

# Project Need

#### Problem

Existing radio system is analog (rebroadcast) Not suited for county-wide communication

#### Solution

Move to simulcast system covers a wider geographic area with broadcasts from multiple transmitter sites and is frequency efficient

#### Problem

Critical Coverage Gaps

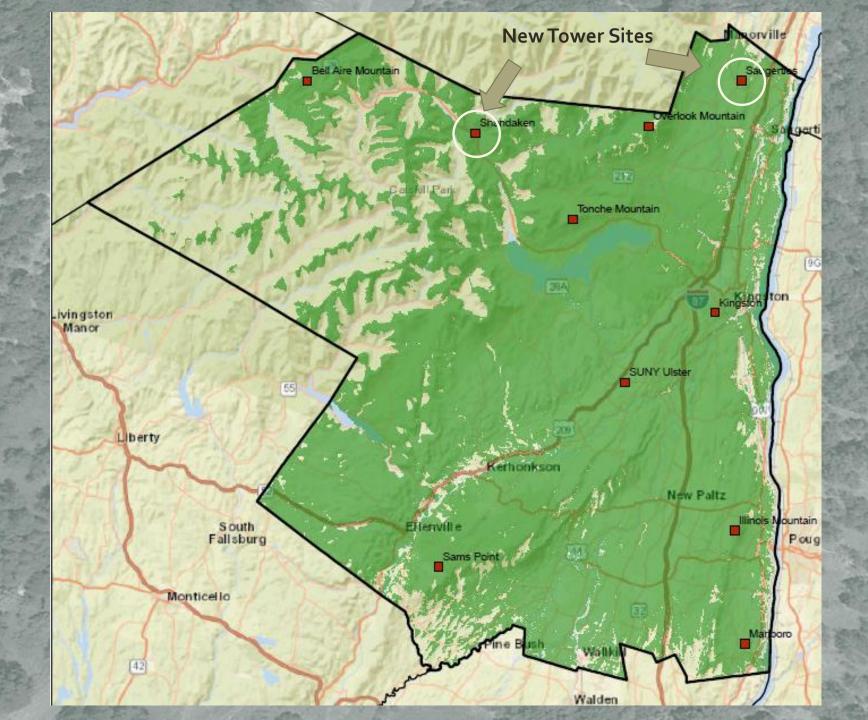
#### Solution

Close Coverage gaps with additional towers and create backhaul redundancy

Project Need Coverage Analysis

VHF Simulcast Portable Outbound 95% Coverage

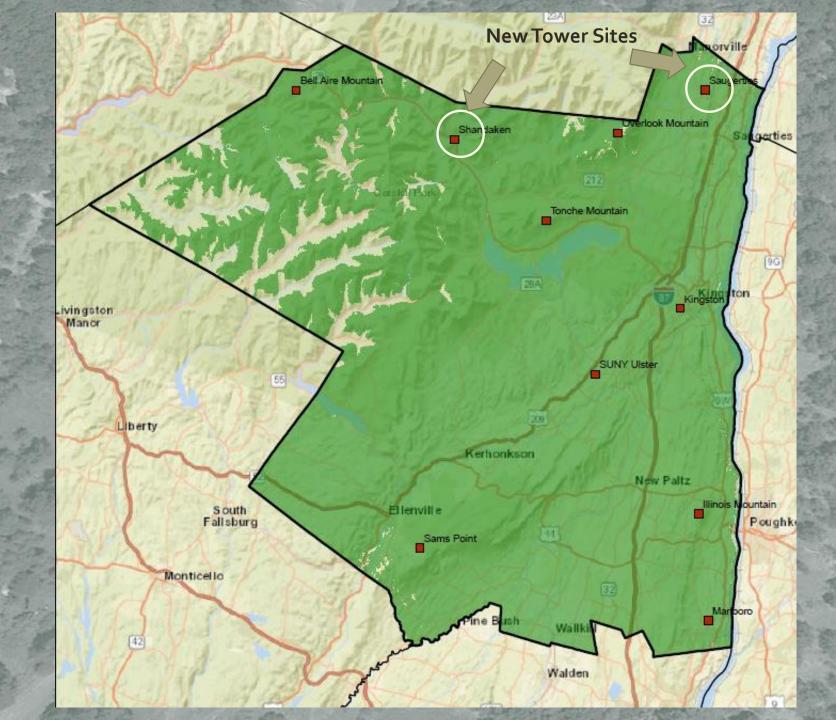
With new tower sites



Project Need Coverage Analysis

VHF Simulcast Mobile Outbound 95% Coverage

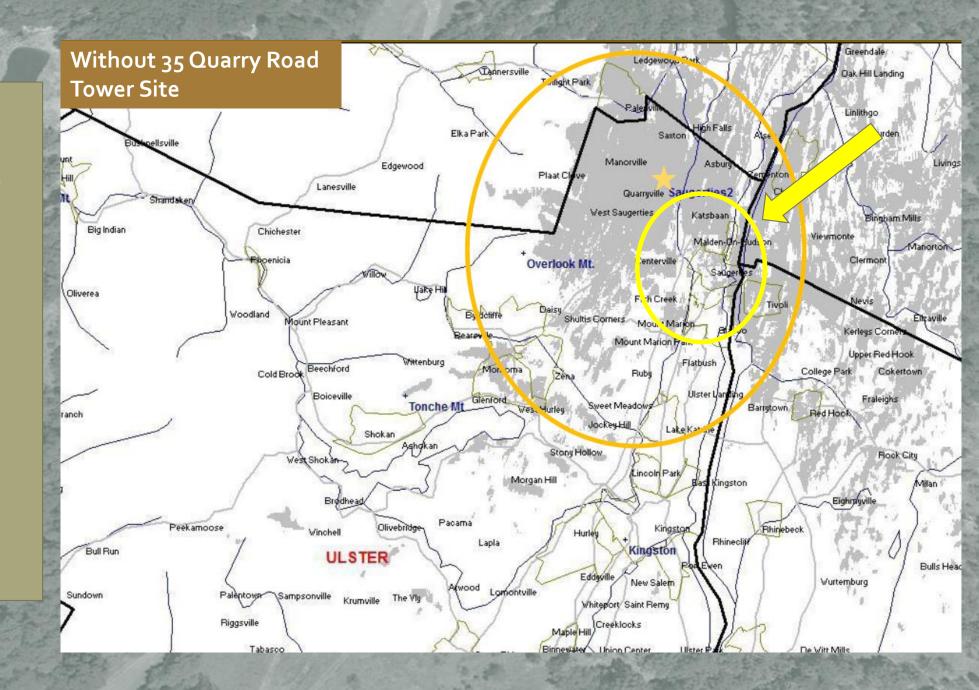
With new tower sites



## Project Need Coverage Analysis

#### Problem

Critical coverage gap with VHF simulcast in the Saugerties area without a new tower (note Village)

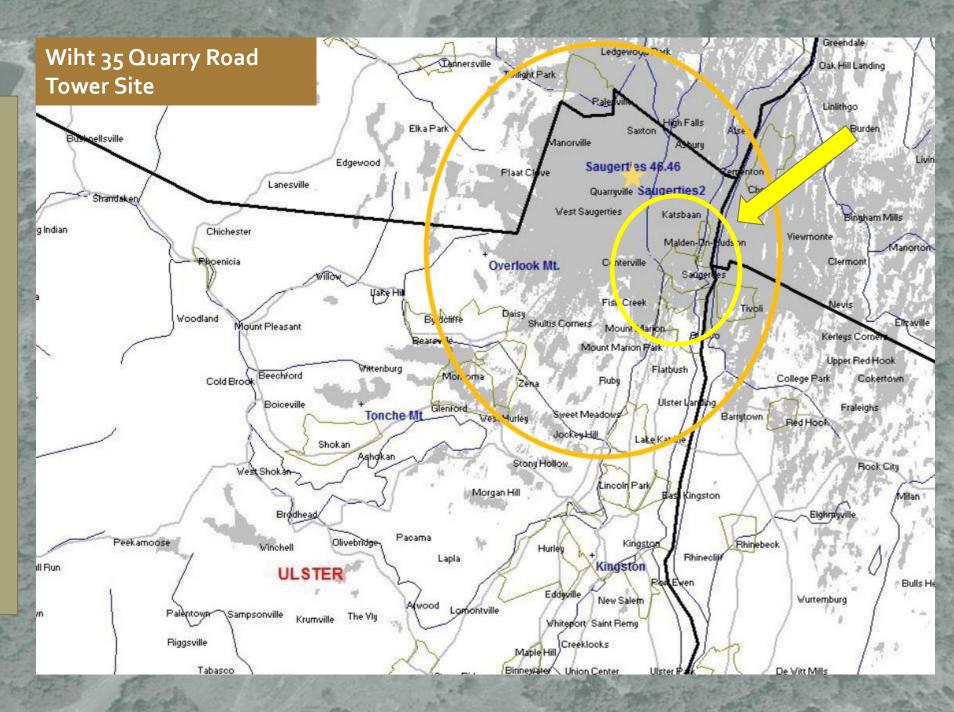


## Project Need Coverage Analysis

#### Solution

Close gap with additional tower in the Saugerties Area (note improved coverage in Village and Rt. 32 Corridor)

With 35 Quarry Road





### **Environment**

SEQRA Short EAF

Viewshed Analysis

Photo Simulations

Historic and Archeological

Report

## Design

Site Plan

Geotechnical Analysis

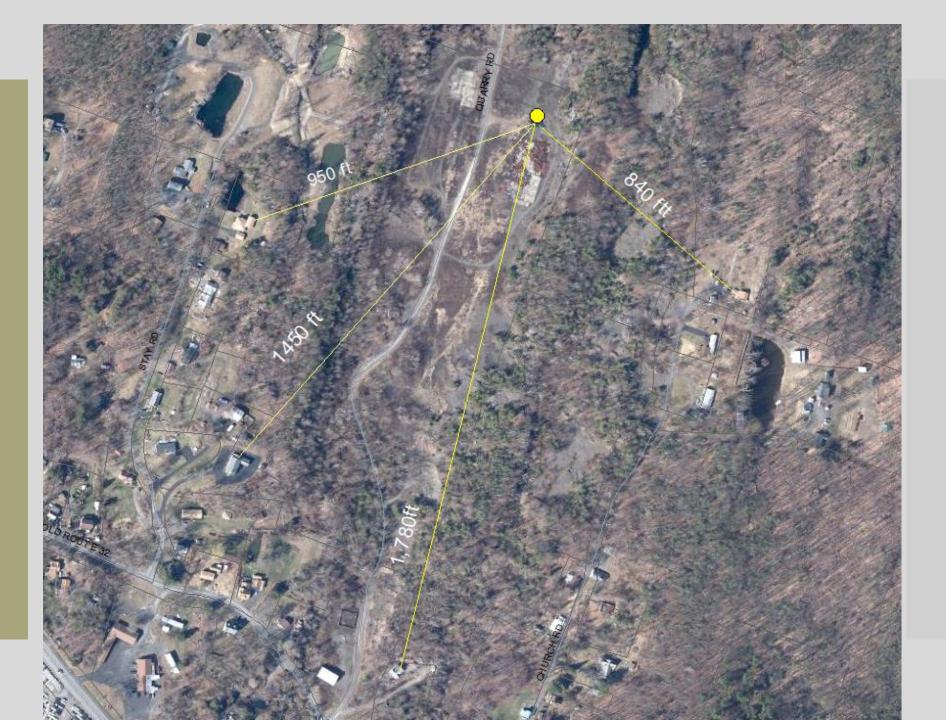
Structural Tower Needs

Proposed Tower Site 35 Quarry Road

Current Studies

# Viewshed Analysis

 Site Context – Distances to adjoining structures

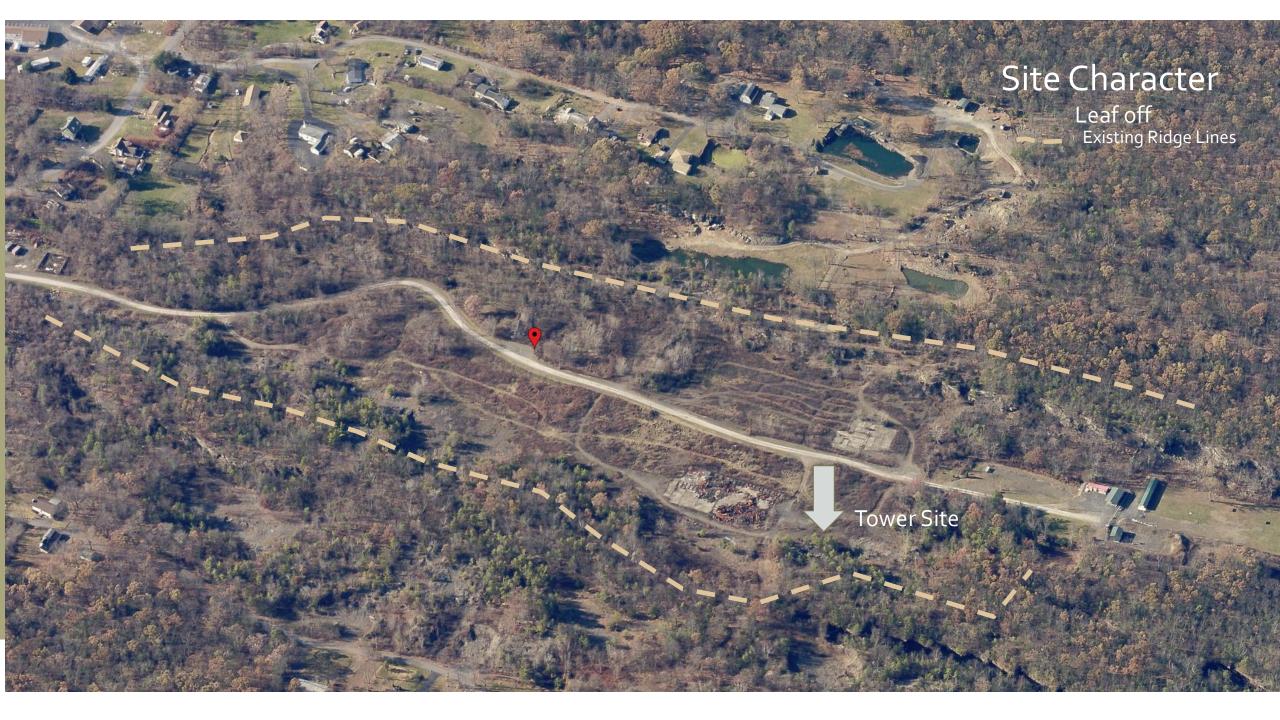


## Viewshed Analysis

Site Context –

The tower site sits in a bowl surrounded by higher elevation s on all sides except to the south. These ridges and vegetation provide effective screening for the tower's lower sections and in many instances will block views completely during leaf on

The site surrounding site character is low density residential with mixed commercial and highway businesses









#### VIEW EAST ground level



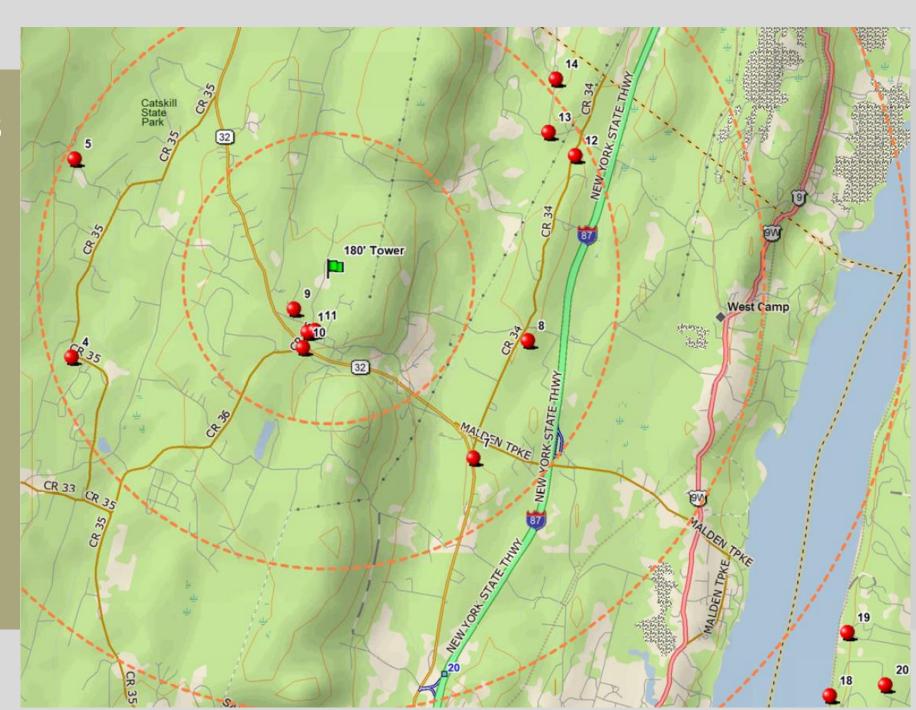






## Viewshed Analysis

- Identified locations in coordination with Planning Board and in accordance with NYSDEC guidance includes sensitive sites and road views
- Balloon test conducted on July 18,2020
- Only 2 locations of potential visibility of the sites chosen both close to the access road to the site



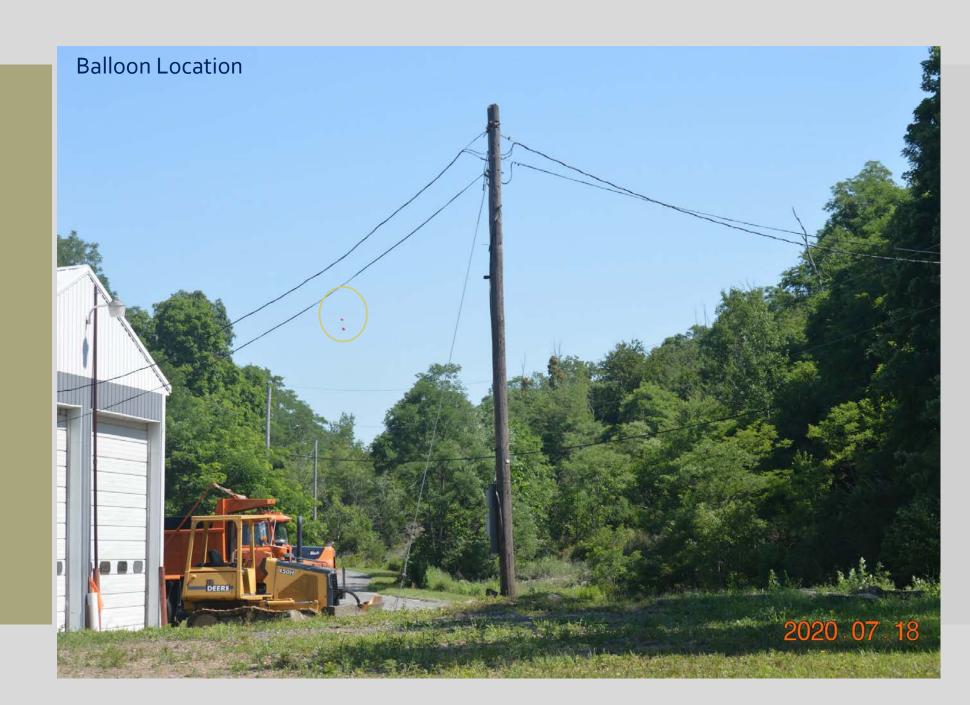
- Photo # 10 located at the north intersection of Harry Well Road and NYS Rt. 32
- This is a 4 way offset intersection
- The Tower site is approximately 2,600 ft. from the location of the photo



- Approx. 2/3 of the Tower is visible from this location
- Visibility from NYS Rt 32 Is limited to quick passing views given the angle of the views.
- The approach views are blocked by vegetation.
- The view from the intersection of Harry Wells Road west side intersection with Rt 32 is similar to the one shown..



- Photo # 1 located at the entrance to Quarry Road.
- This is also the site entrance and serves the
- County owned property, a sports mans club, a single family residence, and a vacant property
- Photo taken on July 18<sup>th</sup>
- The tower site Is
- approximately 1,900 ft.
   From the location of the photo



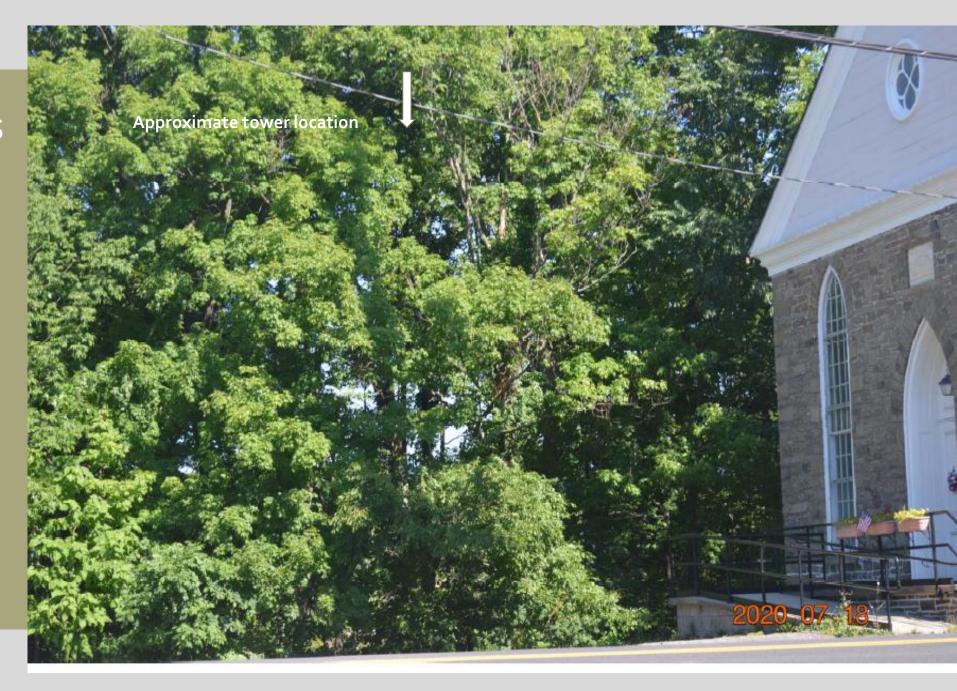
- Approximately ½ of the tower is visible from tis location
- The visibility from old Rt.
   32 is similar with more of the tower blocked by buildings and vegetation buildings or vegetation
- In each case visibility is brief for road users given the angle of the views.



## Viewshed Analysis

#### Site Context

- Quarryville Methodist Church views blocked by vegetation
- Upper portion of the Tower will be visible with leaf off



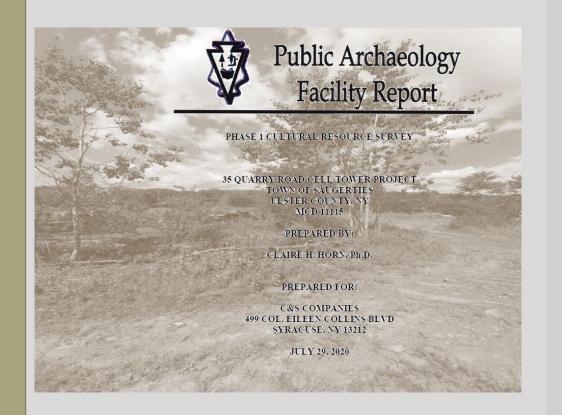
#### SEQRA & NEPA

#### Historic and Cultural Resources

- No evidence of archeological sites or standing historic structures
- No National Register Listed or Eligible properties within o.o5 miles
- Recommendation
- The proposed project will not have a significant impact.
- SHPO has concurred.
- THPO coordination on going

#### Other State and Federal

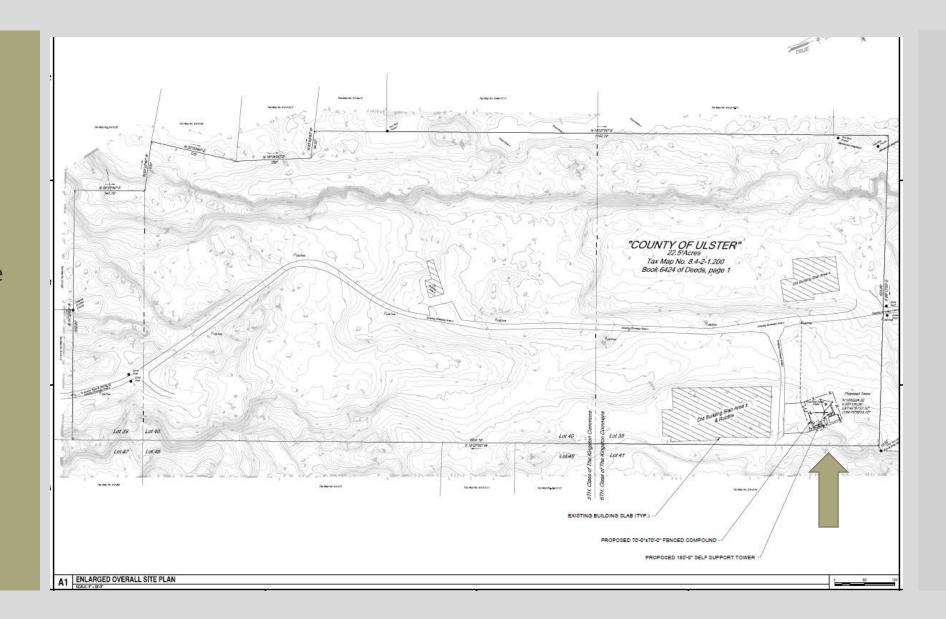
- No endangered species on-site
- No federal or state designated wetlands
- A SWPPP for disturbance over 1 ac will not be required



## DESIGN

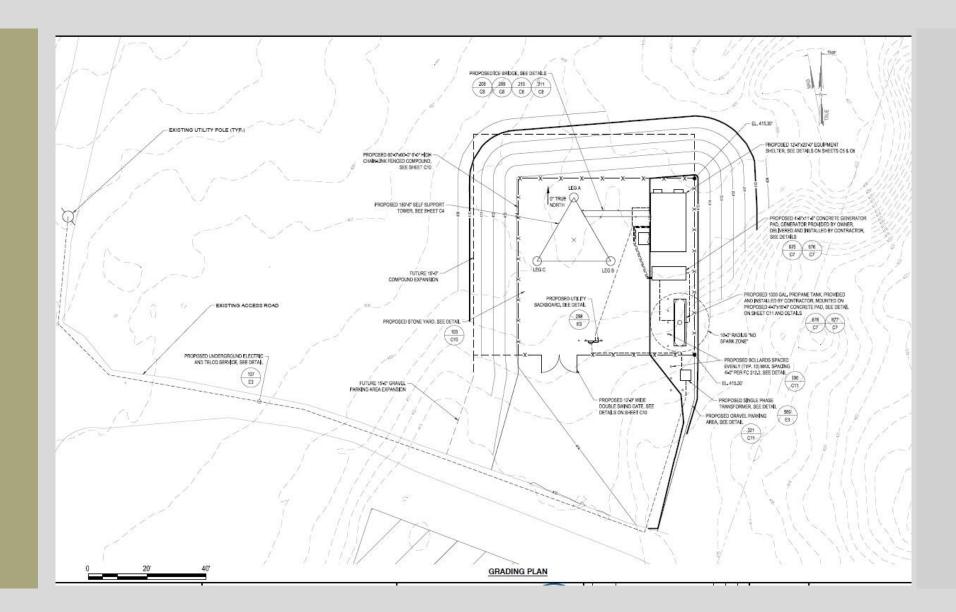
#### **Overall Site Plan**

- ✓ Facility located in the northeast corner of the site on existing disturbed area
- ✓ Utilize existing access road
- ✓ Utilize existing electric poles into the site
- ✓ No clearing necessary
- ✓ Site disturbance less the 1acre



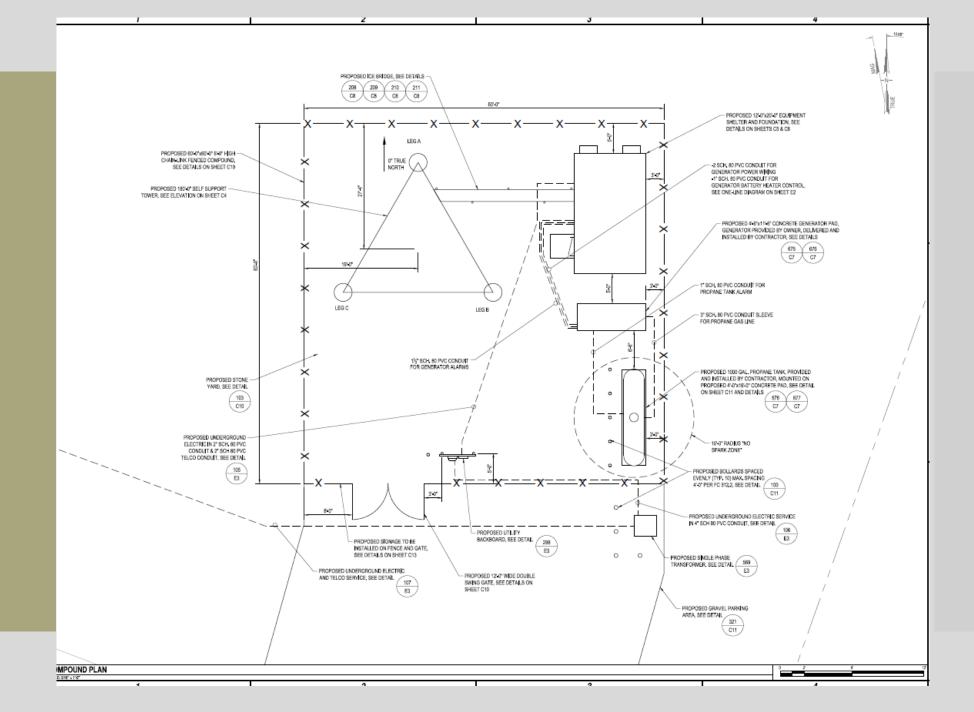
## DESIGN

✓ Site Grading Plan
< 1 acre of disturbed area



## DESIGN

- ✓ Enclosed Area Plan includes:
  - Tower
  - Equipment shelter
  - Generator
  - Propane tank



# County & Local Zoning

# Balance of Public Interest Test

- 1. The nature and scope of the instrumentality seeking immunity
- 2. The encroaching government's legislative grant of authority;
- 3. The kind of function or land use involved;
- 4. The effect local land use regulation would have upon the enterprise concerned;
- 5. Alternative locations for the facility in less restrictive zoning areas;
- 6. The impact upon legitimate local interests;
- 7. Alternative methods of providing the proposed improvement;
- 8. The extent of the public interest to be served by the improvements; and
- 9. Intergovernmental participation in the project development process and an opportunity to be heard.

#### **BUILD**

#### Project Schedule

December 2020: Complete Environmental and Design

Spring of 2021: Begin

Construction

Fall of 2121: Operational



# Ulster County Quarry Road Communications Tower



Status Date: 8/18/2020

	Task Name	Month	1Month 2	Mont	h 3 Mon	th 4M	onth 5	Month	6Month	7Month	8 Month !	9/Ionth 1	Month 1	Month	1Month 13	Month 14Mo	onth
1	Quarry Road Communications Tower	•						Qua	rry Road	Commu	nications	Tower					
2	Permitting / Visual Impacts/ Public Meetings	Perm	itting / V	isual I	pacts	/ Publi	Mee	etings									
3	Design	<b></b>		D	sign			1									
1	Bidding							Bi	dding								
5	Contractor Equipment Procurement									Contracto	or Equipm	nent Pro	cureme	nt			
5	Construction			2.5									Cons	truction		h	
7	System Acceptance			37.0 2.7											System	Acceptanc	æ
3	Project Closeout				1 2 2			e e					O		Pr	oject Close	eout
9	Project Complete				100								2		Project	Complete	





**Submit Comments to:** 

Steven Peterson: spet@co.ulster.ny.us

or

Dennis Doyle: ddoy@co.ulster.ny.us

By mail:

Ulster County Planning Department Box 1800 Kingston NY 12402

To view Project Documents visit the Project Web Page: https://ulstercountyny.gov/pstower