

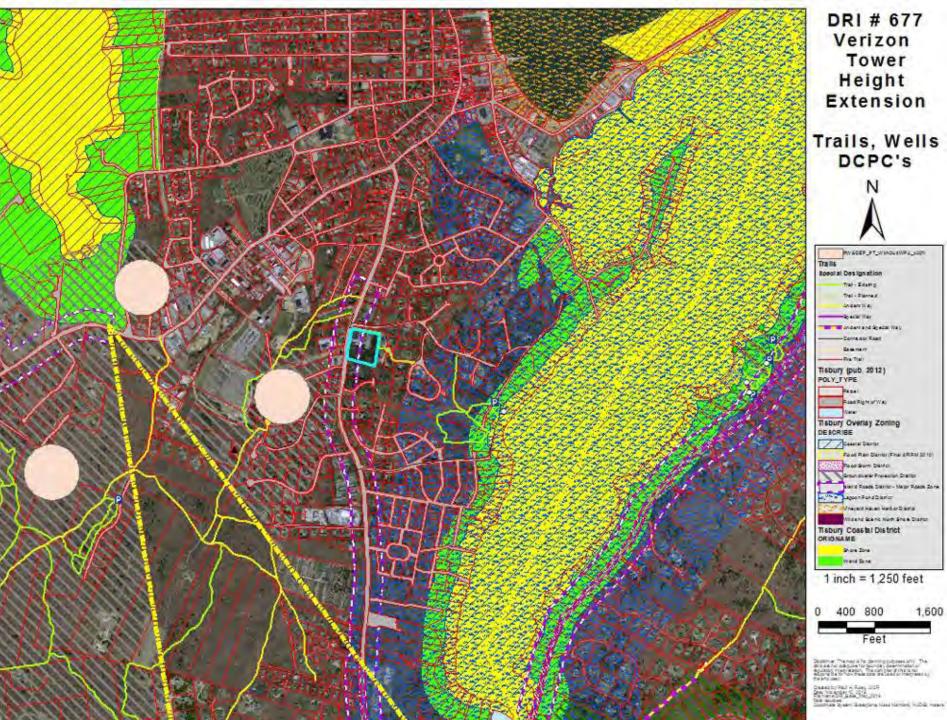
Basemap





1 inch = 1,250 feet

1,600



Trails, Wells DCPC's





1 inch = 1,250 feet

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Applicant: Verizon New England Inc; Geoghan Coogan Esq. (Agent).

Project Location: 228 Edgartown Road, Tisbury, Map 14-A Lot 3 (4.12 acres)

Proposal: To increase the height of the Verizon Tower used to transmit landline calls and Internet access via narrow width microwave between Vineyard Haven and Falmouth (also handles Nantucket) from 77 feet above the ground level to 130 feet ± above ground.

Zoning: R-20 Residential

Local Permits: Special Permit from ZBA; Building Permit

Project Summary:

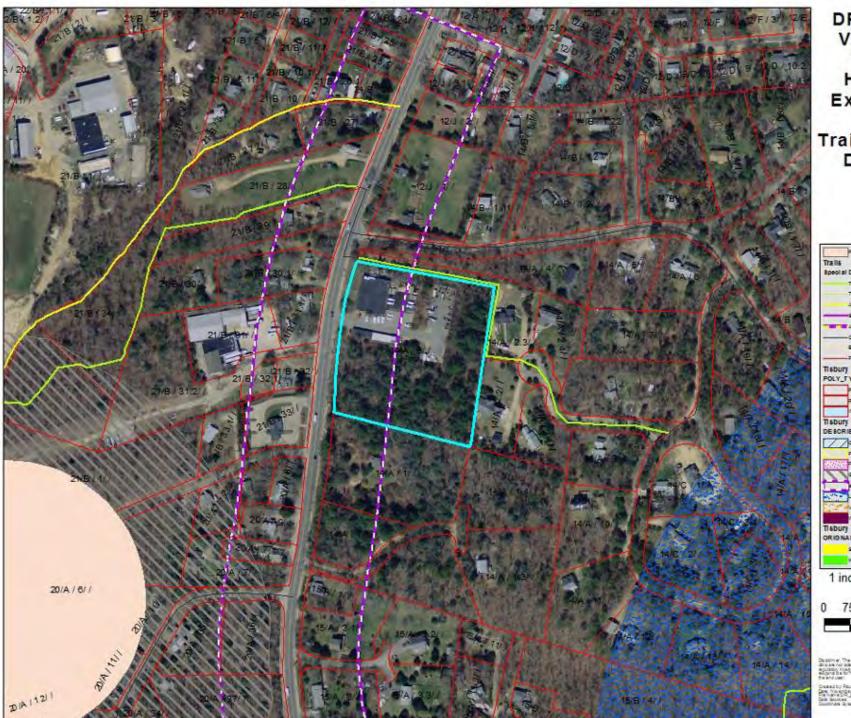
- To increase the height of the Verizon Tower used to transmit landline calls and Internet access via narrow width microwave between Vineyard Haven and Falmouth (also handles Nantucket) from 77 feet above the ground level to 130 feet ± above ground.
- The additional height will be constructed above the existing tower.
- The calls transmitted include police, fire department, EMS, E911 calls.
- One <u>new piece</u> of equipment, an 8' dish, will be installed on the tower at elevation <u>125'</u>.
- The following existing equipment on the tower will be relocated to a different height:
 - A 6' diameter dish at elevation 55' above ground will be re-installed at elevation 95';
 - A 6' diameter dish at elevation 6S' above ground will be re-Installed at elevation 102';
 - An 8' diameter dish at elevation 75' above ground will be re-installed at elevation of 128'.
- Applicant says that a number of trees In the Vineyard Haven area are approaching the height at which they will obstruct this transmission. Some of these trees are on private property and others are on public property and have been classified by the Town Tree Warden as shade trees which would require a public hearing to determine if they can be trimmed or removed.
- Verizon anticipates that these trees and others will grow and cause service interruptions
- Verizon's stated goal is to get as close to 100% annual two-way reliability as possible.

Planning Issues

Some Key Issues

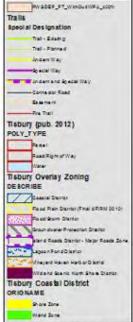
- Visibility: Existing and proposed photo simulations indicate that the higher tower will be significantly more visible along Edgartown-Vineyard Haven Road.
- **DCPC**: The existing tower is within the Island Roads DCPC. If the tower were moved <u>further back on the property</u> outside of the DCPC the tower would be <u>less visible</u> while driving along Edgartown Vineyard Haven Road. If the tower were moved further back on the property out of the DCPC then the <u>trees</u> identified as possible future obstructions <u>would not be in the line of sight</u> to the Falmouth towers and it does not appear from the photos submitted that any other trees would obstruct the line of sight to Falmouth.
- Necessity: The tower is proposed to be heightened by 53 feet (a 69% increase) from 77' to 130' tall in order to avoid possible future transmission interruption due to tree growth. The lowest dish on the proposed higher tower is located at elevation 95'.
 - The three trees in question may not ever grow to the point of interference.
 - In the event that they do grow to that height, by the time they did so the technology might change.
 - Alternatively, if the full height proposed now were reduced to what is necessary for the next 10-15 years, the tower could be heightened to the proposed height if and when necessary.

NOTE: The applicant is proposing to extend the height of an existing tower not build a new taller tower.



Trails, Wells DCPC's



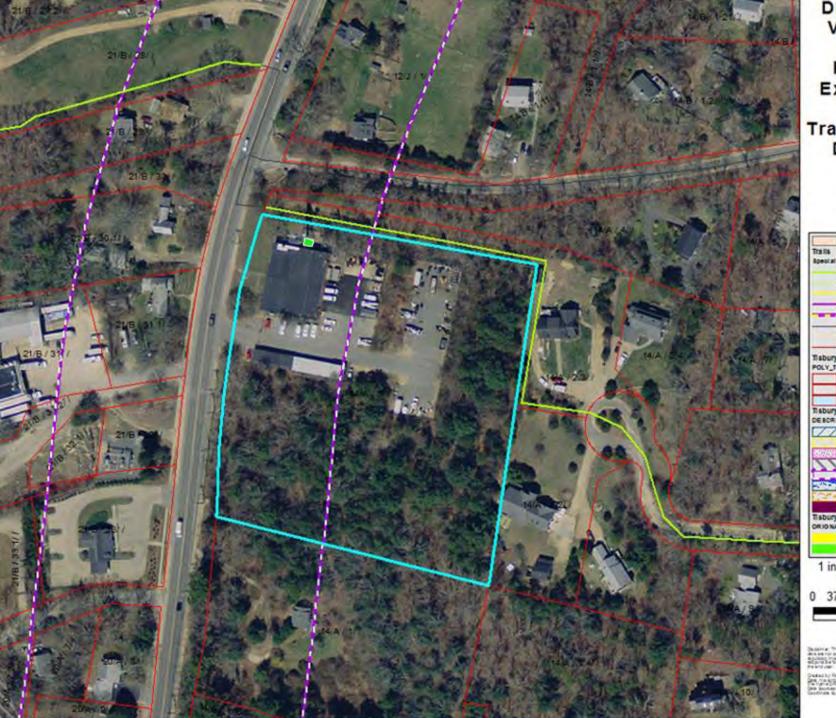


1 inch = 250 feet

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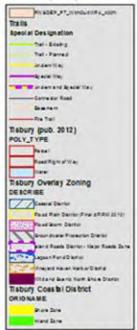
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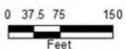


Trails, Wells DCPC's





1 inch = 125 feet

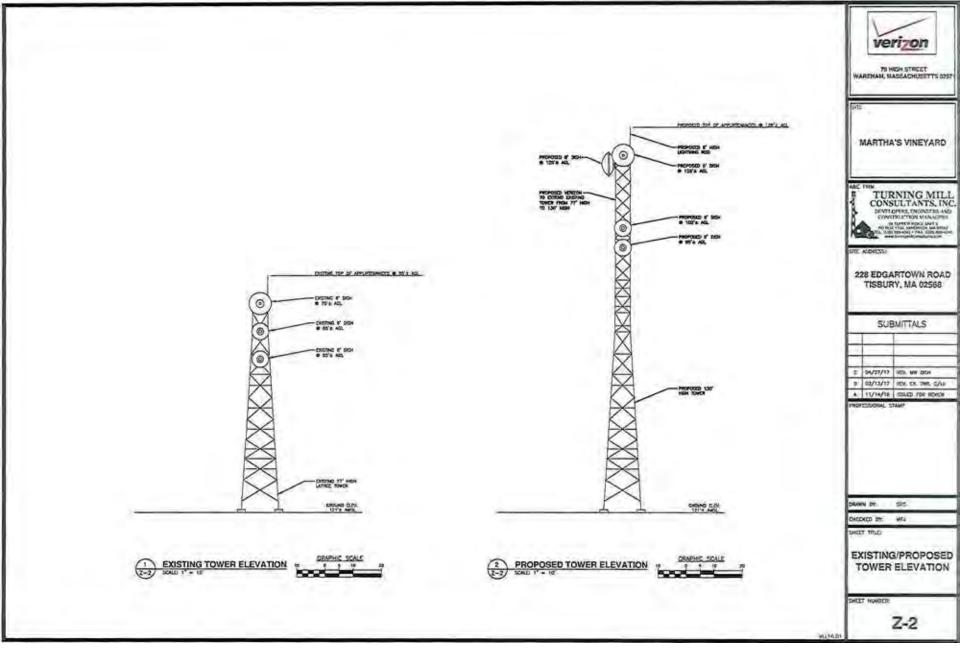


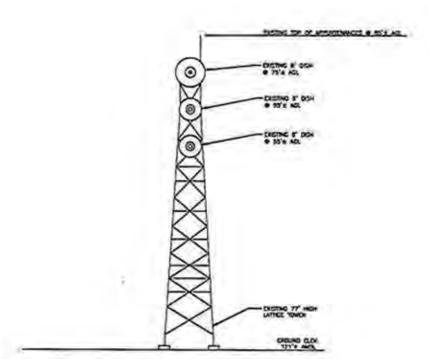
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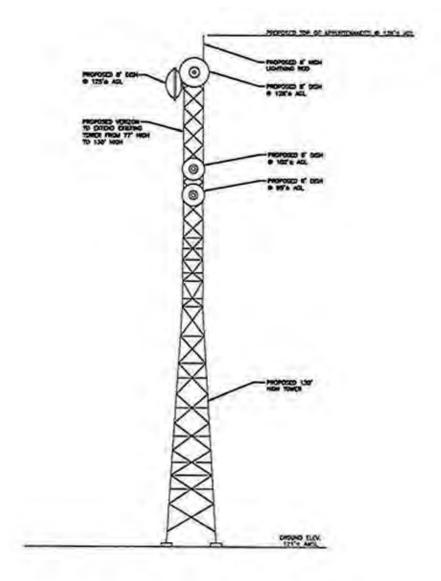
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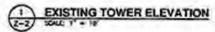
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Existing versus Proposed Tower Height





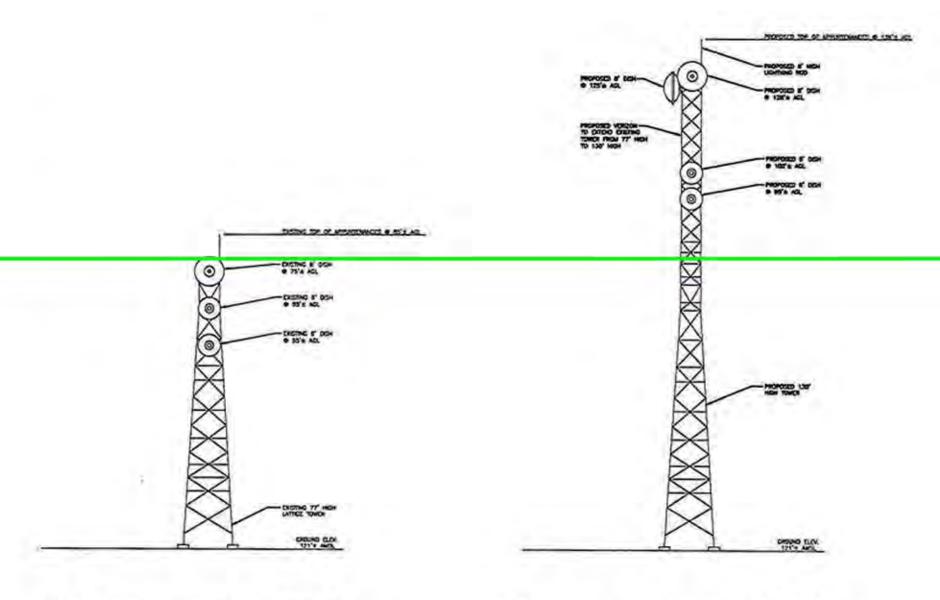


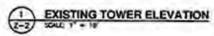




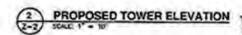




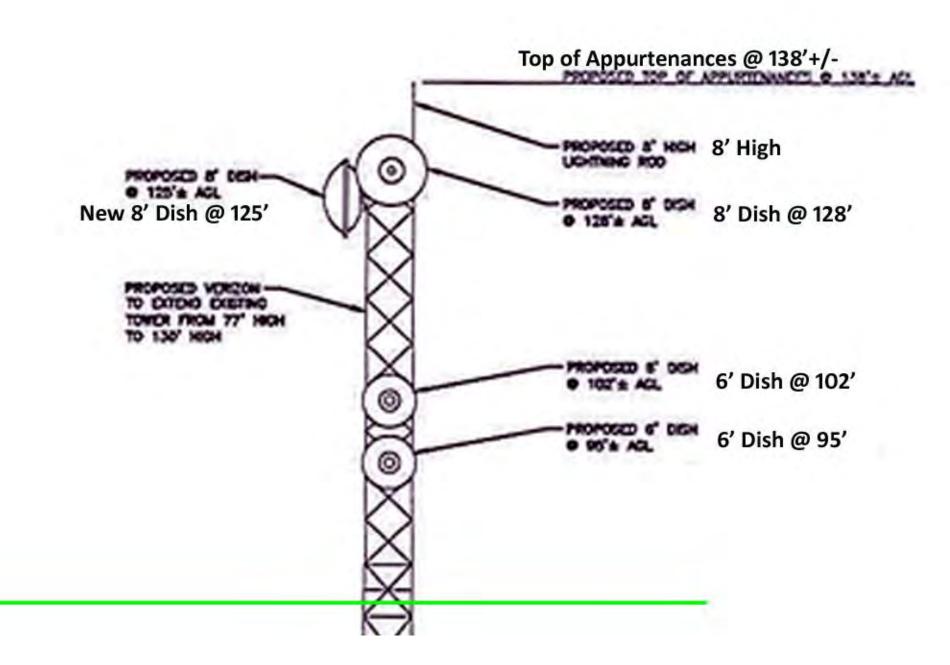














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TURNING MILL CONSULTANTS, INC. DEVELOPERS, ENCIREDED AND CONSTRUCTION MANAGERS

PREPARED BY:



SITE NO: VLL16.01

SITE NAME: MARTHA'S VINEYARD

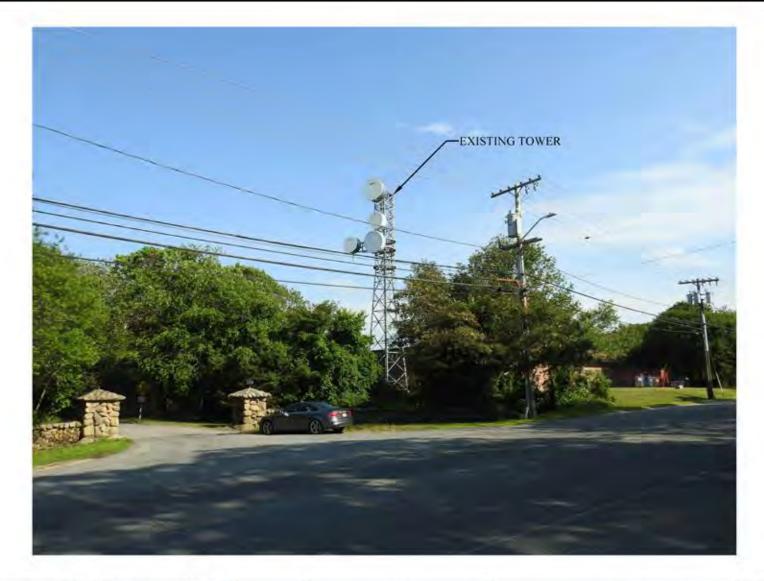
228 EDGARTOWN ROAD ADDRESS: TISBURY, MA 02568

KEY MAP OF PHOTOS

PAGE: MAP-1

DATE: 7/20/2017

DRAWN BY: MR





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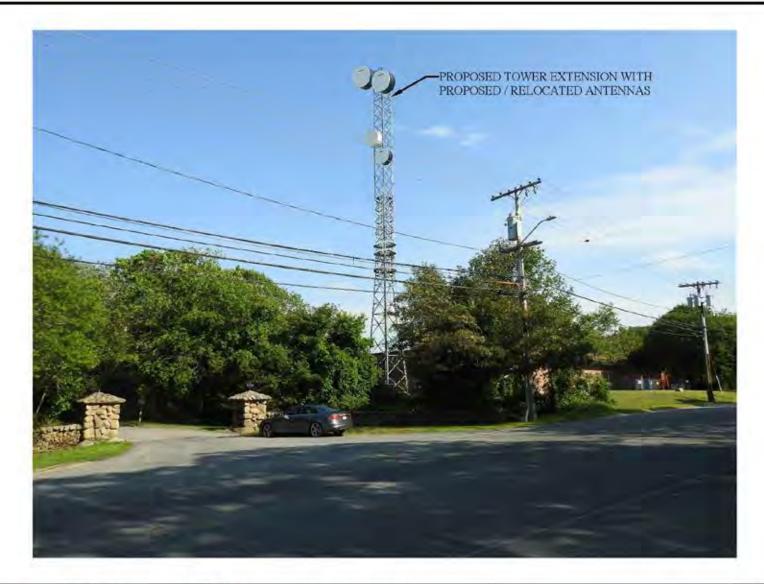
SITE NAME: MARTHA'S VINEYARD

ADDRESS: 228 EDGARTOWN ROAD TISBURY, MA 02568 VIEW #1

EXISTING VIEW FROM THE WEST AT THE INTERSECTION OF EDGARTOWN ROAD AND WINYAH LANE PAGE: V-1E

DATE: 7/20/2017

DRAWN BY: MR



TURNING MILL CONSULTANTS, INC. CONSTRUCTION MANAGERS

CONTRACTOR:

PREPARED BY:



SITE NO: VLL16.01

SITE NAME: MARTHA'S VINEYARD

ADDRESS: 228 EDGARTOWN ROAD TISBURY, MA 02568

VIEW #1

PROPOSED VIEW FROM THE WEST AT THE INTERSECTION OF EDGARTOWN ROAD AND WINYAH LANE

PAGE: V-1P

DATE: 09/17/2018

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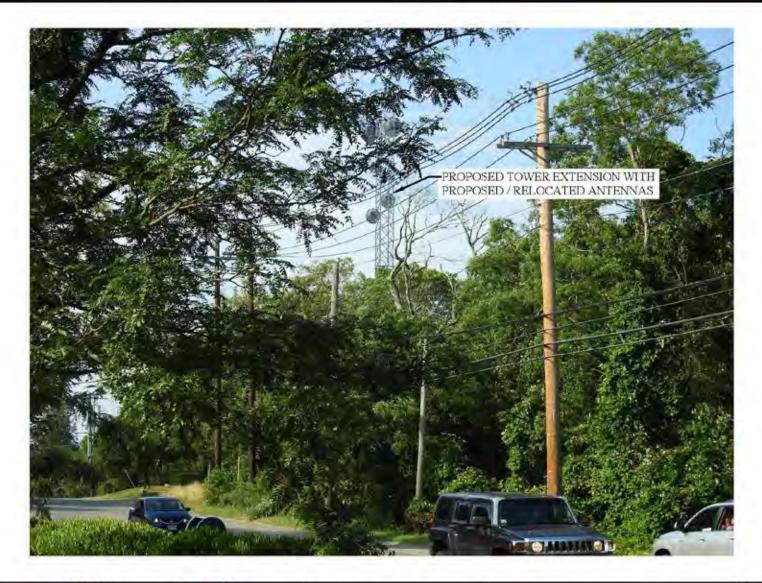
ADDRESS: 228 EDGARTOWN ROAD TISBURY, MA 02568

VIEW #2 EXISTING VIEW FROM THE SOUTH ON EDGARTOWN ROAD

PAGE: V-2E

DATE: 7/20/2017

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SITE NAME: MARTHA'S VINEYARD

ADDRESS: 228 EDGARTOWN ROAD TISBURY, MA 02568 VIEW #2

PROPOSED VIEW FROM THE SOUTH ON EDGARTOWN ROAD PAGE: V-2P

DATE: 09/17/2018

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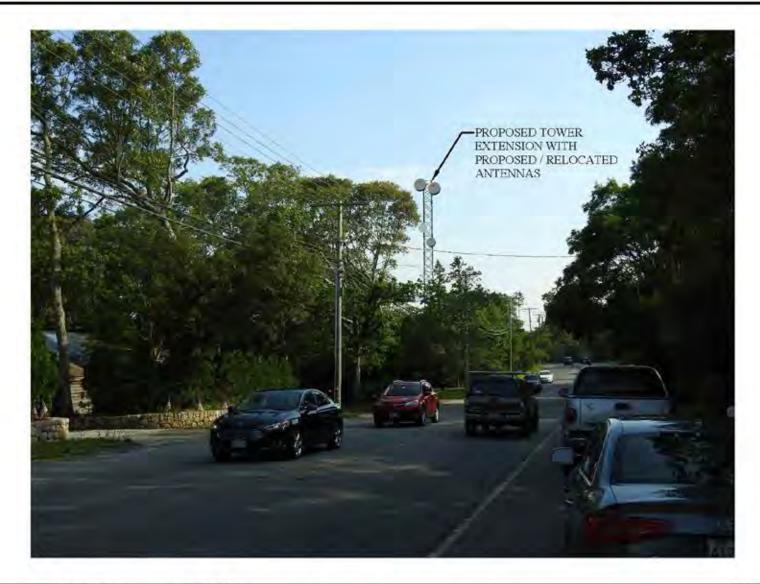
SITE NAME: MARTHA'S VINEYARD

ADDRESS: 228 EDGARTOWN ROAD TISBURY, MA 02568 VIEW #3

EXISTING VIEW FROM THE NORTH AT THE INTERSECTION OF EDGARTOWN ROAD AND CROMWELL STREET PAGE: V-3E

DATE: 09/17/2018

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ADDRESS: 228 EDGARTOWN ROAD TISBURY, MA 02568 V1EW #3

PROPOSED VIEW FROM THE NORTH AT THE INTERSECTION OF EDGARTOWN ROAD AND CROMWELL STREET PAGE: V-3P

DATE: 09/17/2018

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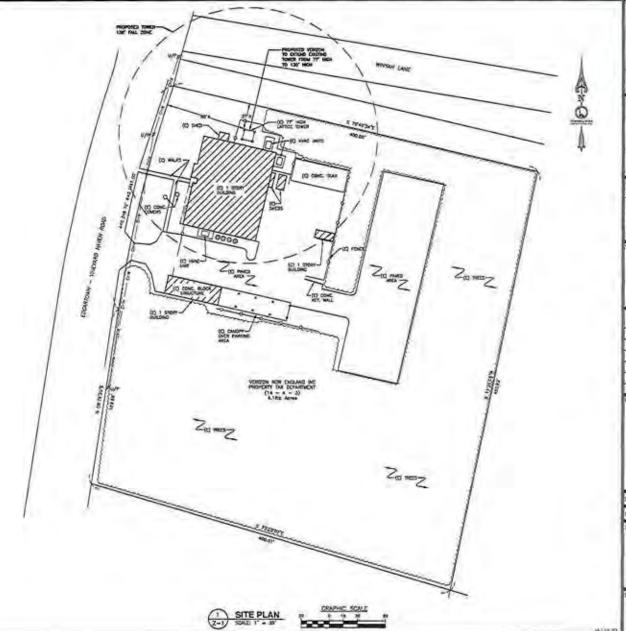
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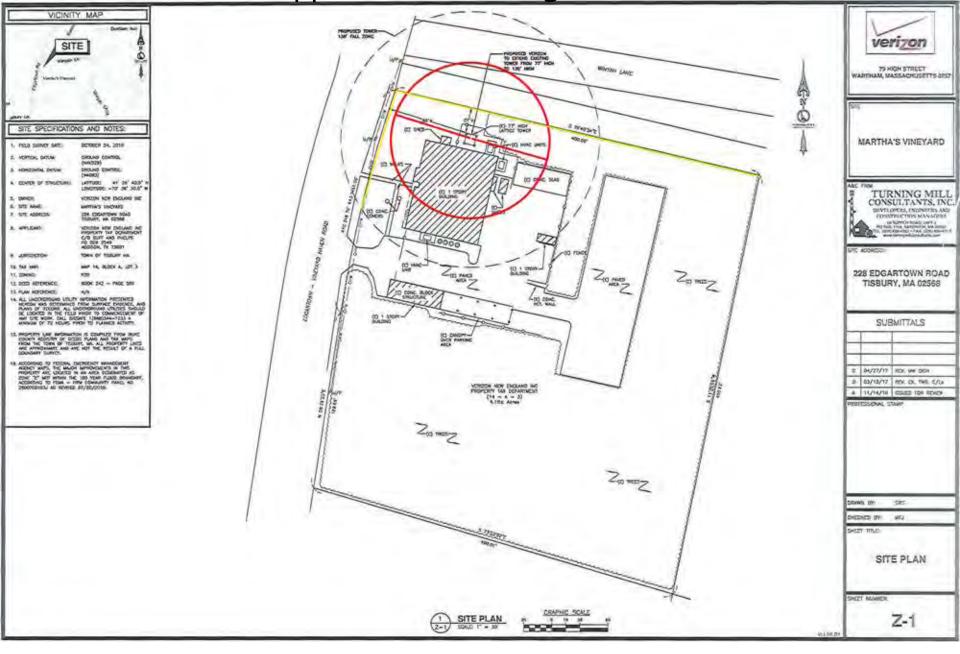
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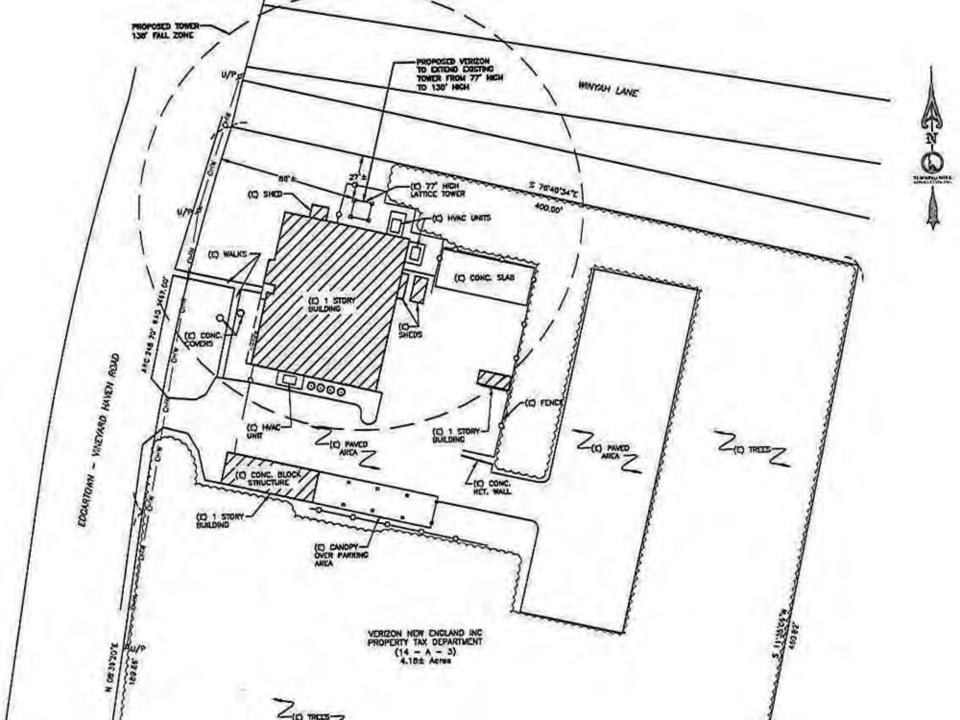
SITE PLAN

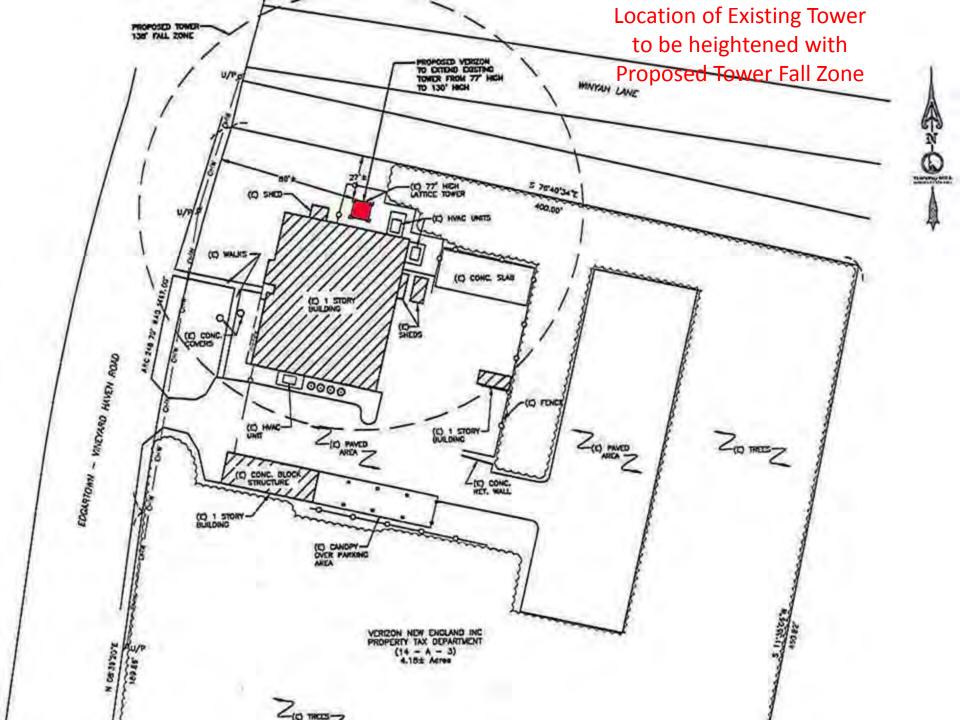
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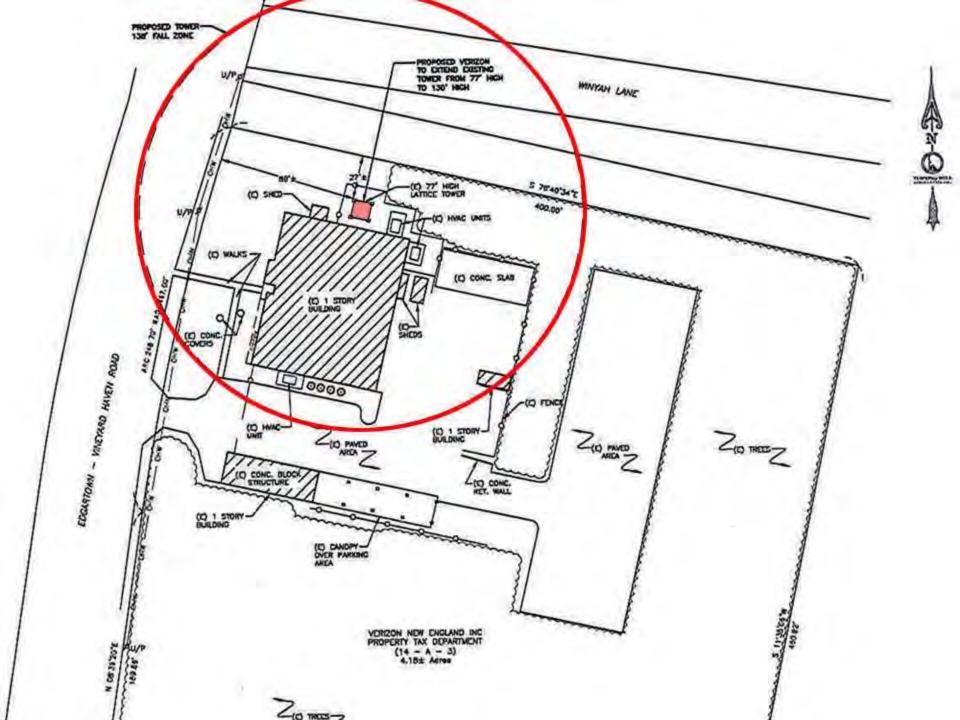
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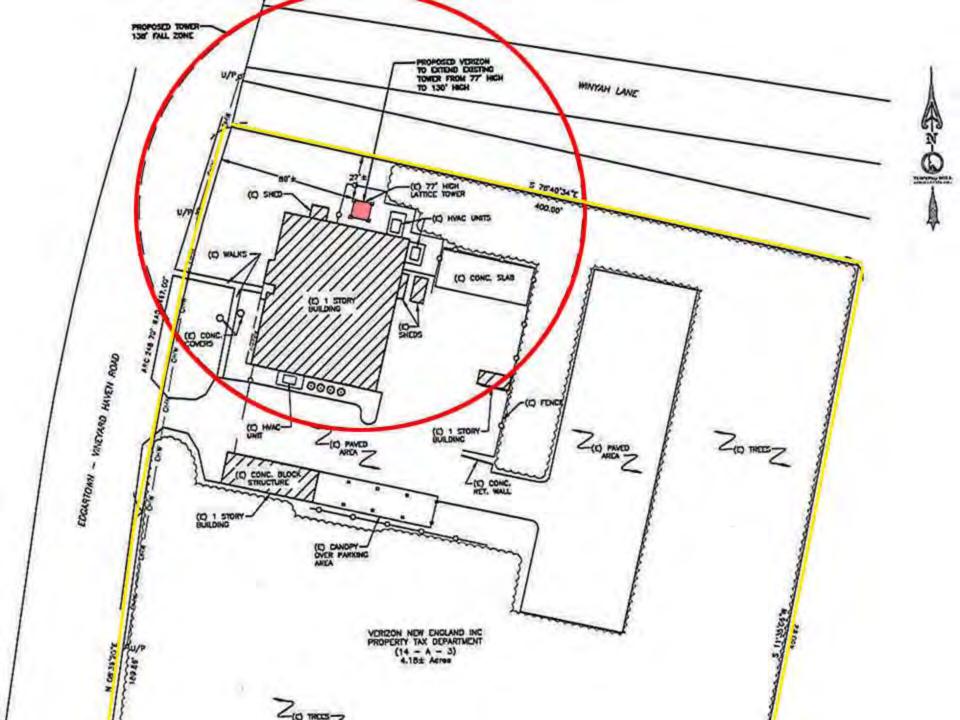
Approximate Existing Fall Zone

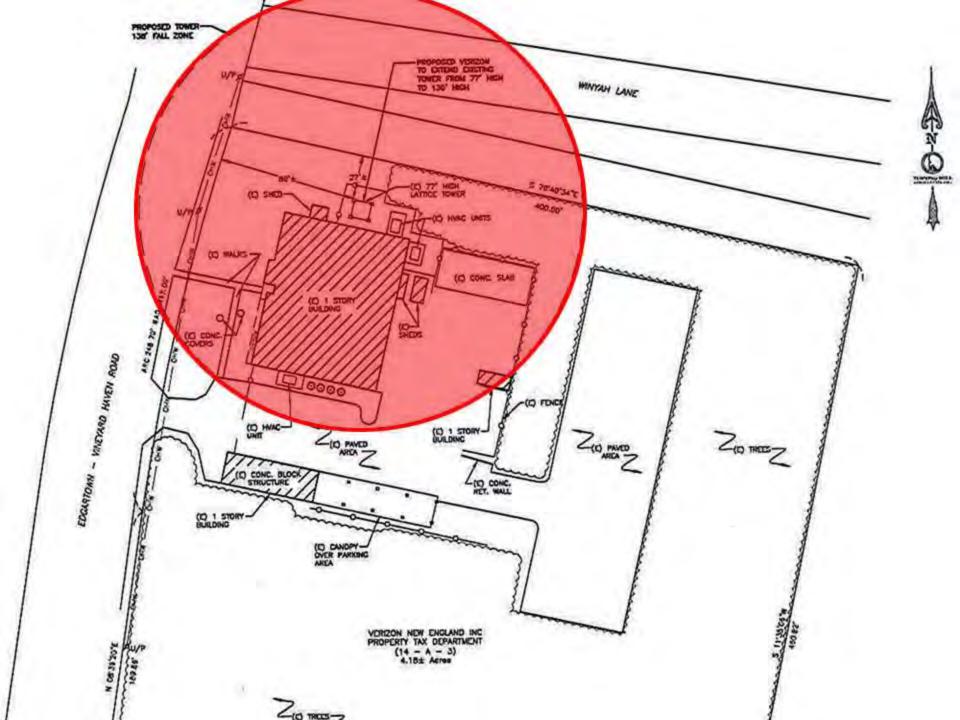


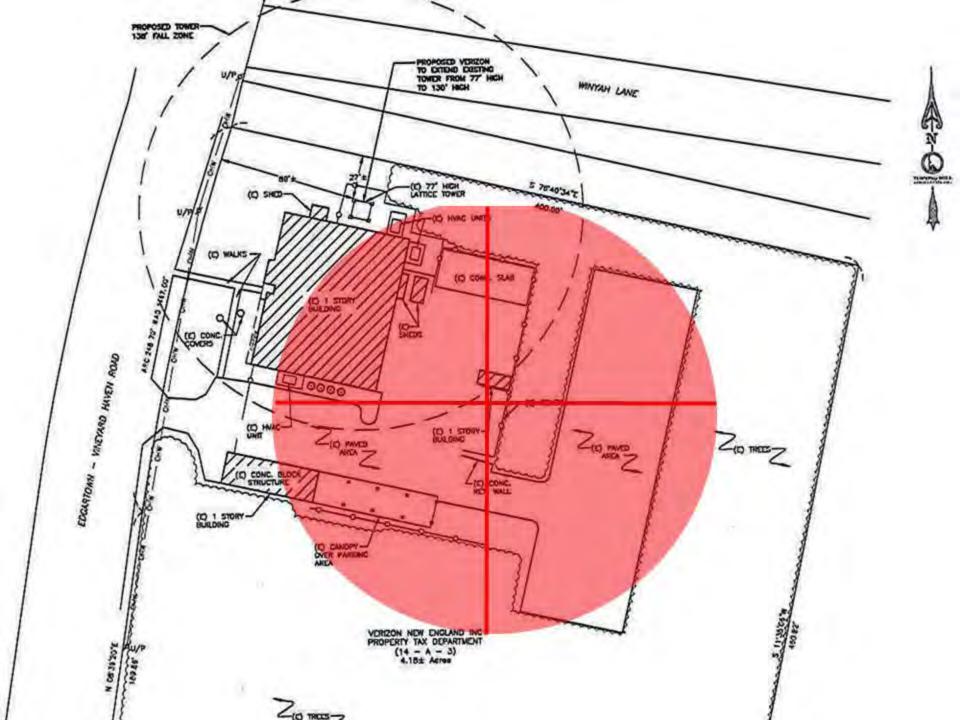


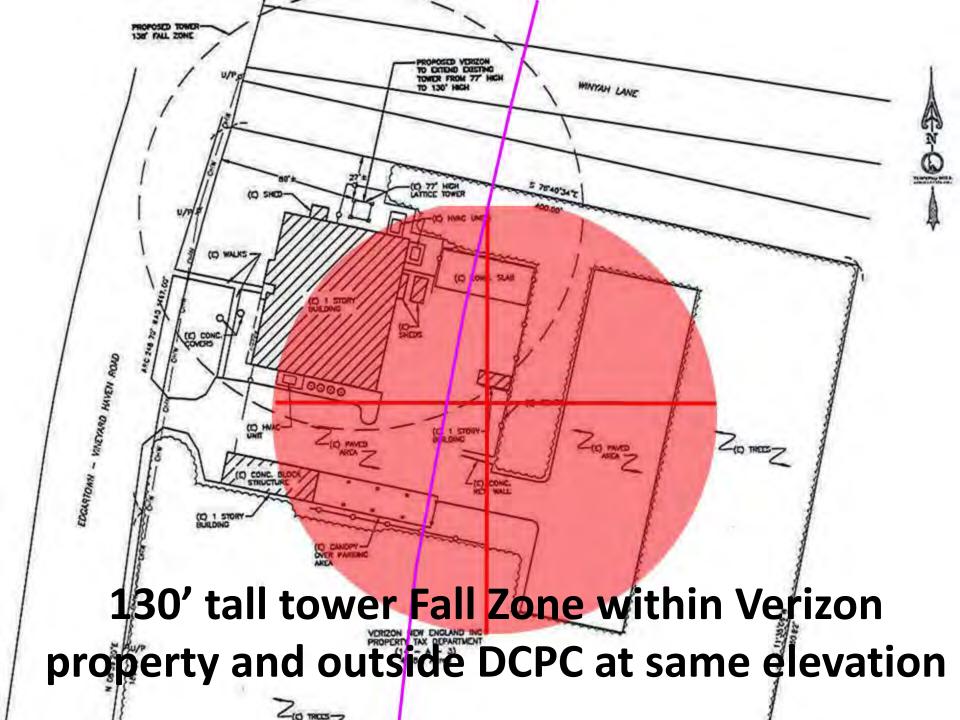


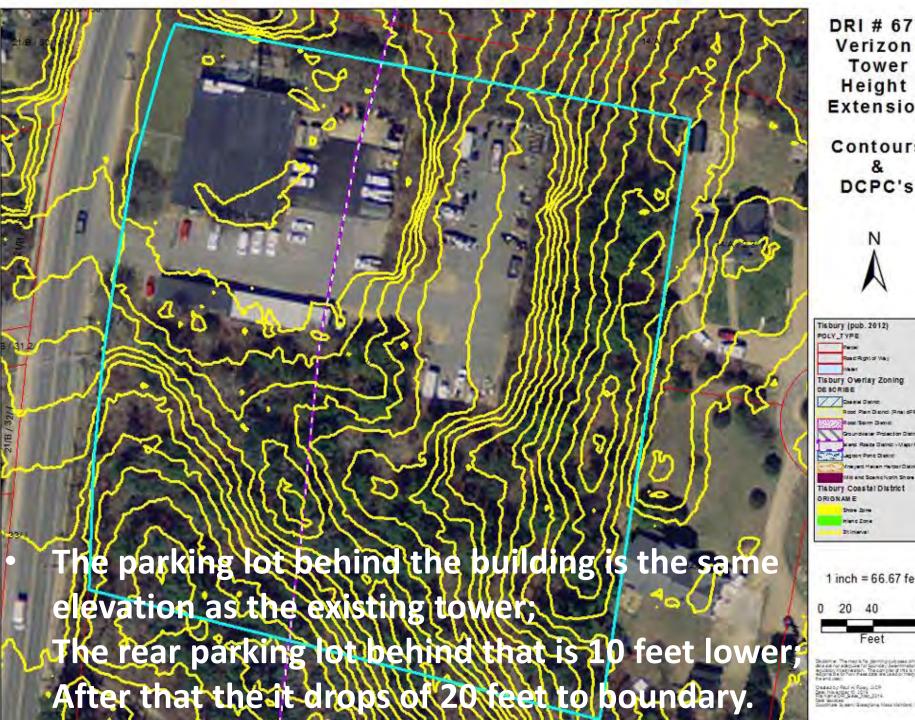








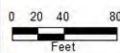


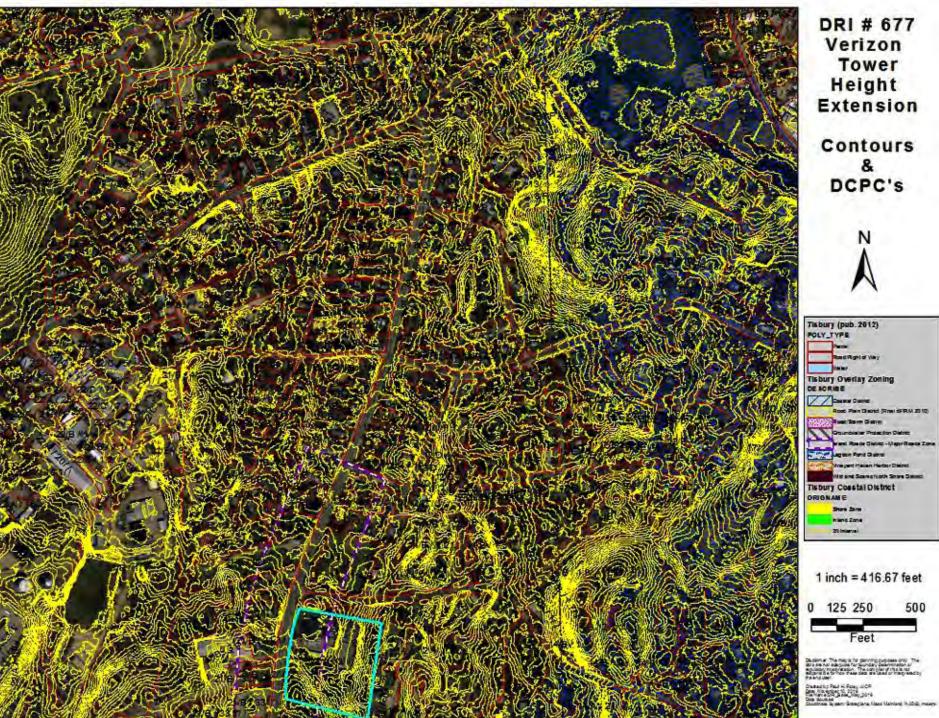


Contours



1 inch = 66.67 feet





Contours DCPC's

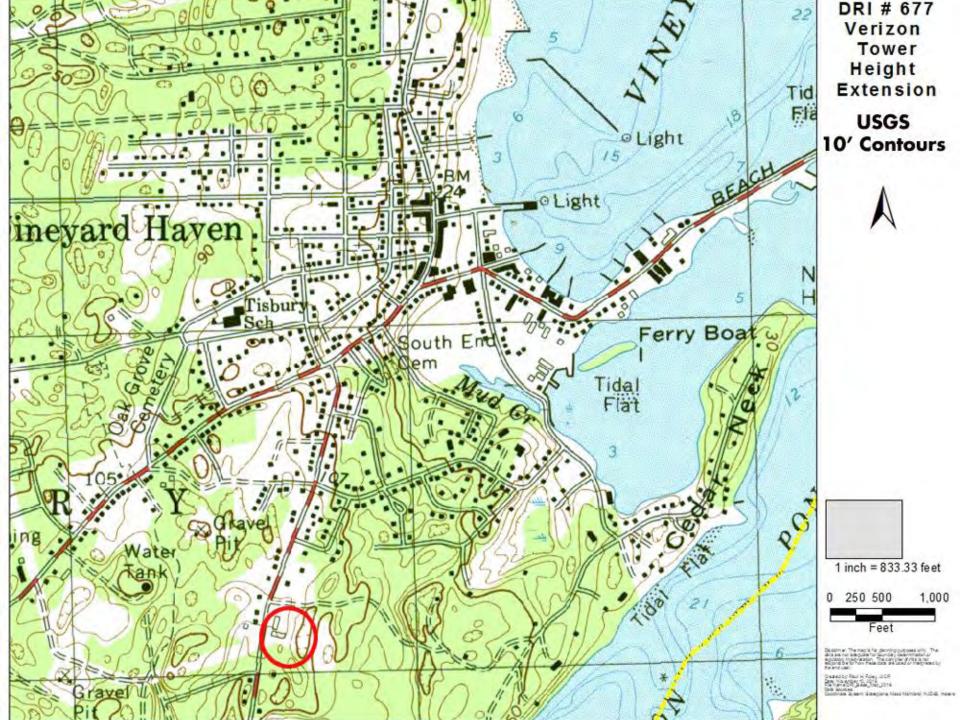




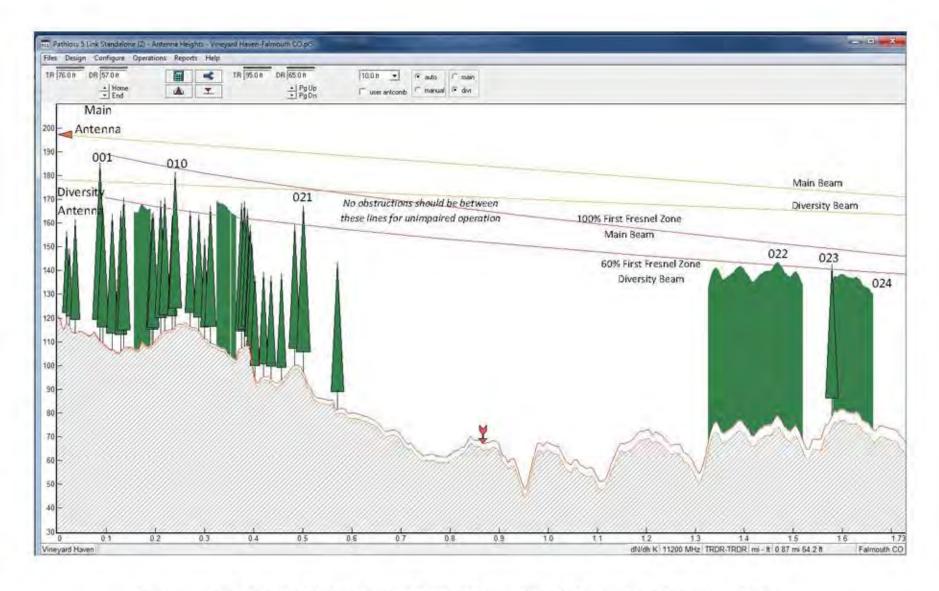
1 inch = 416.67 feet

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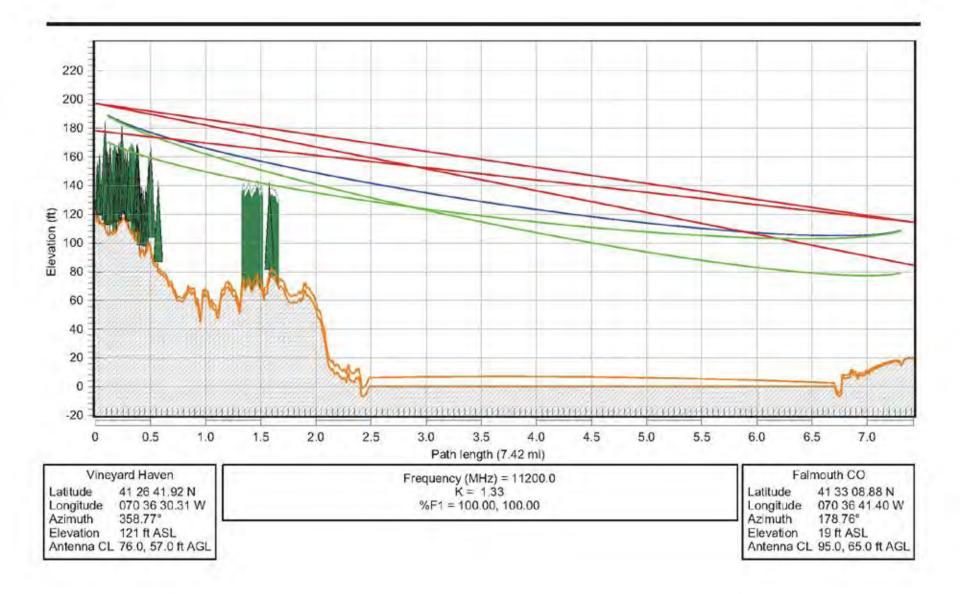
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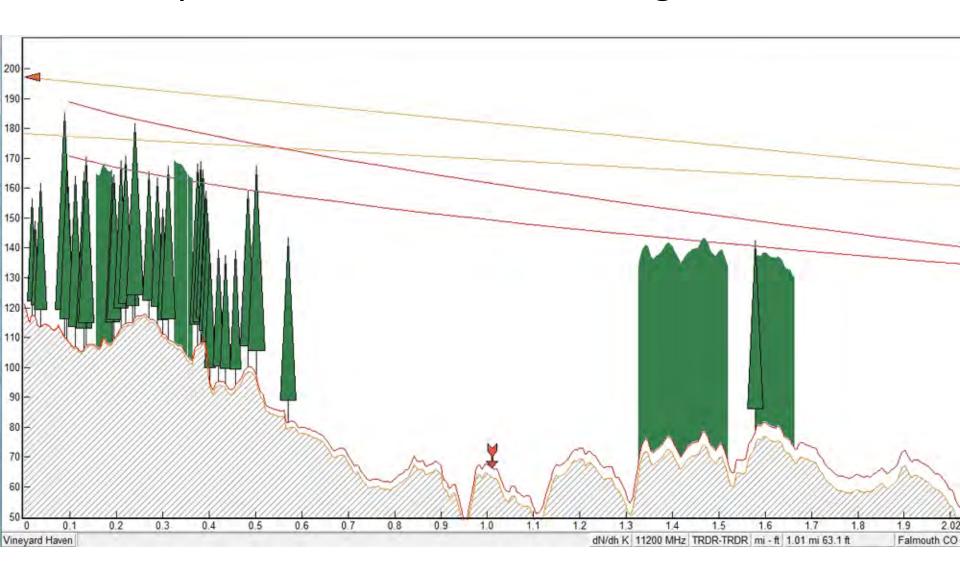




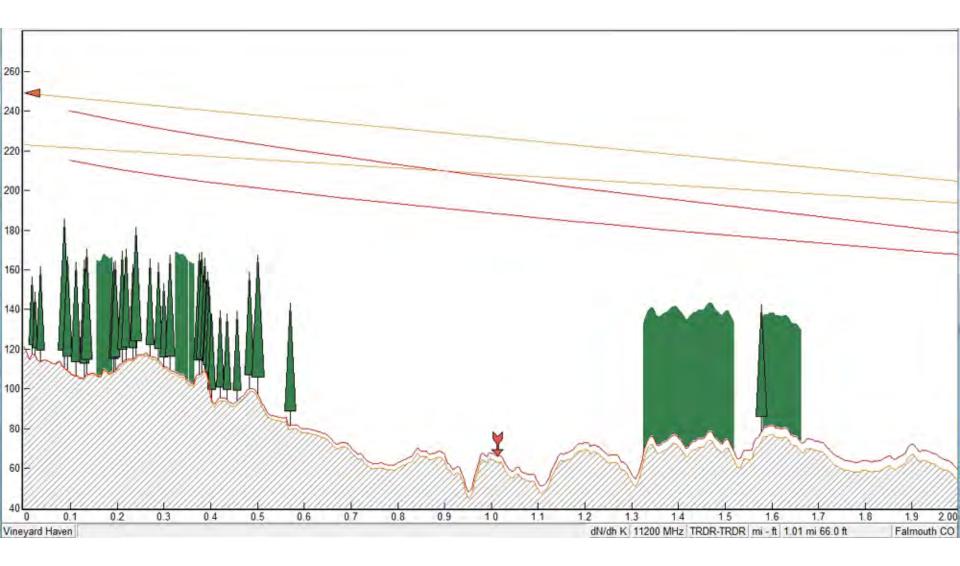
Vineyard Haven to Falmouth CO Path Profile (0 to 1.73 Miles) Main and Diversity Antennas Zoom from Pathloss 5 Software



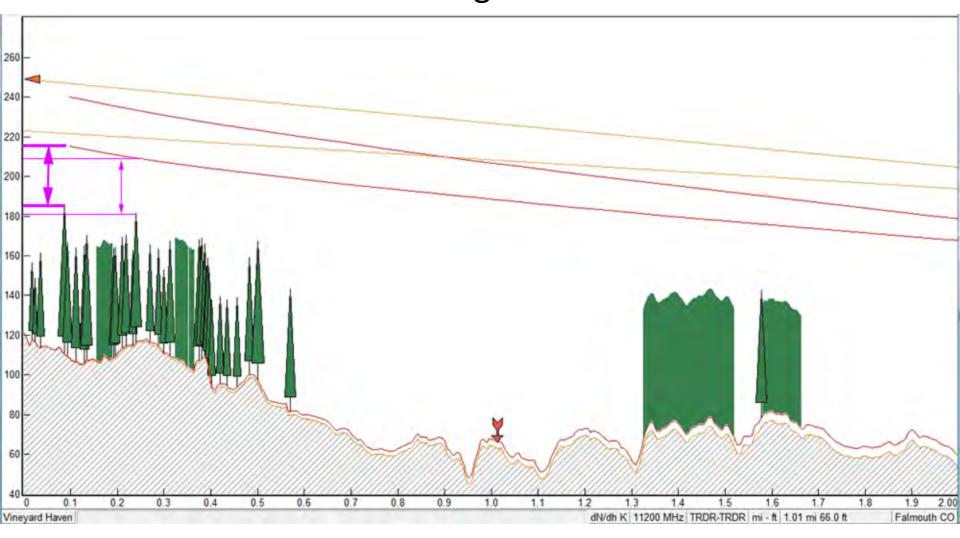
Vineyard to Falmouth CO Existing Centerline

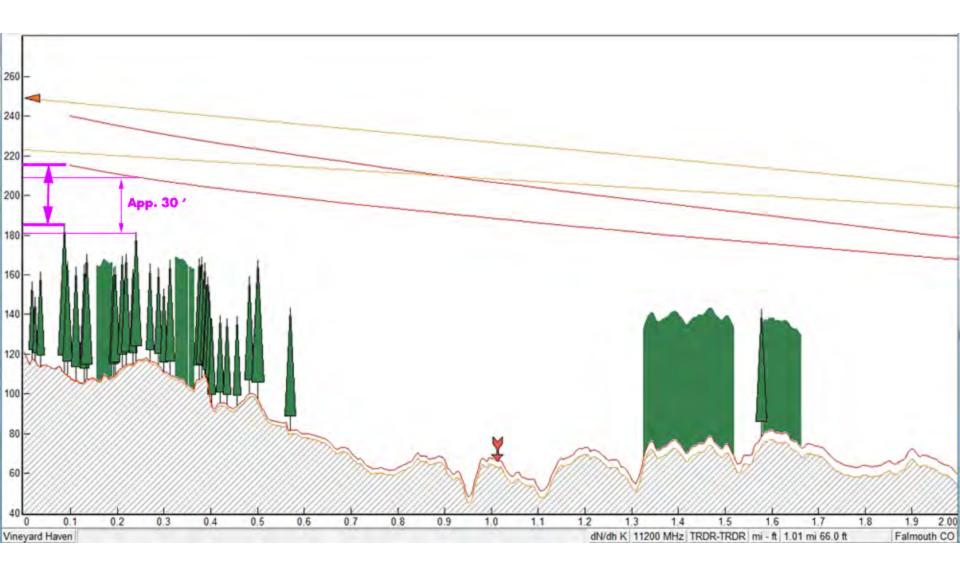


Vineyard to Falmouth CO Proposed Centerline

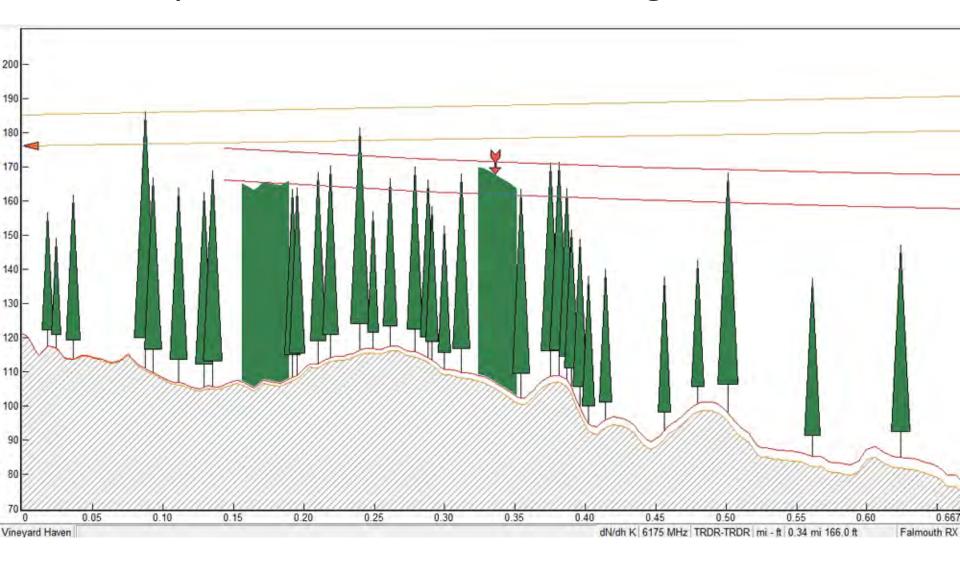


The tallest trees would appear to have to grow approximately another 30 feet before reaching the lower Fresnel curve line.

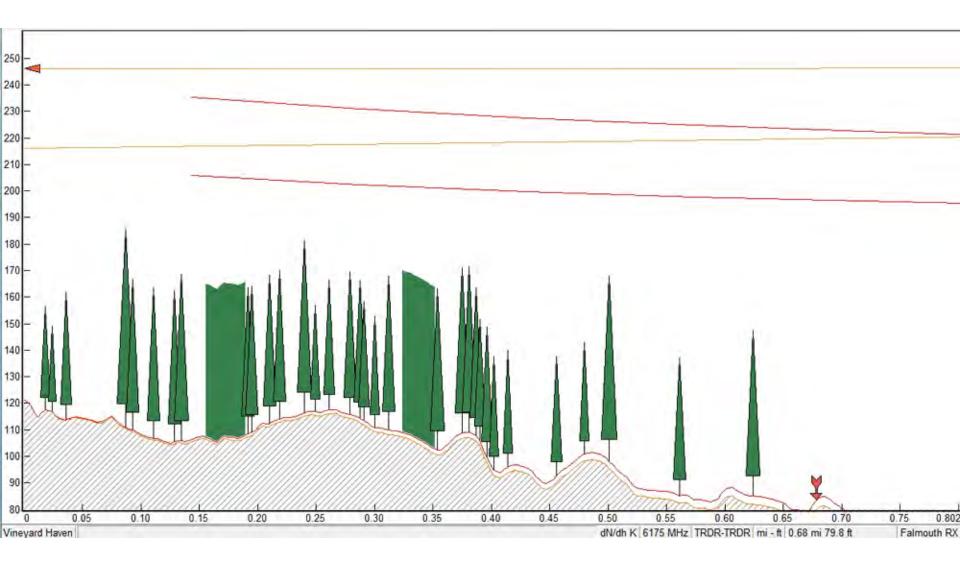




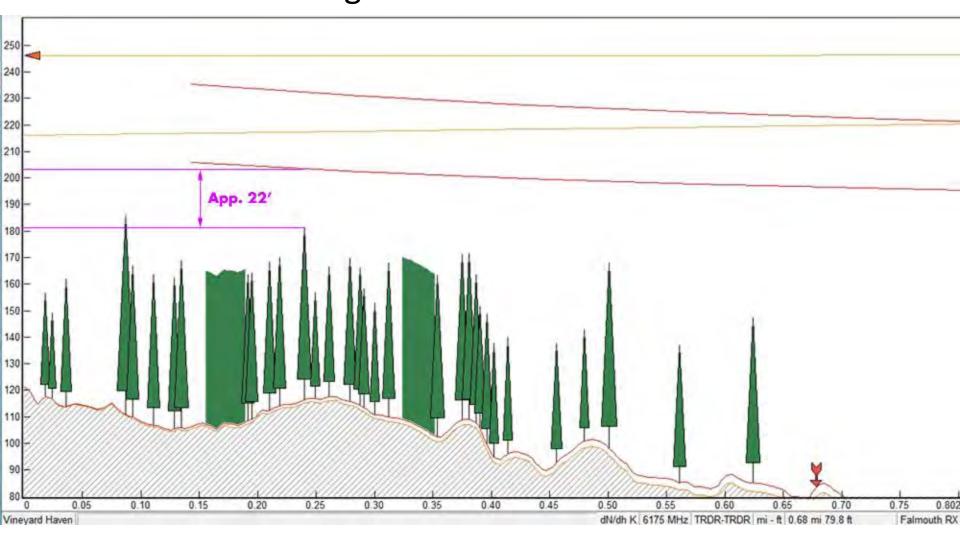
Vineyard to Falmouth RX Existing Centerline



Vineyard to Falmouth RX Proposed Centerline



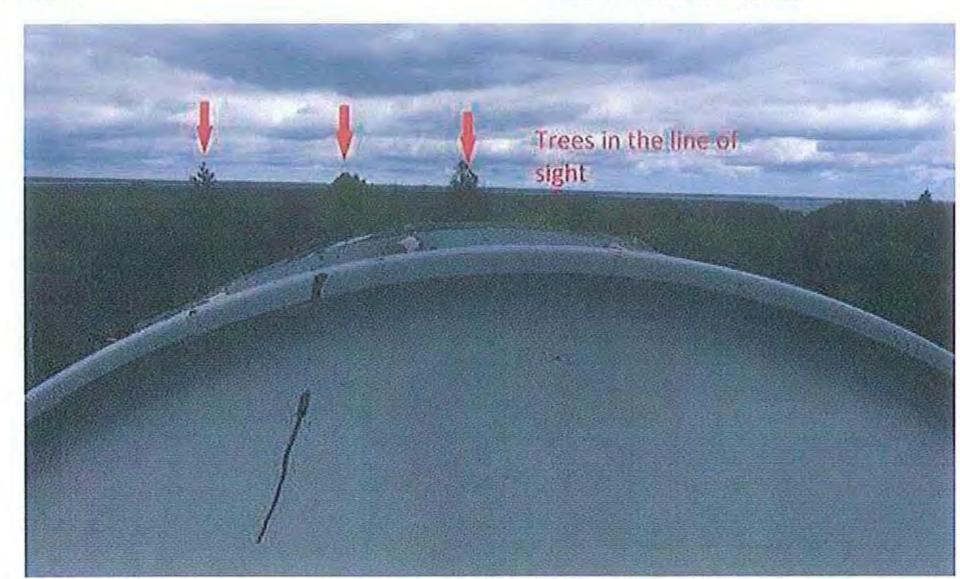
The tallest tree would appear to have to grow approximately 22 feet before reaching the lower RX Fresnel curve line.



Applicant image of "Trees in the line of sight"

4/27/2017

Verizon Vineyard Haven Trees.jpg



Applicant image indicating "Microwave Antenna Pointing Direction"

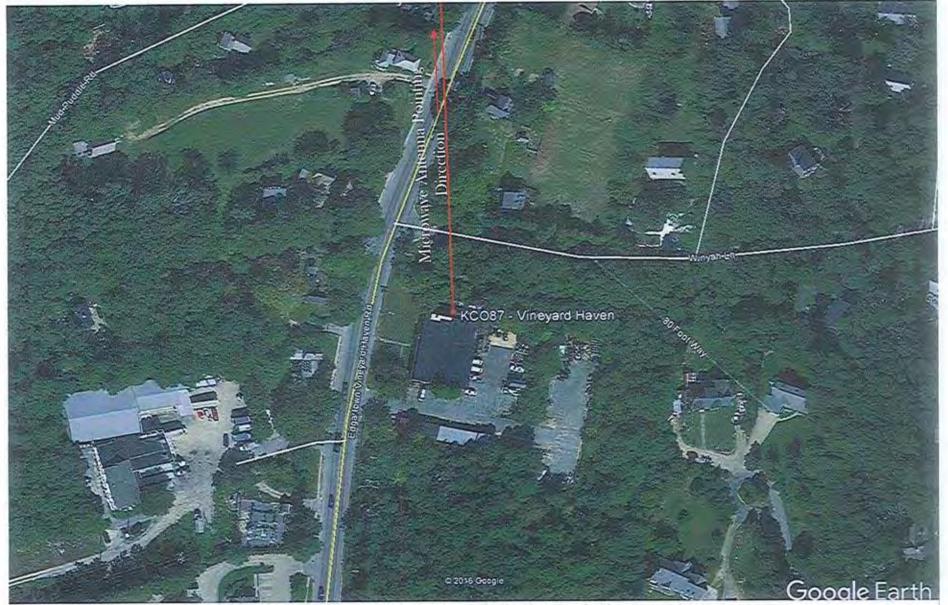
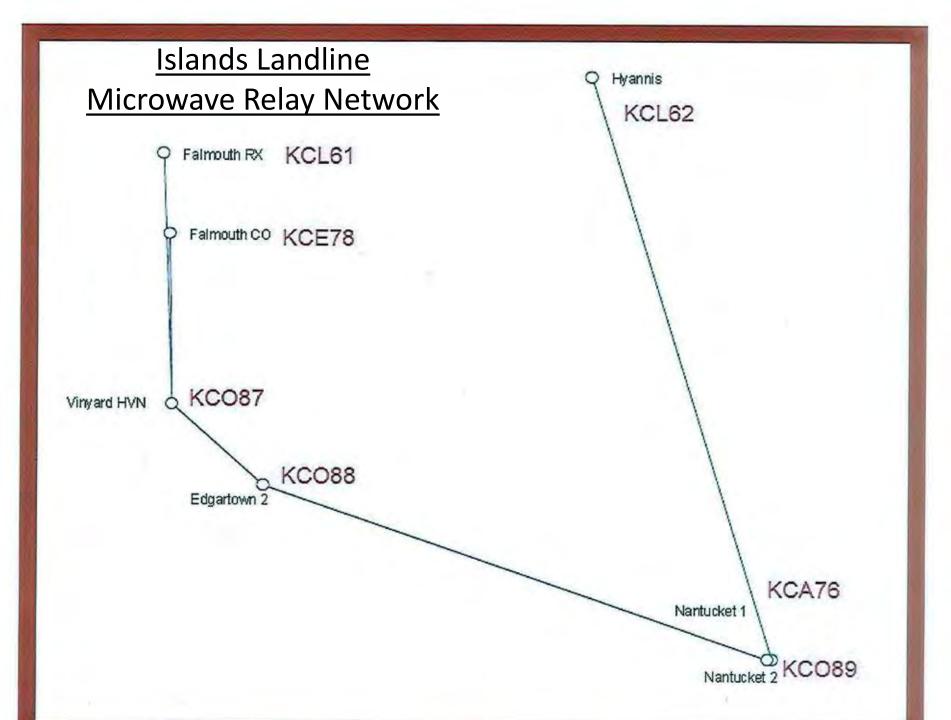
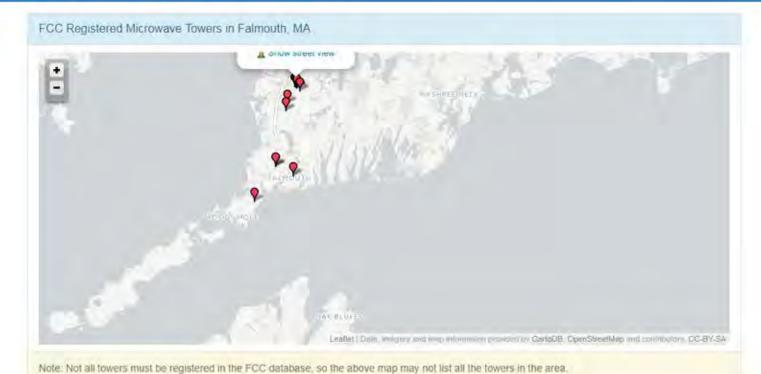


Figure 1 - Aerial Image Showing Location/Azimuth of Microwave Antennas



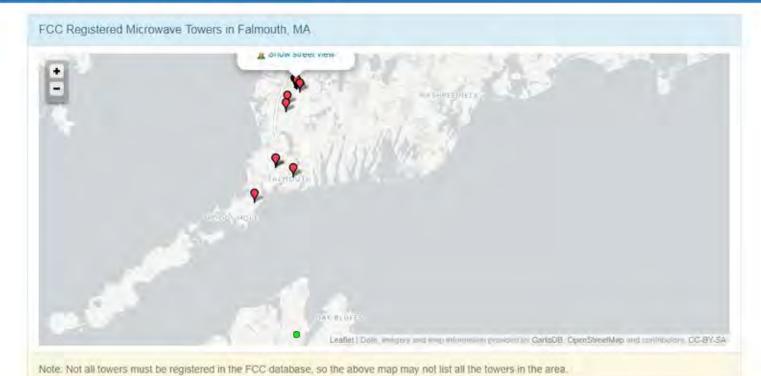
Full list of 12 FCC Registered Microwave Towers in Falmouth, MA



FALMOUTH, Thomas B Landers Rd (Lat. 41.614528, Lon. -70.608639), Type: Tower, Structure height: 59.7 m, Call Sign: WLW638, Assigned Frequencies: 6093.45 MHz, 6063.80 MHz, 6004.50 MHz, 10583.1 MHz, 10593.1 MHz, 10587.5 MHz, Grant Date: 01/11/2011, Expiration Date: 02/01/2021, Cancellation Date: 02/25/2013, Registrant: Verizon Wireless, 1120 Sanctuary Pkwy, #150 Gasa5reg, Alpharetta, GA 30009-7630, Phone: (770) 797-1070, Fax. (770) 797-1036, Email: licensingcompliance@verizonwireless.com

Find on map

Full list of 12 FCC Registered Microwave Towers in Falmouth, MA



FALMOUTH, Thomas B Landers Rd (Lat: 41.614528, Lon: -70.608639), Type: Tower, Structure height: 59.7 m, Call Sign: WLW638, Assigned Frequencies: 6093.45 MHz, 6063.80 MHz, 6004.50 MHz, 10583.1 MHz, 10593.1 MHz, 10587.5 MHz, Grant Date: 01/11/2011, Expiration Date: 02/01/2021, Cancellation Date: 02/25/2013, Registrant: Verizon Wireless, 1120 Sanctuary Pkwy, #150 Gasa5reg, Alpharetta, GA 30009-7630, Phone: (770) 797-1070, Fax: (770) 797-1036, Email: licensingcompliance@verizonwireless.com

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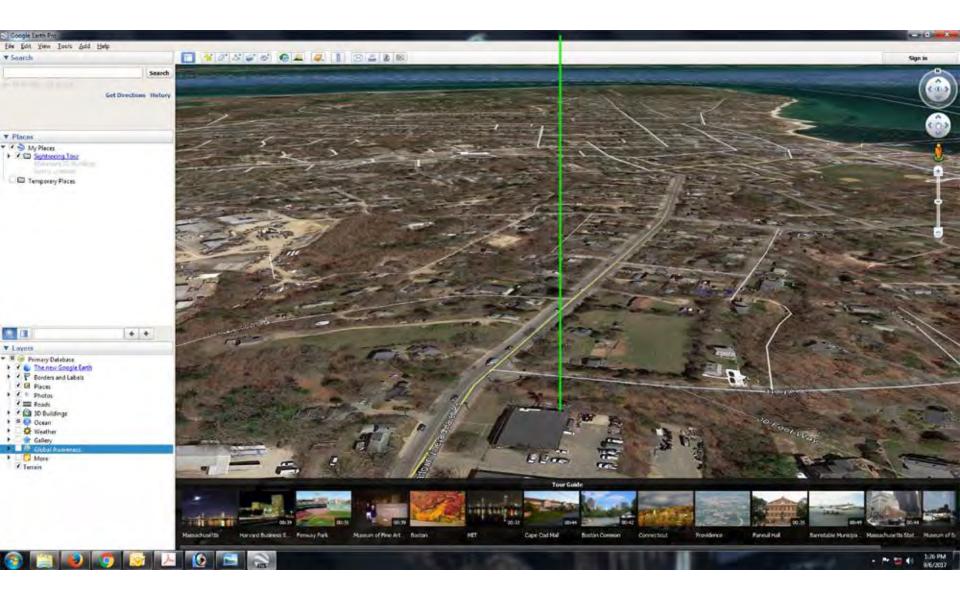
Full list of 12 FCC Registered Microwave Towers in Falmouth, MA



Note: Not all towers must be registered in the FCC database, so the above map may not list all the towers in the area.

FALMOUTH, Thomas B Landers Rd (Lat. 41.614528, Lon. -70.608639), Type: Tower, Structure height: 59.7 m, Call Sign: WLW638, Assigned Frequencies: 6093.45 MHz, 6063.80 MHz, 6004.50 MHz, 10583.1 MHz, 10593.1 MHz, 10587.5 MHz, Grant Date: 01/11/2011, Expiration Date: 02/01/2021, Cancellation Date: 02/25/2013, Registrant Verizon Wireless, 1120 Sanctuary Pkwy, #150 Gasa5reg, Alpharetta, GA 30009-7630, Phone: (770) 797-1070, Fax: (770) 797-1036, Email: licensingcompliance@verizonwireless.com

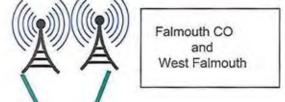
Find on map



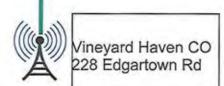


Martha's Vineyard – Massachusetts Proposal for Tower Height Increase

2016 towers was found not structurally sound to support the height increase – new location or hybrid tower solution is required.



6 & 11 GHz Radio Frequencies 10.96 Miles The trees that are in question sit on private property. External Affairs has approached the town to discuss the four trees at 3 separate locations to explained that the trees are interfering with the microwave path. The Town Administrator and the DPW Chief Tree Warden classified them as shade trees and will not allow them to be removed.

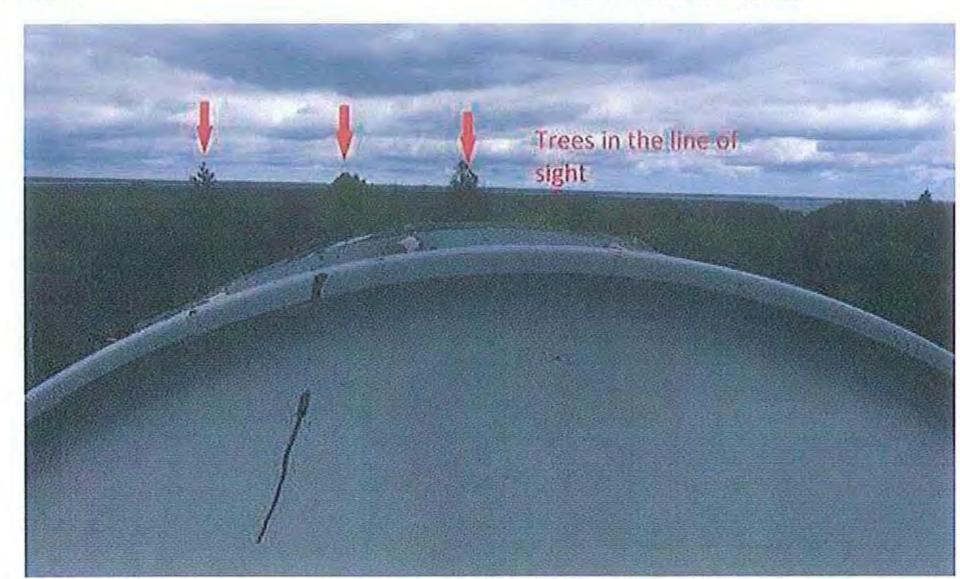


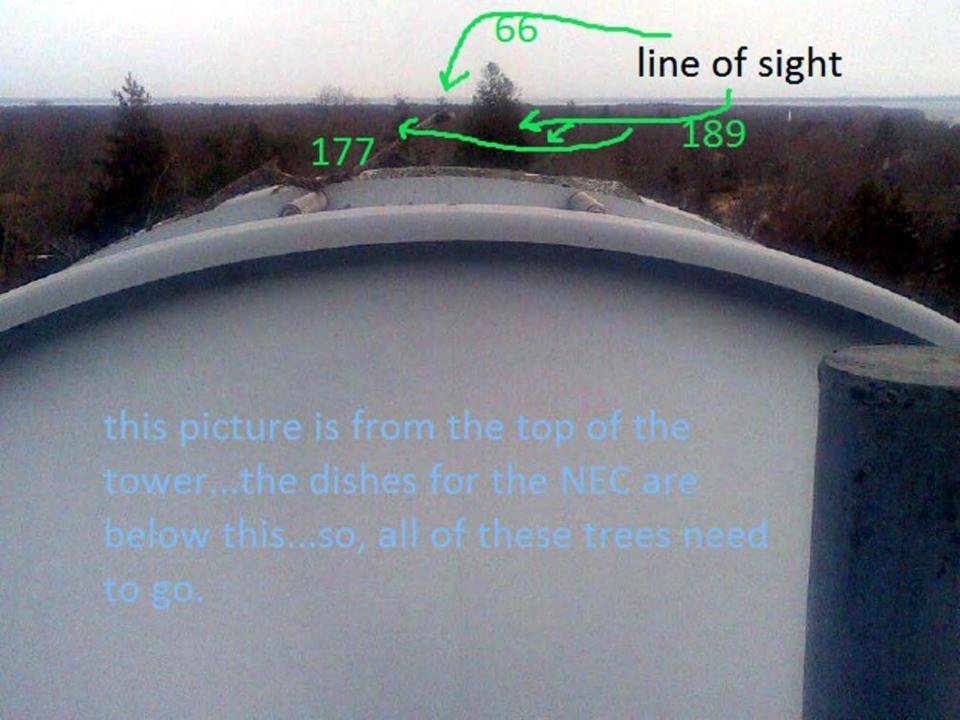


Applicant image of "Trees in the line of sight"

4/27/2017

Verizon Vineyard Haven Trees.jpg





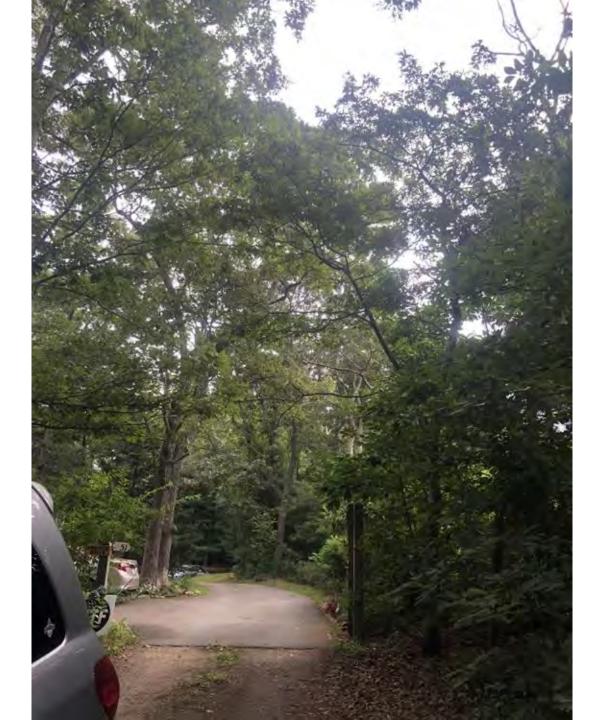








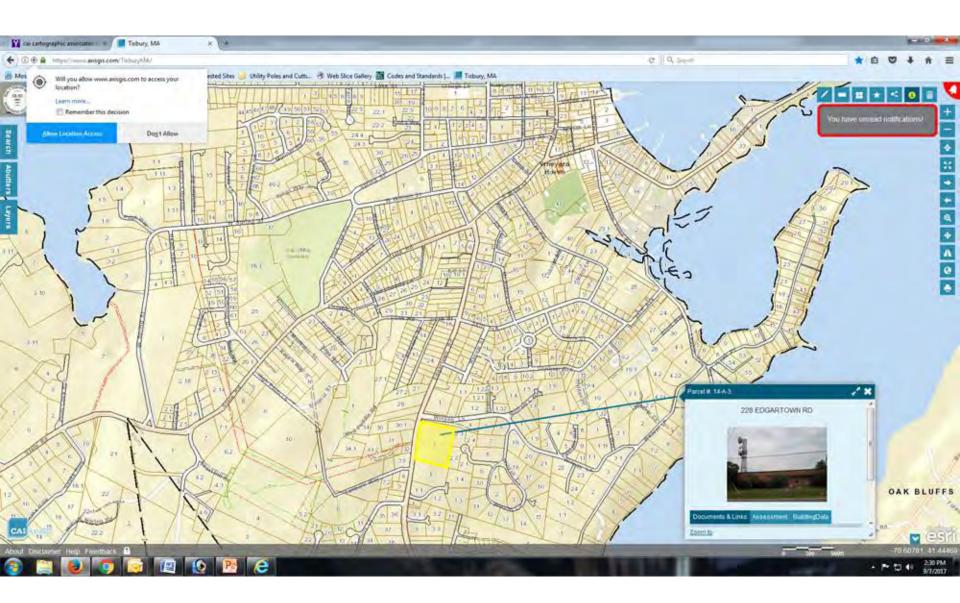




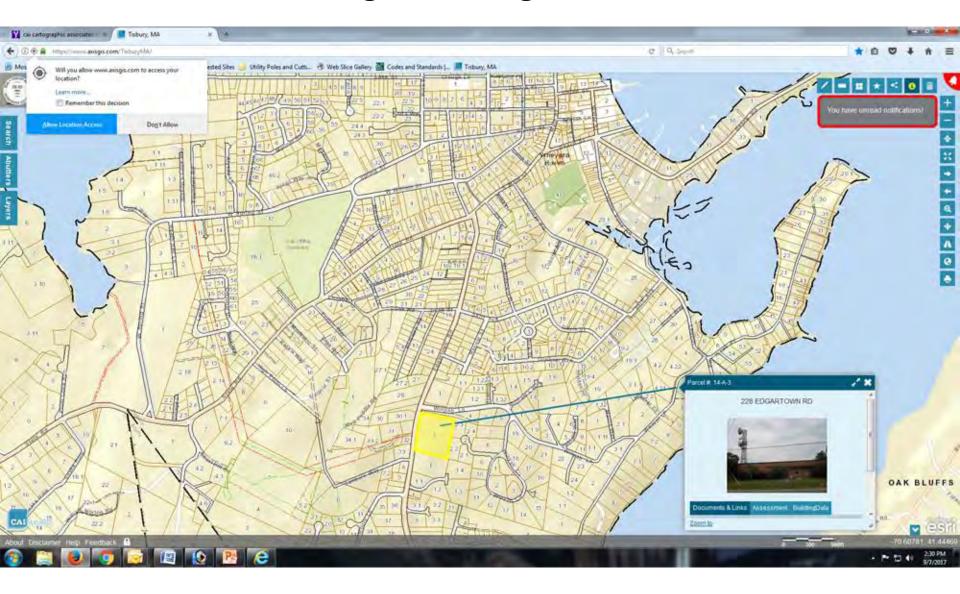




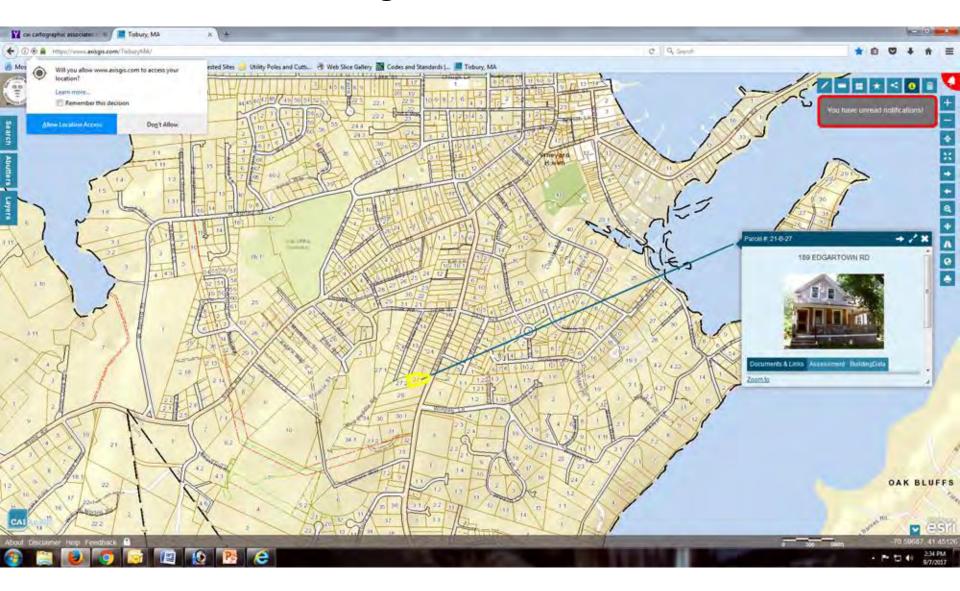




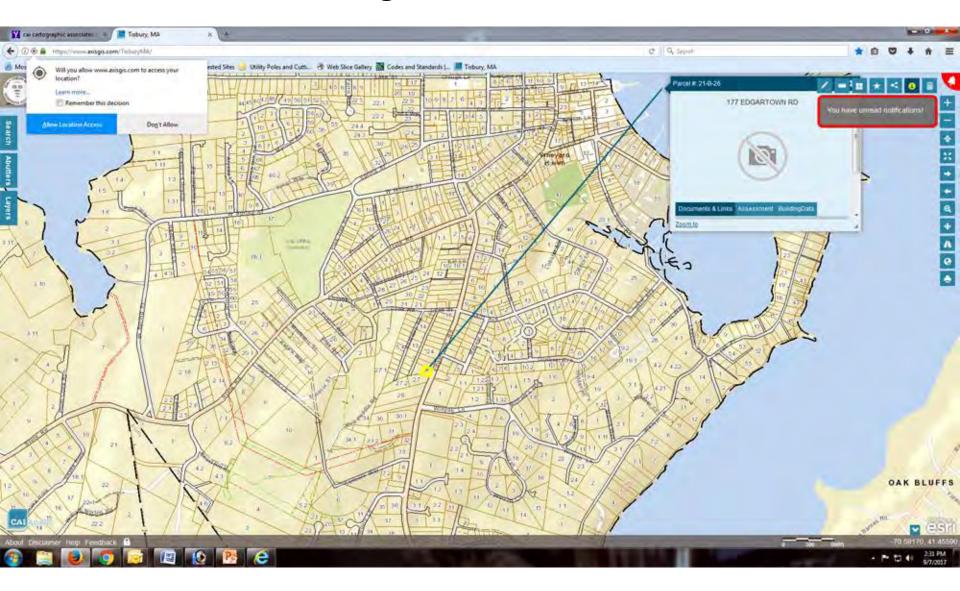
Verizon Building – 228 Edgartown – V.H. Road



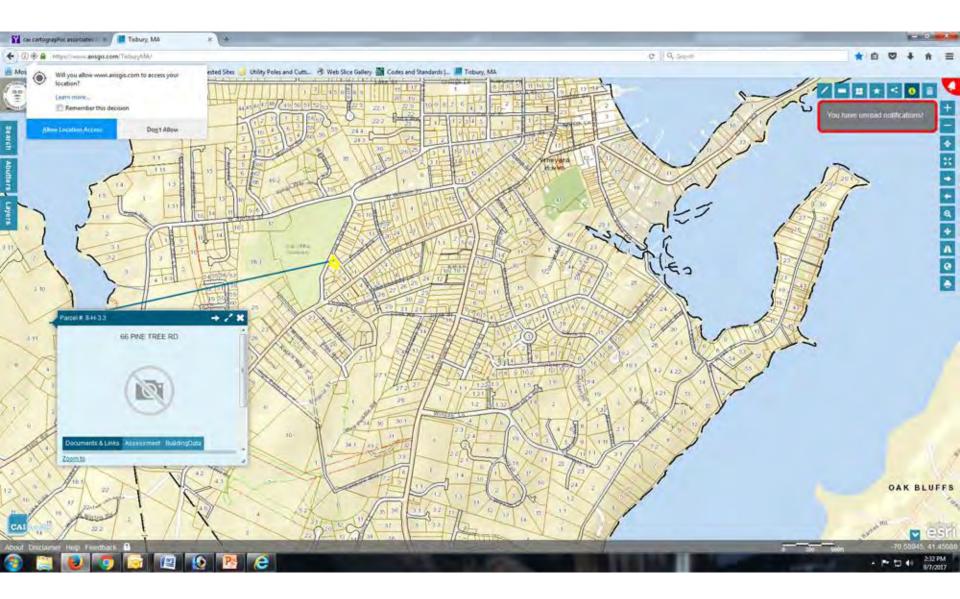
189 Edgartown – V.H. Road



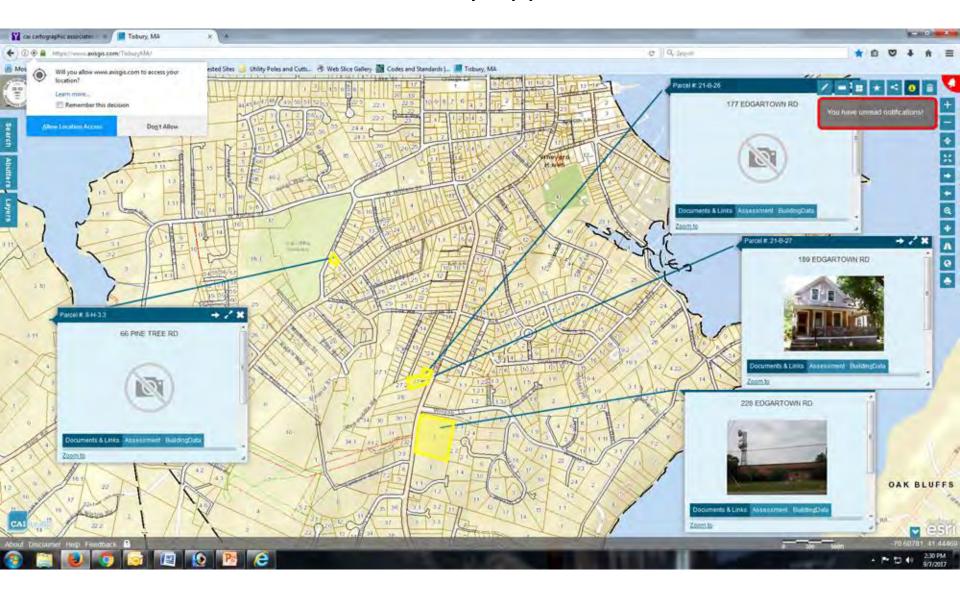
177 Edgartown – V.H. Road



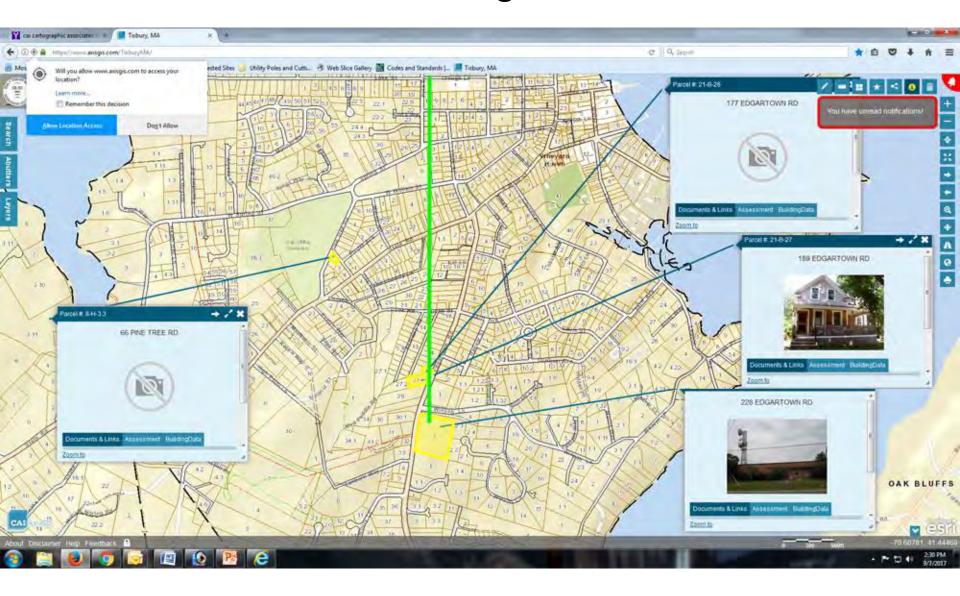
66 Pine Tree Road

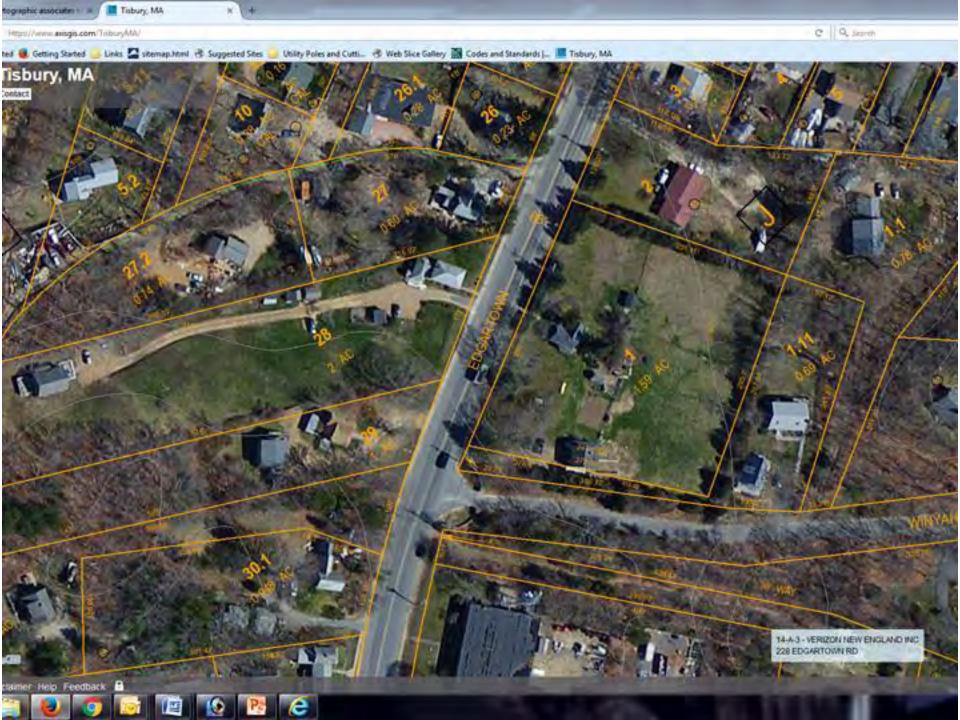


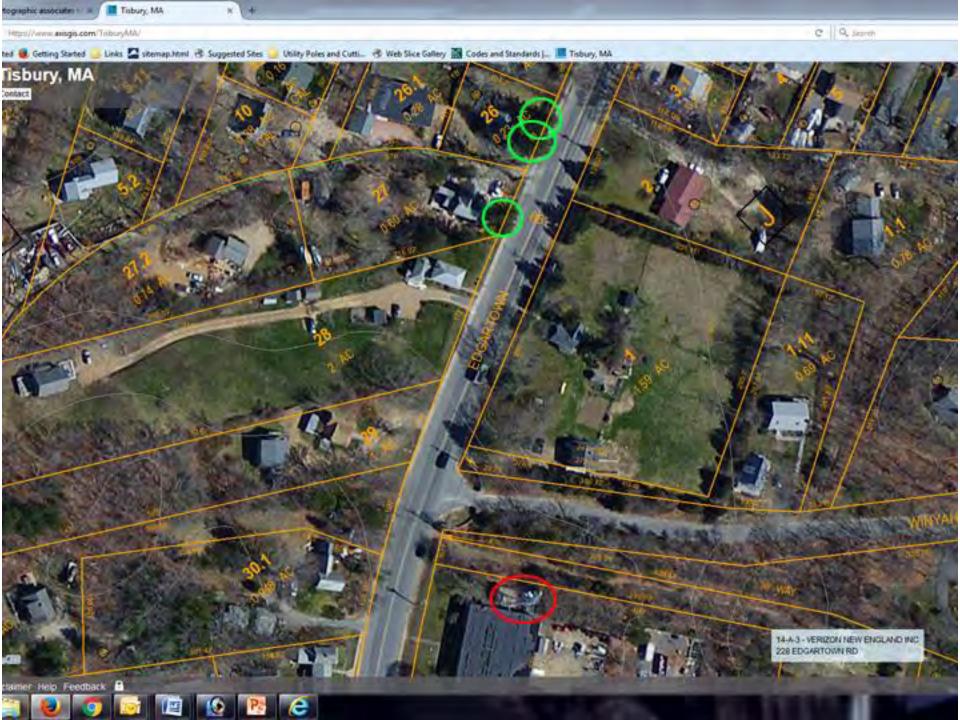
Verizon and address identified by Applicant with tree obstructions



Addresses with Line of Sight to Falmouth Tower









North on Edgartown - V.H. Road

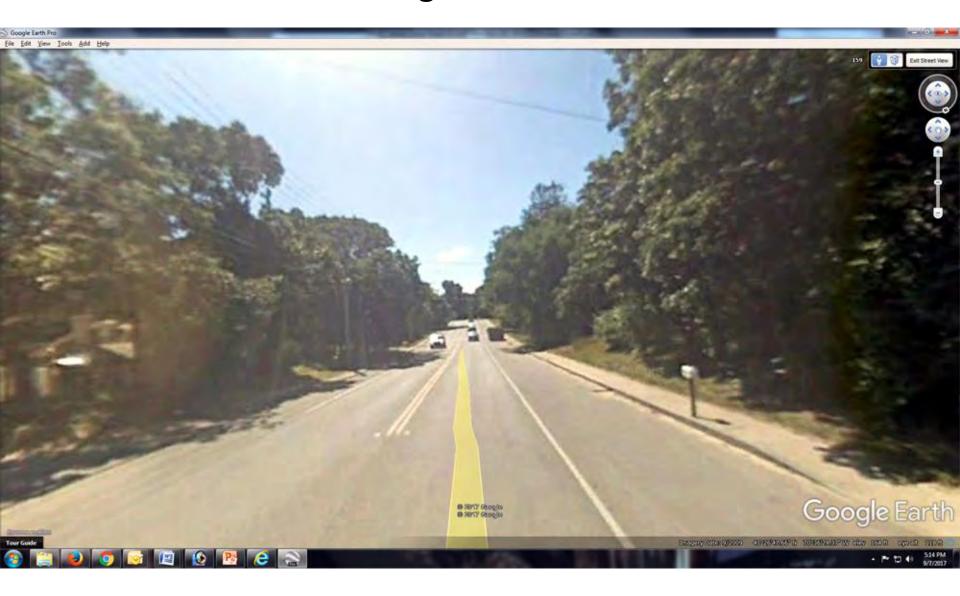


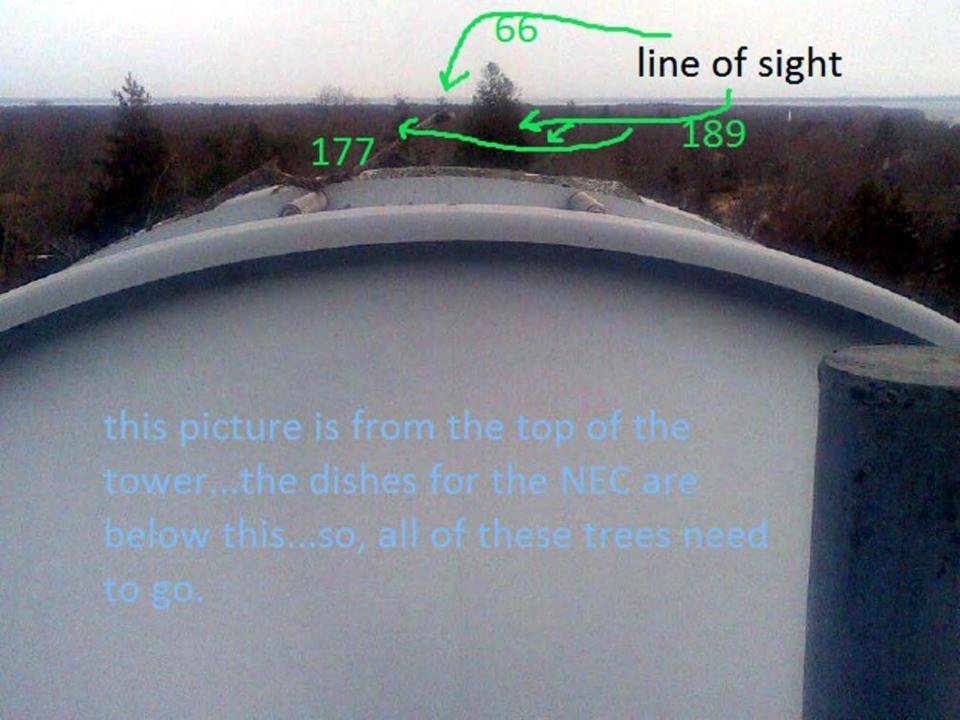


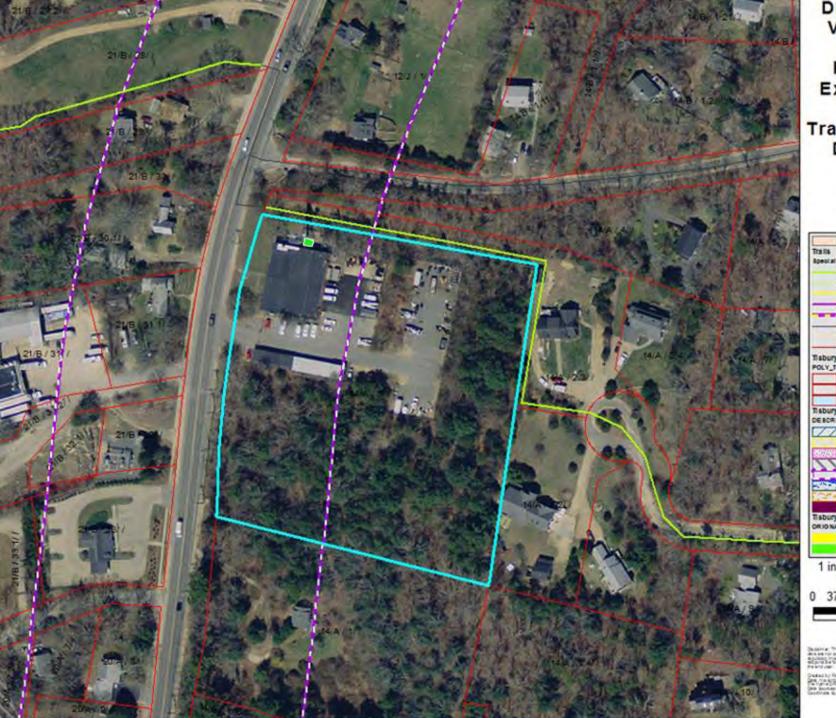
North on Edgartown - V.H. Road



South on Edgartown – V.H. Road



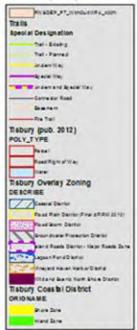




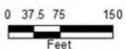
DRI # 677 Verizon Tower Height Extension

Trails, Wells DCPC's





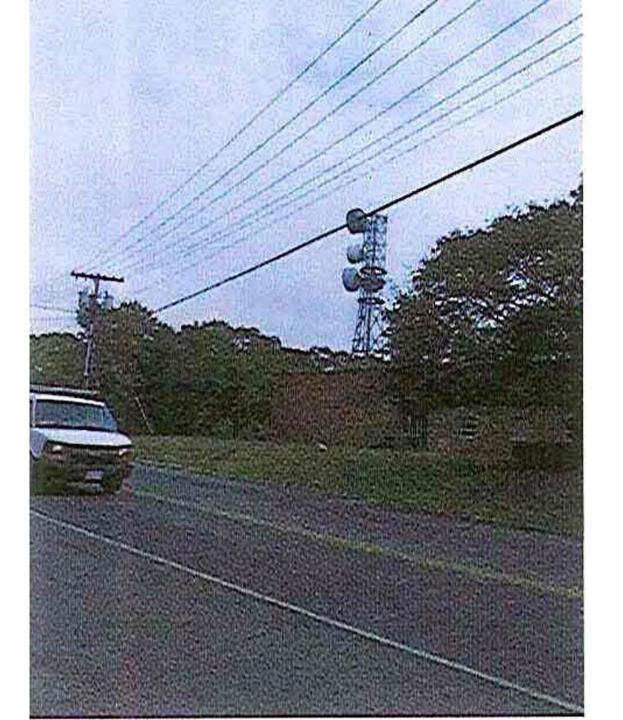
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Design of The regist for prompt purposes and the design of the control of the con

Description of the side

Date Services Contract Space Strangers (Secretarions Holida, House,



PROJECT SUMMARY

APPLICANT/LESSEE:

VERIZON

CONTRACTORS:

CONSTRUCTION: TBD.

CONSULTANTS:

STRUCTURAL COMPONENTS, LLC 1-866-386-7622 FOR ENGINEERING QUESTIONS CONTACT: WESLEY CULVER FOR CONSTRUCTION AND FIELD SERVICES QUESTIONS CONTACT: RYAN HUBERT FOR MATERIAL QUOTES AND FABRICATION QUESTIONS CONTACT: SCOTT STEKR

TOWER OWNER:

TURNING MILL CONSULTANTS, INC. 68 TUPPER ROAD, UNIT 3 PO BOX 1159 SANDWICH, MA 02563 CONTACT: MICHAEL JOYCE 508-888-4383

SHEET INDEX

ARCHITECTURAL:

T-1 TITLE SHEET GN-1 GENERAL CONSTRUCTION NOTES **GN-2 SPECIAL INSPECTIONS**

STRUCTURAL:

BOM-1 BILL OF MATERIALS BOM-2 BILL OF MATERIALS (CONT'D) **SPECIFICATIONS** S-1

DETAILS:

CONSTRUCTION SEQUENCE REINFORCEMENT DETAILS D-3 REINFORCEMENT DETAILS (CONTD) REINFORCEMENT DETAILS (CONTD) D-5 REINFORCEMENT DETAILS (CONTD) REINFORCEMENT DETAILS (CONT'D) REINFORCEMENT DETAILS (CONT'D) D-8 REINFORCEMENT DETAILS (CONT'D)

D-9 REINFORCEMENT DETAILS (CONT'D) D-10 TOWER EXTENSION DETAILS

D-11 TOWER EXTENSION DETAILS (CONT'D)

D-12 REINFORCEMENT DETAILS (CONT'D) D-13 REINFORCEMENT OBSTRUCTIONS

D-14 REINFORCEMENT OBSTRUCTIONS (CONT'D)

D-15 ANGLE-X SAFETY CLIMB DETAILS

D-16 TOWER EXTENSION SAFETY CLIMB DETAILS.

PRELIMINARY DRAWINGS FOR VINEYARD HAVEN, MA





SITE NAME:

VINEYARD HAVEN

SITE NUMBER:

ASR - 1006321

SITE ADDRESS:

228 EDGARTOWN ROAD VINEYARD HAVEN, MA 02568

VICINITY MAP



Al	PPROVALS	
DISCIPLINE	SIGNATURE	DATE
PRE CONSTRUCTION INSPECTION		
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CONSTRUCTION (AS-BUILT)		
LESSEE		
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PROJECT SUMMARY

APPLICANT/LESSEE:

VERIZON

CONTRACTORS:

CONSTRUCTION:

CONSULTANTS:

STRUCTURAL COMPONENTS, LLC

STRUCTURE CONTINUENT & GAS 1-866-385-7622 CENTROS CONTINUENT RESERVICES CONTINUENT FOR DOMINION OF RESISTANCES CONTINUENT RAWIN HUBBIT FOR MATERIA, QUOTES AND FARRICATION CLESTICAS, CONTINUE SCOTT STARS

TOWER OWNER:

TURMING MILL CONSULTANTS, INC. 68 TUPPER ROAD, UNIT 3 PO BOX 1159 SANDWICH, MA 02553 CONTACT: MICHAEL JOYCE

SHEET INDEX

ARCHITECTURAL:

T-1 TITLE SHEET GN-1 GENERAL CONSTRUCTION NOTES GN-2 SPECIAL INSPECTIONS

STRUCTURAL:

BOM-1 BILL OF MATERIALS BOM-2 BILL OF MATERIALS (CONTO) **SPECIFICATIONS**

DETAILS:

CONSTRUCTION SEQUENCE REINFORCEMENT DETAILS REINFORCEMENT DETAILS (CONTO) REINFORCEMENT DETAILS (CONTO)

REINFORCEMENT DETAILS CONT'D

REINFORCEMENT DETAILS (CONTD) REINFORCEMENT DETAILS (CONTD) REINFORCEMENT DETAILS (CONTD) REINFORCEMENT DETAILS (CONTD) TOWER EXTENSION DETAILS (CONT'D)

REINFORCEMENT DETAILS (CONTD) REINFORCEMENT OBSTRUCTIONS D-14 REINFORCEMENT OBSTRUCTIONS (CONTO)

D-15 ANGLEX SAFETY CLIMB DETAILS D-16 TOWER EXTENSION SAFETY CLIMB DETAILS

JURISDICTION

DUKES COUNTY, MA

TURNING MILL CONSULTANTS, INC.



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S.S.T. REINFORCEMENT

TITLE SHEET

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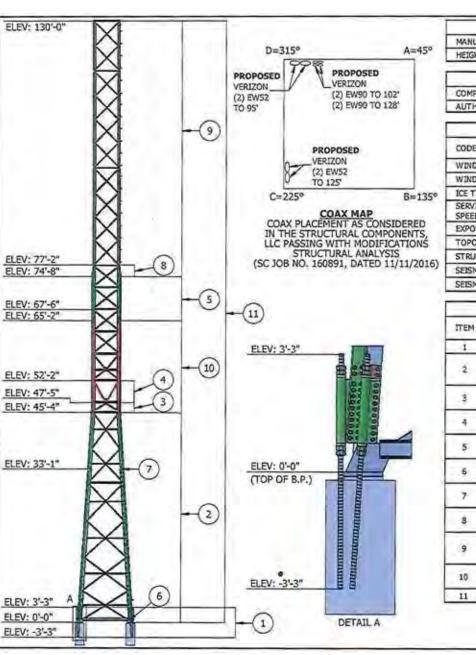
DRIVING DIRECTIONS

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDTIONS OF ALL GOVERNING CODES AS ADOPTED BY THE LCCAL COVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

SITE INFORMATION

LATITUDE: 41.4450°N LONGITUDE: 70,6084°W



TOWER SPECIFICATIONS					
MANUFACTURER	UNKNOWN				
HEIGHT / TOWER TYPE	77'-2" TOWER EXTENDED TO 130'-0" / (4) LEG S.S.T.				

C	URRENT STRUCTURAL ANALYSIS	
COMPANY	STRUCTURAL COMPONENTS, LLC	
AUTHOR / FILE # / DATE	WESLEY CULVER, P.E. / 160891 / 11-11-2016	

	DESIGN SPECIFICATIONS	
CODE	TIA-222-G (IBC 2009) DUKES COUNTY, MA MA AMENDMENTS TO IBC	
WIND SPEED (BARE)	120 MPH 3-SECOND GUST	
WIND SPEED (ICED)	40 MPH 3-SECOND GUST	
ICE THICKNESS	3/4" RADIAL	
SERVICEABILITY BASIC WIND SPEED	50 MPH 3-SECOND GUST	
EXPOSURE CATEGORY	C	
TOPOGRAPHIC CATEGORY	1	- 1
STRUCTURE CLASS	I	
SEISMIC SITE CLASS	D, S ₅ =0.179, S ₁ = 0.051	
SEISMIC DESIGN CATEGORY	В	

ITEM	DESCRIPTION	ELEVATION		BUILD NO	
TIEM	DESCRIPTION	BOTTOM	TOP	DWG. NO.	
1	INSTALL ANGLE-X ANCHOR RODS.	-3' - 3"	3' - 3"	D-2 & D-3	
2	INSTALL 5x5x1/2" ANGLE-X REINFORCEMENT.	0'-0-	45' - 4"	D-1, D-2, D-4, D-5, D-13, & D-14	
3	SWAP OUT THE EXISTING DIAGONALS WITH NEW 2x2x3/8" DIAGONALS.	45' - 4"	47"-5"	D-1 & D-6	
4	SWAP OUT THE EXISTING DIAGONALS WITH NEW 2-1/2x2-1/2x5/16" DIAGONALS.	47" - 5"	52' - 2"	D-1 & D-6	
5	INSTALL 5x5x1/2" ANGLE-X REINFORCEMENT.	65' - 2"	74" - 8"	D-1, D-7, D-13 & D-14	
6	REPLACE THE LEG SPLICE BOLTS AT THE BASE WITH NEW 5/8" A490 BOLTS.	0, -0,,	0, -0,	D-1 & D-8	
7	REPLACE THE LEG SPLICE BOLTS AT 33' - 1" WITH NEW 5/8" A32S BOLTS.	33'-1"	33' - 1"	D-1 & D-8	
8	FIELD CUT THE LEGS AT THE TOP OF THE TOWER.	74' - 8"	77' - 2"	D-1 & D-9	
9	DISTALL THE TOWER EXTENSION.	74' - 8"	130, - 0,,	D-1, D-10, D-11, D-13, & D-14	
10	INSTALL 5x5x1/2" ANGLE-X REINFORCEMENT.	45' - 4"	65' - 2"	D-1, D-12, D-13, & D-14	
11	INSTALL THE SAFETY CLIMB SYSTEM.	0,-0,	130' - 0"	D-15 & D-16	

SEE STRUCTURAL COMPONENTS, LLC PASSING WITH MODIFICATIONS STRUCTURAL ANALYSIS (SC JOB NO. 160891, DATED 11/11/2016) FOR TOWER LOADING DETAILS AND ANALYSIS ASSUMPTIONS.







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S.S.T. REINFORCEMENT	
S.S.T. REINFORCEMENT	

SPECIFICATIONS

S-1



CONSTRUCTION SEQUENCE

- AFTER THE TOWER EXTENSION HAS BEEN INSTALLED THE DISHES THAT WERE REMOVED WILL BE INSTALLED ON THE EXTENSION AT THEIR PROPOSED ELEVATIONS.
- ONCE ALL OF THE REINFORCEMENT HAS BEEN INSTALLED ON THE TOWER THE TWO DISHES THAT WERE REMOVED FROM THE RING MOUNTS MAY BE MOUNTED ON THE TOWER EXTENSION AT THEIR PROPOSED ELEVATIONS.
- THE TWO UPPER DISHES WILL HAVE TO BE TEMPORARILY REMOVED SO THE ANGLE-X REINFORCEMENT MAY BE INSTALLED.

- 4. ONCE ALL THE TOWER REINFORCEMENT (EXCEPT FOR THE ANGLE-X REINFORCEMENT FROM 45'-4" TO 65'-2") AND THE TOWER EXTENSION HAS BEEN INSTALLED THESE TWO DISHES AND RING MOUNTS ARE TO BE REMOVED SO THE ANGLE-X MAY BE INSTALLED FROM 45'-4" TO 65'-2".
- THE TWO DISHES ON THE RING MOUNTS WILL BE LEFT AS IS AND REMAIN ACTIVE UNTIL AFTER THE TOWER EXTENSION HAS BEEN INSTALLED.

NOTES:

- 1. FOLLOW THE ORDER INSTALLATION ON THE S-1 SHEET.
- ALL DISH RELOCATIONS ARE TO BE PERFORMED IN UNDER 6 WEEKS. IF ANY HURRICANES OR OTHER EXTREME WIND EVENTS ARE FORECASTED DISHES WILL NEED TO BE MOVED BACK TO THEIR ORIGINAL LOCATIONS.
- 3. FINAL DISH MOUNT DETAILS TO BE DETERMINED AT A LATER DATE.





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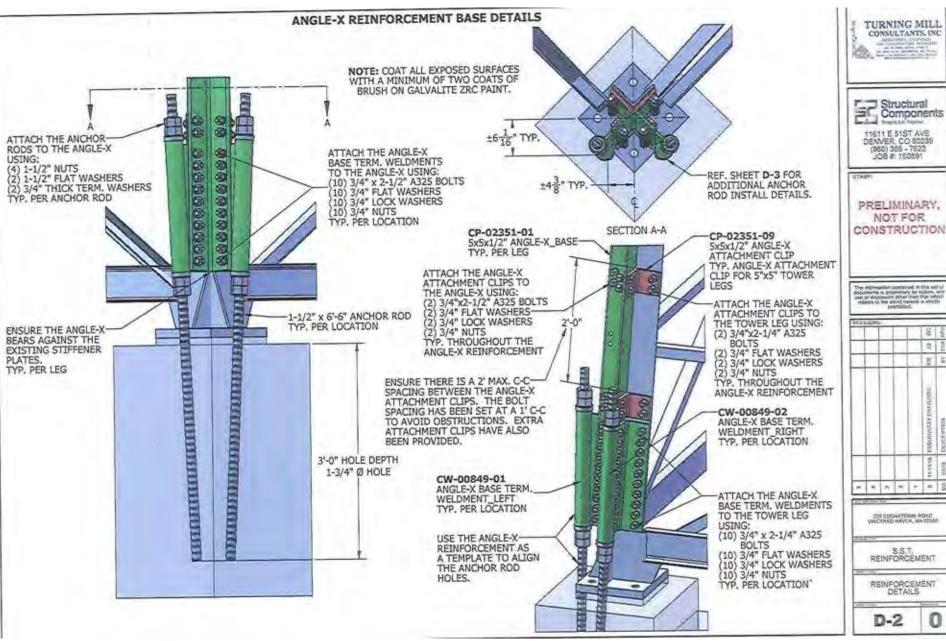
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S.S.T. REINFORCEMENT

CONSTRUCTION SEQUENCE

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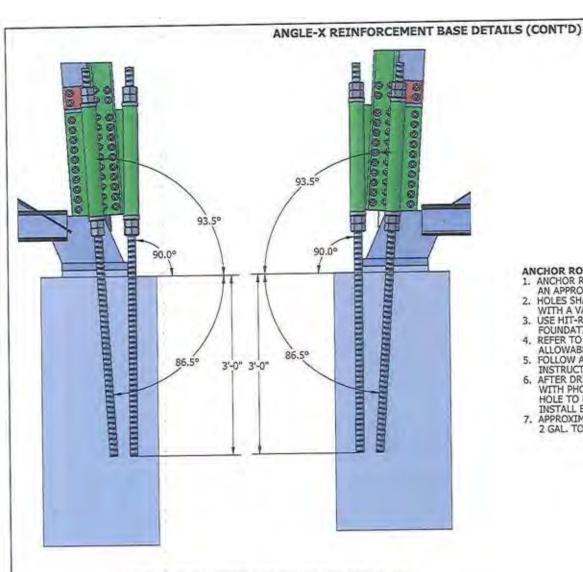
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S.S.T. REINFORCEMENT

REINFORCEMENT DETAILS



NOTE: THE ANGLE-X ANCHOR RODS FOLLOW THE TAPER OF THE TOWER LEG IN ONE DIRECTION. DO A MOCK FIT UP OF THE ANGLE-X TO CHECK THE ANCHOR ROD ALIGNMENT AND LOCATION.

ANCHOR ROD INSTALL NOTES:

- 1. ANCHOR ROD HOLES MAY BE DRILLED OR CORED. IF CORED, AN APPROVED ROUGHENING METHOD MUST BE USED.
- HOLES SHALL BE FREE OF DEBRIS AND MOISTURE; CLEAN HOLES WITH A VACUUM IF NECESSARY.
- 3. USE HIT-RE 500 V3 TO BOND THE ANCHOR RODS TO THE FOUNDATION.
- 4. REFER TO THE MANUFACTURES INSTRUCTIONS FOR ALLOWABLE INSTALLATION TEMPERATURE RANGE.
- 5. FOLLOW ALL MANUFACTURES PREPARATION AND INSTALLATION INSTRUCTIONS.
- AFTER DRILLING / CORING IS FINISHED COMPLETE TAPE DROPS WITH PHOTOS FOR EACH HOLE. INSTALL ANCHOR ROD INTO HOLE TO ENSURE THERE ARE NO OBSTRUCTIONS, REMOVE, INSTALL EPOXY AND REINSTALL ANCHOR ROD.
- APPROXIMATE EPOXY NEEDED = 1/4 GAL. PER ANCHOR ROD, 2 GAL TOTAL





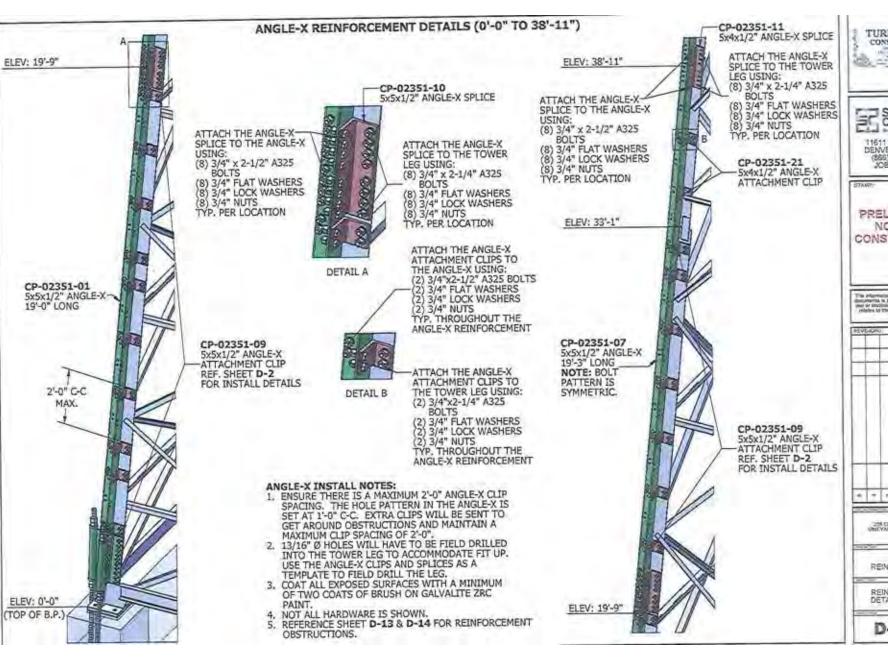
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S.S.T. REINFORCEMENT

REINFORCEMENT DETAILS (CONT'D)



TURNING MILL CONSULTANTS INC



11611 E 51ST AVE DENVER, CO 80239 (865) 388 - 7622 JOB #: 150891

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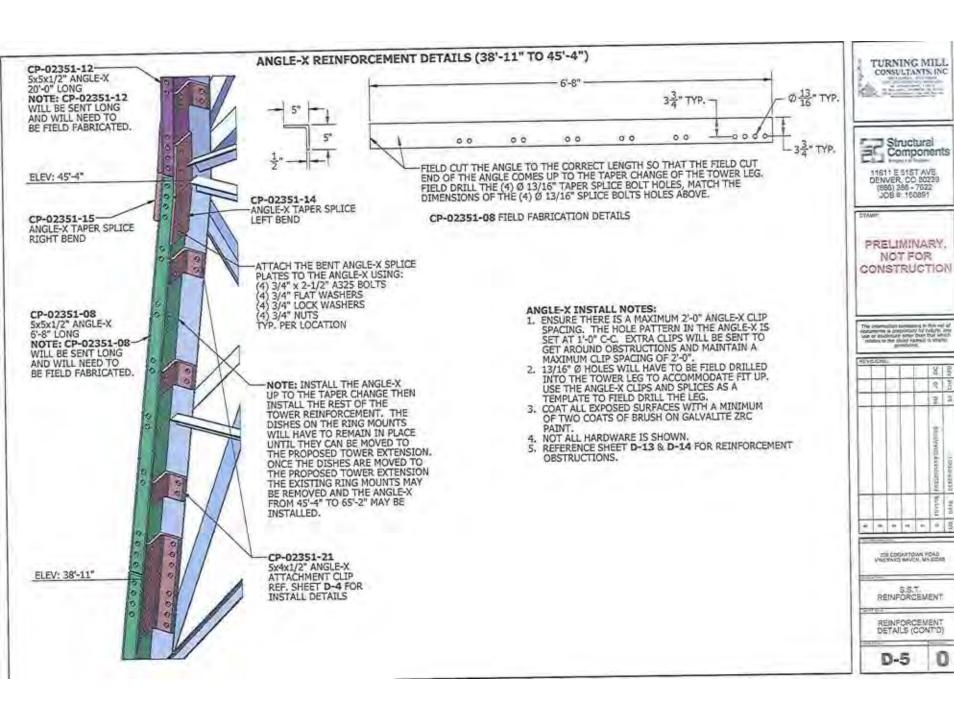


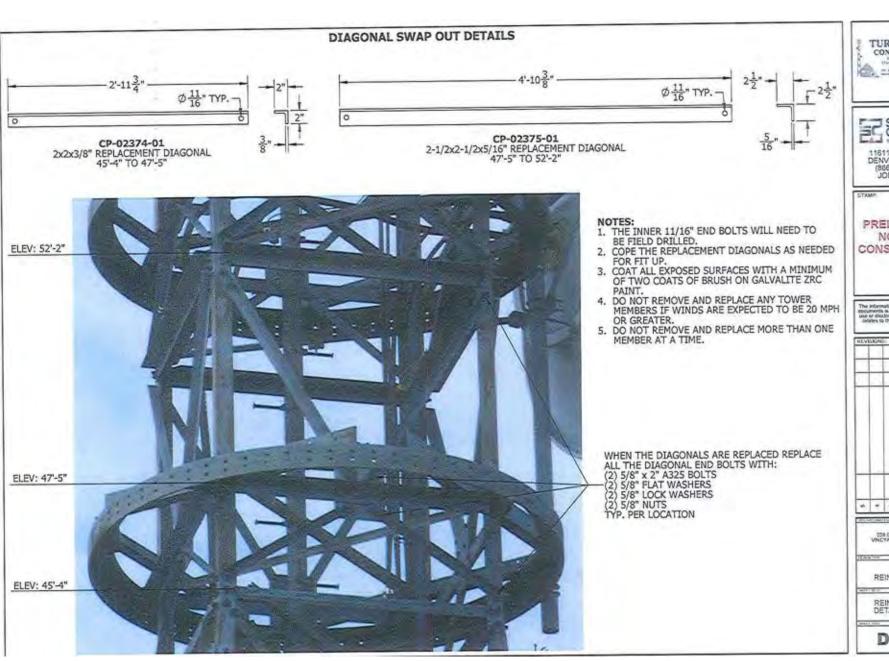
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S.S.T. REINFORCEMENT

REINFORCEMENT DETAILS (CONT'D)

D-4









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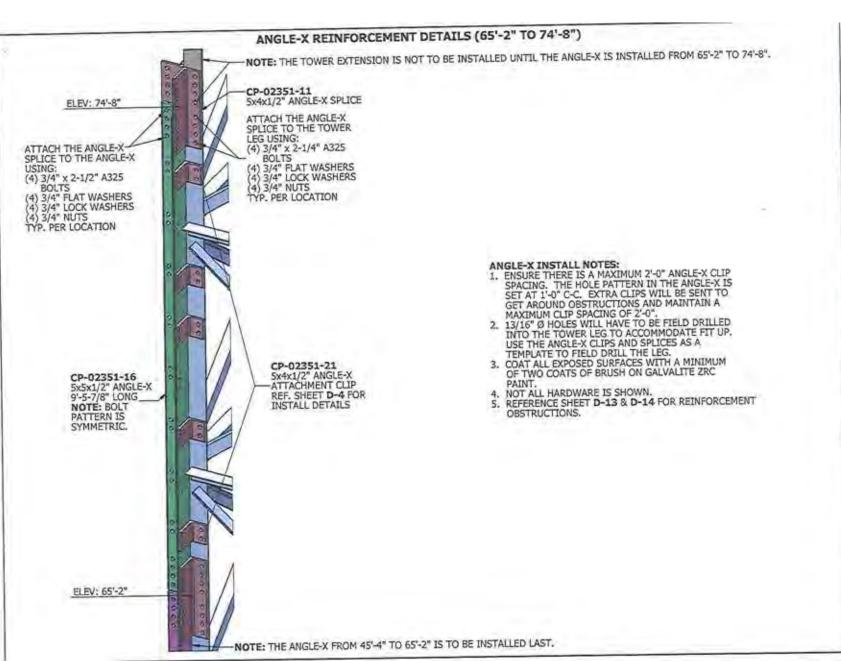
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S.S.T. REINFORCEMENT

REINFORCEMENT DETAILS (CONT'D)



TURNING MILL CONSULTANTS, INC Principle of the consultant of the c



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S.S.T. REINFORGEMENT

REINFORCEMENT DETAILS (CONTO)

D-7

LEG SPLICE BOLT REPLACEMENT DETAILS



THE EXISTING 5/8" BOLTS AT THE BASE SPLICE ARE TO BE REPLACED WITH NEW 5/8" A490 BOLTS. REPLACE THE EXISTING BASE LEG SPLICE BOLTS WITH:

(1) 5/8" x 2-1/4" A490 BOLT (1) 5/8" FLAT WASHER

(1) 5/8" LOCK WASHER (1) 5/8" NUT

TYP, PER LOCATION



SPLICE BOLT REPLACEMENT NOTES:

DO NOT REPLACE ANY TOWER SPLICE BOLTS IF WINDS ARE EXPECTED TO BE 20 MPH OR GREATER.

 ONLY REMOVE AND REPLACE ONE SPLICE BOLT AT A



THE EXISTING 5/8" BOLTS AT THE 33'-1" TOWER SPLICE ARE TO BE REPLACED WITH NEW 5/8" A325 BOLTS. REPLACE THE EXISTING BASE LEG SPLICE BOLTS WITH:

(1) 5/8" x 2-1/4" A325 BOLT (1) 5/8" FLAT WASHER

(1) 5/8" LOCK WASHER

(1) 5/8" NUT

TYP. PER LOCATION







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S.S.T. REINFORCEMENT

REINFORCEMENT DETAILS (CONT'D)

TOP OF TOWER FIELD CUT DETAILS



FIELD CUT THE TOWER LEGS AT THE APPROXIMATE MID PANEL.

1. ENSURE THE TOWER LEGS ARE CUT PERPENDICULAR TO THE HEEL EDGE OF THE ANGLE.
2. CUT THE SAME AMOUNT OF ANGLE OFF EACH LEG. THE TOP OF THE TOWER SHOULD BE LEVEL AFTER THE FIELD CUTS.
3. FLOAT THE TOP DISH UNTIL IT CAN BE RE-BOLTED TO THE TOWER EXTENSION.
4. THE UPPER END CONNECTION OF THE DIAGONALS WILL BE BOLTED TO THE PROPOSED TOWER EXTENSION. REMOVE THE UPPER DIAGONAL END BOLTS AND LEAVE THE DIAGONAL STITCH BOLTS IN PLACE.





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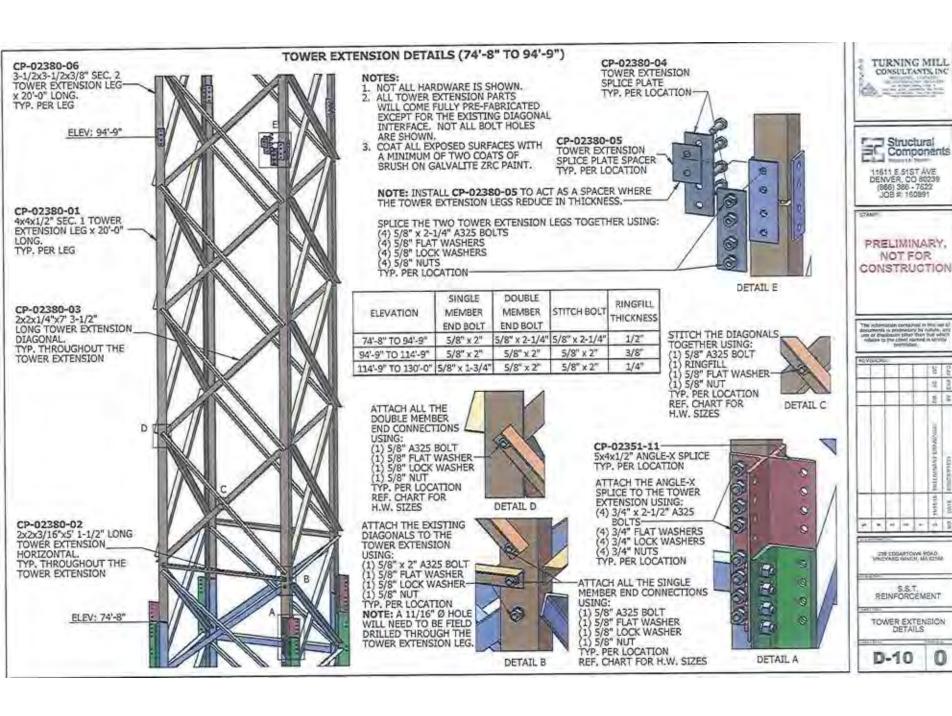
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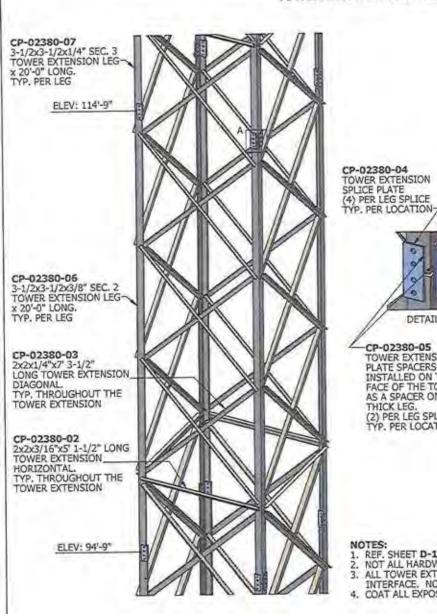
S.S.T. REINFORCEMENT

REINFORCEMENT DETAILS (CONT'D)





TOWER EXTENSION DETAILS (94'-9" TO 130'-0")



THE HORIZONTAL LEG OF A TOP HORIZONTAL AND RE-INSTALL THE EXISTING 5/8" Ø x 4' LIGHTNING ROD .-CP-02380-02

NOTE: FIELD DRILL A 11/16" Ø HOLE IN

2x2x3/16"x5' 1-1/2" LONG TOWER EXTENSION HORIZONTAL. TYP. THROUGHOUT THE TOWER EXTENSION-

ELEV: 130'-0"

CP-02380-03 2x2x1/4"x7" 3-1/2" LONG TOWER EXTENSION DIAGONAL.

TYP. THROUGHOUT THE TOWER EXTENSION-

CP-02380-07 3-1/2x3-1/2x1/4" SEC. 3 TOWER EXTENSION LEGx 15' 2-3/4" LONG. TYP. PER LEG

CP-02380-02 2x2x3/16"x5' 1-1/2" LONG TOWER EXTENSION HORIZONTAL.

TYP. THROUGHOUT THE TOWER EXTENSION

ELEV: 114'-9"



TURNING MILL

CONSULTANTS, INC.

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REINFORCEMENT

TOWER EXTENSION DETAILS (CONTO)

D-11

REF. SHEET D-10 FOR TOWER EXTENSION HARDWARE INSTALL DETAILS.

2. NOT ALL HARDWARE IS SHOWN.

DETAIL A

TOWER EXTENSION SPLICE

PLATE SPACERS ARE TO BE

INSTALLED ON THE INSIDE

AS A SPACER ON THE 1/4"

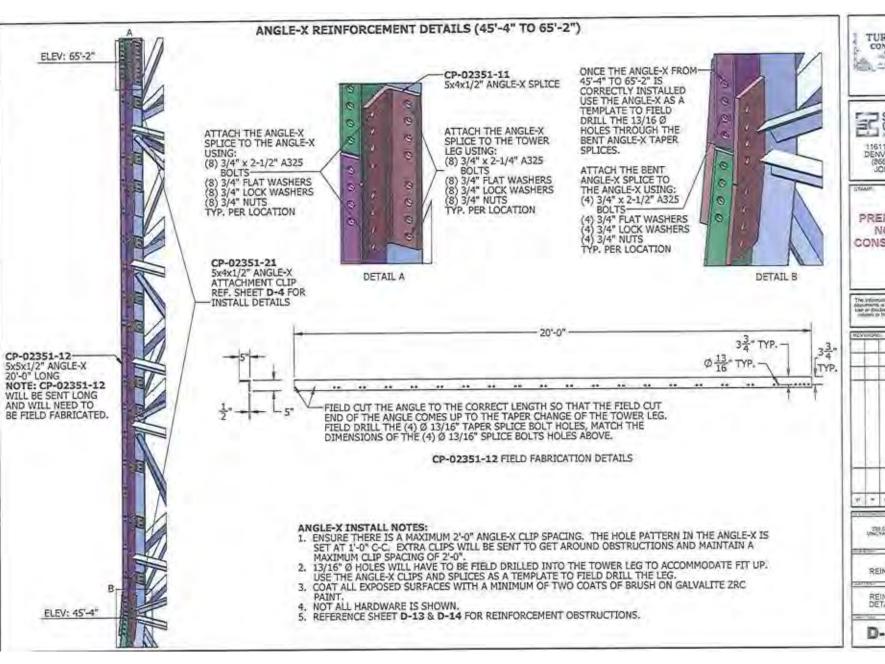
FACE OF THE TOWER TO ACT

CP-02380-05

THICK LEG. (2) PER LEG SPLICE TYP. PER LOCATION

3. ALL TOWER EXTENSION PARTS WILL COME FULLY PRE-FABRICATED EXCEPT FOR THE EXISTING DIAGONAL INTERFACE. NOT ALL BOLT HOLES ARE SHOWN,

4. COAT ALL EXPOSED SURFACES WITH A MINIMUM OF TWO COATS OF BRUSH ON GALVALITE ZRC PAINT.







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S.S.T. REINFORCEMENT

REINFORCEMENT DETAILS (CONTD)

THE SITE IS ONLY ACCESSIBLE BY FERRY. FREIGHT VEHICLES WILL HAVE TO TRAVEL VIA FERRY TO DELIVER MATERIAL.



OVERHEAD POWERLINES ALONG THE ROADWAY WILL LIMIT CRANE AND HOISTING ACCESS.



REINFORCEMENT OBSTRUCTIONS

THE EXISTING SOLID ROD LEG REINFORCEMENT FROM 0' TO 44' ON ALL (4) TOWER LEGS WILL NEED TO BE REMOVED PRIOR TO INSTALLING THE PROPOSED ANGLE-X REINFORCEMENT. THE EXISTING SOLID ROD REINFORCEMENT IS ATTACHED TO THE TOWER LEGS WITH 5/8" BOLTS.



NOTE: NEW STEP PEGS AND SAFETY CLIMB WILL BE INSTALLED. REF. SHEET D-17 & D-18 FOR SAFETY CLIMB INSTALL DETAILS.

THE EXISTING SAFETY CLIMB AND STEP PEGS FROM 0' TO 33' ON LEG D WILL NEED TO BE REMOVED PRIOR TO INSTALLING THE ANGLE-X REINFORCEMENT.—







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228 EDGARTOWN POAD VINEYARD HAVEN, MA 02568

S.S.T. REINFORCEMENT

REINFORCEMENT OBSTRUCTIONS

D-13

REINFORCEMENT OBSTRUCTIONS (CONT'D)



EXISTING SAFETY CLIMB TOP TERMINATION AT 33'-TO BE REMOVED PRIOR TO ANGLE-X INSTALLATION.



EXISTING SAFETY CLIMB BASE TERMINATION—
TO BE REMOVED PRIOR TO ANGLE-X INSTALLATION.

BOLT ON STEP PEGS FROM 0' TO 33' TO BE REMOVED PRIOR TO ANGLE-X INSTALLATION.

BOLT ON SOLID ROD REINFORCEMENT FROM 0' TO 44' TO BE REMOVED PRIOR TO ANGLE-X INSTALLATION.



THE (3) DISHES AND MOUNTS FROM 55' TO 65' ARE TO REMAIN ACTIVE DURING CONSTRUCTION.

THE ANGLE-X FROM 45'-4" TO 65'-2" IS TO BE INSTALLED LAST SO THESE DISHES CAN REMAIN ACTIVE. ONCE ALL OF THE REINFORCEMENTS AND TOWER EXTENSION HAVE BEEN INSTALLED RE-LOCATE THESE (3) DISHES AND MOUNTS TO THE TOWER EXTENSION. AFTER THESE DISHES AND MOUNTS HAVE BEEN RE-LOCATED TO THE TOWER EXTENSION THE ANGLE-X FROM 45'-4" TO 65'-2" IS TO BE INSTALLED.

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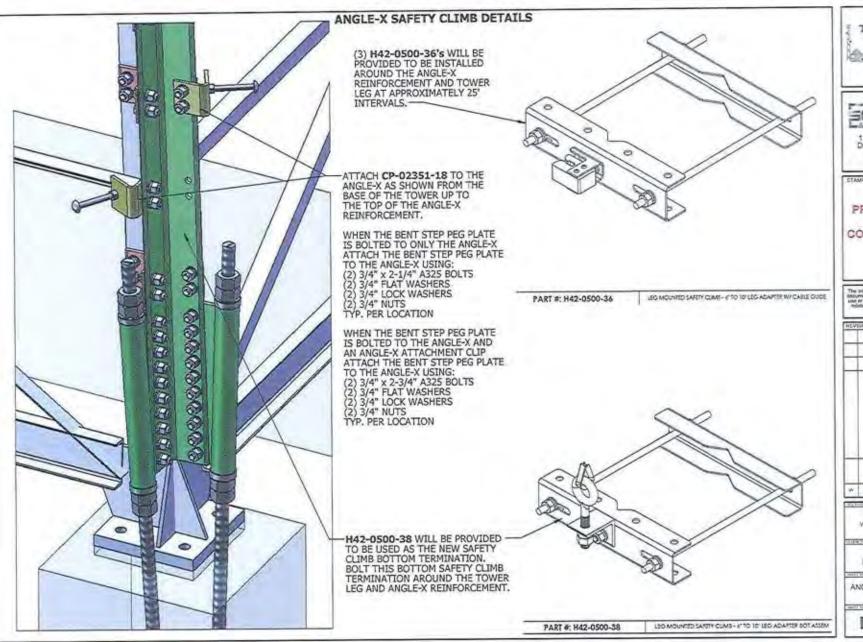
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S.S.T. REINFORCEMENT

REINFORCEMENT OBSTRUCTIONS (CONT'D)

D-14



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REINFORCEMENT

ANGLE-X SAFETY CLIMB DETAILS

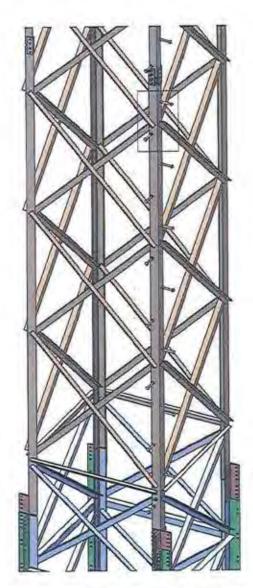
TOWER EXTENSION SAFETY CLIMB DETAILS

(2) H42-0500-35's WILL BE PROVIDED TO BE INSTALLED

LEG AT APPROXIMATELY 25'

INTERVALS.

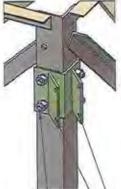
AROUND THE TOWER EXTENSION



TOWER EXTENSION.

INSTALL THE PROVIDED 5/8" STEP BOLTS UP THE





BOLT CA-00531-01
THROUGH THE ANGLE LEG USING:
(4) 5/8" x 1-3/4" A325 BOLTS
(4) 5/8" FLAT WASHERS
(4) 5/8" LOCK WASHERS
(4) 1/2" NUTS
NOTE: INSTALL THE FLAT WASHERS
BETWEEN THE TO ANGLES TO ACT AS A RINGFILL.

NOTE: THE SAFETY CLIMB TOP TERMINATION—WILL BOLT TO THESE PLATES. FOLLOW THE MANUFACTURES INSTALLATION INSTRUCTIONS.

PART #: H42-0500-35

LOG MOUNTED CAPETY CLINE - TYTS & LOG ADAPTER W/ CASLE QUOS

NOTE: NOT ALL HARDWARE IS SHOWN.





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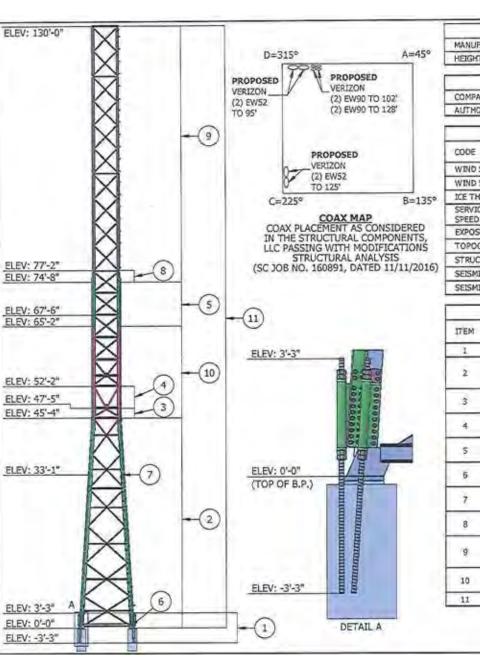
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S.S.T. REINFORCEMENT

TOWER EXTENSION SAFETY CLIMB DETAILS

D-16



TOWER SPECIFICATIONS			
MANUFACTURER	UNKNOWN		
HEIGHT / TOWER TYPE	77'-2" TOWER EXTENDED TO 130'-0" / (4) LEG S.S.T.		

CI	JRRENT STRUCTURAL ANALYSIS	
COMPANY	STRUCTURAL COMPONENTS, LLC	
AUTHOR / FILE # / DATE	WESLEY CULVER, P.E. / 160891 / 11-11-2016	

DESIGN SPECIFICATIONS				
CODE	TIA-222-G (IBC 2009) DUKES COUNTY, MA MA AMENDMENTS TO IBC			
WIND SPEED (BARE)	120 MPH 3-SECOND GUST			
WIND SPEED (ICED)	40 MPH 3-SECOND GUST			
ICE THICKNESS	3/4" RADIAL			
SERVICEABILITY BASIC WIND SPEED	50 MPH 3-SECOND GUST			
EXPOSURE CATEGORY	C			
TOPOGRAPHIC CATEGORY	1			
STRUCTURE CLASS	II .			
SEISMIC SITE CLASS	D, S ₅ =0.179, S ₁ = 0.051			
SEISMIC DESIGN CATEGORY	В			

IT'EM	DESCRIPTION	ELEVATION		DWG. NO.
		BOTTOM	TOP	DWG, NO.
1	INSTALL ANGLE-X ANCHOR RODS.	-3' - 3"	3' - 3"	D-2 & D-3
2	INSTALL 5x5x1/2" ANGLE-X REINFORCEMENT,	0" - 0"	45' ~ 4"	D-1, D-2, D-4, D-5, D-13, & D-14
3	SWAP OUT THE EXISTING DIAGONALS WITH NEW 2x2x3/8" DIAGONALS.	45' - 4"	47" - 5"	D-1 & D-6
4	SWAP OUT THE EXISTING DIAGONALS WITH NEW 2-1/2x2-1/2x5/16" DIAGONALS.	47" - 5"	52' - 2"	D-1 & D-6
5	INSTALL 5x5x1/2" ANGLE-X REINFORCEMENT.	65' - 2"	74" - 8"	D-1, D-7, D-13 & D-14
5	REPLACE THE LEG SPLICE BOLTS AT THE BASE WITH NEW 5/8" A490 BOLTS.	0'-0"	0'-0"	D-1 & D-8
7	REPLACE THE LEG SPLICE BOLTS AT 33' - 1" WITH NEW 5/8" A325 BOLTS.	33'-1"	33' - 1"	D-1 & D-8
8	FIELD OUT THE LEGS AT THE TOP OF THE TOWER.	74' - 8"	77" - 2"	D-1 & D-9
9	INSTAUL THE TOWER EXTENSION.	74'-8"	130' - 0"	0-1, D-10, D-11, D-13, & D-14
10	INSTALL Sx5x1/2" ANGLE-X REINFORCEMENT.	45' - 4"	65" - 2"	D-1, D-12, D-13, & D-14
11	INSTALL THE SAFETY CLIMS SYSTEM.	0'-0"	130" - 0"	D-15 & D-16

SEE STRUCTURAL COMPONENTS, LLC PASSING WITH MODIFICATIONS STRUCTURAL ANALYSIS (SC JOB NO. 160891, DATED 11/11/2016) FOR TOWER LOADING DETAILS AND ANALYSIS ASSUMPTIONS.





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S.S.T. REINFORCEMENT

SPECIFICATIONS

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