

**STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL**

IN RE:	:	
	:	DOCKET NO. 504
ARX WIRELESS INFRASTRUCTURE, LLC	:	
APPLICATION FOR A CERTIFICATE OF	:	
ENVIRONMENTAL COMPATIBILITY AND	:	
PUBLIC NEED FOR THE	:	
CONSTRUCTION, MAINTENANCE AND	:	
OPERATION OF A WIRELESS	:	
TELECOMMUNICATIONS FACILITY	:	
LOCATED AT LOT 4-N, SEQUIN DRIVE,	:	AUGUST 12, 2021
GLASTONBURY, CONNECTICUT	:	

**ARX WIRELESS INFRASTRUCTURE LLC'S
REVISED EXHIBITS G AND H TO THE APPLICATION**

Arx Wireless Infrastructure LLC ("ARX") hereby submits the following revised exhibits:

- 1) Revised Exhibit G to the Application containing the updated site plans revised as of August 5, 2021.
- 2) Revised Exhibit H to the Application containing the an updated viewshed analysis package.

RESPECTFULLY SUBMITTED,

ARX WIRELESS INFRASTRUCTURE, LLC,

By: 

David A. Ball, Esq.
Philip C. Pires, Esq.
Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT 06604
Tel. No. (203) 368-0211
E-Mail: dball@cohenandwolf.com
E-Mail: ppires@cohenandwolf.com
Juris No. 010032

CERTIFICATION OF SERVICE

I hereby certify that a copy of the foregoing was sent via electronic mail on this 12th day of August, 2021, to the following:

Kristen Motel
Lucia Chiocchio
Cuddy & Feder LLP
445 Hamilton Avenue, 14th Floor
White Plains, NY 10601
Tel: (914) 761-1300
E-mail: kmotel@cuddyfeder.com
lchiocchio@cuddyfeder.com



Philip C. Pires, Esq.

PROJECT SUMMARY

SCOPE OF WORK: ARX WIRELESS IS PROPOSING TO INSTALL THE FOLLOWING IMPROVEMENTS:
 115 FOOT TOWER AND FOUNDATION
 TOWER APPROXIMATELY 6500' FROM CLOSEST TOWN LINE
 50'x50' FENCED COMPOUND
 12' ACCESS DRIVE
 POWER AND TELCO UTILITIES
 AT&T EQUIPMENT CABINETS WITH GENERATOR ON 13'x8' CONCRETE PAD, SIX (6) AT&T ANTENNAS, AND TWELVE (12) RRHS WITH ASSOCIATED CABLING AND APPURTENANCES.

SITE ADDRESS: LOT N-4 SEQUIN DRIVE
 GLASTONBURY, CT 06033

LATITUDE: N41° 42' 51.27"
 LONGITUDE: W72° 34' 54.32"

PROPERTY OWNER: NEW LAND OF GLASTONBURY LLC
 734 HEBRON AVENUE
 GLASTONBURY, CT 06033

MAP/LOT/BLOCK: F5-6200-N0004

POWER COMPANY: EVERSOURCE

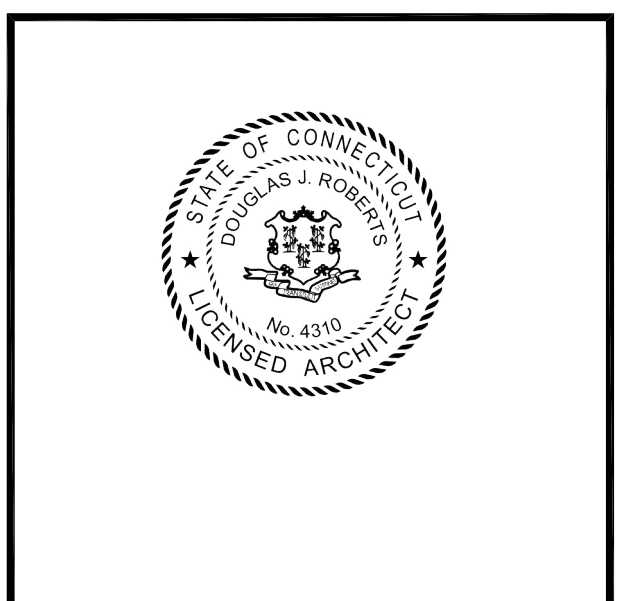
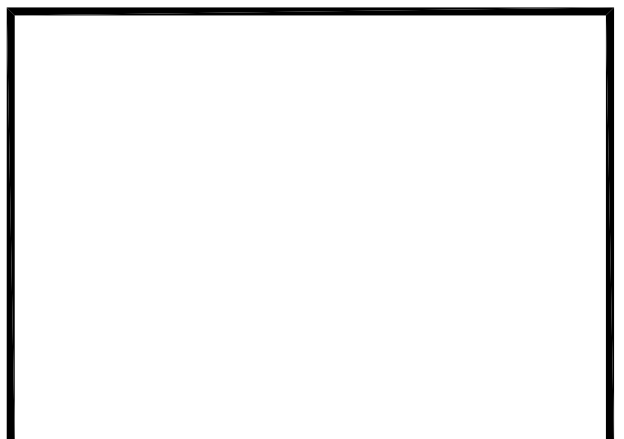
TELEPHONE COMPANY: FRONTIER COMMUNICATIONS

TOWER OWNER/APPLICANT: ARX WIRELESS INFRASTRUCTURE, LLC.
 KEITH COPPINS
 (203) 623-3287
 110 WASHINGTON AVENUE
 NORTH HAVEN, CT 06473



CONNECTICUT SITING COUNCIL DOCKET
SITE NUMBER: CT0114A
SITE NAME: GLASTONBURY

CONNECTICUT SITING COUNCIL DOCKET



CHECKED BY: DJR

APPROVED BY: DJR

DRAWING INDEX

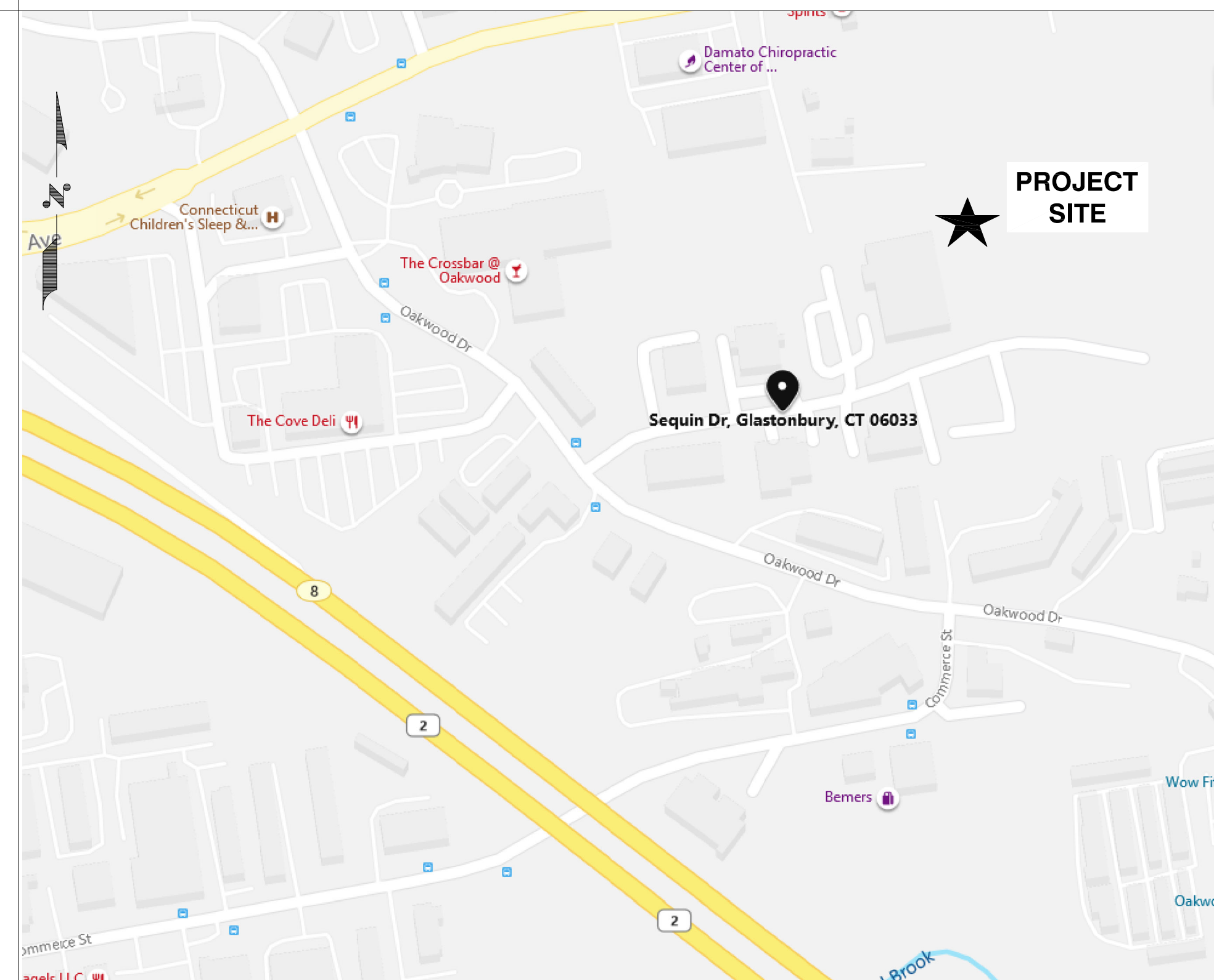
REV

VICINITY MAP

GENERAL NOTES

- T-1 TITLE SHEET
- SURVEY
- C-1 SITE PLAN
- C-2 COMPOUND PLAN AND ELEVATION
- C-3 SITE DETAILS

- 1
- 1
- 1
- 1



1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF ARX WIRELESS. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
2. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
0	08/05/2021	ISSUED FOR REVIEW	KAM

SITE NAME:

CT0114A
 GLASTONBURY

SITE ADDRESS:

LOT N-4 SEQUIN DRIVE
 GLASTONBURY, CT 06033

SHEET TITLE

SITE PLAN

SHEET NUMBER

T-1



AECOM

500 ENTERPRISE DRIVE
ROCKY HILL, CONNECTICUT
(860)-529-8882



CHECKED BY: DJR

APPROVED BY: DJR

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
0	08/05/2021	ISSUED FOR REVIEW	KAM

SITE NAME:

CT0114A
GLASTONBURY

SITE ADDRESS:
LOT N-4 SEQUIN DRIVE
GLASTONBURY, CT 06033

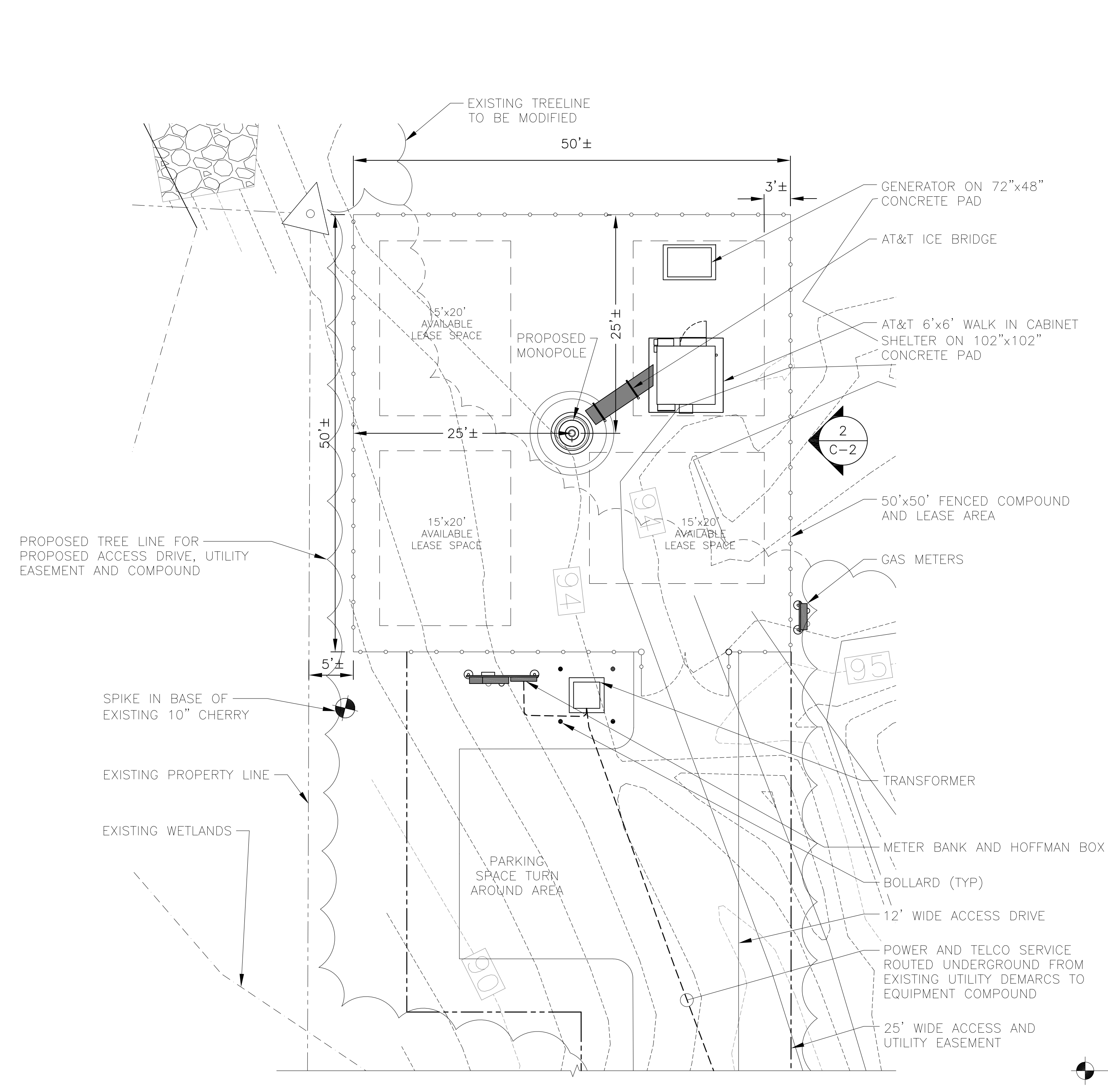
SHEET TITLE

COMPOUND PLAN
AND ELEVATION

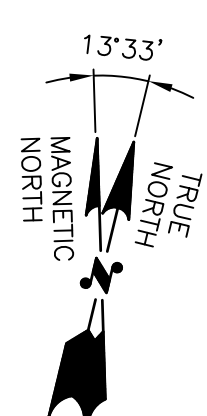
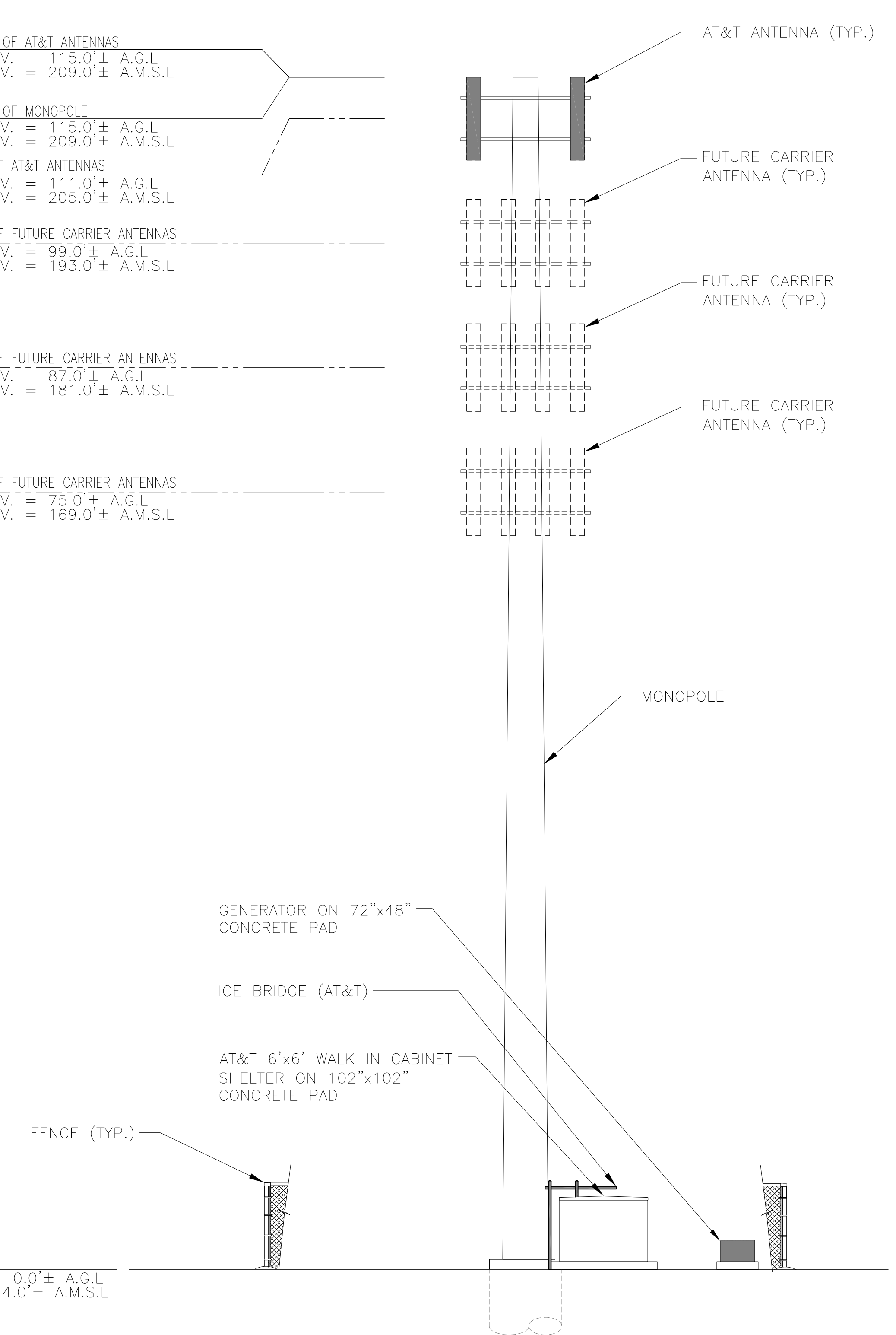
SHEET NUMBER

C-2

CONNECTICUT SITING COUNCIL DOCKET

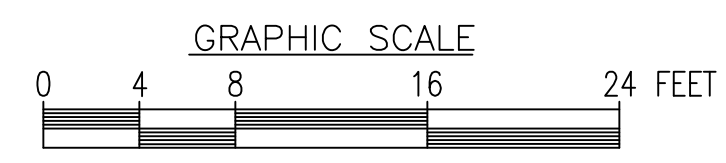


- TOP OF AT&T ANTENNAS
ELEV. = 115.0'± A.G.L.
ELEV. = 209.0'± A.M.S.L.
- TOP OF MONOPOLE
ELEV. = 115.0'± A.G.L.
ELEV. = 209.0'± A.M.S.L.
- Q OF AT&T ANTENNAS
ELEV. = 111.0'± A.G.L.
ELEV. = 205.0'± A.M.S.L.
- Q OF FUTURE CARRIER ANTENNAS
ELEV. = 99.0'± A.G.L.
ELEV. = 193.0'± A.M.S.L.
- Q OF FUTURE CARRIER ANTENNAS
ELEV. = 87.0'± A.G.L.
ELEV. = 181.0'± A.M.S.L.
- Q OF FUTURE CARRIER ANTENNAS
ELEV. = 75.0'± A.G.L.
ELEV. = 169.0'± A.M.S.L.



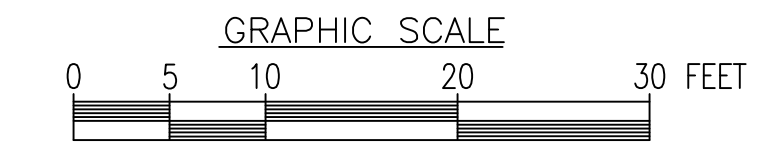
COMPOUND PLAN
22x34 SCALE: 1/8"=1'-0"
11x17 SCALE: 1/16"=1'-0"

1
C-2



EAST ELEVATION
22x34 SCALE: 1"=10'-0"
11x17 SCALE: 1"=20'-0"

2
C-2





CHECKED BY: DJR

APPROVED BY: DJR

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
0	08/05/2021	ISSUED FOR REVIEW	KAM

SITE NAME:

CT0114A
GLASTONBURY

SITE ADDRESS:
LOT N-4 SEQUIN DRIVE
GLASTONBURY, CT 06033

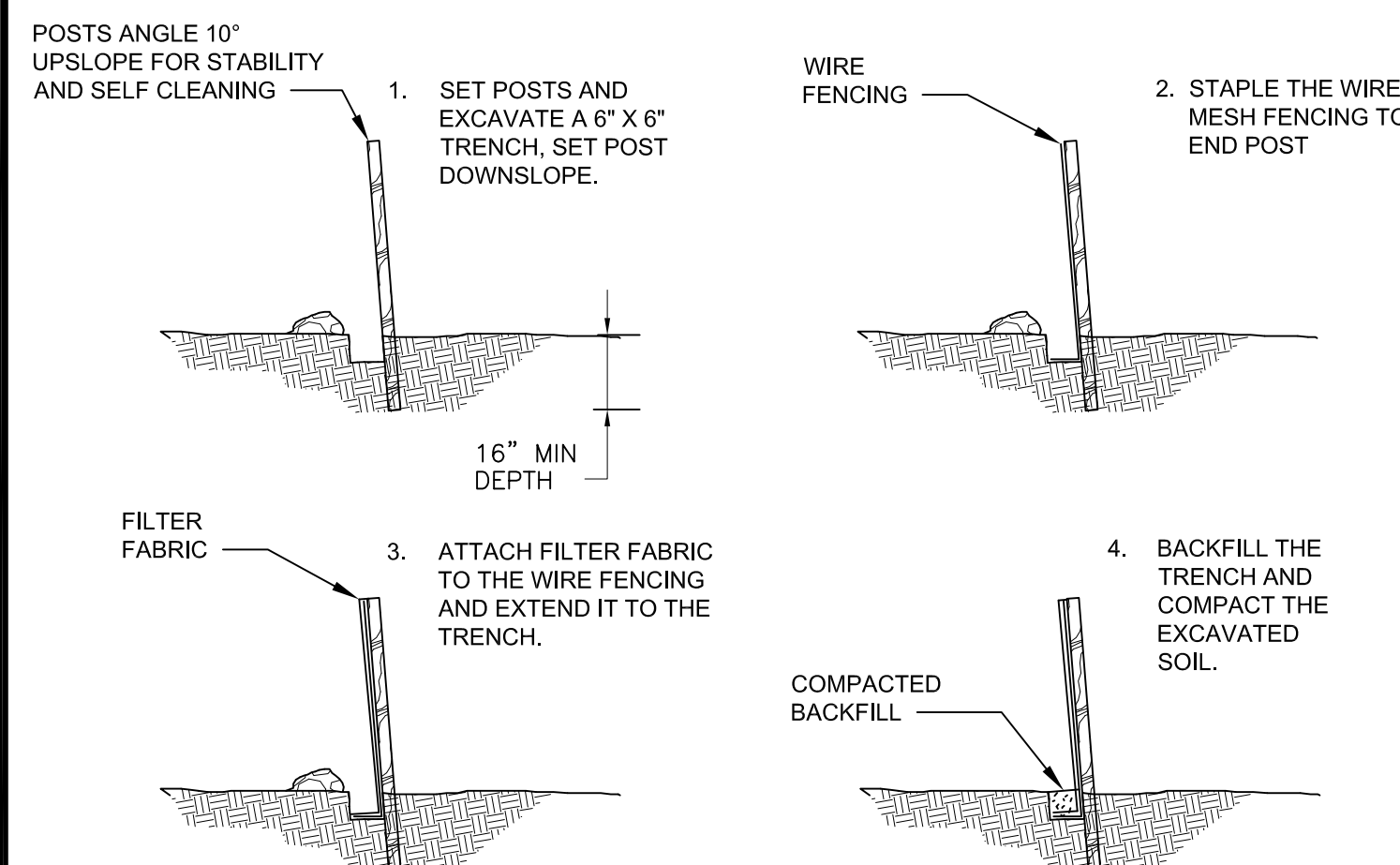
SHEET TITLE

SITE DETAILS

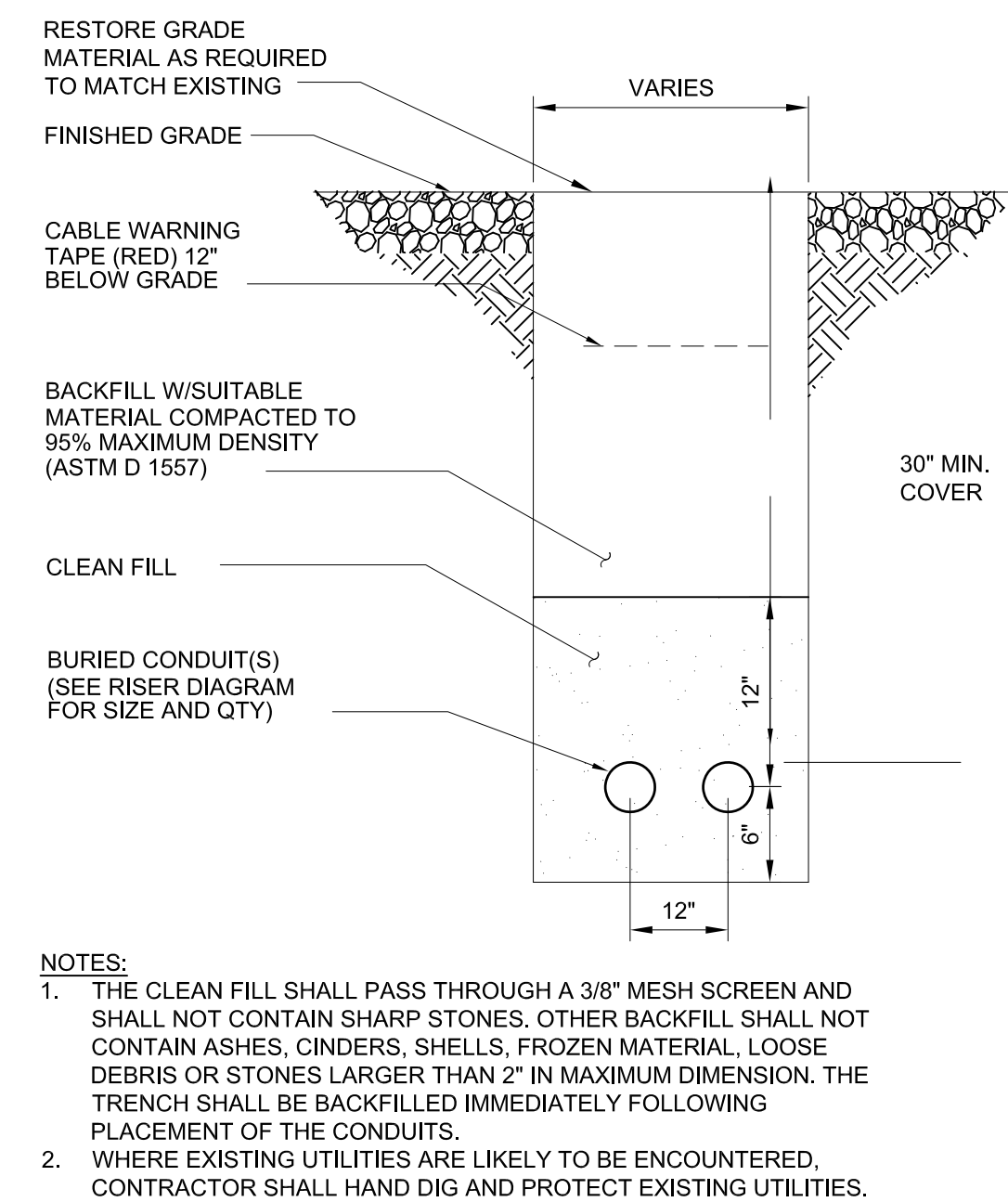
SHEET NUMBER

C-3

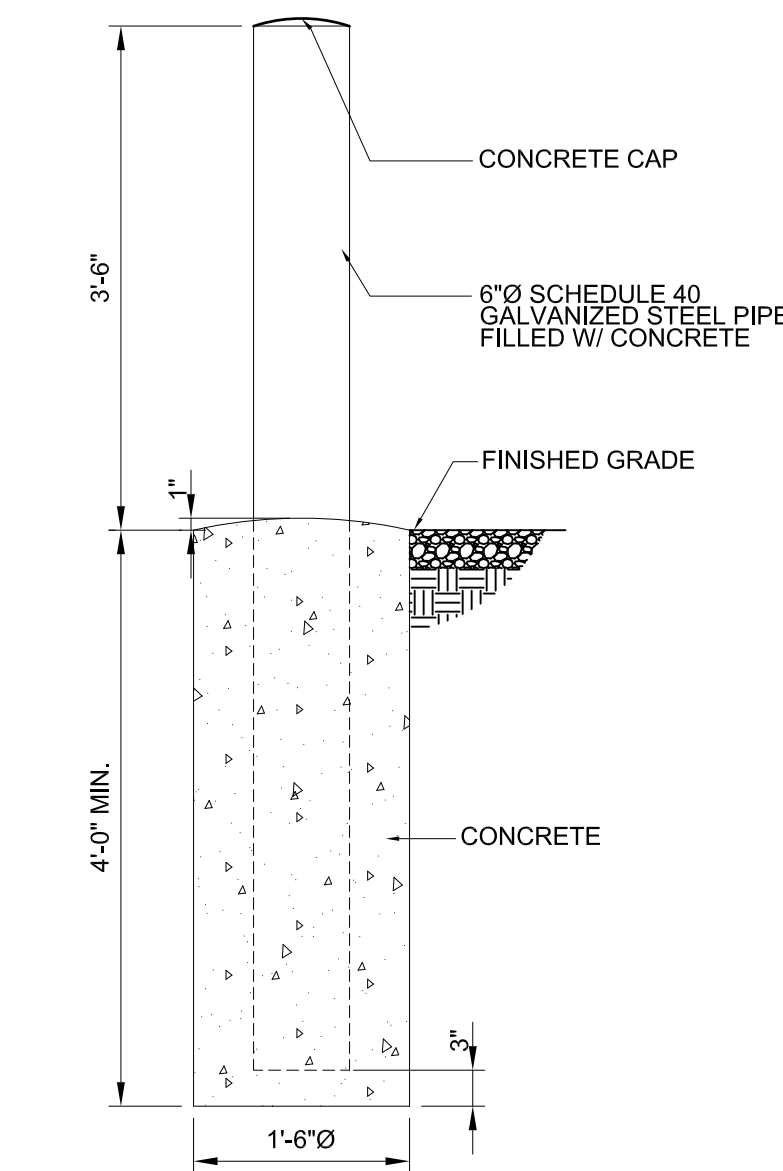
CONNECTICUT SITING COUNCIL DOCKET



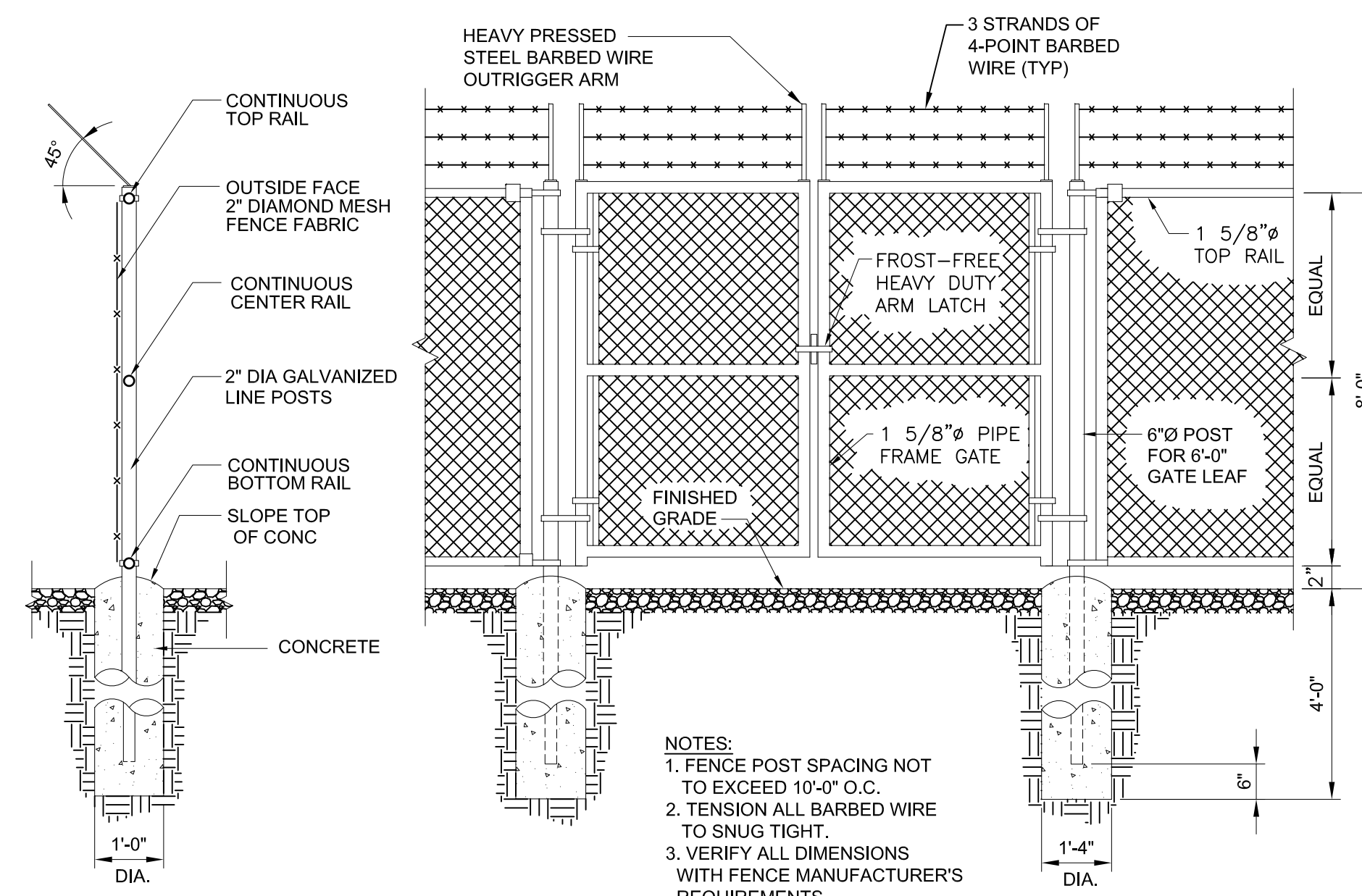
SEDIMENTATION CONTROL BARRIER 9
SCALE: N.T.S. C-3



UTILITY TRENCH 8
SCALE: N.T.S. C-3

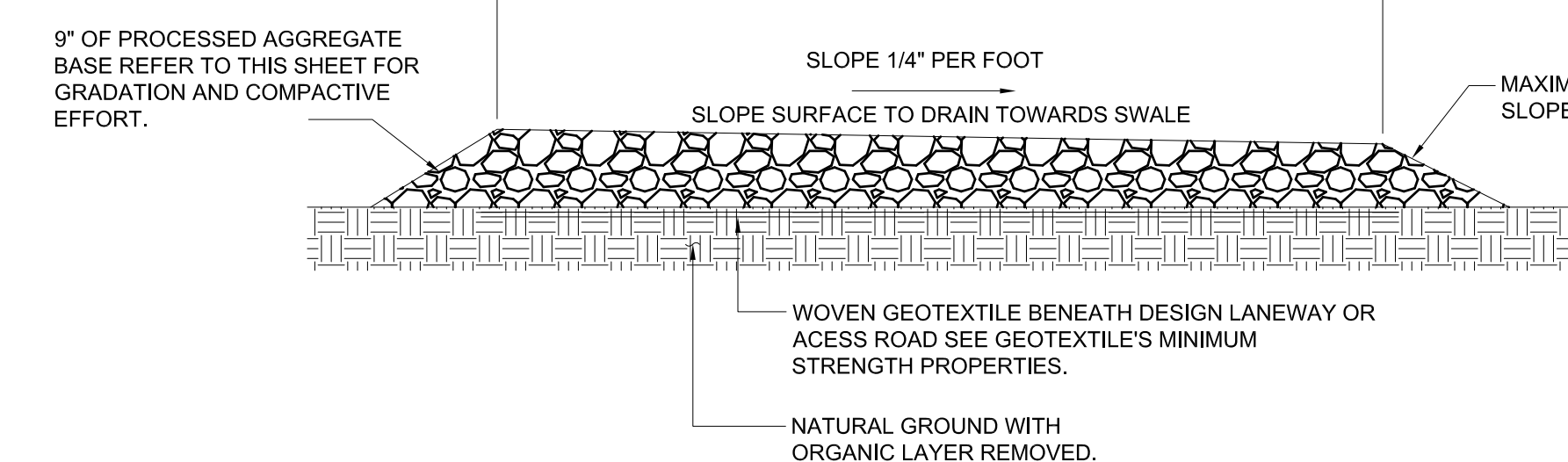


TYPICAL BOLLARD 7
22x34 SCALE: 3/4"=1'-0" C-3
11x17 SCALE: 3/8"=1'-0"

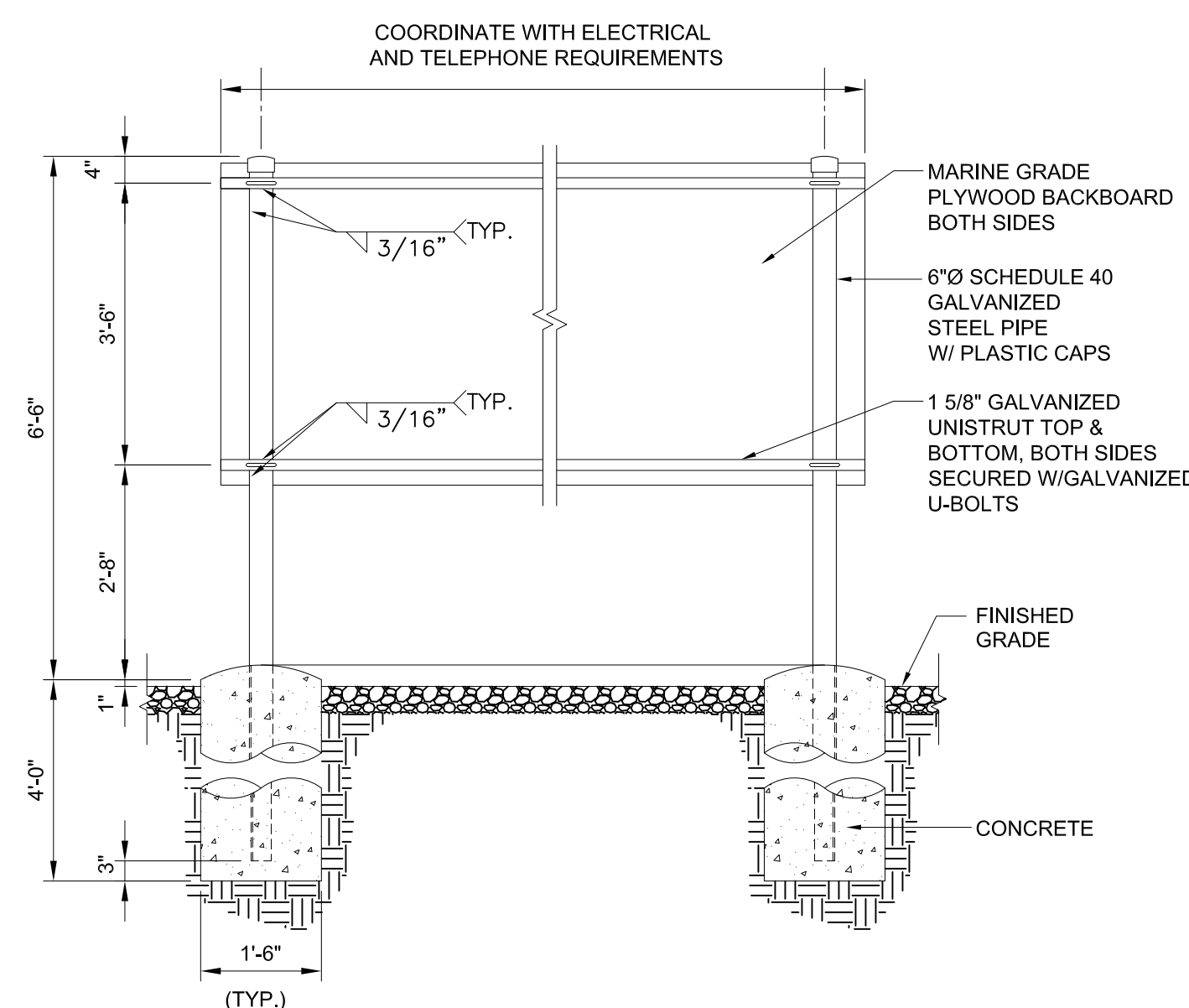


CHAIN LINK FENCE 6
SCALE: N.T.S. A-7

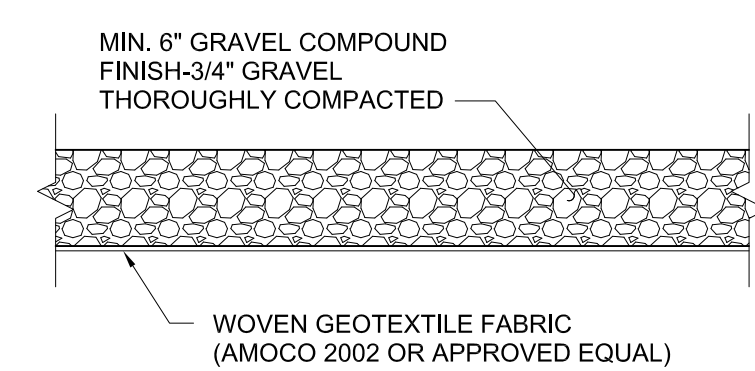
GEOTEXTILE NOTES:
GEOTEXTILE SHALL BE USED BENEATH DESIGN HEAVY USE AREA GRAVEL LAYER AS NOTED IN THE DRAWINGS, OR AS SPECIFIED BY THE NRCS PROJECT ENGINEER.
THIS MATERIAL MUST MEET "HIGH SURVIVABILITY CRITERIA"
- GRAB STRENGTH: ASTM D-1682 = 320 LBS. OR BETTER
- PUNCTURE STRENGTH: ASTM D-751-68 = 65 LBS. OR BETTER
- BURST STRENGTH: ASTM D-751-68 = 230 PSI OR BETTER
- TEAR STRENGTH: ASTM D-1117 = 55 LBS. OR BETTER



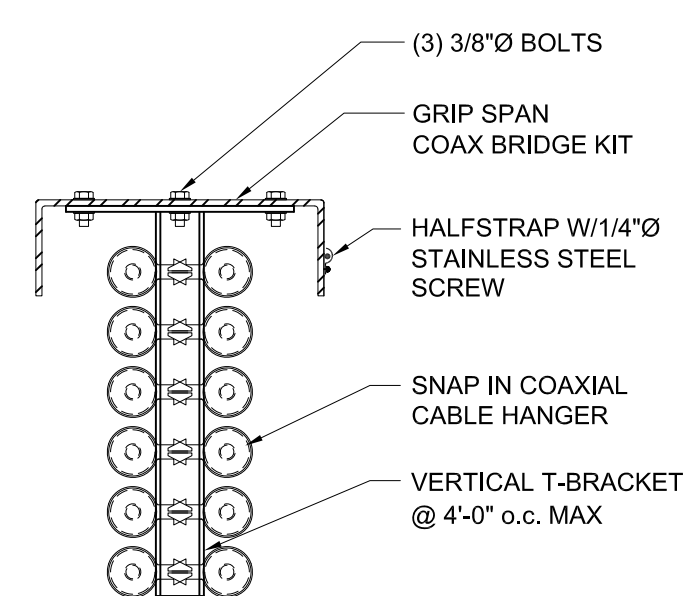
GRAVEL ACCESS DRIVE TYPICAL SECTION 1
SCALE: N.T.S. C-3



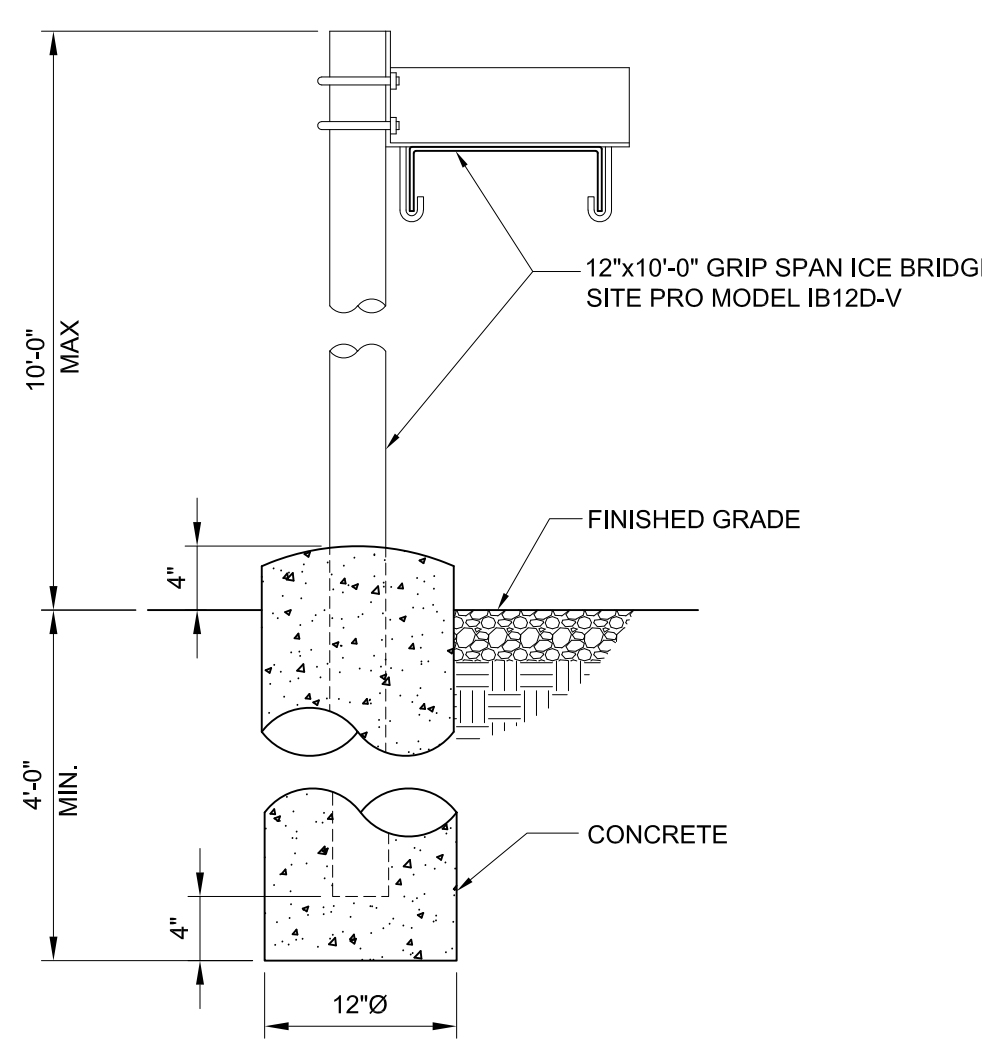
ELECTRIC-TELCO BACKBOARD 5
SCALE: N.T.S. C-3



GRAVEL COMPOUND DETAIL 4
22x34 SCALE: 1/2"=1'-0" C-3
11x17 SCALE: 1/4"=1'-0"



ICE BRIDGE DETAIL 3
22x34 SCALE: 1-1/2"=1'-0" C-3
11x17 SCALE: 3/4"=1'-0"



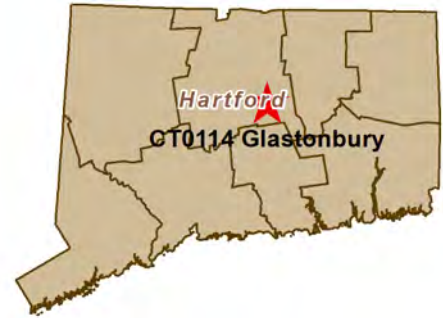
NOTE:
1. MAXIMUM 10' SPACING BETWEEN POST SUPPORTS

ICE BRIDGE DETAIL 2
22x34 SCALE: 1"=1'-0" C-3
11x17 SCALE: 1/2"=1'-0"

Viewshed Analysis Package

Proposed Wireless Telecommunications Facility:

CT0114 Glastonbury
Sequin Drive
Glastonbury, CT 06033



- Documentation Photos taken 2/11/21
- Proposed new 115 ft AGL antenna structure

Photo Simulations are for demonstration purposes only. It should not be used in any other fashion or with any other intent. The accuracy of the resulting data is not guaranteed and is not for redistribution



Introduction

At the request of Arx Wireless, LLC, Virtual Site Simulations, LLC (VSS) was contracted to provide a Viewshed Analysis Report for a proposed monopole type telecommunications facility located at Lot N-4 Sequin Drive, Glastonbury CT 06033. Hereafter referred to as “the Site”. The proposed tower facility would contain a 115 foot above ground level (“AGL”) monopole type antenna structure. Associated unmanned equipment will be contained within an approximately 50 ft x 50 ft fenced compound area immediately surrounding the base of the proposed tower.

Site Description and Setting

The proposed Monopole type telecommunications facility is located on a +/- 11.233 Acre property designated by the tax assessor as lot number F5-6200-N0004, owned by New Land of Glastonbury, LLC. The Site is approximately .5 miles east of Ct. Route 2 at the Ct Route 64 Hebron Avenue overpass. The site is located within a Commercial/Industrial area and the subject property is currently used as a materials storage yard. The nearest residential area is a apartment/condominium complex located approximately 750 ft to west.

The Links Transition School/Links Academy, 628 Hebron Avenue, building 4, Glastonbury CT 06033 is located .46 miles to the west and is the closest school to the proposed facility. The YMCA Child Care Program/Preschool 95 Oakwood Drive, Glastonbury CT 06033 is located .27 miles to the southwest of the site and is the closest licensed daycare facility. There are no CT Blue Blazed Trails within the study area.

There are no schools or licensed daycare facilities within 250 ft of the proposed facility.

Methodology

Determination of Study Area

In order to complete this analysis a study area must first be determined. For this site, a one-mile study area (2010.6 acre) was selected based on years of experience in modeling the visibility of telecommunication structures. Typical views from beyond this distance, in this type of Topography, are distant and partially obscured and are therefore omitted from the analysis. This is done to focus on areas within the defined study area that will have a larger visual impact.

The Viewshed Analysis was conducted within the predefined study area using three-dimensional computer modeling software described below.

Computer Modeling – Data Processing

Once the study area is selected, a combination of Ortho Image based, and Lidar based datasets are assembled.

Ortho Imagery is remotely sensed imagery that has been geometrically corrected. This geometric correction, or orthorectification, is required to adjust for lens distortion, camera tilt, and topographical relief. An orthorectified image is an extremely accurate view of the surface of the Earth. This allows for the measurement of true distance, precise digitization, and the exact placement of geographic symbols and analysis results.

LiDAR, or light detection ranging is a remote sensing method that maps structure including vegetation height, density and other characteristics across a region. Think of it as radar using laser light instead of radio waves. LiDAR directly measures the height and density of vegetation on the ground as well as the bare-earth topology.

The datasets are clipped to the study area and processed to create the 3d models necessary to perform this analysis. For Leaf On/Leaf off analysis three different models need to be created:

- 1. A Digital Elevation Model (“DEM”)- a 3d model of existing bare earth topography (i.e. no surface features, like trees and buildings)**
- 2. A Leaf-On Digital Surface Model (“DSM “)- a 3d model of existing topography that includes all surface features measured (i.e. building and trees)**
- 3. A Leaf-Off Digital Surface Model- a 3d model of existing topography that includes all surface features measured with specific analysis done to remove datapoints from deciduous trees/bushes (see Leaf Off considerations section below).**

It is important to note that by using lidar data to create these models, building heights, existing tree canopy heights and other land cover is not averaged or assumed but measured from lidar dataset. Several different software packages are used in this processing, most notably, ESRI ArcGIS platform is used to interpret Lidar data, perform image analysis and create a Digital Surface Model (“DSM “) and a corresponding Digital Elevation Model (“DEM”). These datasets are then used to perform a viewshed analysis.

Image Analysis Leaf Off considerations

In this case where Leaf Off analysis is necessary, an extra step is required to adjust DSM to remove leaves. There are many different methods that can be used to perform this analysis. Image analysis of Ortho Imagery taken at the same time as lidar measurement data was chosen as the best approximation for the purposes of this analysis. It has been proven to yield a reasonable approximation of what views would be likely in the leaf off condition. This analysis is used to differentiate between deciduous and non-deciduous (coniferous) trees and ground cover.

Once completed the calculated deciduous areas are removed from the DSM. This Leaf Off DSM is then used to perform the Leaf Off viewshed analysis.

Viewshed Analysis- IVSview®

The primary software used for the viewshed analysis is IVSview® VVS, LLC’s proprietary Interactive Viewshed Analysis Tool. This software allows the user to perform viewshed analysis on imported maps and datasets on multiple levels at the same time. These calculations determine not only if the tower will be seen, but also how much of the

tower will be visible from those locations. The IVSview® results have been field verified at thousands of locations with all topography types (i.e. urban, rural, mixed etc..) throughout New England. And, when compared to other viewshed analysis software packages, it has proven to provide a more realistic comprehensive representation of potential views.

The datasets are imported as layers within the software mapping program. Once imported, spatial analysis tools are used to evaluate each position within those layers from which the proposed facility may be visible. These tools allow for the input of viewing reference height (assumed to be 5 Ft AGL) and tower height(s). The tools also consider any layers that have been imported that may affect viewing location (i.e. topography, tree canopy, ground cover, buildings, roads etc.) IVSview® is then applied, and visibility models are created. The results of this computer model are then graphically layered on topographic and aerial maps.

These maps can be found in Attachment A.

On-site Observation & Documentation

A balloon test was conducted on Thursday, February 11th, 2021 and used as the visual reference for site observations from random locations throughout the study area. The balloon test consisted of flying a 3 Ft. diameter helium filled balloon to the top elevation of the proposed tower. Balloon diameter was measured using a custom set of calipers. A red balloon was used to provide the best contrast between it and surrounding sky or vegetation. The balloon was tethered to a location at the approximate location of the proposed tower, and its elevation was set by measuring the length of the tether. The elevation was verified using the Leica DISTO D2 Laser distometer.

Balloon test accuracy is very wind dependent. The balloon test was therefore scheduled on a day with wind conditions below the accepted threshold of 10mph. A preliminary viewshed analysis was done using the method outlined above to determine what areas were predicted to have views of the proposed site and to verify the computer model. Drive-by visual reconnaissance of the Study Area was then conducted using the preliminary viewshed analysis as a guide and existing tower as a reference. Locations where the Balloon was visible and not visible were photo documented and a GPS track

of reconnaissance areas was made. Reconnaissance areas were limited to public areas/roads, no private property was used in the on-site observations of this test.

Photo documentation of this test was accomplished using a Nikon P900 16Mp digital camera set to use a 50mm focal length^{1 2}. The Nikon P900 was chosen because it has built-in XMP metadata files that embed the GPS location, light conditions and bearing to target within the image source data file. These photos document the necessary location and bearing data to ensure the accuracy of simulation location. This documentation was then incorporated into a computer model prediction. The on-site observations were used to adjust model assumptions made in the 3d model as necessary.

Photographic Documentation

Twenty-eight photos were chosen to document the balloon test. The locations of these photos were chosen as to provide representative documentation within the study area. Six of the photographs were chosen from the on-site documentation photos and used to prepare photorealistic simulations of the proposed telecommunications facility. GPS coordinates and bearing information recorded within the XMP metadata file of the documentation photos was used to generate virtual camera positions within a 3d model. The balloon in the documentation photos as well as the existing tower were used as a spatial reference to verify the proportions and height of the proposed tower alterations. Site plan information, field observations and 3D models were then used in these simulations to portray relative scale and location of the proposed structure. The photo simulations were then created using a combination of the 3d model and photo rendering software. These simulations and the existing site photographs provided for reference are attached.

The simulations and documentation photos are plotted on the Viewshed Analysis Map (Attachment A) attached and shown in the Photo Simulation Package (Attachment B).

¹ "The lens that most closely approximates the view of the unaided human eye is known as the normal focal length lens. For the 35 mm camera format, which gives an 24 x 35mm image, the normal focal length is about 50mm" Warren Bruce Photography, West Publishing Company, Egan, MN c 1993 (page 70)

² 50 mm focal length is based on 35mm film photography. Since Digital photographic sensors are not the same size as 35mm film ALL digital photography focal lengths must be corrected

A List of Photo Documents provided is listed in table below:

CT0114 – Glastonbury, Connecticut - Photolog Visibility Chart

Image No	Approximate Address	Distance from tower	Visibility	Approximate amount of tower visible (ft)
1	40 Sequin Dr	0.17 Miles	Year Round	45 ft
2	45 Mill St	0.18 Miles	Not Visible	NA
3	370 Cavan Ln	0.22 Miles	Obscured	40 ft
4	Eastern Blvd and Hebron Ave	0.25 Miles	Obscured	11 ft
5	237 Cavan Ln	0.27 Miles	Not Visible	NA
6	271 Oakwood Dr	0.29 Miles	Not Visible	NA
7	628 Hebron Ave	0.37 Miles	Year Round	22 ft
8	1001 Hebron Ave	0.38 Miles	Not Visible	NA
9	National Dr and Eastern Blvd	0.41 Miles	Year Round	35 ft
10	133 Commerce St	0.42 Miles	Year Round	56 ft
11	556 Hebron Ave	0.54 Miles	Not Visible	NA
12	198 Addison Rd	0.58 Miles	Not Visible	NA
13	195 Eastern Blvd	0.59 Miles	Not Visible	NA
14	305 Western Blvd	0.61 Miles	Not Visible	NA
15	108 Warner Ct	0.63 Miles	Not Visible	NA
16	96 Chase Hollow Ln	0.64 Miles	Not Visible	NA
17	33 Lenox Dr	0.66 Miles	Not Visible	NA
18	155 Oak St	0.67 Miles	Not Visible	NA
19	151 National Dr	0.74 Miles	Not Visible	NA
20	77 Wadsworth St	0.77 Miles	Not Visible	NA
21	22 Kreiger Ln	0.79 Miles	Not Visible	NA
22	561 Oakwood Dr	0.8 Miles	Not Visible	NA
23	38 Rolling Hills Dr	0.81 Miles	Not Visible	NA
24	15 Heywood Dr	0.82 Miles	Not Visible	NA
25	2 Firethorn Dr	0.82 Miles	Not Visible	NA
26	1193 Hebron Ave	0.83 Miles	Not Visible	NA
27	326 Neipsic Rd	0.92 Miles	Not Visible	NA
28	952 New London Turnpike	0.93 Miles	Not Visible	NA

Visibility Analysis Results

The results of the of viewshed analysis for the proposed telecommunications facility are provided on the visibility analysis maps attached at the end of this report within Attachment A. The maps are provided in two ways, one set of maps comparing leaf-on, leaf-off conditions (single color for each) and a second set of maps showing proposed total visibility by height (IVSview® multi-level viewshed) as an overview.

Year-Round Visibility:

Predicted estimate of year-round views (Summer, leaf-on condition) of the proposed tower facility are from approximately 24.5 acres or approximately 1.22 % of the 1-mile radius, 2010.6 Acre study area. The majority of those specific views (9.6 Acres, .48 %) are of the upper most portion of the proposed tower. (see Attachment A - IVSview® for multi-level viewshed leaf-on prediction). The majority of remaining views (7.7 Acres .39%) are predicted to be contained within the commercial/ industrial area surrounding the site. The nearest residential areas are Dutton Place, an apartment/condominium complex 750 ft to the west of the proposed facility and a subdivision approximately .22 miles immediately to west of the site (Cavan Lane & Crestdale Road). Dutton place is predicted to have no year-round views of the proposed facility due to the existing forested area between the properties. Cavan Lane & Crestdale Road are predicted to have sporadic obscured year-round views (see images 3 & 5). The nearest daycare facility is located within the commercial area .27 miles to the west. Specific views from this area are predicted to be of the upper 25-50 % of the tower. The nearest school, The Link Transition Academy, is located .46 miles to the west, no views are predicted from this school.

Seasonal Visibility:

Predicted estimate seasonal views (Winter, leaf-off condition) of the proposed facility are from an additional 4.4 acres (.22 %). Total predicted seasonal views 28.9 Acres or approximately 1.44 % of the 1-mile radius, 2010.6 Acre study area. The majority of the additional leaf-off views are scatted along the edges of predicted leaf-on visibility. (see - IVSview® leaf-off prediction). The nearest residential area with predicted seasonal views of the proposed facility, Cavan Lane and Crestdale Road are predicted to have obstructed views of the tower through existing tree canopy. The largest area of predicted additional seasonal visibility is within an approximately 3.9 acres cultivated field are located .51 mile directly the north.

Documentation

Sources used for Visibility Analysis located at:

**CT0114 Glastonbury
Lot N-4 Sequin Drive,
Glastonbury CT 06033**

Maps and datasets /consulting documents:

United States Geological Survey - USGS Topographical quadrangles (2011-2012)

National Resource Conservation Service -NAIP aerial photography (2010, 2012)

CRCOG Ortho-imagery – (2017)

UCONN- Center for Land Use Education and Research

- **LiDAR data (2016)**

DEEP- Connecticut Department of Energy and Environmental Protection

- **Open Space (2010)**
- **DEEP Property (2017)**
- **Historic Places (2008)**

United States Census (2010) – Landmark Polygon Features

Connecticut Forest & Park Association (CFPA) – Blue Blazed Trails (2016)

Connecticut.Gov eLicensing Website – Child Daycare & Group Daycare Homes Roster (2017)

Environmental Systems Research Institute Inc (ERSI) – CT state boundaries/counties (2010)

Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo

Limitations:

This report and the analysis herein does not claim to depict all locations, or the only locations from which the proposed facility will be visible; it is intended to provide a representation of those areas where proposed facility is likely to be visible.

Attachment A - Viewshed Analysis Package

Proposed Wireless Telecommunications Facility:

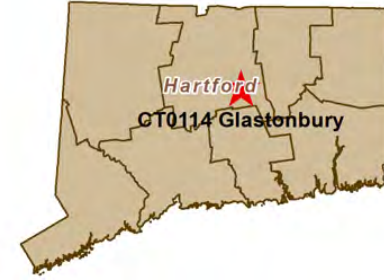
CT0114 Glastonbury
Lot N-4 Sequin Drive
Glastonbury, CT 06033

- Proposed new 115 ft AGL antenna structure
- Viewshed map completed 8/4/21

Package prepared by:

Virtual Site Simulations, LLC
24 Salt Pond Road
Suite C3
South Kingstown, Rhode Island 02879

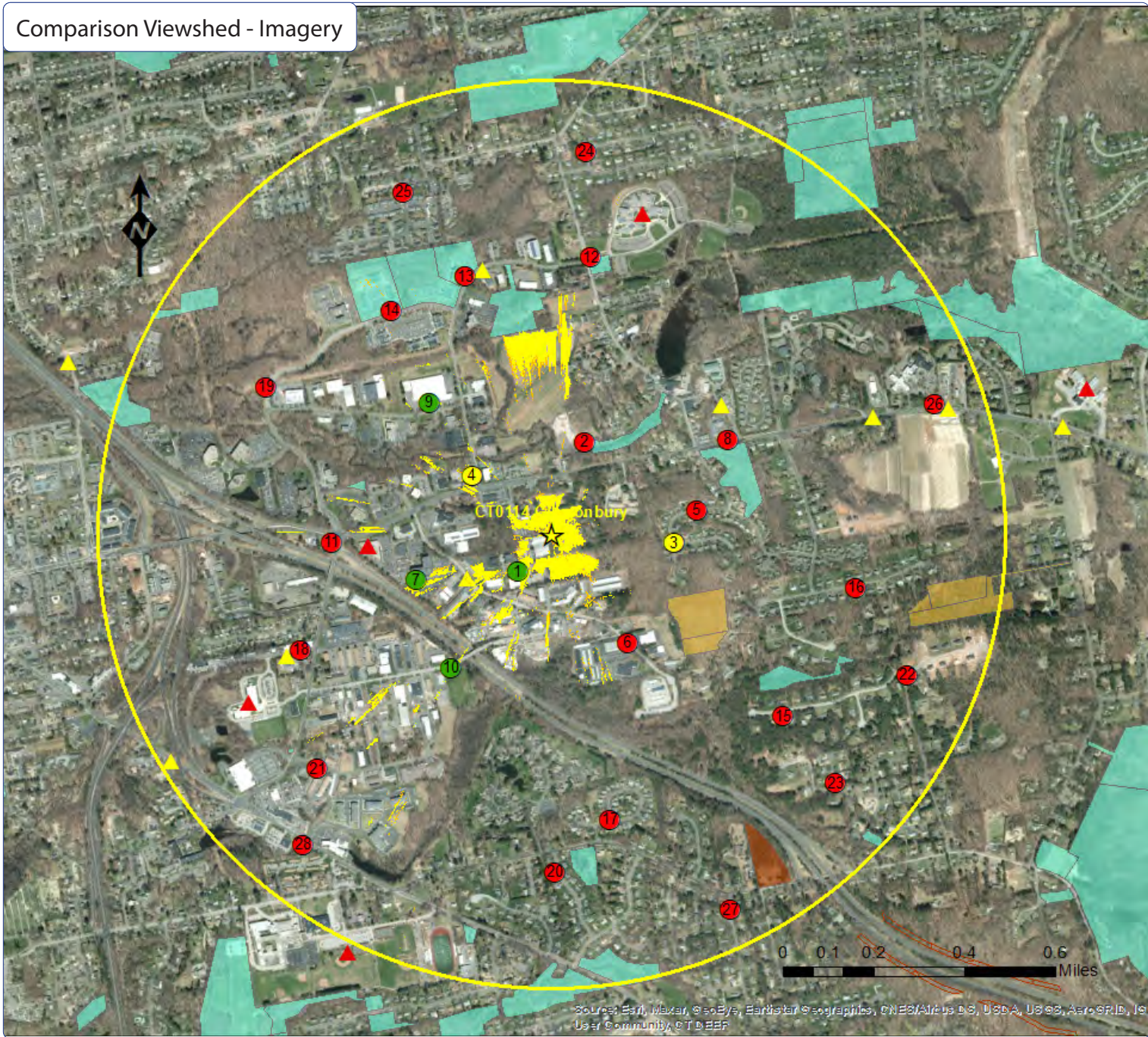
www.VirtualSiteSimulations.com
www.ThinkVSSFirst.com



Viewshed analysis maps and representations contained herein depict where proposed facility may potentially be visible based on the best data available and site conditions at the time data was collected. This study does not claim to depict all locations from where the facility may be potentially visible.



Comparison Viewshed - Imagery



Proposed Facility:

CT0114 Glastonbury
 Lot N-4 Sequin Drive
 Glastonbury, CT 06033

☆ Facility Location ○ 1 Mile Radius

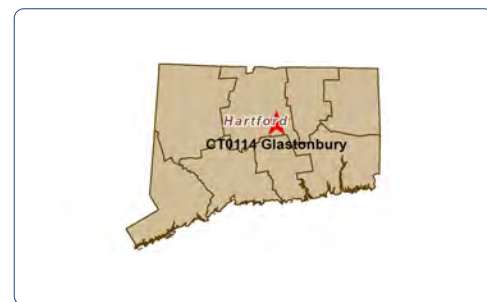
- Photo location -Balloon visible- Year Round
- Photo location -Balloon visible- Seasonal
- Photo location -Balloon NOT visible
- ▲ School Facilities ▲ Daycare Facilities
- CT Open Space (Conservation Land)
- CT Open Space (Municipal Land)
- CT Open Space (State Land)
- Predicted Visibility-Year Round(Leaf On)
- Predicted Visibility-Seasonal(Leaf Off)

Statistics:

PROJ_DESC=Geographic (Lat/Long) / WGS84 / arc degrees
 PROJ_DATUM=WGS84 PROJ_UNITS=arc degrees
 PIXEL_WIDTH=0.0000013 arc degrees (+/- .6 ft)
 PIXEL_HEIGHT=0.0000014 arc degrees(+/- .6 ft)
 RADIUS (FT)= 1 Mile
 TRANSMITTER_HEIGHT (Ft-AGL)= 115
 RECEIVER_HEIGHT (Ft-AGL)= 5 Ft
 PERCENT_VISIBLE (%) Year Round (Leaf On)= 1.22%
 PERCENT_VISIBLE (%) Seasonal (Leaf Off)= 1.44%

Notes:

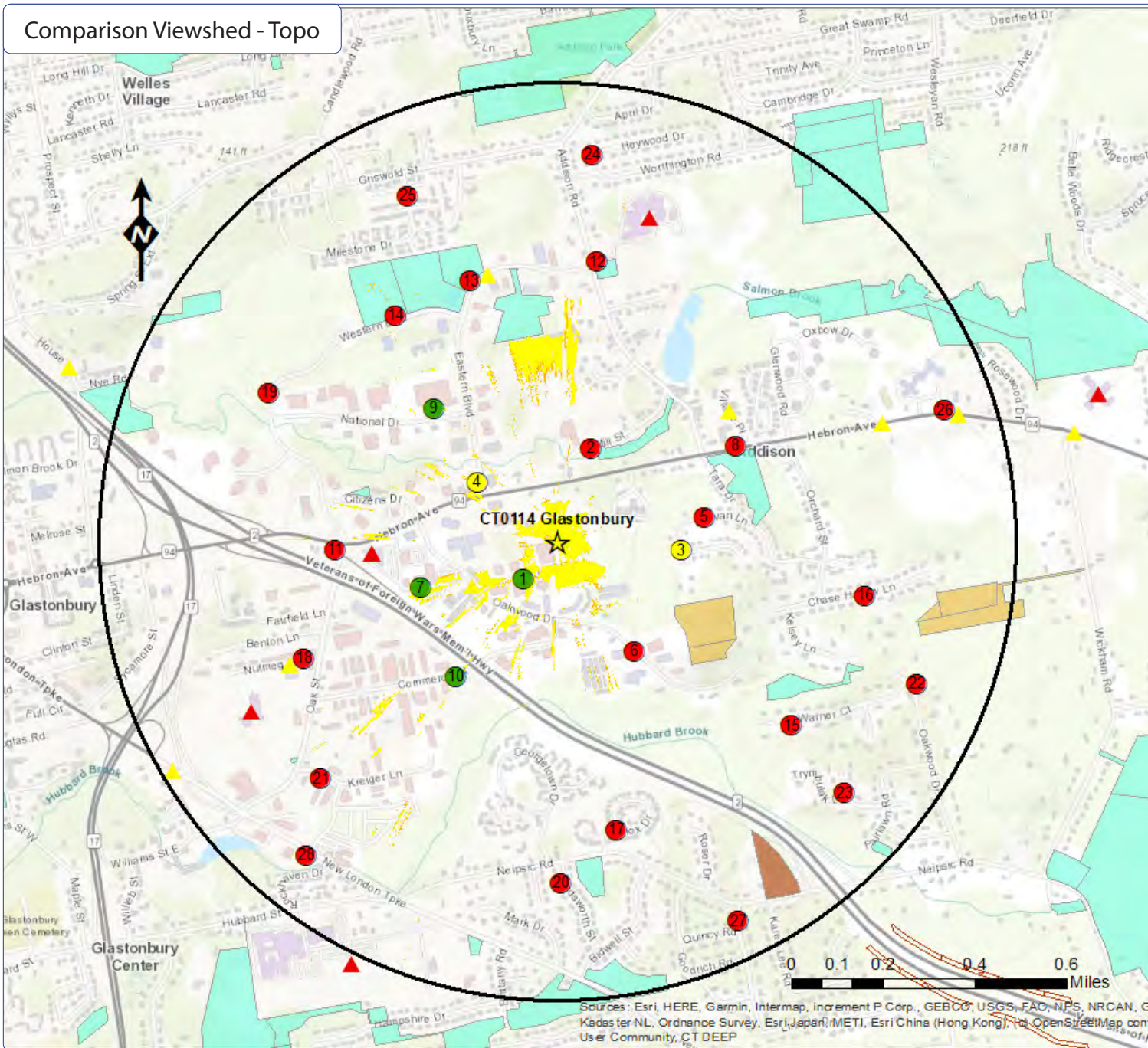
- map compiled by VSS, LLC on : 8/4/21
- Tower location(lat/long NAD 83): 41.714242 -72.581756
- Data Sources noted on documentation page attached



Viewshed analysis maps and representations contained herein depict where proposed facility may potentially be visible based on the best data available and site conditions at the time data was collected. This study does not claim to depict all locations from where the facility may be potentially visible.



Comparison Viewshed - Topo



Proposed Facility:

CT0114 Glastonbury
 Lot N-4 Sequin Drive
 Glastonbury, CT 06033

☆ Facility Location ○ 1 Mile Radius

- ⊗ Photo location -Balloon visible- Year Round
- ⊗ Photo location -Balloon visible- Seasonal
- ⊗ Photo location -Balloon NOT visible
- ▲ School Facilities ▲ Daycare Facilities
- CT Open Space (Conservation Land)
- CT Open Space (Municipal Land)
- CT Open Space (State Land)
- Predicted Visibility-Year Round(Leaf On)
- Predicted Visibility-Seasonal(Leaf Off)

Statistics:

PROJ_DESC=Geographic (Lat/Long) / WGS84 / arc degrees
 PROJ_DATUM=WGS84 PROJ_UNITS=arc degrees
 PIXEL WIDTH=0.0000013 arc degrees (+/- .6 ft)
 PIXEL HEIGHT=0.0000014 arc degrees(+/- .6 ft)
 RADIUS (FT)= 1 Mile
 TRANSMITTER_HEIGHT (Ft-AGL)= 115
 RECEIVER_HEIGHT (Ft-AGL)= 5 Ft
 PERCENT_VISIBLE (%) Year Round (Leaf On)= 1.22%
 PERCENT_VISIBLE (%) Seasonal (Leaf Off)= 1.44%

Notes:

- map compiled by VSS, LLC on : 8/4/21
- Tower location(lat/long NAD 83): 41.714242 -72.581756
- Data Sources noted on documentation page attached



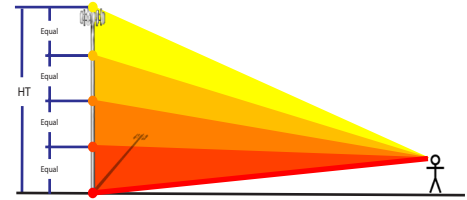
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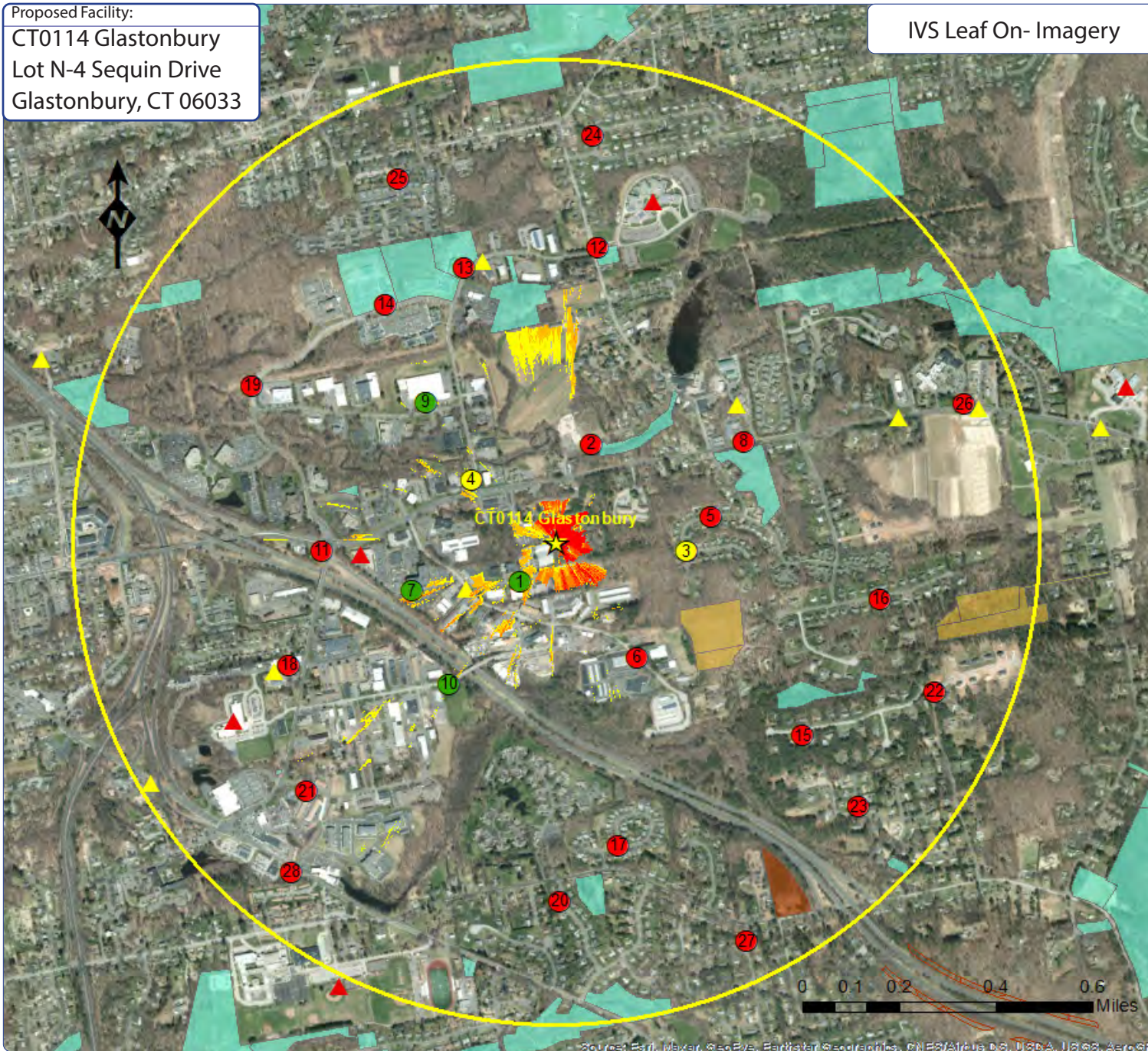
Proposed Facility:
 CT0114 Glastonbury
 Lot N-4 Sequin Drive
 Glastonbury, CT 06033

IVS Leaf On- Imagery

IVSview® Color Legend



- ☆ Facility Location ○ 1 Mile Radius
- ⊗ Photo location -Balloon visible- Year Round
- ⊗ Photo location -Balloon visible- Seasonal
- ⊗ Photo location -Balloon NOT visible
- ▲ School Facilities ▲ Daycare Facilities
- CT Open Space (Conservation Land)
- CT Open Space (Municipal Land)
- CT Open Space (State Land)



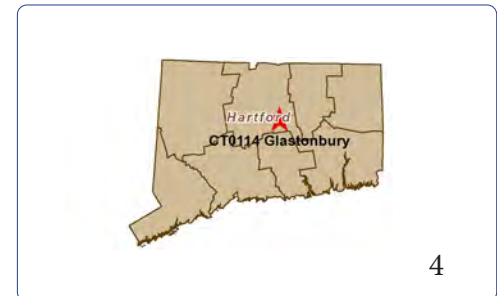
Tower Visibility			
Color	Location	% Vis	Acres
Yellow	Top 25%	0.48%	9.6
Light Orange	Top 50%	0.36%	7.2
Orange	Top 75%	0.13%	2.6
Dark Orange	Top 100%	0.09%	1.7
Red	Base	0.17%	3.4
TOTAL		1.22%	24.5 Acres

Statistics:

PROJ_DESC=Geographic (Lat/Long) / WGS84 / arc degrees
 PROJ_DATUM=WGS84 PROJ_UNITS=arc degrees
 PIXEL WIDTH=0.0000013 arc degrees (+/- .6 ft)
 PIXEL HEIGHT=0.0000014 arc degrees (+/- .6 ft)
 RADIUS (FT)= 1 Mile
 TRANSMITTER_HEIGHT (Ft-AGL)= 115
 RECEIVER_HEIGHT (Ft-AGL)= 5 Ft
 PERCENT_VISIBLE (%) Year Round (Leaf On)= 1.22%
 PERCENT_VISIBLE (%) Seasonal (Leaf Off)= 1.44%

Notes:

- map compiled by VSS, LLC on :8/4/21
- Tower location(lat/long NAD 83): 41.714242 -72.581756
- Data Sources noted on documentation page attached



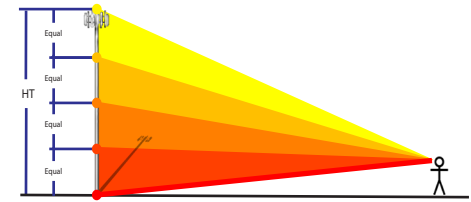
VSS-IVS- Interactive Viewshed Analysis output maps contained herein depict where proposed facility may potentially be visible based on the best and newest data publicly available at the time the data was collected. VSS does not claim to depict all locations from where the facility may potentially be visible and calculated output should be confirmed by site testing as needed.



Proposed Facility:
 CT0114 Glastonbury
 Lot N-4 Sequin Drive
 Glastonbury, CT 06033

IVS Leaf Off - Imagery

IVSview® Color Legend



☆ Facility Location ○ 1 Mile Radius

- ⊗ Photo location -Balloon visible- Year Round
- ⊗ Photo location -Balloon visible- Seasonal
- ⊗ Photo location -Balloon NOT visible
- ▲ School Facilities ▲ Daycare Facilities
- CT Open Space (Conservation Land)
- CT Open Space (Municipal Land)
- CT Open Space (State Land)

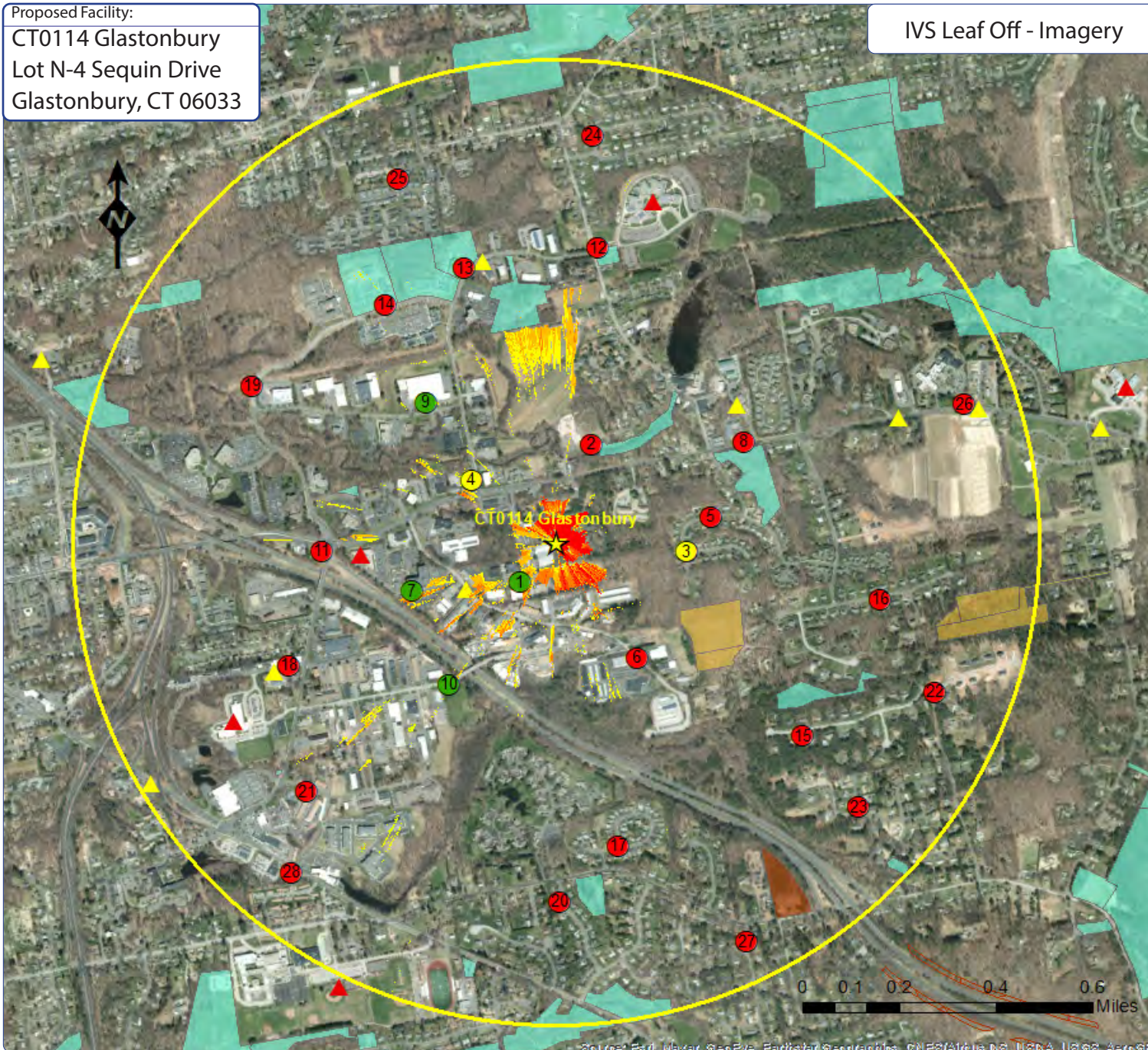
Tower Visibility			
Color	Location	% Vis	Acres
Yellow	Top 25%	0.50%	10.0
Orange	Top 50%	0.45%	8.9
Red-Orange	Top 75%	0.20%	4.0
Red	Top 100%	0.11%	2.2
Dark Red	Base	0.18%	3.7
TOTAL		1.44%	28.9 Acres

Statistics:

PROJ_DESC=Geographic (Lat/Long) / WGS84 / arc degrees
 PROJ_DATUM=WGS84 PROJ_UNITS=arc degrees
 PIXEL WIDTH=0.0000013 arc degrees (+/- .6 ft)
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 PERCENT_VISIBLE (%) Year Round (Leaf On)= 1.22%
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Notes:

- map compiled by VSS, LLC on :8/4/21
- Tower location(lat/long NAD 83): 41.714242 -72.581756
- Data Sources noted on documentation page attached



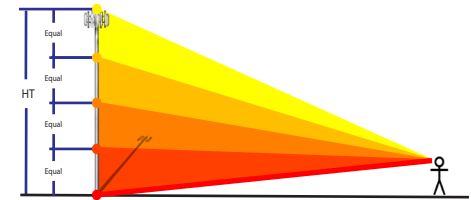
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Proposed Facility:
 CT0114 Glastonbury
 Lot N-4 Sequin Drive
 Glastonbury, CT 06033

IVS Leaf On - Topo

IVSview® Color Legend



- ☆ Facility Location ○ 1 Mile Radius
- ⊗ Photo location -Balloon visible- Year Round
- ⊗ Photo location -Balloon visible- Seasonal
- ⊗ Photo location -Balloon NOT visible
- ▲ School Facilities ▲ Daycare Facilities
- CT Open Space (Conservation Land)
- CT Open Space (Municipal Land)
- CT Open Space (State Land)

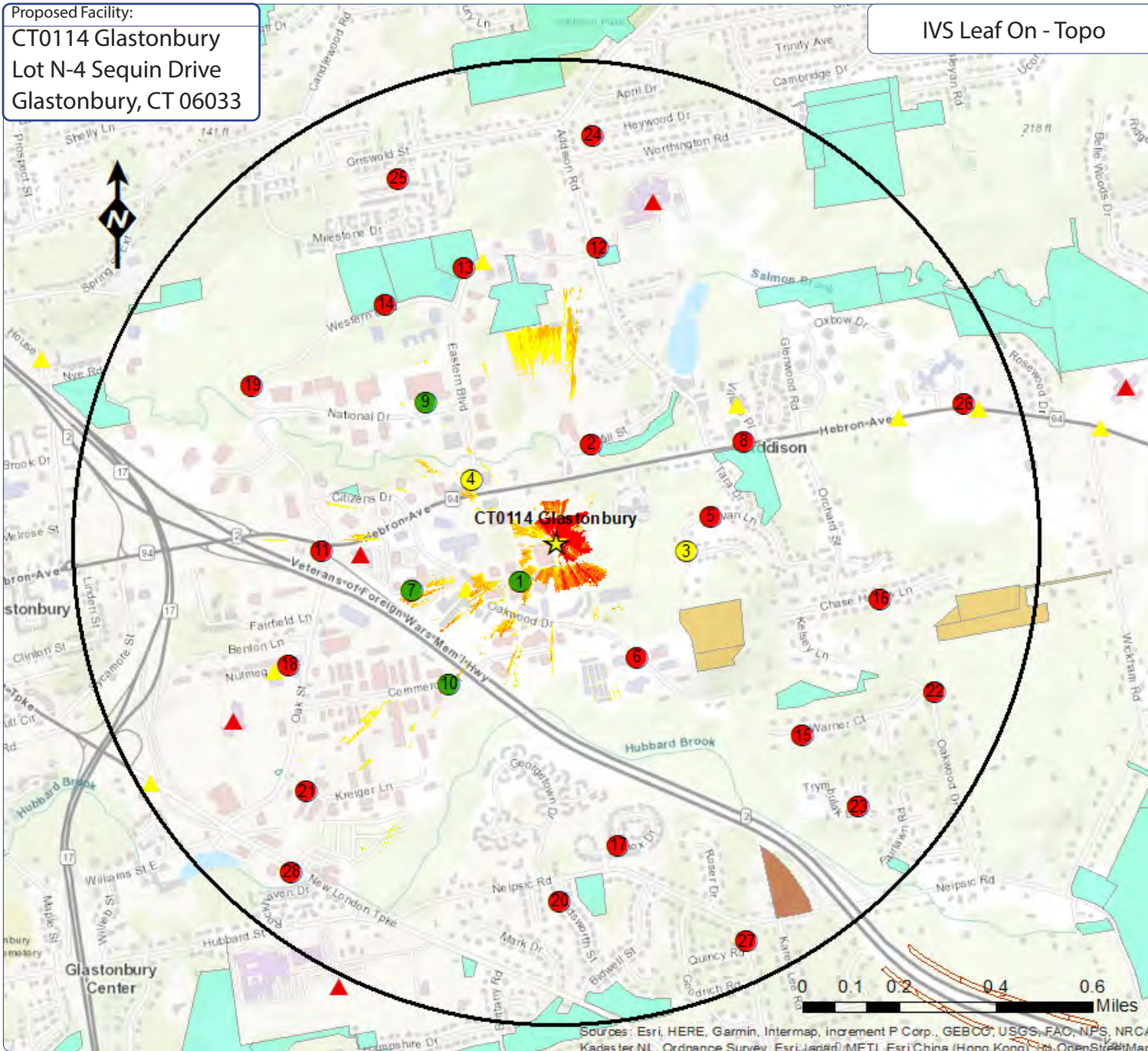
Tower Visibility			
Color	Location	% Vis	Acres
Yellow	Top 25%	0.48%	9.6
Orange	Top 50%	0.36%	7.2
Red-Orange	Top 75%	0.13%	2.6
Red	Top 100%	0.09%	1.7
Dark Red	Base	0.17%	3.4
TOTAL		1.22%	24.5 Acres

Statistics:

PROJ_DESC=Geographic (Lat/Long) / WGS84 / arc degrees
 PROJ_DATUM=WGS84 PROJ_UNITS=arc degrees
 PIXEL WIDTH=0.000013 arc degrees (+/- .6 ft)
 PIXEL HEIGHT=0.000014 arc degrees (+/- .6 ft)
 RADIUS (FT)= 1 Mile
 TRANSMITTER_HEIGHT (Ft-AGL)= 115
 RECEIVER_HEIGHT (Ft-AGL)= 5 Ft
 PERCENT_VISIBLE (%) Year Round (Leaf On)= 1.22%
 PERCENT_VISIBLE (%) Seasonal (Leaf Off)= 1.44%

Notes:

- map compiled by VSS, LLC on :8/4/21
- Tower location(lat/long NAD 83): 41.714242 -72.581756
- Data Sources noted on documentation page attached



Sources : Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, Kadaster, NL, Ordnance Survey, Esri, Leica, METI, Esri, China (Hong Kong), Sw, OpenStreetMap

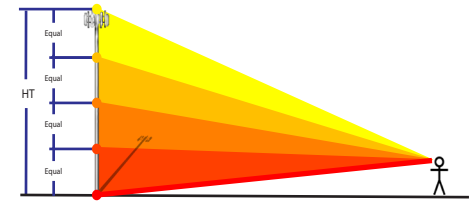
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Proposed Facility:
 CT0114 Glastonbury
 Lot N-4 Sequin Drive
 Glastonbury, CT 06033

IVS Leaf Off - Topo

IVSview® Color Legend



- ☆ Facility Location ○ 1 Mile Radius
- ⊗ Photo location -Balloon visible- Year Round
- ⊗ Photo location -Balloon visible- Seasonal
- ⊗ Photo location -Balloon NOT visible
- ▲ School Facilities ▲ Daycare Facilities
- CT Open Space (Conservation Land)
- CT Open Space (Municipal Land)
- CT Open Space (State Land)

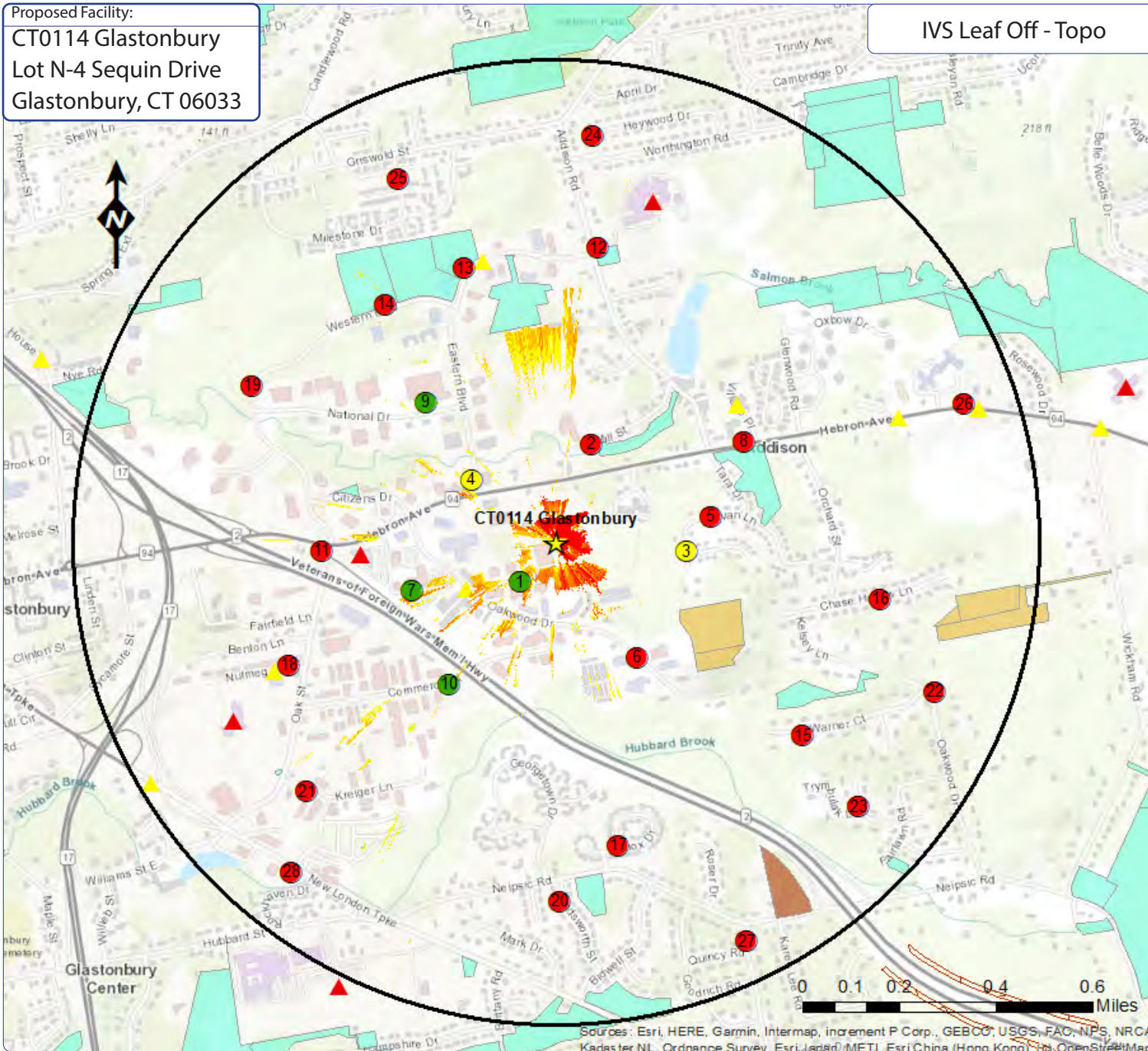
Tower Visibility			
Color	Location	% Vis	Acres
Yellow	Top 25%	0.50%	10.0
Orange	Top 50%	0.45%	8.9
Red-Orange	Top 75%	0.20%	4.0
Red	Top 100%	0.11%	2.2
Dark Red	Base	0.18%	3.7
TOTAL		1.44%	28.9 Acres

Statistics:

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 PROJ_DATUM=WGS84 PROJ_UNITS=arc degrees
 PIXEL WIDTH=0.0000013 arc degrees (+/- .6 ft)
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Notes:

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- Tower location(lat/long NAD 83): 41.714242 -72.581756
- Data Sources noted on documentation page attached



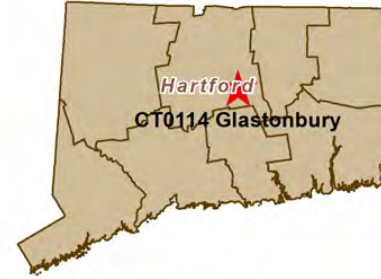
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, Kadaster NL, Ordnance Survey, Esri, Leica, METI, Esri China (Hong Kong), Sw, OpenStreetMap

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Attachment B - Photographic Simulation Package

Proposed Wireless Telecommunications Facility:



CT0114 Glastonbury
Sequin Drive
Glastonbury, CT 06033

- Balloon Test Conducted 2/11/21

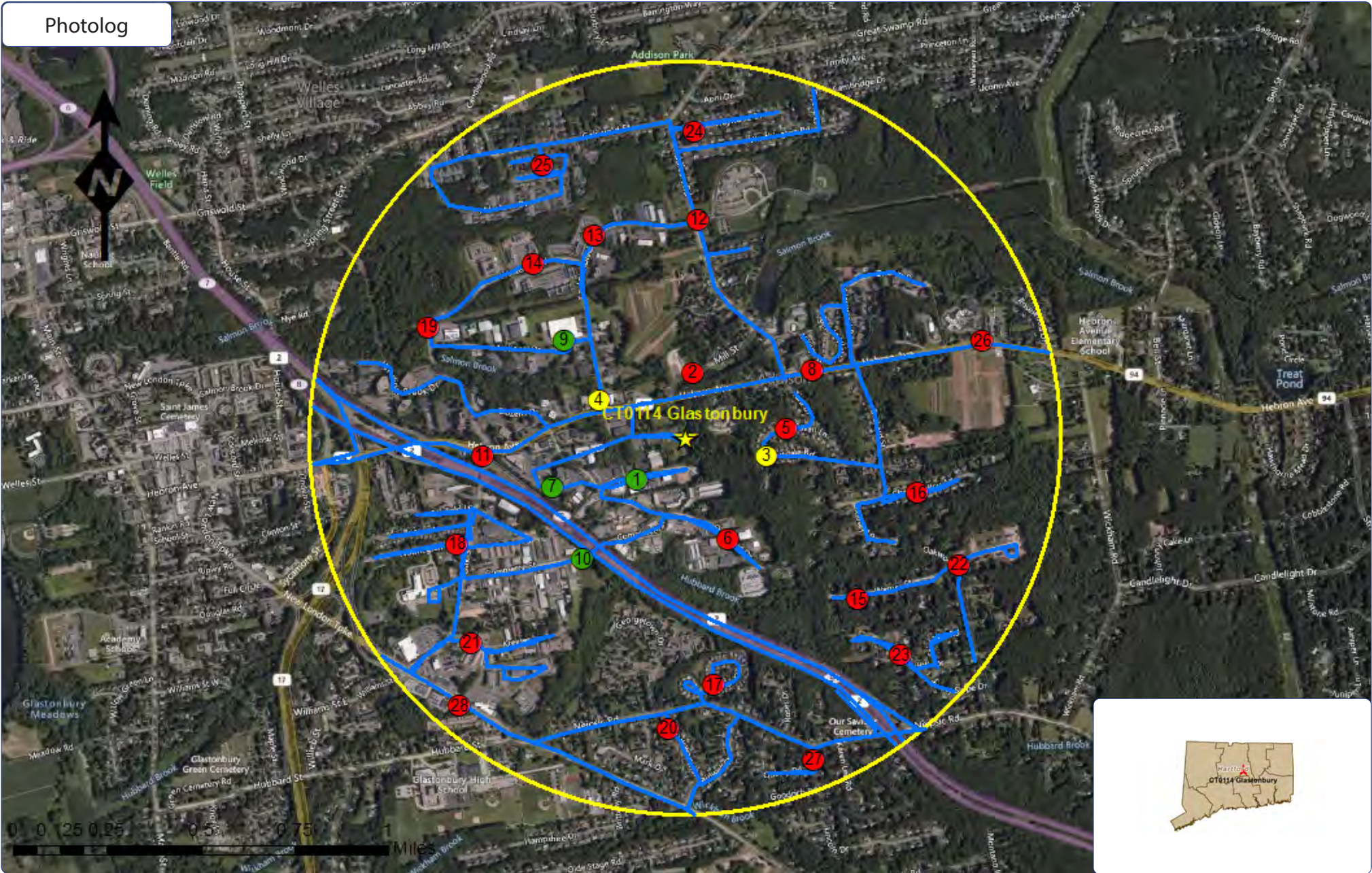
Package prepared by:

Virtual Site Simulations, LLC
24 Salt Pond Road
Suite C3
South Kingstown, Rhode Island 02879

www.VirtualSiteSimulations.com
www.ThinkVSSFirst.com

Photo Simulations are for demonstration purposes only. It should not be used in any other fashion or with any other intent. The accuracy of the resulting data is not guaranteed and is not for redistribution





Wireless Telecommunications Facility:

CT0114 Glastonbury
 Sequin Street
 Glastonbury, CT 06033

Legend:

- ★ Facility Location
- 1 Mile Radius
- Reconnaissance Track Log
- ⊗ Photo location - Balloon visible
- Year Round Visibility
- ⊙ Photo location - Balloon visible
- Obscured Visibility
- ⊗ Photo location - Balloon NOT visible

Photo Simulations are for demonstration purposes only. It should not be used in any other fashion or with any other intent. The accuracy of the resulting data is not guaranteed and is not for redistribution



Existing



Photo #	Approximate Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
1	Sequin Dr	41.71305 -72.58317	0.17 Miles	South-West	48	Year Round

Site: CT0114 Glastonbury

Photo Simulations are for demonstration purposes only. It should not be used in any other fashion or with any other intent. The accuracy of the resulting data is not guaranteed and is not for redistribution



Simulation



Photo #	Approximate Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
1	Sequin Dr	41.71305 -72.58317	0.17 Miles	South-West	48	Year Round

Site: CT0114 Glastonbury

Photo Simulations are for demonstration purposes only. It should not be used in any other fashion or with any other intent. The accuracy of the resulting data is not guaranteed and is not for redistribution



Existing

Balloon not visible from this location



Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
2	Mill St	41.71718	-72.5803	0.18 Miles	North	188	Not Visible

Site: CT0114 Glastonbury

Photo Simulations are for demonstration purposes only. It should not be used in any other fashion or with any other intent. The accuracy of the resulting data is not guaranteed and is not for redistribution



Existing



Photo #	Approximate Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
3	Cavan Ln	41.71396 -72.57653	0.22 Miles	East	282	Obscured

Site: CT0114 Glastonbury

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Simulation



Photo #	Approximate Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
3	Cavan Ln	41.71396 -72.57653	0.22 Miles	East	282	Obscured

Site: CT0114 Glastonbury

Photo Simulations are for demonstration purposes only. It should not be used in any other fashion or with any other intent. The accuracy of the resulting data is not guaranteed and is not for redistribution



Existing



Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
4	Bld and Hebron Ave	41.71613	-72.5851	0.25 Miles	North-West	114	Obscured

Site: CT0114 Glastonbury

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Simulation



Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
4	Bld and Hebron Ave	41.71613	-72.5851	0.25 Miles	North-West	114	Obscured

Site: CT0114 Glastonbury

Photo Simulations are for demonstration purposes only. It should not be used in any other fashion or with any other intent. The accuracy of the resulting data is not guaranteed and is not for redistribution



Existing

Balloon not visible from this location



Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
5	Cavan Ln	41.71501	-72.57553	0.27 Miles	East	265	Not Visible

Site: CT0114 Glastonbury

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Existing

Balloon not visible from this location



Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
6	Oakwood Dr	41.71077	-72.57851	0.29 Miles	South-East	337	Not Visible

Site: CT0114 Glastonbury

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Existing



Photo #	Approximate Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
7	Hebron Ave	41.71278 -72.58751	0.37 Miles	West	70	Year Round

Site: CT0114 Glastonbury

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Simulation



Photo #	Approximate Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
7	Hebron Ave	41.71278 -72.58751	0.37 Miles	West	70	Year Round

Site: CT0114 Glastonbury

Photo Simulations are for demonstration purposes only. It should not be used in any other fashion or with any other intent. The accuracy of the resulting data is not guaranteed and is not for redistribution



Existing

Balloon not visible from this location



Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
8	Hebron Ave	41.71725	-72.57419	0.38 Miles	North-East	242	Not Visible

Site: CT0114 Glastonbury

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Existing



Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
9	Dr and Eastern Blvd	41.71845	-72.58691	0.41 Miles	North-West	130	Year Round

Site: CT0114 Glastonbury

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Photo #	Approximate Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
9	Dr and Eastern Blvd	41.71845 -72.58691	0.41 Miles	North-West	130	Year Round

Site: CT0114 Glastonbury

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Existing



Photo #	Approximate Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
10	Commerce St	41.71 -72.58601	0.42 Miles	South-West	40	Year Round

Site: CT0114 Glastonbury

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Simulation



Photo #	Approximate Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
10	Commerce St	41.71 -72.58601	0.42 Miles	South-West	40	Year Round

Site: CT0114 Glastonbury

Photo Simulations are for demonstration purposes only. It should not be used in any other fashion or with any other intent. The accuracy of the resulting data is not guaranteed and is not for redistribution



Existing

Balloon not visible from this location



Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
11	Hebron Ave	41.714	-72.59113	0.54 Miles	West	85	Not Visible

Site: CT0114 Glastonbury

Photo Simulations are for demonstration purposes only. It should not be used in any other fashion or with any other intent. The accuracy of the resulting data is not guaranteed and is not for redistribution



Existing

Balloon not visible from this location

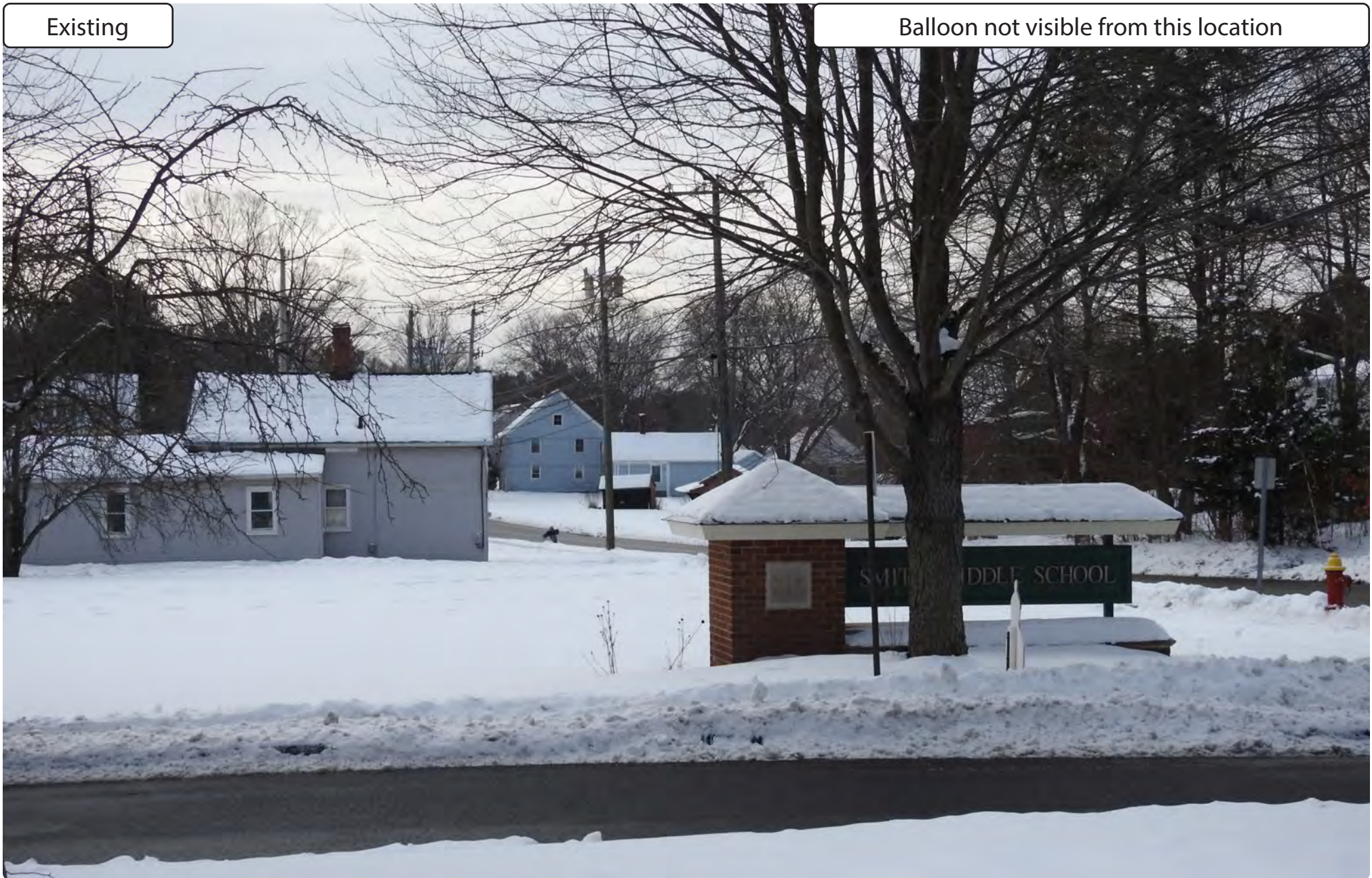


Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
12	Addison Rd	41.72308	-72.58002	0.58 Miles	North	184	Not Visible

Site: CT0114 Glastonbury

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Existing

Balloon not visible from this location



Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
13	Eastern Blvd	41.72247	-72.58536	0.59 Miles	North-West	156	Not Visible

Site: CT0114 Glastonbury

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Existing

Balloon not visible from this location



Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
14	Western Blvd	41.72139	-72.58853	0.61 Miles	North-West	139	Not Visible

Site: CT0114 Glastonbury

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Existing

Balloon not visible from this location

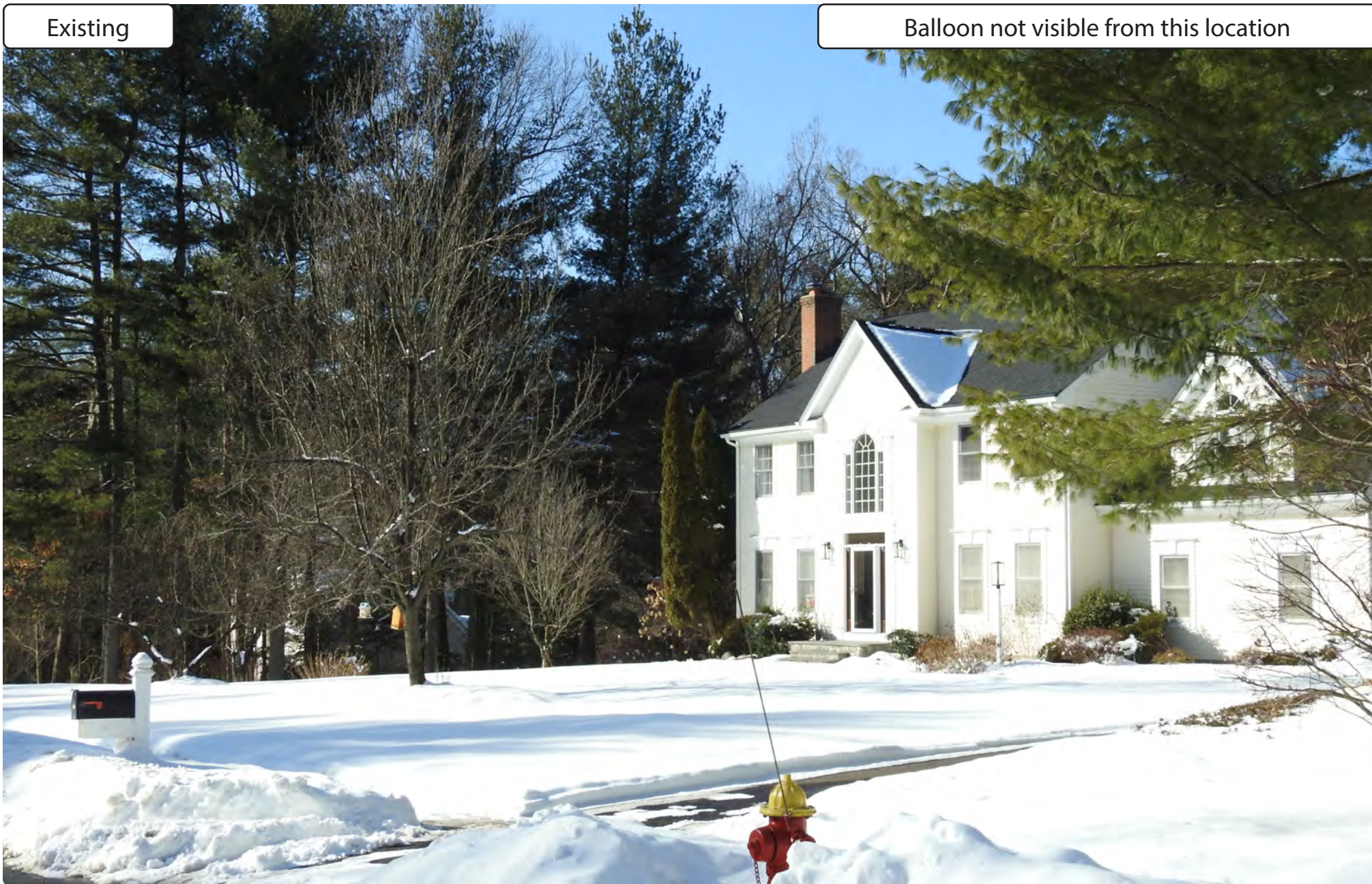


Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
15	Warner Ct	41.70843	-72.57189	0.63 Miles	South-East	313	Not Visible

Site: CT0114 Glastonbury

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Existing

Balloon not visible from this location



Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
16	Chase Hollow Ln	41.71252	-72.56878	0.64 Miles	East	283	Not Visible

Site: CT0114 Glastonbury

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Existing

Balloon not visible from this location



Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
17	Lenox Dr	41.70515	-72.57926	0.66 Miles	South	353	Not Visible

Site: CT0114 Glastonbury

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Existing

Balloon not visible from this location



Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
18	Oak St	41.71058	-72.59246	0.67 Miles	South-West	65	Not Visible

Site: CT0114 Glastonbury

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Existing

Balloon not visible from this location



Photo #	Approximate Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
19	National Dr	41.71895 -72.5939	0.74 Miles	North-West	114	Not Visible

Site: CT0114 Glastonbury

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Existing

Balloon not visible from this location



Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
20	Wadsworth St	41.70347	-72.58163	0.77 Miles	South	3	Not Visible

Site: CT0114 Glastonbury

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Existing

Balloon not visible from this location



Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
21	Kreiger Ln	41.70678	-72.59174	0.79 Miles	South-West	46	Not Visible

Site: CT0114 Glastonbury

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Existing

Balloon not visible from this location



Photo #	Approximate Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
22	Oakwood Dr	41.70974 -72.56663	0.8 Miles	South-East	295	Not Visible

Site: CT0114 Glastonbury

Photo Simulations are for demonstration purposes only. It should not be used in any other fashion or with any other intent. The accuracy of the resulting data is not guaranteed and is not for redistribution



Existing

Balloon not visible from this location



Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
23	Rolling Hills Dr	41.70628	-72.56968	0.81 Miles	South-East	315	Not Visible

Site: CT0114 Glastonbury

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Existing

Balloon not visible from this location



Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
24	Heywood Dr	41.72645	-72.58024	0.82 Miles	North	182	Not Visible

Site: CT0114 Glastonbury

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Existing

Balloon not visible from this location



Photo #	Approximate Location	Gps Coordinates		Distance to site	Orientation	Bearing to site	Visibility
25	Firethorn Dr	41.72516	-72.58804	0.82 Miles	North-West	153	Not Visible

Site: CT0114 Glastonbury

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Existing

Balloon not visible from this location



Photo #	Approximate Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
26	Hebron Ave	41.71836 -72.5654	0.83 Miles	East	252	Not Visible

Site: CT0114 Glastonbury

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Existing

Balloon not visible from this location



Photo #	Approximate Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
27	Neipsic Rd	41.70225 -72.57417	0.92 Miles	South	338	Not Visible

Site: CT0114 Glastonbury

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Existing

Balloon not visible from this location



Photo #	Approximate Location	Gps Coordinates	Distance to site	Orientation	Bearing to site	Visibility
28	New London Turnpike	41.70437 -72.59237	0.93 Miles	South-West	40	Not Visible

Site: CT0114 Glastonbury

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