST 12 INCHES (305 mm) BELOW BOTTOM OF EMBEDMENTS AND MUST BE INTENTIONALLY ROUGHERED TO A FILL AMPLITUDE OF 1/4 INCH (6 mm), FOLINDATION DESIGN ASSUMES NO OTHER CONSTRUCTION JOINTS.
- 23. CASING, IF USED, SHALL NOT BE LEFT IN PLACE. EQUIPMENT, PROCEDURES, AND PROPORTIONS OF CONCRETE MERCHLS SHALL INSURE CONCRETE WILL NOT BE ADVENSELY DISTURBED UPON CASING REMOVAL. DRILLING FLUID, IF USED, SHALL BE FALLY DISPLACED BY CONCRETE AND SHALL NOT BE DETRIMENTAL TO CONCRETE OR SURROUNDING SOIL. CONTAMINATED CONCRETE SHALL BE REMOVED FROM TOP OF FOURDATION AND REPLACED WITH FRESH CONCRETE.
- 24 TOP OF FOUNDATION SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISHED. EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" (19 mm x 19 mm) MINIKUPL
- 25. FOR ANCHOR BLOCK TYPE FOURDATIONS, FOR GUYED TOWERS, ADDITIONAL CORROSION PROTECTION MAY BE REQUIRED FOR STEEL GUY ANCHORS IN DIRECT CONTACT WITH SOIL. DESIGN ASSUMES PERIODIC INSPECTIONS WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE TO DETERMINE IF ADDITIONAL ANCHOR CORROSION PROTECTION MEASURES MUST BE IMPLEMENTED BASED ON OBSERVED SITE-SPECIFIC CONDITIONS.

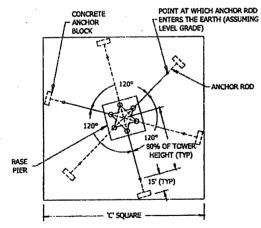
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LAYOUT A

THIS IS THE MINIMUM AREA OF LAND REQUIRED. HOWEVER, THIS AREA WILL NOT ALWAYS PERMIT ORIENTING TOWER INTO THE BEST POSITION FOR ANTENNA PATH DIRECTION.



LAYOUT B

THIS IS THE MINUMUM AREA OF LAND REQUIRED TO PERMIT ORIENTING THE TOWER IN ANY POSITION FOR ANTENA PATH DIRECTION.

TOWER		AYOUT A	٠ ·	LAYO	UT B
HEIGHT	ACRES	Α	В	ACRES	С
20'	80.0	60'	55'	0.10	65'
30'	0.12	75'	70'	0.15	80'
40'	0.17	90'	80'	0.21	95'
50'	0.21	100'	90'	0.28	110'
60'	0.28	115'	105'	0,39	130'
70'	0.35	130	115'	0.48	145
80'	0.43	145'	130'	0.59	160'
90'	0.50	155'	140'	0.70	175'
100'	0.59	170'	150'	0.83	190'
110'	0,70	185	165	1.01	210'
120'	0.80	300,	175'	1.16	225'
130	0.94	215'	190	1.32	240'
140'	1.04	225	200'	1.49	255'
150,	1.16	240	210	1.67	270'
160,	1.32	255'	225'	1.93	305'
170'	1.46	270	235' 250'	2.14	320'
180'	1.64	285'	260'	2.58	335'
190'	1.76	295' 310'	270'	2.81	350
210	2.13	325'	285'	3.14	370
220	$\frac{2.13}{2.31}$	340'	295'	3.40	385
230	2.50	350	310'	3.67	400'
240'	2.68	365'	320	3.95	115
250	2.88	380	330	4.24	430
260	3.13	395	345'	4.65	450
270'	3.34	410'	355'	4.96	465'
280	3.57	420'	370	5.29	480'
290	3.80	435'	380'	5.63	495'
300	4.03	450	390'	5.97	510'
310'	4,33	465'	405'	6.45	530'
320'	4.53	475	415'	6.82	545'
330'	4.84	490'	430'	7.20	560'
340'	5.10	505'	440'	7.59	575'
350'	5,37	520	450'	8.00	590'
360'	5.71	535'	465'	8.54	610'
370'	5.94	545'	475'	8.97	625'
380'	6,30	560'	490'	9,40	640'
390,	6.60	575'	500'	9.85	655'
400'	6.91	590'	510'	10.31	670'
410'	7.23	600,	525'	10.93	690,
420'	7.55	615'	535'	11.41	705'
430'	7.96	630'	550'	11,90	720'
440'	8.29	645'	560'	12.40	735'
450'	8.64	660'	570'	12.91	750'
460'	9.00	670'	585	13.61	770'
470'	9.36	685'	595	14.15	785'
480'	9.80	700'	610'	14.69	800,
490'	10.18	715'	620	15.25	815'
500'	10.49	725'	630'	15.81	830,

TOWER		AYOUT /	١	LAYO	UT B
TOWER	ACRES	A	В	ACRES	С
550	12.59	795'	690'	19.01	910'
600	14.89	865	750'	22,50	990'
650'	17.39	935'	810'	26.28	1070'
700'	19.97	1000'	870'	30.36	1150'
750	22.85	1070	930'	34.73	1230'
800,	25.91	1140'	990'	39.40	1310
850'	29.17	1210	1050	44.35	1390'
900'	32.62	1280'	1110'	49.61	1470'
950'	36.26	1350'	1170	55.15	1550'
1000'	40.10	1420'	1230'	61.00	1630'
1050	43.98	1485'	1290'	67.13	1710'
1100'	48.19	1555'	1350'	73.56	1790
1150	52.60	1625'	1410'	80.28	1870
1200'	57.20	1695'	1470'	87.30	1950'
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GENERAL NOTES

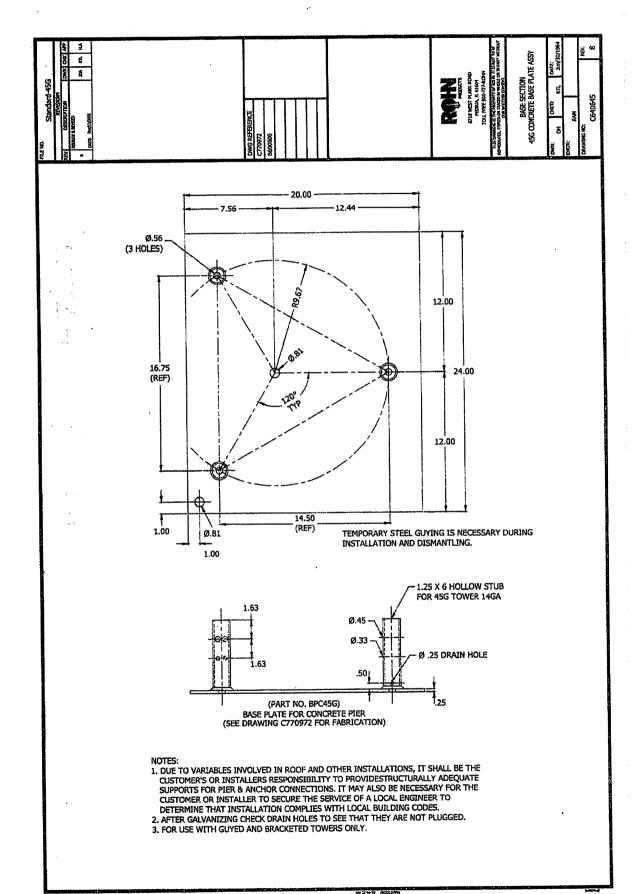
- 1. DUE TO VARIABLES INVOLVED IN ROOF AND OTHER INSTALLATIONS, IT SHALL BE THE RESPONSIBILITY OF THE CUSTOMER OR INSTALLER TO PROVIDE STRUCTURALLY ADEQUATE SUPPORTS FOR PIER AND ANCHOR CONNECTIONS. IT MAY ALSO BE NECESSARY FOR THE CUSTOMER OR INSTALLER TO SECURE THE SERVICE OF A LOCAL ENGINEER TO DETERMINE THAT THE INSTALLATION COMPLIES WITH LOCAL BUILDING CODES.
- 2. FOR RESTRICTED SITES, CUSTOM DESIGNS WITH STRONGER MASTS AND LARGER GUYS MAY BE PROVIDED BY REDUCING THE GUY RADIUS FROM 80% TO 40% OF THE TOWER HEIGHT.

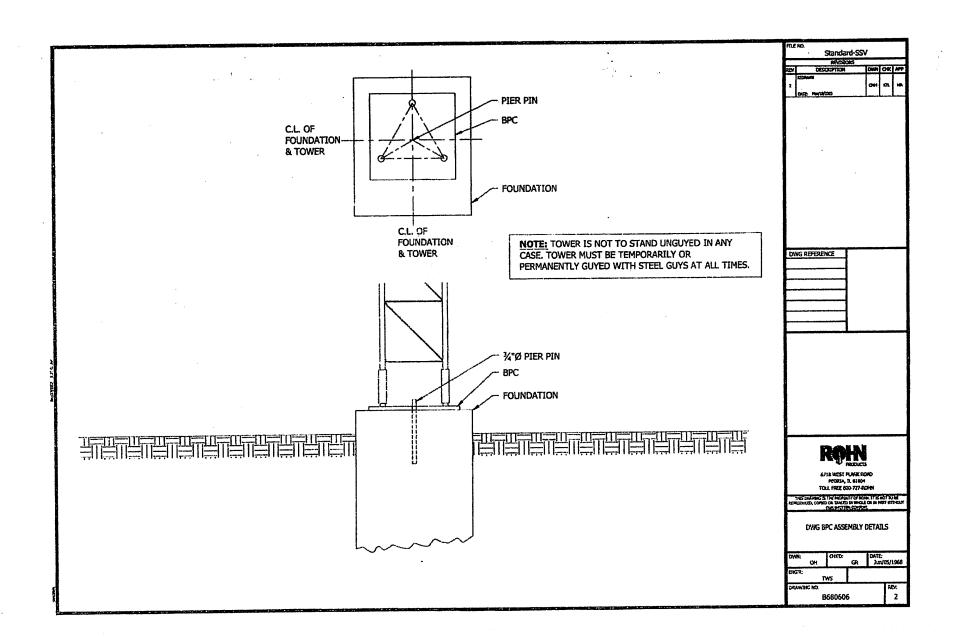
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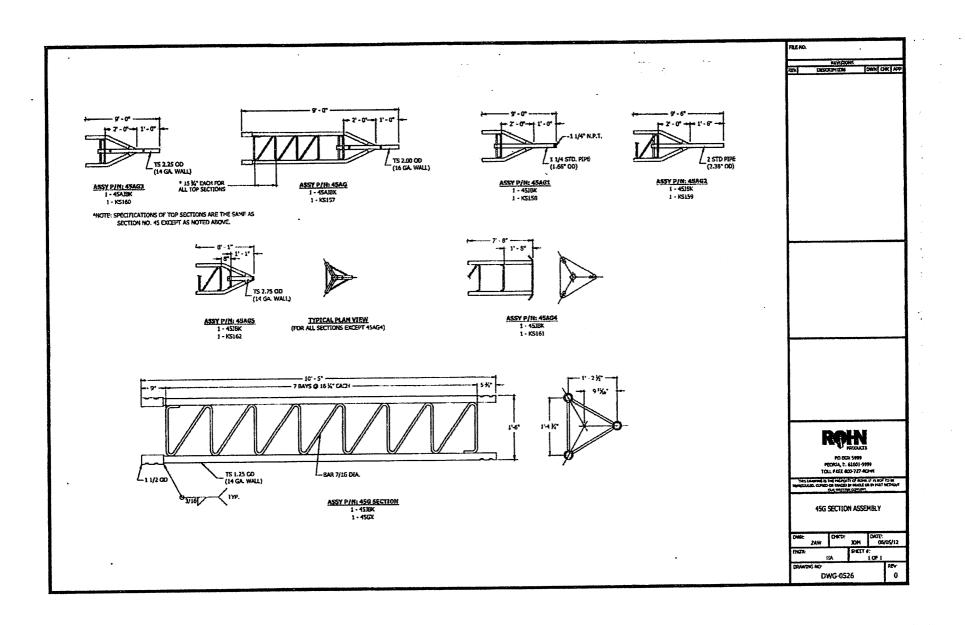
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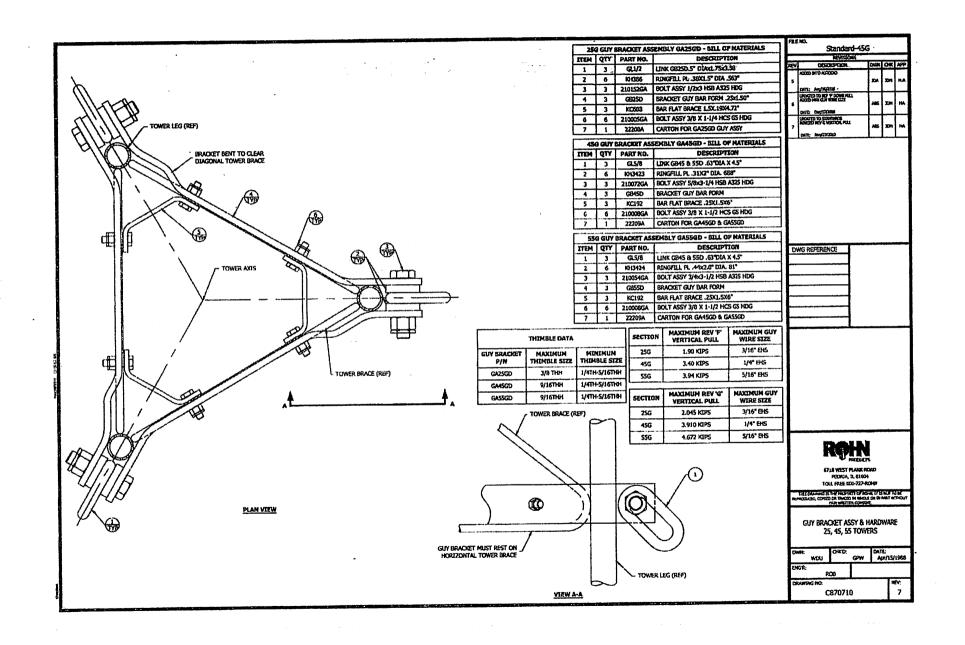
ASSEMBLY BOLT INSTALLATION 1. UNLESS OTHERWISE SPECIFIED, ASSEMBLY BOLTS AND ANCHOR BOLTS ARE TO BE TIGHTENED TO A SNUG TIGHT CONDITION (MEMBERS IN FIRM · CONTACT) AND MUST INCLUDE A NUT LOCKING DEVICE. NO MINIMUM BOLT TENSION OR TORQUE VALUES ARE REQUIRED. WHEN LOCK WASHERS ARE PROVIDED AS A NUT LOCKING DEVICE, REPLACE ANY DAMAGED WASHERS DUE TO OVER TIGHTENING. 2. WASHERS ARE TO BE INSTALLED OVER SLOTTED HOLES. PAL NUT INSTALLATION PAL NUTS ARE TO BE INSTALLED AFTER NUTS ARE TIGHT AND WITH EDGE LIP OUT (SEE PICTURE). PAL NUTS ARE NOT REQUIRED WHEN SELF-LOCKING NUTS OR LOCK WASHERS ARE PROVIDED. BOLT ASSEMBLY INSTALLATION A790135

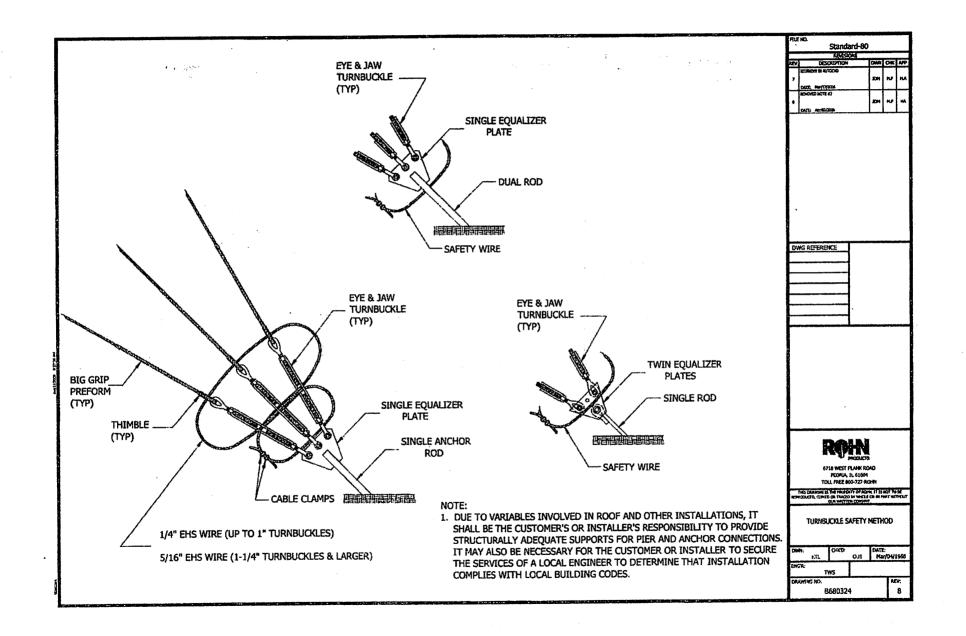
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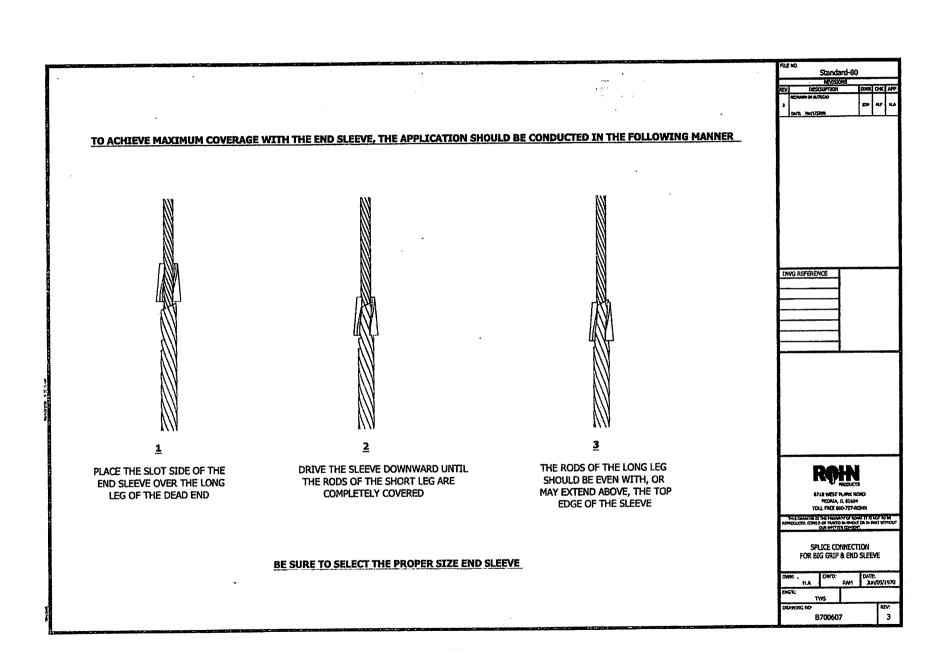


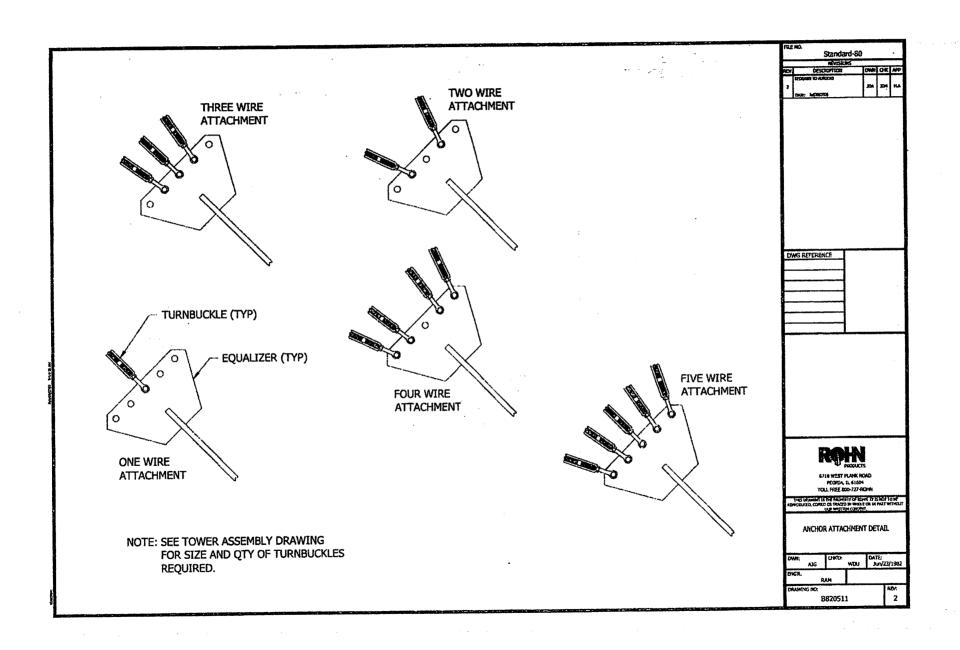


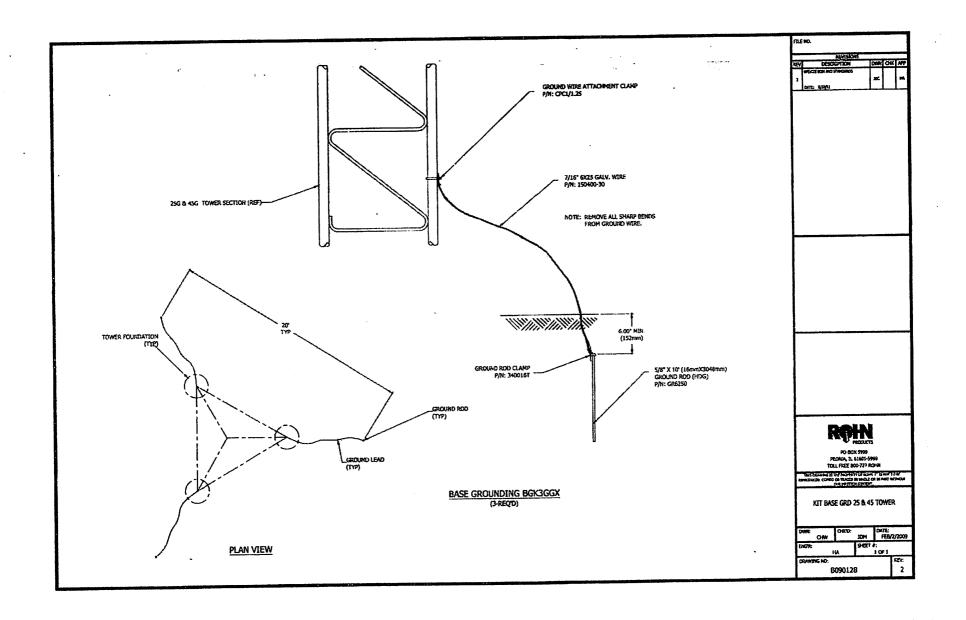
WIRE SIZE	ANCHOR ROD	TURNBUCKLE	THIMBLE
	GAR30	5/8TBE&J	5/16THH
3/16 EHS	GAC303,305	3/8TBE&E	5/16THH
3/10 2/10	GAC3455	1/2TBE&J	5/16THH
	GAC5655	5/8TBE&J	5/16THH
	GAR30	5/8TBE&J	3/8THH
1/4 EHS	GAC303,305	1/2TBE&E	3/8THH
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	GAC5655	5/8TBE&J	3/8THH
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5/16 EHS	GAC3455	5/8TBE&J	7/16THH
	GAC5655	5/8TBE&J	7/16THH
	GAR30	5/8TBE&J	1/2THH
3/8 EHS	GAC3455	5/8TBE&J	1/2THH
	GAC5655	5/8TBE&J	1/2THH

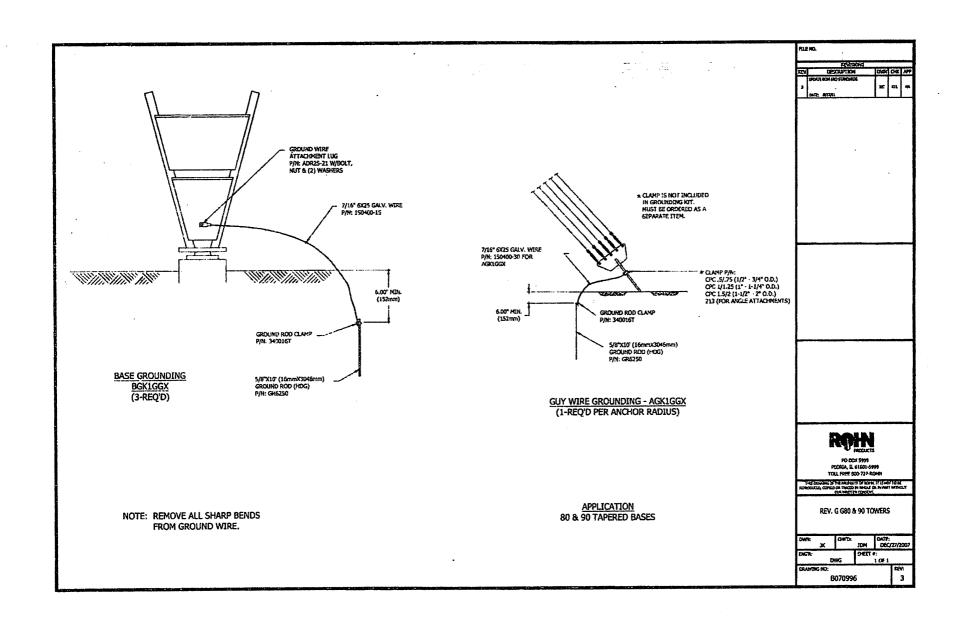
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Special Use Permit Application - Form 0300

Department of Planning and Community Development P.O. Box 217, Independence, VA 24348 Voice 276-773-200 Fax-276-773-3673

COMPLETE ALL INFORMATION INCOMPLETE APPLICATIONS CAN NOT BE ACCEPTED

The Planning Commission will study the Special Use Permit or Comprehensive Plan (15.2-2232) review requests to determine the need and justification for the change in terms of public health, safety, and general welfare. Please answer the following as thoroughly as possible. Use additional space if necessary.

It is the Applicant's responsibility to ensure that the project is feasible. A consultation with the Planning Director is encouraged to ensure the application is complete.

1. The Applicant is	the: ⊠Owner □ Agent for Owner			
Applicant: Last Name, First	Giga Beam Networks			
Mailing Address:	PO BOX 135 Rich Creek, VA 24147			
Phone Number:	540-726-2317			
Email Address:	accounting @ gigaboam. net			
Property Owner: (# Different from Above)	Fant, Palmer W and Sidney S			
Mailing Address:	6957 Peach Bottom Rd, Independence, VA			
Phone Number:	276-768-9466			
Email Address:	13 fantio4 @amail, com			
Tax Map Number:	Parcel Size in Acreage:			
2. Describe how the subject property(ies) is currently being used. Farm / mountain land,				

the project, including the number of employees and hours of operation) Construct a 45 G 140! House for the purpose
of providing wireless internet coverage to
residents currently uncovered by the projected
fiber build. Construction will require to people
between 40-60 hours.
4. List and describe each <u>proposed</u> structure to be constructed or enlarged as part of this project. Each description must include the use of each structure, heights (ft. or stories), and sizes (sq. ft.) based on outside dimensions.
Construct one 140 foot tower which is a
The inch triangle with guyed wires extending
112 feet (see tower diagram attachment)
Tower will be powered by electricity from
* Park Place Dr. no longer a Viable option.
 List and describe the impact(s) of the request on the property itself, the adjoining properties, and the surrounding area, as well as the impacts on public services and facilities, including
noise, water/sewer, roads, schools, churches, business, parks/recreation and fire, and
Some thees will be cleared for the tower
build. There will be no environmental
impact. The tower will provide several
houses with internet service.
Is the project use consistent with the Comprehensive Plan? Specifically, reference comprehensive plan goals.
Nes, the Grayson County Comp Plan Specifically references the
support of broad band and wire less internet in Chapter 5- Econon
5-11 strategies state, Support efforts, where teasible to
encourage the development of advanced Communication infrastructure
broadband & wiveless internet. Expansions of fiber and wireless
encourage the development of advanced Communication infrastructure broadband & wiveless internet. Expansions of fiber and wireless internet will help impact small business development, especial
for small businesses that operate ourside of major corridors and
towns.

Describe the proposed project (uses to be changed, added, or expanded as part of

3.

7.	Will the project require a permit from other licensing agencies (e.g. Department of Environmental Quality, VA Department of Energy, VA Department of Social Service, Virginia Department of Motor Vehicles. Yes No If yes, please explain.		

8. SITE PLAN

The level of needed detail may vary depending on the nature, size, and complexity of the proposed project. The Planning Director may grant exemptions or require additional information depending on the nature of the project. The following items shall be addressed:

- Title of the Project
- Lot size in acres, showing right of ways, easements, road access, entrances
- Zoning District
- List of all adjoining properties with names of owners, tax map numbers, and those directly across any public right-of-way, including those in adjacent jurisdictions
- Utilities
- Parking areas
- Vegetative Buffers
- Natural water courses and 100-year flood plain limits, if applicable
- Fences
- Proposed and Existing structure locations
- Show linear distance from proposed and existing structures to property lines and roadways

An aerial site plan is preferred and is available at the Grayson County GIS at https://www.webgis.net/va/grayson/.

For Commercial and Industrial projects, a stamped (engineered) site plan is required to address the requirements above and other items deemed necessary by the Planning Director.

Examples of requests may be typography of the project area with contours intervals of two feet or less, approximate location and sizes of sanitary and storm sewers, water mains, culverts, and underground structures, existing or planned, in or near the project, traffic analysis or traffic impact study.

The Director may waive requirements for items determined unnecessary to review the project or proposal, based on the proposal application submission.

APPLICATION PROCESS

The Special Use Permit application will be reviewed by the Grayson County Planning Commission at their regular monthly meeting. If recommended for approval, the application will proceed to a review by the Grayson County Board of Supervisors. The application may take 2 - 3 months for approval. The State Code of Virginia, 1950 requires that a Public Hearing be held for both the Planning Commission and the Board of Supervisors to review a Special Use Permit. A Public Hearing notice will be issued in the paper announcing the Public Hearing and all adjoining landowners will be notified by certified mail. In order to process the request a complete application, required to rezone fee, and a current site plan or survey representing the property must be submitted to the Zoning Department at least 3 weeks prior to the Planning Commission meeting date.

Applicants are encouraged to research the potential of the site for the ability to meet all local, state and federal regulations prior to applying for a Special Use Permit. This should include a review of the project by Virginia Department of Transportation for the ability to meet commercial entrance requirements, Virginia Department of Health and/or provider of well and septic services, discussion with the Grayson County Building Official, review of Erosion and Sediment Control Plan where grading is involved and conversations with adjacent landowners about any affect on their property.

Any changes to the application once it is received must be submitted at least 7 days prior to the meeting of the Planning Commission. The Applicant or a representative must be present at the meeting at which the application for rezone is considered. If the decision of the Planning Commission or Board of Supervisors is to be appealed, the Applicant should submit an appeal of the decision per <u>State Code of Virginia</u>, 1950, as amended.

APPLICATION FEES

Must accompany the application and are as follows:

Special Use Permit Fee \$55.00 + certified letter fee

The application fee will be assessed based on (cost of certified letters) x (number of the properties) required to be sent to adjoining landowners as required by the <u>Code of Virginia</u> for Public Hearing notice requirements.

APPLICANT AND OWNER CERTIFICATION OF SIGNATURE

I certify that the information listed on this application is true and correct to the best of my belief and knowledge. By signing this application, I agree to permit duly authorized representative(s) of any regulatory or advisory agency to enter upon the subject property at reasonable times to inspect and photograph site conditions, both in reviewing a proposal to issue a permit(s) and after permit issuance to determine compliance with the permit

If the Applicant and Owner are different individuals, both must sign. If Applicant is the same, please sign as Owner.

prease sign as owner.	_ / /	
Applicant Signature 6.aa	Beam Network	Date:
Owner Signature		Date: 10-26-22
	Page 4 of 5	

STAFF NOTES:

OFFICE USE ONLY - Special Use Permit A	pplication - Form 0300 - Revised 05/07/12
Property ownership and zone review Application, and site plan submitted on 10.26 1011 Fee: WAIVED Paid on: Building Official Consulted: 11.04 2022 VDOT Consulted: NA Public Hearing notice for PC sent: 10.28 2022 PC Recommendation: Date:	Floodplain Review: N/A Public Hearing notice for BOS sent: 117/2022 BOS recommendation: Date: Disqualified use review: Conditions for approval: Zoning Administrator: Letter sent to applicant: Permit Number: 2022/0182





Grayson County Planning & Development Department Jada C Black PO Box 217 Independence, VA 24348

November 10, 2022

Dear Members of the Zoning Board:

GigaBeam Networks respectfully requests variance for the setback distance listed in county ordinances 3-14 and 3-15.8 regarding the distance from any adjacent property line or public street. If were required to adhere to this distance, due to the mountainous terrain, GigaBeam would relinquish the height needed for the tower to effectively service residents with internet service. We are also asking for variance regarding the fence requirement listed in county ordinance 3-15.9 as relation to the security fencing. These permits are for private property in secluded locations. Additionally with the rugged terrain, there would be no expectation of anyone around the towers.

GigaBeam will adhere to all other requirements including section 3-15.12 regarding the removal of abandoned antennas and towers, section 3-15.11 regarding the use of the towers by the county at no cost, and section 3a which states the towers will meet FAA regulations. The towers will initially be solar powered and will not have electrical lines to them.

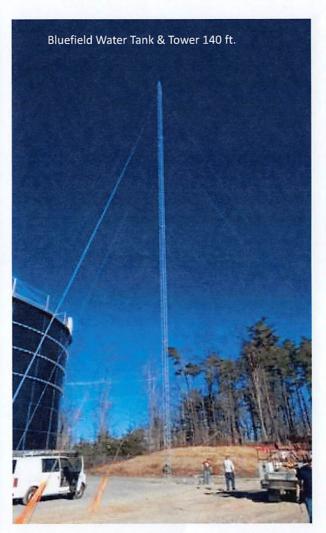
GigaBeam greatly appreciates the consideration given to this request as we continue our combined efforts to provide internet access to Grayson County residents. If you have further questions or I may be of any assistance, please do not hesitate to contact me either by email or by phone.

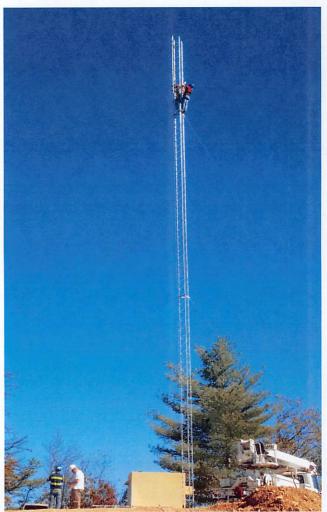
Sincerely,

Greg Hedrick
Director of Construction Projects & Field Services
GigaBeam Networks
gregh@gigabeam.net
540-726-2317 ext. 255

Photo Simulations







Authority: 47 U.S.C. 154, 301, 303, 309.

This content is from the eCFR and is authoritative but unofficial.

Title 47 - Telecommunication
Chapter I - Federal Communications Commission
Subchapter A - General
Part 17 - Construction, Marking, and Lighting of Antenna Structures
Subpart B - Federal Aviation Administration Notification Criteria

§ 17.7 Antenna structures requiring notification to the FAA.

A notification to the FAA is required, except as set forth in paragraph (e) of this section, for any of the following construction or alteration:

- (a) Any construction or alteration of more than 60.96 meters (200 feet) in height above ground level at its site.
- (b) Any construction or alteration that exceeds an imaginary surface extending outward and upward at any of the following slopes:
 - (1) 100 to 1 for a horizontal distance of 6.10 kilometers (20,000 feet) from the nearest point of the nearest runway of each airport described in paragraph (d) of this section with its longest runway more than 0.98 kilometers (3,200 feet) in actual length, excluding heliports.
 - (2) 50 to 1 for a horizontal distance of 3.05 kilometers (10,000 feet) from the nearest point of the nearest runway of each airport described in paragraph (d) of this section with its longest runway no more than 0.98 kilometers (3,200 feet) in actual length, excluding heliports.
 - (3) 25 to 1 for a horizontal distance of 1.52 kilometers (5,000 feet) from the nearest point of the nearest landing and takeoff area of each heliport described in paragraph (d) of this section.
- (c) When requested by the FAA, any construction or alteration that would be in an instrument approach area (defined in the FAA standards governing instrument approach procedures) and available information indicates it might exceed an obstruction standard of the FAA.
- (d) Any construction or alteration on any of the following airports and heliports:
 - (1) A public use airport listed in the Airport/Facility Directory, Alaska Supplement, or Pacific Chart Supplement of the U.S. Government Flight Information Publications;
 - (2) A military airport under construction, or an airport under construction that will be available for public use;
 - (3) An airport operated by a Federal agency or the United States Department of Defense.
 - (4) An airport or heliport with at least one FAA-approved instrument approach procedure.
- (e) A notification to the FAA is not required for any of the following construction or alteration:
 - (1) Any object that will be shielded by existing structures of a permanent and substantial nature or by natural terrain or topographic features of equal or greater height, and will be located in the congested area of a city, town, or settlement where the shielded structure will not adversely affect safety in air navigation;

#6

- (2) Any air navigation facility, airport visual approach or landing aid, aircraft arresting device, or meteorological device meeting FAA-approved siting criteria or an appropriate military service siting criteria on military airports, the location and height of which are fixed by its functional purpose;
- (3) Any antenna structure of 6.10 meters (20 feet) or less in height, except one that would increase the height of another antenna structure.

Note to § 17.7: Consideration to aeronautical facilities not in existence at the time of the filing of the application for radio facilities will be given only when proposed airport construction or improvement plans are on file with the Federal Aviation Administration as of the filing date of the application for such radio facilities.

[39 FR 7581, Feb. 27, 1974, as amended at 39 FR 26157, July 17, 1974; 42 FR 54823, Oct. 11, 1977; 42 FR 57127, Nov. 1, 1977; 79 FR 56986, Sept. 24, 2014]

jblack@graysoncountyva.gov

From:

cdavis@graysoncountyva.gov

Sent:

Friday, November 4, 2022 2:05 PM

To:

jblack@graysoncountyva.gov

Subject:

towers

Jada,

This is the code language for the towers.

SECTION 3108

TELECOMMUNICATION AND BROADCAST TOWERS

[BS] 3108.1General.

Towers shall be designed and constructed in accordance with the provisions of *TIA-222*. Towers shall be designed for seismic loads; exceptions related to seismic design listed in Section 2.7.3 of *TIA-222* shall not apply. In Section 2.6.6.2 of *TIA 222*, the horizontal extent of Topographic Category 2, escarpments, shall be 16 times the height of the escarpment.

Exception: Single free-standing poles used to support antennas not greater than 75 feet (22 860 mm), measured from the top of the pole to grade, shall not be required to be noncombustible.

[BS] 3108.2Location and access.

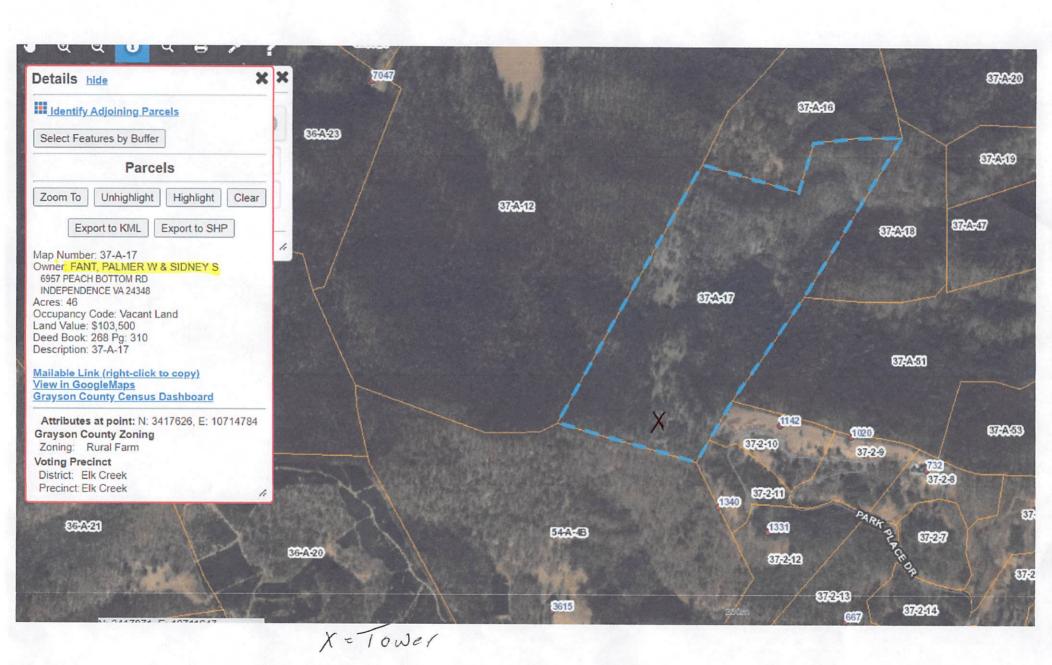
Towers shall be located such that guy wires and other accessories shall not cross or encroach on any street or other public space, or over above-ground electric utility lines, or encroach on any privately owned property without the written consent of the owner of the encroached-upon property, space or above-ground electric utility lines. Towers shall be equipped with climbing and working facilities in compliance with *TIA-222*. Access to the tower sites shall be limited as required by applicable OSHA, FCC and EPA regulations.

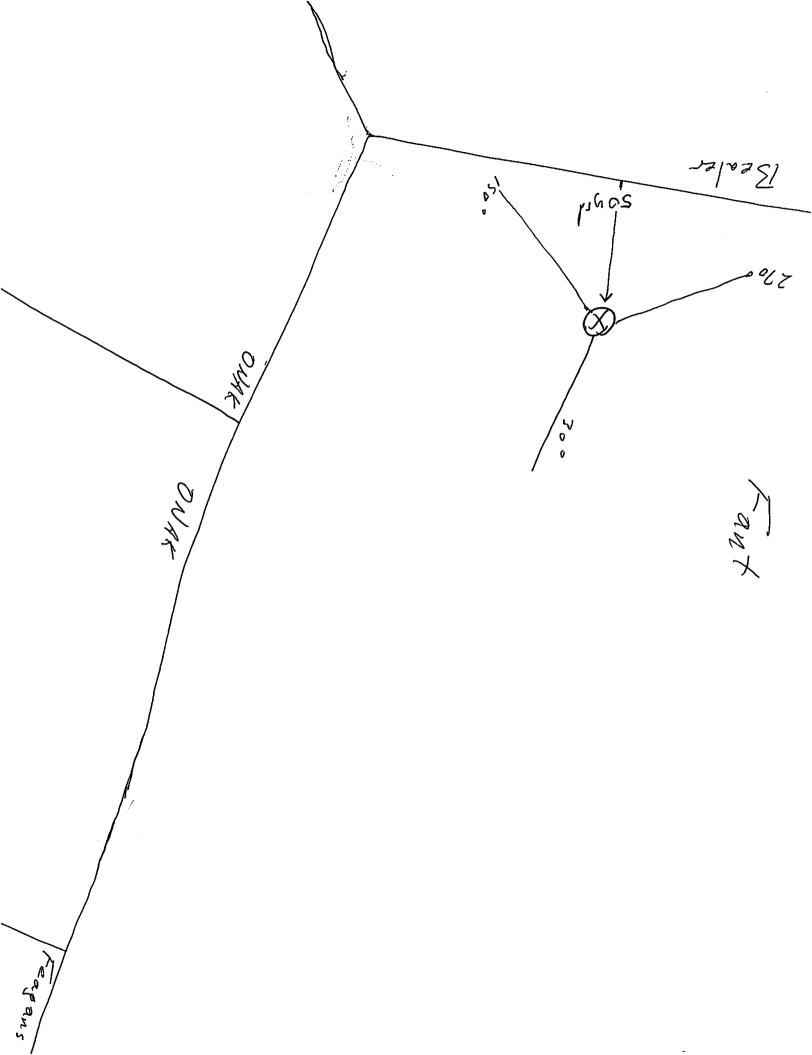
Thank you,

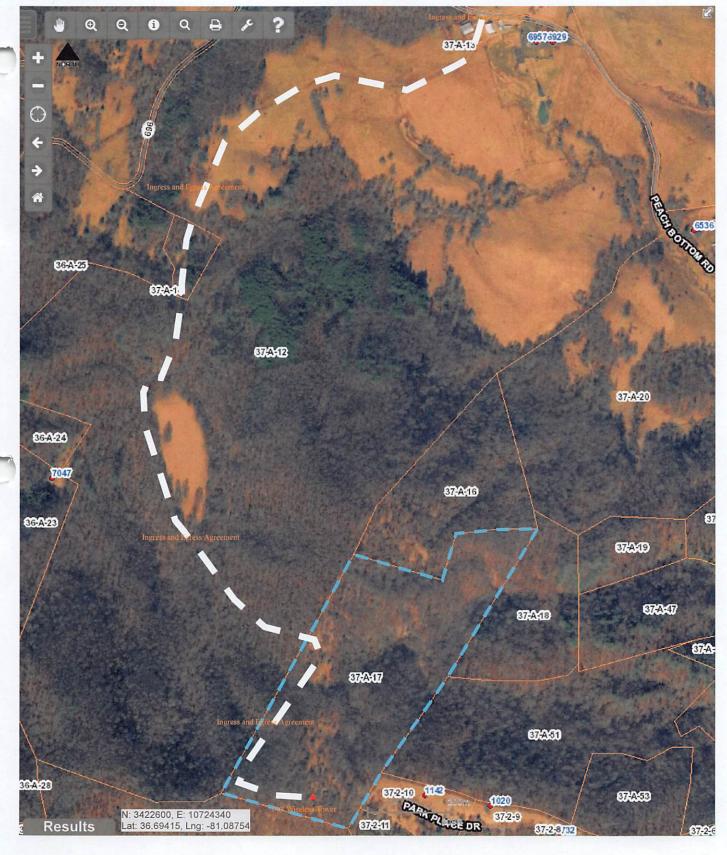
Chris Davis

Grayson County Building Official Grayson County Building Department P.O. Box 217 Independence, VA 24348 Phone: 276-773-2322 cdavis@graysoncountyva.gov











GRAYSON COUNTY, VIRGINIA MEMORANDUM

DATE: November 2, 2022 (Joint Public Hearing 11/17)

TO: Grayson County Board of Supervisors and Planning Commission

FROM: Jada C. Black, Director of Planning and Zoning

SUBJECT: Application Special Use Permit, Giga Beam Networks_ McLean Site

REQUEST

Application No. 20220183 is a request for a Special Use Permit pursuant to Article 4 Section 4-6.2.i of the Grayson County Zoning Ordinance to authorize the construction and operation of a communications tower for wireless internet in an unserved area of Grayson County located on one parcel containing approximately 57.995 acres of land located off of Woodbridge Lane and further identified as Tax Map No. 54-A-6. The proposed communication tower will be located on Tax Map number 54-A-6. The property is zoned Rural Farm (RF) and is not designated in the Enterprise Zone or Opportunity Zone, and no Historical Structures were identified within the proximity of the subject parcel.

DESCRIPTION

- Property Owner: Ricard McLean
- Location: Woodbridge Lane, Independence
- Area: Approximately 57.995 acres +/-
- <u>Frontage:</u> Woodbridge Lane, Independence
 Right-of-way lease agreement through tax parcel 53-A-89 and
 54-A-8 owned by Edgar J. Hensdell, Jr. Agreement signed
 11/8/2022.
- <u>Utilities:</u> Solar panels will be installed to energize the tower. Permission and access granted to add electrical service to the site.
- <u>Topography:</u> Relatively rolling and slopping approximately 2,967 feet in elevation.
- Zoning Classification: Rural Farm

- Existing Development: Mostly forested, with two residential dwellings on the property
- Surrounding Development:
 - o North: Primarily agricultural operations and several single-family dwellings across Peach Bottom Road
 - East: Subject parcel adjoins vacant parcels, single-family dwelling along Forest Ridge Road.
 - o South: Primarily agricultural and forestry
 - West: Primarily forestry and agricultural that adjoins Greenhouse
 Road
- <u>Proposed Development:</u> 140' 45G Communications Tower for wireless internet in unserved areas in Elk Creek District

LOCATION, SITE PLAN, AND ROAD ACCESS

- 1. The subject parcel is 57.995 acres and is located in the Elk Creek District, bound by primarily vacant forested and agricultural farmland. The nearest direct route from Peach Bottom Road to Woodbridge Lane.
- 2. The property is designated Rural Farm. Research indicates the area has no historical references through the Virginia Historical Society and is not designated within the Enterprise Zone.
- 3. Adjacent properties surrounding the subject parcels are all designated as Rural Farm.
- 4. Engineered plan for the proposed tower and other reference material include the following details: **Reference No. 1**
 - Construction Details
 - Building Official Coorespondence
 - Miro Site Lease Agreement with a term of 10 years options to renew for a period of 10 years, but can can be cancelled after initial term with written 90-day notice.
 - Color- Hot-Dipped Galvanized Steel Construction
 - Excavation Area is minimal pier footings as required for tower construction. Minimal tree removal will be required for tower location.

- Tower Specs- 45G self-supporting ladder tower, overall height 140' communications tower
 Vegetation on site will screen any local impact view. Tower constructed will be less than the requirements to meet FAA approval. Construction will meet FCC, Building Code Requirements, and other applicable Federal and State standards.
- Nearest residents property line is approximately feet from the communications tower
- Setbacks to residential structure 1560 ft.
- Fencing- Giga Beam has requested a variance for the fencing, a formal letter of request can be located in the reference pages attached.

OTHER APPLICABLE REQUIREMENTS

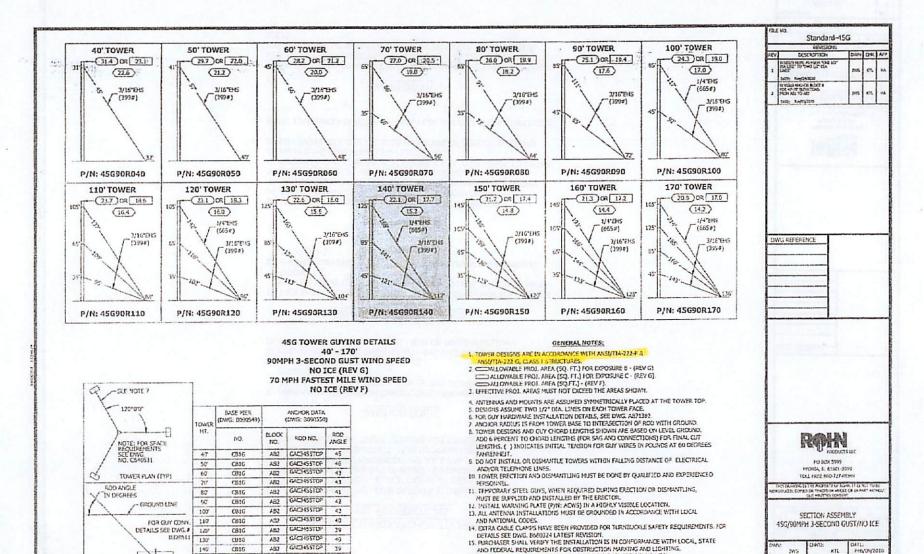
- Giga Beam Networks SUP Application Reference No. 2
- Co-location policy the proposed tower will allow co-location of government access for emergency services free of charge.
 Reference No. 3

VARIANCE REQUEST Fencing and Setbacks Reference No. 4

- Comprehensive Plan consistency Section 8-1 Support and encourage the development of advanced communication infrastructure, broadband, wireless internet, and <u>cell</u> coverage/towers (5-11)
- Photo simulation pictures provided Reference No. 5
- No hazard to air traffic determination Reference No. 6
 - FAA requirements for lighting do not apply per §17.7 Antenna structure requiring notification to the FAA.

RECOMMENDATION

For the purpose of public necessity, convenience, general welfare, public safety, and health or good zoning practice. Staff recommends to the Planning Commission approval for a Special Use Permit for a Communications Tower on parcel tax map number 54-A-6 in the Rural Farm Zone, Elk Creek District. The site will be developed as specified in the submitted plans and application and in accordance with Article 3-15 of the Zoning Ordinance and the Unifrom Statewide Building Code.



16. TOLERANCE ON TOWER STEEL IS EQUAL TO PLUS 1% AND MINUS 1/2%.

17. DESIGNS ASSUME THAT, AS A MINIHUM, MAINTENANCE AND INSPECTION WILL BE

IS ANCHOR RODS CORROSION PROTECTION METHODS TO BE PROVIDED BY OTHERS.

PERFORMED OVER THE LIFE OF THE STRUCTURE IN ACCORDANCE WITH ANSI/TIA/EIA-232-G

HA

DWG-0105-1

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AB2 GAC34551DP

ABZ GACHSSTOP

A52 GAC3155100

150"

150

170

CHIG

CBIG

CHIC

38

37

FOUNDATION AND ANCHOR TOLERANCES ALL FOUNDATIONS

- 1. CONCRETE DIMENSIONS PLUS OR MINUS 1" (25mm).
- 2. DEPTH OF FOUNDATION PLUS 3" (76mm) OR MINUS 0".
- 3. DRILLED FOUNDATIONS OUT OF PLUME 1.0 DEGREE.
- 4. REINFORCING STEEL PLACEMENT PER A.C.I. 301.
- 5. PROJECTION OF EMBEDMENTS PLUS OR MINUS 1/8" (3mm).
- 6. VERTICAL EMBEDMENTS OUT OF PLUMB 0.5 DEGREE.

ANCHOR BOLTS

- MAXIMUM DISTANCE FROM CENTERLINE OF ANCHOR BOLTS TO CENTERLINE OF FOUNDATION - 1/24 OF PIER DIAMETER UP TO A MAXIMUM OF 2" (51mm).
- 8. ANCHOR BOLT SPACING 1/16" (2mm).
- 9. ANCHOR BOLT CIRCLE CRIENTATION 0.25 DEGREE.
- 10. ANCHOR BOLT CIRCLE DIAMETER PLUS OR MINUS 1/16" (Zmm).

SELF-SUPPORTING TOWERS

- 11. FACE SPREAD DIMENSION CENTER TO CENTER OF ANCHOR BOLT CIRCLES -PLUS OR MINUS 1/16" (Zmm) OR 1/16" (Zmm) PER 20 FT. (6m) OF FACE SPREAD
- 12. MAXIMUM DIFFERENCE BETWEEN ANY TWO FOUNDATION ELEVATIONS 1/2" (13mm).

GUYED TOWERS

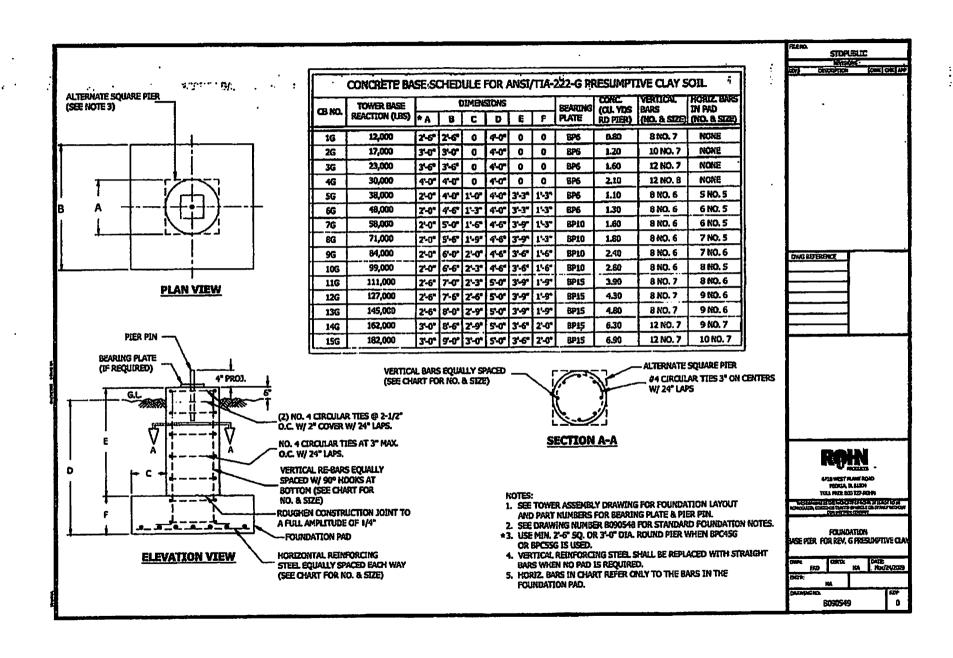
- 13. GUY RADIUS PLUS OR MINUS 5% OF DISTANCE SPECIFIED.
- 14. ANCHOR ELEVATION PLUS OR MINUS 5% OF GUY RADIUS.
- 15. ANCHOR ALIGNMENT (PERPENDICULAR TO GUY RADIUS) 1.0 DEGREE.
- 16. ANCHOR ROD SLOPE PLUS OR MINUS 1.0 DEGREE.
- 17. ANCHOR ROD ALIGNMENT WITH GUY RADIUS PLUS OR MINUS 1.0 DEGREE.
- 18. ANCHOR HEAD OUT OF FLUMB 1.0 DEGREE.
- 19. GUY INITIAL TENSION PLUS OR MINUS 10% OF TENSION SPECIFIED.

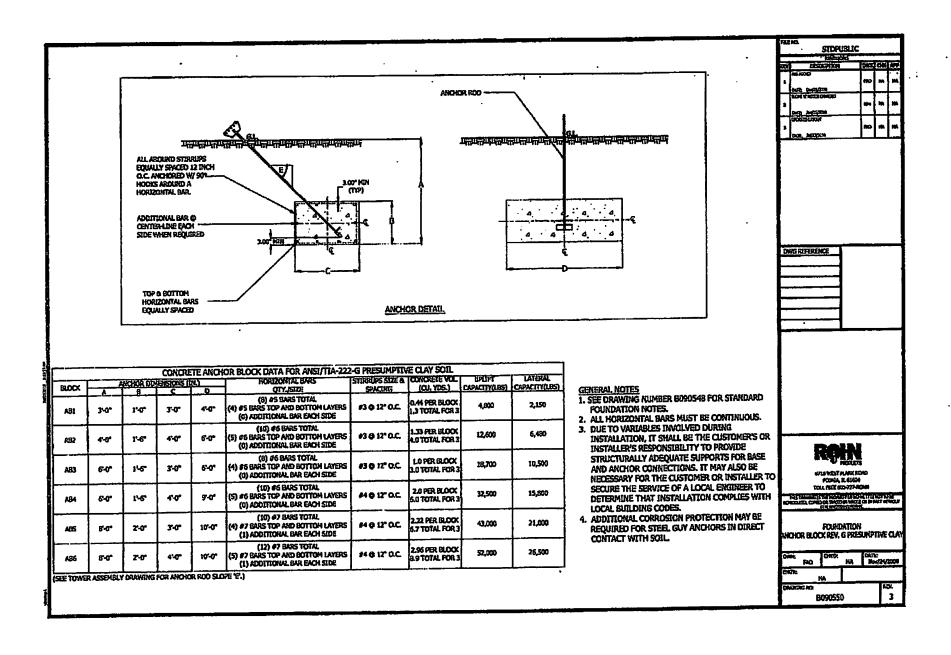
NOTE: TOLERANCES IN NOTES 13 AND 14 CAN NOT OCCUR SIMULTANEOUSLY

WARNING!!!

AFTER ANCHOR BOLTS ARE INSTALLED IN CONCRETE HAS TAKEN ITS INITIAL SET, ANCHOR BOLTS MUST NOT BE MOVED, BENT OR REALIGNED IN ANY MANNER. A NUT LOCKING DEVICE MUST BE INSTALLED ON ALL ANCHOR BOLTS.

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STANDARD FOUNDATION NOTES ANSI/TIA-222-G

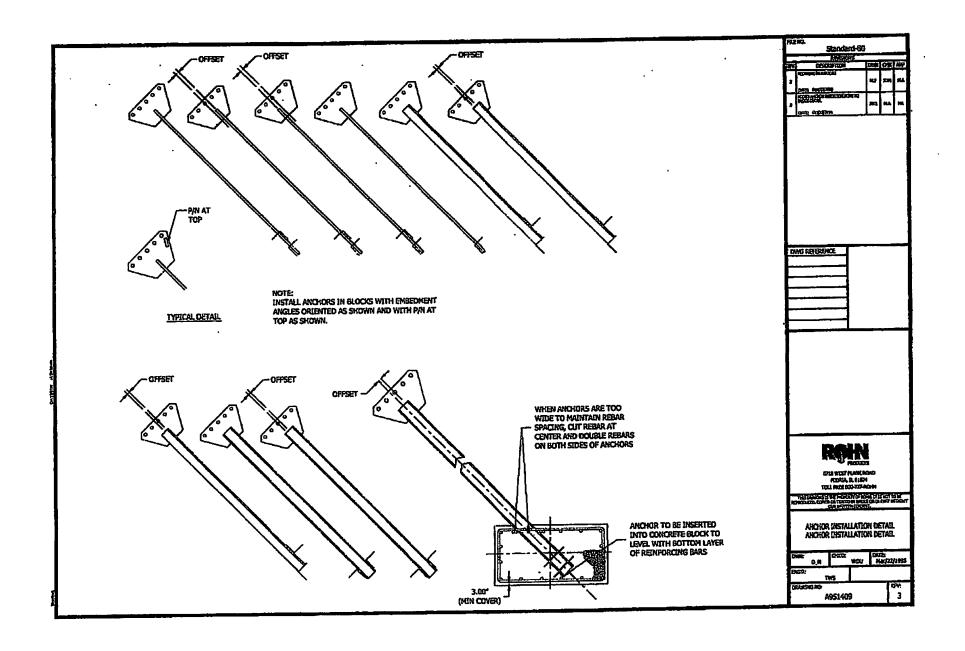
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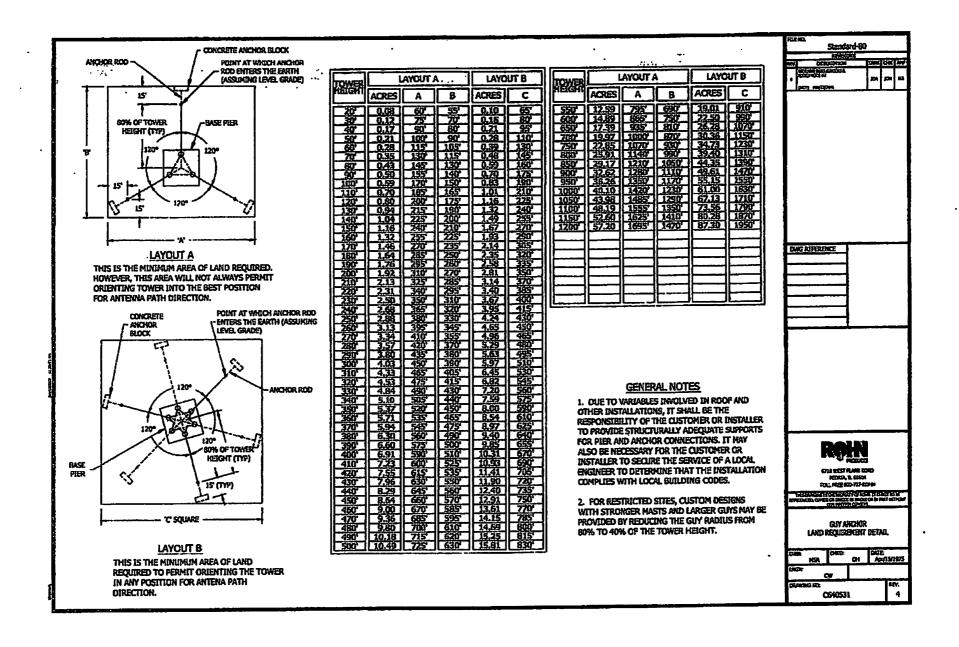
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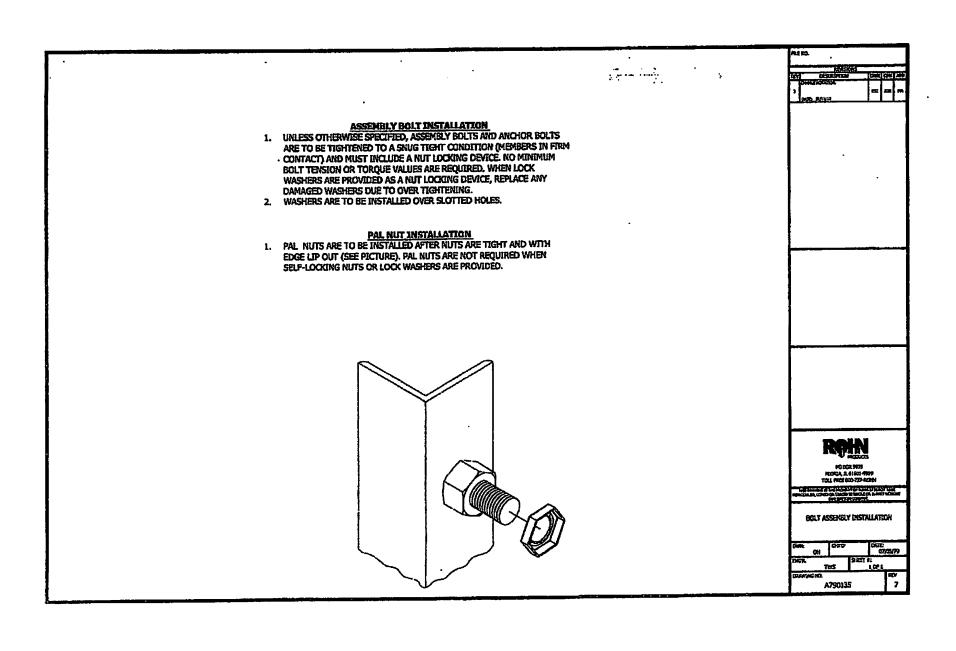
- THE PURCHASER PUST VEHION THAT ACTUAL SITE SOIL PARAMETERS WEET OR EXCEED
 ANSIATHA-222-G PURELIFYTHY CLAY EQU. DESIGN PRAMETERS AND THAT THE PERGITATION
 ANGURE SOME ON EXASONAL MOISTIRE VARIATION AT THE SITE POMPATION DESIGN
 ROCEPICATIONS MAY BY REQUIRED BY THE EVENT PRESIDENTING CLAY SOIL PARAMETERS ARE NOT
 APPLICABLE FOR THE ACTUAL SUBSTRACT CONDITIONS EMODERISED.
- A SITE-OPICIFIC UNHSTRUATION IS REQUIRED FOR CLASS III STRUCTURES IN ACCORDANCE WITH INSUITABLES.
- 4. FOUNDATION DESIGNS ASSURE FIRED INSPECTIONS WILL BE REPORTED BY THE PURCHASHIS REPRESENTATIVE TO VERBY! THAT CONSTRUCTION HATERLAS, DISTALLATION NETHODS AND ASSURED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON THE CONDITIONS EXISTING AT THE SITE.
- S WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS AND URLESS OTHERWISE NOTED, THE LATEST REVISION OF ACT 318, "BUILDING CODE REQUIREMENTS FOR REPRYCROED COMPARTS," PRODUCELES FOR THE PROTECTION OF EXCAYATIONS, EXSTEND CONSTRUCTION AND UTILITIES SHALL BE ESTRELENED FROM TO FOLKMATION INSTALLATION.
- CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUEREMENTS FOR EXPOSED STRUCTURAL CONFORME.
- PROPORTIONS OF CONDUCTE MATERIALS SHALL SE SUITABLE FOR THE DISTRILLATION METHOD
 UTILIZED AND SHALL RESILT IN DIGNALE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED
 AGGRESSIVE ACTIONS. THE DISPOSITIVE REQUIREMENT OF ACT 318 CHAPTER 4 SHALL OF SATISFIED
 BASED CHI THEY CONCINTONS EXPECTED AT THE SITE. AS A MANDALM, CONCRETE SHALL GEVELOP A
 HIGHMAN CONCRETSMY STRENGTHOW 400 PSI (27.6 FPG) Dr 28 OATS.
- 6. MACHICH SIZE OF ACCREGATE SHALL NOT EXCEED SIZE SIZEABLE FOR DISTALLATION METHOD UTILIZED OR US CLEAR DISTANCE BOOKD OR BETWEEN REDFORCING. MACHING SIZE MAY BE DUCKEASED TO 2/3 CLEAR DISTANCE PROVIDED WORKARSLITY AND METHODS OF CONSOLIDATION SUCH AS VISRATING WILL PREMENT HORSTCOMES OR VOIDS.
- REDIFFORTHERM SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTIMALS
 GRADE IN TRACES OTHERWISE MOTED, SPLICES IN REDIFFORCEMENT SHALL NOT BE ALLOWED
 LINESS OTHERWISE DISTRATED.
- 10. REINFORCING CAGES SHALL BE DRACED TO RETAIN PROPER CONCINCIONS DURING MANDALING, THROUGHOUT PLACEMENT OF CONCRETE AND DURING EXTRACTION OF TEMPORARY ONSDIG.
- II. WELDING IS PROMOTTED ON REINFORCING STEEL AND EXCEPTIONS.

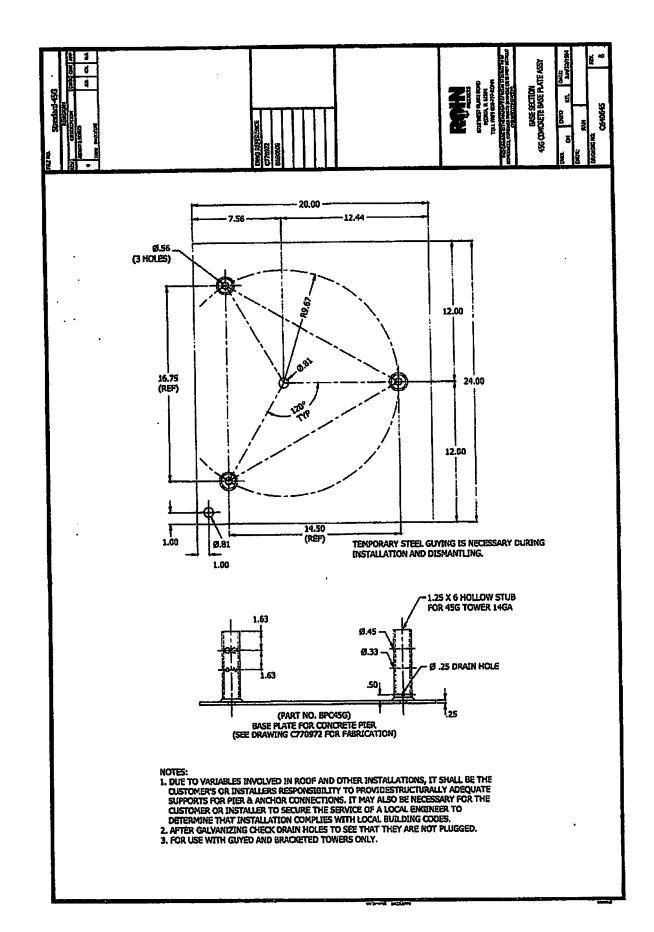
- 12. NEIGNEM COMPRETE COVER FOR REINFORCHENT SAMLE SE 3 DIOTES (16 mm) UNLESS
 OTHERWISE NOTED. APPROVED SPACERS SHALL SE USED TO DRIVER A 3 SIGH (16 mm) UNLESS
 COVER ON REINFORCHENTY, CONCRETE COVER FROM TOP OF POLICIATION TO BIOS OF
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 (51 mm).
- SPACES SHOUL BY ATTACHED DITENDITIENTLY THROUGHOUT THE ENTER LENGTH OF VEHTICAL REPROPERTY CASES TO DISCUSS CONCENTRIC PLACEMENT OF CASES IN EXCAVATIONS.
- 14. FOUNDATION DESIGNS ASSURE STRUCTURAL MADRILL TO SECONOMICTED IN 8 INCH (200 mm) NAZIRUM LAYERS TO 93% OF KANDARIN DRY ORIESTY AT OPTIMUM MIDISTERS CONTENT IN ACCORDANCE WITH ASTA DAYD, ADDITIONALLY, STRUCTURAL BADGILL MUST HAVE A NORMAN CONVACTED URIT WEIGHT OF 100 POLISIS PER CUSIC FOOT (LE 104mJ).
- 15. FOUNDATION DESIGNS ASSUME LEVEL GRADE AT THE SITE.
- IC. POURDATION DISTALLATION SHALL GE SUPERVISED BY PERSONGL INDIALDISECUL AND
 ESPECIENCED WITH THE PROPOSED POURDATION TYPE. CONSTRUCTION SHALL BE IN
 ACCORDANCE WITH GENERALLY ACCOPTED DISTALLATION PRACTICES.
- 17. FOR FOLHOATION AND ANCHOR TOLERANCES SEE DRAWING ASSOCIA.
- 13. LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF DECAYATION PRIDE TO CONCRETE PLACEMENT, SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTOMS.
- 19. OZKOPETE SKALL PE PLACED DI A MANNER THAY WALL PREVENT SEGREGATION OF CONCRETE MATERIALS, DIFOLITATION OF WATER OR SOIL AND CITIES COCURDENCES WARCH MAY OCCUPASS THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- 10. PROS PAUL CONCRETE PAUY BRUSED PROVIDED PAUL IS VERTICAL COMPLICATION HITTING SIDES OF EXCHANTION, PROVINCEN, REDIFFORCING GAIRS, FORM TIES, CAGE GRACING OR OTHER OBSTRUCTIONS, UNDER NO CIRCUMSTANCES SPAUL CONCRETE PAUL THROUGH WATER.
- 21. CONCRETE SHALL 66 PLACED AGAINST UNDSTRUBBED BOIL EXCEPT FOR PRINS OR PLOT AND PAD FOUNDATIONS. FORPERS FOR PERS SHALL BE REMOVED FROM TO PLACING STRUCTURAL BADGFILL.
- CONSTRUCTION JOHN'S, OF REQUERED BY PIER MIST BE AT LEAST 12 DIGNES (105 mm) BELOW BOTTOM OF EXSEDNENTS AND MIST BE INTERMICIALLY ROUGHERED IN A RALL AMPLITUDE OF 1/4 PRON (6 mm), FOLKHSATTON DESIGN ASSUMES NO OTHER CONSTRUCTION JOIN'S.
- 23. CHEING, IF USED, SIVILL NOT BE LEFT DI PLACE. EQUIPMENT, PROCEDURES, AND PROPORTIONS
 OF CONDRETE MATERIALS SHALL DESURE CONCRITE WILL NOT BE AMPRISALY DISTURBED LYON
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 SHALL NOT BE DETERMENTAL TO CONCRETE OR SURFOUNDING SOL. CONTAMINATED CONCRETE
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- 24 TOP OF FOLKMATION SHALL SE SLOPED TO DRADE WITH A REALTED FROMED. DEFOSED EDGES OF CONDECTE SHALL BE CHARGESED 24" X 34" (19 mm x 19 mm) NOSHAM.
- 25. FOR ANCHOR GLOCK TYPE FOURDATIONS, FOR GLYED TOWERS, ADOITIONAL CORRESSION PROTECTION HAVE BE REQUIRED FOR STEEL CUIT AND HORSE HE DIRECT CONTACT WITH SOIL. CHESTER ASSINESS PREMIORIC HISPOLITIONS WILL BE PREVIOUSD OVER THE LIFE OF THE STRUCTURE TO DETERMINE IF ADDITIONAL ANCHOR CORPORIOR PROTECTION MEASURES PRIST BE UNLEVENTED USSED ON DESERVED SITE-SPECIFIC CONDITIONS.

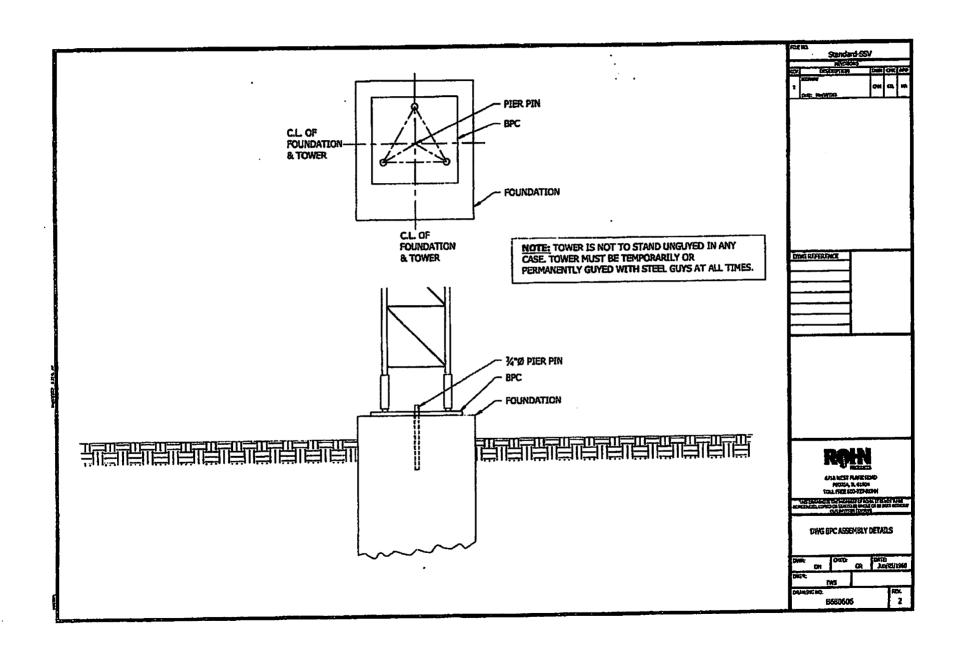
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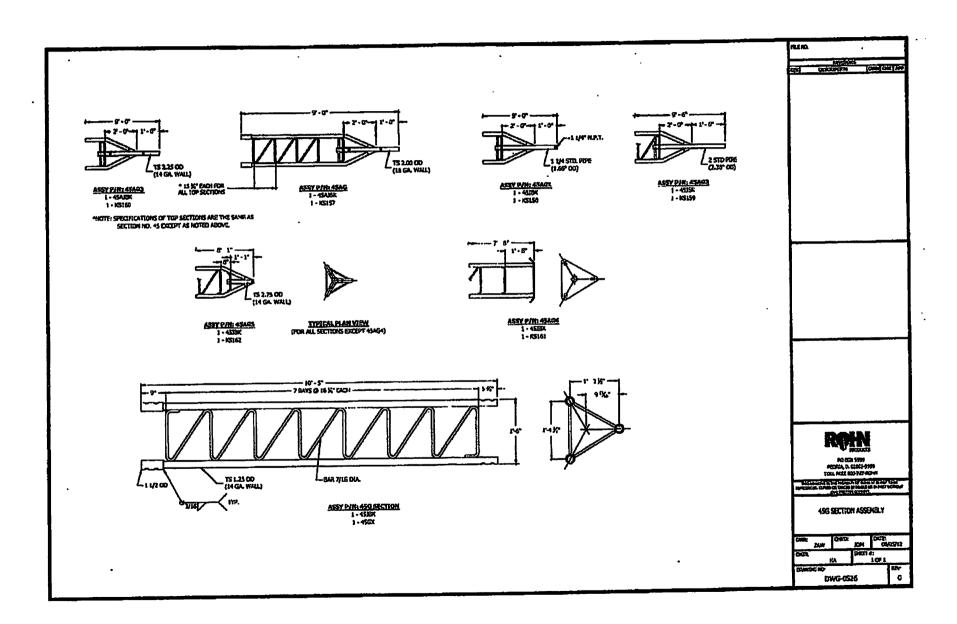


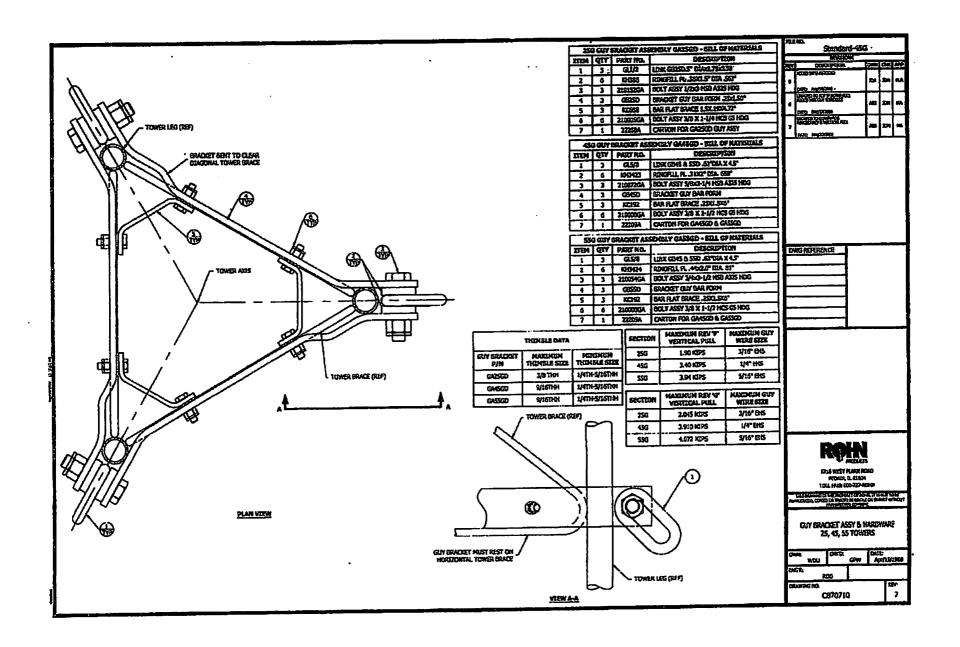


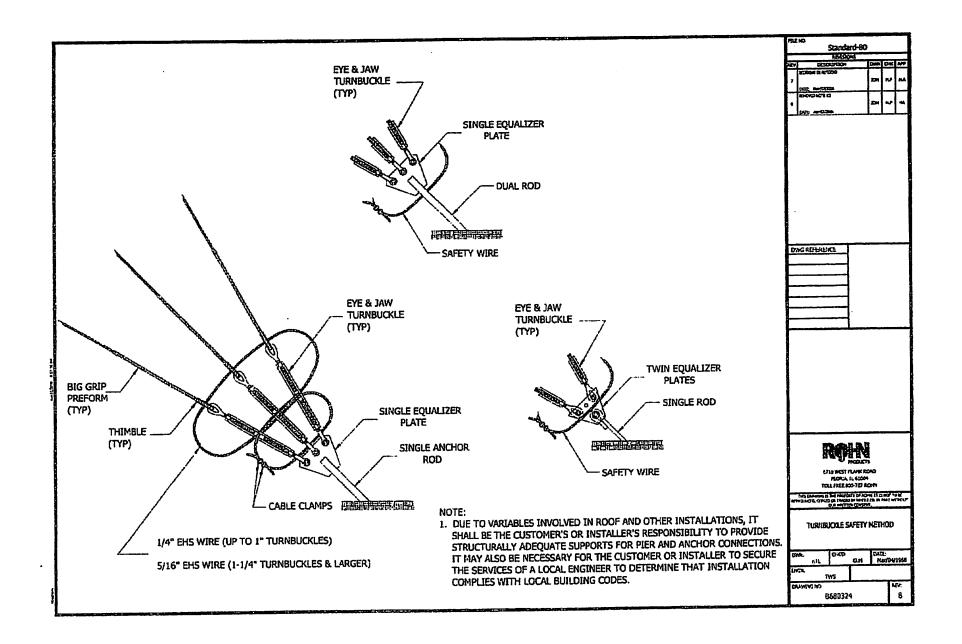










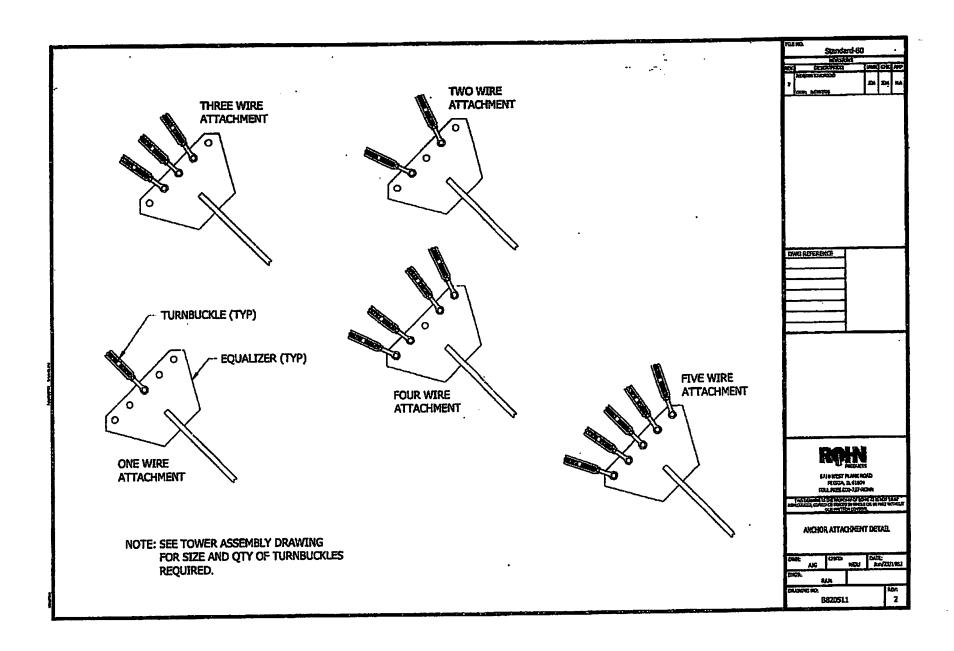


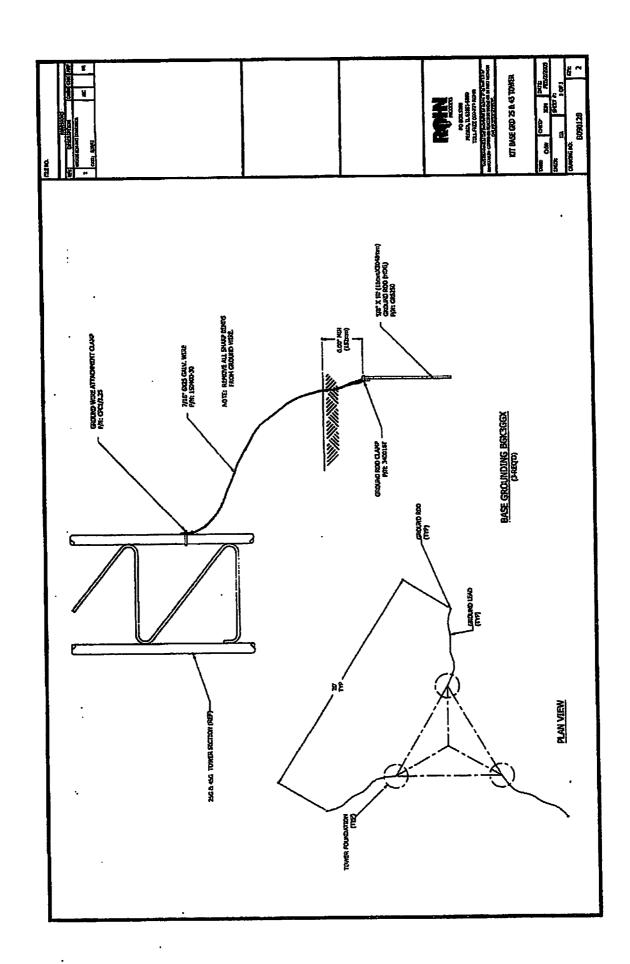
WIRE SIZE	ANCHOR ROD	TURNBUCKLE	THIMBLE
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3/16 EHS	GAC303,305	3/8TBE&E	5/16THH
3/10 2/10	GAC3455	1/2TBE&J	5/16THH
	GAC5655	5/8TBE&J	5/16THH
	GAR30	5/8TBE&J	3/8THH
1/4 EHS	GAC303,305	1/2TBE&E	3/8THH
1/4 603	GAC3455	1/2TBE&J	3/8THH
	GAC5655	5/8TBE&J	3/8THH
	GAR30	5/8TBE&J	7/16THH
	GAC303,305	5/8TBE&J	7/16THH
5/16 EHS	GAC3455	5/8TBE&J	7/16THH
	GAC5655	S/8TBE&J	7/16THH
	GAR30	5/8TBE&J	1/2THH
3/8 EHS	GAC3455	5/8TBE&J	1/2THH
	GAC5655	5/8TBE&J	1/2THH

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TO ACHIEVE MAXIMUM COVERAG	E WITH THE END SLEEVE, THE APPLICATION SHOUL	D BE CONDUCTED IN THE FOLLOWING MANNER .	•
	2	3	DNG REFERENCE
1 PLACE THE SLOT SIDE OF THE END SLEEVE OVER THE LONG LEG OF THE DEAD END	DRIVE THE SLEEVE DOWNWARD UNTIL THE RODS OF THE SHORT LEG ARE COMPLETELY COVERED	THE RODS OF THE LONG LEG SHOULD BE EVEN WITH, OR MAY EXTEND ABOVE, THE TOP EDGE OF THE SLEEVE	COLUMN CONTROL COLUMN CONTROL COLUMN CONTROL COLUMN CONTROL COLUMN CONTROL COLUMN COLU
•	BE SURE TO SELECT THE PROPER SIZE END SLE	<u>eve</u>	SPLICE CONSECTION FOR ELEG GREP & END SLEEVE DATE: HA DIRECT MAN DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION BROOKERS BRO

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REM. GROUND WIRE ATTACHENT LUG PIN: ADRES-21 WISOLT, NUT & (2) WASHERS A CLAUP IS NOT PROLEDFO BI GEOLUDING KIT. HUST BE CROCKED AS A SPARATE ITEM. 7/16" 6021 GALV. WIRE P/N: 150400-15 7/LS* 6/DS GALV. WISE PAI: 150400-30 FOR AGRIGOR #CLAYD P/A: OPC 15/25 (1/2* - 3/4* O.D.) OPC U125(2* - 1-1/4* O.D.) OPC U5/25 (1-1/2* - 2* O.D.) 213 (108 ANGLE ATTAGOREMIS) (152mp) (125:111) GROUND ROD CLAYP P/N: 3400167 GROUNU ROD CLAYP P/RL 340015T \$757410' (16mm)G046mm) GROUND ROD (HOG) P/N: GR6250 BASE GROUNDING
BGK1GGX
(3-REQ'D) S/BTX10" (15mm)(D045mm) GROUND ROD (HDG) P/PIC GR6250 GUY WIRE GROUNDING - AGKIGGX (1-REQ'D PER ANCHOR RADIUS) POCEST SESS POCEST, IL CERCLESSES TOLL POST ECO 7274 CORS APPLICATION 80 & 90 TAPERED BASES REV. G G80 & 90 TOWERS NOTE: REMOVE ALL SHARP BENDS FROM GROUND WIRE. DATE: DWG . 8070996



Special Use Permit Application - Form 0300

Department of Planning and Community Development P.O. Box 217, Independence, VA 24348 Voice 276-773-200 Fax-276-773-3673

COMPLETE ALL INFORMATION INCOMPLETE APPLICATIONS CAN NOT BE ACCEPTED

The Planning Commission will study the Special Use Permit or Comprehensive Plan (15.2-2232) review requests to determine the need and justification for the change in terms of public health, safety, and general welfare. Please answer the following as thoroughly as possible. Use additional space if necessary.

It is the Applicant's responsibility to ensure that the project is feasible. A consultation with the Planning Director is encouraged to ensure the application is complete.

1. The Applicant is	the: 💆 Owner	☐ Agent for Owner
Applicant: Last Name, First	Giga Bean	n Networks
Mailing Address:	PO BOX 1	n Networks 35 Rich Creek, VA 24147
Phone Number:	540 - 726 -	
Email Address:		@ gigabean. net
Property Owner: # Different from Above)	•	ر الله الله الله الله الله الله الله الل
Mailing Address:		dge Lane, Independence, V
Phone Number:	276-773-	• •
Email Address:	nla	
Tax Map Number:	54-A-6	Parcel Size in Acreage: 59.995
	e subject property(ies) i Moun tai	
FOU IV	MOUN I OCH	Lavo

3. Describe the <u>proposed</u> project (uses to be changed, added, or expanded as part of the project, including the number of employees and hours of operation) Construct a 45 G 140 Tower for the
purpose of providing wireless internet
coverage to residents currently uncovered
by the projected fiber build. Construction
will require to people between 40-60 hours.
general welfare. Leave amoves the region laws in the quality as preside, benefit themes sence if posterior
4. List and describe each <u>proposed</u> structure to be constructed or enlarged as part of this project. Each description must include the use of each structure, heights (ft. or stories), and sizes (sq. ft.) based on outside dimensions. Construct one 140 foot tower which is a light inch triangle with guyed wires extending 112 feet. (See tower digram attachment). Solar panels will be on the gown to provide power.
5. List and describe the impact(s) of the request on the property itself, the adjoining properties, and the surrounding area, as well as the impacts on public services and facilities, including noise, water/sewer, roads, schools, churches, business, parks/recreation and fire, and rescue. Some trees will be cleared for the tower built. There will be no environmental impact. The tower will provide several houses with internet Service.
 Is the project use consistent with the Comprehensive Plan? Specifically, reference comprehensive plan goals.
Yes, the Grayson County Comp Plan specifically references the support of broad band & wireless internet in Chpt. 5- Economy 5-11 Strategies reference, support efforts, where feasible to encourage the developm of advanced Communication intrastructure broadband & wireless internet will help infer end wireless internet will help impact small business development, especially for small businesse that operate outside of major corridors and towns.

7.	Will the project require a permit from other licensing agencies (e.g. Department of Environmental Quality, VA Department of Energy, VA Department of Social Service, Virginia Department of Motor Vehicles. □ Yes ☑ No If yes, please explain.

8. SITE PLAN

The level of needed detail may vary depending on the nature, size, and complexity of the proposed project. The Planning Director may grant exemptions or require additional information depending on the nature of the project. The following items shall be addressed:

- Title of the Project
- Lot size in acres, showing right of ways, easements, road access, entrances
- Zoning District
- List of all adjoining properties with names of owners, tax map numbers, and those directly across any public right-of-way, including those in adjacent jurisdictions
- Utilities
- Parking areas
- Vegetative Buffers
- Natural water courses and 100-year flood plain limits, if applicable
- Fences
- Proposed and Existing structure locations
- Show linear distance from proposed and existing structures to property lines and roadways

An aerial site plan is preferred and is available at the Grayson County GIS at https://www.webgis.net/va/grayson/.

For Commercial and Industrial projects, a stamped (engineered) site plan is required to address the requirements above and other items deemed necessary by the Planning Director.

Examples of requests may be typography of the project area with contours intervals of two feet or less, approximate location and sizes of sanitary and storm sewers, water mains, culverts, and underground structures, existing or planned, in or near the project, traffic analysis or traffic impact study.

The Director may waive requirements for items determined unnecessary to review the project or proposal, based on the proposal application submission.

APPLICATION PROCESS

The Special Use Permit application will be reviewed by the Grayson County Planning Commission at their regular monthly meeting. If recommended for approval, the application will proceed to a review by the Grayson County Board of Supervisors. The application may take 2 - 3 months for approval. The <u>State Code of Virginia</u>, 1950 requires that a Public Hearing be held for both the Planning Commission and the Board of Supervisors to review a Special Use Permit. A Public Hearing notice will be issued in the paper announcing the Public Hearing and all adjoining landowners will be notified by certified mail. In order to process the request a complete application, required to rezone fee, and a current site plan or survey representing the property must be submitted to the Zoning Department at least 3 weeks prior to the Planning Commission meeting date.

Applicants are encouraged to research the potential of the site for the ability to meet all local, state and federal regulations prior to applying for a Special Use Permit. This should include a review of the project by Virginia Department of Transportation for the ability to meet commercial entrance requirements, Virginia Department of Health and/or provider of well and septic services, discussion with the Grayson County Building Official, review of Erosion and Sediment Control Plan where grading is involved and conversations with adjacent landowners about any affect on their property.

Any changes to the application once it is received must be submitted at least 7 days prior to the meeting of the Planning Commission. The Applicant or a representative must be present at the meeting at which the application for rezone is considered. If the decision of the Planning Commission or Board of Supervisors is to be appealed, the Applicant should submit an appeal of the decision per <u>State Code of Virginia</u>, 1950, as amended.

APPLICATION FEES

Must accompany the application and are as follows:

• Special Use Permit Fee \$55.00 + certified letter fee

The application fee will be assessed based on (cost of certified letters) x (number of the properties) required to be sent to adjoining landowners as required by the <u>Code of Virginia</u> for Public Hearing notice requirements.

APPLICANT AND OWNER CERTIFICATION OF SIGNATURE

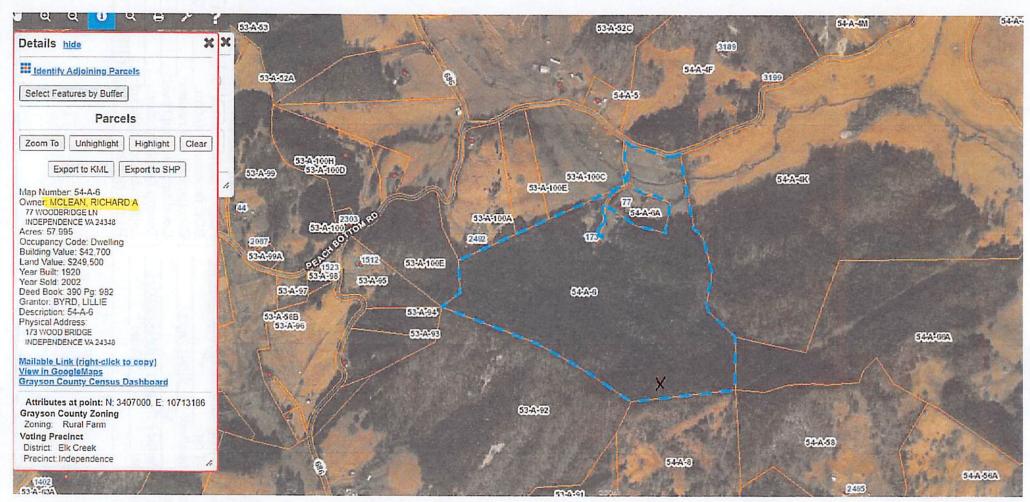
I certify that the information listed on this application is true and correct to the best of my belief and knowledge. By signing this application, I agree to permit duly authorized representative(s) of any regulatory or advisory agency to enter upon the subject property at reasonable times to inspect and photograph site conditions, both in reviewing a proposal to issue a permit(s) and after permit issuance to determine compliance with the permit

If the Applicant and Owner are different individuals, both must sign. If Applicant is the same, please sign as Owner.

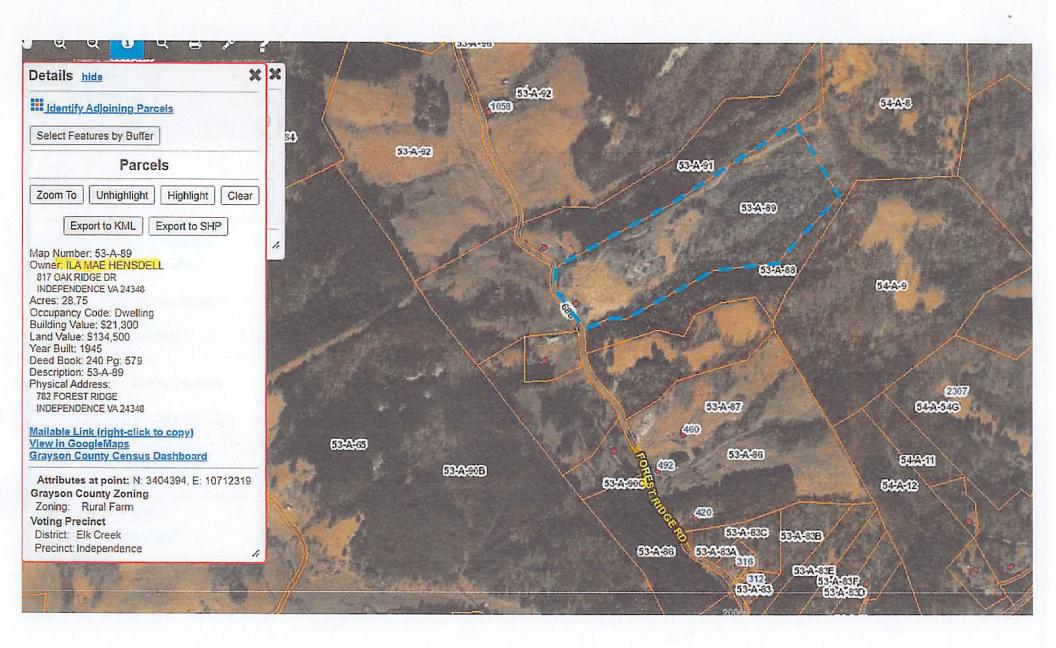
Applicant Signature	Giga	Beam	Network	<u> </u>	Date:	
Owner Signature	,				Date: 10-2	.6·ZZ
•			Page 4 of 5			

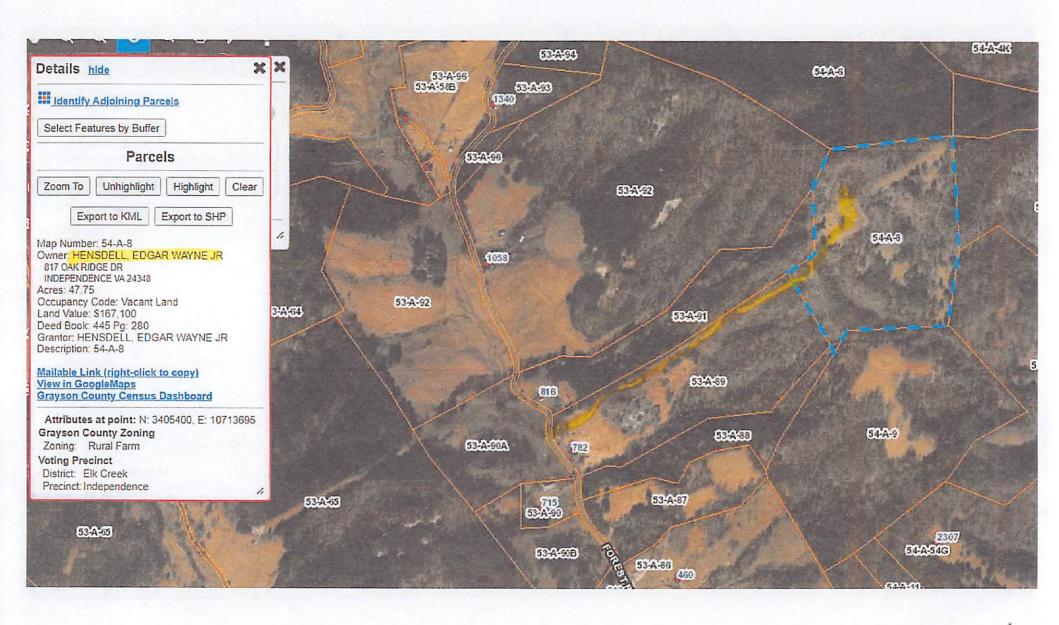
STAFF NOTES:

OFFICE USE ONLY - Special Use Permit A	Application - Form 0300 - Revised 05/07/12
Property ownership and zone review Application, and site plan submitted on 10/26/2022 Fee: WAVED Paid on: Building Official Consulted: 11/01/2022 VDOT Consulted: N/A Public Hearing notice for PC sent: 10/28/2022 PC Recommendation: Date:	Floodplain Review:



X= Tower





Hensdell 15' 15'





Grayson County Planning & Development Department Jada C Black PO Box 217 Independence, VA 24348

November 10, 2022

Dear Members of the Zoning Board:

GigaBeam Networks respectfully requests variance for the setback distance listed in county ordinances 3-14 and 3-15.8 regarding the distance from any adjacent property line or public street. If were required to adhere to this distance, due to the mountainous terrain, GigaBeam would relinquish the height needed for the tower to effectively service residents with internet service. We are also asking for variance regarding the fence requirement listed in property ordinance 3-15.9 as relation to the security fencing. These permits are for private property in secluded actions. Additionally with the rugged terrain, there would be no expectation of anyone around the towers.

GigaBeam will adhere to all other requirements including section 3-15.12 regarding the removal of abandoned antennas and towers, section 3-15.11 regarding the use of the towers by the county at no cost, and section 3a which states the towers will meet FAA regulations. The towers will initially be solar powered and will not have electrical lines to them.

GigaBeam greatly appreciates the consideration given to this request as we continue our combined efforts to provide internet access to Grayson County residents. If you have further questions or I may be of any assistance, please do not hesitate to contact me either by email or by phone.

Sincerely,

Greg Hedrick
Director of Construction Projects & Field Services
GigaBeam Networks
gregh@gigabeam.net
540-726-2317 ext. 255

This content is from the eCFR and is authoritative but unofficial.

Title 47 - Telecommunication

Chapter I - Federal Communications Commission

Subchapter A - General

Part 17 - Construction, Marking, and Lighting of Antenna Structures

Subpart B - Federal Aviation Administration Notification Criteria

Authority: 47 U.S.C. 154, 301, 303, 309.

§ 17.7 Antenna structures requiring notification to the FAA.

A notification to the FAA is required, except as set forth in <u>paragraph (e)</u> of this section, for any of the following construction or alteration:

- (a) Any construction or alteration of more than 60.96 meters (200 feet) in height above ground level at its site.
- (b) Any construction or alteration that exceeds an imaginary surface extending outward and upward at any of the following slopes:
 - (1) 100 to 1 for a horizontal distance of 6.10 kilometers (20,000 feet) from the nearest point of the nearest runway of each airport described in paragraph (d) of this section with its longest runway more than 0.98 kilometers (3,200 feet) in actual length, excluding heliports.
 - (2) 50 to 1 for a horizontal distance of 3.05 kilometers (10,000 feet) from the nearest point of the nearest runway of each airport described in paragraph (d) of this section with its longest runway no more than 0.98 kilometers (3,200 feet) in actual length, excluding heliports.
 - (3) 25 to 1 for a horizontal distance of 1.52 kilometers (5,000 feet) from the nearest point of the nearest landing and takeoff area of each heliport described in paragraph (d) of this section.
- (c) When requested by the FAA, any construction or alteration that would be in an instrument approach area (defined in the FAA standards governing instrument approach procedures) and available information indicates it might exceed an obstruction standard of the FAA.
- (d) Any construction or alteration on any of the following airports and heliports:
 - (1) A public use airport listed in the Airport/Facility Directory, Alaska Supplement, or Pacific Chart Supplement of the U.S. Government Flight Information Publications:
 - (2) A military airport under construction, or an airport under construction that will be available for public use;
 - (3) An airport operated by a Federal agency or the United States Department of Defense.
 - (4) An airport or heliport with at least one FAA-approved instrument approach procedure.
- (e) A notification to the FAA is not required for any of the following construction or alteration:
 - (1) Any object that will be shielded by existing structures of a permanent and substantial nature or by natural terrain or topographic features of equal or greater height, and will be located in the congested area of a city, town, or settlement where the shielded structure will not adversely affect safety in air navigation;

- (2) Any air navigation facility, airport visual approach or landing aid, aircraft arresting device, or meteorological device meeting FAA-approved siting criteria or an appropriate military service siting criteria on military airports, the location and height of which are fixed by its functional purpose;
- (3) Any antenna structure of 6.10 meters (20 feet) or less in height, except one that would increase the height of another antenna structure.

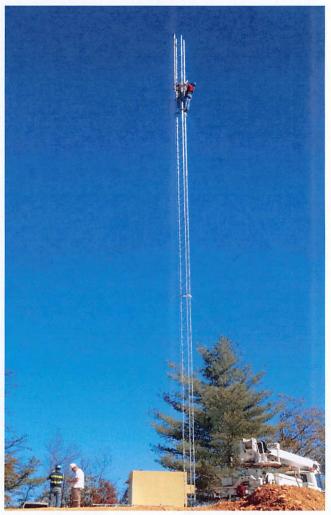
Note to § 17.7: Consideration to aeronautical facilities not in existence at the time of the filing of the application for radio facilities will be given only when proposed airport construction or improvement plans are on file with the Federal Aviation Administration as of the filing date of the application for such radio facilities.

[39 FR 7581, Feb. 27, 1974, as amended at 39 FR 26157, July 17, 1974; 42 FR 54823, Oct. 11, 1977; 42 FR 57127, Nov. 1, 1977; 79 FR 56986, Sept. 24, 2014]

Photo Simulations







jblack@graysoncountyva.gov

From:

cdavis@graysoncountyva.gov

Sent:

Friday, November 4, 2022 2:05 PM

To:

jblack@graysoncountyva.gov

Subject:

towers

Jada,

This is the code language for the towers.

SECTION 3108

TELECOMMUNICATION AND BROADCAST TOWERS

[BS] 3108.1General.

Towers shall be designed and constructed in accordance with the provisions of *TIA-222*. Towers shall be designed for seismic loads; exceptions related to seismic design listed in Section 2.7.3 of *TIA-222* shall not apply. In Section 2.6.6.2 of *TIA 222*, the horizontal extent of Topographic Category 2, escarpments, shall be 16 times the height of the escarpment.

Exception: Single free-standing poles used to support antennas not greater than 75 feet (22 860 mm), measured from the top of the pole to grade, shall not be required to be noncombustible.

[BS] 3108.2Location and access.

Towers shall be located such that guy wires and other accessories shall not cross or encroach on any street or other public space, or over above-ground electric utility lines, or encroach on any privately owned property without the written consent of the owner of the encroached-upon property, space or above-ground electric utility lines. Towers shall be equipped with climbing and working facilities in compliance with *TIA-222*. Access to the tower sites shall be limited as required by applicable OSHA, FCC and EPA regulations.

Thank you,

Chris Davis

Grayson County Building Official Grayson County Building Department P.O. Box 217 Independence, VA 24348 Phone: 276-773-2322 Cdavis@graysoncountyva.gov



