LANDKEY CONSULTING, PLLC
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Castleton, VT 05735
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October 23, 2025

60-DAY ADVANCE NOTICE - TELECOMMUNICATIONS TOWER

To: Parties Entitled to Notice under 30 V.S.A. § 248a(e) & Procedures Order as listed in the Service List below

Re: Wireless Communications Facility at
100 Seward Hill Rd., East Wallingford, VT

Greetings:

Vertex - Vermont Towers LLC proposes to construct a 140' lattice communications tower to provide reliable wireless services coverage by Bell Atlantic Mobile Systems, LLC d/b/a Verizon Wireless ("Verizon Wireless") and future wireless service providers (the "Facility" or "Project").

The proposed Facility will be located on property with an address of 100 Seward Hill Rd., East Wallingford, VT owned by Arthur P. Seward, David B. Seward and Lowell W. Seward (Louise Seward, surviving spouse) (the "Property" or "Site").

This letter provides 60 days advance notice that Vertex together with Verizon Wireless intends to submit to the Vermont Public Utility Commission ("PUC" or "Commission") a petition for approval to construct the Facility at the Site pursuant to 30 V.S.A. § 248a.

The petition will be filed pursuant to the PUC's Sixth Amended Order implementing standards and procedures for issuance of a certificate of public good for communications facilities pursuant to 30 V.S.A. § 248a, dated September 21, 2018 (the "Procedures Order").

This notice is being **filed** electronically with the Commission via its ePUC system to distribute to the Vermont Agency of Natural Resources, the Vermont Department of Public Service, the Vermont Division for Historic Preservation, and the Vermont Agency of Transportation. It is being **served** on the parties listed on the service list below.

The Procedures Order, and additional information concerning review of communications projects under 30 V.S.A. § 248a, is available at the PUC office in Montpelier and on its website: http://puc.vermont.gov/

This advance notice is supported by the following exhibits:

Exhibit A: A statement of the rights and opportunities available to municipal representatives and planning officials under 30 V.S.A. §§ 248a(c)(2), (e)(2), (m), (n), (o), and (p).

Exhibit B: Detailed Site Plans for the proposed Facility.

Exhibit C: The results of an FCC TOWAIR database search indicating that the proposed Facility does not require registration with the FAA and will have no impact on air navigation under current FAA regulations.

Exhibit D: A printout from the Vermont ANR Natural Resources Atlas demonstrating that the proposed Facility location and design have been pre-evaluated for environmental impacts.

1. Project Description

Vertex is a leading independent developer of wireless communications infrastructure in the multistate New England region. Vertex is in the business of constructing multi-tenant towers and other structures for wireless service providers under long-term lease contracts and has relationships with all of the major wireless service providers operating in the New England Market. Vertex has developed many similar facilities throughout New England, including Vermont, and has many more similar facilities in various stages of the development process.

Construction of the proposed Facility will enhance wireless service coverage for Verizon Wireless in the Town of Wallingford and surrounding communities. The enhancement of wireless service coverage in the Town is desirable to the public convenience for personal use of wireless services by area residents and for community safety in times of public crisis and natural disaster. Improved wireless communications service is also an attractive service to businesses in and visitors to the area. The proposed Facility will also accommodate future co-location by other wireless service providers in Wallingford and the surrounding area, which will minimize the total number of towers in the community.

The proposed Facility will consist of the following components:

A. A new 140' aboveground level ("AGL") lattice telecommunications tower to support proposed antennas and equipment of Verizon Wireless at a height of 135' and future co-located telecommunications providers at heights of 125', 115' and 105';

B. Addition of approximately **15,304** square feet of temporary earth disturbance, which includes a 60' x 60' fenced in compound within a 75' x 75' lease area and a total of **26,325** square feet of permanent ground disturbance;

C. Ancillary improvements and appurtenances located near the base of the tower to be used in connection with operation of the Facility including a concrete pad for Verizon Wireless' equipment shelter and generator and space for concrete pads for future co-locators;

D. Access to the Facility from Seward Hill Road.

The proposed Facility will require **more than** 10,000 square feet of permanent earth disturbance. Consequently, the Project is of **regular size and scope** as defined in 30 V.S.A. § 248a.

2. Process for Review of Communications Facilities under 30 V.S.A. § 248a

Pursuant to 30 V.S.A. § 248a, the Commission may grant a certificate of public good for

construction or installation of telecommunications facilities that are to be interconnected with other telecommunications facilities proposed or already in existence if, after review of the project, the Commission finds that the facilities will promote the general good of the State, consistent with the policies aimed at providing improved telecommunications technology to all Vermonters articulated by 30 V.S.A. § 202c(b).

Among the criteria considered by the Commission in evaluating each facility under 30 V.S.A. § 248a is whether a project is consistent with the recommendations of selectboards, municipal planning commissions and regional planning commissions. In turn, those recommendations can be based on municipal / regional plans, as well as telecommunications provisions in local zoning bylaws or a stand- alone ordinance. 30 V.S.A. § 248a(c)(2). Based on a review of the relevant municipal and regional planning documents, the Facility is consistent with the applicable substantive criteria.

3. Town & Regional Guidance

The **Wallingford Town Plan**, adopted June 4, 2018, emphasizes economic development as a community priority, noting residents' strong interest in expanding business opportunities. The Plan specifically identifies forest and recreation areas as suitable for large-scale uses such as agriculture, forestry, recreation, wildlife refuge, and energy/telecommunications facilities.

The parcel proposed for this project falls within that forest category. The facility is designed as a multi-tenant tower, reducing the need for multiple structures in the area and thereby preserving the Town's commitment to its forested, recreational, and historic character. By co-locating providers on a single structure, the project safeguards scenic and natural resources while ensuring that residents and visitors can communicate reliably outdoors—supporting recreation, public safety, and quality of life—without creating undue aesthetic impacts.

In addition, the facility will directly advance the Town Plan's economic development goals. Reliable telecommunications infrastructure is essential for attracting and retaining local businesses, enabling remote work, supporting tourism and recreation-based enterprises, and helping existing businesses grow. The project therefore strengthens both the community's economic vitality and its commitment to conservation values**.**

The **Rutland Regional Plan**, adopted June 19, 2018, identifies wireless telephone service availability as a major unmet need in the region, particularly in rural areas that still lack reliable service. The Plan expressly recognizes the rapid increase in demand for telecommunications over the past decade and characterizes the lack of coverage as a serious concern. It encourages developers to work with towns early in the process of adding or altering telecommunications infrastructure and advocates infrastructure sharing by telecommunications facilities.

The proposed Facility aligns with these regional priorities: it is designed to accommodate multiple wireless service carriers, thereby reducing the number of towers needed in the region. This approach advances the stated goals of both the Town and Regional Plans while promoting the general good of the state under 30 V.S.A. § 202c(b). By increasing capacity for future collocation, the project will enable additional providers to expand wireless coverage, including travelers along public roadways, enhancing both safety and economic opportunity.

4. Opportunity to Comment; Contact for More Information

As a recipient of this notice, you or your organization will be notified when the petition is filed with the Commission, which will be at least 60 days and no longer than 180 days from the date the Commission receives this notice. Barring unforeseen circumstances, Vertex and Verizon Wireless will submit its petition on or shortly after December 22, 2025 or after 60 days have passed following the advance notice. During the advance notice period, should you have any questions relating to the Project, please direct all inquiries and/or comments to Fran Parisi at (401) 447-8500 or fparisi@plapc.com or you may contact me at the contact information provided in this letter.

Once the petition has been accepted for filing by with the Commission, any interested person may submit comments and/or seek to intervene in the proceeding within 30 days of the receipt of the notification that the petition has been filed, as further outlined in the links to the Commission siting guidance referenced on Exhibit A.

Warm regards,

Jennille Smith
Landkey Consulting

Attachments/Enclosures:

Exhibit A: A statement of the rights and opportunities available to municipal representatives and planning officials.
Exhibit B: Detailed Site Plans for the proposed Facility.
Exhibit C: The results of an FCC TOWAIR database search.
Exhibit D: A printout from Vermont ANR Natural Resources Atlas.

SERVICE LIST
Parties Entitled to Notice under 30 V.S.A. § 248a(e) & Procedures Order:

MUNICIPAL & REGIONAL OFFICES

Via US Mail and email Wallingford Town Clerk Jill Stone-Teer 75 School Street Wallingford, VT 05773 ***townclerk@wallingfordvt.com***	***Via US Mail and email*** Rutland Regional Commission Attn: Devon Neary PO Box 430 Rutland, VT 05702 ***devon@rutlandrpc.org***
Via US Mail and email Town of Wallingford Planning & Zoning Erika Berner, Zoning Administrator & Planning Commission Chair 75 School Street Wallingford, VT 05773 ***zoning@wallingfordvt.com***	***Via US Mail and email*** Town of Wallingford Selectboard Sandi Switzer, Town Administrator 75 School Street Wallingford, VT 05773 *selectboard@wallingfordvt.com*

SUBJECT PROPERTY OWNER

Via email Arthur P. Seward, David B. Seward and Lowell W. Seward (Louise Seward, surviving spouse) Louise Seward, et al. 37 Seward Hill Road E Wallingford, VT, 05742	***PARCEL ID: 0280030*** ***SPAN: 681-216-10961*** ***ASSOCIATED PARCEL ID: 0280102*** ***SPAN: 681-216-10902*** ***ASSOCIATED ADDRESSES:*** *100 SEWARD HILL RD., E. WALLINGFORD* *30 SEWARD HILL RD., E. WALLINGFORD*

ADJOINING LANDOWNERS (via US Mail only)
2025 Grand List – Wallingford
2025 Grand List – Mount Holly (*Where Specified*)

NAME	NOTICE ADDRESS	PARCEL ID SPAN
LOUISE SEWARD, ALTHEA L BRUNO	37 SEWARD HILL RD E WALLINGFORD, VT, 05742	0280037 681-216-10948
ANNA PEEL	4281 SUGAR HILL RD E WALLINGFORD, VT, 05742	0064281 681-216-10426
SHIRLEY LEE	4237 SUGAR HILL RD E WALLINGFORD, VT, 05742	0064237 681-216-10629
WALLINGFORD HISTORICAL SOCIETY	75 SCHOOL ST WALLINGFORD, VT, 05773	0064282 681-216-11375
ANNE C PACE	57 BILL FOX RD E WALLINGFORD, VT, 05742	0710057 681-216-10378
LOUISE SEWARD, ARTHUR SEWARD	37 SEWARD HILL RD E WALLINGFORD, VT, 05742	0064145 681-216-10960
RONALD J CARRARA & DONNA CARRARA	69 EAST WASHINGTON ST RUTLAND, VT, 05701	0450337 681-216-10201
FRED WOLF & ANN ELIZABETH WOLF	168 ALDEN LANE BOULDER, CO, 80304	0420451 681-216-11207
DONALD THOMPSON	27 GLOUCESTER STREET CLIFTON PARK, NY, 12065	0420305 681-216-11069
JAMES DERRENBACKER & LESLIE DERRENBACKER	12273 S ISTACHATTA RD FLORAL CITY, FL, 34436	0063358 681-216-10236

WILLIAM D JONES JR & CASEY Y JONES	3446 SUGAR HILL RD E WALLINGFORD, VT, 05742	0063446 681-216-11066
MCGOWAN FAMILY TRUST U/A/D 02/19/14	PO BOX 292 E WALLINGFORD, VT, 05742	0063487 681-216-11260
ROLAND Q SEWARD	4413 W MELROSE AVE TAMPA, FL, 33629	0063500 681-216-10951
SUGAR HILL LLC, ATTN: SHAWN THOMAS RBC TRUST CO (DELAWARE) LTD	130 REEF ROAD PALM CITY, FL, 33480	0063465 681-216-10954
AMY WORCESTER LIFE EST, ANDREW WORCESTER	274 OLD TOWN FARM WAY E WALLINGFORD, VT, 05742	0300274 681-216-11218
ANTHONY K BRUNO & SANDRA S BRUNO	30 SEWARD HILL RD E WALLINGFORD, VT, 05742	0300115 681-216-10110
SHANE FILSKOV & ANNE M FILSKOV	275 MARANVILLE RD E WALLINGFORD, VT, 05742	0290275 681-216-11283
NAOMI BOMBARDI-WILSON, BRYAN WILSON, TRISTAN V WILSON	155 FIELDSTONE WAY EAST WALLINGFORD, VT, 05742	0840155 681-216-10362
VT DOM LLC	259 FIELDSTONE WAY EAST WALLINGFORD, VT, 05742	0840259 681-216-10463
TIMOTHY S OBRIEN & TESS O OBRIEN	235 BUNKER HILL ST CHARLESTOWN, MA, 02129	0840339 681-216-10406

LEONARD ZIVITZ & SALLY ZIVITZ	4994 RT 140 EAST E. WALLINGFORD, VT, 05742	1404994 681-216-11232
JOHN B SEWARD	5618 ROUTE 140 EAST EAST WALLINGFORD, VT, 05742	1405618 681-216-10958
TODD GALIANO & DIANA FOURACRE	570 PARKER RD E WALLINGFORD, VT, 05742	0240570 681-216-11266
JOHN H. JOHNSTON & LUCINDA JOHNSTON	215 PARKER ROAD E WALLINGFORD, VT, 05742	0240215 681-216-10543
COLLEEN A KUBE	234 PARKER RD E WALLINGFORD, VT, 05742	0240234 681-216-10339
DOUGLAS S DUVAL & STEWART J DUVAL & DAVID L DUVAL	PO BOX 222 HANCOCK, NH, 03449	1030507 681-216-10329
THOMAS R SEWARD	10 SHERWOOD RD RUTLAND, VT, 05701	0870187 681-216-10953 1406002 681-216-11109
ARTHUR P SEWARD & OWEN A SEWARD	45 HENRYS KNOLL RD E WALLINGFORD, VT, 05742	0670045 681-216-10962
TERRI L HARRINGTON	202 EARL WADE RD EAST WALLINGFORD, VT, 05742 203 MAIN STREET PROCTORSVILLE, VT 05153	0720202 681-216-11042
CAROL SEWARD	4145 SUGAR HILL	0280025

LIFE ESTATE, STANLEY D SEWARD ET AL	ROAD E WALLINGFORD, VT, 05742	681-216-10965
PIERRE MORITA	403 W OLIVE ST LONG BEACH, NY, 11561	1406146 681-216-10733
STANLEY SEWARD	4280 SUGAR HILL ROAD E WALLINGFORD, VT, 05742	0064280 681-216-11033
MICHAEL E. WHITE JR.	126 EARL WADE ROAD E WALLINGFORD, VT, 05739	0720126; 05F5029.00 681-216-10027; 417-130-10021 (MOUNT HOLLY)
ARTHUR SEWARD & DAVID SEWARD	4180 SUGAR HILL RD E WALLINGFORD, VT, 05742	05F5028.00 417-130-10994 (MOUNT HOLLY)
DOUGLAS HAY AND KATHY LOU LIVING TRUST	497 GEIGEL HILL RD OTTSVILLE, PA, 18942	05G6054.00 417-130-10498 (MOUNT HOLLY)
SARAH M BARKER	269 CLARENDON AVE WEST RUTLAND, VT, 05777	05H6061.00 417-130-10672 (MOUNT HOLLY)

STATE AGENCIES (via ePUC)

Vermont Public Utility Commission (***via ePUC***)	Vermont Agency of Natural Resources (***via ePUC***)
Vermont Department of Public Service (***via ePUC***)	Vermont Agency of Transportation (***via ePUC***)
Vermont Division for Historic Preservation (***via ePUC***)	

30 V.S.A. § 248a(e)
STATEMENT OF RIGHTS & OPPORTUNITIES

Pursuant to §§ 248a(c)(2), (e)(2), (m), (n), (o), and (p), for the municipality and planning region in which the proposed facility is located, municipal legislative bodies and municipal / regional planning commissions have the rights and opportunities listed below.

- Substantial deference will be given to duly adopted municipal or regional plans, and any recommendations concerning those plans.
- With respect to municipal legislative bodies & municipal planning commissions, nothing shall prevent you from basing your recommendation(s) on an ordinance adopted pursuant to 24 V.S.A. § 2291(19) or a bylaw adopted under 24 V.S.A. Chapter 117.
- A letter from your entity / organization will create a rebuttable presumption with the Vermont Public Utility Commission ("PUC") respecting compliance with the applicable plans.
- Municipal officials may request that the Petitioner attend a public meeting within the 60-day notice period, before the Petitioner submits its Petition.
- Municipal officials may also request that an official from the Vermont Department of Public Service ("Department") attend a public hearing during the 60-day notice period. The Department, if in attendance, shall consider any comments made and information obtained at the meeting in making its recommendation to the PUC on the petition, and on whether to retain additional personnel to evaluate the project.
- Municipal legislative bodies and municipal planning commissions may, at the commencement of the 60-day notice process, request that the Department, at Petitioner's expense, retain experts and other personnel to provide information essential to full consideration of the petition.
- Municipal legislative bodies and municipal planning commissions have the right to appear and participate on any petition seeking a certificate of public good.
- The PUC is required to consider your comments or recommendation(s) when deciding to issue or deny a certificate of public good for the project and shall include a detailed written response to each of recommendation.
- You may learn more about the § 248a process from the *Guide to the 248a process for Siting and Construction of Telecommunications Facilities*, published pursuant to 248a(p), at the Vermont Department of Public Service, 112 State Street, Montpelier, VT, or by visiting http://publicservice.vermont.gov/telecom/. You may request a copy by mail by calling the Department at (802) 828-2811.
- Additional documents available on the Public Utility Commission's website to assist you with this process include the following:
    - *A Citizen's Guide to the Public Utility Commission*, available at: https://puc.vermont.gov/document/citizen-guide-public-utility-commission.
    - *Public Participation and Intervention in Proceedings Before the Public Utility Commission*, available at:
    - https://puc.vermont.gov/document/public-participation-and-intervention-proceedings-public-utility-commission
    - http://puc.vermont.gov/document/section-248a-procedures

CO–APPLICANTS:

Vertex Towers LLC
VERTEX TOWERS LLC
P.O. BOX 680
MEDFIELD, MA 02052

verizon
VERIZON WIRELESS
51 ALDER STREET
MEDWAY, MA 02053

EXHIBIT B
VERTEX TOWERS
ADVANCE NOTICE - WALLINGFORD

VT-VT-0120A
WALLINGFORD

100 SEWARD HILL ROAD
EAST WALLINGFORD, VT 05742
RUTLAND COUNTY

SITE NO: VT-VT-0120A

GENERAL NOTES

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.

2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BEYOND THIS AS IS INCIDENTAL AND/OR CUSTOMARY. THE DRAWINGS AND SPECIFICATIONS SHALL BE CONSIDERED COMPLEMENTARY AND ANY ITEM SHOWN OR CALLED FOR BY ONE BUT NOT THE OTHER SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.

3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE LESEE/LICENSEE REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.

4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.

5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS / CONTRACT DOCUMENTS.

7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S / VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.

8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.

9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS, ESTABLISHING AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS AS SHOWN HEREIN.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.

12. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC.ETERA DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.

13. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND ORDERLY DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND RELATIVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.

14. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.

15. THE CONTRACTOR SHALL NOTIFY THE LESEE/LICENSEE REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE LESEE/LICENSEE REPRESENTATIVE.

16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.

17. ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK. CALL THE FOLLOWING FOR ALL PRE–CONSTRUCTION NOTIFICATION 72–HOURS PRIOR TO ANY EXCAVATION ACTIVITY: DIG SAFE SYSTEM (MA, ME, NH, RI, VT) 1–888–344–7233 CALL BEFORE YOU DIG (CT): 1–800–922–4455

18. ALL DIMENSIONS SHOWN THUS ± ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WHICH EFFECT THE CONTRACTORS WORK. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH PROJECT OWNER PRIOR TO CONSTRUCTION.

19. NORTH ARROW SHOWN ON PLANS REFERS TO APPROXIMATE TRUE NORTH. PRIOR TO THE START OF CONSTRUCTION, ORIENTING OR FABRICATING OF ANTENNA MOUNTS, CONTRACTOR SHALL CONSULT WITH PROJECT OWNER'S RF ENGINEER AND FIELD VERIFY ALL ANTENNA SECTOR LOCATIONS AND ANTENNA AZIMUTHS.

20. THE CONTRACTOR AND OR HIS SUB CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.

21. ANTENNA INSTALLATION SHALL BE CONDUCTED BY FIELD CREWS EXPERIENCED IN THE ASSEMBLY AND ERECTION OF RADIO ANTENNAS, TRANSMISSION LINES AND SUPPORT STRUCTURES.

22. COAXIAL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE PROVIDED BY THE PROJECT OWNER AND IS NOT INCLUDED IN THESE CONSTRUCTION DOCUMENTS. A SCHEDULE OF PROJECT OWNER SUPPLIED MATERIALS IS ATTACHED TO THE BID DOCUMENTS (SEE EXHIBIT 3). ALL OTHER HARDWARE TO BE PROVIDED BY THE CONTRACTOR. CONNECTION HARDWARE SHALL BE STAINLESS STEEL.

23. WHEN "PAINT TO MATCH" IS SPECIFIED FOR ANTENNA CONCEALMENT, PAINT PRODUCT FOR ANTENNA RADOME SHALL BE SHERWIN WILLIAMS CONDITRANE II. SURFACE PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND PROJECT OWNER'S GUIDELINE'S.

24. COORDINATION, LAYOUT AND FURNISHING OF CONDUIT, CABLE TRAY, ALL APPURTENANCES AND LABOR FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

25. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.

26. 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 ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW.

27. 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 UTILITY COMPANY ENGINEERING. THE AREAS OF THE PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT, DRIVEWAY OR LEASE AREA SHALL BE RESTORED TO ORIGINAL CONDITION.

28. GRAVEL, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED AND COVERED WITH MULCH UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN SOIL EROSION AND SEDIMENTATION CONTROLS AT ALL TIMES.

29. DURING CONSTRUCTION, PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS.

30. FOR WIRELESS COMMUNICATIONS SYSTEMS, PROJECT OWNER'S IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. PROJECT OWNER RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS.

31. SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 14TH EDITION MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION;

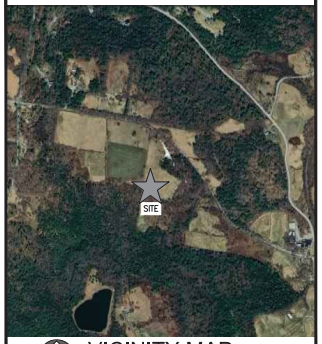
TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222–H, STRUCTURAL STANDARDS FOR STEEL

ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

APPLICABLE BUILDING CODES:
SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ-ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

VICINITY MAP



NORTH

VICINITY MAP
SCALE: NTS

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

SHEET INDEX

PROJECT SUMMARY

SITE NAME:	WALLINGFORD
SITE ADDRESS:	100 SEWARD HILL ROAD EAST WALLINGFORD, VT 05742
PROPERTY ID:	6–028–0030
TOWER INFO:	
TOWER TYPE:	SELF SUPPORT TOWER
LATITUDE:	43° 27' 05.93 N
LONGITUDE:	72° 53' 18.14" W
GROUND ELEV:	1,610'
TOWER HEIGHT:	140' A.G.L.
TOWER TOP ELEV:	1,750'
CO–APPLICANT/LICENSEE:	VERTEX–VERMONT TOWERS LLC P.O. BOX 680 MEDFIELD, MA 02052
CO–APPLICANT/LESSEE:	VERIZON WIRELESS 51 ALDER STREET MEDWAY, MA 02053 (508) 330–3300
ENGINEER:	ADVANCED ENGINEERING GROUP, P.C. 179 SWANSEA MALL DRIVE (SUITE 1) SWANSEA, MA 02777 PHONE: (508) 343–1414
LAND SURVEYOR:	NORTHEAST SURVEY CONSULTANTS 3 FERRY STREET, STUDIO 1 EAST EASTHAMPTON, MA 01027 PHONE: (413) 203–5144
PROPERTY OWNER:	ARTHUR P., DAVID B. & LOUISE SEWARD 37 SEWARD HILL ROAD E. WALLINGFORD, VT 05742

verizon
VERIZON WIRELESS
51 ALDER STREET
MEDWAY, MA 02053

Vertex Towers LLC
VERTEX TOWERS LLC
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179 Swansea Mall Drive, Suite 1
Swansea, MA 02777
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Fax: (401) 633-6556

STATE OF VERMONT
SCOTT N. ADAMS
NO. 135423
CIVIL
LICENSED PROFESSIONAL ENGINEER

AEG PROJECT #: 2023–0079

DRAWN BY: MFR

CHECKED BY: SNA

SUBMITTALS

REV#	DATE	DESCRIPTION
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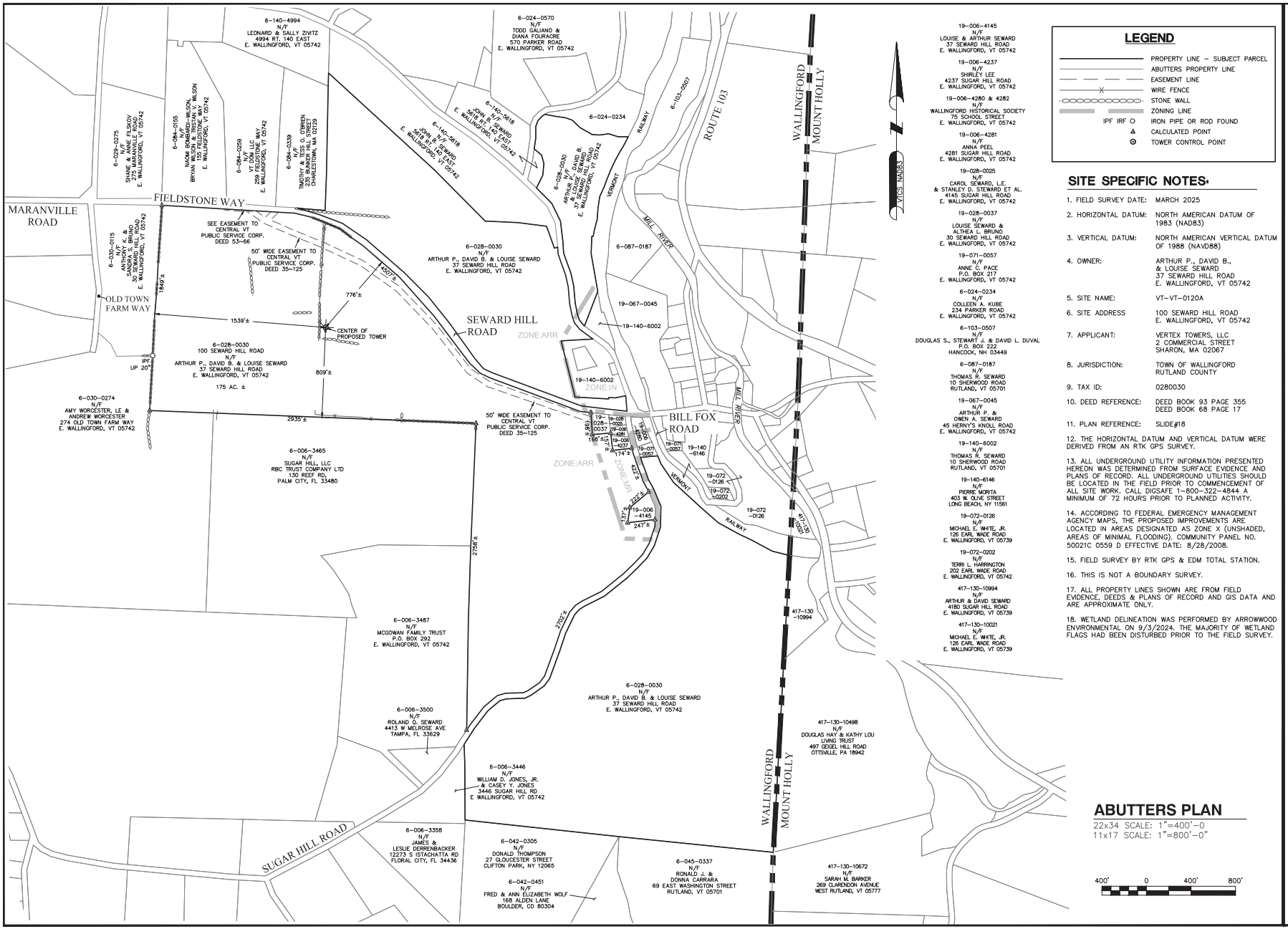
1	07/03/25	ISSUED FOR REVIEW
2	08/20/25	ISSUED FOR REVIEW
3	10/22/25	ISSUED FOR REVIEW

VT–VT–0120A
WALLINGFORD
100 SEWARD HILL ROAD
EAST WALLINGFORD, VT 05742
RUTLAND COUNTY

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T–1



19-006-4145
N/F
LOUISE & ARTHUR SEWARD
37 SEWARD HILL ROAD
E. WALLINGFORD, VT 05742

19-006-4237
N/F
SHIRLEY LEE
4237 SUGAR HILL ROAD
E. WALLINGFORD, VT 05742

19-006-4280 & 4282
N/F
WALLINGFORD HISTORICAL SOCIETY
75 SCHOOL STREET
E. WALLINGFORD, VT 05742

19-006-4281
N/F
ANNA PEEL
4281 SUGAR HILL ROAD
E. WALLINGFORD, VT 05742

19-028-0025
N/F
CAROL SEWARD, L.E.
& STANLEY D. STEWARD ET AL.
4145 SUGAR HILL ROAD
E. WALLINGFORD, VT 05742

19-028-0037
N/F
LOUISE SEWARD &
ALTHEA L. BRUNO
30 SEWARD HILL ROAD
E. WALLINGFORD, VT 05742

19-071-0057
N/F
ANNE C. PACE
P.O. BOX 217
E. WALLINGFORD, VT 05742

6-024-0234
N/F
COLLEEN A. KUBE
234 PARKER ROAD
E. WALLINGFORD, VT 05742

6-103-0507
N/F
DOUGLAS S., STEWART J. & DAVID L. DUVAL
P.O. BOX 222
HANCOCK, NH 03449

6-087-0187
N/F
THOMAS R. SEWARD
10 SHERWOOD ROAD
RUTLAND, VT 05701

19-067-0045
N/F
ARTHUR P. &
OWEN A. SEWARD
45 HERNY'S KNOLL ROAD
E. WALLINGFORD, VT 05742

19-140-6002
N/F
THOMAS R. SEWARD
10 SHERWOOD ROAD
RUTLAND, VT 05701

19-140-6146
N/F
PIERRE MORITA
403 W. OLIVE STREET
LONG BEACH, NY 11561

19-072-0126
N/F
MICHAEL E. WHITE, JR.
126 EARL WADE ROAD
E. WALLINGFORD, VT 05739

19-072-0202
N/F
TERRI L. HARRINGTON
202 EARL WADE ROAD
E. WALLINGFORD, VT 05742

417-130-10994
N/F
ARTHUR & DAVID SEWARD
4180 SUGAR HILL ROAD
E. WALLINGFORD, VT 05739

417-130-10021
N/F
MICHAEL E. WHITE, JR.
126 EARL WADE ROAD
E. WALLINGFORD, VT 05739

417-130-10498
N/F
DOUGLAS HAY & KATHY LOU
LIVING TRUST
497 GEGEL HILL ROAD
OTTSVILLE, PA 18942

LEGEND

- PROPERTY LINE – SUBJECT PARCEL
- ABUTTERS PROPERTY LINE
- EASEMENT LINE
- WIRE FENCE
- STONE WALL
- ZONING LINE
- IPF IRF ○ IRON PIPE OR ROD FOUND
- ▲ CALCULATED POINT
- ⊙ TOWER CONTROL POINT

SITE SPECIFIC NOTES:

1. FIELD SURVEY DATE: MARCH 2025
2. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83)
3. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
4. OWNER: ARTHUR P., DAVID B., & LOUISE SEWARD 37 SEWARD HILL ROAD E. WALLINGFORD, VT 05742
5. SITE NAME: VT-VT-0120A
6. SITE ADDRESS 100 SEWARD HILL ROAD E. WALLINGFORD, VT 05742
7. APPLICANT: VERTEX TOWERS, LLC 2 COMMERCIAL STREET SHARON, MA 02067
8. JURISDICTION: TOWN OF WALLINGFORD RUTLAND COUNTY
9. TAX ID: 0280030
10. DEED REFERENCE: DEED BOOK 93 PAGE 355 DEED BOOK 68 PAGE 17
11. PLAN REFERENCE: SLIDE#18
12. THE HORIZONTAL DATUM AND VERTICAL DATUM WERE DERIVED FROM AN RTK GPS SURVEY.
13. ALL UNDERGROUND UTILITY INFORMATION PRESENTED HEREON WAS DETERMINED FROM SURFACE EVIDENCE AND PLANS OF RECORD. ALL UNDERGROUND UTILITIES SHOULD BE LOCATED IN THE FIELD PRIOR TO COMMENCEMENT OF ALL SITE WORK. CALL DIGSAFE 1-800-322-4844 A MINIMUM OF 72 HOURS PRIOR TO PLANNED ACTIVITY.
14. ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, THE PROPOSED IMPROVEMENTS ARE LOCATED IN AREAS DESIGNATED AS ZONE X (UNSHADED, AREAS OF MINIMAL FLOODING). COMMUNITY PANEL NO. 50021C 0559 D EFFECTIVE DATE: 8/28/2008.
15. FIELD SURVEY BY RTK GPS & EDM TOTAL STATION.
16. THIS IS NOT A BOUNDARY SURVEY.
17. ALL PROPERTY LINES SHOWN ARE FROM FIELD EVIDENCE, DEEDS & PLANS OF RECORD AND GIS DATA AND ARE APPROXIMATE ONLY.
18. WETLAND DELINEATION WAS PERFORMED BY ARROWWOOD ENVIRONMENTAL ON 9/3/2024. THE MAJORITY OF WETLAND FLAGS HAD BEEN DISTURBED PRIOR TO THE FIELD SURVEY.

ABUTTERS PLAN

22x34 SCALE: 1"=400'-0
11x17 SCALE: 1"=800'-0"

400' 0 400' 800'

PREPARED FOR: VERTEX TOWERS, LLC.

Vertex Towers
2 COMMERCIAL STREET
SHARON, MA 02067

NORTHEAST SURVEY CONSULTANTS
3 Ferry Street
Studio 1 East
Easthampton, MA 01027
(413) 203-5144
northeastsurvey.com

STATE OF VERMONT
ETHAN GILMOUR
No. 024.0127787
REGISTERED LAND SURVEYOR

ETHAN GILMOUR VT LLS 024-0127787

CHECKED BY: BCF

APPROVED BY: EG

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
0	10/17/25	ISSUED FOR REVIEW	JDG

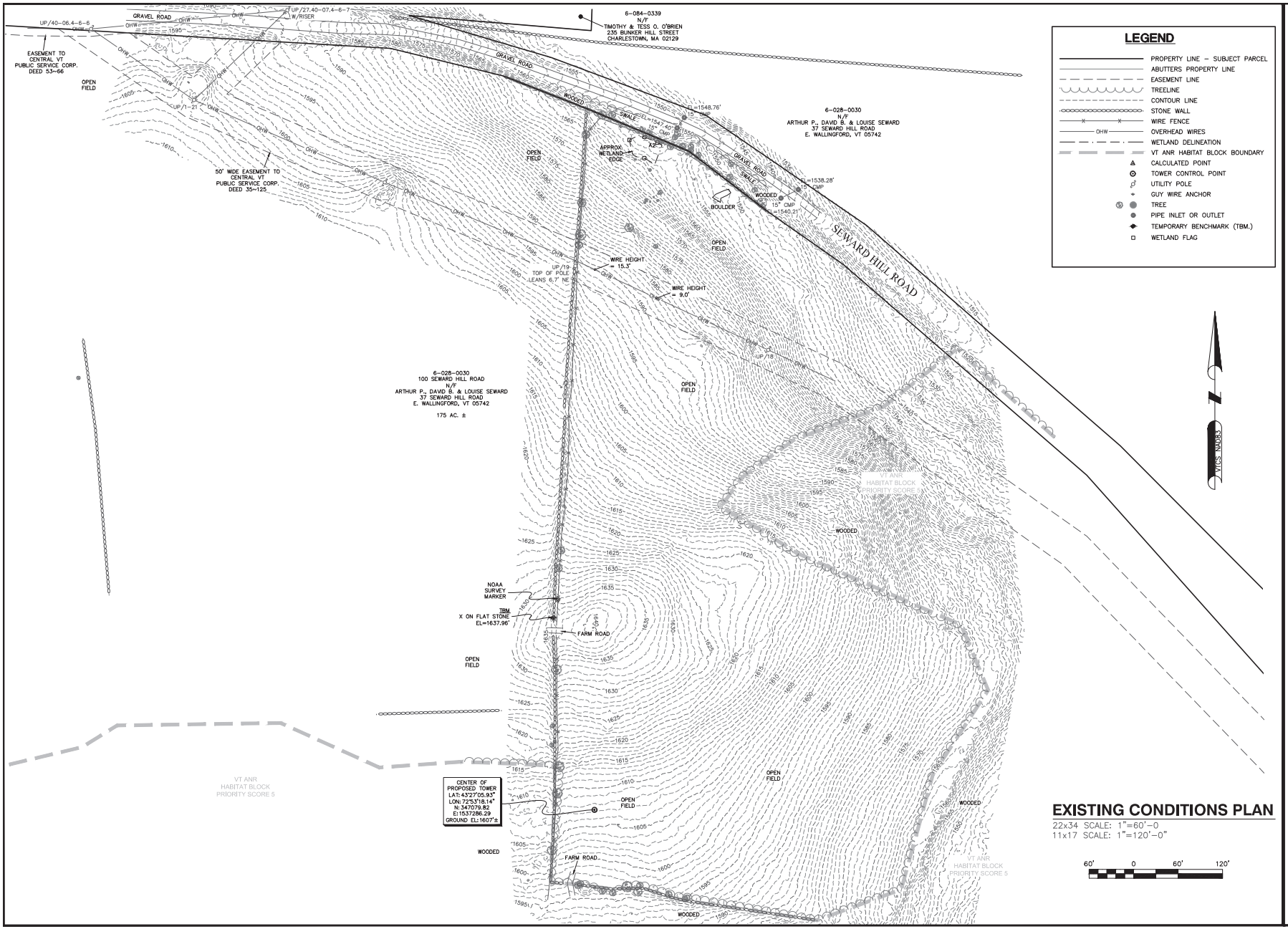
SITE NAME:
WALLINGFORD

SITE NUMBER:
VT-VT-0120A

SITE ADDRESS:
100 SEWARD HILL ROAD
E. WALLINGFORD, VT 05742

SHEET TITLE
ABUTTERS PLAN

SHEET NUMBER
C-1



LEGEND

- PROPERTY LINE – SUBJECT PARCEL
- ABUTTERS PROPERTY LINE
- EASEMENT LINE
- TREELINE
- CONTOUR LINE
- STONE WALL
- WIRE FENCE
- OVERHEAD WIRES
- WETLAND DELINEATION
- VT ANR HABITAT BLOCK BOUNDARY
- CALCULATED POINT
- TOWER CONTROL POINT
- UTILITY POLE
- GUY WIRE ANCHOR
- TREE
- PIPE INLET OR OUTLET
- TEMPORARY BENCHMARK (TBM.)
- WETLAND FLAG

EXISTING CONDITIONS PLAN

22x34 SCALE: 1"=60'-0
11x17 SCALE: 1"=120'-0"

60' 0 60' 120'

PREPARED FOR: VERTEX TOWERS, LLC.

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STATE OF VERMONT
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REGISTERED LAND SURVEYOR

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CHECKED BY: BCF

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SUBMITTALS

REV.	DATE	DESCRIPTION	BY
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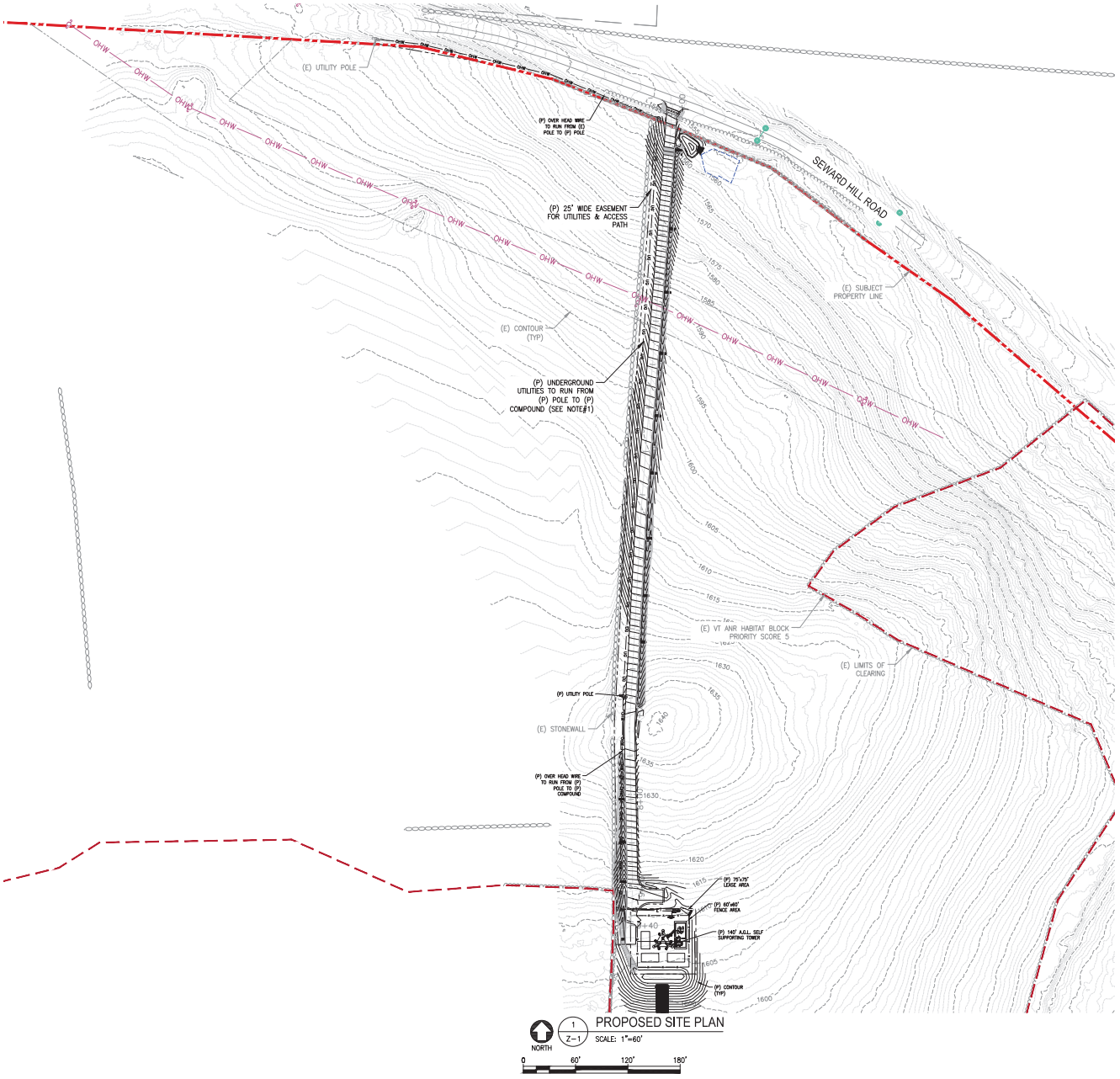
SITE NAME:
WALLINGFORD

SITE NUMBER:
VT-VT-0120A

SITE ADDRESS:
100 SEWARD HILL ROAD
E. WALLINGFORD, VT 05742

SHEET TITLE
EXISTING CONDITIONS PLAN

SHEET NUMBER
C-2



NORTH

1 / Z-1 PROPOSED SITE PLAN

SCALE: 1"=60'

0 60' 120' 180'

ENGINEERING NOTES

1. THE TYPE, DIMENSIONS, MOUNTING HARDWARE, AND POSITIONS OF ALL PROJECT OWNER'S EQUIPMENT ARE SHOWN IN ILLUSTRATIVE FASHION. THESE DRAWINGS ARE NOT INTENDED FOR CONSTRUCTION. ACTUAL HARDWARE DETAILS AND FINAL LOCATIONS MAY DIFFER SLIGHTLY FROM WHAT IS SHOWN.
2. THE PROJECT OWNER'S PCS FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
3. THE PROJECT OWNER'S BASE TRANSMISSION STATION (BTS) CABINET IS A VANDAL RESISTANT STEEL CABINET CONTAINING RECTIFIERS, AMPLIFIERS, RADIOS, AND OTHER INTEGRATED ELECTRONIC CONTROL EQUIPMENT. BATTERY BACKUP FOR EMERGENCY STANDBY POWER IS CONTAINED WITHIN A SEPARATE BATTERY RACK CONTAINING 12-VOLT, CLOSED-CELL DC BATTERIES. THE BATTERIES ARE LEAD-ACID RECHARGEABLE STANDBY INDUSTRIAL POWER CELLS MANUFACTURED TO MEET ENVIRONMENTAL QUALITY AND RUGGEDNESS STANDARDS OF THE INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA). THE BATTERY CHARGING SYSTEM IS COMPUTER-CONTROLLED AND THE EQUIPMENT CABINET IS REMOTELY MONITORED AT PROJECT OWNER'S NETWORK OPERATIONS CONTROL CENTER 24-HOURS A DAY, 7 DAYS A WEEK FOR FAULTS AND ALARMS.
4. THE DESIGN OF THE ANTENNA MOUNTING HARDWARE AND STRUCTURAL REINFORCEMENT OF EXISTING BUILDING ROOF/FLOOR (IF NECESSARY) TO SUPPORT THE BTS EQUIPMENT CABINETS WILL MEET THE ANSI/EIA/TIA-222-G STANDARDS FOR STRUCTURAL STEEL ANTENNA SUPPORTING STRUCTURES AND STATE BUILDING CODE REQUIREMENTS. DETAILED CONSTRUCTION DRAWINGS AND STRUCTURAL CALCULATIONS WILL BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED WITH A BUILDING PERMIT APPLICATION FOR REVIEW AND APPROVAL BY THE LOCAL BUILDING CODE ENFORCEMENT OFFICIAL.
5. ONCE THE FACILITY BECOMES FULLY OPERATIONAL, NORMAL AND ROUTINE MAINTENANCE BY PROJECT OWNER'S TECHNICIANS WILL BE PERFORMED ON A MONTHLY BASIS. THEREFORE, THE ESTIMATED VEHICLE TRIP GENERATION RATE IS 2 TRIPS PER MONTH. THE AVERAGE DAILY TRIP GENERATION RATE (ADT) IS 0.07.
6. PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. PROJECT OWNER'S IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS.
7. APPLICANT: VERTEX TOWERS LLC, P.O. BOX 680, MEDFIELD, MA 02052
8. OWNER: ARTHUR P., DAVID B. & LOUISE SEWARD, 37 SEWARD HILL ROAD, E. WALLINGFORD, VT 05742
9. ZONING DISTRICT: AGRICULTURE / RURAL / RESIDENTIAL
10. JURISDICTION: TOWN OF EAST WALLINGFORD
11. TAX ID: 6-028-0030
12. ALL MEASUREMENTS ARE SHOWN IN FEET ± UNLESS OTHERWISE NOTED.

LEGEND

- PROPERTY LINE
- ABUTTING PROPERTY LINE
- EXIST. R.O.W. LAYOUT
- (E) MAJOR CONTOUR (290)
- (E) MINOR CONTOUR (291)
- (P) CONTOUR (290)
- PROP. EASEMENT/LEASE AREA
- EXIST. CHAIN LINK FENCE
- PROP. CHAIN LINK FENCE
- EROSION CONTROL BARRIER
- (E) OVERHEAD UTILITY WIRES (OHW)
- (P) OVERHEAD UTILITY WIRES (OHW)
- (P) ELECTRICAL UTILITY CONDUIT (E)
- (P) TELCO/DATA UTILITY CONDUIT (T)
- (E) TREE LINE
- (P) TREE LINE

NOTE #1:

PROPOSED UTILITIES ARE TO BE INSTALLED UNDERGROUND FROM EXISTING PUBLIC RIGHT OF WAY TO PROPOSED COMPOUND AREA TO THE EXTENT POSSIBLE. SHOULD SITE CONDITIONS BE ENCOUNTERED THAT PROHIBITS U/G TRENCHING, THE PROPOSED UTILITIES WILL TRANSITION TO OVERHEAD WIRES FOR THE REMAINING INSTALLATION TO COMPOUND (LEDGE ETC).

verizon
VERIZON WIRELESS
51 ALDER STREET
MEDWAY, MA 02053

Vertex Towers LLC
VERTEX TOWERS LLC
P.O. BOX 680
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Swansea, MA 02777
Tel: (508) 343-1414
Fax: (401) 633-6554

STATE OF VERMONT · SCOTT N. ADAMS · NO. 135423 · CIVIL · LICENSED PROFESSIONAL ENGINEER

AEG PROJECT #: 2023-0079

DRAWN BY: MFR

CHECKED BY: SNA

SUBMITTALS

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VT-VT-0120A

WALLINGFORD

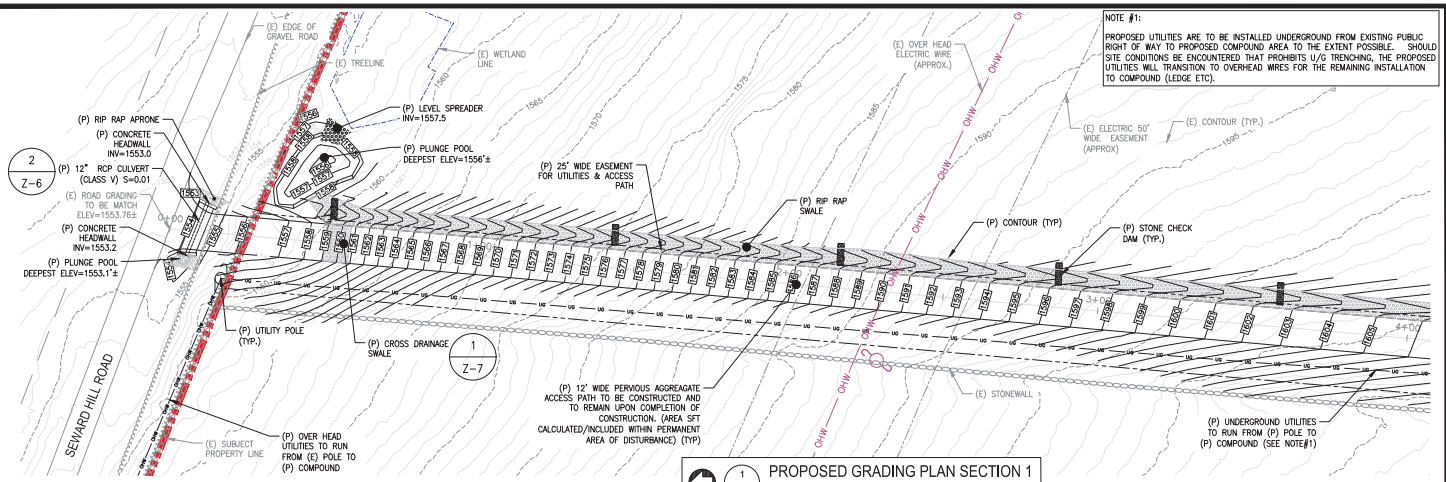
100 SEWARD HILL ROAD
EAST WALLINGFORD, VT
05742
RUTLAND COUNTY

SHEET TITLE

PROPOSED SITE PLAN

SHEET NUMBER

Z-1

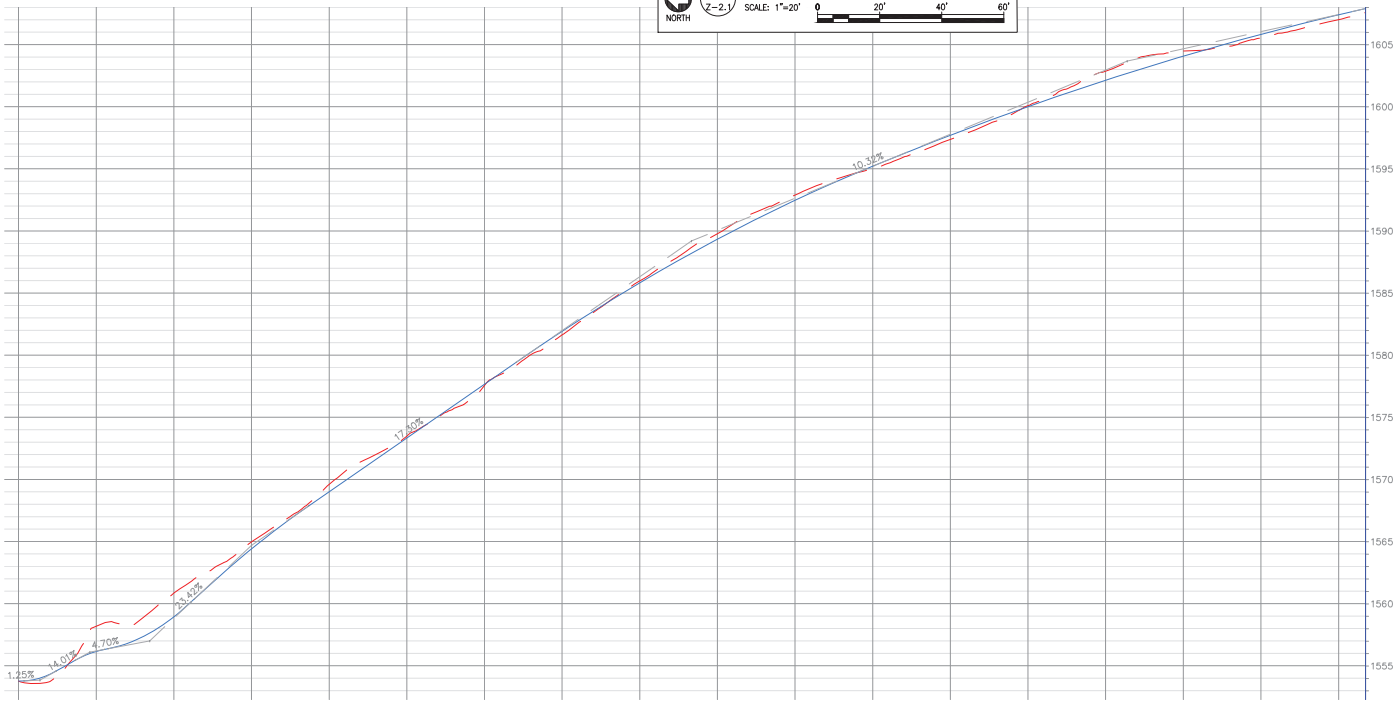


NORTH

1 Z-2.1 PROPOSED GRADING PLAN SECTION 1

SCALE: 1"=20'

0 20' 40' 60'



2 Z-2.1 PROFILE VIEW SECTION 1

SCALE: 1"=20'

0 20' 40' 60'

ENGINEERING NOTES

1. THE TYPE, DIMENSIONS, MOUNTING HARDWARE, AND POSITIONS OF ALL PROJECT OWNER'S EQUIPMENT ARE SHOWN IN ILLUSTRATIVE FASHION. THESE DRAWINGS ARE NOT INTENDED FOR CONSTRUCTION. ACTUAL HARDWARE DETAILS AND FINAL LOCATIONS MAY DIFFER SLIGHTLY FROM WHAT IS SHOWN.
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7. APPLICANT: VERTEX TOWERS LLC, P.O. BOX 680, MEDFIELD, MA 02052
8. OWNER: ARTHUR P., DAVID B. & LOUISE SEWARD, 37 SEWARD HILL ROAD, E. WALLINGFORD, VT 05742
9. ZONING DISTRICT: AGRICULTURE / RURAL / RESIDENTIAL
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11. TAX ID: 6-028-0030
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LEGEND

- PROPERTY LINE
- ABUTTING PROPERTY LINE
- EXIST. R.O.W. LAYOUT
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- (E) MINOR CONTOUR
- (P) CONTOUR
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- EXIST. CHAIN LINK FENCE
- PROP. CHAIN LINK FENCE
- EROSION CONTROL BARRIER
- (E) OVERHEAD UTILITY WIRES
- (P) OVERHEAD UTILITY WIRES
- (P) ELECTRICAL UTILITY CONDUIT
- (P) TELCO/DATA UTILITY CONDUIT
- (E) TREE LINE
- (P) TREE LINE

verizon
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179 Swansea Mall Drive, Suite 1
Swansea, MA 02777
Tel: (508) 343-1414
Fax: (401) 633-6554

STATE OF VERMONT SCOTT N. ADAMS NO. 135423 CIVIL LICENSED PROFESSIONAL ENGINEER

AEG PROJECT #:	2023-0079
DRAWN BY:	MFR
CHECKED BY:	SNA

SUBMITTALS

REV#	DATE	DESCRIPTION
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VT-VT-0120A

WALLINGFORD

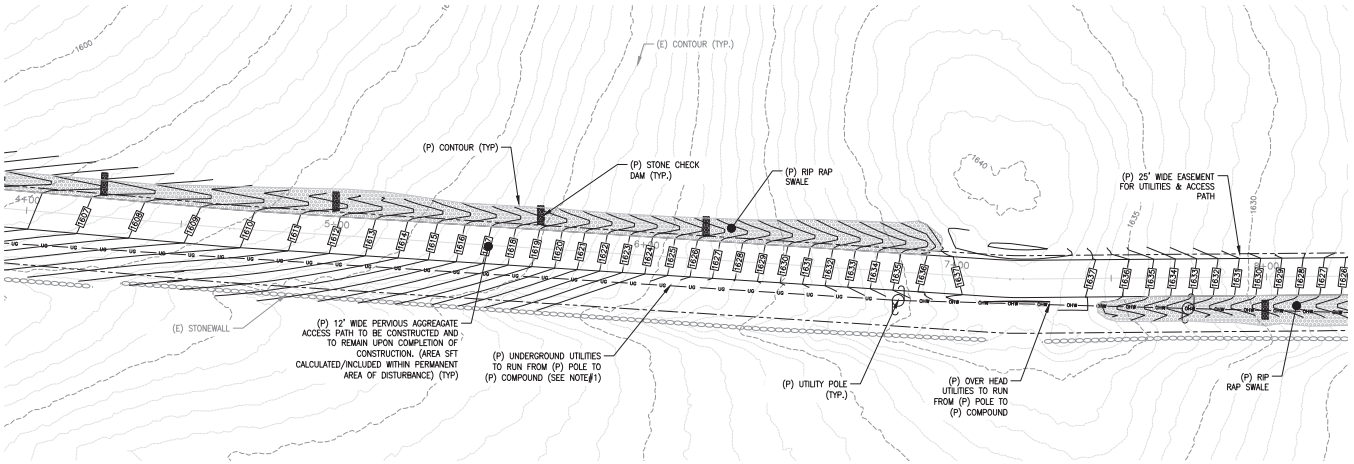
100 SEWARD HILL ROAD
EAST WALLINGFORD, VT
05742
RUTLAND COUNTY

SHEET TITLE

PROFILE AND GRADING PLAN SECTION 1

SHEET NUMBER

Z-2.1



1 Z-2.2 PROPOSED GRADING PLAN SECTION 2

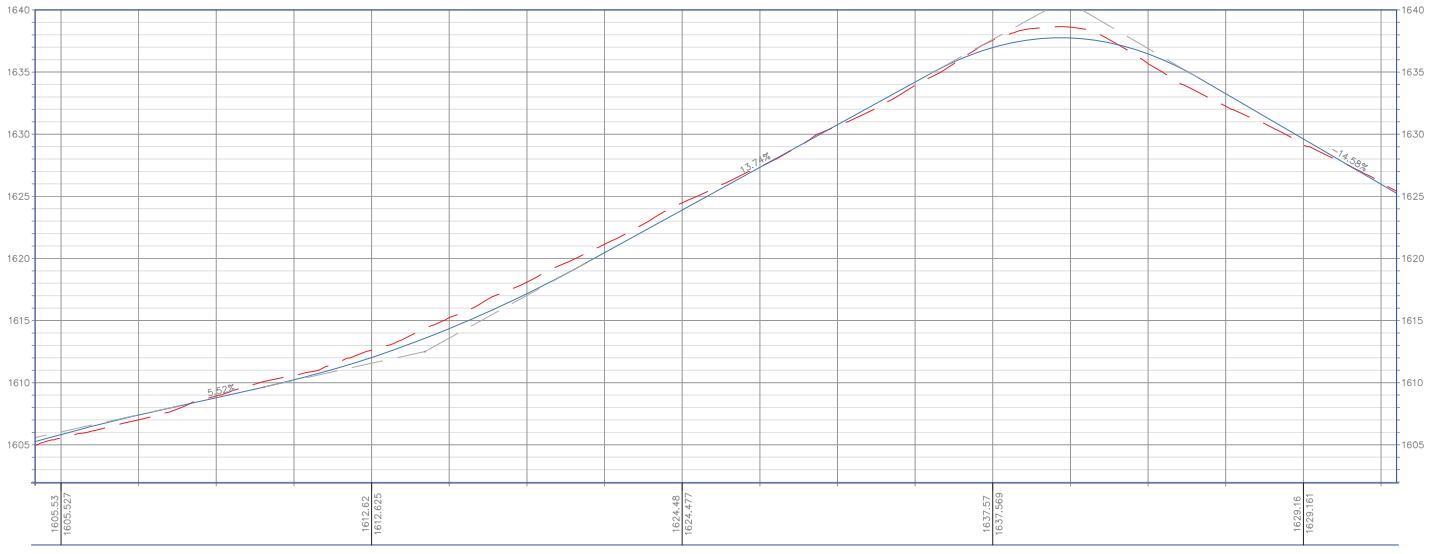
SCALE: 1"=20'

NORTH

0 20' 40' 60'

NOTE #1:

PROPOSED UTILITIES ARE TO BE INSTALLED UNDERGROUND FROM EXISTING PUBLIC RIGHT OF WAY TO PROPOSED COMPOUND AREA TO THE EXTENT POSSIBLE. SHOULD SITE CONDITIONS BE ENCOUNTERED THAT PROHIBITS U/G TRENCHING, THE PROPOSED UTILITIES WILL TRANSITION TO OVERHEAD WIRES FOR THE REMAINING INSTALLATION TO COMPOUND (LEDGE ETC).



2 Z-2.2 PROFILE VIEW SECTION 2

SCALE: 1"=20'

0 20' 40' 60'

ENGINEERING NOTES

1. THE TYPE, DIMENSIONS, MOUNTING HARDWARE, AND POSITIONS OF ALL PROJECT OWNER'S EQUIPMENT ARE SHOWN IN ILLUSTRATIVE FASHION. THESE DRAWINGS ARE NOT INTENDED FOR CONSTRUCTION. ACTUAL HARDWARE DETAILS AND FINAL LOCATIONS MAY DIFFER SLIGHTLY FROM WHAT IS SHOWN.
2. THE PROJECT OWNER'S PCS FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
3. THE PROJECT OWNER'S BASE TRANSMISSION STATION (BTS) CABINET IS A VANDAL RESISTANT STEEL CABINET CONTAINING RECTIFIERS, AMPLIFIERS, RADIOS, AND OTHER INTEGRATED ELECTRONIC CONTROL EQUIPMENT. BATTERY BACKUP FOR EMERGENCY STANDBY POWER IS CONTAINED WITHIN A SEPARATE BATTERY RACK CONTAINING 12-VOLT, CLOSED-CELL DC BATTERIES. THE BATTERIES ARE LEAD-ACID RECHARGEABLE STANDBY INDUSTRIAL POWER CELLS MANUFACTURED TO MEET ENVIRONMENTAL QUALITY AND RUGGEDNESS STANDARDS OF THE INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA). THE BATTERY CHARGING SYSTEM IS COMPUTER-CONTROLLED AND THE EQUIPMENT CABINET IS REMOTELY MONITORED AT PROJECT OWNER'S NETWORK OPERATIONS CONTROL CENTER 24-HOURS A DAY, 7 DAYS A WEEK FOR FAULTS AND ALARMS.
4. THE DESIGN OF THE ANTENNA MOUNTING HARDWARE AND STRUCTURAL REINFORCEMENT OF EXISTING BUILDING ROOF/FLOOR (IF NECESSARY) TO SUPPORT THE BTS EQUIPMENT CABINETS WILL MEET THE ANSI/EIA/TIA-222-G STANDARDS FOR STRUCTURAL STEEL ANTENNA SUPPORTING STRUCTURES AND STATE BUILDING CODE REQUIREMENTS. DETAILED CONSTRUCTION DRAWINGS AND STRUCTURAL CALCULATIONS WILL BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED WITH A BUILDING PERMIT APPLICATION FOR REVIEW AND APPROVAL BY THE LOCAL BUILDING CODE ENFORCEMENT OFFICIAL.
5. ONCE THE FACILITY BECOMES FULLY OPERATIONAL, NORMAL AND ROUTINE MAINTENANCE BY PROJECT OWNER'S TECHNICIANS WILL BE PERFORMED ON A MONTHLY BASIS. THEREFORE, THE ESTIMATED VEHICLE TRIP GENERATION RATE IS 2 TRIPS PER MONTH. THE AVERAGE DAILY TRIP GENERATION RATE (ADT) IS 0.07.
6. PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. PROJECT OWNER'S IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS.
7. APPLICANT: VERTEX TOWERS LLC, P.O. BOX 680, MEDFIELD, MA 02052
8. OWNER: ARTHUR P., DAVID B. & LOUISE SEWARD, 37 SEWARD HILL ROAD, E. WALLINGFORD, VT 05742
9. ZONING DISTRICT: AGRICULTURE / RURAL / RESIDENTIAL
10. JURISDICTION: TOWN OF EAST WALLINGFORD
11. TAX ID: 6-028-0030
12. ALL MEASUREMENTS ARE SHOWN IN FEET ± UNLESS OTHERWISE NOTED.

LEGEND

- PROPERTY LINE
- ABUTTING PROPERTY LINE
- EXIST. R.O.W. LAYOUT
- (E) MAJOR CONTOUR
- (E) MINOR CONTOUR
- (P) CONTOUR
- PROP. EASEMENT/LEASE AREA
- EXIST. CHAIN LINK FENCE
- PROP. CHAIN LINK FENCE
- EROSION CONTROL BARRIER
- (E) OVERHEAD UTILITY WIRES
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STATE OF VERMONT · SCOTT N. ADAMS · NO. 135423 · CIVIL · LICENSED PROFESSIONAL ENGINEER

AEG PROJECT #:	2023-0079
DRAWN BY:	MFR
CHECKED BY:	SNA

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VT-VT-0120A

WALLINGFORD

100 SEWARD HILL ROAD
EAST WALLINGFORD, VT
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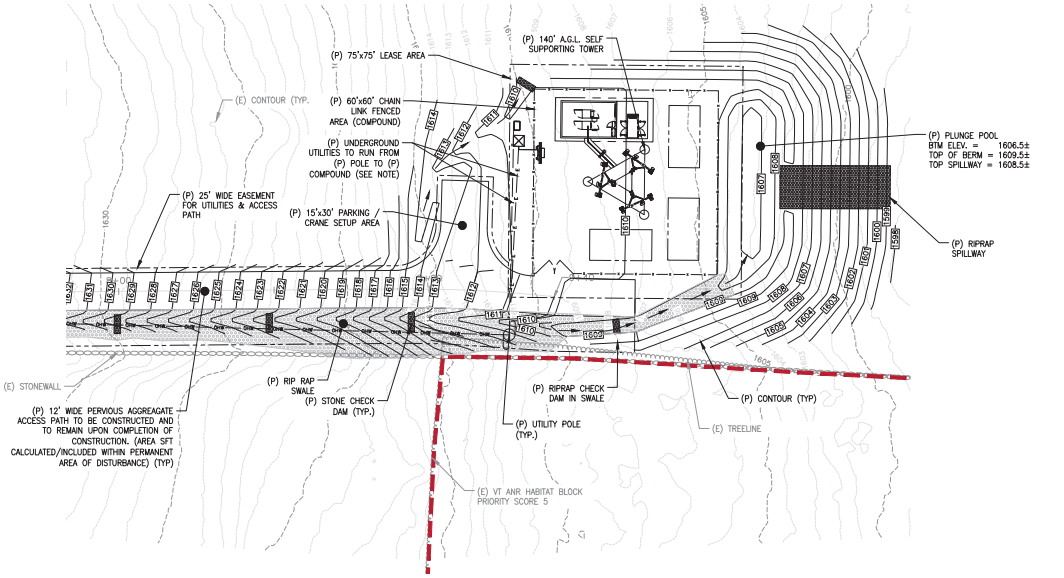
RUTLAND COUNTY

SHEET TITLE

PROFILE AND GRADING PLAN SECTION 1

SHEET NUMBER

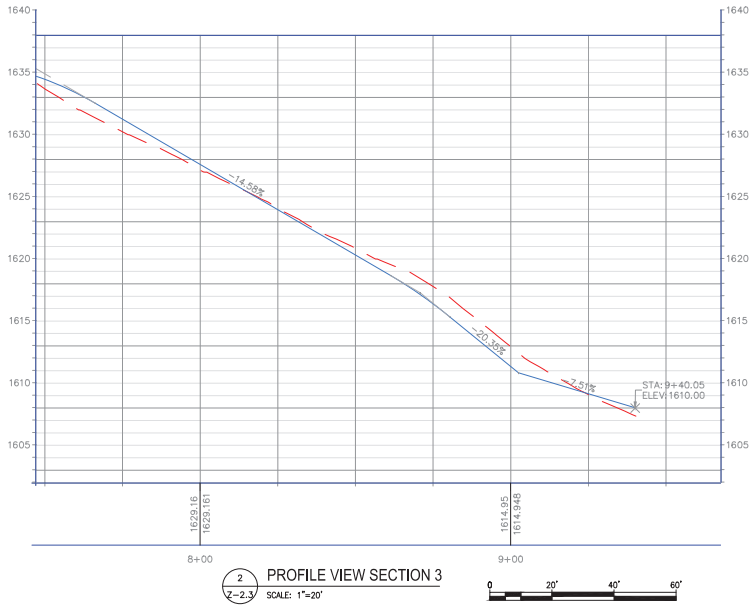
Z-2.2



NORTH

1 Z-2.3 PROPOSED GRADING PLAN SECTION 3

SCALE: 1"=20' 0 20' 40' 60'



2 Z-2.3 PROFILE VIEW SECTION 3

SCALE: 1"=20' 0 20' 40' 60'

ENGINEERING NOTES

1. THE TYPE, DIMENSIONS, MOUNTING HARDWARE, AND POSITIONS OF ALL PROJECT OWNER'S EQUIPMENT ARE SHOWN IN ILLUSTRATIVE FASHION. THESE DRAWINGS ARE NOT INTENDED FOR CONSTRUCTION. ACTUAL HARDWARE DETAILS AND FINAL LOCATIONS MAY DIFFER SLIGHTLY FROM WHAT IS SHOWN.
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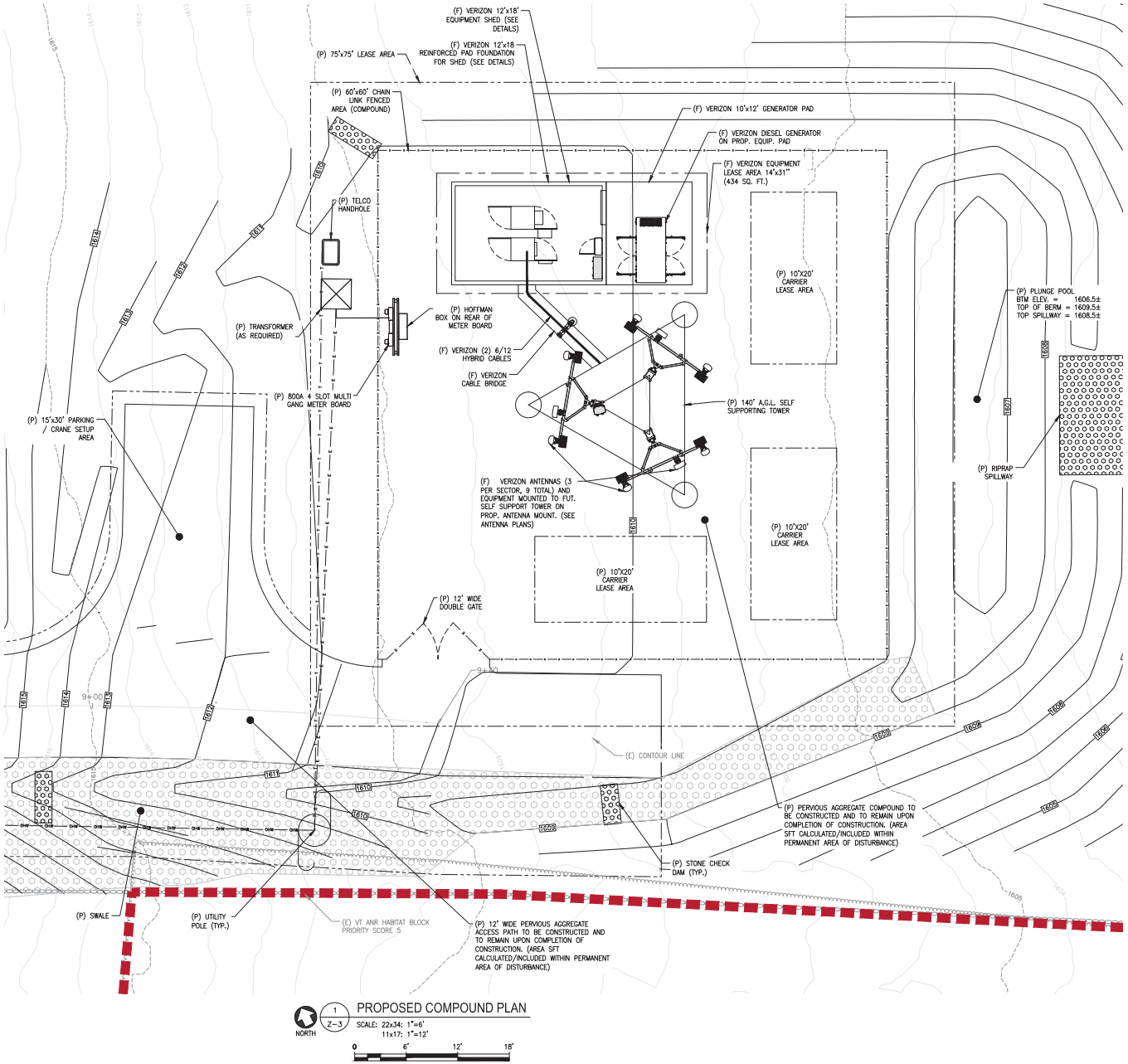
RUTLAND COUNTY

SHEET TITLE

PROFILE AND GRADING PLAN SECTION 1

SHEET NUMBER

Z-2.3



LEGEND

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- PROP. CHAIN LINK FENCE
- EROSION CONTROL BARRIER
- (E) OVERHEAD UTILITY WIRES
- (P) ELECTRICAL UTILITY CONDUIT
- (P) TELCO/DATA UTILITY CONDUIT
- (P) CONTOUR

CONSTRUCTION DISTURBANCE NOTES:

1) THE PERMANENT DISTURBED AREA ARE LIMITED TO THE PROPOSED STONE PATH, FENCED COMPOUND AREA, AND RUNOFF MITIGATION AREA.
2) COMPOUND WILL BE SURFACED IN 4" OF CRUSHED STONE. IMPERVIOUS AREAS DUE TO CARRIER PADS, EQUIPMENT, TOWER, TRANSFORMER AND ASSOCIATED EQUIPMENT WILL BE BELOW 2,500SFT. ANY RUNNOFF FROM THESE PROPOSED IMPERVIOUS AREAS WILL BE CAPTURED WITHIN THE VOID AREAS OF THE CRUSHED STONE COMPOUND AND INFILTRATE.
3) STONE ACCESS PATH IS TO BE CONSTRUCTED UTILIZING 8" FREE DRAINING CRUSHED STONE. THIS TYPE OF CRUSHED STONE (VAOT 704.17) IS UTILIZED AS A BASE MATERIAL FOR BUILDING FOUNDATIONS, ROADWAYS AND RAILROADS. THE LARGER PARTICLE SIZES PROVIDE A STABLE AND COMPACT BASE THAT IS CAPABLE OF WITHSTANDING HEAVY LOADS AS WELL AS PROVIDE FOR EXCELLENT DRAINAGE AND INFILTRATION CAPABILITY. STONE ACCESS PATH IS DESIGNED/INTENDED TO BE PERMEABLE.
4) LIMITS OF TREE CLEARING SHOWN AS APPROXIMATE. FIELD CONDITIONS AND INDIVIDUAL TREES WILL VARY. CONTRACTOR SHALL LIMIT CLEARING TO THE MINIMUM REQUIRED TO CONSTRUCT THE ACCESS DRIVE AND SITE UTILITIES. STUMPS OUTSIDE THE LIMITS OF EXCAVATION SHOULD BE LEFT IN PLACE.
5) ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED AS SOON AS FINAL GRADE IS ESTABLISHED TO RE-ESTABLISH A VEGETATED COVER. AREAS WITH ONGOING WORK SHALL BE TEMPORARILY STABILIZED WITHIN 14 DAYS OF INITAL GROUND DISTURBANCE.
6) THE PROPOSED ACCESS DRIVE FOLLOWS EXISTING WOODS TRAIL WHENEVER FEASIBLE. FOLLOWING CONSTRUCTION OF THE SITE COMPOUND, THE CONTRACTOR SHALL INSTALL THE ACCESS ROAD IN ACCORDANCE WITH THE DETAILS TO MAINTAIN A PERVIOUS CONDITION.
7) PERMANENT AND TEMPORARY WATER BARS SHALL BE INSTALLED AND MAINTAINED FOLLOWING INITIAL SOIL DISTURBANCE. TEMPORARY WATER BARS CAN BE REMOVED ONCE EXPOSED SUBGRADE MATERIAL IS STABILIZED WITH CRUSHED STONE SURFACE. PERMANENT WATER BARS SHALL REMAIN FOLLOWING CONSTRUCTION.

SITE AREA CALCULATION NOTES:

1. TOTAL ACREAGE OF TEMPORARY EARTH DISTURBANCE: 15,304 Sq.Ft. (0.35 ACRES)
2. TOTAL AREA OF PERMANENT EARTH DISTURBANCE: 26,325 Sq.Ft. (0.60 ACRES)
3. TOTAL ACREAGE OF TREE CLEARING: 0 Sq.Ft. (0.00 ACRES)
4. IMPERVIOUS AREA
   - 4.1. EXISTING = LOGGING / AGRICULTURAL EXEMPT
   - 4.2. PROPOSED = 1,500 SFT MAX. (0.03 ACRES MAX.)

- STORMWATER OPERATIONAL PERMIT REQUIRED: NO
- STORMWATER CONSTRUCTION GENERAL PERMIT REQUIRED: NO
- CALCULATIONS DO NOT INCLUDE EXISTING EXEMPT LOGGING AND AGRICULTRUAL PATH AREAS. (SEE NOTE #5)

NOTES:

1) DUE TO THE TYPE OF CONSTRUCTION AND STEEP GRADES ACCESS IS INTENDED TO BE PRIVATE AND LIMITED TO APPROPRIATE VEHICLES AND QUALIFIED TECHNICIANS/CONTRACTORS ONLY. THE INTENT OF THIS PRIVATE STONE PATH IS TO PROVIDE ACCESS TO THE TOWER COMPOUND LOCATION VIA ALL TERRAIN VEHICLES (ATV), OFF-PATH VEHICLES, CONSTRUCTION VEHICLES, 4X4 VEHICLES, AND SNOWMOBILES. THIS ACCESS PATH IS NOT INTENDED FOR NORMAL PUBLIC/VEHICULAR TRAFFIC AND/OR (2) WHEEL DRIVE VEHICLES AND SHOULD BE RESTRICTED AS SUCH BY OWNER.
2) STONE ACCESS PATH WILL NOT BE PLOWED DURING WINTER. SHOULD ACCESS BE REQUIRED, SNOWMOBILE AND/OR TRACKED VEHICLES WILL BE UTILIZED.
3) STONE ACCESS PATH WILL BE MAINTAINED EACH SPRING AND FALL BY:
   - 3)1) CLEARING ALL DEBRIS, INCLUDING BY NOT LIMITED TO LEAVES, TREES BRANCHES AND OTHER OBJECTS THAT WOULD LIMIT THE STONES ABILITY TO INFILTRATE.
   - 3)2) INSPECT AND MAINTAIN WATER BARS / STORMWATER DEVICES TWICE A YEAR, AND AFTER ALL MAJOR RAIN EVENTS.
4) SPEED LIMITED TO 10 MPH.
5) IT SHOULD BE NOTED THAT THE EXISTING ACCESS PATH HAS HISTORICALLY BEEN UTILIZED AS LOGGING PATH/AGRICULTURAL PATH/ SNOWMOBILE VAST PATH (PORTION). THIS PATH WILL BE UTILIZED FOR ACCESS TO THE TELECOMMUNICATIONS COMPOUND IN ORDER TO REDUCE PERMANENT DISTURBANCE AREAS. IT IS EXPECTED THAT THIS PRIVATE PATH WILL CONTINUE TO BE UTILIZED BY THESE OPERATIONS IN THE FUTURE. INSPECTIONS SHOULD BE COMPLETED PRIOR TO LOGGING OPERATIONS AS WELL AS UPON COMPLETION. ANY DEFICIENCIES ARE TO BE REPAIRED BY THE LOGGING COMPANY.

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WALLINGFORD

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SHEET TITLE

PROPOSED COMPOUND PLAN

SHEET NUMBER

Z-3

LEGEND

- (E) MAJOR CONTOUR
- (E) MINOR CONTOUR
- PROP. EASEMENT/LEASE AREA
- PROP. CHAIN LINK FENCE
- EROSION CONTROL BARRIER
- (E) OVERHEAD UTILITY WIRES
- (P) ELECTRICAL UTILITY CONDUIT
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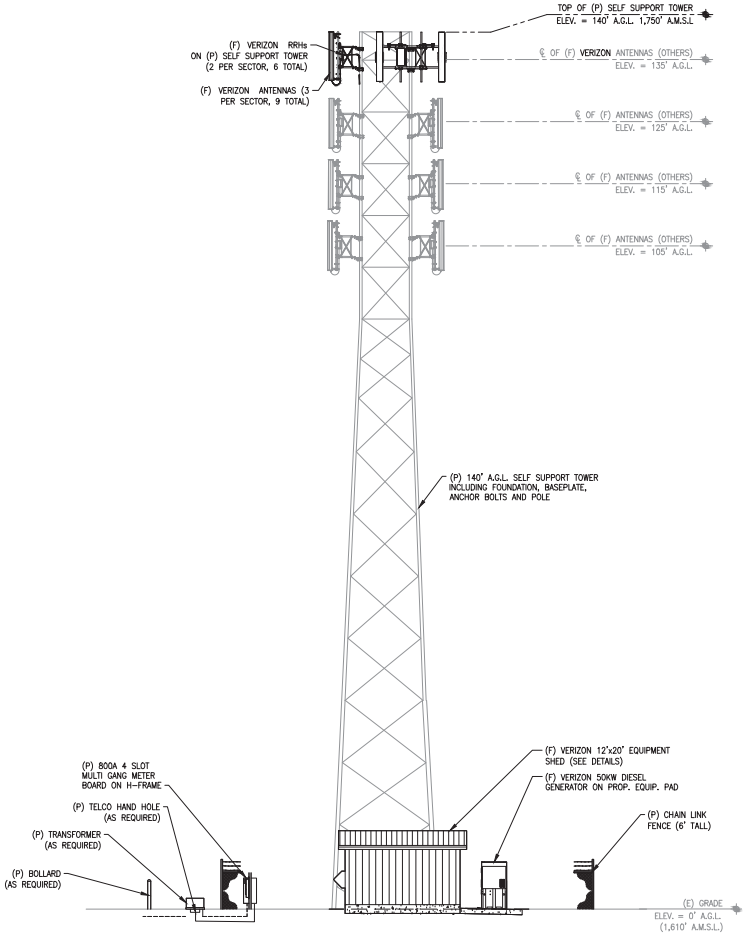
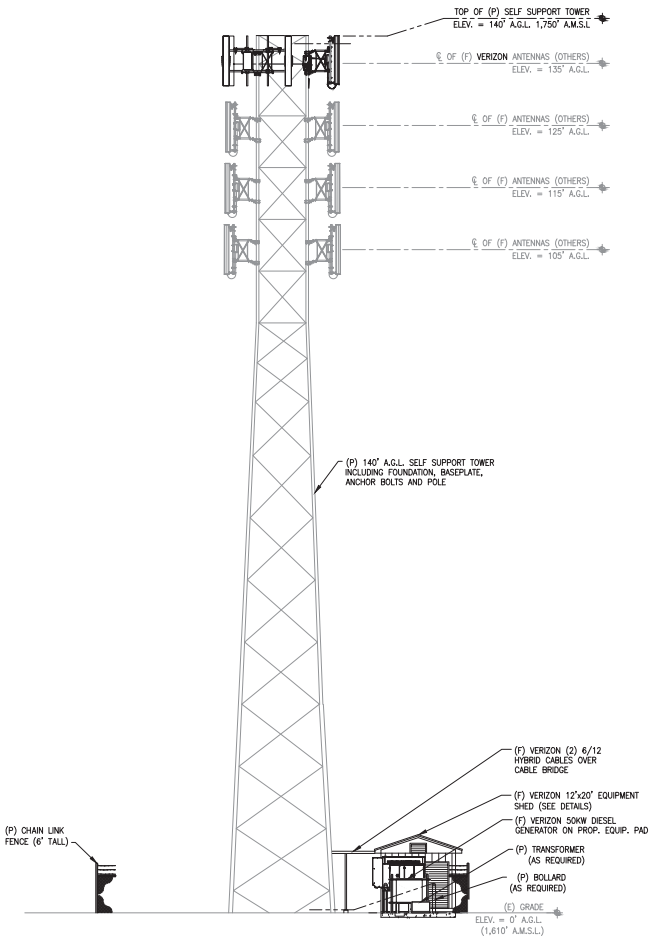


1 Z-4 TOWER ELEVATION

SCALE: 22x34: 1"=10'
11x17: 1"=20'

0 10' 20' 30'



2 Z-4 TOWER ELEVATION

SCALE: 22x34: 1"=10'
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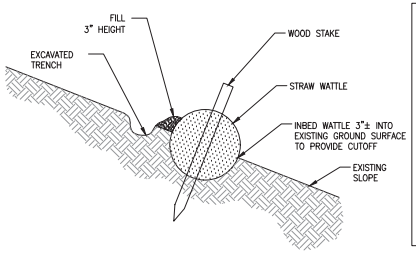
SHEET TITLE

PROPOSED COMPOUND ELEVATIONS

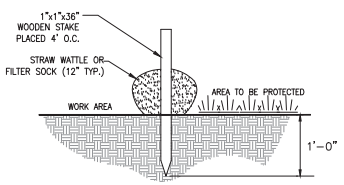
SHEET NUMBER

Z-6

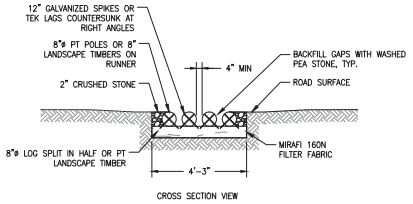


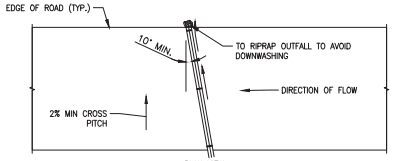
EROSION AND SEDIMENT CONTROL NOTES:

1. PRIOR TO STARTING ANY WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
2. CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONRTOL MEASURES, AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWELVE HOURS AFTER EACH STORM EVENT AND DISPOSE OF SEDIMENTS IN AN UPLAND AREA SUCH THAT THEY DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
3. CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.
4. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.
5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE SYSTEM.

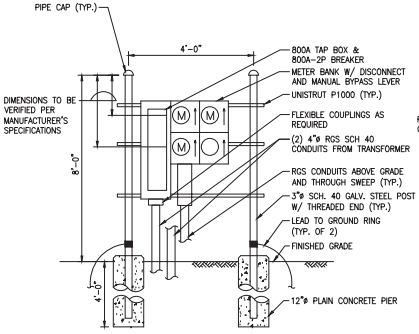


1 / Z-5 EROSION CONTROL BARRIER DETAIL
SCALE: NTS

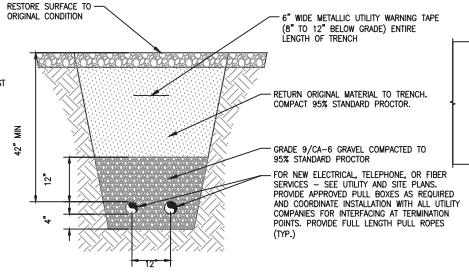




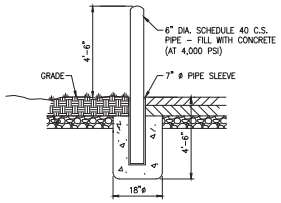
10 / Z-5 POLE CULVERT DETAIL
SCALE: N.T.S.



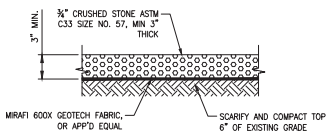
3 / Z-5 METER BOARD DETAIL
SCALE: N.T.S.



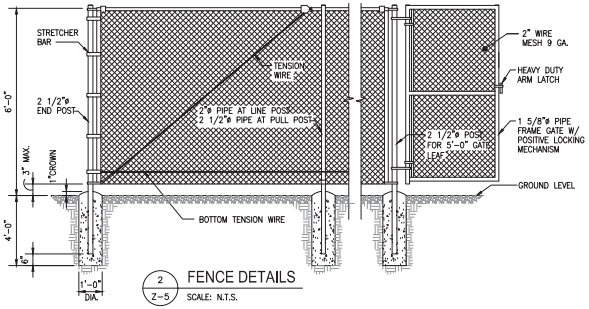
4 / Z-5 TRENCH DETAIL AT ACCESS CROSSING
SCALE: N.T.S.



6 / Z-5 BOLLARD DETAIL
SCALE: N.T.S.



7 / Z-5 STONE COMPOUND DETAIL
SCALE: N.T.S.



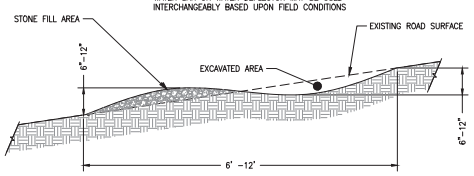
2 / Z-5 FENCE DETAILS
SCALE: N.T.S.

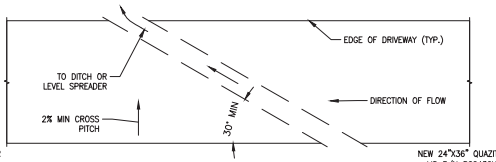
SPACING NEEDED BETWEEN WATER BARS	
SLOPE	DIVERSION SPACING (FT)
< 5%	NONE
5%–10%	200
10%–20%	150
20%–35%	100

WATER BAR OR WATER DEFLECTOR MAY BE USED INTERCHANGEABLY BASED UPON FIELD CONDITIONS

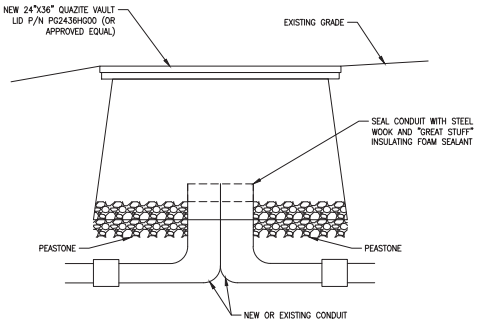
FENCE NOTES:

1. INSTALL FENCING PER ASTM F-567, SWING GATE PER ASTM F-900.
2. ALL END POSTS, LINE POSTS, PULL POSTS, POSTS FOR GATE LEAF, PIPES FOR GATE FRAME AND TOP RAILS SHALL BE SCHEDULE 40 PIPE PER ASTM F-1083.
3. FABRIC SHALL BE 12 GA. CORE WIRE SIZE 2" MESH CONFORMING TO ASTM A-392.
4. TENSION WIRE SHALL BE 7 GA. GALV. STEEL.
5. TIE WIRE SHALL BE 11 GA. GALV. STEEL (MIN.) AT POSTS AND RAILS. A SINGLE WRAP FABRIC TIE AT TENSION WIRE BY HOG RINGS SPACED MAX. OF 24" INTERVALS
6. BARBED WIRE SHALL BE DOUBLE STRAND 12 1/2" O.D. TWISTED WIRE TO MATCH W/FABRIC 14 GA., 4 PT. BARBS SPACES AT APPROXIMATELY 5" O.C.
7. COMPLY WITH LOCAL ORDINANCES OF BARBED WIRE PERMIT REQUIREMENTS, IF REQUIRED.
8. STEEL FENCE SYSTEM SHALL INCLUDE THE FENCE POSTS, FABRIC, GATE SYSTEM AND ALL NECESSARY ERECTION ACCESSORIES, FITTINGS AND FASTENINGS. ALL FENCE SYSTEM COMPONENTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153. GATES SHALL BE SWING GATES WITH 5'-0" LEAFS. REFER TO TYPICAL FENCE DETAIL FOR ADDITIONAL INFORMATION. INSTALL FENCE AFTER CONCRETE HAS ATTAINED 75% OF 28 DAY DESIGN STRENGTH.
9. SCREENING SLATS SHALL BE INSTALLED ON PROPOSED FENCING (COLOR: GREEN OR AS DET'S BY PROJECT OWNER)

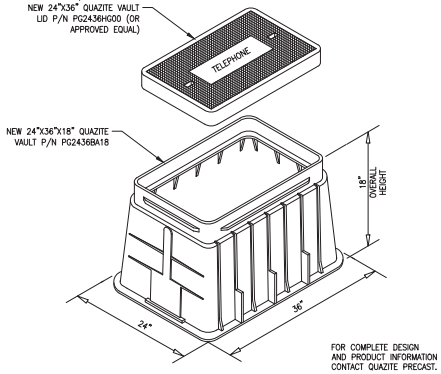




11 / Z-5 WATER BAR DETAIL
SCALE: N.T.S.



5 / Z-5 TELCO HANDHOLE WITH LID DETAIL
SCALE: N.T.S.



9 / Z-5 TELCO HANDHOLE ISOMETRIC
SCALE: N.T.S.

verizon
VERIZON WIRELESS
51 ALDER STREET
MEDWAY, MA 02053

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STATE OF VERMONT
SCOTT N. ADAMS
NO. 135423
CIVIL
LICENSED
PROFESSIONAL ENGINEER

AEG PROJECT #: 2023-0079

DRAWN BY: MFR

CHECKED BY: SNA

SUBMITTALS

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VT-VT-0120A

WALLINGFORD

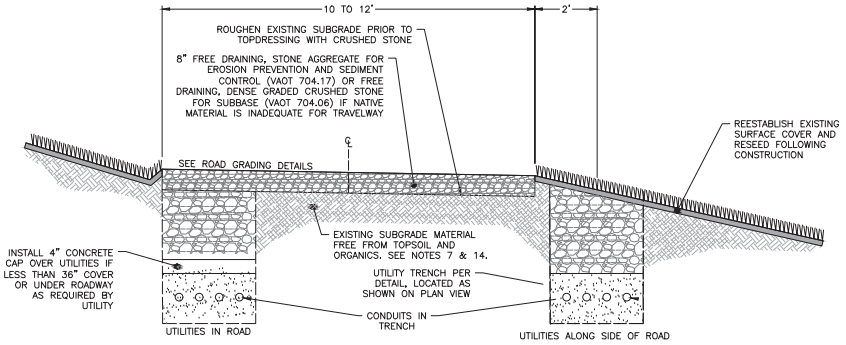
100 SEWARD HILL ROAD
EAST WALLINGFORD, VT
05742
RUTLAND COUNTY

SHEET TITLE

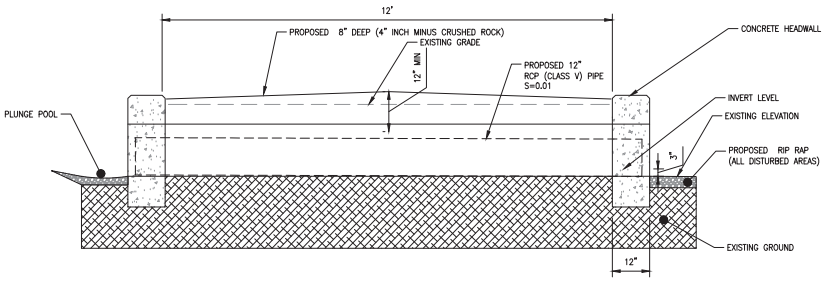
SITE DETAILS

SHEET NUMBER

Z-5



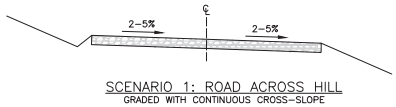
1 Z-6 PERVIOUS AGGREGATE ACCESS ROAD CROSS SECTION (TYP.)
SCALE: NTS



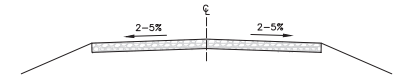
2 Z-6 CULVERT CROSS SECTION
SCALE: NTS

ACCESS ROAD NOTES:

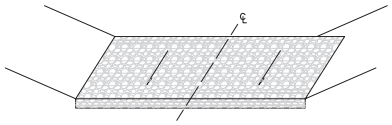
1. ACCESS TO FOLLOW EXISTING PATHS WHENEVER FEASIBLE.
2. TREE CLEARING SHALL BE LIMITED TO THE MINIMUM REQUIRED TO PERMIT CONSTRUCTION VEHICLE ACCESS. SEE PLAN FOR CLEARING LIMITS. STUMPS OUTSIDE THE ACCESS, UTILITY TRENCH, OR FILL LIMITS SHALL BE LEFT IN PLACE.
3. CONSTRUCTION STANDARDS SHALL MEET OR EXCEED THOSE OUTLINED IN "THE ACCEPTABLE MANAGEMENT PRACTICES FOR MAINTAINING WATER QUALITY ON LOGGING JOBS IN VERMONT" HANDBOOK.
4. UTILITY TRENCH LOCATION SHOWN AS TYPICAL. REFER TO SITE PLAN FOR UTILITY PLACEMENT.
5. STABILIZE ALL EXPOSED SOILS IN CONFORMANCE WITH THE LOW RISK HANDBOOK OR STORMWATER CONSTRUCTION GENERAL PERMIT. AT A MINIMUM ALL SOILS SHALL BE STABILIZED WITHIN 14 DAYS.
6. CONTRACTOR TO FOLLOW STATE OF VERMONT LOW RISK HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL. SEE EPSC LOW RISK HANDBOOK.
7. REMOVE UNSUITABLE SUBGRADE MATERIAL AND REPLACE WITH CRUSHED STONE AGGREGATE OR NATIVE MATERIAL AND SLOPE TO PROVIDE STABLE WORKING SURFACE.
8. CUT/FILL SLOPES TO BE RE-SEEDED AND STABILIZED WITH MULCH, EROSION CONTROL MATTING, STONE RIPRAP, AND/OR WOOD CHIPS ONCE FINAL GRADE HAS BEEN ESTABLISHED.
9. ACCESS ROAD TO BE GRADED WITH A MINIMUM OF 2% CROSS-SLOPE.
10. RE-VEGETATED SLOPES EXCEEDING 3H:1V UPON RESTORATION TO BE MATTED WITH JUTE MAT EROSION CONTROL BLANKETS, NORTH AMERICAN GREEN S150BN, OR APPROVED EQUIVALENT.
11. INSTALL EROSION CONTROLS IN ACCORDANCE WITH THE SITE PLANS AND PROJECT PERMITS. ADDITIONAL EROSION CONTROLS MAY BE REQUIRED AS DIRECTED BY THE PROJECT ENVIRONMENTAL COMPLIANCE INSPECTOR OR THE ON-SITE PLAN COORDINATOR.
12. INSTALL PERMANENT WATER BARS IN ACCORDANCE WITH TYPICAL DETAIL.
13. MINIMALLY COMPACT EXISTING SUBGRADE MATERIAL AS NECESSARY TO CREATE A STABLE WORKING SURFACE FOR CONSTRUCTION ACCESS, WITHOUT OVER-COMPACTING AND CREATING AN IMPERVIOUS SURFACE. FOLLOWING HEAVY CONSTRUCTION TRAFFIC, TILL OR BACK BLADE THE ACCESS ROAD SUBGRADE PRIOR TO SURFACE COURSE PLACEMENT TO PROMOTE INFILTRATION.



SCENARIO 1: ROAD ACROSS HILL
GRADED WITH CONTINUOUS CROSS-SLOPE



SCENARIO 2: RAISED ROADWAY
GRADED WITH CROWN

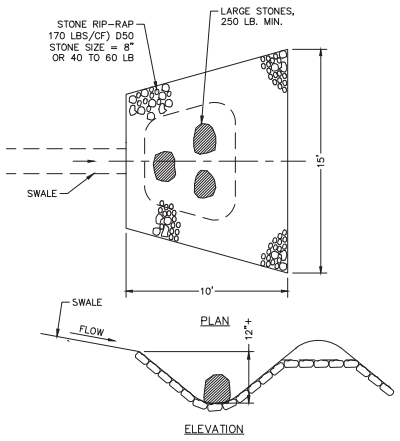


SCENARIO 3: ROAD IN VALLEY
GRADED TO DRAIN LONGITUDINALLY, NO CROSS-SLOPE

NOTE:
LIMIT SCENARIO 3 FLOW LENGTH TO 100' MAXIMUM, AND INSTALL A WATERBAR EVERY 50'.

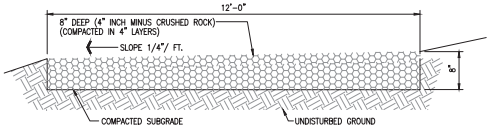
ROAD GRADING DETAILS
NOT TO SCALE

3 Z-6 ROAD GRADING DETAILS
SCALE: NTS



5 Z-6 PLUNGE POOL DETAILS
SCALE: NOTED

CRUSHED ROCK	
SIEVE	% PASSING BY WEIGHT
4"	100
3-1/2"	80-97
2-1/2"	70-95
1-1/2"	50-80
3/4"	30-60

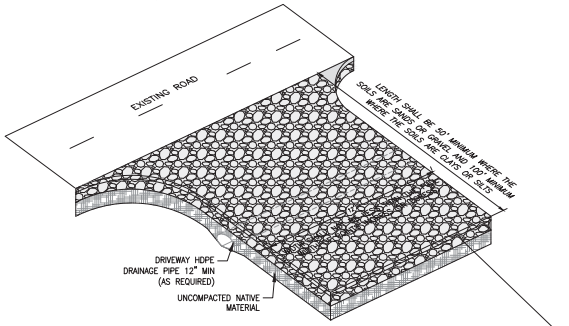


4 Z-6 GRAVEL ACCESS CROSS SECTION
SCALE: NTS

INSTALLATION
THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. THE STONE SHALL BE PLACED TO THE SPECIFIED DIMENSIONS, AS NOTED ABOVE.

MAINTENANCE
THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENTS ONTO PUBLIC RIGHT-OF-WAYS THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE, OR ADDITIONAL LENGTH, AS CONDITIONS DEMAND, AND REPAIR, AND / OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.

LOCATION
SEE GENERAL & LOCATION PLAN FOR LOCATION OF CONSTRUCTION ENTRANCE.



6 Z-6 EROSION CONTROL ENTRANCE PAD DETAIL
SCALE: NTS

verizon
VERIZON WIRELESS
51 ALDER STREET
MEDWAY, MA 02053

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VERTEX TOWERS LLC
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STATE OF VERMONT SCOTT N. ADAMS NO. 135423 CIVIL LICENSED PROFESSIONAL ENGINEER

AEG PROJECT #: 2023-0079

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CHECKED BY: SNA

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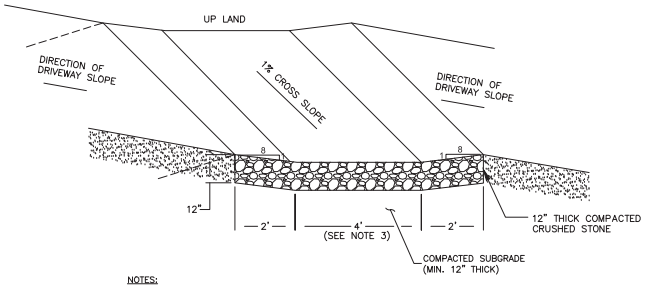
VT-VT-0120A

WALLINGFORD

100 SEWARD HILL ROAD
EAST WALLINGFORD, VT
05742
RUTLAND COUNTY

SHEET TITLE
DETAILS

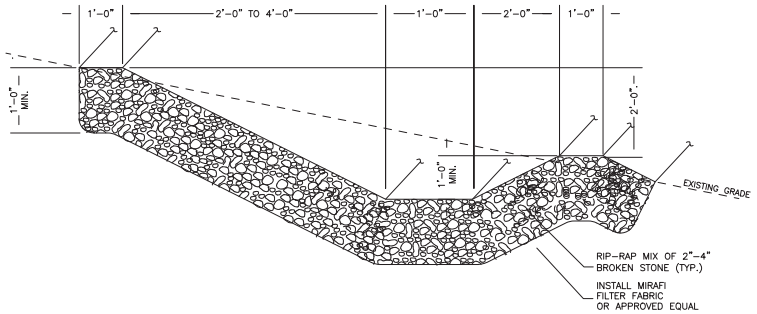
SHEET NUMBER
Z-6



NOTES:

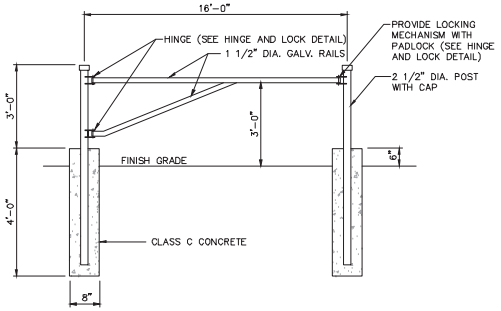
1. TO BE INSTALLED WHERE NECESSARY AND AS SPECIFIED IN THESE PLANS TO MAINTAIN NATURAL FLOW OF SURFACE RUNOFF.
2. MINIMUM SWALE DEPTH: 6".
3. THE 4' WIDE SWALE BASE IS TO BE CONSTRUCTED LEVEL ACROSS ITS WIDTH.

1 / Z-7 CROSS DRAINAGE SWALE DETAIL
SCALE: NTS

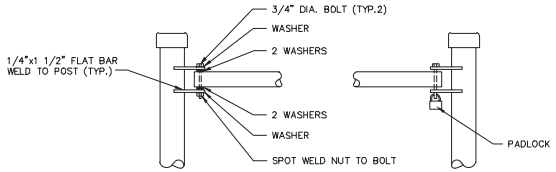


2 / Z-7 LEVEL SPREADER SWALE TYPICAL ELEVATION
SCALE: NTS

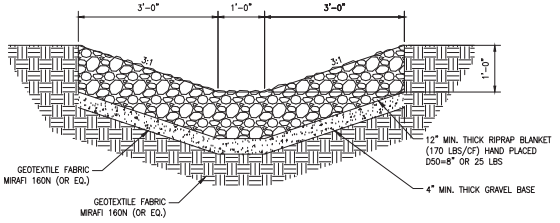
NOTE:
WIDTH OF GATE #4 TO BE 26'-0".
ALL OTHER GATES TO BE 16'-0" WIDE.



ACCESS ROAD GATE DETAIL (IF NEEDED)
NOT TO SCALE



3 / Z-7 ACCESS GATE DETAILS
SCALE: NTS



4 / Z-7 RIPRAP SWALE DETAIL
SCALE: N.T.S.

verizon
VERIZON WIRELESS
51 ALDER STREET
MEDWAY, MA 02053

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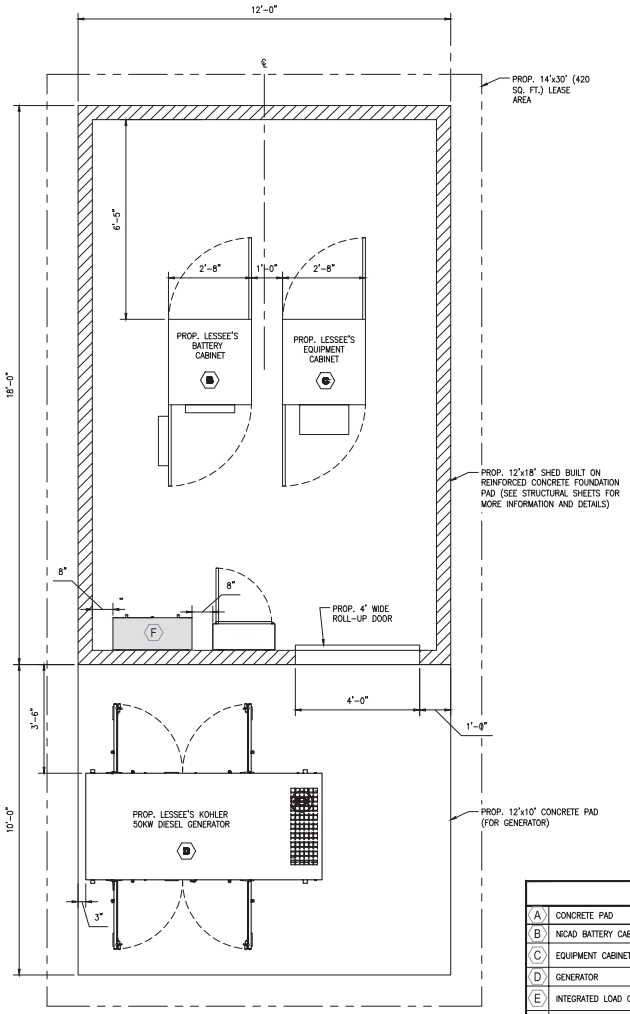
WALLINGFORD

100 SEWARD HILL ROAD
EAST WALLINGFORD, VT
05742
RUTLAND COUNTY

SHEET TITLE
DETAILS

SHEET NUMBER
Z-7



1 Z-8 PROPOSED EQUIPMENT PLAN

SCALE: 22x34: 1"=2'
11x17: 1"=4'

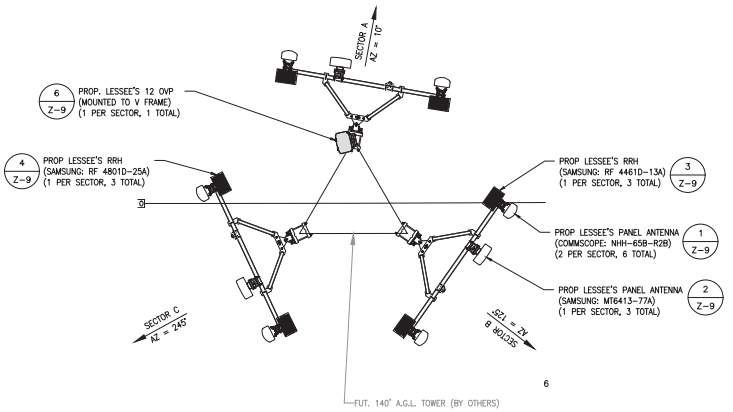
0 2' 4' 6'

EQUIPMENT LEGEND		
A	CONCRETE PAD	12'x20'x12" THICK CONCRETE PAD
B	NICAD BATTERY CABINET	COMMSCOPE CMC74-36B BATTERY CABINET
C	EQUIPMENT CABINET	COMMSCOPECMC74-36E-4KWAC-TC EQUIPMENT CABINET
D	GENERATOR	KOHLER 50KW DIESEL GENERATOR
E	INTEGRATED LOAD CENTER (ILC)	ASCO D300 L-SERIES POWER TRANSFER LOAD CENTER RATED 200A, 240VAC, SINGLE PHASE/ 3 WIRE, TYPE 3R ENCLOSURE
F	TELCO BOX	INTERSECT (T313589-DC48-HE) 39"X20"X20" POWDER COATED ALUMINUM, NEMA 3R JUNCTION BOX/ENCLOSURE
G	LED WORK LAMP	LED WORK LIGHT W/ 60-MINUTE TIMER (TO VERIFY WITH LOCAL CX MANAGER)
H	UNISTRUT H-FRAME	P1000 UNISTRUT 10' LENGTHS & UNISTRUT P2860 END CAPS
J	PIPE COLUMNS W/ BASE SHOE	12" WIDE GRIP-SPAN BRIDGE CHANNEL
K	ICE CANOPY W/ BASE SHOE	10'x12' CANOPY - SITE PRO 1 P/N COV1012-B

VERIZON PROJECT INFORMATION & DIMENSIONS

DIMENSION	REQUIRED	EXISTING	PROPOSED	NET INCREASE
SURFACE AREA OF THE FACES OF THE EQUIPMENT ON SUPPORT STRUCTURE	< 75 SQ.FT.	ANTENNA (0) 0"x0" =0 SQ.FT. ANTENNA (0) 0"x0" =0 SQ.FT. EXISTING EQUIPMENT TOTAL = 0 SQ.FT	ANTENNA: (6) 11.9"X72.9"X7.1" =36.15 SQ.FT. (3) 15.75"X28.9"X5.5" =9.48 SQ. FT. RRH: (3) 15.86"X3.1"X11.93" =1.02 SQ.FT. (3) 14.96"X3.3"X10.24" =1.02 SQ. FT. OVP BOX: (1) 8"X29.5"X12.6" =1.64 SQ.FT. PROPOSED EQUIPMENT TOTAL =49.31 SQ.FT.	CHANGE TO THE FACIAL SURFACE AREA: 49.31 SQ.FT -00.00 SQ.FT 49.31 SQ.FT
MAXIMUM VERTICAL EXTENSION FROM SUPPORT STRUCTURE	< 10'-0"	0'-0"	2'-0"	2'0"
MAXIMUM HORIZONTAL EXTENSION FROM SUPPORT STRUCTURE	< 10'-0"	0'-0"	7'-3"	0'6"
IMPERVIOUS SURFACE AREA BEING ADDED TO SITE	< 300 SQ.FT.	0 SQ.FT.	457 SQ.FT.	457 SQ.FT.

NO PANEL ANTENNAS TO BE REMOVED.
(6) 11.9"X72.9"X7.1" & (3) 15.75"X28.9"X5.5" PANEL ANTENNAS TO BE INSTALLED



NORTH

2 Z-8 PROPOSED ANTENNA PLAN

SCALE: 22x34: 1"=4'
11x17: 1"=8'

0 4' 8' 12'

verizon
VERIZON WIRELESS
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MEDWAY, MA 02053

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WALLINGFORD

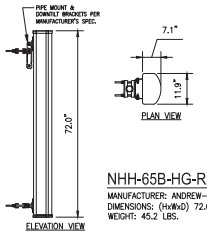
100 SEWARD HILL ROAD
EAST WALLINGFORD, VT
05742
RUTLAND COUNTY

SHEET TITLE

PROPOSED ANTENNA AND EQUIPMENT PLANS

SHEET NUMBER

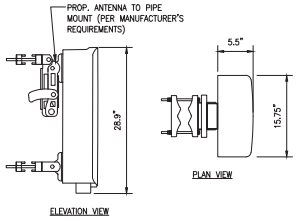
Z-8



NHH-65B-HG-R2B

MANUFACTURER: ANDREW-COMMSCOPE
DIMENSIONS: (HxWxD) 72.0"x11.9"x7.1"
WEIGHT: 45.2 LBS.

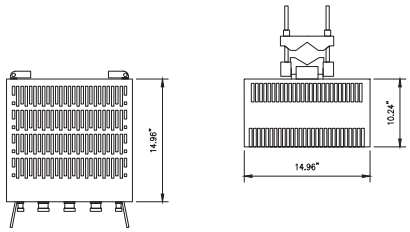
1 Z-9 ANTENNA DETAIL
SCALE: N.T.S.



MT6413-77A ANTENNA

MANUFACTURER: SAMSUNG
DIMENSIONS (HxWxD): 28.9" X 15.75" X 5.5"
WEIGHT: 57.3 LBS.

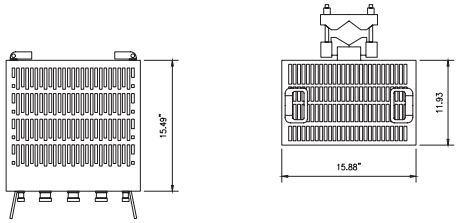
2 Z-9 ANTENNA DETAIL
SCALE: N.T.S.



RF4461D-13A

MANUFACTURER: SAMSUNG
DIMENSIONS: (HxWxD) 14.96"x14.96"x10.24" (WITHOUT FINGER GUARD)
WEIGHT: 79 LBS. (WITHOUT FINGER GUARDS)

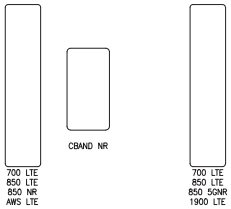
3 Z-9 RRU DETAILS
SCALE: NOT TO SCALE



RF4801d-25A

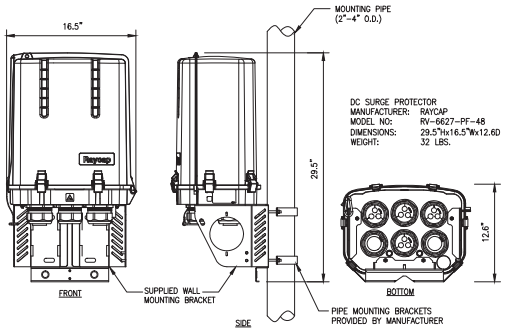
MANUFACTURER: SAMSUNG
DIMENSIONS: (HxWxD) 15.49"x15.88"x11.93"
WEIGHT: 40.4 LBS.
PRELIMINARY (REFER TO MANUFACTURER'S SPECIFICATIONS FOR EXACT DIMENSIONS)

4 Z-9 RRU DETAILS
SCALE: NOT TO SCALE



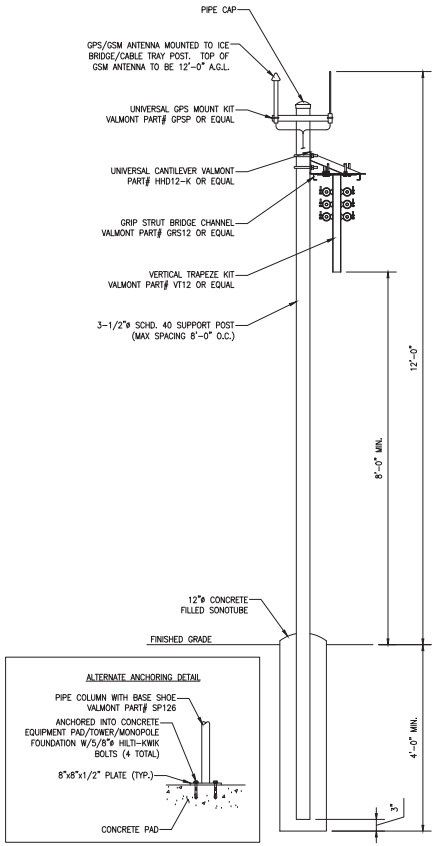
ANTENNAS SHOWN FROM BACKSIDE OF SECTOR

5 Z-9 PROPOSED ANTENNA CONFIG
SCALE: N.T.S.



DC SURGE PROTECTOR
MANUFACTURER: RAYCAP
MODEL NO: RV-6627-PF-48
DIMENSIONS: 29.5"Hx16.5"Wx12.6D
WEIGHT: 32 LBS.

6 A-4 SURGE PROTECTOR (OVP) DETAILS
SCALE: SCALE: N.T.S.



7 A-5 CABLE BRIDGE DETAIL
SCALE: N.T.S.

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STATE OF VERMONT SCOTT N. ADAMS NO. 135423 CIVIL LICENSED PROFESSIONAL ENGINEER

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100 SEWARD HILL ROAD
EAST WALLINGFORD, VT
05742
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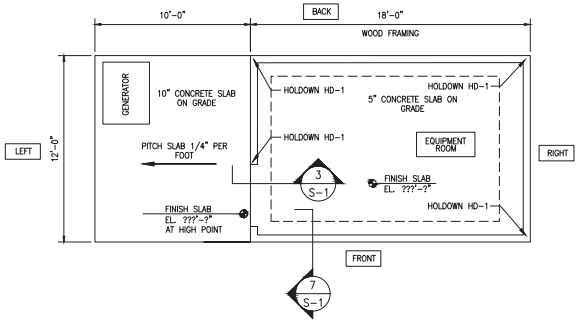
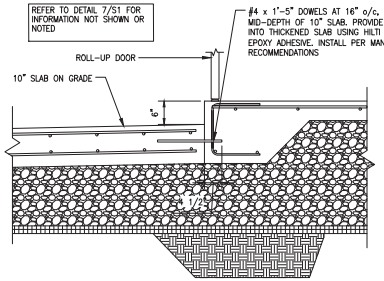


1 S-1 EQUIPMENT BUILDING FOUNDATION/FLOOR PLAN

SCALE: 22x34: 1/4"=1'

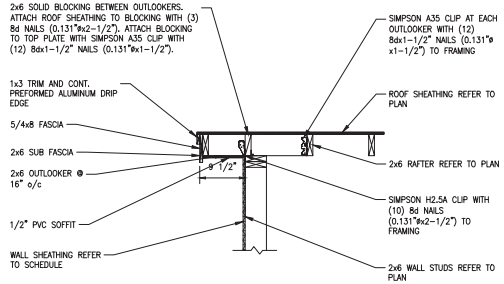
NOTES:

1. 5" SLAB ON GRADE. REINFORCE WITH #4 @ 16" ON CENTER, EACH WAY, PLACED 1-1/4" CLEAR FROM TOP.
2. 10" SLAB ON GRADE. REINFORCE WITH #4 AT 12" ON CENTER, EACH WAY, TOP AND BOTTOM. PLACE TOP BARS 1-1/4" CLEAR FROM TOP OF SLAB, AND BOTTOM BARS 3" CLEAR FROM BOTTOM OF SLAB.
3. REFER TO MECH. DWGS. FOR LOUVER SIZES AND LOCATIONS.
4. INTERIOR AND EXTERIOR SLABS TO RECEIVE A BROOM FINISH.
5. PROVIDE A 3/4" CHAMFER AT EXPOSED EDGES OF 10" EXTERIOR SLABS.



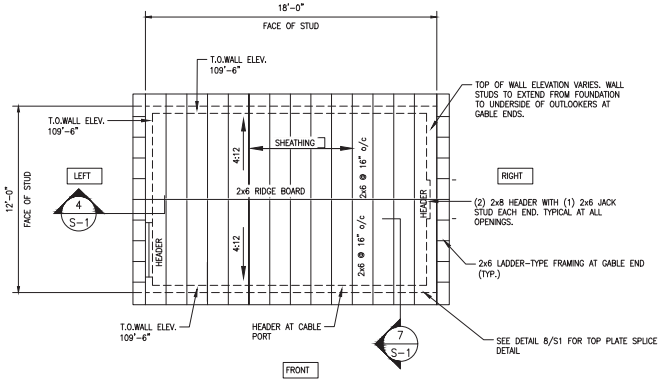
3 S-1 EQUIPMENT BLDG. GENERATOR PAD DETAIL

SCALE: 22x34: 3/4"=1'



4 S-1 GABLE END ROOF DETAIL

SCALE: 22x34: 3/4"=1'

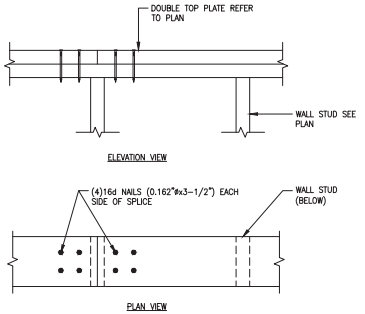


2 S-1 EQUIPMENT BUILDING ROOF FRAMING PLAN

SCALE: 22x34: 1/4"=1'

NOTES:

1. ALL EXTERIOR WOOD WALLS TO BE TYPE-A SHEARWALLS, 2x6 STUDS SPACED AT 16" ON CENTER. REFER TO SHEAR WALL SCHEDULE FOR INFORMATION.
2. REFER TO HOLDOWN SCHEDULE FOR HOLDOWN INFORMATION AND TO FOUNDATION PLAN FOR HOLDOWN LOCATIONS AT RIGHT AND LEFT WALLS.



8 S-1 TOP PLATE SPLICE

SCALE: 22x34: 3/4"=1'

SHEAR WALL PANEL SCHEDULE

MARK	SHEATHING	NAILING			TIE-DOWN [2]	SILL ANCHORS
		SIZE [1]	EDGE	INTERMEDIATE		
TYPE-A	1/2" APA RATED, EXT. FACE	8d	6" o/c	12" o/c	(2) 2x6 SPF	1/2"ø BOLTS @ 32" o/c

NOTES:

1. FASTENERS: 8d COMMON (0.131"ø x2-1/2").
2. FASTEN EDGE CHORD MEMBERS TOGETHER WITH (8) 10d NAILS (0.148"x3"), DISTRIBUTED ALONG MEMBER HEIGHT.

5 S-1 SHEAR WALL SCHEDULE

SCALE: NOT TO SCALE

HOLDOWN / TENSION-TIE SCHEDULE

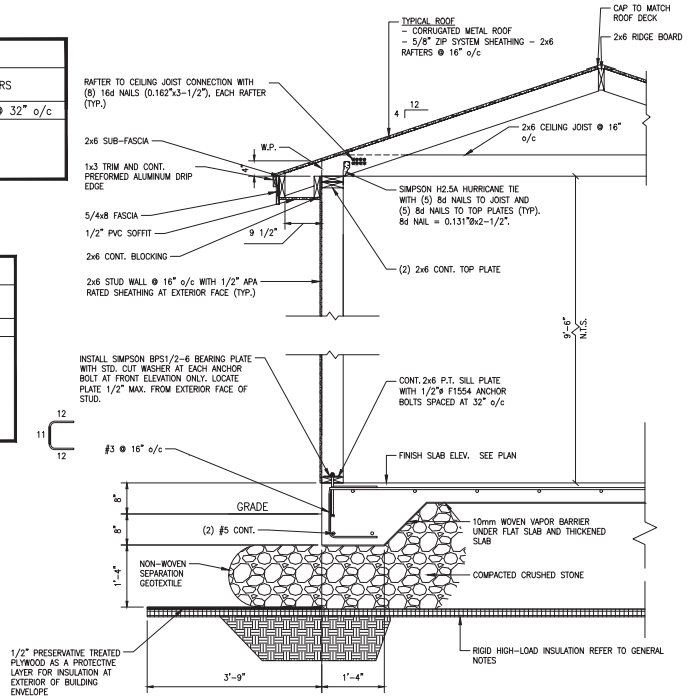
MARK	HOLDOWN	ANCHOR ROD	FASTENERS TO TIE-DOWN [4]	EMBEDMENT DEPTH [3] FOR CAST-IN-PLACE	EMBEDMENT DEPTH [5] FOR POST-INSTALLED
HD-1	HDU2-SDS2.5	5/8"Ø	(6) SDS25212	10"	5-5/8"

NOTES:

1. REFER TO PLAN FOR HOLDOWN LOCATIONS.
2. HOLDOWN HARDWARE AND SDS SCREWS AS MANUFACTURED BY SIMPSON STRONG-TIE.
3. REFER TO TYPICAL DETAILS FOR ANCHOR ROD ATTACHMENT. INSTALL NUT AT EMBEDDED END OF ANCHOR ROD FOR CAST-IN-PLACE OPTION. EMBEDMENT DEPTH LISTED IS TO TOP OF NUT.
4. SDS25212 = 1/4" x 2-1/2" SDS SCREW.
5. POST-INSTALLED ANCHORS TO BE INSTALLED USING HILTI HIT-RE 500 V3 EPOXY ADHESIVE. 5/8"ø HILTI HAS-E THREADED ROD; MAINTAIN 3" MIN. EDGE DISTANCE TO FACE OF CONCRETE.

6 S-1 SHEAR WALL SCHEDULE

SCALE: NOT TO SCALE



7 S-1 EQUIPMENT BUILDING SECTION

SCALE: 22x34: 3/4"=1'

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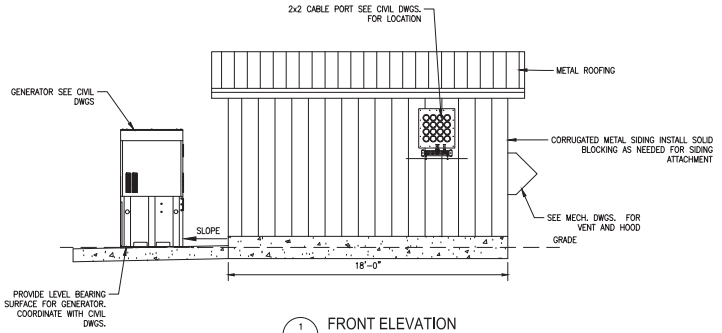
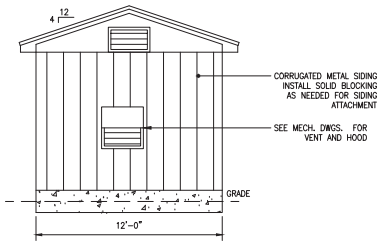
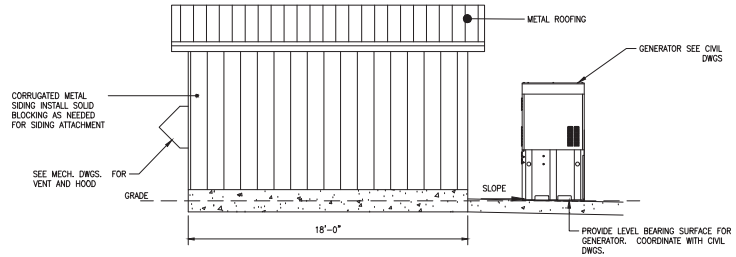


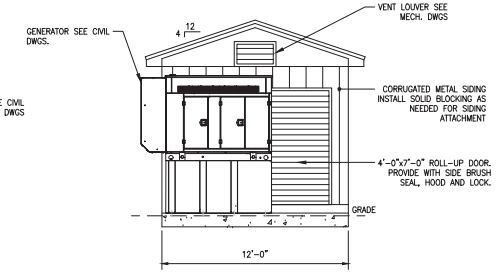
1 S-2 FRONT ELEVATION
SCALE: 22x34: 1/4"=1'



3 S-2 LEFT ELEVATION
SCALE: 22x34: 1/4"=1'



2 S-2 BACK ELEVATION
SCALE: 22x34: 1/4"=1'



4 S-2 RIGHT ELEVATION
SCALE: 22x34: 1/4"=1'

GENERAL

1. USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS AND MECHANICAL, ELECTRICAL AND CIVIL DRAWINGS.
2. PERFORM ALL WORK IN ACCORDANCE WITH APPLICABLE CODES.
3. DO NOT SCALE DIMENSIONS FROM DRAWINGS.
4. DETAILS SHOWN ARE TYPICAL, UNLESS NOTED OTHERWISE.
5. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS, AND REPORT DISCREPANCIES TO ENGINEER BEFORE PROCEEDING WITH THE WORK

EARTHWORK

1. COMPACTED CRUSHED STONE MATERIAL: WASHED, NARROWLY GRADED MIXTURE OF CRUSHED STONE OR GRAVEL, ASTM D448 COARSE AGGREGATE GRADING SIZE 57 WITH 100% PASSING A 1-1/2" SIEVE AND 0%-5% PASSING A NO. 8 SIEVE.
2. FOOTINGS/SLABS: PLACE FOOTING/SLABS ON COMPACTED CRUSHED STONE FILL. ASSUMED BEARING CAPACITY FOR FOUNDATION DESIGN IS 2000 POUNDS PER SQUARE FOOT.

CONCRETE

1. ALL CONCRETE SHALL CONFORM TO REQUIREMENTS AND RECOMMENDATIONS OF ACI 318 "BUILDING CODE REQUIREMENTS OF REINFORCED CONCRETE" AND TO ACI FIELD REFERENCE MANUAL SP-15.
2. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED OR SUPPLEMENTED BELOW.
3. CONCRETE COMPRESSIVE DESIGN STRENGTH AND MIX PROPORTIONS SHALL BE AS OUTLINED BELOW. MIX PROPORTIONS AND DESIGNS SHALL BE SUBMITTED FOR APPROVAL. LIMIT MAXIMUM WATER-SOLUBLE CHLORIDE ION CONTENT IN CONCRETE BY WEIGHT OF CEMENT FOR CAST-IN-PLACE CONCRETE TO 0.15 FOR ALL CONCRETE.

   INTERIOR SLABS ON GRADE:
   CONCRETE CLASS: F2, S0, W1, C1
   COMPRESSIVE STRENGTH = 4,500 PSI
   MAX. W/CM RATIO = 0.45
   AIR CONTENT = 6% +/- 1.5%

   EXTERIOR SLABS ON GRADE:
   CONCRETE CLASS: F3, S0, W1, C2
   COMPRESSIVE STRENGTH = 5,000 PSI
   MAX. W/CM RATIO = 0.40
   AIR CONTENT = 6% +/- 1.5%

4. ALL CONCRETE SHALL BE READY-MIX CONCRETE CONFORMING TO ASTM C94, EXCEPT THAT ADDITION OF WATER WILL NOT BE PERMITTED.
5. CONCRETE SLABS SHALL BE WET CURED. USE OF MEMBRANE-FORMING CURING COMPOUND IS PROHIBITED.
6. INTERIOR SLABS SHALL RECEIVE A FLOAT FINISH. EXTERIOR SLABS SHALL RECEIVE A BROOM FINISH.
7. INTERIOR SLABS SHALL RECEIVE A PENETRATING FLOOR SEALER. APPLY ASHFORD FORMULA OR APPROVED EQUAL TO EXPOSED CONCRETE SURFACES IN STRICT COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS.
8. REINFORCING STEEL: ASTM A615 GRADE 60.
9. FOUNDATION INSULATION: ASTM C578 TYPE VII RIGID INSULATION. SINGLE LAYER SHALL BE 1-1/2" MINIMUM THICKNESS. ALTERNATE INSULATION MAY BE (2) LAYERS OF 1" TYPE VII RIGID INSULATION, WITH TOP LAYER PLACE 90° TO BOTTOM LAYER.

WOOD FRAMING

1. ALL WOOD CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" BY THE NATIONAL FOREST PRODUCTS ASSOCIATION AND TO LOCAL BUILDING CODES.
2. ALL WOOD MEMBERS 2x4 AND LARGER SHALL BE SPRUCE-PINE-FIR, NO. 2 GRADE OR BETTER.
3. ALL PRESSURE TREATED WOOD MEMBERS SHALL BE SOUTHERN PINE NO. 2 GRADE OR BETTER. ALL METAL CONNECTORS, ANCHORS AND FASTENERS USED FOR PRESERVATIVE TREATED WOOD SHALL BE STAINLESS STEEL OR HOT-DIPPED GALVANIZED AS RECOMMENDED BY THE CONNECTOR, ANCHOR OR FASTENER MANUFACTURER.
4. ALL WOOD HEADERS AT BEARING WALLS SHALL BE A MINIMUM OF (2) 2x8's, UNLESS NOTED OTHERWISE. WOOD MEMBERS USED FOR HEADERS, OR BUILT-UP BEAMS SHALL NOT HAVE CHECKS OR SPLITS LONGER THAN THE WIDE FACE WIDTH.
5. EXTERIOR WALL AND ROOF SHEATHING SHALL BE 5/8" ADVANTECH ZIP SYSTEM.

BUILDING MATERIALS

1. FINISHES:
   A. ROOFING: MINIMUM 24 GAGE CORRUGATED METAL OVER GRACE ICE & WATER SHIELD.
   B. WALLS: SEE DETAILS.
   C. CEILING: NONE.
   D. FLOOR: CONCRETE SLAB. SEE CONCRETE NOTE #6 ABOVE.

2. INSULATION:
   A. BELOW FLOOR SLAB AND OUTSIDE BUILDING PERIMETER: REFER TO CONCRETE NOTES ABOVE.
   B. ROOF: NONE.
   C. WALLS: NONE.

3. LOUVERS: REFER TO MECHANICAL DRAWINGS.

DESIGN CRITERIA

1. CODES: IBC 2015 AND ASCE 7-10, AS AMENDED BY THE 2015 VERMONT FIRE AND BUILDING SAFETY CODE.
2. BUILDING/STRUCTURE RISK CATEGORY: III.
3. ROOF LOADS:
   RAFTER DEAD: 8 PSF
   CEILING DEAD: 8 PSF
   ROOF LIVE: 20 PSF
4. SNOW LOADS:
   GROUND SNOW: Pg = 50 PSF
   EXPOSURE FACTOR: Ce = 1.2
   THERMAL FACTOR: Ct = 1.2
   IMPORTANCE FACTOR: Is = 1.10
   FLAT ROOF SNOW LOAD: Pf = 55.4 PSF
   SLOPE ROOF SNOW LOAD: Ps = 52 PLUS DRIFT
5. FLOOR LIVE LOADS: 125 PSF
6. WIND LOADS:
   WIND SPEED: V = 120 MPH
   NOMINAL WIND SPEED: VASD = 93 MPH
   IMPORTANCE FACTOR: Iw = 1.0
   EXPOSURE: B
   INTERNAL PRESSURE COEFFICIENT: GCpi = +/- 0.18
   COMPONENTS AND CLADDING: ASCE 7-10
7. SEISMIC LOADS:
   IMPORTANCE FACTOR: Ie = 1.25
   MAPPED SPECTRAL RESPONSE COEFFICIENTS: S_S = 0.338, S1 = 0.105
   SITE CLASS: D (ASSUMED)
   SPECTRAL RESPONSE COEFFICIENTS: SDS = 0.345, SD1 = 0.166
   SEISMIC DESIGN CATEGORY: C
   SEISMIC FORCE RESISTING SYSTEM: BEARING WALL SYSTEM WITH LIGHT-FRAMED WOOD WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE.

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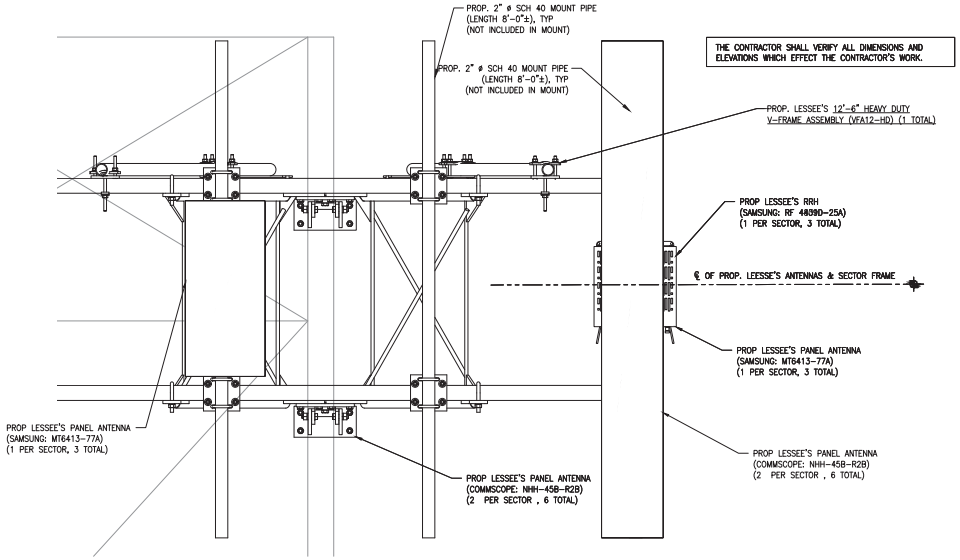
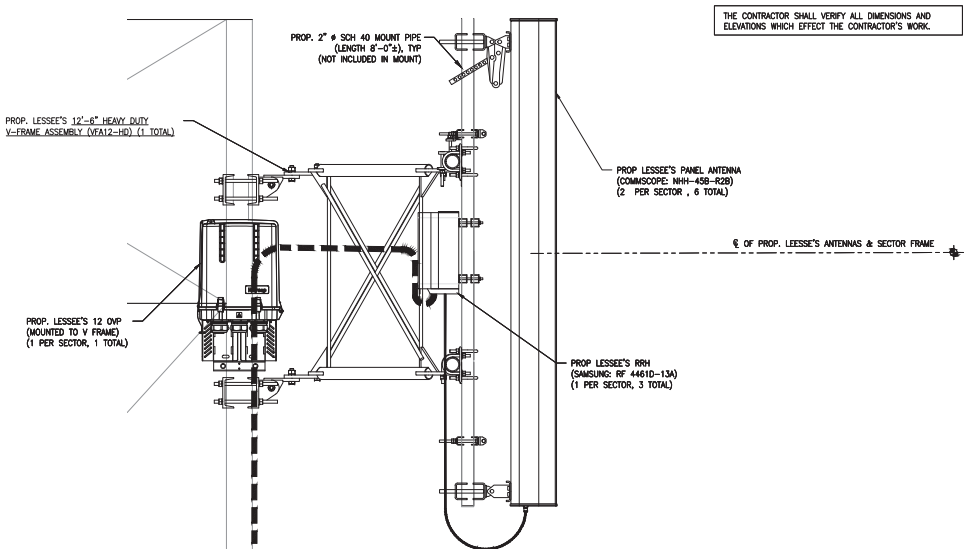


1 s-1 ANTENNA MOUNT DETAIL

SCALE: 1"=1'-0"



2 s-1 ANTENNA MOUNT DETAIL

SCALE: 1"=1'-0"

STRUCTURAL NOTES:

1. DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, ANSI/ASCE7, EIA/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES.
2. 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 ENGINEER OF RECORD.
3. DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
4. STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.
5. STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE A, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
6. STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 5/8" DIA. UNLESS OTHERWISE INDICATED.
7. 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.
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. FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZINC BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
10. 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". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION.
11. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
12. UNISTRUTS SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP, WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1-5/8"x1-5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
13. EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF 1/2" DIAMETER STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS. AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-70 SYSTEMS (AS SPECIFIED IN DWG.) OR ENGINEERS APPROVED EQUAL WITH 4-1/4" MIN. EMBEDMENT DEPTH.
14. EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT II OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE 3-1/2".
15. GRAVEL SUB BASE AND CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL.
16. CONCRETE FOR FENCE AND ICE BRIDGE SUPPORT SHALL BE 3000 PSI AIR ENTRAINED (4%-6%) NORMAL WEIGHT CONCRETE.
17. ALL CAST IN PLACE CONCRETE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318 AND ACI 301.
18. THE FOLLOWING MINIMUM CONCRETE COVER OVER REINFORCING STEEL SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
    CONCRETE CAST AGAINST EARTH ... 3"
    CONCRETE EXPOSED TO EARTH OR WATER
    #6 AND LARGER ..... 2"
    #5 AND SMALLER ..... 1-1/2"

    ALL EXPOSED EDGES SHALL BE PROVIDED WITH A 3/4"x3/4" CHAMFER UNLESS NOTED OTHERWISE.
19. LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.

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VT-VT-0120A

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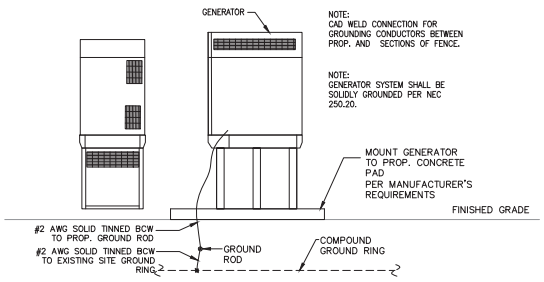
100 SEWARD HILL ROAD
EAST WALLINGFORD, VT
05742
RUTLAND COUNTY

SHEET TITLE

ANTENNA MOUNT DETAILS
& STRUCTURAL NOTES

SHEET NUMBER

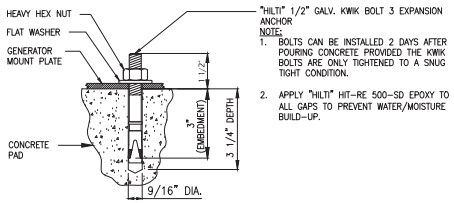
S-3



ELEVATION

1 S-4 GENERATOR DETAILS

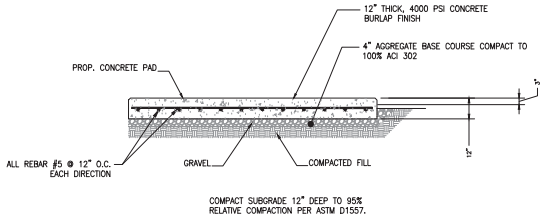
SCALE: N.T.S.



NOTE:
1. BOLTS CAN BE INSTALLED 2 DAYS AFTER POURING CONCRETE PROVIDED THE KWIK BOLTS ARE ONLY TIGHTENED TO A SNUG TIGHT CONDITION.
2. APPLY "HILTI" HIT-RE 500-SD EPOXY TO ALL GAPS TO PREVENT WATER/MOISTURE BUILD-UP.

3 S-4 HILTI BOLT DETAIL

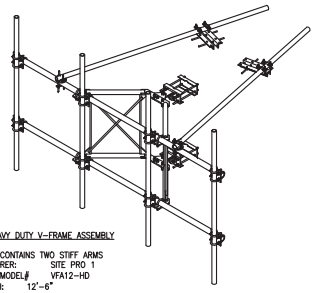
SCALE: N.T.S.



COMPACT SUBGRADE 12" DEEP TO 95% RELATIVE COMPACTION PER ASTM D1557.

4 S-4 CONCRETE PAD DETAIL

SCALE: N.T.S.



12'-6" HEAVY DUTY V-FRAME ASSEMBLY

ASSEMBLY CONTAINS TWO STIFF ARMS
MANUFACTURER: SITE PRO 1
ASSEMBLY MODEL#: VFA12-HD
FACE WIDTH: 12'-6"
TOTAL WEIGHT: 645.31 LBS. PER FRAME
WEIGHT EXCLUDES MOUNT PIPES

5 A-3 PLATFORM MOUNT DETAIL

SCALE: N.T.S.

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STATE OF VERMONT SCOTT N. ADAMS NO. 135423 CIVIL LICENSED PROFESSIONAL ENGINEER

AEG PROJECT #: 2023-0079

DRAWN BY: MFR

CHECKED BY: SNA

SUBMITTALS

REV#	DATE	DESCRIPTION
0	05/24/25	ISSUED FOR REVIEW
1	07/03/25	ISSUED FOR REVIEW
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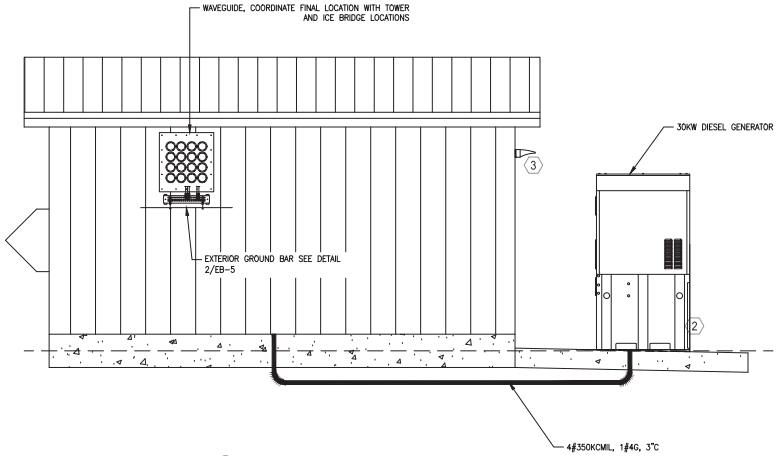
SHEET TITLE

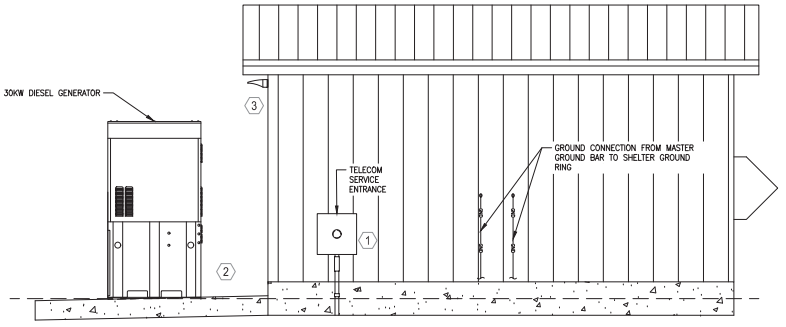
STRUCTURAL DETAILS

SHEET NUMBER

S-4



1 EB-2 EXTERIOR ELEVATION "A"
SCALE: 22x34: 3/8"=1'



2 EB-2 EXTERIOR ELEVATION "C"
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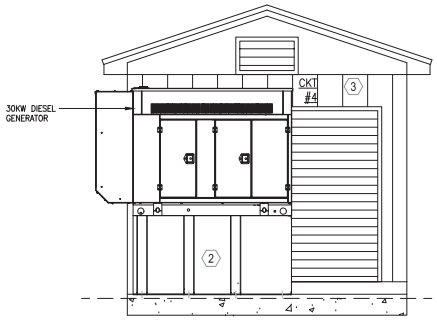
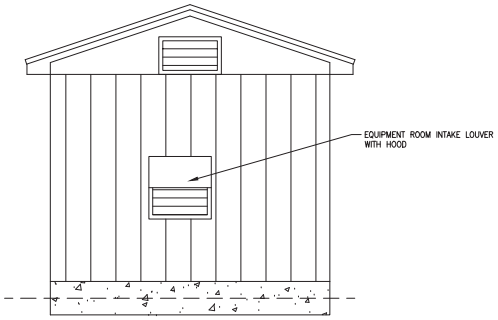


3 EB-2 EXTERIOR ELEVATION "B"
SCALE: 22x34: 3/8"=1'



4 EB-2 EXTERIOR ELEVATION "D"
SCALE: 22x34: 3/8"=1'

GENERAL NOTES:

1. COORDINATE BUILDING CONSTRUCTION WITH STRUCTURAL DRAWINGS.
2. COORDINATE FINAL MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL DRAWINGS.
3. COORDINATE WITH ELECTRICAL SITE DRAWINGS FOR FINAL CONNECTIONS OF GROUNDING CABLES.

KEY NOTES:

1. PROVIDE 2" SCH 40 PVC FROM UTILITY POLE TO TELECOM PULLBOX. PROVIDE 2" SCH 40 THRU WALL INTO SHELTER.
2. PROVIDE CONNECTION OF CONDUIT AND WIRING FROM VERIZON BATTERY CABINET TO GENERATOR PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE RAB WPLED10 MOUNT 6" ABOVE DOOR.

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SHED DETAILS

SHEET NUMBER

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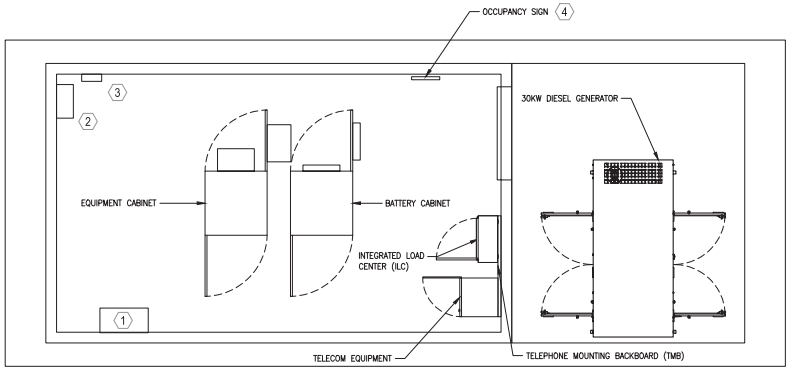
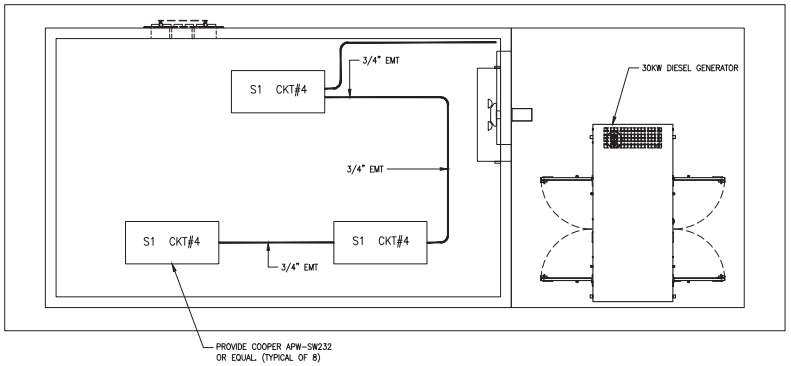


1 EB-3 EQUIPMENT FLOOR PLAN
SCALE: 22x34: 3/8"=1'



2 EB-3 REFLECTED CEILING PLAN - ELECTRICAL
SCALE: 22x34: 3/8"=1'

GENERAL NOTES:

1. CONTRACTOR TO CONFIRM ALL EQUIPMENT LOCATIONS WITH OWNER.
2. COORDINATE BUILDING CONSTRUCTION WITH STRUCTURAL DRAWINGS.
3. COORDINATE FINAL MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL DRAWINGS.
4. COORDINATE WITH ELECTRICAL SITE DRAWINGS FOR FINAL COORDINATE WITH ELECTRICAL SITE DRAWINGS FOR FINAL CONNECTIONS OF GROUNDING CABLES.
5. ALL INTERIOR GROUND CABLES TO BE #2 THHN STRANDED GREEN UNLESS OTHERWISE NOTED.
6. ALL CABLE TRAY TO BE 18" WIDE AND SUSPENDED FROM THE ALL CABLE TRAY TO BE 18" WIDE AND SUSPENDED FROM THE CEILING AS SHOWN WITH 17" HANGERS AND INSULATED CEILING BRACKETS. PROVIDE AUX CABLE BRACKETS AS SHOWN.
7. ALL GROUNDING CABLES TO BE SECURED USING WAX STRING, PLASTIC WIRE TIES NOT PERMITTED
8. ALL CABLES RUN IN EMT OR LIQUID TIGHT FLEXIBLE CONDUIT AND ATTACHED TO ROOF JOISTS.

KEY NOTES:

1. PROVIDE (1) 24" FOLDING TABLE AND (1) ROLLING OFFICE CHAIR FOR WORK SPACE.
2. PROVIDE (1) COMMERCIAL GRADE ROLLING UTILITY CART. HEAVY DUTY POLYMER WITH 3 SHELVES
3. PROVIDE (1) 6' FIBERGLASS STEP LADDER WITH MINIMUM 350 LB. CAPACITY.
4. OCCUPANCY SIGN SHALL BE READILY VISIBLE. DURABLE SIGN IN LETTERS NOT LESS THAN 1" HIGH ON CONTRASTING BACKGROUND THAT READS: "THIS DOOR TO REMAIN OPEN WHEN THE SPACE IS OCCUPIED"

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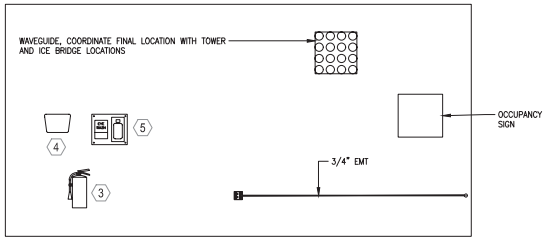
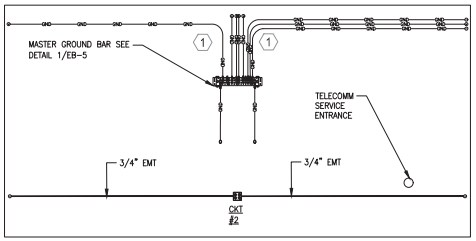
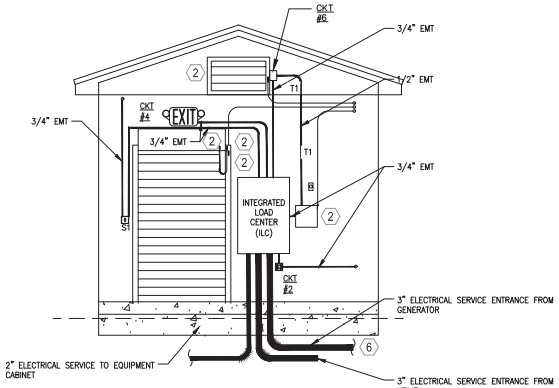


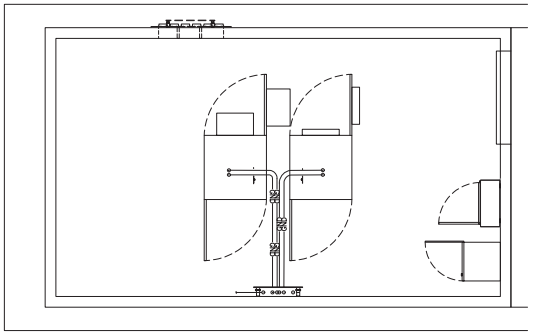
1 EB-4 INTERIOR ELEVATION "A"
SCALE: 22x34: 3/8"=1'



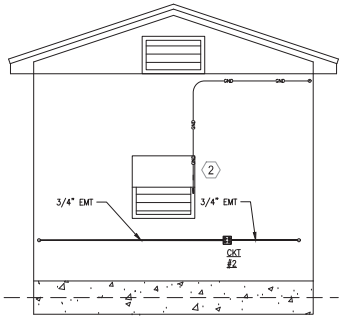
2 EB-4 INTERIOR ELEVATION "C"
SCALE: 22x34: 3/8"=1'



3 EB-4 INTERIOR ELEVATION "B"
SCALE: 22x34: 3/8"=1'



4 EB-4 INTERIOR GROUNDING PLAN
SCALE: 22x34: 3/8"=1'



5 EB-4 INTERIOR ELEVATION "D"
SCALE: 22x34: 3/8"=1'

GENERAL NOTES:

1. CONTRACTOR TO CONFIRM ALL EQUIPMENT LOCATIONS WITH OWNER
2. COORDINATE BUILDING CONSTRUCTION WITH STRUCTURAL DRAWINGS
3. COORDINATE FINAL MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL DRAWINGS
4. COORDINATE WITH ELECTRICAL SITE DRAWINGS FOR FINAL CONNECTIONS OF GROUNDING CABLES
5. ALL INTERIOR GROUND CABLES TO BE #2 THHN STRANDED GREEN UNLESS OTHERWISE NOTED
6. ALL GROUNDING CABLES TO BE SECURED USING WAX STRING. PLASTIC WIRE TIES NOT PERMITTED
7. ALL CABLE TRAY TO BE 18" WIDE AND SUSPENDED FROM THE WALL AS SHOWN WITH INSULATED WALL BRACKETS
8. DO NOT INSTALL RECEPTACLES ABOVE FIXED ELECTRIC BASEBOARD HEATERS PER NEC AND MANUFACTURER'S REQUIREMENTS

KEY NOTES:

1. PROVIDE GROUNDING JUMPER CONNECTION PER NEC ARTICLE 250. PROVIDE BURNDY YGC. YGHC, OR EQUAL
2. PROVIDE GROUNDING LUG CONNECTION PER NEC ARTICLE 250. PROVIDE BURNDY YGA. YGHA. OR EQUAL. PROVIDE WITH MIN 1/4 X 20 SS CAP SCREWS, SS WASHER AND LOCK NUT
3. PROVIDE (1) WALL MOUNTED BADGER 10# CO2 FIRE EXTINGUISHER. FINAL LOCATION DETERMINED IN FIELD
4. PROVIDE (1) WALL MOUNTED PLASTIC FILE TRAY, LR-SMOKE. FINAL LOCATION DETERMINED IN FIELD
5. PROVIDE (1) WALL MOUNTED EYE WASH STATION. SINGLE 32OZ. FINAL LOCATION DETERMINED IN FIELD
6. PROVIDE CONNECTION OF CONDUIT AND WIRING TO GENERATOR PER MANUFACTURE'S RECOMMENDATIONS.

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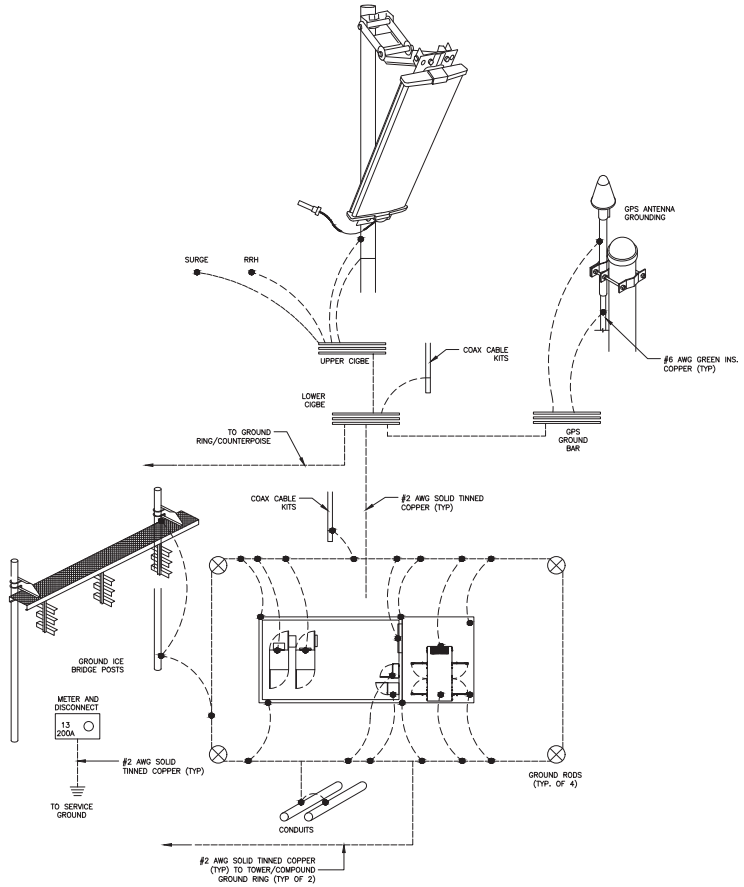
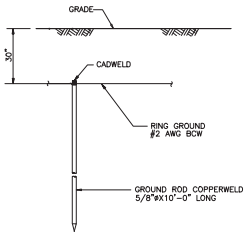
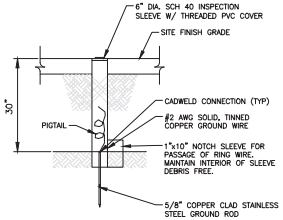
EB-4



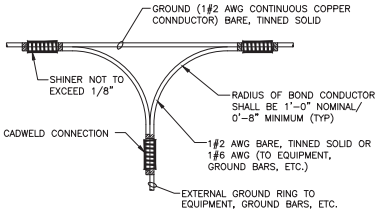
1 G-1 GROUNDING RISER DIAGRAM
SCALE: N.T.S.



8 G-1 TYPICAL GROUND ROD DETAIL
SCALE: N.T.S.

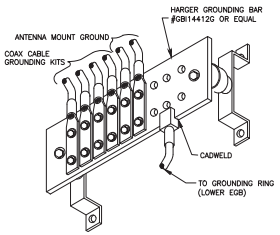


9 G-1 GROUND ROD TEST WELL DETAIL
SCALE: N.T.S.

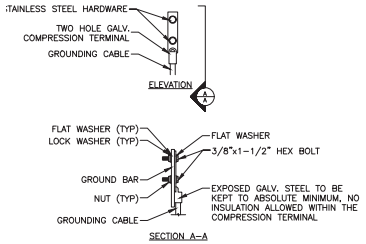


NOTE: ALL CONNECTION TO GROUND SHALL BE NON-DIRECTIONAL

2 G-1 NON-DIRECTIONAL SPLICE
SCALE: N.T.S.

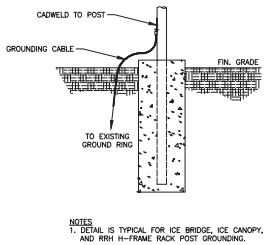


4 G-1 GROUND BAR DETAIL
SCALE: N.T.S.



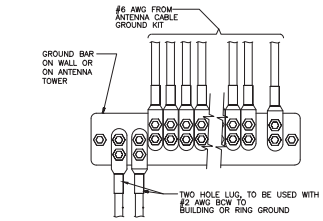
NOTE:
1. "DOUBLING UP" OR "STACKING " OF CONNECTION IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

6 G-1 GROUND BAR MECHANICAL CONN.
SCALE: N.T.S.



NOTES
1. DETAIL IS TYPICAL FOR ICE BRIDGE, ICE CANOPY, AND RRH H-FRAME RACK POST GROUNDING.

10 G-1 STEEL POST GROUNDING
SCALE: N.T.S.



3 G-1 GROUND WIRE TO GROUND BAR INSTALLATION
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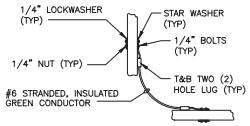
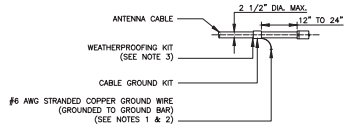


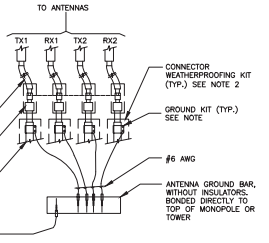
5 G-1 CABLE TRAY GROUNDING
SCALE: N.T.S.



NOTES:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE SUPPLIED WITH KIT. COLD SHRINK SHALL NOT BE USED. 1-2-1 (1"x2"x1") TAPE WRAPPING SHALL BE COMPLETED OVER ALL WEATHER PROOFING CONNECTIONS THAT EXTENDS MINIMUM 6" BEYOND THE CONNECTION POINT ON COAX LINES. EACH WRAP SHOULD OVERLAP THE PROCEEDING LAYER TO ENSURE WATER TIGHT INTEGRITY.

7 G-1 CABLE GROUND KIT ANTENNA CABLE CONN.
SCALE: N.T.S.

NOTES:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.



11 G-1 GROUND WIRE TO GROUND BAR CONN.
SCALE: N.T.S.

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SHEET TITLE
GROUNDING RISER DIAGRAM & DETAILS

SHEET NUMBER
G-1

The Low Risk Site Handbook
for
Erosion Prevention and Sediment Control

VERMONT ENVIRONMENTAL CONSERVATION

August 2006

The Low Risk Site Handbook for Erosion Prevention and Sediment Control

Any construction activity that disturbs 1 or more acres of land, or is part of a larger development plan that will disturb 1 or more acres, requires a Vermont state permit for stormwater discharges from construction sites.

Construction General Permit 3-9020 guides an applicant in the determination of the potential risk to water quality from the construction activity and categorizes the applicant's activity as Low Risk, Moderate Risk, or that which requires an Individual Permit.

The standards in this handbook serve as the required Erosion Prevention and Sediment Control Plan for construction sites determined to be "Low Risk" under GP-3-9020.

Contact Information

Vermont Department of Environmental Conservation
Watershed Management Division
One National Life Drive – Main Building - 2nd Floor
Montpelier, VT 05620-3522
Tel: 802-828-1535
Fax: 802-828-1544
dec.vermont.gov/watershed/stormwater

Table of Contents

UPDATE

Rolled Erosion Control Product (RECP) materials have the potential to ensnare animals such as snakes and birds, which can lead to injury or fatality. This has been observed to be most problematic in products with chemically-bound joints in the supporting mesh.

Accordingly, only woven and interlinked products are approved for use in temporary RECP applications.

(See Tables 4.3 and 4.4 of the Vermont Standards & Specifications for Erosion Prevention and Sediment Control)

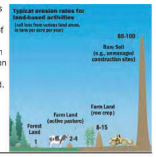
Section 1
Introduction

What is erosion prevention and sediment control?

Sediment washing into streams is one of the largest water quality problems in Vermont. Sediment can kill or weaken fish and other organisms and adversely impact aquatic habitat.

On most construction sites, vegetation that holds the soil in place and protects it from erosive forces of rain and runoff is removed, leaving large areas of soil exposed to the elements. During rainfall or snowmelt, the exposed soil may be easily eroded and transported to nearby streams, lakes, or wetlands.

To prevent this from happening, a small number of simple practices to prevent erosion and contain soil on the construction site must be used.



Do I need a permit?

Any construction activity that disturbs 1 or more acres of land, or is part of a larger development plan that will disturb 1 or more acres, requires a Vermont state permit for stormwater discharges from construction sites.

Application Process

1. Obtain a copy of the permit and determine the Risk Category of the proposed project. The permit is available online at: dec.vermont.gov/watershed/stormwater
2. Submit the Notice of Intent (NOI) form, notifying the Department of your intent to begin construction. **Submit the NOI to DEC at least 60 days before you plan to begin construction to allow sufficient time for processing.*
3. Upon receipt of written authorization from DEC, you are covered under the permit and may begin construction.
4. If your project is determined to be "Low Risk", you must follow this handbook for erosion prevention and sediment control on your construction site.
5. If your site is not classified as Low Risk, then you must follow the Department guidance in GP 3-9020 for Moderate Risk activities or those requiring an Individual Permit.

Section 2
The Requirements

1. Mark Site Boundaries

Purpose:

Mark the site boundaries to identify the limits of construction. Delineating your site will help to limit the area of disturbance, preserve existing vegetation and limit erosion potential on the site.

Requirements:

You must physically mark the limits of construction.

How to comply:

Before beginning construction, walk the site boundaries and flag trees, post signs, or install orange safety fence.

Fence is required on any boundary within 50 feet of a stream, lake, pond or wetland, unless the area is already developed (existing roads, buildings, etc.)

Properly placed barrier tape marks the boundaries and limits of construction on this site.

2. Limit Disturbance Area

Purpose:

Limit the amount of soil exposed at one time to reduce the potential erosion on site.

Requirements:

The permitted disturbance area is specified on the site's written authorization to discharge. Only the acreage listed on the authorization form may be exposed at any given time.

How to comply:

Plan ahead and phase the construction activities to ensure that no more than the permitted acreage is disturbed at one time.

Be sure to properly stabilize exposed soil with seed and mulch or erosion control matting before beginning work in a new section of the site.

This residential subdivision is being constructed in phases. To limit the total disturbance area, only a few home sites are under construction at one time.

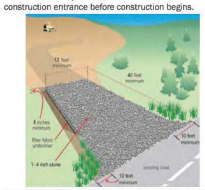
3. Stabilize Construction Entrance

Purpose:

A stabilized construction entrance helps remove mud from vehicle wheels to prevent tracking onto streets.

Requirements:

If there will be any vehicle traffic off of the construction site, you must install a stabilized construction entrance before construction begins.



Construction entrance detail. Entrance/exit pad must keep mud from tracking onto both paved and dirt roads.

How to Install:

Rock Size: Use a mix of 1 to 4 inch stone
Depth: 8 inches minimum
Width: 12 feet minimum
Length: 40 feet minimum (or length of driveway, if shorter)
Geotextile: Place filter cloth under entire gravel bed

Maintenance:

Redress with clean stone as required to keep sediment from tracking onto the street.

Good stabilized construction entrance. Adequate width to accommodate construction traffic and prevent mud tracking onto neighboring streets. Ensure that the pad is 8 inches deep and 40 feet long.

Poor construction exit. Rock pad is poorly constructed; rock is too small. Use filter fabric under 1- 4 inch rock. No mud should be tracked onto roads.

Rock sizing and placement look OK for residential site, and very little mud appears on the road. The pad should be at least 8 inches thick and 12 feet wide. Ensure that pad is used as the entrance and exit points - note track marks near curb. Entire area needs seed and mulch.

Rock pad was installed properly with right sized rock, but lack of filter fabric underliner is causing rock to spread and sink into the soil. Note tracking of mud onto road. Mud tracked on roadways violates the permit requirements and is a potential legal liability.

4. Install Silt Fence

Purpose:

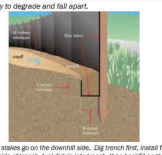
Silt fences intercept runoff and allow suspended sediment to settle out.

Requirements:

Silt fence must be installed:

- on the downhill side of the construction activities
- between any ditch, swale, storm sewer inlet, or waters of the State and the disturbed soil

** Hay bales must not be used as sediment barriers due to their tendency to degrade and fall apart.*



Remember: stakes go on the downhill side. Dig trench first, install fence in downhill side of trench, tuck fabric into trench, then backfill on the uphill side (the side toward the bare soil area).

Where to place:

- Place silt fence on the downhill edge of bare soil. At the bottom of slopes, place fence 10 feet downhill from the end of the slope (if space is available).
- Ensure the silt fence catches all runoff from bare soil.
- Maximum drainage area is ¼ acre for 100 feet of silt fence.
- Install silt fence across the slope (not up and down hills!)
- Install multiple rows of silt fence on long hills to break up flow.
- Do not install silt fence across ditches, channels, or streams or in stream buffers.

How to Install silt fence:

- Dig a trench 6 inches deep across the slope
- Unroll silt fence along the trench
- Ensure stakes are on the downhill side of the fence
- Join fencing by rolling the end stakes together
- Drive stakes in against downhill side of trench
- Drive stakes until 16 inches of fabric is in trench
- Push fabric into trench; spread along bottom
- Fill trench with soil and pack down

Maintenance:

- Remove accumulated sediment before it is halfway up the fence.
- Ensure that silt fence is trenched in ground and there are no gaps.

Very good use of continuous "super" (reinforced) silt fence. Note that wire fencing is installed between the filter fabric and the posts.

Good use of J-hook in silt fence to trap sediment in water running along the fence. Sediment must be removed before it reaches halfway to top of fence.

Very good installation of multiple silt fences on long slope. Turn ends of fencing uphill to prevent bypass. Leave silt fences up until grass is well established on all areas of the slope. Re-seed bare areas as soon as possible. Remove or spread accumulated sediment and remove silt fence after all grass is up.

Poor installation of silt fencing. Silt fence must be trenched in along bottom. Hay bales are not approved as sediment barriers.

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STATE OF VERMONT
SCOTT N. ADAMS
NO. 135423
CIVIL
LICENSED PROFESSIONAL ENGINEER

AEG PROJECT #: 2023-0079

DRAWN BY: MFR

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SUBMITTALS

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VT-VT-0120A

WALLINGFORD

100 SEWARD HILL ROAD
EAST WALLINGFORD, VT
05742
RUTLAND COUNTY

SHEET TITLE

SITE HANDBOOK

SHEET NUMBER

HB-1

5. Divert Upland Runoff

Purpose:

Diversion berms intercept runoff from above the construction site and direct it around the disturbed area. This prevents "clean" water from becoming muddied with soil from the construction site.

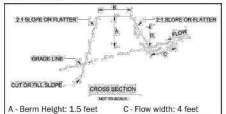
Requirements:

If stormwater runs onto your site from upslope areas and your site meets the following two conditions, you must install a diversion berm before disturbing any soil.

1. You plan to have one or more acres of soil exposed at any one time (excluding roads).
2. Average slope of the disturbed area is 20% or steeper.*

Berms and ditches divert clean upland runoff around construction sites and reduce erosion and sedimentation problems. Stabilize berms and ditches after construction.

How to install:



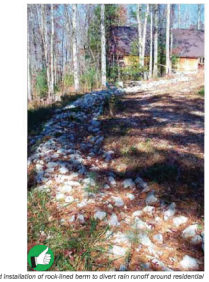
A - Berm Height: 1.5 feet
B - Berm Width: 2 feet
Side slopes: 2:1 or flatter *
C - Flow width: 4 feet
D - Flow depth: 8 inches

1. Compact the berm with a shovel or earth-moving equipment.
2. Seed and mulch berm or cover with erosion control matting immediately after installation.
3. Stabilize the flow channel with seed and straw mulch or erosion control matting. Line the channel with 4 inch stone if the channel slope is greater than 20%*.
4. Ensure the berm drains to an outlet stabilized with riprap. Ensure that there is no erosion at the outlet.
5. The diversion berm shall remain in place until the disturbed areas are completely stabilized.

* See page 39 for slope calculations.

Good construction, seeding, and stabilization of diversion berm. Note that diversion ditch is lined with grass on flatter part of slope, and with rock on steeper part.

Well built vegetated berm diverting runoff. Diversion berms and ditches should be seeded after construction. Use matting if slopes are steep.



Good installation of rock-lined berm to divert rain runoff around residential consruction site on steep slope near a river. Diversion ditches can be lined with grass if channel slopes are 5% or less, and with 4 inch stone if they are steeper.

6. Slow Down Channelized Runoff

Purpose:

Stone check dams reduce erosion in drainage channels by slowing down the stormwater flow.

Requirements:

If there is a concentrated flow (e.g. in a ditch or channel) of stormwater on your site, then you must install stone check dams. Hay bales must not be used as check dams.

How to Install:

Height: No greater than 2 feet. Center of dam should be 9 inches lower than the side elevation
Side slopes: 2:1 or flatter (see p.39 for slope calculation)
Stone size: Use a mixture of 2 to 9 inch stone
Width: Dams should span the width of the channel and extend up the sides of the banks
Spacing: Space the dams so that the bottom (toe) of the upstream dam is at the elevation of the top (crest) of the downstream dam. This spacing is equal to the height of the check dam divided by the channel slope.

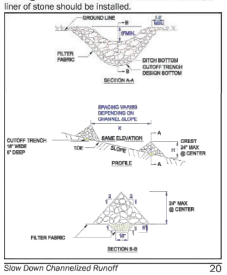
Spacing (in feet) = Height of check dam (in feet) / Slope in channel (ft/ft)

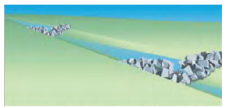
Maintenance:

Remove sediment accumulated behind the dam

as needed to allow channel to drain through the stone check dam and prevent large flows from carrying sediment over the dam.

If significant erosion occurs between check dams, a liner of stone should be installed.





Rock check dams must be installed before excavation or fill activities begin. See "How to install" for spacing directions.

Good installation of temporary rock check dams. The check dams should extend up the sides of the banks. Middle section should be lower than the sides. Clean out sediment as it accumulates. Remove check dams after site and channel are stabilized with vegetation.

Hay bales must not be used as check dams due to their high failure rates.

7. Construct Permanent Controls

Purpose:

Permanent stormwater treatment practices are constructed to maintain water quality, ensure groundwater flows, and prevent downstream flooding. Practices include detention ponds and wetlands, infiltration basins, and stormwater filters.

Requirements:

If the total impervious* area on your site, or within the common plan of development, will be 1 or more acres, you must apply for a State Stormwater Discharge Permit and construct permanent stormwater treatment practices on your site. These practices must be installed before the construction of any impervious surfaces.

How to comply:

Contact the Vermont Stormwater Program and follow the requirements in the Vermont Stormwater Management Manual.

The Stormwater Management Manual is available at: dec.vermont.gov/watershed/stormwater

*An impervious suface is a manmade surface, including, but not limited to, paved and unpaved roads, parking areas, roofs, driveways, and walkways, from which precipitation runs off rather than infiltrates.

This wet pond is designed to treat stormwater runoff, recharge groundwater, regulate the flow of water into nearby streams, and prevent downstream flooding.

Install all permanent stormwater treatment practices before constructing any impervious surfaces on site. This stormwater wetland treats stormwater runoff from the adjacent parking lot.

8. Stabilize Exposed Soil

Purpose:

Seeding and mulching, applying erosion control matting, and hydroseeding are all methods to stabilize exposed soil. Mulches and matting protect the soil surface while grass is establishing.

Requirements:

All areas of disturbance must have temporary or permanent stabilization within 7, 14, or 21 days of initial disturbance, as stated in the project authorization. After this time, any disturbance in the area must be stabilized at the end of each work day.

The following exceptions apply:

- Stabilization is not required if earthwork is to continue in the area within the next 24 hours and there is no precipitation forecast for the next 24 hours.
- Stabilization is not required if the work is occurring in a self-contained excavation (i.e. no outlet) with a depth of 2 feet or greater (e.g. house foundation excavation, utility trenches).

All areas of disturbance must have permanent stabilization within 48 hours of reaching final grade (See page 33).

How to comply:

Prepare bare soil for seeding by grading the top 3 to 6 inches of soil and removing any large rocks or debris.

Seeding Rates for Temporary Stabilization

April 15 - Sept. 15 – Ryegrass (annual or perennial: 20 lbs/acre)
Sept. 15 - April 15 – Winter rye: 120 lbs/acre

Seeding Rates for Final Stabilization:

Choose from:	Variety	lbs./acre	lbs./1000 sq.ft.
Birdsfoot trefoil	Empire/Pardee	5[1]	0.10
or			
Common white clover	Common	8	0.20
plus			
Tall Fescue	KY-31/Rebel	10	0.25
plus			
Redtop	Common	2	0.05
or			
Ryegrass (perennial)	Pennfine/Linn	5	0.10

[1] Mix 2.5 each of Empire and Pardee OR 2.5 lbs. of Birdsfoot and 2.5 lbs. white clover per acre.

Mulching Rates

April 15 - Sept.15 – Hay or Straw: 1 inch deep (1.2 bales/1000 s.f.)
Sept.15 - April 15 – Hay or Straw: 2 in. deep (2-4 bales/1000 s.f.)

Erosion Control Matting

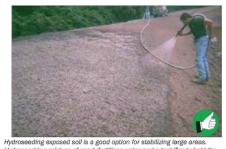
As per manufacturer's instructions

Hydroseed

As per manufacturer's instructions

Excellent stabilization of large slopes to limit the area of disturbance. Make sure to install erosion control matting within 48 hours of grading to ensure good contact between soil and mat.

Good tracking up and down slope. Tracking slows down runoff and promotes infiltration. More mulch is needed.



Hydroseeding exposed soil is a good option for stabilizing large areas. Hydroseed is a mixture of seed, fertilizer, water and a tackifier to hold the seed in place before it germinates.

Excellent application of hay mulch. Good mulch cover and sediment barrier around soil stockpile.

9. Winter Stabilization

Purpose:

Managing construction sites to minimize erosion and prevent sediment loading of waters is a year-round challenge. In Vermont, this challenge becomes even greater during the late fall, winter, and early spring months.

'Winter construction' as discussed here, describes the period between October 15 and April 15, when erosion prevention and sediment control is significantly more difficult.

Rains in late fall, thaws throughout the winter, and spring melt and rains can produce significant flows over frozen and saturated ground, greatly increasing the potential for erosion.

Requirements for Winter Shutdown:

For those projects that will complete earth disturbance activities prior to the winter period (October 15), the following requirements must be adhered to:

1. For areas to be stabilized by vegetation, seeding shall be completed no later than September 15 to ensure adequate growth and cover.
2. If seeding is not completed by September 15, additional non-vegetative protection must be used to

Stabilization and seeding of slopes before winter will reduce or eliminate erosion in the spring. The grass on this slope is holding the soil in place and promoting infiltration of the melting snow.

stabilize the site for the winter period. This includes use of Erosion Control Matting or netting of a heavy mulch layer. Seeding with winter rye is recommended to allow for early germination during wet spring conditions.

3. Where mulch is specified, apply roughly 2 inches with an 80-90% cover. Mulch should be tracked in or stabilized with netting in open areas vulnerable to wind.

Requirements for Winter Construction

If construction activities involving earth disturbance continue past October 15 or begin before April 15, the following requirements must be adhered to:

1. Enlarged access points, stabilized to provide for snow stockpiling.
2. Limits of disturbance moved or replaced to reflect boundary of winter work.
3. A snow management plan prepared with adequate storage and control of meltwater, requiring cleared snow to be stored down slope of all areas of disturbance and out of stormwater treatment structures.
4. A minimum 25 foot buffer shall be maintained from perimeter controls such as silt fence.
5. In areas of disturbance that drain to a water body within 100 feet, two rows of silt fence must be installed along the contour.
6. Drainage structures must be kept open and free of snow and ice dams.

7. Silt fence and other practices requiring earth disturbance must be installed ahead of frozen ground.
8. Mulch used for temporary stabilization must be applied at double the standard rate, or a minimum of 3 inches with an 80-90% cover.
9. To ensure cover of disturbed soil in advance of a melt event, areas of disturbed soil must be stabilized at the end of each work day, with the following exceptions:
   - If no precipitation within 24 hours is forecast and work will resume in the same disturbed area within 24 hours, daily stabilization is not necessary.
   - Disturbed areas that collect and retain runoff, such as house foundations or open utility trenches.
10. Prior to stabilization, snow or ice must be removed to less than 1 inch thickness.
11. Use stone to stabilize areas such as the perimeter of buildings under construction or where construction vehicle traffic is anticipated. Stone paths should be 10–20 feet wide to accommodate vehicular traffic.

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VT-VT-0120A

WALLINGFORD

100 SEWARD HILL ROAD
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05742
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SHEET TITLE

SITE HANDBOOK

SHEET NUMBER

HB-2

10. Stabilize Soil at Final Grade

Purpose:

Stabilizing the site with seed and mulch or erosion control matting when it reaches final grade is the best way to prevent erosion while construction continues.

Requirements:

Within 48 hours of final grading, the exposed soil must be seeded and mulched or covered with erosion control matting.

Lawn is fully established before construction is completed at this home site.

How to comply:

Bring the site or sections of the site to final grade as soon as possible after construction is completed. This will reduce the need for additional sediment and erosion control measures and will reduce the total disturbed area.

For seeding and mulching rates, follow the specifications under Rule 8, "Stabilizing Exposed Soil".

Within 48 hours of final grading, erosion control matting and mulch have been applied.

11. Dewatering Activities

Purpose:

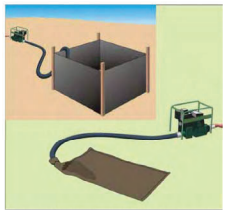
Treat water pumped from dewatering activities so that it is clear when leaving the construction site.

Requirements:

Water from dewatering activities that flows off of the construction site must be clear. Water must not be pumped into storm sewers, lakes, or wetlands unless the water is clear.

How to comply:

Using sock filters or sediment filter bags on dewatering discharge hoses or pipes, discharge water into silt fence enclosures installed in vegetated areas away from waterways. Remove accumulated sediment after the water has dispersed and stabilize the area with seed and mulch.



Water is pumped from the construction site into a silt fence enclosure on a vegetated area or into a sock filter away from waterways.

12. Inspect Your Site

Purpose:

Perform site inspections to ensure that all sediment and erosion control practices are functioning properly. Regular inspections and maintenance of practices will help to reduce costs and protect water quality.

Requirements:

Inspect the site at least once every 7 days and after every rainfall or snowmelt that results in a discharge from the site. Perform maintenance to ensure that practices are functioning according to the specifications outlined in this handbook.

In the event of a noticeable sediment discharge from the construction site, you must take immediate action to inspect and maintain existing erosion prevention and sediment control practices. Any visibly discolored stormwater runoff to waters of the State must be reported.

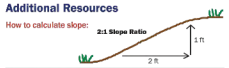
Forms for reporting discharges are available at: dec.vermont.gov/watershed/stormwater

Example Site Inspection Form	Y	N
1. Boundary Limits		
• Site boundary markers are up and visible		
• Disturbance is only occurring within marked boundaries		
2. Limit Disturbance Area		
• Only the acreage listed on the *Authorization to Discharge* is disturbed at one time		
3. Construction Entrance		
• Off-site tracking of mud prevented		

Example Site Inspection Form	Y	N
4. Sediment Barriers		
• Silt fence is trenched into ground with no gaps		
• Accumulated sediment is less than ½ way up the fence		
5. Diversion Berms		
• All upland stormwater is diverted around the site		
6. Check Dams		
• Check dams are in place and stretch the width of the channel		
• Channels are stable with no erosion		
8. Stabilize Exposed Soil		
• Seed and mulch, and/or erosion control blankets are being used in accordance with the permit requirements		
9. Winter Stabilization		
• After September 15, all disturbed areas have been seeded and mulched to 3 inches deep, or covered in erosion control blankets.		
• For ongoing construction, exposed soil is mulched prior to forecasted rain events.		
10. Stabilize Soil at Final Grade		
• Within 48 hours of establishing final grade, soil is seeded and mulched or covered in erosion control matting.		
Water flowing off the site		
• Water is free of sediment (water is clear)		

Section 3
Additional Resources

How to calculate slope:



Approximate Slope Conversions			
Steepness	**Percent**	**Slope ratio (ft/ft)**	**Degrees**
Very steep	100%	1:1	45°
	50%	2:1	27°
Moderate	33%	3:1	18°
	25%	4:1	14°
	10%	10:1	6°
Slight	5%	20:1	3°

How to estimate disturbance area:

1 acre = 43,560 square feet = 4,840 square yards

Area in acres (width in feet x length in feet)						
(w) x (l)	100	150	200	300	400	500
100	0.2	0.3	0.5	0.7	0.9	1.1
150	0.3	0.5	0.7	1.0	1.4	1.7
200	0.5	0.7	0.9	1.4	1.8	2.3
300	0.7	1.0	1.4	2.1	2.8	3.4
400	0.9	1.4	1.8	2.8	3.7	4.6
500	1.1	1.7	2.3	3.4	4.6	5.7

Acknowledgements

Design details and standards for sediment and erosion control practices have been adapted from the New York State Standards and Specifications for Erosion and Sediment Control. August 2005.

Photographs and illustrations provided by Tetra Tech, Kim Greenwood, Don Lake, Jim Pease, and Hydrograss Technologies.

This document has been adapted from the *Kentucky Erosion Prevention and Sediment Control Field Guide* produced by the Tetra Tech Water Resources Division in Fairfax VA for the Kentucky Division of Conservation and Division of Water. Inquiries regarding this publication should be directed to Barry Tonning, Tetra Tech, 1080 Eaton Place, Suite 340, Fairfax VA 22030 (703.385.6000).

Printing of this manual is sponsored by the Winooski Natural Resources Conservation District through a grant by the U.S. Environmental Protection Agency.

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HB-3

EXHIBIT C
VERTEX TOWERS
ADVANCE NOTICE - WALLINGFORD

TOWAIR Determination Results

*** NOTICE ***

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

DETERMINATION Results

Structure does not require registration. There are no airports within 8 kilometers (5 miles) of the coordinates you provided.

Your Specifications

NAD83 Coordinates	
Latitude	43-27-05.9 north
Longitude	072-53-18.1 west
Measurements (Meters)	
Overall Structure Height (AGL)	42.7
Support Structure Height (AGL)	42.7
Site Elevation (AMSL)	490.7
Structure Type	
LTOWER - Lattice Tower	

Tower Construction Notifications
Notify Tribes and Historic Preservation Officers of your plans to build a tower.

CLOSE WINDOW

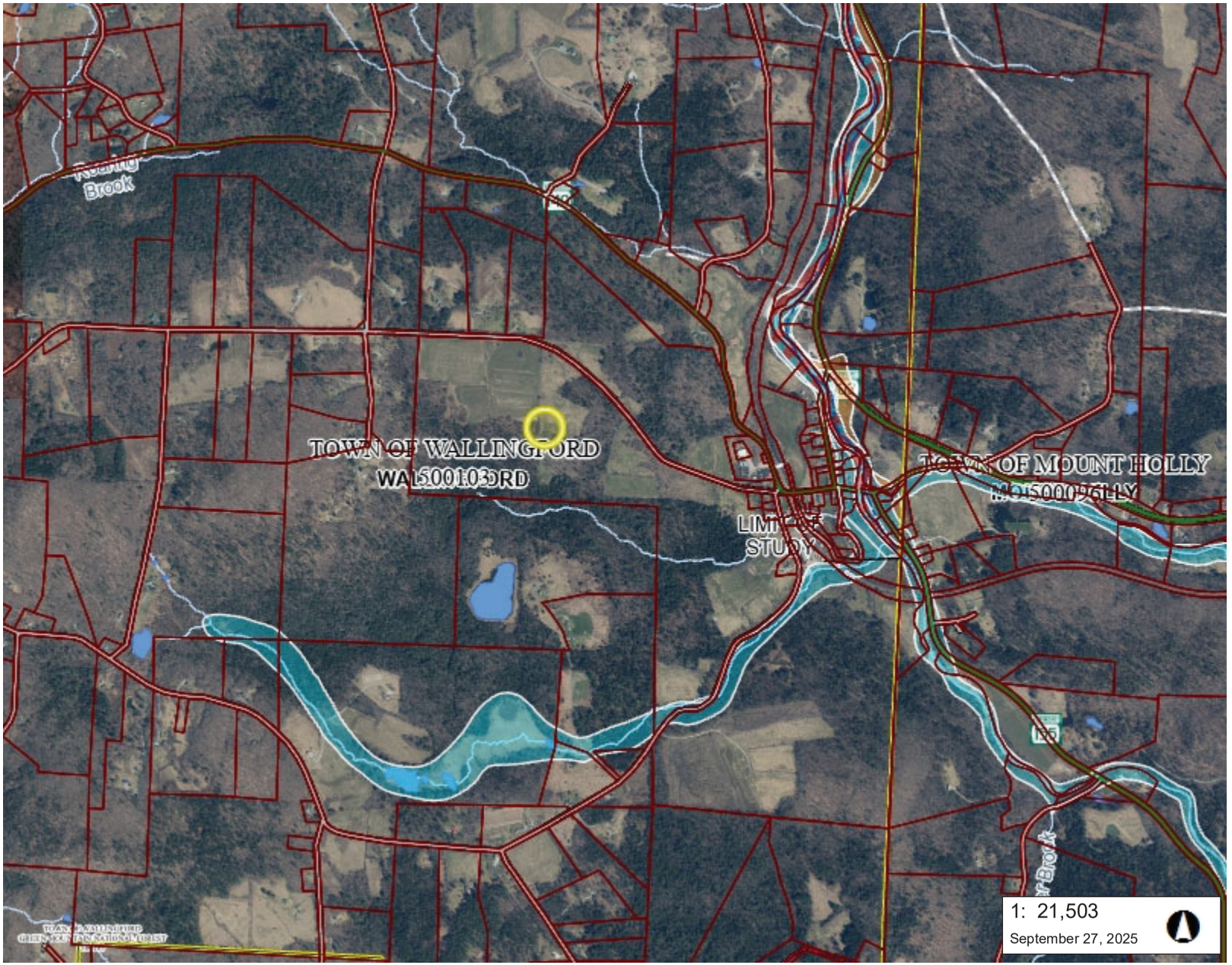
VERMONT

Natural Resources Atlas

Vermont Agency of Natural Resources

EXHIBIT D
VERTEX TOWERS
ADVANCE NOTICE - WALLINGFORD

vermont.gov



LEGEND

- LOMRs
- Political Jurisdictions
- Profile Baselines
- Levees
- Transect Baselines
- Flood Hazard Boundaries
  - Limit Lines
  - SFHA / Flood Zone Boundary
  - Flowage Easement Boundary
- Flood Hazard Zones
  - 1% Annual Chance Flood Hazard
  - Regulatory Floodway
  - Special Floodway
  - Area of Undetermined Flood Hazar
  - 0.2% Annual Chance Flood Hazard
  - Future Conditions 1% Annual Chan
  - Area with Reduced Risk Due to Lev
  - Area with Risk Due to Levee
- Pending FIRM Panel Index
- Pending FIRM Panels
- Pending Flood Hazard Bounda
  - Limit Lines
  - SFHA / Flood Zone Boundary
  - Flowage Easement Boundary
- Pending Flood Hazard Zones
  - 1% Annual Chance Flood Hazard
  - Regulatory Floodway

NOTES

Map created using ANR's Natural Resources Atlas

1,092.0 0 546.00 1,092.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 1792 Ft. 1cm = 215 Meters

THIS MAP IS NOT TO BE USED FOR NAVIGATION

DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.