

# Young / Sommer LLC

ATTORNEYS AT LAW

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September 14, 2022

Via Federal Express

Hon. Regina M. Taylor  
Village Clerk  
Village of Highland Falls  
303 Main St  
Highland Falls, NY 10928

RE: Verizon Wireless Proposed Lease – Village Hall, 303 Main Street

Dear: Ms. Taylor

Our office represents Verizon Wireless of the East LP d/b/a Verizon Wireless (“Verizon Wireless”) in connection with a proposal to install and operate a new personal wireless service facility on the existing building owned by the Village of Highland Falls located at 303 Main Street (“Village Hall”).

The proposed facility includes the installation of a new twenty-six-foot (26’) self-support, roof-mounted tower with related antennas, equipment and cables to be located on the roof of the Village Hall building. The proposed facility is needed to resolve significant coverage gaps and substantial capacity issues within this part of the Village.

In August, 2021, the Village Board of Trustees approved a lease agreement authorizing Verizon Wireless to lease a portion of the existing roof for its use in providing wireless service. Since that time, certain changes have occurred that necessitated Verizon Wireless to redesign a portion of the facility. The redesign primarily involves relocating the equipment previously proposed to be located on the ground adjacent to the existing building to the roof.

A copy of the current site plans illustrating the redesign is enclosed.

In light of the proposed redesign, we believe that some minor changes to the previously approved lease agreement should be revised to reflect the fact that the ground equipment will

now be located on the roof of the Village Hall building. I have enclosed a proposed redlined version of the previously approved lease agreement with suggested changes which reflect the current design changes, including the revised sketch to be included in Exhibit A.

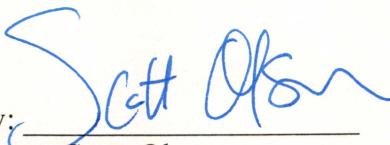
To assist the Board of Trustees with its review, Verizon Wireless has enclosed the following additional materials:

1. Completed Short Environmental Assessment Form;
2. Visual Resource Evaluation prepared by Tectonic Engineering;
3. Section 106 Notification of SHPO/THPO concurrence email which confirms that the proposed facility will not adversely affect any historic properties in the area of potential effects;
4. Site Compliance Report prepared by SiteSafe which confirms that the proposed facility will be fully compliant with existing FCC emission standards; and
5. Revised plan set prepared by Tectonic Engineering.

The proposed personal wireless service facility will allow Verizon Wireless to resolve significant gaps in service in the southern portions of the Village. The proposed facility will also resolve substantial network capacity issues associated with the existing Bear Mountain and West Point Campus Verizon Wireless sites. Once completed, this site, along with the other two sites proposed in the Village, wireless service provided by Verizon Wireless will be significantly improved.

Please kindly advise of any questions.

Very truly yours,  
YOUNG SOMMER, LLC

By:   
Scott Olson

Encl.

C: Alyse Terhune, Esq. (Attorney for Village of Highland Falls -via email)

**1**

# Short Environmental Assessment Form

## Part 1 - Project Information

### Instructions for Completing

**Part 1 – Project Information.** The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

<b>Part 1 – Project and Sponsor Information</b>			
Name of Action or Project: Project #20202142274 - Location Code #636584 - Schneider Ave			
Project Location (describe, and attach a location map): 303 Main Street, Highland Falls, NY 12928			
Brief Description of Proposed Action: Verizon Wireless (Verizon) is proposing the construction of a 26 foot stub tower, to be located on the existing Village Hall structure. A proposed 20 foot wide access easement off Schneider Avenue running south towards the proposed Site. Verizon is further proposing to run utilities up the side of the building to the roof. Access to the Site is proposed via the existing paved parking area.			
Name of Applicant or Sponsor: Kathy Pomponio - Verizon Wireless of the East LP d/b/a Verizon Wireless		Telephone: 585-321-5435 E-Mail: Kathy.Pomponio@verizonwireless.com	
Address: 275 John Street, Suite #100			
City/PO: West Henrietta	State: New York	Zip Code: 14586	
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.			NO <input type="checkbox"/>
			YES <input type="checkbox"/>
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval:			NO <input type="checkbox"/>
			YES <input checked="" type="checkbox"/>
3. a. Total acreage of the site of the proposed action? _____ 0.02 acres			
b. Total acreage to be physically disturbed? _____ 0.02 acres			
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ 0.11 acres			
4. Check all land uses that occur on, are adjoining or near the proposed action:			
5. <input checked="" type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Residential (suburban)			
<input type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other(Specify):			
<input type="checkbox"/> Parkland			

5. Is the proposed action, a. A permitted use under the zoning regulations? b. Consistent with the adopted comprehensive plan?	NO	YES	N/A
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	NO	YES	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. a. Will the proposed action result in a substantial increase in traffic above present levels? b. Are public transportation services available at or near the site of the proposed action? c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: A new stub tower will be constructed on the existing facility; this tower will connect to the existing utilities on the site. _____	NO	YES	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?  b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	NO	YES	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	



# EAF Mapper Summary Report

Friday, July 30, 2021 3:12 PM

 **Disclaimer:** The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites]	No
Part 1 / Question 12b [Archeological Sites]	Yes
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	No
Part 1 / Question 15 [Threatened or Endangered Animal]	Yes
Part 1 / Question 15 [Threatened or Endangered Animal - Name]	Northern Long-eared Bat, Atlantic Sturgeon, Shortnose Sturgeon
Part 1 / Question 16 [100 Year Flood Plain]	No
Part 1 / Question 20 [Remediation Site]	Yes

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# **VISUAL RESOURCE EVALUATION**

## **PROPOSED 26' TALL TELECOMMUNICATIONS STRUCTURE ON EXISTING BUILDING**

**Schneider Ave  
303 Main St  
Village of Highland Falls  
Orange County  
New York, 10928**

Submitted by:

**verizon** 

1275 John Street, Suite 100  
West Henrietta, NY 14586

Prepared by:

**Tectonic** 

PRACTICAL SOLUTIONS. EXCEPTIONAL SERVICE.

36 British American Blvd., Suite 101  
Latham, New York 12110  
518-783-1630  
518-783-1544 FAX

**April 26, 2022**

## **VISUAL RESOURCE EVALUATION**

Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C., was contracted by Verizon Wireless to conduct a “Visual Resource Evaluation” to determine which areas within the Village of Highland Falls will contain views of the proposed 26 foot tall wireless telecommunications structure on existing building.

### **Setting:**

The proposed site is located at 303 Main St in the Village of Highland Falls, Orange County, New York. This is near the center of the Village, subject building is the Village Hall building. The surrounding land is primarily residential and small businesses and approximately 1200-feet to the east is the Hudson River. Within the study area the topography is fairly flat, ranging in elevation from 145' +/- AMSL (Above Mean Sea Level) to 275' +/- AMSL. The study area is generally comprised of 1-3 story buildings with limited areas of tree cover. The field study for this visual resource evaluation was conducted in the mid-winter season during 100% leaf off conditions.

### **Methodology:**

On Wednesday, January 5, 2022, Tectonic conducted a field investigation for the purpose of evaluating the viewshed associated with the proposed installation of the 26 foot tower (on the low roof of the existing Village Hall building). Conditions were mostly cloudy with a temperature of approximately 32°, and with wind speeds of approximately 5-8 mph. The study area consisted of a 1/4 (.25) mile radius from the project site.

The methodology utilized during this field investigation is referred to as a “balloon test.” The height of the proposed structure was simulated by floating a 3' diameter, helium-filled weather balloon at 52 feet above ground level (AGL). The balloon provided reference points for height as well as location and also provides a known dimension that later aids in the production of photo simulations.

Prior to the field study, Tectonic assessed the potential visibility in the study area by creating desktop viewshed maps using ESRI ArcGIS Desktop 10.8 in conjunction with a USGS 7.5 Minute Series Topographic Quadrangles Map and aerial base maps and street maps. Two viewshed maps were created – one delineating areas where visibility would be blocked by topography only, and another delineating areas where visibility would be blocked by topography, vegetation, and structures.

Tectonic drove the study area to confirm the potential visibility of the structure. During the “in field” review, the participants conducted an analysis to determine those areas from which views of the structure may be “visible.” The resulting data from this analysis was reviewed and referenced on the “Photo Log & Viewshed Map” attached. The color on the map delineate which areas have a line of sight to the structure. The viewshed analysis resulted in the discovery that the proposed structure would be visible from a few locations within the Village. Specifically, the structure will be visible from points along a few public Rights of Way; Catherine St, West St, West Point Highway, Main St, Liberty St, Schneider Ave, Mountain Ave, Church St, Muller Ave, Drew Ave, Main St, and Tobins Ln.

Photographs were taken from various vantage points within the study area to document the actual view towards the proposed structure, as well as the general character of the viewshed. Each photograph

attached includes a brief description of the location and orientation from which it was taken, and the photo number corresponds to the key number on the viewshed map.

**Process:**

Photographs of the weather balloon from the viewpoints noted were taken with a Nikon D5300 Digital 24 megapixel camera using a 55mm focal length lens to mimic the view as observed from the human eye. A 3-foot diameter red helium filled balloon was floated to a height of 52'.

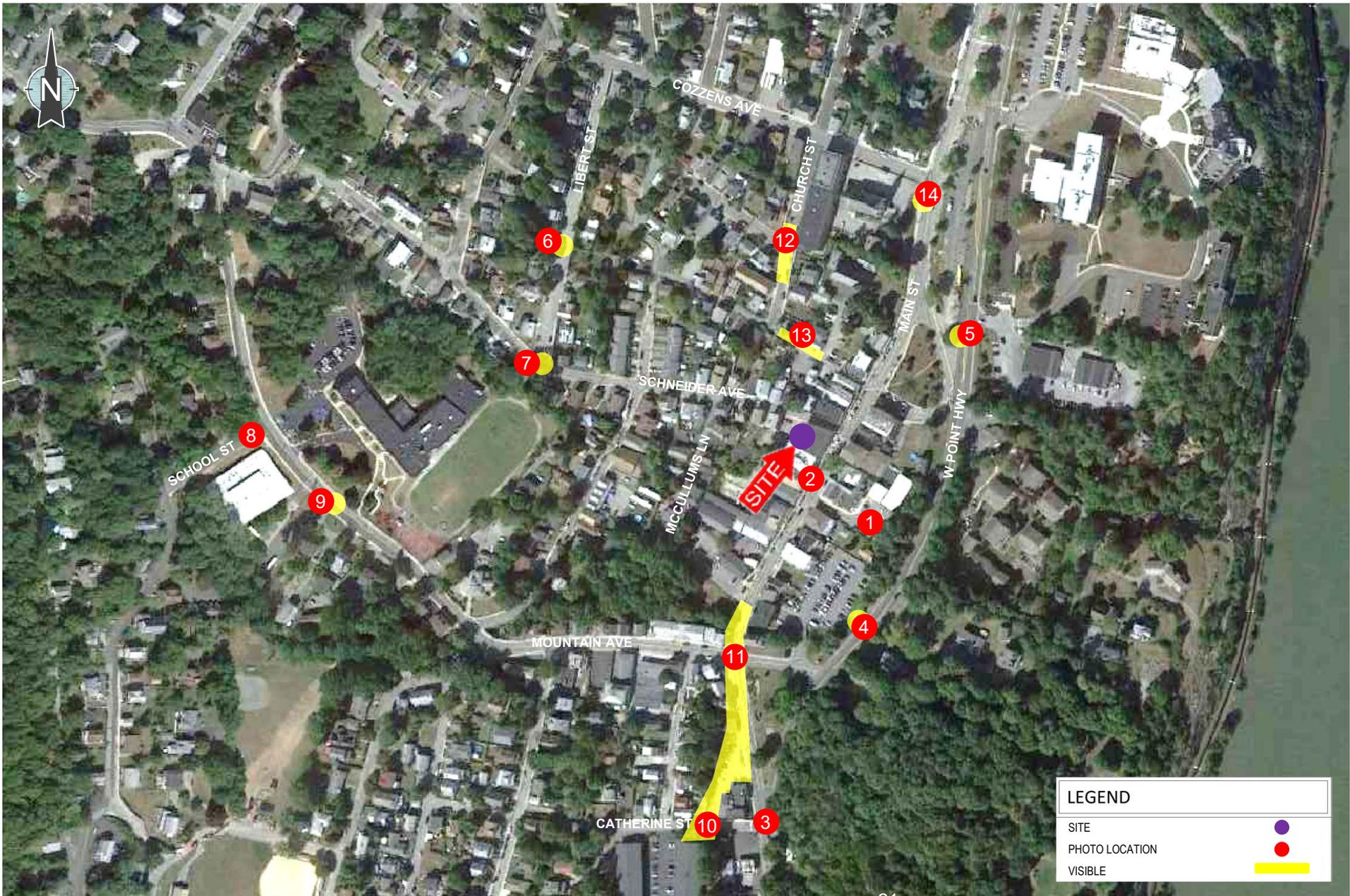
In order to analyze the potential visual impacts of the proposed structure, Tectonic took photographs of the balloon from locations within the search area for the purpose of preparing simulations of the proposed structure. Photographs for which there is a corresponding simulated view (#5, 11, 13) of the proposed structure were produced by first photographing an existing similar type structure, then photographing the view towards the proposed site where the marker balloon was set to a height of 52' AGL. The digital images of the balloons and similar structure were then merged and scaled through the use of the image editing software, "Adobe Photoshop CS5." With this process, the structure is scaled to the correct height and width by scaling the similar type structure using measurements from the marker balloon. The similar type structure used has an antenna array that spans two feet (2'). By measuring the balloon width of 3', one can determine the proper width of the antenna array by multiplying the balloon width by a factor of 2. The composite is printed out directly on a color printer, producing the final image.

**Conclusion:**

The Viewshed Analysis Map presents a conservative delineation of the viewshed within the study area and along public roadways and parks. The photo slides have been prepared per the methodology described above and provide a general depiction of the appearance of the structure from the photographed viewpoints.

Sincerely,  
TECTONIC ENGINEERING CONSULTANTS, GEOLOGISTS & LAND SURVEYORS, D.P.C.

Steven M. Matthews, PE  
Director of Engineering



LEGEND	
SITE	
PHOTO LOCATION	
VISIBLE	



































**3**

**From:** towernotifyinfo@fcc.gov  
**Sent:** Saturday, July 23, 2022 1:45 PM  
**To:** Eisele, Kathy A  
**Subject:** Section 106 Notification of SHPO/THPO Concurrence- Email ID #7252162

This is to notify you that the Lead SHPO/THPO has concurred with the following filing:

Date of Action: 07/23/2022

Direct Effect: No Adverse Effect on Historic Properties in APE

Visual Effect: No Adverse Effect on Historic Properties in APE

Comment Text: NYSHPO concurs with recommended finding. Reviewed by Sloane Bullough.

File Number: 0010111796

TCNS Number: 238776

Purpose: Collocation Submission Packet

Has the Communications Tower or Non-Tower Structure been the subject of SHPO/THPO review? No

Notification Date: 7AM EST 07/01/2022

Applicant: Verizon Wireless

Consultant: Terracon Consultants

Positive Train Control Filing Subject to Expedited Treatment Under Program Comment: No

Site Name: Schneider Avenue

Site Address: 303 Main Street

Detailed Description of Project:

Site Coordinates: 41-22-14.3 N, 73-57-55.8 W

City: Highland Falls

County: ORANGE

State:NY

Lead SHPO/THPO: New York State Historic Preservation Office

NOTICE OF FRAUDULENT USE OF SYSTEM, ABUSE OF PASSWORD AND RELATED MISUSE

Use of the Section 106 system is intended to facilitate consultation under Section 106 of the National Historic Preservation Act and may contain information that is confidential, privileged or otherwise protected from disclosure under applicable laws. Any person having access to Section 106 information shall use it only for its intended purpose. Appropriate action will be taken with respect to any misuse of the system.

**4**



**SiteSafe**  
A *QUALTEK* Company

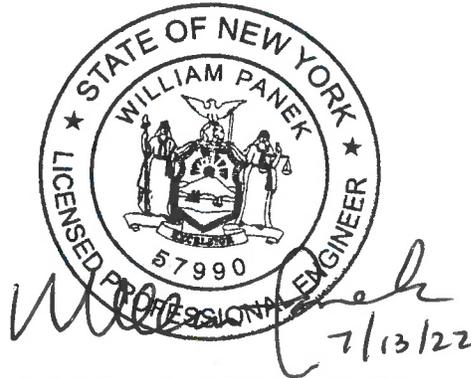
## Verizon Wireless Site Compliance Report

**Site Name: Schneider Ave**  
**Site Address: 303 Main Street**  
**Highland Falls, NY 10928**  
**Orange County**  
**Structure Type: Tower on Rooftop**

Report generated on: July 11, 2022  
Report by: Benjamin Schnable  
Customer Contact: Michael Crosby

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**Verizon Wireless will be compliant with the  
FCC Rules and Regulations in all publicly  
accessible areas.**



Site Safe, LLC  
8618 Westwood Center Drive, Suite 315, Vienna, VA 22182  
703.276.1100 • 703.276.1169 fax  
info@sitesafe.com • www.sitesafe.com



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## 1 Executive Summary

Verizon Wireless has contracted with Site Safe, LLC (Sitesafe), an independent radiofrequency (RF) regulatory and engineering consulting firm, to determine if the proposed telecommunications facility is in compliance with the Federal Communications Commission (FCC) Rules and Regulations for RF emissions (see Appendix A of this report for further explanation of the FCC Rules and Regulations). This document and the conclusions herein are based on the information provided by representatives of Verizon Wireless which is assumed to be true and correct.

Verizon Wireless is proposing to install (6) multi-band antennas, (6) dual-band remote radio heads and (6) single-band remote radio heads at the 50' level of a proposed rooftop mounted tower that will stand 52.3' above ground level (15.5' above the main roof level).

The analysis evaluates the telecommunications facility with respect to the General Public maximum permissible exposure (MPE) limits ("General Public" is also referred to as "Uncontrolled Environment"; see Appendix A for further explanation of this classification). Sitesafe has taken into consideration the existing/proposed Verizon Wireless antenna system as well as any other collocated antenna systems at the subject location.

Based on the analysis, Sitesafe has determined that:

**Verizon Wireless will comply** in all publicly accessible areas with the FCC Rules and Regulations governing human exposure to RF electromagnetic fields as described in 47 CFR § 1.1307(b) and 1.1310 in accordance with the methods for evaluating compliance contained in OET Bulletin 65. Additionally, Verizon Wireless will implement all required mitigation for its antennas including signage, barriers, restricted access, etc. where applicable to ensure compliance on the rooftop.

Furthermore, with the proposed Verizon Wireless antenna configuration in service, the composite exposure from this facility in all areas at ground level will be below 1% of the General Public MPE limit, or over 100 times less than the maximum allowed exposure in publicly accessible areas.

## 2 Analysis

In this analysis, Sitesafe has taken into consideration the existing/proposed Verizon Wireless antenna system as well as any other collocated antenna systems at the subject location. All existing and proposed licensees are listed in the antenna inventory table in Section 3 of this report. If specific antenna and operating parameter information for the other collocated licensees was not provided, typical assumptions were made based on Sitesafe experience and/or any available information.

Using this data, software modeling was performed for all transmitting antennas located at the site. Sitesafe has assumed a 100% duty cycle and maximum radiated power. The site has been modeled with these assumptions to determine the maximum potential RF energy density. Sitesafe believes this to be a worst-case analysis based on the best available data.

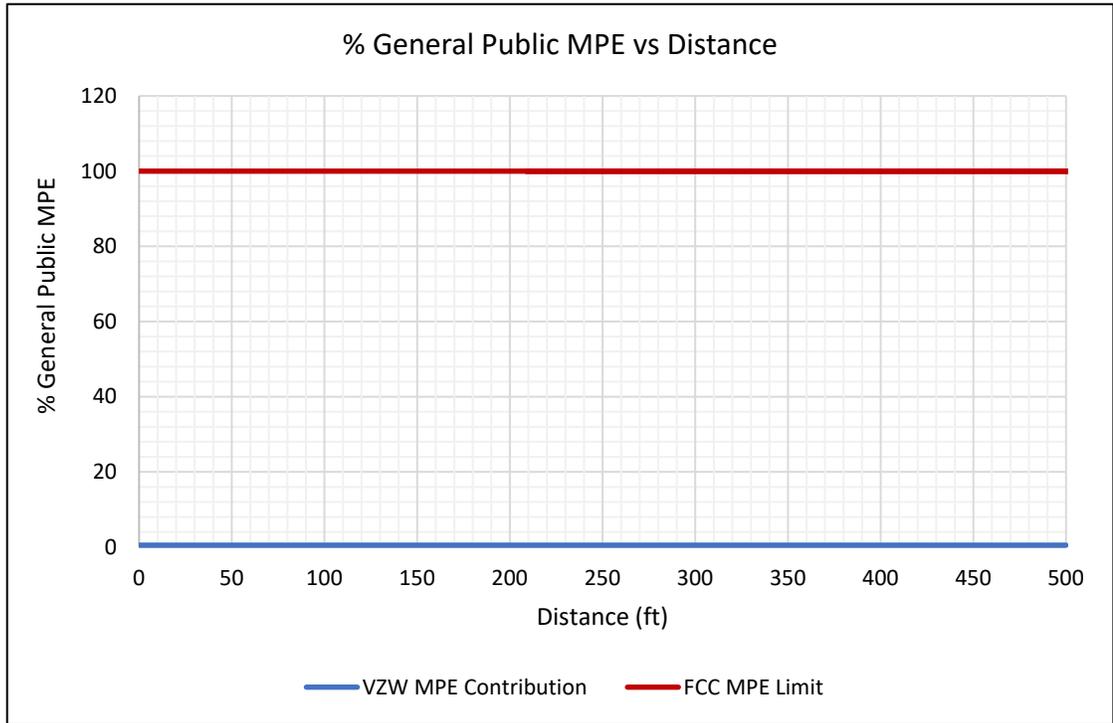
The power density calculations performed by the software tool use FCC prescribed methodologies as contained in OET Bulletin 65, which was compiled by the FCC to provide assistance in evaluating compliance with FCC guidelines for human exposure to electromagnetic fields.

As stated in Section 1, based on this analysis, the calculated ground level exposure from the Verizon Wireless antenna system alone as well as the composite exposure from all existing/proposed licensees will be below 1% of the General Public MPE limit.

Keep in mind that the FCC did not arbitrarily establish their own standards but rather adopted the recommendations of national and international organizations such as the National Council on Radiation Protection and Measurements (NCRP), the American National Standards Institute (ANSI) and the Institute of Electrical and Electronics Engineers (IEEE). These recommendations were developed by expert scientists and engineers following extensive evaluation of the potential biological effects from RF exposure. The FCC MPE limits are based on thresholds for known adverse effects, and they were designed to provide a substantial margin of safety. There is a safety factor of 50 built into the General Public MPE limits, and the predicted Verizon Wireless exposure levels are over 100 times below these very conservative limits.

In cases where such compliance exists, the subject of electromagnetic field safety is preempted by the Telecommunications Act of 1996, which states: "No state or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the (Federal Communication) Commission's regulations concerning such emissions."

Lastly, the graph below provides a visual depiction of the rather insignificant electromagnetic field exposure contribution from the Verizon Wireless antenna system at any distance from the base of the structure. This portrays how low the Verizon Wireless contribution is when compared to the General Public MPE limit.



### 3 Antenna Inventory

The following antenna inventory contains data provided by the customer and/or gathered by Sitesafe personnel which was used to perform the analysis:

Ant #	Operator	Antenna Make/Model	TX Freq (MHz)	Tech.	Az (Deg)	ERP (Watts)	AGL (ft)	MDT	EDT
1	VERIZON WIRELESS (Proposed)	Commscope NHHSS-65A-R2BT4	751	LTE	0	1188.75	50'	0	2
1	VERIZON WIRELESS (Proposed)	Commscope NHHSS-65A-R2BT4	850	LTE	0	588.93	50'	0	2
1	VERIZON WIRELESS (Proposed)	Commscope NHHSS-65A-R2BT4	850	5G	0	588.93	50'	0	2
1	VERIZON WIRELESS (Proposed)	Commscope NHHSS-65A-R2BT4	1900	LTE	0	4406.77	50'	0	1
1	VERIZON WIRELESS (Proposed)	Commscope NHHSS-65A-R2BT4	3550	LTE/CBRS	0	494.34	50'	0	4
2	VERIZON WIRELESS (Proposed)	Commscope NHHS4-65A-R3B	3700	5G	0	43167.43	50'	0	4
2	VERIZON WIRELESS (Proposed)	Commscope NHHS4-65A-R3B	751	LTE	0	1210.85	50'	0	2
2	VERIZON WIRELESS (Proposed)	Commscope NHHS4-65A-R3B	850	LTE	0	668.44	50'	0	2
2	VERIZON WIRELESS (Proposed)	Commscope NHHS4-65A-R3B	850	5G	0	668.44	50'	0	2
2	VERIZON WIRELESS (Proposed)	Commscope NHHS4-65A-R3B	2100	LTE/AWS1	0	4447.54	50'	0	1
3	VERIZON WIRELESS (Proposed)	Commscope NHHSS-65A-R2BT4	751	LTE	120	1188.75	50'	0	2
3	VERIZON WIRELESS (Proposed)	Commscope NHHSS-65A-R2BT4	850	LTE	120	588.93	50'	0	2
3	VERIZON WIRELESS (Proposed)	Commscope NHHSS-65A-R2BT4	850	5G	120	588.93	50'	0	2
3	VERIZON WIRELESS (Proposed)	Commscope NHHSS-65A-R2BT4	1900	LTE	120	4406.77	50'	0	1
3	VERIZON WIRELESS (Proposed)	Commscope NHHSS-65A-R2BT4	3550	LTE/CBRS	120	494.34	50'	0	4
4	VERIZON WIRELESS (Proposed)	Commscope NHHS4-65A-R3B	3700	5G	120	43167.43	50'	0	4
4	VERIZON WIRELESS (Proposed)	Commscope NHHS4-65A-R3B	850	LTE	120	668.44	50'	0	2
4	VERIZON WIRELESS (Proposed)	Commscope NHHS4-65A-R3B	850	5G	120	668.44	50'	0	2
4	VERIZON WIRELESS (Proposed)	Commscope NHHS4-65A-R3B	2100	LTE/AWS1	120	4447.54	50'	0	1
4	VERIZON WIRELESS (Proposed)	Commscope NHHS4-65A-R3B	751	LTE	120	1210.85	50'	0	2
5	VERIZON WIRELESS (Proposed)	Commscope NHHSS-65A-R2BT4	751	LTE	240	1188.75	50'	0	2
5	VERIZON WIRELESS (Proposed)	Commscope NHHSS-65A-R2BT4	850	LTE	240	588.93	50'	0	2

Ant #	Operator	Antenna Make/Model	TX Freq (MHz)	Tech.	Az (Deg)	ERP (Watts)	AGL (ft)	MDT	EDT
5	VERIZON WIRELESS (Proposed)	Commscope NHHSS-65A-R2BT4	850	5G	240	588.93	50'	0	2
5	VERIZON WIRELESS (Proposed)	Commscope NHHSS-65A-R2BT4	1900	LTE	240	4406.77	50'	0	1
5	VERIZON WIRELESS (Proposed)	Commscope NHHSS-65A-R2BT4	3550	LTE/CBRS	240	494.34	50'	0	4
6	VERIZON WIRELESS (Proposed)	Commscope NHHS4-65A-R3B	751	LTE	240	1210.85	50'	0	2
6	VERIZON WIRELESS (Proposed)	Commscope NHHS4-65A-R3B	850	LTE	240	668.44	50'	0	2
6	VERIZON WIRELESS (Proposed)	Commscope NHHS4-65A-R3B	850	5G	240	668.44	50'	0	2
6	VERIZON WIRELESS (Proposed)	Commscope NHHS4-65A-R3B	2100	LTE/AWS1	240	4447.54	50'	0	1
6	VERIZON WIRELESS (Proposed)	Commscope NHHS4-65A-R3B	3700	5G	240	43167.43	50'	0	4
7	UNKNOWN CARRIER	Generic	1900		180	100	48.75'	0	0
8	UNKNOWN CARRIER	Generic	2100		180	100	40.17'	0	0
9	UNKNOWN CARRIER	Generic	900		0	100	48.75'	0	0
10	UNKNOWN CARRIER	Generic	150		0	100	48.75'	0	0
11	UNKNOWN CARRIER	Generic	2400		0	100	38.5'	0	0
12	UNKNOWN CARRIER	Generic	850		0	100	35.66'	0	0
13	UNKNOWN CARRIER	Generic	850		0	100	35.66'	0	0
14	UNKNOWN CARRIER	Generic	850		0	100	35.66'	0	0

Notes: Each row with the same number in the *Ant #* column references the same physical antenna. Proposed equipment is tagged as *(Proposed)* under *Operator* or *Antenna Make and Model*. Power values provided by the client and used in the analysis may be greater than what is initially deployed. For additional modeling information, refer to Appendix B of this report.



#### 4 Engineer Certification

The Professional engineer whose seal appears on the cover of this document hereby certifies and affirms:

That I am registered as a Professional Engineer in the jurisdiction indicated in the professional engineering stamp on the cover of this document; and

That I am providing professional engineering services on behalf of QualTek Engineering, P.C., and am an employee of QualTek Wireless, LLC, sister company to Site Safe, LLC (both under the parent company QualTek); and

That I am thoroughly familiar with the Rules and Regulations of the Federal Communications Commission (FCC) as well as the regulations of the Occupational Safety and Health Administration (OSHA), both in general and specially as they apply to the FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields; and

That I have thoroughly reviewed this Site Compliance Report and believe it to be true and accurate to the best of my knowledge as assembled by and attested to by Benjamin Schnable.

July 12, 2022



## Appendix A – Technical Framework: FCC Rules and Regulations

In 1996, the FCC adopted regulations for evaluating of the effects of RF emissions in 47 CFR § 1.1307(b) and 1.1310. The guideline from the FCC Office of Engineering and Technology is Bulletin 65 (OET Bulletin 65), *Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields*, Edition 97-01, published August 1997. Since 1996, the FCC periodically reviews these rules and regulations as per its congressional mandate.

FCC regulations define two separate tiers of exposure limits: Occupational or “Controlled Environment” and General Public or “Uncontrolled Environment”. The General Public limits are generally five times more conservative or restrictive than the Occupational limits.

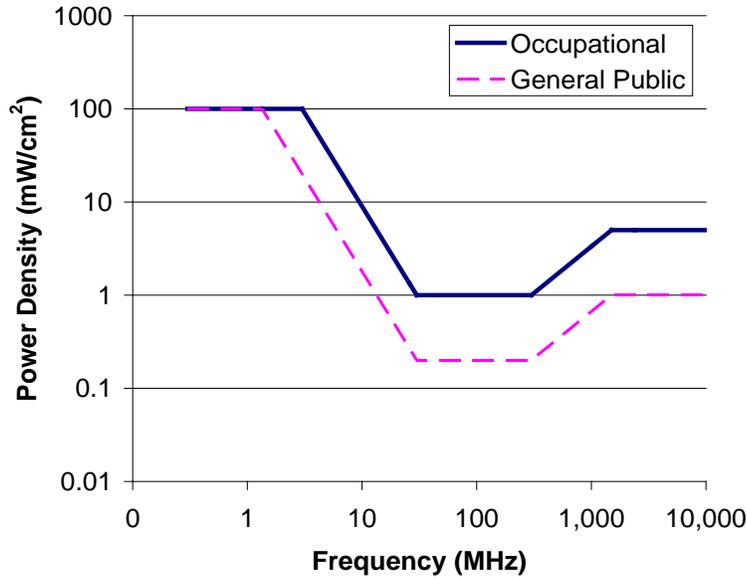
General Public or Uncontrolled limits apply to *accessible* areas where workers or the general public may be exposed to RF electromagnetic fields.

Occupational or Controlled limits apply in situations in which persons are exposed as a consequence of their employment and where those persons exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. An area is considered a Controlled environment when access is limited to these aware personnel. Typical criteria are restricted access (e.g. locked or alarmed doors, barriers, etc.) to the areas where antennas are located coupled with proper RF warning signage.

A site with Controlled environments is evaluated with Occupational limits. All other areas are considered Uncontrolled environments. If a site has no access controls or no RF warning signage, it is evaluated with General Public limits.

The theoretical modeling of the RF electromagnetic fields has been performed in accordance with OET Bulletin 65. The MPE limits utilized in this analysis are outlined in the following diagram and table:

**FCC Limits for Maximum Permissible Exposure (MPE)**  
Plane-wave Equivalent Power Density



**Limits for Occupational/Controlled Exposure (MPE)**

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f <sup>2</sup> )*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

**Limits for General Population/Uncontrolled Exposure (MPE)**

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz      \*Plane-wave equivalent power density

## Appendix B – Definitions

**Compliance** – The determination of whether a site complies with FCC standards with regards to Human Exposure to Radio Frequency Electromagnetic Fields from transmitting antennas.

**Decibel (dB)** – A unit for measuring power or strength of a signal.

**Duty Cycle** – The percent of pulse duration to the pulse period of a periodic pulse train. Also, may be a measure of the temporal transmission characteristic of an intermittently transmitting RF source. A duty cycle of 100% corresponds to continuous operation.

**Effective (or Equivalent) Isotropic Radiated Power (EIRP)** – The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna.

**Effective Radiated Power (ERP)** – The product of the power supplied to the antenna and the antenna gain in a given direction relative to a half-wave dipole antenna.

**Gain (of an antenna)** – The ratio, usually expressed in decibels, of the power required at the input of a loss-free reference antenna to the power supplied to the input of the given antenna to produce, in a given direction, the same field strength or the same power density at the same distance. When not specified otherwise, the gain refers to the direction of maximum radiation. Gain may be considered for a specified polarization. Gain may be referenced to an isotropic antenna (dBi) or a half-wave dipole (dBd) antenna.

**Generic Antenna** – For the purposes of this report, the use of “Generic” as an antenna model means the antenna information was not provided. In the event of unknown information, Sitesafe will use its industry specific knowledge of antenna models to select a worst-case scenario antenna to model the site.

**Maximum Permissible Exposure (MPE)** – The rms and peak electric and magnetic field strength, their squares, or the plane-wave equivalent power densities associated with these fields to which a person may be exposed without harmful effect and with acceptable safety factor.

**OET Bulletin 65** – Technical guideline developed by the FCC’s Office of Engineering and Technology to determine the impact of RF exposure on humans. The guideline was published in August 1997.

**Radio Frequency Exposure or Electromagnetic Fields** – Electromagnetic waves that are propagated from antennas through space.



## Appendix C – Statement of Limiting Conditions

Sitesafe will not be responsible for matters of a legal nature that affect the site or property.

Due to the complexity of some wireless sites, Sitesafe performed this analysis and created this report utilizing best industry practices and due diligence. Sitesafe cannot be held accountable or responsible for anomalies or discrepancies due to actual site conditions or information or data supplied by Verizon Wireless, the site manager, or their affiliates, subcontractors or assigns.

Sitesafe obtained information used in this Site Compliance Report from sources that Sitesafe considers reliable and believes them to be true and correct. Sitesafe does not assume any responsibility for the accuracy of such items that were furnished by other parties. When conflicts in information occur between data provided by a second party and physical data collected by Sitesafe, the physical data will be used.



## Appendix D – Additional Resources

Additional RF information is available at the following sites:

<https://www.fcc.gov/general/radio-frequency-safety-0>

<https://www.fcc.gov/engineering-technology/electromagnetic-compatibility-division/radio-frequency-safety/faq/rf-safety>

**5**

# VERIZON WIRELESS OF THE EAST LP d/b/a



## SITE NAME: SCHNEIDER AVE

REAL ESTATE P/N: 20202142274  
LOCATION CODE: 636584



VICINITY MAP

### DIRECTIONS

DIRECTIONS TO SITE: FROM NORTH GREENBUSH,  
GET ON I-90 W FROM US-4 S AND NY-43 W (3.7± MILES). TAKE I-787 S TO US-9W S/MCCARTY AVE IN ALBANY (4.7± MILES). FOLLOW I-87 S TO STEWART AVE IN NEWBURGH. TAKE EXIT 17 FROM I-87 S (83.7± MILES). TAKE NY-300, NY-32 S AND RTE 9W S TO SCHNEIDER AVE IN HIGHLAND FALLS (15.1± MILES). SITE WILL BE ON THE LEFT.

SITE ADDRESS: 303 MAIN ST  
HIGHLAND FALLS, NY 10928  
MUNICIPALITY: VILLAGE OF HIGHLAND FALLS  
COUNTY: ORANGE  
TAX ID: 104-3-17.1  
STRUCTURE COORDINATES: 41.370640°  
-73.965524°  
GROUND ELEVATION: 166'± AMSL  
PROPERTY OWNER: VILLAGE OF HIGHLAND FALLS  
303 MAIN ST  
HIGHLAND FALLS NY 10928  
APPLICANT: VERIZON WIRELESS  
1275 JOHN STREET, SUITE 100  
WEST HENRIETTA, NY 14586  
CONTACT PERSON: KATHY POMPONIO  
CONTACT PHONE: (585) 321-5435

### PROJECT SUMMARY

### PROJECT DESCRIPTION

THE PROPOSED WORK CONSISTS OF:  

- INSTALL (6) PANEL ANTENNAS ON PROPOSED STUB TOWER
- INSTALL (6) RRUS ON PROPOSED STUB TOWER
- INSTALL (1) 12X24 HYBRID CABLE ON PROPOSED STUB TOWER
- INSTALL EQUIPMENT PLATFORM & STUB TOWER ON EXISTING ROOF

SHT. NO.	DESCRIPTION	REV NO	REVISION DATE
T-1	TITLE SHEET	0	6/10/22
GN-1	GENERAL NOTES	0	6/10/22
GN-2	GENERAL NOTES	0	6/10/22
C-1	OVERALL SITE PLAN	0	6/10/22
C-2	PARTIAL ROOF PLAN	0	6/10/22
C-3	SITE DETAIL PLAN	0	6/10/22
C-4	ELEVATION	0	6/10/22
C-5	RF INFO	0	6/10/22
C-6	ANTENNA ORIENTATIONS & MOUNTING DETAILS	0	6/10/22
C-7	EQUIPMENT ELEVATIONS	0	6/10/22
C-8	SITE DETAILS	0	6/10/22
S-1	NOTES	1	6/3/22
S-1A	SPECIAL INSTRUCTIONS & NOTES	1	6/3/22
S-2	OVERALL SITE PLAN	1	6/3/22
S-3	EQUIPMENT FRAME PLAN	1	6/3/22
S-4	BACK ALLEY PLANS, ELEVATION & DETAIL	1	6/3/22
S-5	SECTIONS & DETAILS	1	6/3/22
S-6	SECTIONS & DETAILS	1	6/3/22
S-7	SECTIONS & DETAILS	1	6/3/22
E-1	UTILITY RE-ROUTING PLAN		
E-2	UTILITY DIAGRAMS & DETAILS	0	6/10/22
E-3	GROUNDING PLAN	0	6/10/22
E-4	GROUNDING RISER DIAGRAM	0	6/10/22
E-5	GROUNDING DETAILS	0	6/10/22

### SHEET INDEX

THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL ITEMS OF CONCERN HAVE BEEN ADDRESSED AND EACH OF THE DRAWINGS HAS BEEN REVISED AND ISSUED "FOR CONSTRUCTION".

Before You Dig, Drill Or Blast!

**Dig Safely.**  
**New York**

UNDERGROUND FACILITIES  
PROTECTIVE ORGANIZATION

CALL US TOLL FREE 1-800-962-7962

NY Industrial code rule 753 requires no less than two working days notice, but not more than ten days notice.

DIG SAFELY — NEW YORK

### DO NOT SCALE DRAWINGS

THESE DRAWINGS ARE FORMATTED FOR 22"x34" FULL SIZE AND 11"x17" HALF SIZE. OTHER SIZED VERSIONS ARE NOT PRINTED TO THE SCALE SHOWN. CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



1275 JOHN STREET, SUITE 100  
WEST HENRIETTA, NY 14586



PRactical SOLUTIONS. EXCEPTIONAL SERVICE.  
Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.  
Project Contact Info: 36 British American Blvd. Phone: (518) 783-1630  
Suite 101 (800) 829-6331  
Latham, NY 12110 www.tectonicengineering.com

WORK ORDER NUMBER 10272.34 DRAWN BY TRR

NO.	DATE	ISSUE
0	6/10/22	FOR COMMENT

NO.	DATE	ISSUE
0	6/10/22	FOR COMMENT

RELEASED BY DATE

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COPIES OF THIS DOCUMENT WITHOUT A FACSIMILE OF THE SIGNATURE AND AN ORIGINAL EMBOSSED SEAL OR ORIGINAL STAMP IN BLUE OR RED INK OF THE PROFESSIONAL ENGINEER OR LAND SURVEYOR SHALL NOT BE CONSIDERED VALID COPIES.



ORIGINAL SIZE IN INCHES

### SITE INFORMATION

SCHNEIDER AVE  
RE PN: 20202142274  
LC: 636584

### SITE ADDRESS

303 MAIN ST  
VILLAGE OF HIGHLAND FALLS  
ORANGE COUNTY  
NY 10928

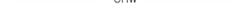
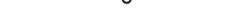
### SHEET TITLE

TITLE SHEET

### SHEET NUMBER

T-1

## LEGEND

	PROPERTY LINE
	ADJOINING PROPERTY LINE
	EXISTING CONTOUR
	EXISTING INDEX CONTOUR
	EXISTING BRUSH LINE
	EXISTING TREE LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING EDGE OF GRAVEL DRIVE
	EXISTING FENCE
	EXISTING UNDERGROUND UTILITIES
	EXISTING OVERHEAD WIRES
	EXISTING UTILITY POLE
	EXISTING IRON ROD/PIPE
	EXISTING CENTERLINE OF DITCH
	EXISTING STORM SEWER
	EXISTING CATCH BASIN
	PROPOSED LEASE LINE
	PROPOSED EASEMENT LINE
	PROPOSED CHAINLINK FENCE
	PROPOSED SILT FENCE
	PROPOSED UNDERGROUND UTILITIES
	PROPOSED FUTURE U/G UTILITIES
	TREE TO BE REMOVED
	TREE TO REMAIN
	PROPOSED LIMITS OF CLEARING

## SITE NOTES

- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS.
- RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE PROPOSED PLATFORM.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE ENGINEER.
- THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDDED, AND COVERED WITH MULCH.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE STATE GUIDELINES AND ANY LOCAL REGULATIONS.
- ALL RESTORATION ISSUES SHALL BE COMPLETED WITHIN 72 HOURS OF THE COMPLETION OF THE WORK ACTIVITY OR WITHIN A REASONABLE AMOUNT OF TIME AS DIRECTED BY CONSTRUCTION MANAGER/ENGINEER.
- CARE SHALL BE TAKEN TO RETAIN NATURAL GROWTH AND PREVENT DAMAGE TO TREES WITHIN AND OUTSIDE THE LIMITS OF CONSTRUCTION AND SPECIFIED WORK AREAS CAUSED BY EQUIPMENT AND MATERIALS. ANY DAMAGE TO THIS NATURAL GROWTH SHALL BE RESTORED AT THE EXPENSE OF THE CONTRACTOR.
- ALL AREAS DISTURBED BY THE CONTRACTOR WITHOUT AUTHORIZATION SHALL BE RESTORED BY THE CONTRACTOR.
- IN THE EVENT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE CAUSING AN INTERRUPTION IN SAID SERVICE, HE SHALL IMMEDIATELY COMMENCE WORK TO RESTORE SERVICE AND MAY NOT CONTINUE HIS WORK OPERATION UNTIL SERVICE IS RESTORED.

## ANTENNA MOUNTING NOTES

- THE DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO ANSI/TIA-222 H-2017 "STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES, ANTENNAS AND SMALL WIND TURBINE SUPPORT STRUCTURES," THE BUILDING CODE OF NEW YORK STATE, AND ALL OTHER APPLICABLE LOCAL, STATE, AND FEDERAL CODES.
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780 "REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS", USING COLD GALVANIZING COMPOUND AS MANUFACTURED BY ZINGA-USA OR ZINC KOTE, OR ENGINEER APPROVED EQUAL WITH A MINIMUM METALLIC ZINC CONTENT OF 95% BY WEIGHT IN DRY FILM. DRY FINISHED COATING THICKNESS SHALL BE 3 MILS MINIMUM.
- ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH DOUBLE NUTS AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- DESIGN OF THE ANTENNA MOUNTING BRACKETS, SUPPORTS, AND ALL COMPONENTS THEREOF AND ATTACHMENT THERETO SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER. MANUFACTURER SHALL PROVIDE THE OWNER DRAWINGS DETAILING ALL COMPONENTS OF THE ASSEMBLY, INCLUDING CONNECTIONS, DESIGN LOADS, AND ALL OTHER PERTINENT DATA. MANUFACTURER SHALL ALSO PROVIDE THE OWNER WITH A STATEMENT OF COMPLIANCE, INDICATING THAT THE ANTENNA SUPPORTS HAVE BEEN DESIGNED IN ACCORDANCE WITH ANSI/TIA-222-H-2017 STANDARDS. ALL SUBMISSIONS SHALL BEAR THE SIGNATURE AND SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.

## STRUCTURAL NOTES

- PROPOSED TOWER AND FOUNDATION TO BE ANALYZED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.
- THE VERIFICATION OF STRUCTURAL ADEQUACY AND DESIGN OF THE ATTACHMENTS MUST BE PERFORMED, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.
- THE DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO ANSI/TIA-222-H-2017 "STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES, ANTENNAS AND SMALL WIND TURBINE SUPPORT STRUCTURES".
- REFER TO STRUCTURAL ANALYSIS REPORT PREPARED BY XXXXXX, DATED XX/XX/XX

## GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE, AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
- CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS OTHERWISE NOTED. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO EFFECT ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- DIMENSIONS SHOWN ARE TO FINISH SURFACES, UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS AND/OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE CARRIER'S AUTHORIZED REPRESENTATIVE OR THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING, AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH ARE NOT FOUND TO BE IN THE FIELD.
- CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST CONSTRUCTION SKILLS AND ATTENTION. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT, UNLESS OTHERWISE NOTED.
- ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS, AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE HIS WORK AND SCHEDULE HIS ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
- CONTRACTOR SHALL MAINTAIN LIABILITY INSURANCE TO PROTECT THE OWNER AND CARRIER.
- INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, IMPROVEMENTS, PIPING, ANTENNA AND ANTENNA CABLES. REPAIR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.
- REPAIR ALL EXISTING SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND WITH ADJACENT SURFACES.
- KEEP CONTRACT AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE ENGINEER.
- CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND INSPECTIONS AND PAY ALL REQUIRED FEES.
- PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A/10-BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDOUT AREA DURING CONSTRUCTION.
- ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS AND OTHER DOCUMENTATION SHALL BE TURNED OVER TO CARRIER AT COMPLETION OF CONSTRUCTION.
- COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF ACCEPTANCE BY CARRIER. ANY WORK, MATERIALS, OR EQUIPMENT FOUND TO BE DEFECTIVE DURING THAT PERIOD SHALL BE CORRECTED IMMEDIATELY UPON WRITTEN NOTIFICATION AT NO ADDITIONAL COST TO CARRIER.
- RIGGING OPERATIONS SHALL BE DONE IN ACCORDANCE WITH STATE AND FEDERAL SAFETY REGULATIONS (OSHA). TECTONIC, CARRIER AND THE OWNER SHALL BE HELD HARMLESS IN THE EVENT THE CONTRACTOR DOES NOT FOLLOW SUCH SAFETY REGULATIONS.
- CONTRACTOR SHALL PROVIDE ACCESS TO THE SITE AND ASSIST THE RADIO EQUIPMENT VENDOR AND THE ANTENNA INSTALLATION CONTRACTOR AS THEY MAY REQUIRE.



1275 JOHN STREET, SUITE 100  
WEST HENRIETTA, NY 14586



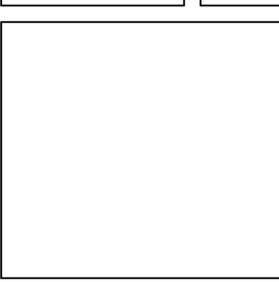
PRactical SOLUTIONS. EXCEPTIONAL SERVICE.  
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Project Contact Info  
36 British American Blvd. Phone: (518) 783-1630  
Suite 101 (800) 829-6331  
Latham, NY 12110 www.tectonicingineering.com

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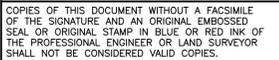
NO.	DATE	ISSUE
0	6/10/22	FOR COMMENT

RELEASED BY	DATE

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ORIGINAL SIZE IN INCHES  
SITE INFORMATION

SCHNEIDER AVE  
RE PN: 20202142274  
LC: 636584  
SITE ADDRESS

303 MAIN ST  
VILLAGE OF HIGHLAND FALLS  
ORANGE COUNTY  
NY 10928

SHEET TITLE  
GENERAL NOTES

SHEET NUMBER

GN-1

## GROUNDING NOTES

- GROUND TESTING AFTER CONSTRUCTION:
1. AFTER COMPLETION OF CONSTRUCTION OF THE CELL SITE GROUND SYSTEM, A POST INSTALLATION GROUND TEST SHALL BE PERFORMED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE THE GROUND RESISTANCE FOR ALL SITES AFTER INSTALLATION OF THE EARTH GROUND SYSTEM. A PRELIMINARY EARTH RESISTIVITY TEST (3 POLE TEST OR CLAMP-ON-METER) SHALL BE PERFORMED PRIOR TO BACK FILLING ALL TRENCHES AS SPECIFIED IN VERIZON NETWORK STANDARDS (NSTD46) AND THE NATIONAL ELECTRIC CODE.
  2. APPROVED MEASUREMENT METHODS FOR POST INSTALLATION GROUND TESTING SHALL BE ONE OF THE FOLLOWING METHODS:
    - A. FALL OF POTENTIAL METHOD – 3 POINT
    - B. CLAMP-ON RESISTANCE TEST
    - C. TOWER AND EXTERNAL CONDUCTOR TEST
  3. A GROUNDING RESISTANCE TEST REPORT SHALL BE PREPARED UPON COMPLETION OF THE TESTING. THE TEST REPORT SHALL SHOW THE RESISTANCE IN OHMS AT 40%, 52%, 62%, 72% AND 82% POINTS IN 10% INTERVALS. RESISTANCE IS TO BE RECORDED AT EACH INTERVAL FOR EACH POINT FOR FOUR (4) DIFFERENT DIRECTIONS UNTIL THERE IS A PLATEAU SEEN AT THE 62% POINT. TESTING SHOULD BE COMPLETED IN A MINIMUM OF TWO (2) DIFFERENT DIRECTIONS AT 90 DEGREES APART. RECORD THE AVERAGE OR MEAN AS THE RESISTANCE OF THE SITE AND ENTER THIS ON THE POST RESISTANCE DATA CHART.
  4. PROVIDE THE POST INSTALLATION – GROUND RESISTANCE TEST REPORT TO THE REGIONAL PROJECT ENGINEER ACCOMPANIED BY THE POST RESISTANCE DATA CHART.

## ELECTRICAL INSTALLATION NOTES

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
2. ALL ELECTRICAL EQUIPMENT AND ACCESSORIES SHALL BE U.L. APPROVED OR LISTED.
3. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
4. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
5. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
6. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
7. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA.
8. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
9. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE USE-2 CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT RHW-2 OR XHHW-2, STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 90°C.
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT) OR RIGID METALLIC CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT) OR RIGID METALLIC CONDUIT (RMC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. PVC SCHEDULE 40 CONDUIT SHALL BE USED UNDERGROUND EXCEPT IN AREAS OF VEHICULAR TRAFFIC. IN SUCH AREAS, PVC SCHEDULE 80 SHOULD BE USED.
18. ALL OUTDOOR EXPOSED CONDUIT SHALL BE PVC SCHEDULE 80 AND SHALL BE SUPPORTED ADEQUATELY.
19. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED. LFMC SHALL CONFORM TO NEC ARTICLE 350.
20. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
21. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
22. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
23. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
24. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
25. NON-METALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
26. CONTRACTOR SHALL APPLY FOR ELECTRICAL SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS, SERVICE ROUTING, AND METER SOCKET TYPE WITH LOCAL POWER COMPANY.
27. CONTRACTOR SHALL APPLY FOR TELEPHONE SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS AND SERVICE ROUTING WITH TELEPHONE COMPANY.
28. CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY PERMIT FEES, AND SCHEDULE INSPECTIONS.
29. CONTRACTOR SHALL LABEL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC 110.16 AND 110.24.
30. CONTRACTOR SHALL VERIFY THAT THE MAIN BONDING JUMPER AND GROUNDING ELECTRODE CONDUCTOR IS INSTALLED PROPERLY AT SERVICE ENTRANCE.
31. CONTRACTOR SHALL SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH WALLS, FLOORS AND ROOFS TO PREVENT MOISTURE PENETRATION OR VERMIN INFESTATIONS.
32. WHERE ELECTRICAL POWER IS TO BE SUB-FED FROM AN EXISTING DISTRIBUTION SYSTEM, THE FOLLOWING SHALL APPLY:
  - A. CONTRACTOR SHALL PERFORM LOAD TESTING TO DETERMINE MAXIMUM FEEDER DEMAND PER N.E.C. ARTICLE 220.
  - B. CONTRACTOR SHALL VERIFY WHETHER EXISTING FEEDER CAPACITY EXCEEDS VALUE CALCULATED PER N.E.C. ARTICLE 220.
  - C. EACH BRANCH CIRCUIT PROTECTIVE DEVICE SHALL HAVE SAME INTERRUPTING RATING AS EQUIPMENT SUPPLYING IT.
  - D. PREFERRED MEANS OF SUPPLY SHALL BE A BRANCH CIRCUIT PROTECTIVE DEVICE LOCATED IN EXISTING PANEL.
36. DURING TRENCH BACK-FILLING FOR EACH UNDERGROUND ELECTRICAL, TELEPHONE, SIGNAL AND COMMUNICATIONS LINE, PROVIDE A CONTINUOUS UNDERGROUND WARNING TAPE TWELVE INCHES BELOW FINISHED GRADE.

## STEEL NOTES

1. DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", LATEST EDITION.
2. STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992. "STEEL FOR STRUCTURAL SHAPES FOR USE IN BUILDING FRAMING", GRADE 50, UNLESS OTHERWISE INDICATED. IF THE MEMBER SIZES INDICATED ARE NOT AVAILABLE IN THIS GRADE, ASTM A572 "HIGH-STRENGTH LOW-ALLOY COLUMBIUM-VANADIUM STRUCTURAL STEEL", GRADE 50, MAY BE SUBSTITUTED.
3. STEEL PLATES, CHANNELS AND ANGLES SHALL CONFORM TO ASTM A36 "CARBON STRUCTURAL STEEL".
4. ROUND AND SQUARE HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B.
5. STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B, OR ASTM A53 "PIPE, STEEL, BLACK AND HOT-DIPPED, ZINC-COATED WELDED AND SEAMLESS", TYPE E OR S, GRADE B.
6. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
7. STRUCTURAL CONNECTION BOLTS SHALL BE BOLTS CONFORMING TO ASTM A307 "CARBON STEEL BOLTS, STUDS, AND THREADED ROD, 60000 PSI TENSILE STRENGTH", UNLESS OTHERWISE NOTED. MATCHING NUTS SHALL BE HEX TYPE, CONFORMING TO ASTM A563, "CARBON AND ALLOY STEEL NUTS".
8. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
9. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
10. STRUCTURAL STEEL CONNECTIONS SHALL BE WELDED OR BOLTED, AS INDICATED:
  - A) CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES".
  - B) ALL FILLET WELDS SHALL BE MADE USING THE SHIELDED METAL ARC WELDING (SMAW) PROCESS WITH E70XX ELECTRODES UNLESS OTHERWISE NOTED.
  - C) MINIMUM SIZE OF CLIP ANGLES SHALL BE L3x3x3/8" UNLESS OTHERWISE NOTED.
  - D) ALL GUSSET PLATES SHALL BE 3/8" THICK UNLESS NOTED.
  - E) ALL HOLES FOR BOLTS SHALL BE 1/16 INCH LARGER THAN THE BOLT DIAMETER WITH AN EDGE DISTANCE OF AT LEAST 1 1/2 TIMES THE BOLT DIAMETER AND A SPACING OF AT LEAST 3 TIMES THE BOLT DIAMETER. ALL BOLTS SHALL BE PROVIDED WITH PALNUTS OR LOCK NUTS.
11. ALL STEEL PIPE ANTENNA SUPPORTS SHALL BE INSTALLED WITH DOUBLE NUTS SNUG TIGHT.



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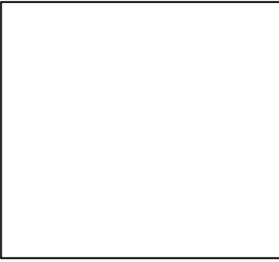


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**LC: 636584**

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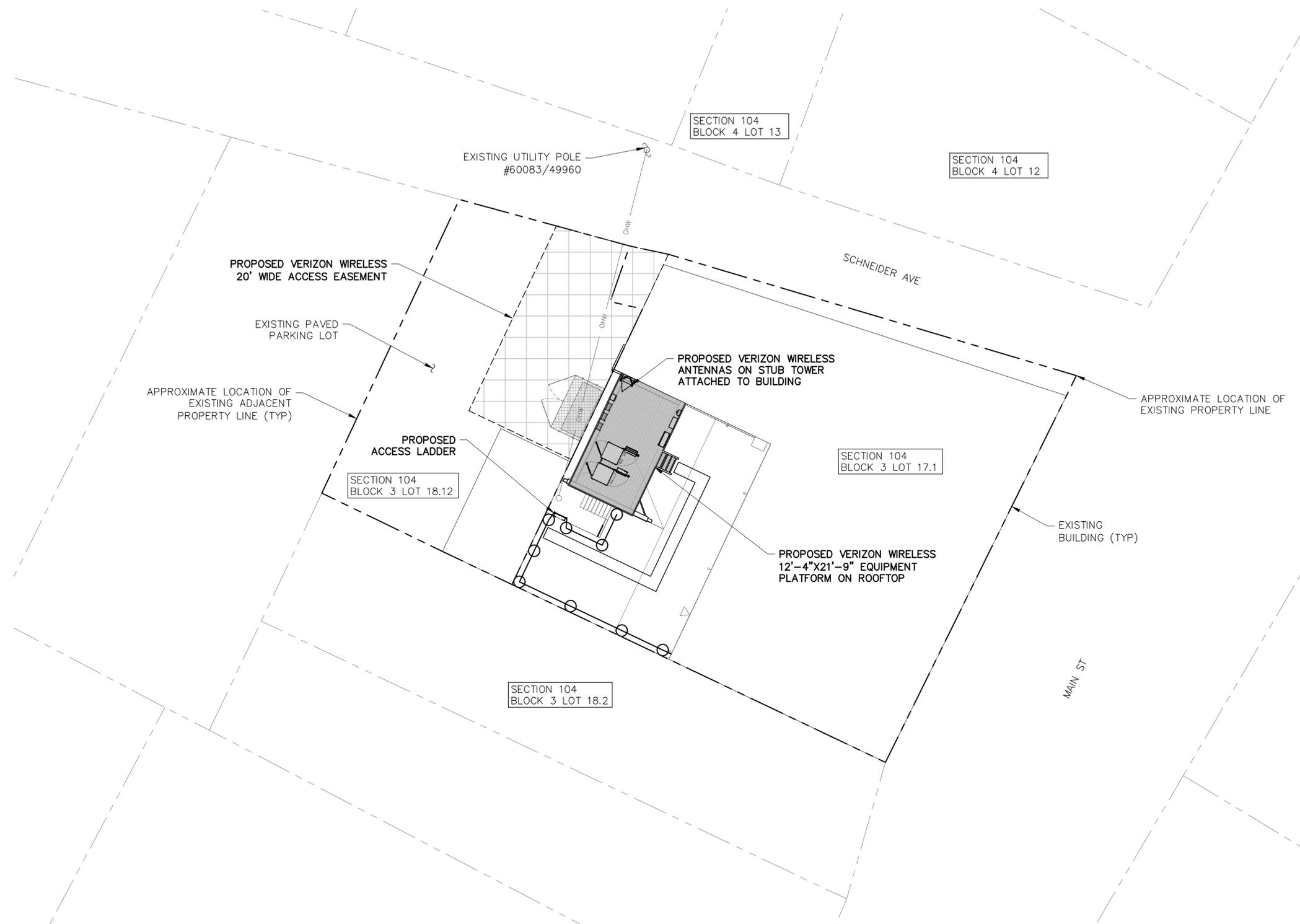
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**ORANGE COUNTY**  
**NY 10928**

**SHEET TITLE**

**GENERAL NOTES**

**SHEET NUMBER**

GN-2



**NOTE:**

THE PROPERTY LINES HEREON ARE APPROXIMATE BASED ON GIS DATA AND ARE FOR ORIENTATION PURPOSES ONLY. THEY DO NOT REPRESENT A PROPERTY/BOUNDARY DECISION BY A LAND SURVEYOR.

**1**  
C-1 OVERALL SITE PLAN  
SCALE: 1" = 20' (11 X 17)  
1" = 10' (22 X 34)



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ORIGINAL SIZE IN INCHES

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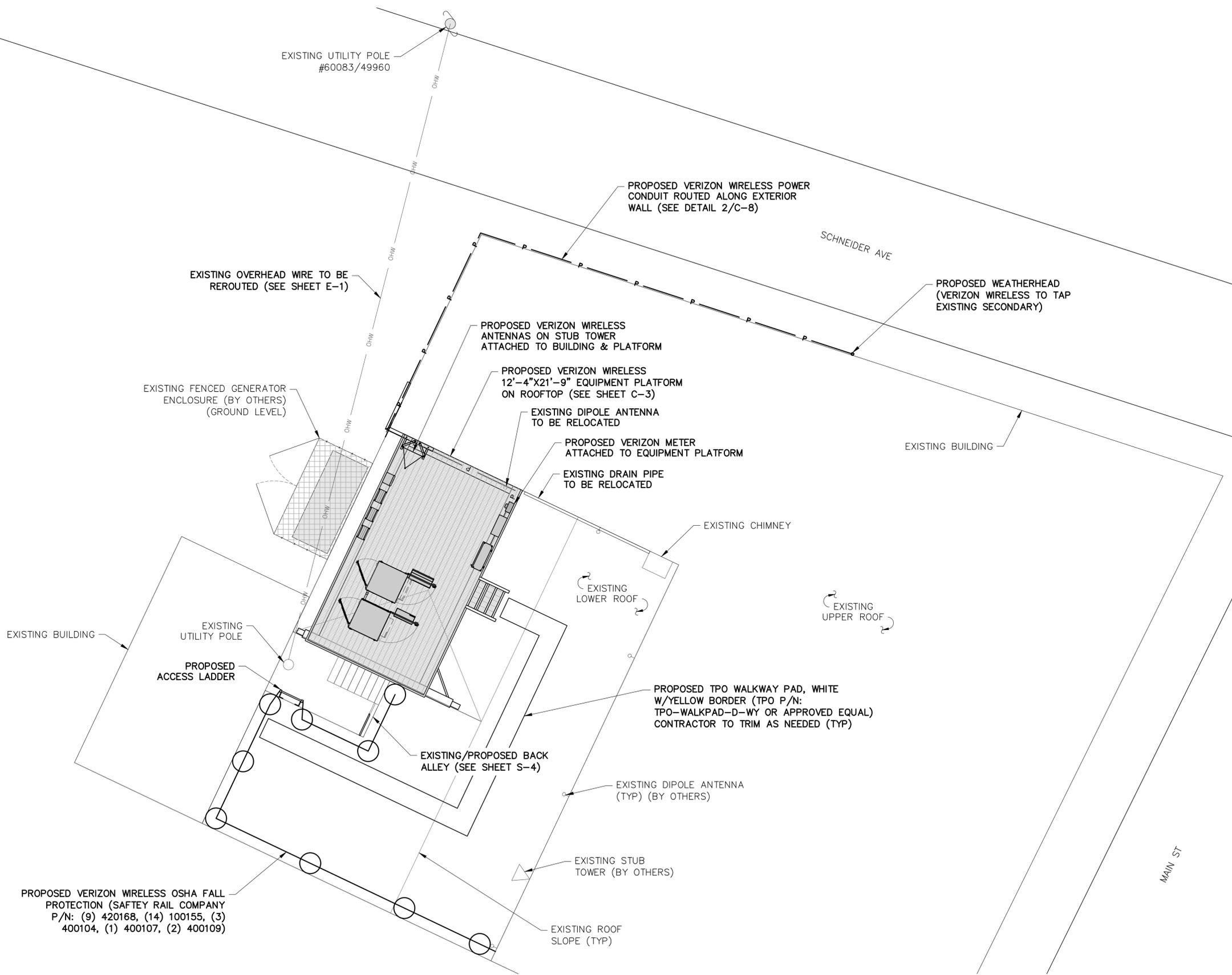
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OVERALL SITE PLAN

**SHEET NUMBER**

**C-1**



PROPOSED VERIZON WIRELESS OSHA FALL PROTECTION (SAFTEY RAIL COMPANY P/N: (9) 420168, (14) 100155, (3) 400104, (1) 400107, (2) 400109)

**PARTIAL ROOF PLAN**  
 SCALE: 1" = 10' (11 X 17)  
 1" = 5' (22 X 34)



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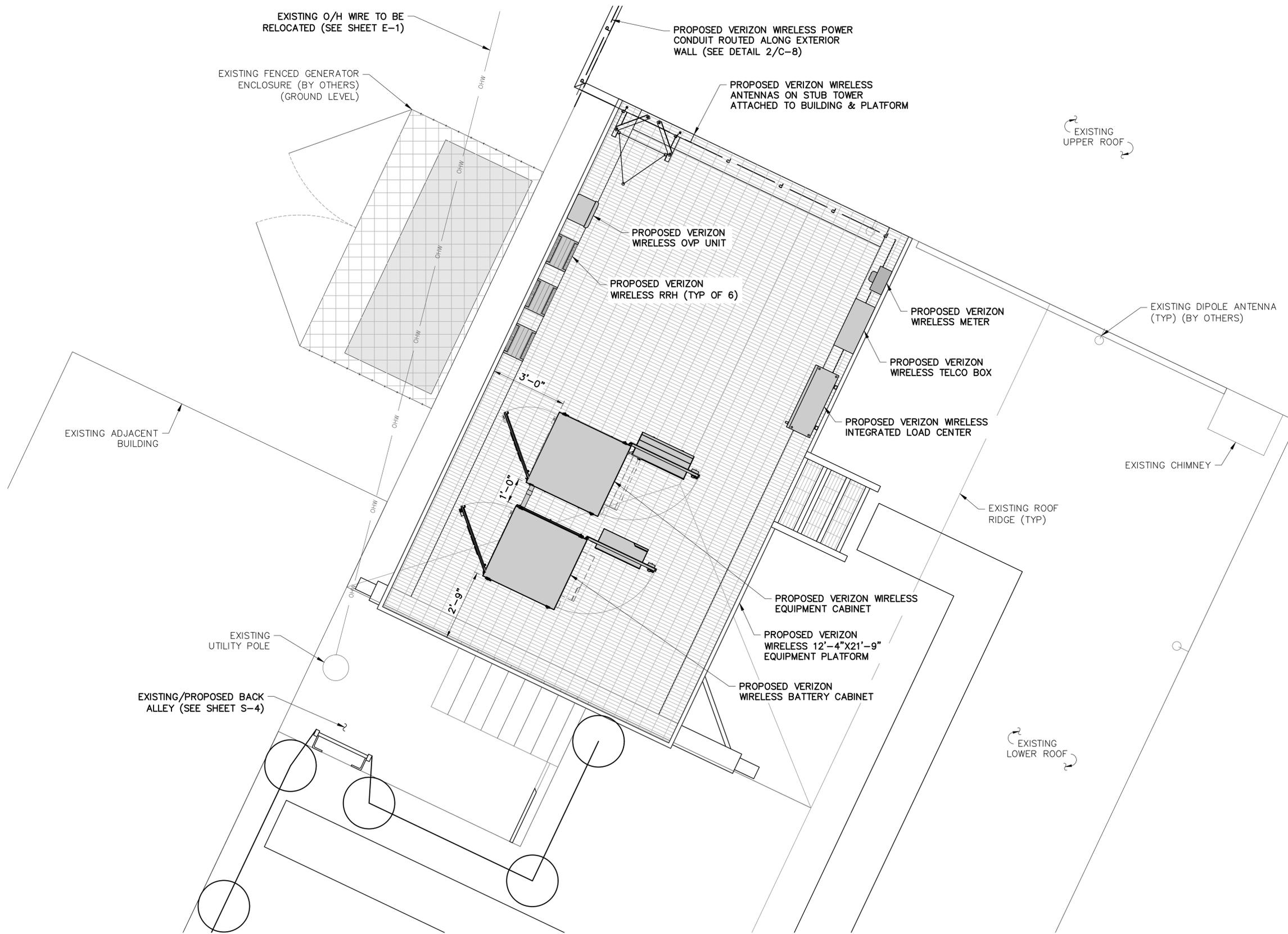
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**SHEET TITLE**  
 PARTIAL ROOF PLAN

**SHEET NUMBER**  
 C-2



1 SITE DETAIL PLAN  
C-3  
SCALE: 1" = 4' (11 X 17)  
1" = 2' (22 X 34)



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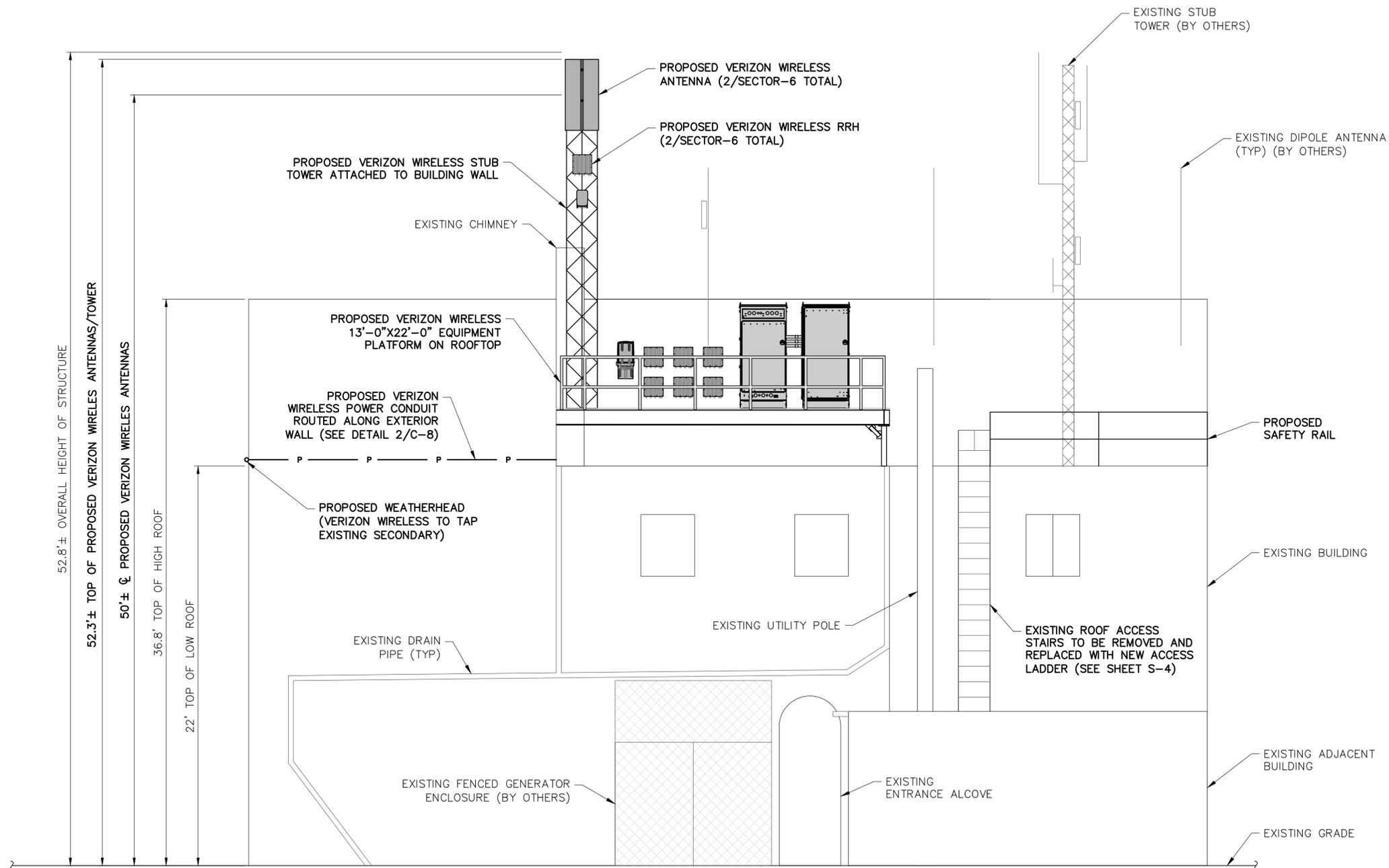
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SHEET TITLE  
SITE DETAIL PLAN

SHEET NUMBER  
C-3



**ELEVATION**  
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 1" = 4' (22 X 34)



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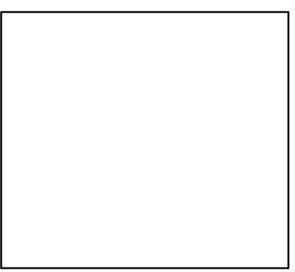
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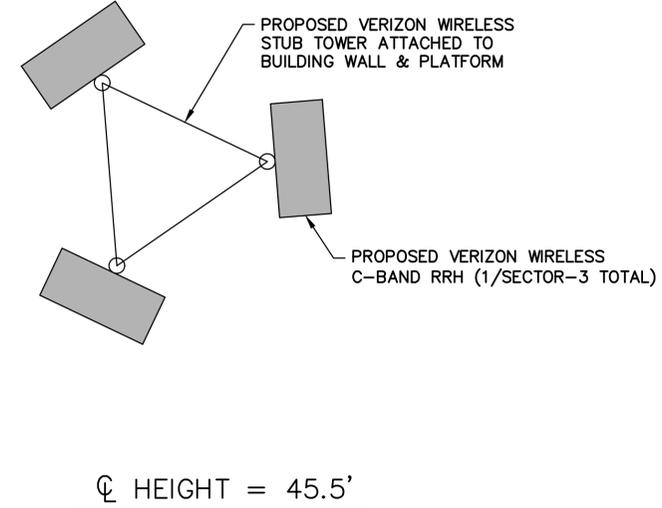
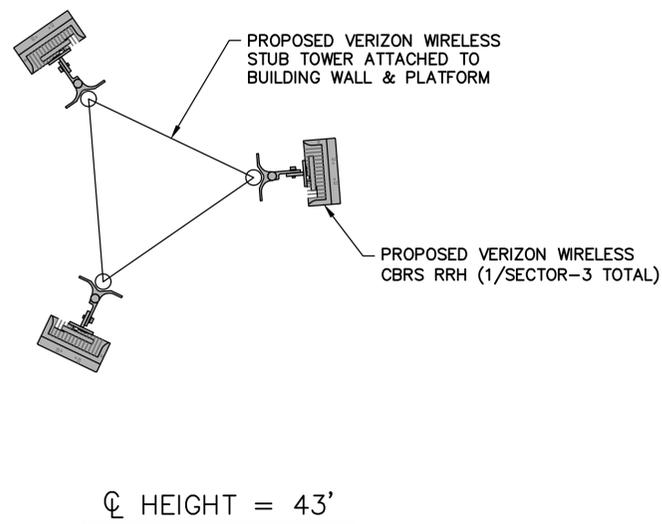
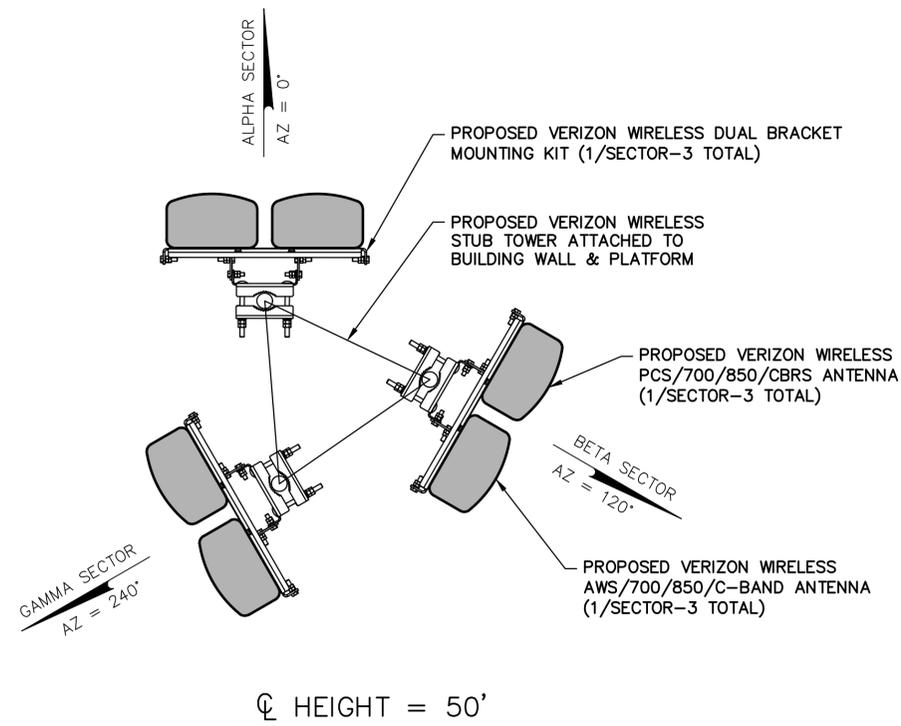
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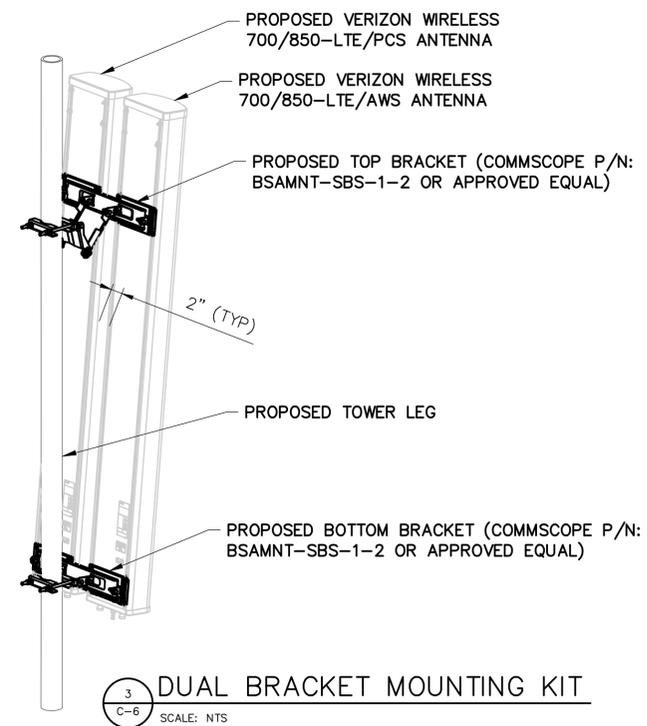
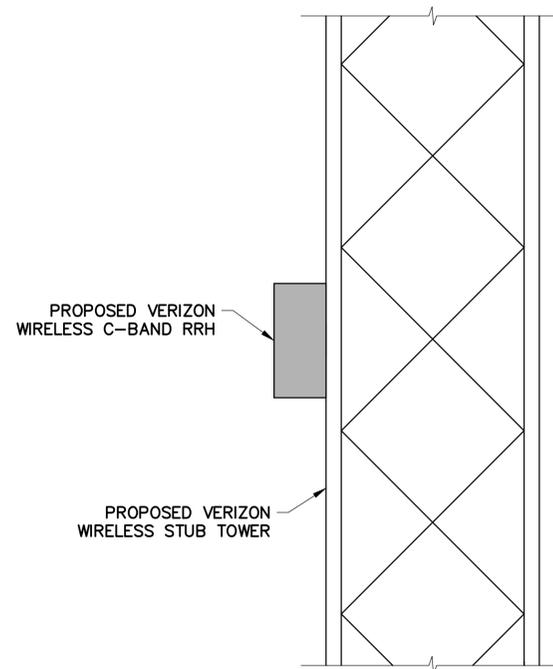
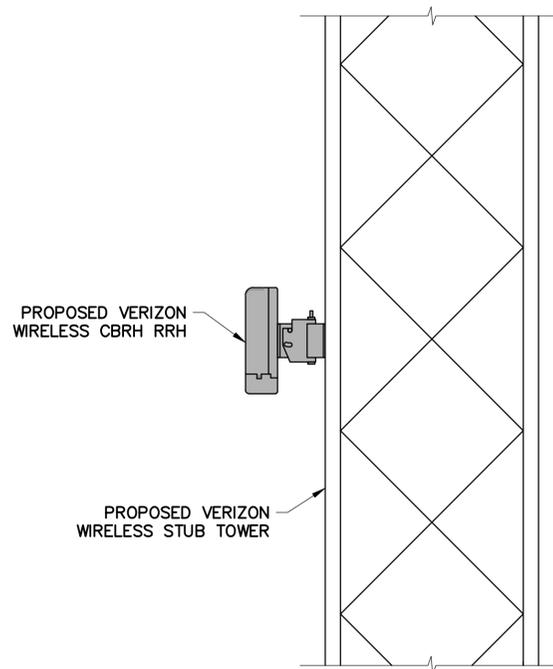
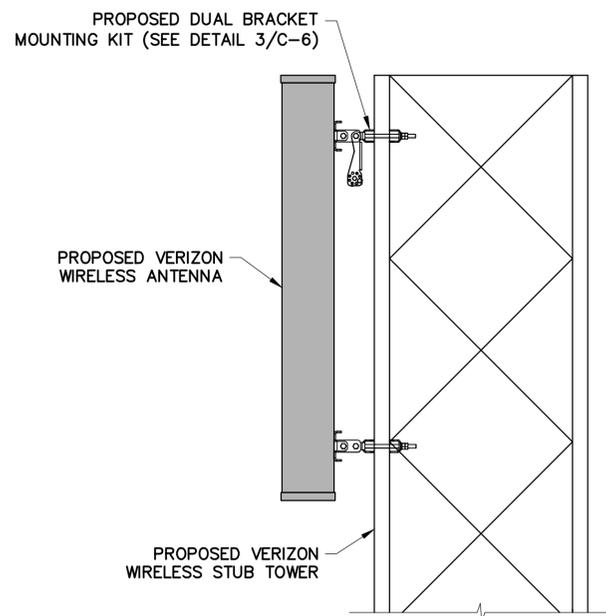
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**C-4**





1 ANTENNA ORIENTATION  
SCALE: 1" = 2' (11 X 17)  
1" = 1' (22 X 34)



2 ANTENNA & RRH MOUNTING DETAIL  
SCALE: 1" = 40' (11" X 17")  
1" = 20' (22 X 34)

3 DUAL BRACKET MOUNTING KIT  
SCALE: NTS



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SHEET TITLE  
ANTENNA ORIENTATIONS  
& MOUNTING DETAILS

SHEET NUMBER

C-6



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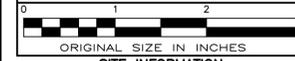
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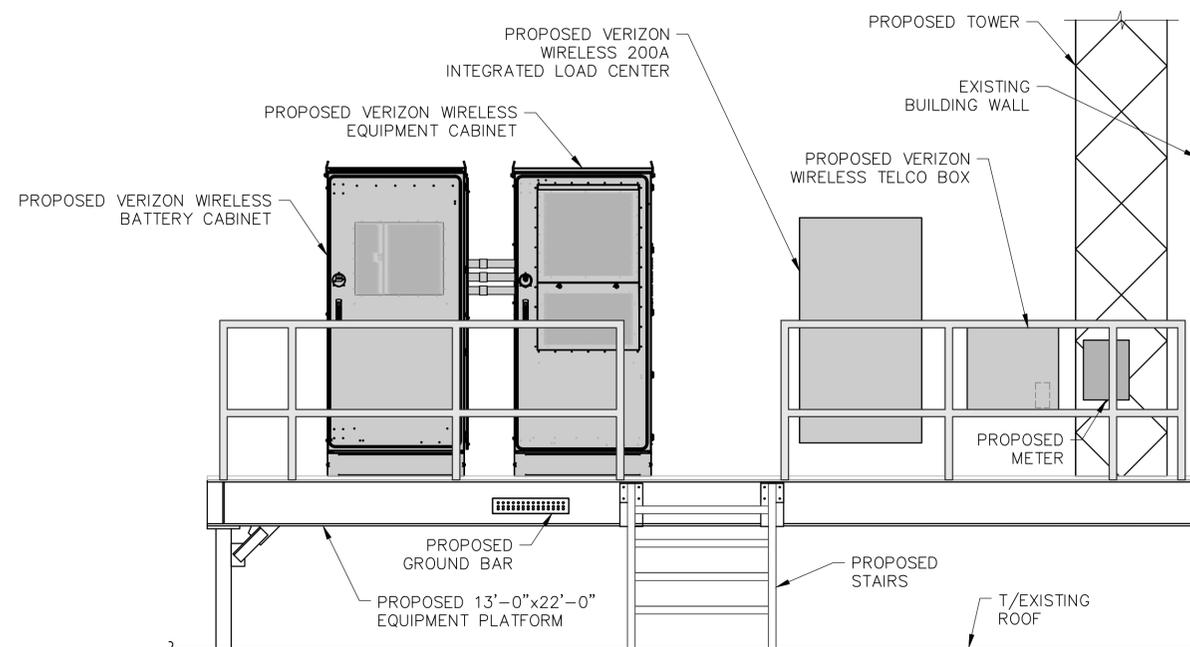
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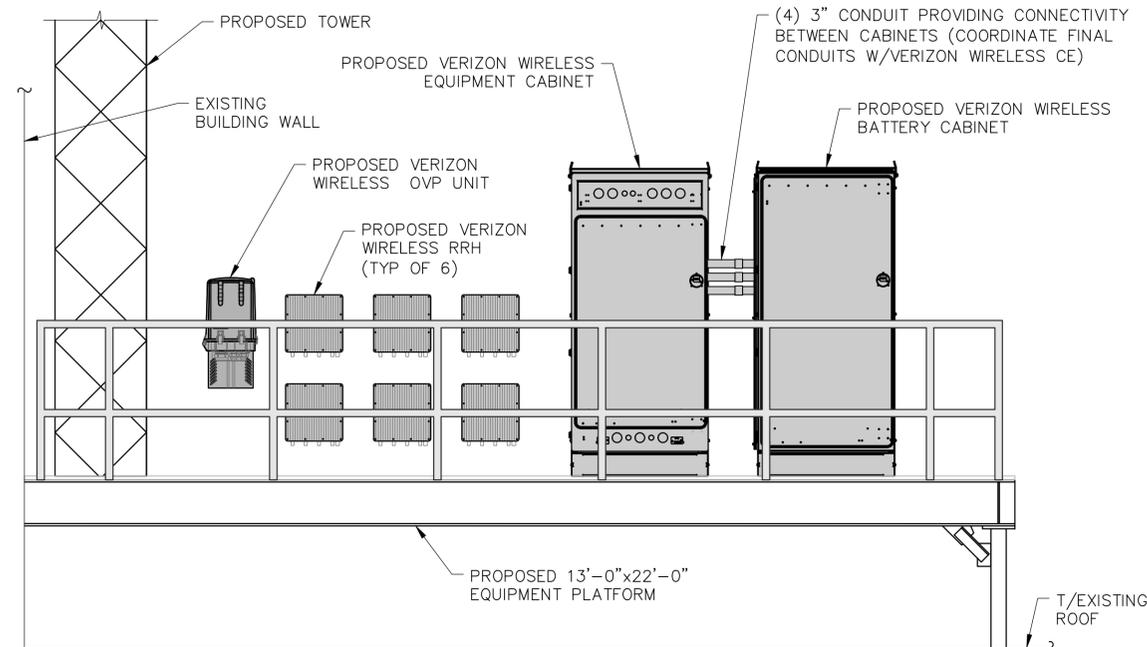
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SHEET TITLE  
EQUIPMENT ELEVATIONS

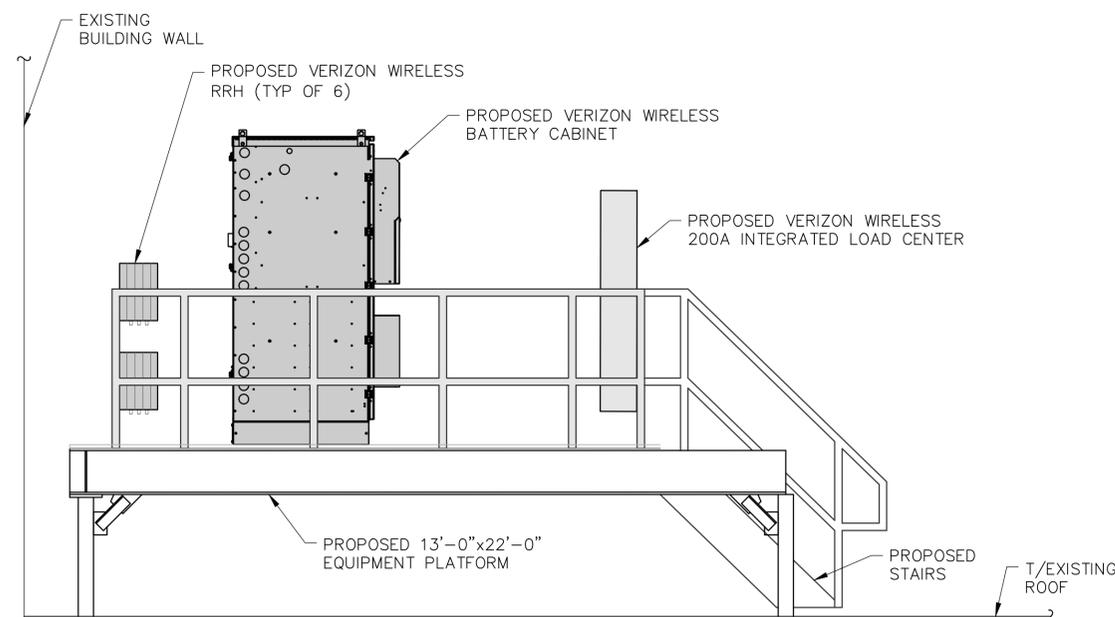
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C-7



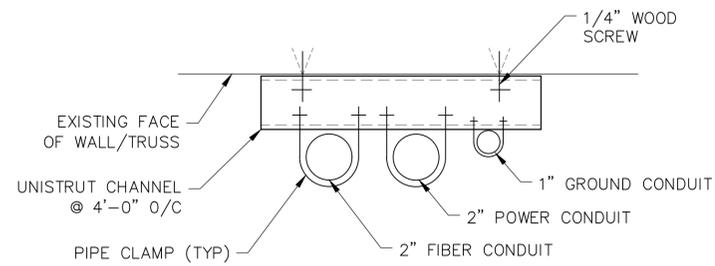
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C-7 SCALE: 1/4" = 1'-0"  
1/2" = 1'-0"



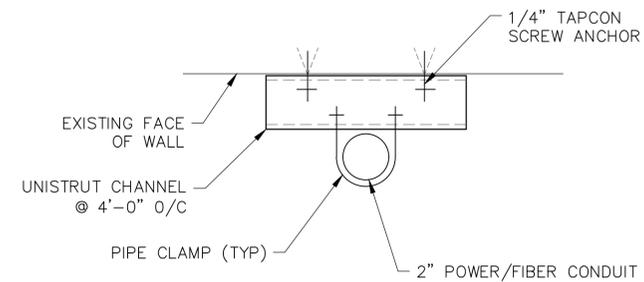
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C-7 SCALE: 1/4" = 1'-0"  
1/2" = 1'-0"



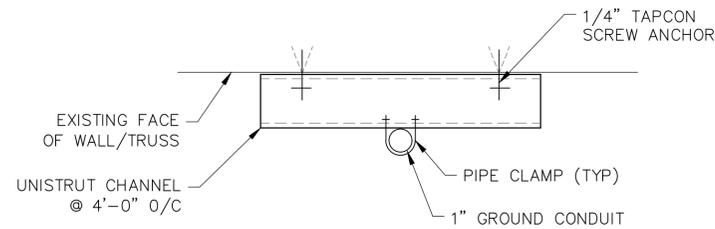
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C-7 SCALE: 1/4" = 1'-0"  
1/2" = 1'-0"



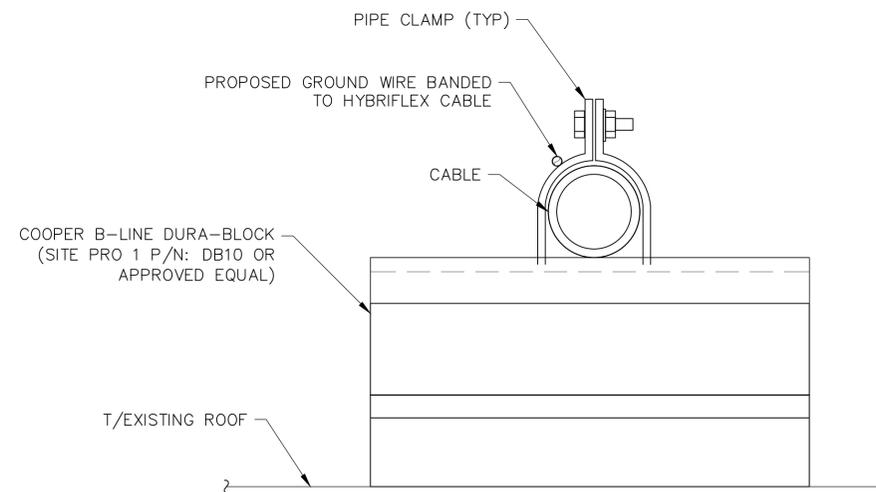
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C-8 SCALE: NTS



2 CONDUIT ATTACHMENT DETAIL  
C-8 SCALE: NTS



3 CONDUIT ATTACHMENT DETAIL  
C-8 SCALE: NTS



4 CONDUIT ATTACHMENT DETAIL  
C-8 SCALE: NTS



1275 JOHN STREET, SUITE 100  
WEST HENRIETTA, NY 14586



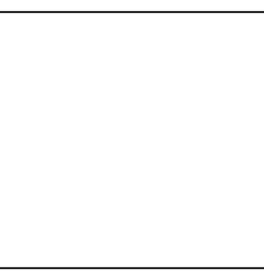
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WORK ORDER NUMBER: 10272.34  
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0	6/10/22	FOR COMMENT

NO.	DATE	ISSUE

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ORIGINAL SIZE IN INCHES

SITE INFORMATION  
SCHNEIDER AVE  
RE PN: 20202142274  
LC: 636584

SITE ADDRESS

303 MAIN ST  
VILLAGE OF HIGHLAND FALLS  
ORANGE COUNTY  
NY 10928

SHEET TITLE

SITE DETAILS

SHEET NUMBER

C-8

# GENERAL NOTES

## GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF CURRENT BUILDING CODE AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES, LATEST VERSION, AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
- CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS OTHERWISE NOTED. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO EFFECT ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- DIMENSIONS SHOWN ARE TO FINISH SURFACES, UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS AND/OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE AUTHORIZED REPRESENTATIVE OR THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING, AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- ONCE THE CONTRACTOR HAS RECEIVED AND ACCEPTED THE "NOTICE TO PROCEED," CONTRACTOR WILL CONTACT THE CONSTRUCTION MANAGER OF RECORD A MINIMUM OF 48 HOURS PRIOR TO WORK START.
- CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH ARE NOT FOUND TO BE IN THE FIELD.
- CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST CONSTRUCTION SKILLS AND ATTENTION. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT, UNLESS OTHERWISE NOTED.
- ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS, AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE HIS WORK AND SCHEDULE HIS ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
- CONTRACTOR SHALL MAINTAIN LIABILITY INSURANCE TO PROTECT THE OWNER.
- INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, IMPROVEMENTS, AND PIPING. REPAIR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.
- REPAIR ALL EXISTING SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND WITH ADJACENT SURFACES.
- KEEP CONTRACT AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE ENGINEER.

- PROVIDE 48 HOURS WRITTEN NOTICE TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS AND OTHER DOCUMENTATION SHALL BE TURNED OVER TO OWNER/CARRIER AT COMPLETION OF CONSTRUCTION.
- COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE BY. ANY WORK, MATERIALS OR EQUIPMENT FOUND TO BE DEFECTIVE DURING THAT PERIOD SHALL BE CORRECTED IMMEDIATELY UPON WRITTEN NOTIFICATION AT NO ADDITIONAL COST TO THE OWNER/CARRIER.

## STRUCTURAL NOTES:

- DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN".
- STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, "STEEL FOR STRUCTURAL SHAPES FOR USE IN BUILDING FRAMING", GRADE 50, UNLESS OTHERWISE INDICATED. IF THE MEMBER SIZES INDICATED ARE NOT AVAILABLE IN THIS GRADE, ASTM A572 "HIGH-STRENGTH LOW-ALLOY COLUMBIUM-VANADIUM STRUCTURAL STEEL", GRADE 50, MAY BE SUBSTITUTED.
- HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING IN ROUNDS AND SHAPES", GRADE C. SUBSTITUTION WITH ASTM A53 PIPE IS NOT ACCEPTABLE.
- FIELD WELDING IS NOT PERMITTED, UNLESS SPECIFICALLY INDICATED OTHERWISE ON THESE DRAWINGS.
- ALL FILLET WELDS SHALL BE MADE USING THE SHIELDED METAL ARC WELDING (SMAW) PROCESS WITH E70XX ELECTRODES UNLESS OTHERWISE NOTED.
- MISCELLANEOUS STEEL, INCLUDING THREADED RODS, CHANNELS, ANGLES, PLATES, AND BARS SHALL CONFORM TO ASTM A36 "CARBON STRUCTURAL STEEL", UNLESS OTHERWISE INDICATED.
- U-BOLTS SHALL CONFORM TO ASTM A36 OR A307 "CARBON STEEL BOLTS, STUDS, AND THREADED ROD 60000 PSI TENSILE STRENGTH". ALL U-BOLTS SHALL BE 1/2" DIAMETER IN 9/16" HOLES, UNLESS OTHERWISE NOTED. INSTALL DOUBLE NUTS ON ALL CONNECTIONS.
- ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 "ANCHOR BOLTS, STEEL, 36, 55, AND 105-KSI YIELD STRENGTH", GRADE 36.
- STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS CONFORMING TO ASTM A325 "STRUCTURAL BOLTS, STEEL, HEAT TREATED, 120/105 KSI MINIMUM TENSILE STRENGTH". BOLTS SHALL BE 3/4 INCH DIAMETER, TYPE X, UNLESS OTHERWISE NOTED.
- MATCHING NUTS SHALL BE HEAVY HEX TYPE, CONFORMING TO ASTM A563 "CARBON AND ALLOY STEEL NUTS". WASHERS, WHERE REQUIRED, SHALL CONFORM TO ASTM F436 "HARDENED STEEL WASHERS".
- FIELD CONNECTIONS SHALL BE BOLTED UNLESS OTHERWISE INDICATED. ALL BOLTED CONNECTIONS SHALL BE MADE WITH NOT LESS THAN TWO (2) HIGH STRENGTH BOLTS, OR EQUIVALENT WELD.
- ALL STEEL SUPPORTS SHALL BE INSTALLED WITH DOUBLE NUTS AND SHALL BE INSTALLED SNUG TIGHT.
- STRUCTURAL CONNECTIONS SHALL BE SNUG TIGHT IN ACCORDANCE WITH THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", UNLESS OTHERWISE NOTED.
- BOLTS IN SLIP-CRITICAL CONNECTIONS SHALL BE FULLY PRETENSIONED BY THE TURN-OF-NUT METHOD IN ACCORDANCE WITH THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
- ANCHOR BOLTS SHALL BE TENSIONED BY THE TURN-OF-NUT METHOD AFTER GROUTING OF BASE PLATES.
- ALL HOLES FOR BOLTS SHALL BE 1/16 INCH LARGER THAN THE BOLT DIAMETER WITH AN EDGE DISTANCE OF AT LEAST 1 1/2 TIMES THE BOLT DIAMETER AND A SPACING OF AT LEAST 3 TIMES THE BOLT DIAMETER. ALL BOLTS SHALL BE PROVIDED WITH PALNUTS OR LOCK NUTS
- CONTRACTOR SHALL COMPLY WITH AWS D1.1 "STRUCTURAL WELDING CODE - STEEL" FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES".
- METAL DECK SHALL BE FORMED STEEL DECK AS MANUFACTURED BY VULCRAFT, INC. OR APPROVED EQUAL. DECK SHALL BE FABRICATED

FROM GALVANIZED STEEL CONFORMING TO ASTM A653, "STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANNEALED) BY THE HOT-DIP PROCESS", STRUCTURAL QUALITY. COATING SHALL CONFORM TO CLASSIFICATION G60.

- ALL OPENINGS REQUIRED IN THE DECK WHICH ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE CUT IN THE FIELD ONLY AS APPROVED BY THE ENGINEER.
- GRATING SHALL BE TYPE "GW" GALVANIZED WELDED STEEL BAR GRATING AS MANUFACTURED BY MCNICHOLS, OR APPROVED EQUAL. BEARING BARS SHALL BE AS FOLLOWS:

EXTERIOR GRATING	1" x 3/16"	SERRATED
INTERIOR GRATING	1" x 3/16"	PLAIN
ALUMINUM	1 1/4"x3/16"	GAL SERIES

BAND ALL EDGES, AND ATTACH TO SUPPORTING MEMBERS AT 18" ON CENTER WITH MODEL GG GALVANIZED G-CLIPS AS MANUFACTURED BY GRATING FASTENERS INC.

- EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ2 OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE 4-3/4" UNLESS OTHERWISE NOTED.
- ADHESIVE ANCHOR ASSEMBLIES SHALL BE AS MANUFACTURED BY HILTI OR ENGINEER APPROVED EQUAL, AS FOLLOWS:

BASE MATERIAL	ANCHOR SYSTEM
HOLLOW CMU OR BRICK	HIT HY-270
CONCRETE	HIT HY-200

INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- HAMMER DRILLS ARE NOT TO BE USED WHEN DRILLING HOLES FOR SLEEVE OR EXPANSION BOLTS INSTALLED IN MASONRY BLOCKS/BRICKS.
- ALL INTERIOR STRUCTURAL STEEL SHALL BE SHOP PRIME COATED WITH A RUST-INHIBITIVE PRIMER EXCEPT AREAS TO BE FIREPROOFED NEED NOT BE PAINTED. SURFACE PREPARATION SHALL BE IN ACCORDANCE WITH THE PAINT MANUFACTURER'S RECOMMENDATIONS. AREAS WHICH MAY BE INACCESSIBLE AFTER INSTALLATION SHALL RECEIVE TWO (2) COATS OF PRIMER. FINISH PAINT AS DIRECTED BY OWNER/CARRIER.
- FIELD CONNECTIONS AND DAMAGED OR ABRADED AREAS OF SHOP PRIME COAT SHALL BE TOUCH-UP PAINTED WITH COMPATIBLE FIELD PRIMER.
- ALL EXTERIOR STEEL SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- ALL EXTERIOR BOLTS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780 "REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS", USING GALVANIZING COMPOUND AS MANUFACTURED BY ZINGA-USA OR ZINC KOTE, OR ENGINEER APPROVED EQUAL, WITH A MINIMUM METALLIC ZINC CONTENT OF 95% BY WEIGHT IN DRY FILM. DRY FINISHED COATING THICKNESS SHALL BE 3 MILS MINIMUM. DAMAGED AREAS OF STEEL SHALL BE REPAINTED TO MATCH ANY EXISTING FINISH (IF APPLICABLE).
- STEEL WORK SHALL BE SUBJECT TO SPECIAL INSPECTIONS DURING CONSTRUCTION AS REQUIRED BY THE CODE.
- CONTRACTOR TO REMOVE MASTIC ON THE EXISTING WALL/PARAPET AT EVERY STEEL SUPPORT ATTACHMENT AND REPOINT MASONRY AS REQUIRED. A BED OF SILICONE SHALL BE APPLIED ALL AROUND THE STEEL SUPPORT ATTACHMENT TO MAKE IT WEATHERPROOF.
- ALL HOLES TO BE ADDED IN THE FIELD SHALL BE PUNCHED OR DRILLED. NO HOLE BURNING SHALL BE ALLOWED. REPAIR GALVANIZING IN ACCORDANCE WITH ASTM A780.
- THE NOTES CONTAINED HEREIN ARE NOT PROJECT SPECIFIC. THE CONTRACTOR SHALL UTILIZE ALL NOTES WHICH SOLELY PERTAIN TO THE WORK DEPICTED ON THESE DRAWINGS.

## HILTI TESTING NOTES:

IF REQUIRED PER HILTI SPECIFICATIONS. CONTRACTOR SHALL RETAIN HILTI TO TEST AND CERTIFY THE ADHESIVE ANCHORS SPECIFIED IN THE CONSTRUCTION DRAWINGS TO BE INSTALLED IN MASONRY. A MINIMUM OF ONE (1) ANCHOR PER CONNECTION SHALL BE TESTED. FOR ANTENNA MOUNTS, A MINIMUM OF 25% OF ANCHORS PER SECTOR SHALL BE TESTED. THE LOAD TO THE ANCHORS SHALL BE APPLIED USING A STEEL TEST FRAME THAT IS ADEQUATE TO CARRY THE PULL

TEST LOADS. APPLY A TENSILE LOAD SPECIFIED AND RECOMMENDED BY THE ANCHOR MANUFACTURER ONTO THE ANCHOR TO BE TESTED. MAINTAIN THE LOAD FOR AT LEAST TWO MINUTES AFTER SPECIFIED LOAD IS REACHED. IF ANY TESTED ANCHOR IN A CONNECTION FAILS TO REACH THE SPECIFIED LOAD CAPACITY, ALL ANCHORS WITHIN THAT CONNECTION SHALL BE TESTED. ENGINEER OF RECORD OR A SPECIAL INSPECTOR SHALL BE PRESENT ON SITE DURING THE ANCHOR TESTS. TEST RESULTS SHALL BE DOCUMENTED BY HILTI AND FURNISHED TO ENGINEER OF RECORD UPON COMPLETION. ANCHORS WILL BE VISUALLY INSPECTED ALONG WITH THE SURROUNDINGS AFTER TESTING.

## MASONRY NOTES:

- DESIGN AND CONSTRUCTION OF ALL MASONRY WORK SHALL CONFORM TO ACI 530 AND 530.1 STANDARDS "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", AND "SPECIFICATIONS FOR MASONRY STRUCTURES".
- CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT HOLLOW LOAD BEARING UNITS CONFORMING TO ASTM C90 "LOADBEARING CONCRETE MASONRY UNITS", TYPE I (MOISTURE-CONTROLLED), GRADE N. COMPRESSIVE STRENGTH OF MASONRY (f'm) SHALL NOT BE LESS THAN 2,000 PSI. COLOR AND FINISH AS INDICATED, SUBJECT TO APPROVAL BY OWNER.
- MORTAR SHALL CONFORM TO ACTM C270 "MORTAR FOR UNIT MASONRY" TYPE M OR S.
- GROUT SHALL CONFORM TO ASTM C476 "GROUT FOR REINFORCED AND NON-REINFORCED MASONRY". ALL CELLS SHALL BE FILLED SOLID WITH GROUT AT REINFORCING.
- ALL MASONRY SHALL BE CONSTRUCTED IN RUNNING BOND.
- HORIZONTAL JOINT REINFORCING SHALL BE STANDARD WEIGHT LADDER TYPE (2-NO. 9 GAGE SIDE RODS) SPACED VERTICALLY AS INDICATED.
- INJECT GROUT INTO WEAK MORTAR WHERE THERE IS SEPARATION BETWEEN JOINTS.

## MASONRY REPAIR NOTES:

- REPAIR ALL EXISTING BULKHEAD/PARAPET WALL CRACKS WITHIN 3 FEET RADIUS OF THE MOUNT ATTACHMENT POINTS.
- CONTRACTOR IS RESPONSIBLE TO REPAIR ANY BRICK FRACTURE OR MORTAR CRACKS THAT MAY DEVELOP DURING CONSTRUCTION OF ANTENNA MOUNTS AND EQUIPMENT FRAME.
- DO NOT HAMMER DRILL INTO EXISTING BULKHEAD/PARAPET.
- CONTRACTOR TO REMOVE TAR/MASTIC ON THE EXISTING BULKHEAD/PARAPET AT EVERY MOUNT ATTACHMENT AND REPOINT MASONRY AS REQUIRED. A BEAD OF SILICONE SHALL BE APPLIED BEHIND AND ALL AROUND THE MOUNT ATTACHMENT TO MAKE IT WEATHERPROOF.
- REPAIR WORK FOR BULKHEAD/PARAPET TO BE PREFORMED/COMPLETED IN TWO STAGES, AS FOLLOWS:

STAGE 1: OUTSIDE FACE

- REPAIR WORK TO BE DONE IN SECTIONS NOT TO EXCEED 4 FEET IN BULKHEAD/PARAPET LENGTH.
- RE-POINT ALL AREAS AND REPLACE ALL CRACKED/DAMAGED BRICK AS REQUIRED.
- REPLACE PARGING TO MATCH EXISTING BUILDING AND PAINT TO MATCH.
- RESEAL ALL ANCHOR HOLES WEATHER-TIGHT.

STAGE 2: INSIDE FACE/BELOW ROOF LINE

- REPAIR WORK TO BE DONE IN SECTIONS NOT TO EXCEED 4 FEET IN BULKHEAD/PARAPET LENGTH.
- REMOVE LOOSE BULKHEAD/PARAPET MEMBRANE A MAXIMUM OF 3 FEET FROM EDGE OF ATTACHMENT.
- RE-POINT ENTIRE AREA AS REQUIRED.
- RESEAL AND REPLACE BULKHEAD/PARAPET MEMBRANE AND FLASHING TO MATCH EXISTING.



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Mountaintop, NY 10953 www.tectonicengineering.com  
Project Contact Info  
1279 Route 300  
Newburgh, NY 12550 Phone: (845) 567-6656

WORK ORDER NUMBER 10272.34 DRAWN BY BMY

NO.	DATE	ISSUE
0	05/24/2022	FOR COMMENT
1	06/03/2022	PER COMMENTS

RELEASED BY	DATE

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0 1 2 3  
ORIGINAL SIZE IN INCHES  
SITE INFORMATION

SCHNEIDER AVE  
RE PN: 20202142274  
LC: 636584

SITE ADDRESS

303 MAIN ST  
VILLAGE OF HIGHLAND FALLS  
ORNAGE COUNTY  
NY 10928

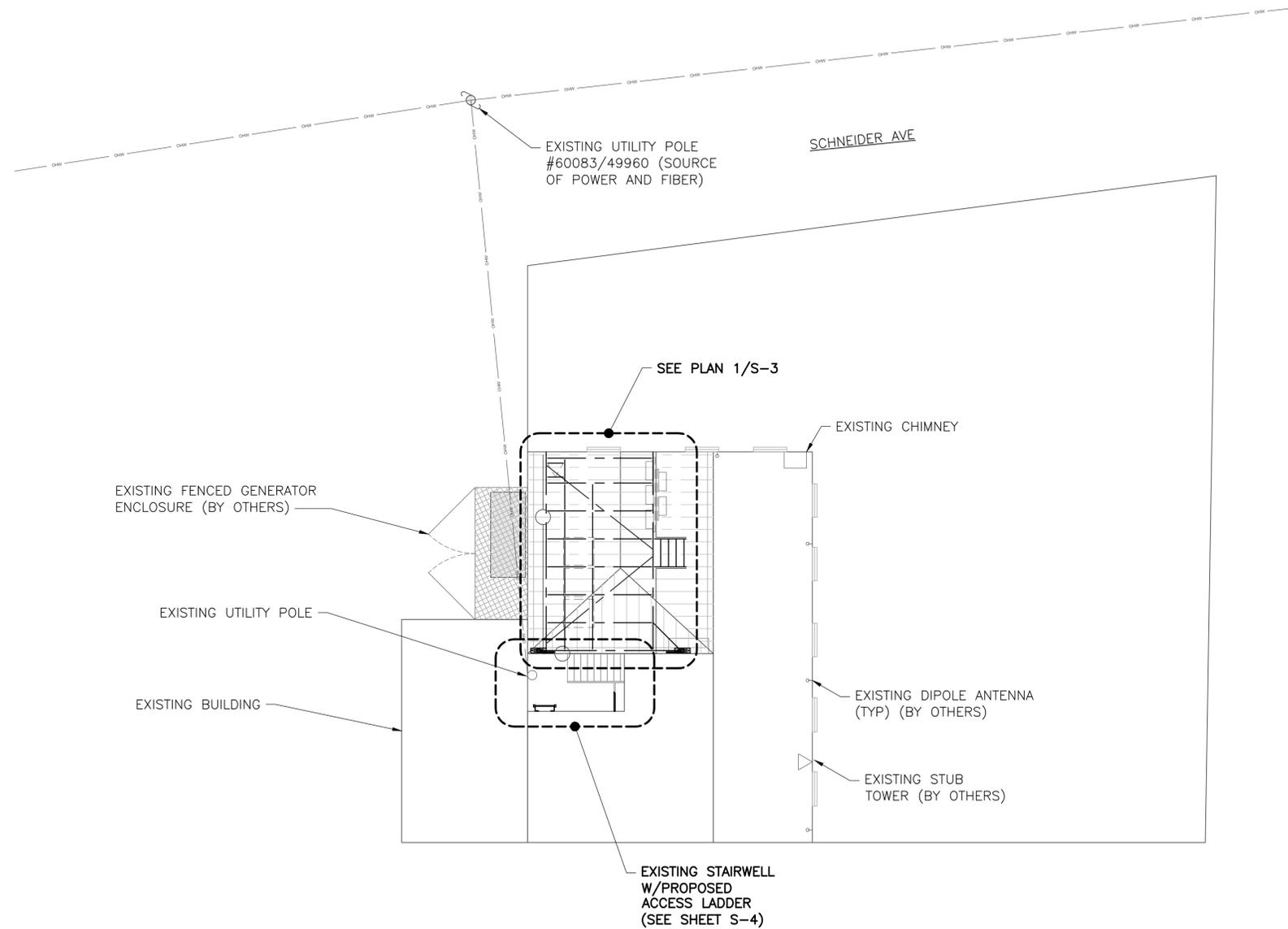
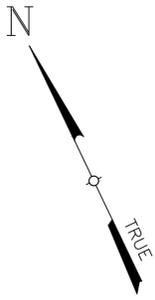
SHEET TITLE

GENERAL NOTES

SHEET NUMBER

S-1





1 OVERALL SITE PLAN  
S-2  
SCALE: 1/8" = 1'-0" (11x17 SIZE)  
1/16" = 1'-0" (22x34 SIZE)

**verizon**

1275 JOHN STREET, SUITE 100  
WEST HENRIETTA, NY 14586

**Tectonic**

70 Pleasant Hill Road  
P.O. Box 37  
Mountaintop, NY 10953  
www.tectonicengineering.com  
Phone: (845) 534-5656

WORK ORDER NUMBER 10272.34  
DRAWN BY BWY

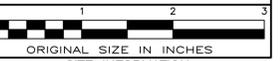
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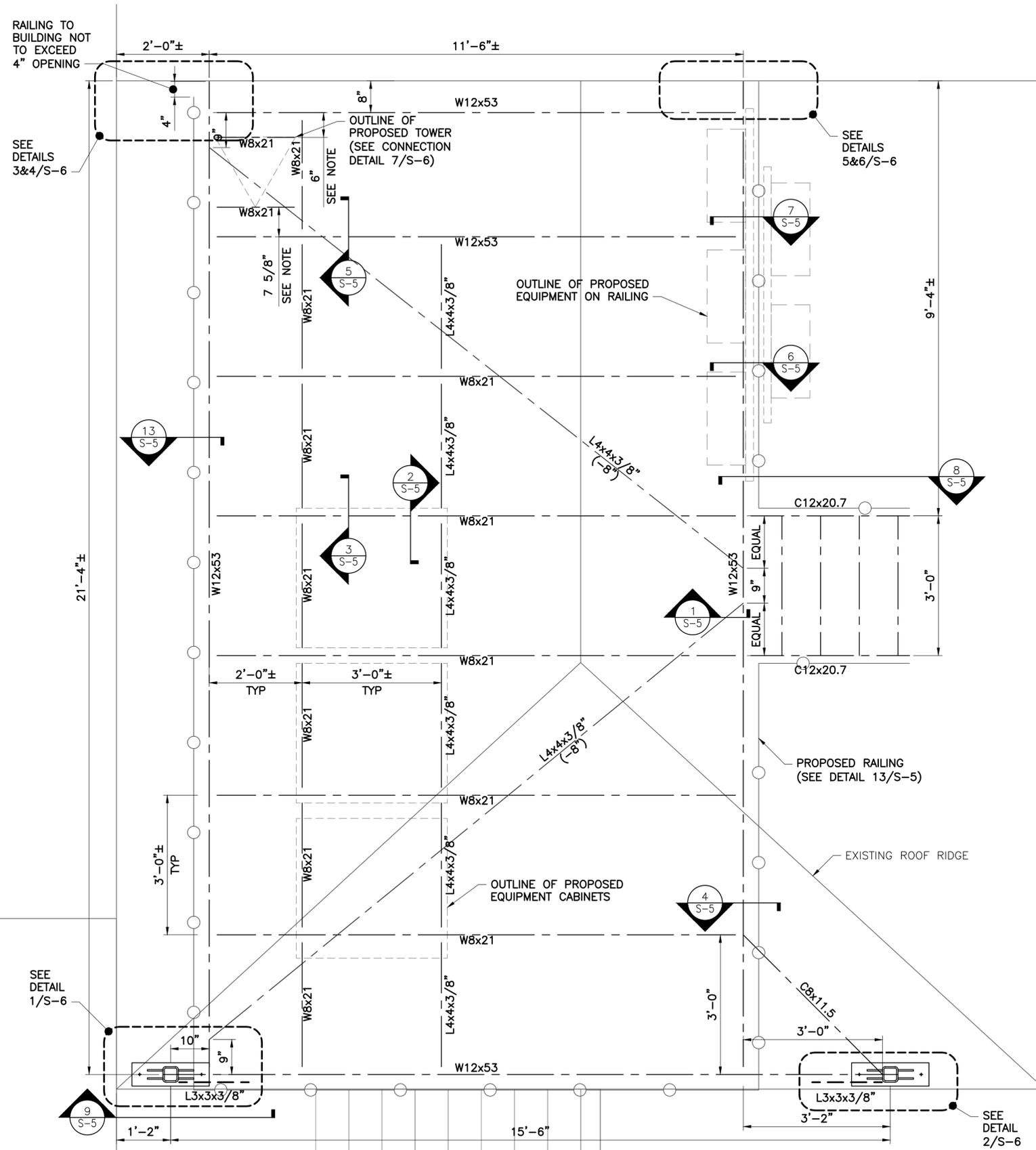
SITE INFORMATION  
SCHNEIDER AVE  
RE PN: 20202142274  
LC: 636584

SITE ADDRESS  
303 MAIN ST  
VILLAGE OF HIGHLAND FALLS  
ORNAGE COUNTY  
NY 10928

SHEET TITLE  
OVERALL SITE PLAN

SHEET NUMBER

**S-2**



**TOWER NOTES**

NOTE:  
 1. FINAL LOCATION OF BEAMS SHALL BE COORDINATED WITH MANUFACTURER'S BOLTING PATTERN. STEEL SHALL BE ADJUSTED AS REQUIRED.  
 2. TOWER MANUFACTURER SHALL PROVIDE FINAL DESIGN OF TOWER, INCLUDING ANCHOR BOLTS AND BASE PLATE TO THE ENGINEER OF RECORD FOR FINAL COORDINATION PRIOR TO FABRICATION OF STEEL. TOWER MANUFACTURER IS RESPONSIBLE FOR PROVIDING THE CONNECTION DESIGN, INCLUDING BOLTS TO THE MAIN STEEL FRAME AND BUILDING WALL ANGLE.

**1**  
 S-3  
**EQUIPMENT STEEL FRAME PLAN**  
 SCALE: 3/4" = 1'-0" (11x17 SIZE)  
 1-1/2" = 1'-0" (22x34 SIZE)



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 Project Contact Info  
 1279 Route 300  
 Newburgh, NY 12550 Phone: (845) 567-6656

WORK ORDER NUMBER 10272.34 DRAWN BY B.W.Y.

NO.	DATE	ISSUE
0	05/24/2022	FOR COMMENT
1	06/03/2022	PER COMMENTS

RELEASED BY DATE

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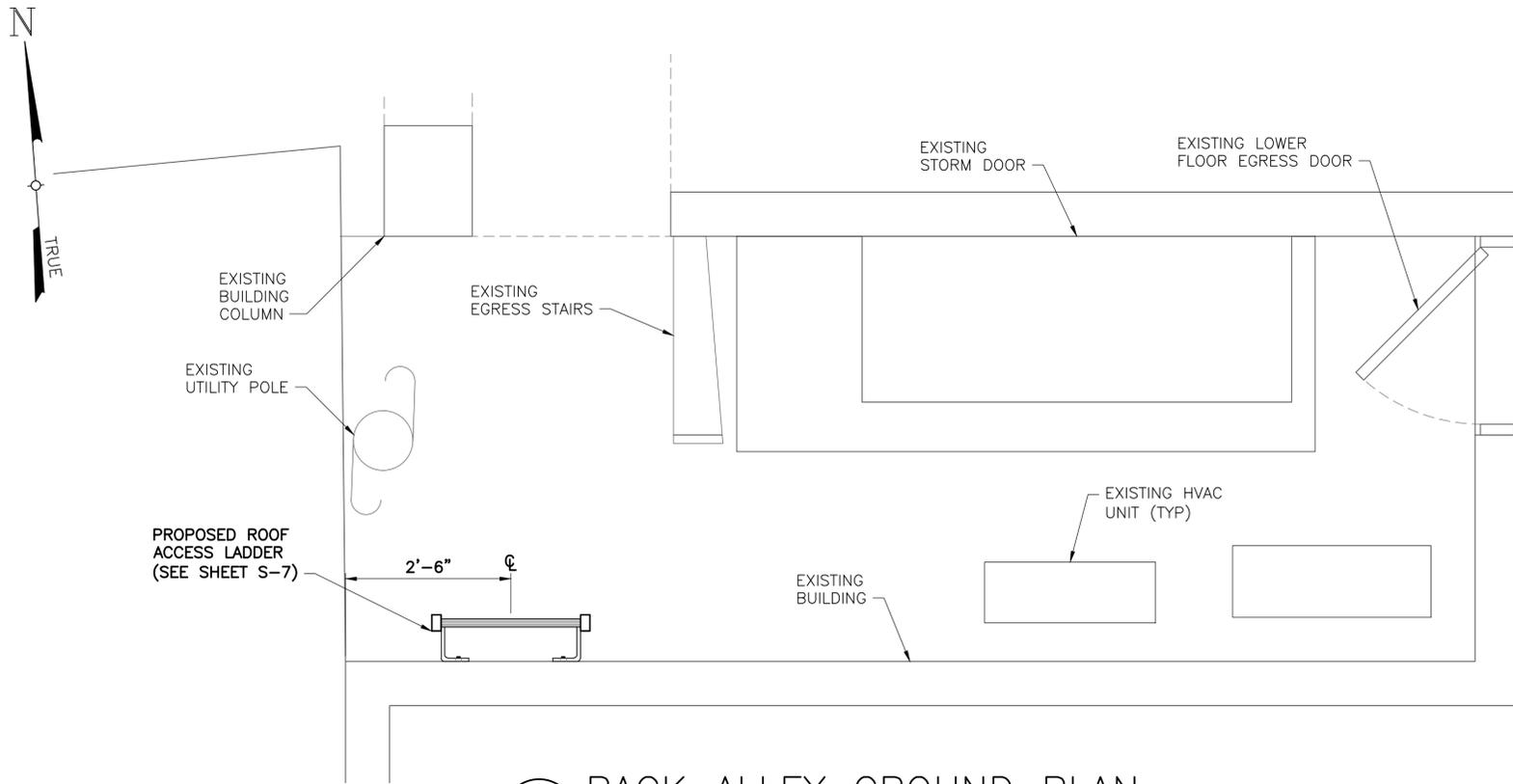
ORIGINAL SIZE IN INCHES  
**SITE INFORMATION**  
 SCHNEIDER AVE  
 RE PN: 20202142274  
 LC: 636584

SITE ADDRESS  
 303 MAIN ST  
 VILLAGE OF HIGHLAND FALLS  
 ORNAGE COUNTY  
 NY 10928

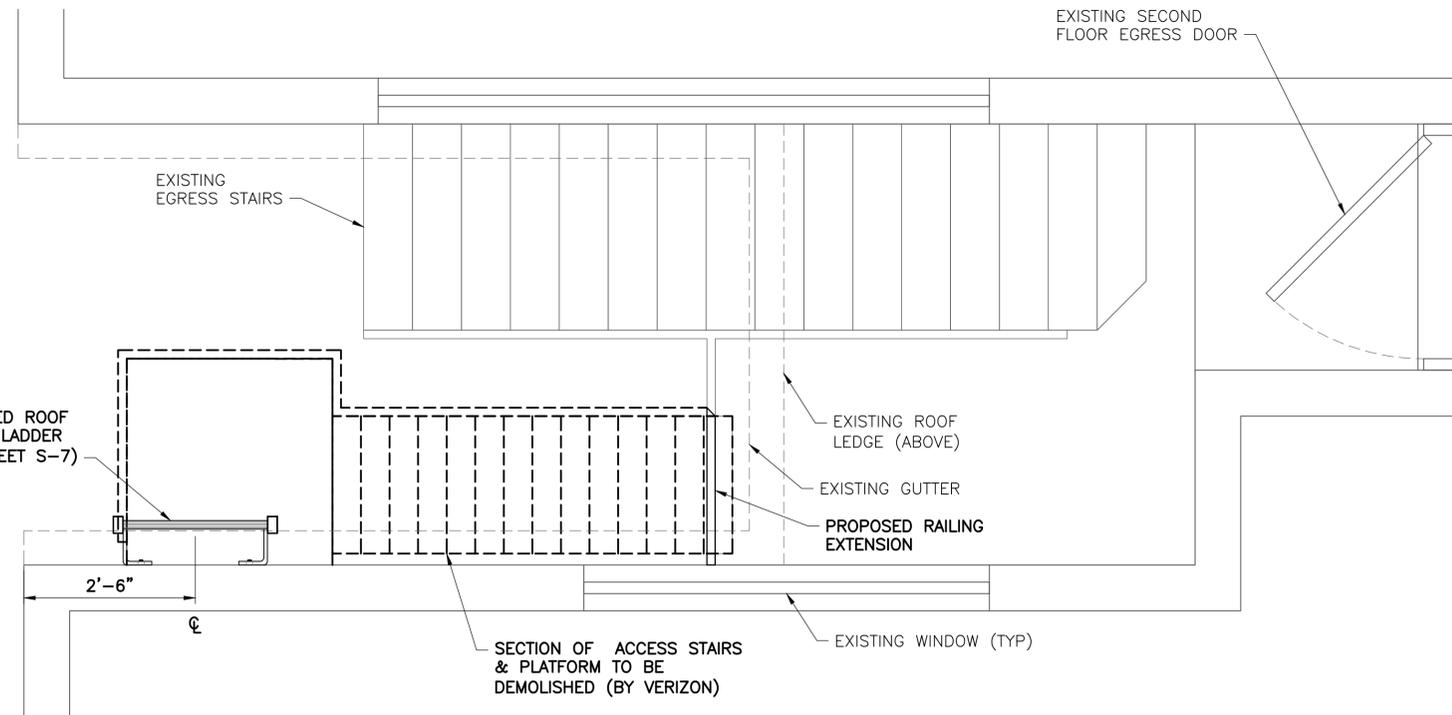
SHEET TITLE  
**EQUIPMENT FRAME PLAN**

SHEET NUMBER

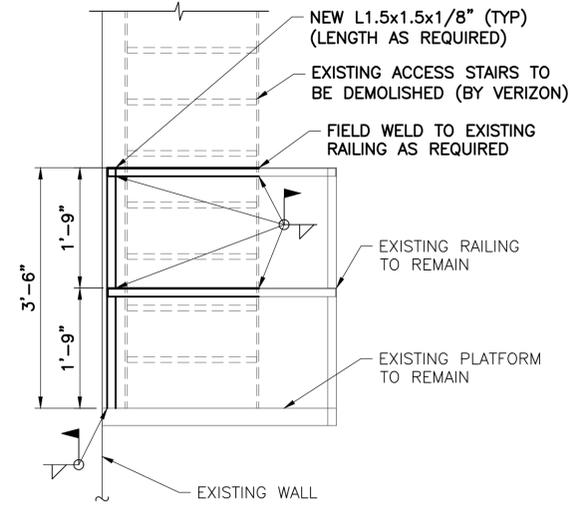
**S-3**



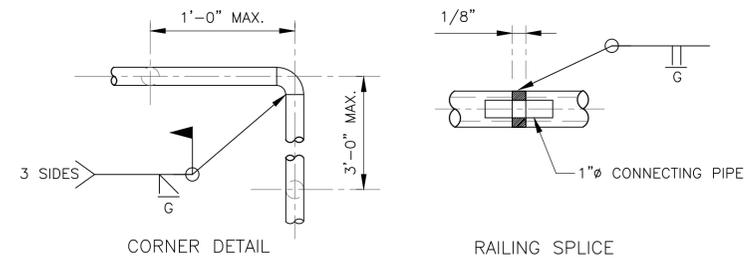
1 BACK ALLEY GROUND PLAN  
S-4 SCALE: 3/4" = 1'-0" (11x17 SIZE)  
1-1/2" = 1'-0" (22x34 SIZE)



2 BACK ALLEY SECOND FLOOR PLAN  
S-4 NOTE: EXISTING STAIRS TO BE RE-PAINTED & BUILDING TO BE CLEANED.  
ALL EXISTING HOLES FROM STAIR REMOVAL TO BE PATCHED IN LIKE AND KIND.  
SCALE: 3/4" = 1'-0" (11x17 SIZE)  
1-1/2" = 1'-0" (22x34 SIZE)



3 RAILING ELEVATION  
S-4 SCALE: 3/4" = 1'-0" (11x17 SIZE)  
1-1/2" = 1'-0" (22x34 SIZE)



4 RAILING DETAILS  
S-4 SCALE: 1" = 1'-0" (11x17 SIZE)  
2" = 1'-0" (22x34 SIZE)

verizon

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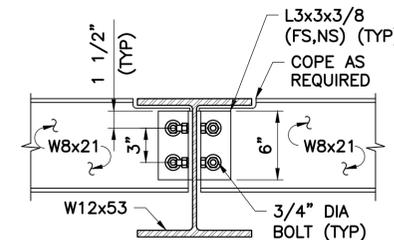
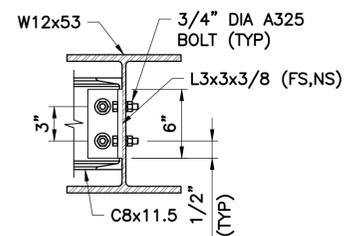
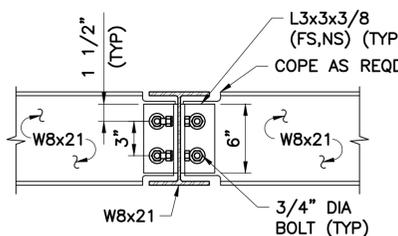
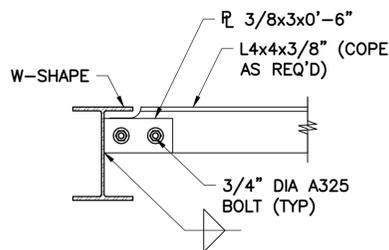
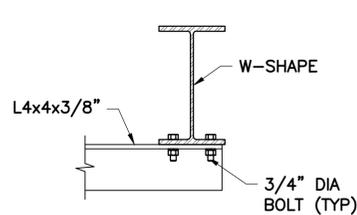
303 MAIN ST  
VILLAGE OF HIGHLAND FALLS  
ORNAGE COUNTY  
NY 10928

SHEET TITLE

BACK ALLEY PLANS  
ELEVATION & DETAIL

SHEET NUMBER

S-4



NOTE: CONTRACTOR TO USE 3/8\"/>

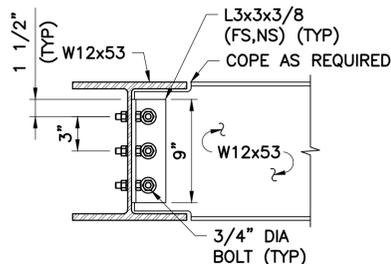
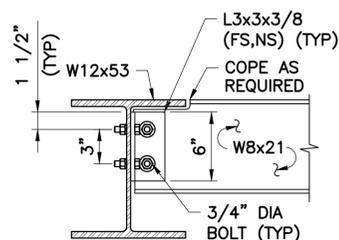
1 CONNECTION DETAIL  
S-5 SCALE: 1-1/2\"/>

2 CONNECTION DETAIL  
S-5 SCALE: 1-1/2\"/>

3 CONNECTION DETAIL  
S-5 SCALE: 1-1/2\"/>

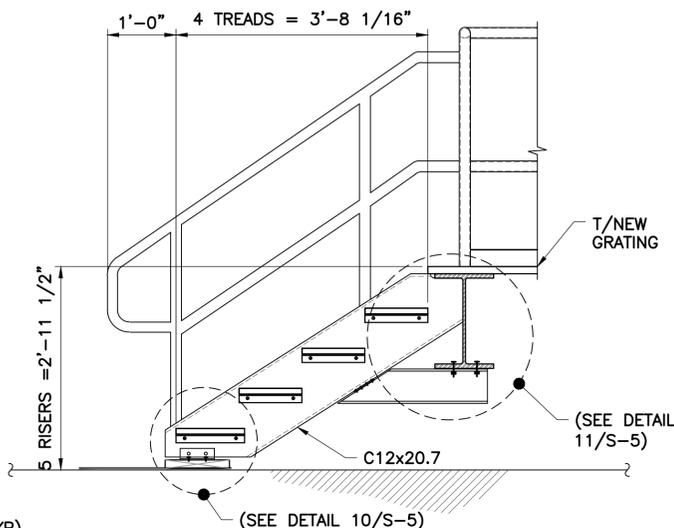
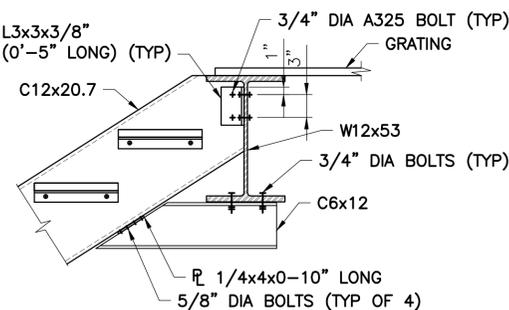
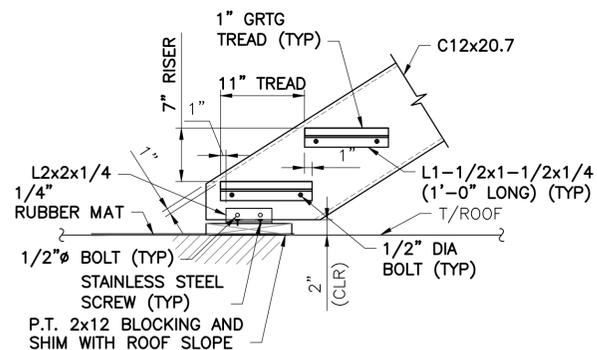
4 CONNECTION DETAIL  
S-5 SCALE: 1-1/2\"/>

5 CONNECTION DETAIL  
S-5 SCALE: 1-1/2\"/>

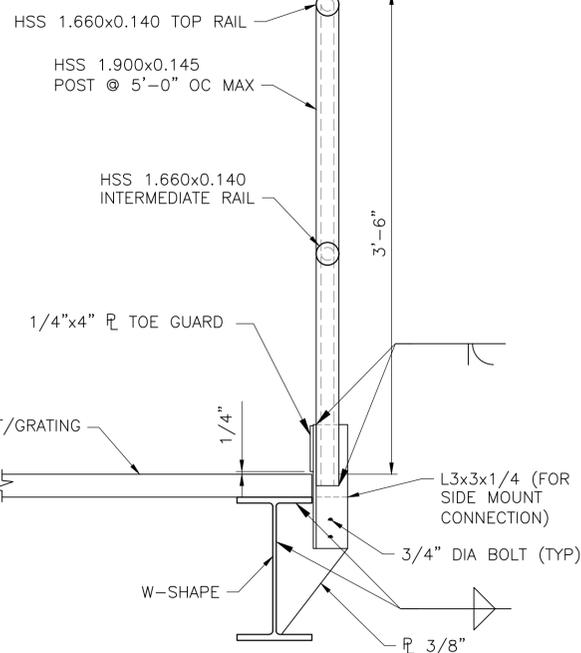


6 CONNECTION DETAIL  
S-5 SCALE: 1-1/2\"/>

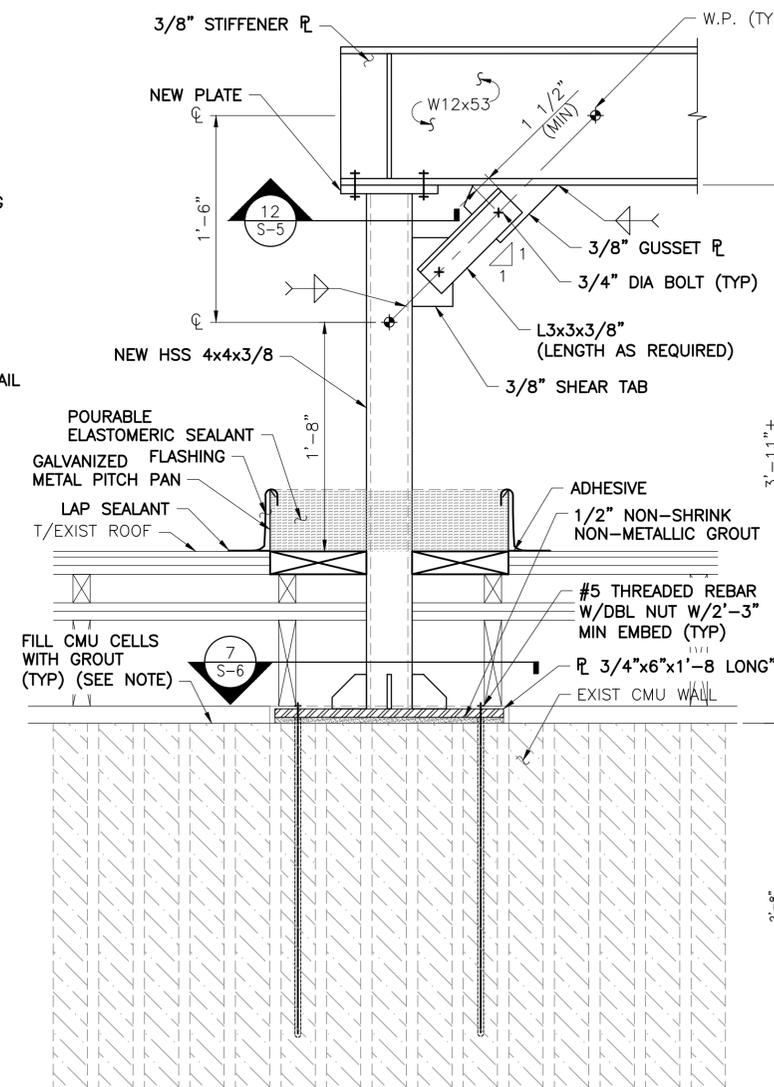
7 CONNECTION DETAIL  
S-5 SCALE: 1-1/2\"/>



8 STAIR SECTION  
S-5 SCALE: 3/4\"/>



13 CONNECTION DETAIL  
S-5 SCALE: 1-1/2\"/>



NOTES:  
1. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN FIELD.  
2. SILL PLATE TO BE CUT AND REMOVED AS REQUIRED AND JOISTS TO BE SHIMMED ONCE CONNECTION HAS BEEN INSTALLED.  
3. CUT AND FRAME OUT JOISTS AS REQUIRED TO ACCOMMODATE THE PROPOSED CONNECTION INSTALLATION.

9 CONNECTION DETAIL  
S-5 SCALE: 1-1/2\"/>

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0 1 2 3  
ORIGINAL SIZE IN INCHES

SITE INFORMATION

SCHNEIDER AVE  
RE PN: 20202142274  
LC: 636584

SITE ADDRESS

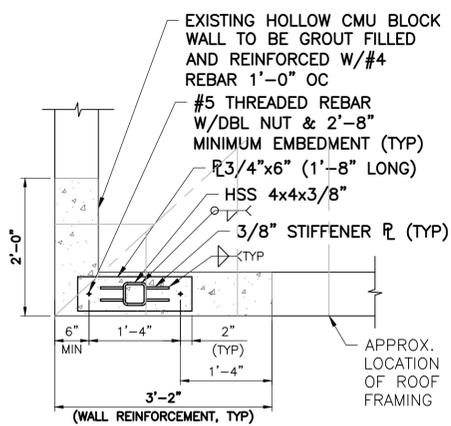
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VILLAGE OF HIGHLAND FALLS  
ORNAGE COUNTY  
NY 10928

SHEET TITLE

SECTIONS & DETAILS

SHEET NUMBER

S-5

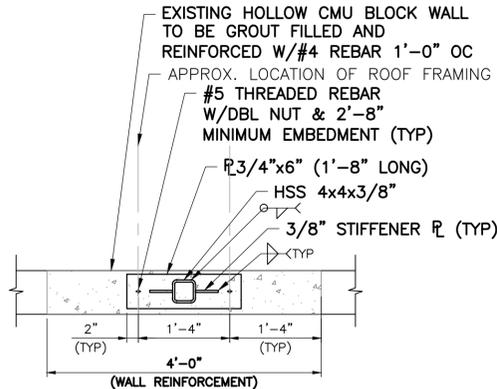


NOTES:

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- CUT AND FRAME OUT JOISTS AS REQUIRED TO ACCOMMODATE THE PROPOSED CONNECTION INSTALLATION.

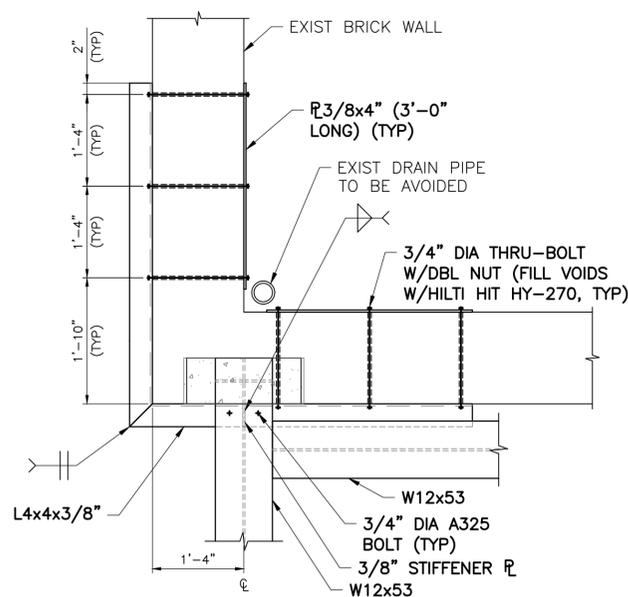
1 POST DOWN DETAIL

SCALE: 3/4" = 1'-0" (11x17 SIZE)  
1 1/2" = 1'-0" (22x34 SIZE)



2 POST DOWN DETAIL

SCALE: 3/4" = 1'-0" (11x17 SIZE)  
1 1/2" = 1'-0" (22x34 SIZE)

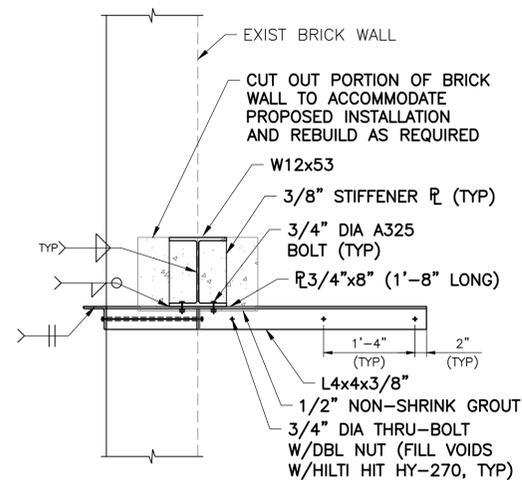


NOTES:

- CONTRACTOR SHALL VERIFY IF OBSTRUCTIONS ARE PRESENT PRIOR TO FABRICATION OF STEEL AND RELOCATE EXIST OBSTRUCTIONS AS REQUIRED TO ACCOMMODATE INSTALLATION.
- CONTRACTOR SHALL COAT THRU-BOLTS W/SILICONE AND SEAL ALL CRACKS WEATHER TIGHT.
- CONTRACTOR SHALL RE-FLASH AS REQUIRED IF EXISTING FLASHING IS DISTURBED DURING THE PROPOSED INSTALLATION.
- CONTRACTOR TO APPLY BEAD OF SILICONE AROUND TOP 3 SIDES OF NEW ANGLE AND PLATE.
- CONTRACTOR TO SHALL VERIFY COMPOSITION OF WALL TO BE 16" MULTI-WYTHE SOLID BRICK PRIOR TO FABRICATION OF STEEL. IF EXISTING CONDITIONS DIFFER FROM NOTED CONTACT ENGINEER OF RECORD IMMEDIATELY.

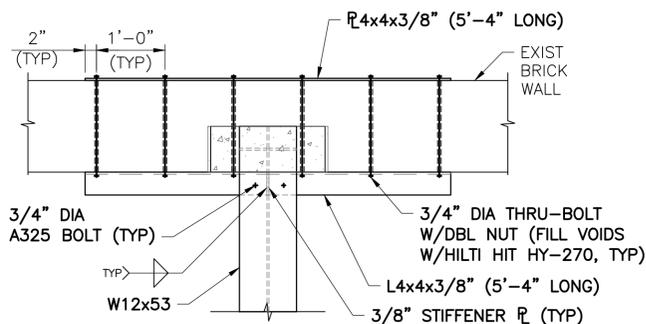
3 PITCH POCKET DETAIL

SCALE: 3/4" = 1'-0" (11x17 SIZE)  
1 1/2" = 1'-0" (22x34 SIZE)



4 PITCH POCKET DETAIL

SCALE: 3/4" = 1'-0" (11x17 SIZE)  
1 1/2" = 1'-0" (22x34 SIZE)

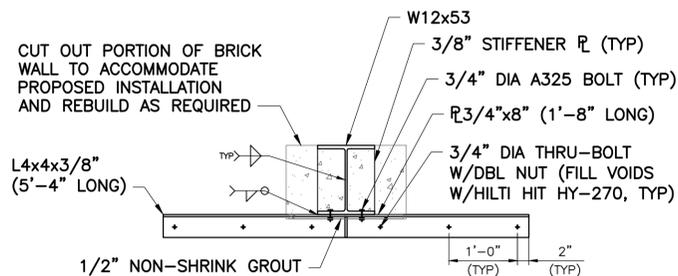


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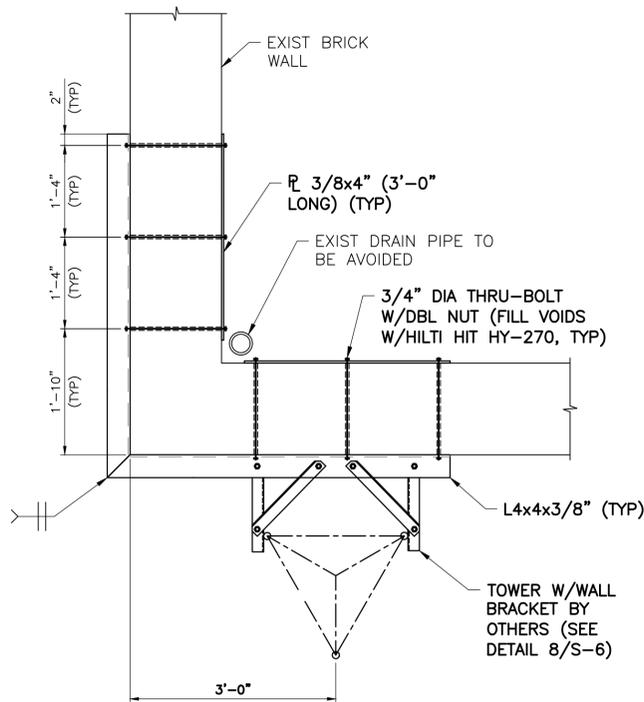
5 PITCH POCKET DETAIL

SCALE: 3/4" = 1'-0" (11x17 SIZE)  
1 1/2" = 1'-0" (22x34 SIZE)



6 PITCH POCKET DETAIL

SCALE: 3/4" = 1'-0" (11x17 SIZE)  
1 1/2" = 1'-0" (22x34 SIZE)



7 TOWER CONNECTION DETAIL

SCALE: 3/4" = 1'-0" (11x17 SIZE)  
1 1/2" = 1'-0" (22x34 SIZE)

ITEM	QTY	PART NO.	DESCRIPTION	WEIGHT
1	1	C500851	ANGLE, WALL BRACKET	5.5#
2	2	C500851	ANGLE, WALL BRACKET	6.4#
3	2	C500851	ANGLE, WALL BRACKET	7.5#
4	2	U-BOLT ASSEMBLY, 3/8"		1.5#
5	6	C4002603	BOLT ASSEMBLY, 1/2" x 1 1/2" A325	1.5#
6	6	C4003100	FLATWASHER, 1/2" x 1 1/2"	0.15#

APPROX. WEIGHT = 25 LBS.

NOTE:  
1. AT THESE LOCATIONS, USE FLATWASHER AS A SHIM BETWEEN MATERIAL.  
2. ALL MATERIAL FOR MOUNTING THE WALL BRACKET ASSEMBLY TO THE BUILDING IS TO BE SUPPLIED BY OTHERS. (6) 3/16" HOLES PROVIDED IN WALL MOUNT ANGLE TO ACCOMMODATE 16" OR 24" STD. SPACING.

8 TOWER CONNECTION SPEC

SCALE: 3/4" = 1'-0" (11x17 SIZE)  
1 1/2" = 1'-0" (22x34 SIZE)



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0 1 2 3 ORIGINAL SIZE IN INCHES

SITE INFORMATION

SCHNEIDER AVE  
RE PN: 20202142274  
LC: 636584

SITE ADDRESS

303 MAIN ST  
VILLAGE OF HIGHLAND FALLS  
ORNAGE COUNTY  
NY 10928

SHEET TITLE

SECTIONS & DETAILS

SHEET NUMBER

S-6



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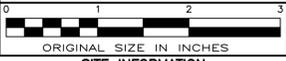
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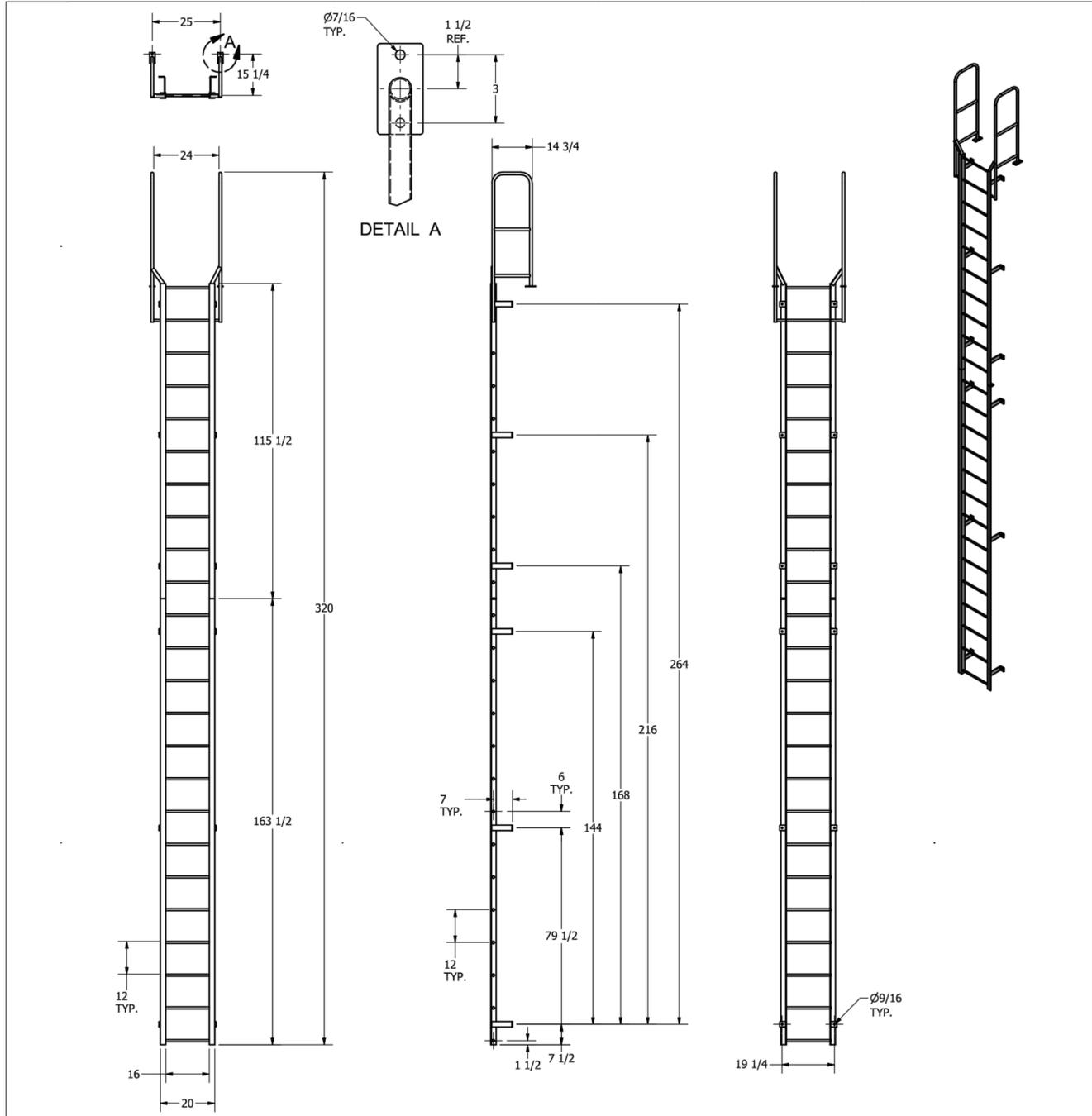
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ORNAGE COUNTY  
NY 10928

SHEET TITLE  
SECTIONS & DETAILS

SHEET NUMBER  
S-7



NOTE:  
STANDOFF BRACKET LOCATIONS  
ARE +/- 1"

DO NOT PREDRILL HOLES IN THE STRUCTURE.  
HOLES SHOULD BE MATCH DRILLED TO ENSURE  
ALIGNMENT.

3D MODEL AVAILABLE IN STEP FILE FORMAT ON OUR WEBSITE

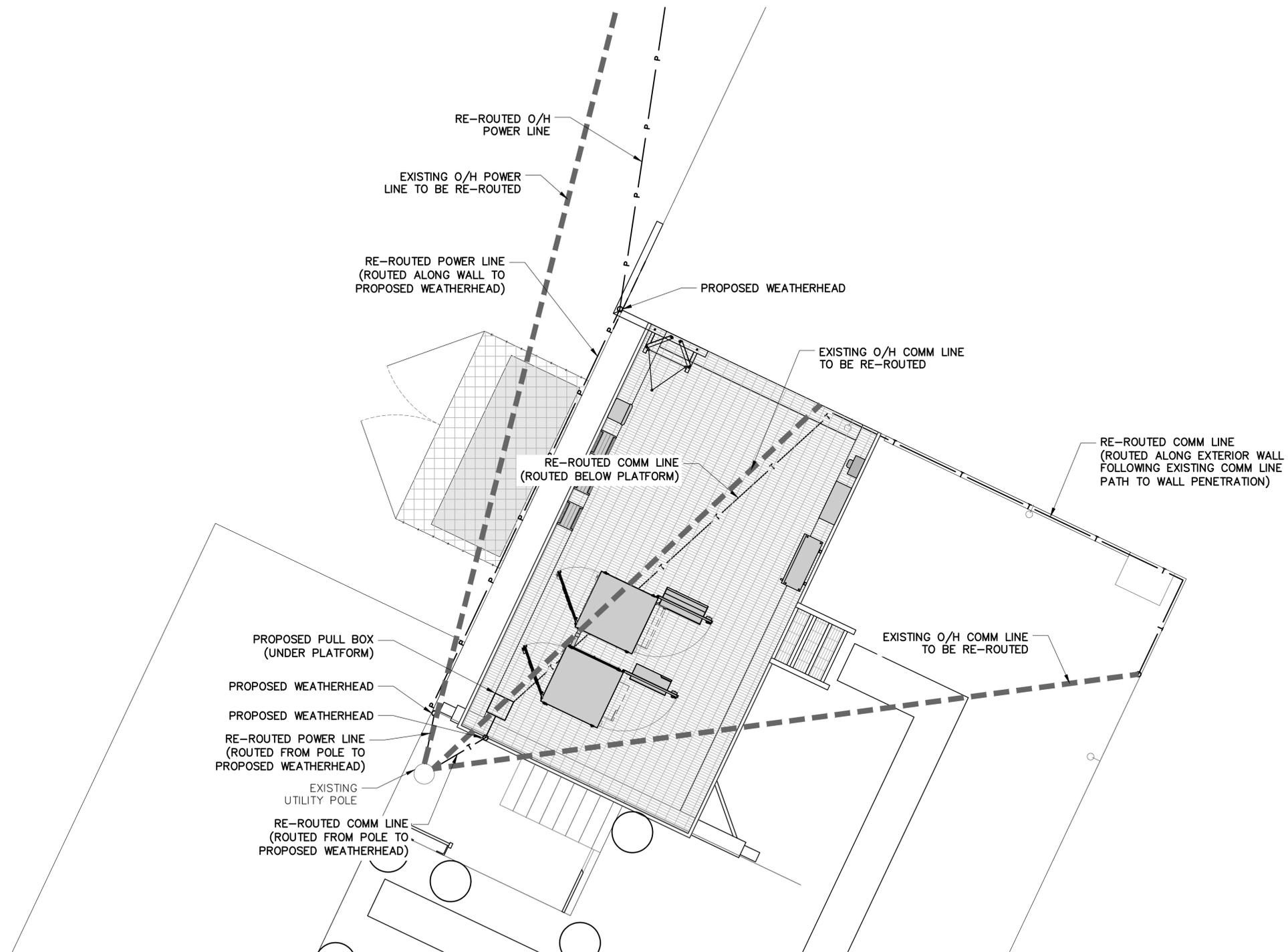
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APPROVED		TITLE
PART D0570352 F24W FOR CATALOG		F24W
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SIZE C	DWG NO D0570352 F24W FOR CATALOG.dwg	REV A
QUOTE		SHEET 1 OF 1

NOTE: BOTTOM OF LADDER MAY NEED TO BE CUT TO FIT IN LOCATION. BOTTOM RUNG SHALL BE NO LESS THAN 3" & NO GREATER THAN 12" TO GRADE.

# FIXED LADDER SPECIFICATION

1  
S-7

SCALE: NTS



1  
E-1

UTILITY RE-ROUTING PLAN

SCALE: 1" = 10' (11x17 SIZE)  
1" = 5' (22x34 SIZE)



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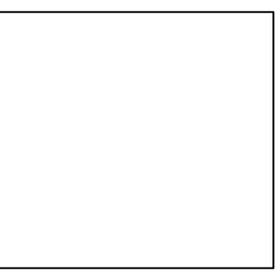
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SHEET TITLE  
UTILITY RE-ROUTING PLAN

SHEET NUMBER  
**E-1**



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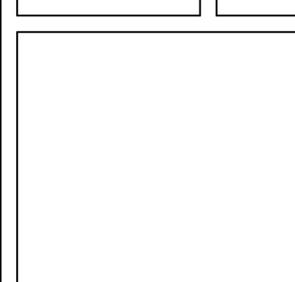
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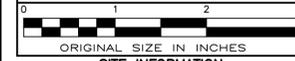
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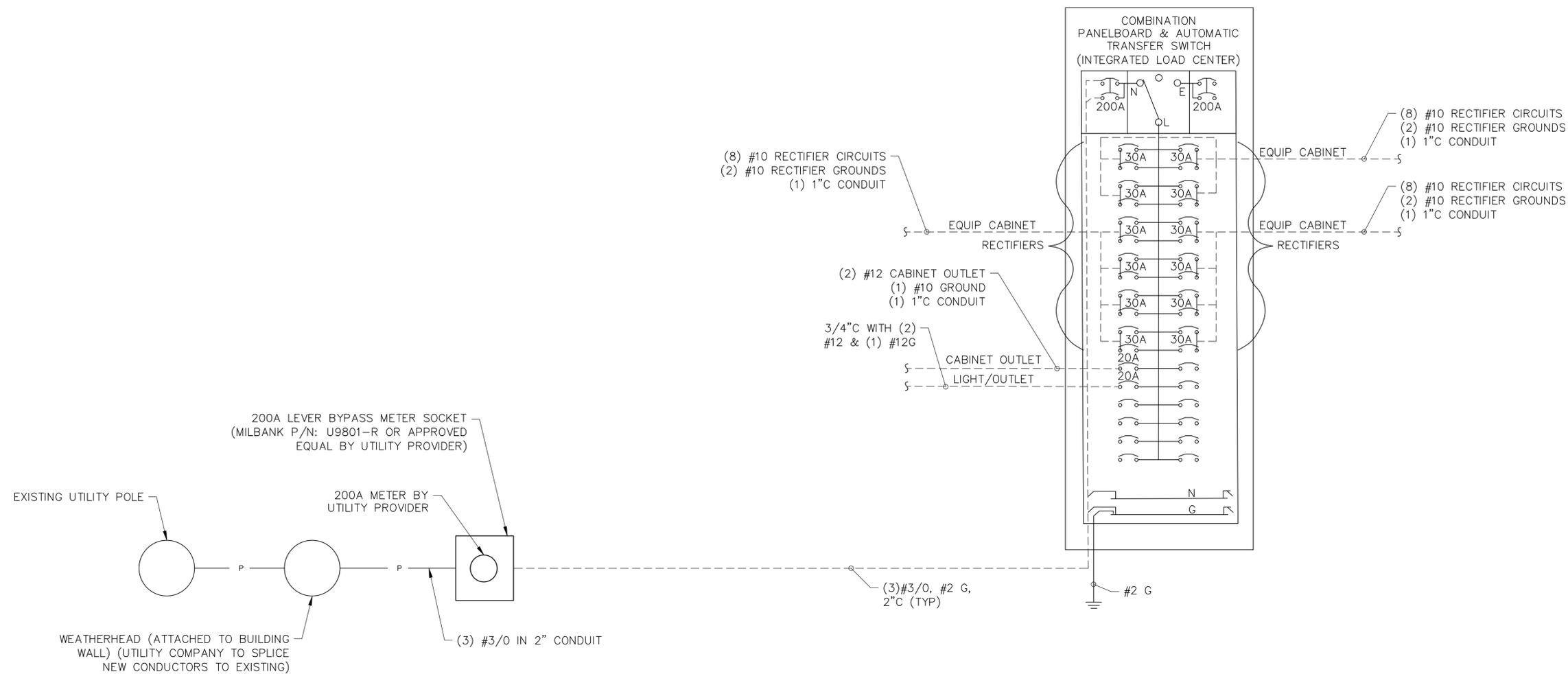
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NY 10928

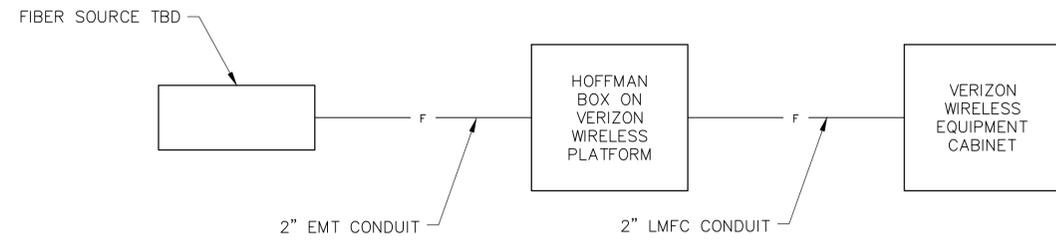
SHEET TITLE  
UTILITY DIAGRAMS  
& DETAILS

SHEET NUMBER

E-2



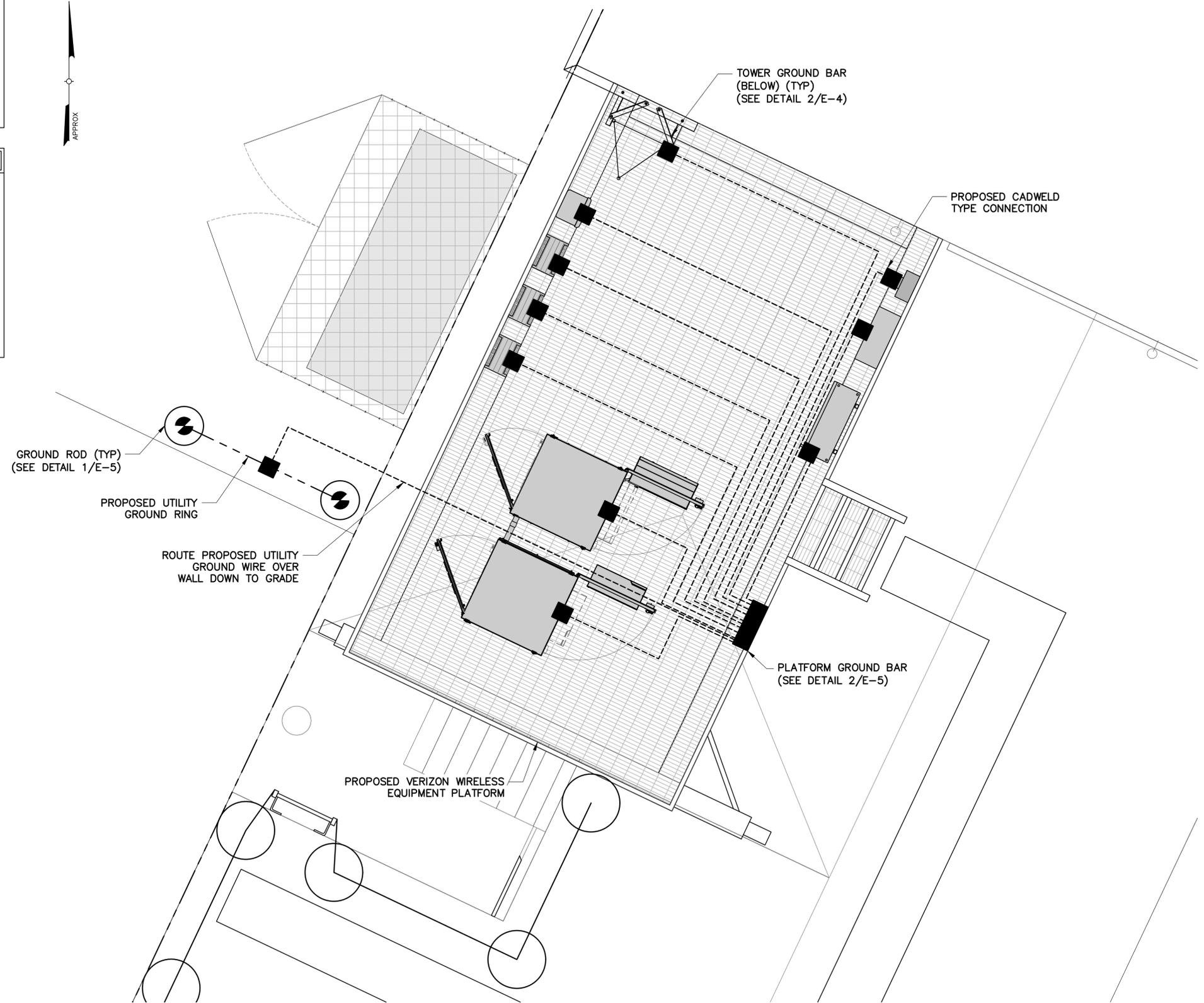
1 SINGLE LINE DIAGRAM  
E-2 SCALE: NTS



2 TELEPHONE LINE DIAGRAM  
E-2 SCALE: NTS

LEGEND			
	METER		COPPER GROUND BAR
	CIRCUIT BREAKER		GROUND CONDUCTOR BY CONTRACTOR
	CADWELD TYPE CONNECTION BY CONTRACTOR		GROUND RING BY CONTRACTOR
	COAXIAL CABLE SHIELD GROUND KIT CONNECTION		GROUND ROD WITH TEST WELL
	COMPRESSION FITTING GROUND CONNECTION		GROUND ROD

ABBREVIATIONS			
A	AMPERE	W	WIRE
C	CONDUIT	WP	WEATHERPROOF
GND	GROUND	∅	PHASE
KWH	KILOWATT HOUR	TGB	TOP GROUND BAR
P	POLE	MGB	MASTER GROUND BAR
SN	SOLID NEUTRAL	BGB	BOTTOM GROUND BAR
SW	SWITCH	EGB	EXISTING GROUND BAR
V	VOLT		



**1**  
E-3  
**GROUNDING PLAN**  
SCALE: 1" = 4' (11x17 SIZE)  
1" = 2' (22x34 SIZE)



1275 JOHN STREET, SUITE 100  
WEST HENRIETTA, NY 14586



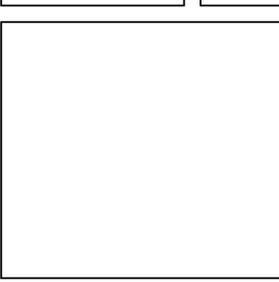
PRactical SOLUTIONS. EXCEPTIONAL SERVICE.  
Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.  
Project Contact Info: 36 British American Blvd. Phone: (518) 783-1630  
Suite 101 (800) 829-6331  
Latham, NY 12110 www.tectonicengineering.com

WORK ORDER NUMBER 10272.34 DRAWN BY TRR

NO.	DATE	ISSUE
0	6/10/22	FOR COMMENT

NO.	DATE	ISSUE

RELEASED BY DATE



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ORIGINAL SIZE IN INCHES

SITE INFORMATION  
SCHNEIDER AVE  
RE PN: 20202142274  
LC: 636584

SITE ADDRESS

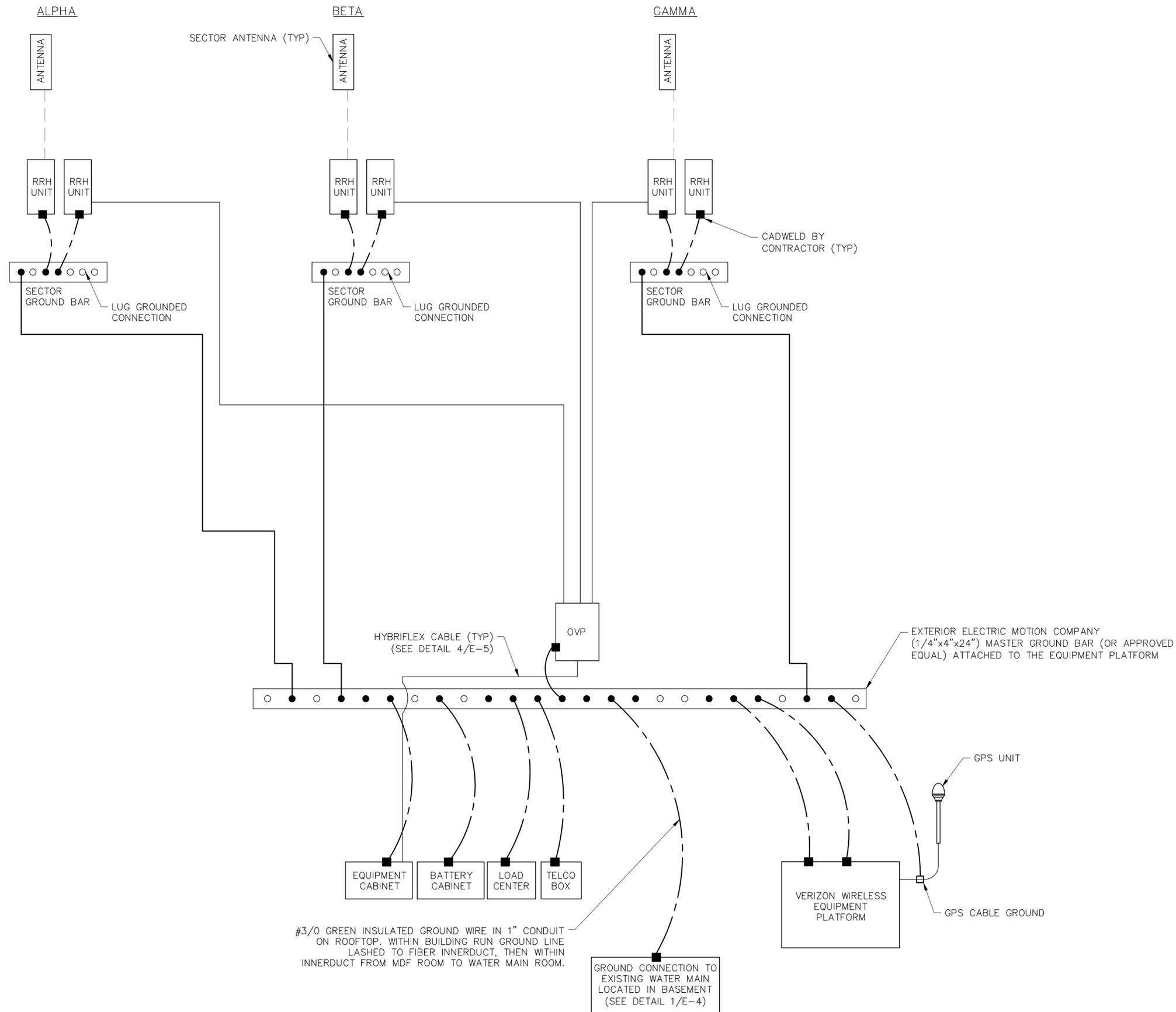
303 MAIN ST  
VILLAGE OF HIGHLAND FALLS  
ORANGE COUNTY  
NY 10928

SHEET TITLE

GROUNDING PLAN

SHEET NUMBER

**E-3**



GROUNDING RISER DIAGRAM  
SCALE: NTS



1275 JOHN STREET, SUITE 100  
WEST HENRIETTA, NY 14586



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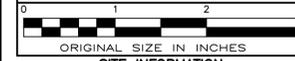
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0	6/10/22	FOR COMMENT

RELEASED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

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SITE INFORMATION  
SCHNEIDER AVE  
RE PN: 20202142274  
LC: 636584

SITE ADDRESS  
303 MAIN ST  
VILLAGE OF HIGHLAND FALLS  
ORANGE COUNTY  
NY 10928

SHEET TITLE  
GROUNDING RISER DIAGRAM

SHEET NUMBER  
E-4

WORK ORDER NUMBER	DRAWN BY
10272.34	TRR

NO.	DATE	ISSUE
0	6/10/22	FOR COMMENT

RELEASED BY		DATE

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**SITE INFORMATION**

SCHNEIDER AVE  
RE PN: 20202142274  
LC: 636584

**SITE ADDRESS**

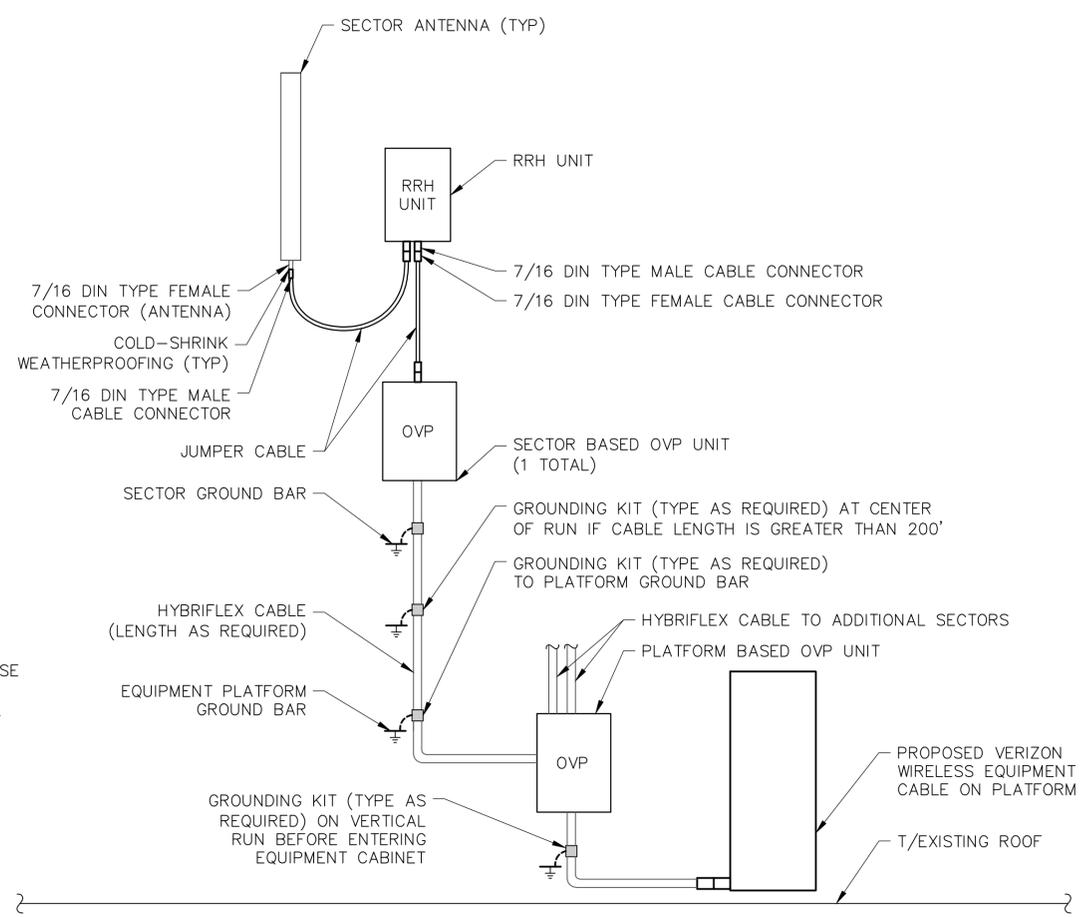
303 MAIN ST  
VILLAGE OF HIGHLAND FALLS  
ORANGE COUNTY  
NY 10928

**SHEET TITLE**

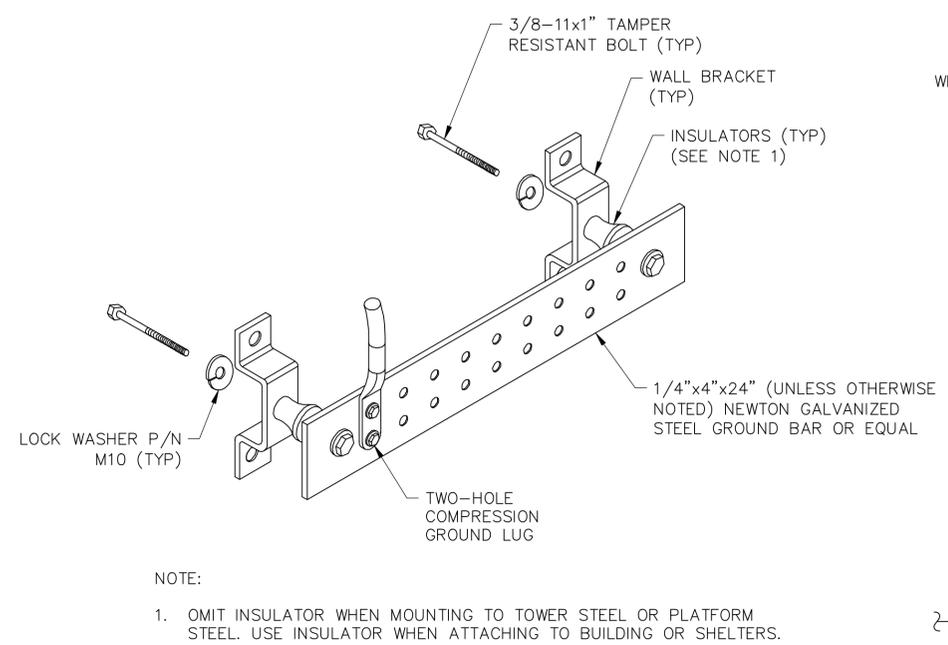
GROUNDING DETAILS

**SHEET NUMBER**

**E-5**

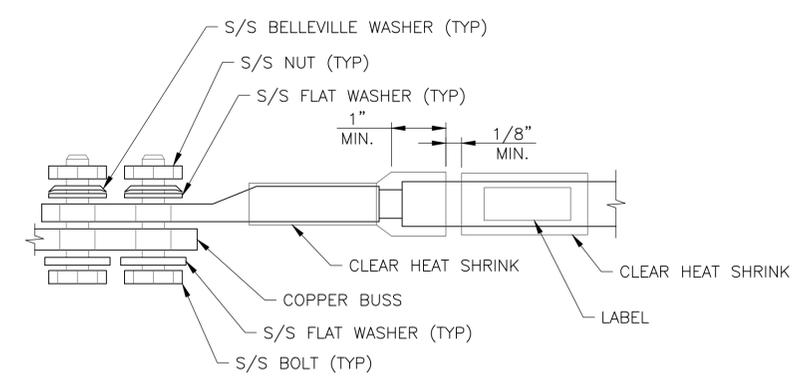


**3 HYBRID CABLE SCHEMATIC**  
SCALE: NTS



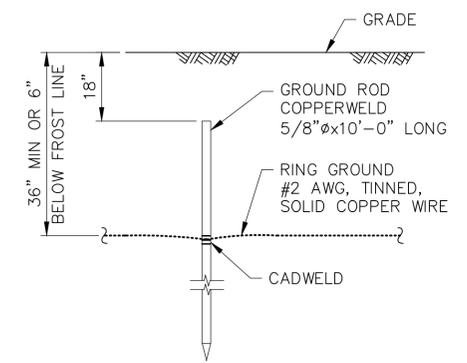
NOTE:  
1. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATOR WHEN ATTACHING TO BUILDING OR SHELTERS.

**2 GROUND BUS BAR DETAIL**  
SCALE: NTS

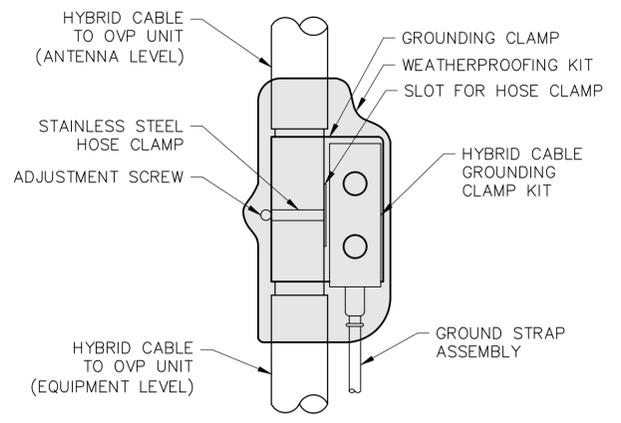


NOTE:  
1. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES; COAT ALL SURFACES WITH KOPR-SHIELD BEFORE MATING.  
2. FOR GROUND BOND TO STEEL ONLY; INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL; COAT ALL SURFACES WITH KOPR-SHIELD.

**5 LUG GROUND CONNECTION**  
SCALE: NTS



**1 GROUND ROD**  
SCALE: NTS



**4 HYBRID CABLE GROUNDING DETAIL**  
SCALE: NTS