



## **Heritage Commission**

**Wednesday, March 9, 2022, 4:00 PM**

2<sup>nd</sup> Floor Conference Room, City Hall  
3 Washington St, Keene, NH 03431

## **AGENDA**

- I. **Call to Order – Roll Call**
- II. **Minutes of Previous Meeting – February 9, 2022**
- III. **Discussion on Neighborhood Heritage Project**
- IV. **New CLG Grant Discussion**
- V. **Section 106 Invitation**
- VI. **Next Meeting – May 11, 2022**
- VII. **Adjourn**

1 City of Keene  
2 New Hampshire

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5 HERITAGE COMMISSION  
6 MEETING MINUTES  
7

Wednesday, February 9, 2022

4:30 PM

2nd Floor Conference Room,  
City Hall

Members Present:

Cauley Powell, Chair  
Susan DeGidio, Vice Chair (Zoom)  
Councilor Gladys Johnsen  
Rose Carey  
Louise Zerba, Alternate

Staff Present:

Mari Brunner, Senior Planner

Members Not Present:

Marilyn Huston  
Brian Lee

8  
9  
10 **1) Call to Order**

11  
12 Chair Powell called the meeting to order at 4:16 PM.

13  
14 **2) Elections**

15  
16 Chair Powell announced the first order of business to be elections for Chair and Vice Chair. Ms.  
17 Carey moved that Ms. Powell remain on as Chair and nominated Ms. DeGidio as Vice Chair.  
18 Ms. Zerba seconded the motion, which passed unanimously.

19  
20 **3) Minute of Previous Meeting**

21  
22 Ms. Zerba made a correction on line 55, when talking about the Italian neighborhood project she  
23 suggested using the term consultant rather than a contractor. Ms. Brunner added that the  
24 consultant's name is Ray Corson of Corson GIS Solutions. Ms. Carey made a motion to accept  
25 the minutes of November 10, 2021 as amended. Chair Powell seconded the motion, which  
26 passed unanimously.

27  
28 **4) Discussion on Neighborhood Heritage Project**

29  
30 Ms. Brunner referenced the packet describing the scope of work. She reviewed that the City  
31 selected Corson GIS Solutions as the consultant for the project and Mr. Corson has already  
32 begun work creating a web based tool. Ms. Brunner explained that there are two sides to the

33 project, a collection side and a story map side that will be public facing. Viewers will be able to  
34 go online and see an interactive map. Ms. Brunner showed screen shots of the collection side of  
35 the application on the computer screen. She explained that people can upload photos, audio and  
36 video to the platform. Ms. Zerba asked how they will ensure that appropriate content is being  
37 submitted. Ms. Brunner stated once the public uploads content it will then go into a holding  
38 space where someone from the back end will have to approve it. Ms. Brunner further explained  
39 that the story map side of the project will be created after the collection side, and showed an  
40 example of a story map on the Parks and Recreation Department page.

41

42 Chair Powell asked if Mr. Corson is looking for feedback from the commission. Ms. Brunner  
43 answered that it would be helpful for them to provide him with background information on the  
44 Italian neighborhood to populate the website. Additionally, Mr. Corson suggested having some  
45 stories already loaded when the story map goes live and Ms. Brunner suggested they start to  
46 collect stories now. She mentioned that Jim Sterling is excited to be interviewed.

47

48 Ms. Brunner suggested they begin to think about ways to promote the project when it goes live,  
49 stating that the timeline to have the collection side done and the story map ready to go live is by  
50 the end of March.

51

52 Ms. Zerba asked if they have to present to City Council first before reaching out to schools.

53

54 Ms. DeGidio asked what the process is if they have someone in mind to interview.

55

56 Ms. Brunner stated interviewees can either go onto the website and enter their information  
57 themselves, or the interview can be conducted face to face and either be recorded and uploaded  
58 or written out and submitted by a member of the commission. She added that it will depend on  
59 individual preference.

60

61 Ms. Brunner reminded everyone that one requirement of the grant is an in-kind match, which  
62 they put down 50 hours of volunteer time for. Chair Powell stated Ms. Huston had done some  
63 time already by going to the Historical Society and pulling up articles. Ms. Brunner encouraged  
64 them to track their in-kind hours, noting that it will be important to record for grant purposes.

65

66 Ms. Carey volunteered to take photos of the Italian neighborhood.

67

68 Ms. Zerba suggested they coordinate the contacts they plan to interview to avoid contacting them  
69 more than once. Chair Powell suggested they create a working group. Ms. Carey stated that she'd  
70 prefer to be given a contact to interview and take it from there. Ms. Brunner stated staff can help  
71 with coordinating as well.

72

73 Chair Powell stated, when the season changes, it may be nice to walk around the neighborhood  
74 and knock on doors to gather information. Ms. Carey suggested that they could also distribute  
75 pamphlets.

76

77 Chair Powell suggested they pull up the contacts mentioned from previous meetings and start  
78 there. Ms. Carey mentioned possibly doing storyboards in City Hall.

79

80 Chair Powell had the idea of obtaining a current photo of the interview contacts as well as a past  
81 photo. Discussion ensued about taking two hour time slots at the food co-op or library to  
82 interview/hand out pamphlets. Chair Powell also brought up the Italian Club in Keene and  
83 Councilor Johnsen stated she will reach out to them. Chair Powell suggested they try and  
84 schedule a meeting with the leaders of the Italian Club and then go from there, and there was  
85 agreement from the commission.

86

87 Discussion ensued with regards to project timeline and involving schools. Ms. Brunner stated the  
88 Division of Historical Resources (DHR) wants them to try and wrap up the project by the end of  
89 July or early August. She stated that would mean they'd need to reach out to schools this spring  
90 and suggested they start with career centers or the SAU office. She added that getting the school  
91 system involved is only a suggestion from DHR. Chair Powell suggested that even if they aren't  
92 successful getting the school system involved, they should at least let the schools know that the  
93 tool is available if they want to utilize it in the future for history projects. Ms. Zerba stated she  
94 would spearhead reaching out to schools and obtaining permission to contact principals. Ms.  
95 Brunner added Saint Joseph's School to the list for being contacted, mentioning that they are not  
96 in SAU29 but they are close to the neighborhood.

97

98 Short discussion ensued with regards to recording the interviews. Suggestions were to use library  
99 resources or personal cell phones. Chair Powell stated she will build a guide on how to record  
100 interviews as well as questions to ask, similar to a script. She suggested a good goal would be to  
101 have the guide done by the next meeting to review and then they can start interviewing.

102

103 Ms. Zerba suggested they try to get on the Dan Mitchell radio show since it has a lot of listeners.  
104 Ms. Carey agreed that would be an easy way to get the word out. She added that she will put  
105 articles in the Monadnock Shopper as well. Ms. Zerba stated they might want to include the  
106 interview questions in the Shopper article and Chair Powell suggested including the link for the  
107 live website as well. Ms. Brunner reminded them that staff can help with materials needed for  
108 interviewing.

109

#### 110 **5) New CLG Grant Discussion**

111

112 Chair Powell stated the new timeline for the grants was included in the packet. She explained  
113 that the ongoing Italian Neighborhood grant is running through September but they are trying to  
114 shorten the cycle so the 2022 grant will be awarded and administered with an overlap period. Ms.  
115 Brunner stated March 1<sup>st</sup> at 8:00am is the deadline for letters of intent, March 7-18th DHR staff  
116 will schedule meetings with applicants, March 21st they will send invitations, May 16<sup>th</sup> at  
117 8:00am applications are to be submitted and by June 2022 grants will be awarded and projects  
118 can begin once paperwork is complete.

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Chair Powell stated if they do receive the grant they could be working on both projects simultaneously and suggested they keep that in mind for in-kind hours.

Chair Powell reminded the committee that the LOI is going to include 3 different project proposals:

1. Mill building survey, similar to past survey projects.
2. Black Heritage Trail/Recovering Black Voices project in partnership with the Historical Society. Here they'd support the project already started and maybe bring in an expert and develop presentation elements.
3. Native American site by the middle school. This would entail hosting information sessions or bringing in an expert, organizing an event, raising awareness and increasing signage.

Ms. Carey asked if the mill building survey would include type of industry. Chair Powell stated it will be an architectural survey plus historical background, similar to the Urban Barns project they completed in the past. Ms. Carey suggested 'Early Industry,' from around the 1800's to 1950's, would be better terminology. There was general agreement.

Ms. Carey suggested highlighting artifacts and automobiles. Ms. Brunner asked what they would choose if they end up having to focus on a more specific geographic location. Ms. Carey suggested right downtown in that immediate neighborhood. Chair Powell stated they could define it by locations that had a minimum number of employees working in the industry. She added that she did touch base with the Historical Society about the project and they said they have a lot of information they will share.

Ms. Brunner requested a small write-up for each project. Ms. Carey stated in the past she used to sit with staff and brainstorm to help write the LOI and she, Ms. Brunner and Chair Powell planned to sit down and do that in the upcoming week, as the deadline is March 1<sup>st</sup>.

Chair Powell stated she connected with Jennifer Carroll of the Historical Society who informed her that they've been running a volunteer project for about a year now. The volunteers cover the county and look through records and flag entries that lead to African American families or individuals for census data. Chair Powell stated they only have 12 volunteers in total so they could use more if anyone is interested. The thought is that they use a CLG grant to support the ongoing efforts with some of their own volunteered time, and also bring in an expert to do some more nuanced searching. She went on to state that the project may take more than a year and the end goal is site recognition and to raise awareness. She added that the Historical Society in partnership with Black Heritage Trail of NH is looking to create a website with searchable records.

162     **6) CLG Mini Grant Opportunities**

163  
164 Ms. Brunner stated, for the National Alliance of Preservation Commission membership  
165 reimbursement, all they have to do is make the request. The next mini grant opportunity was for  
166 camp commission assistance and mentoring program, which she stated will take a little more  
167 thought and will be a quick turnaround as the deadline is Monday. The last opportunity is the  
168 National Alliance Preservation Commission forum held in Cincinnati Ohio. Ms. Brunner stated  
169 it's a travel grant to send people to the forum if anyone on the committee wants to go. She added  
170 that staff cannot attend this year but in the future they may be interested in going.

171  
172 Chair Powell suggested they should definitely do the grant for the membership reimbursement.  
173 She went on to state that the second grant sounds like it requires significant involvement and  
174 suggested they hold off on that, but keep it in mind for the future as it's a great opportunity. The  
175 committee decided to hold off on the travel grant for the time being.

176  
177     **7) Next Meeting**

178  
179 Chair Powell stated the next meeting is March 9, 2022.

180  
181     **8) Adjournment**

182  
183 There being no further business, Chair Powell adjourned the meeting at 5:07 PM.

184  
185 Respectfully submitted by,  
186 Nicole Cullinane, Minute Taker

187  
188 Reviewed and edited by,  
189 Mari Brunner, Senior Planner

190



February 7, 2022

Ms. Tara Kessler  
City of Keene Planning Department  
3 Washington Street  
Keene, NH 03431

**RE: Section 106 Invitation per the National Historic Preservation Act and the National Environmental Policy Act to the Certified Local Government:**  
4KN0346  
65 Appian Way  
Keene, NH 03431

Dear Ms. Kessler,

T-Mobile is proposing a telecommunications project at the above address. Please consider this correspondence an invitation to comment on the possible effects the proposed project may have on sites or structures of historic significance. *This correspondence is not an attempt to satisfy the local zoning requirements.*

Enclosed for your review is a copy of a USGS 7.5-Minute topographic map, property photographs, site sketch and a table of information regarding the proposed project. As part of our research, RESCOM will submit the proposed project for Section 106 review per the National Historic Preservation Act and the National Environmental Policy Act to the State Historic Preservation Office. In addition, a public notification was placed in the local newspaper to solicit "questions, comments, and correspondences" from the public regarding the proposed project.

Should you require further information, please do not hesitate to contact our office or contact me directly at (260) 385-6999. Thank you for your time and attention to this matter.

Sincerely,  
**RESCOM Environmental Corp**

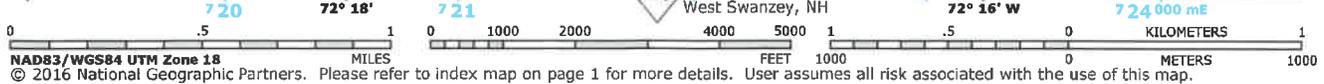
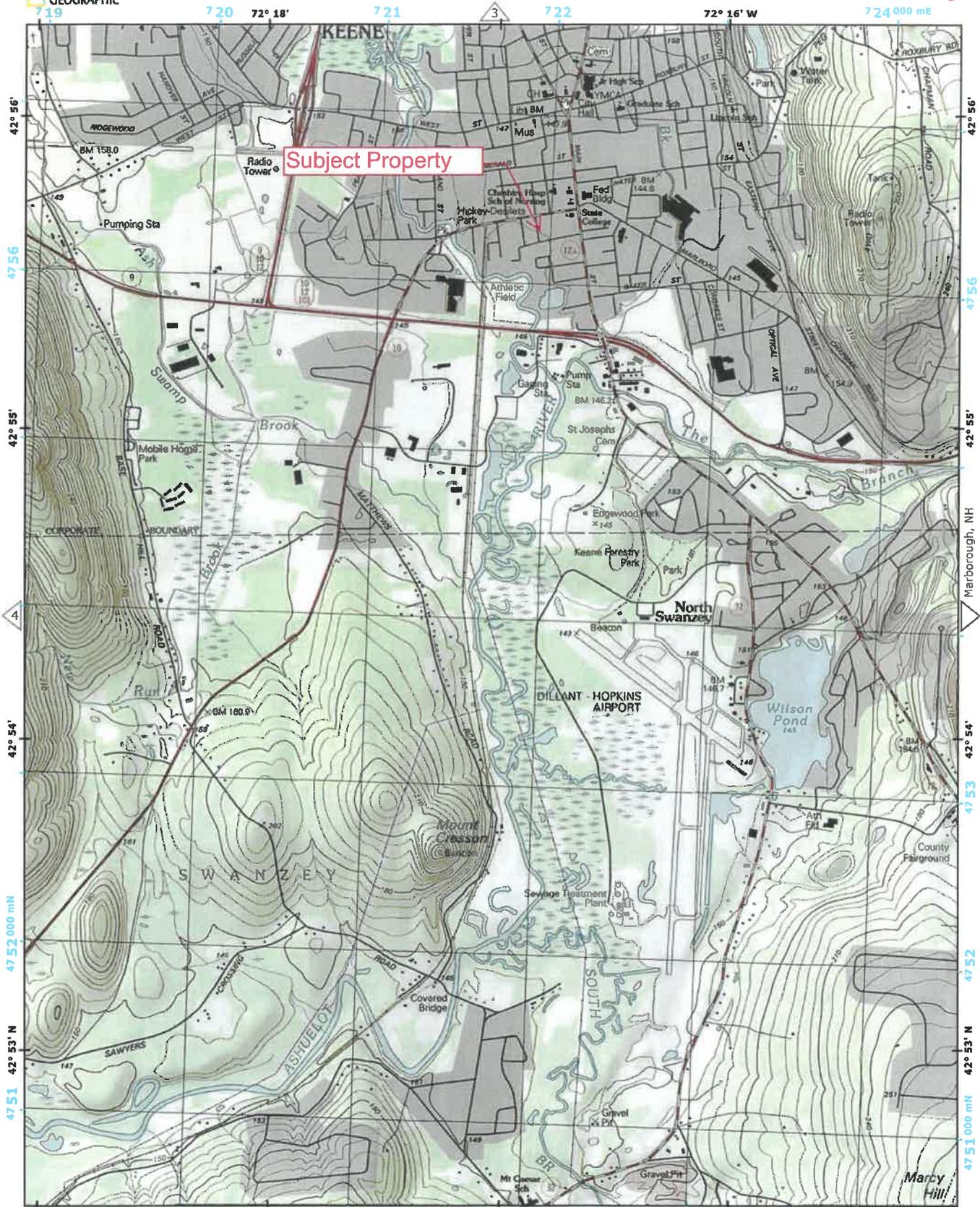
A handwritten signature in black ink, appearing to read "Jamie Cochran-Smith". The signature is fluid and cursive.

Jamie Cochran-Smith  
Archaeologist/Historian  
[jamie.cochran-smith@rescom.org](mailto:jamie.cochran-smith@rescom.org)

Enclosure

cc: RESCOM file 21120190





**SUBJECT PROPERTY PHOTOGRAPHS**  
**4KN0346**



Photograph 1 – Subject property, facing north.



Photograph 2 – Subject property, facing northeast.

**SUBJECT PROPERTY PHOTOGRAPHS**  
**4KN0346**



Photograph 3 – Subject property, facing south.



Photograph 4 – Subject property, facing southeast.

**SUBJECT PROPERTY PHOTOGRAPHS**  
**4KN0346**



Photograph 5 – Adjacent property, facing north.



Photograph 6 – Adjacent property, facing northeast.

**SUBJECT PROPERTY PHOTOGRAPHS**  
**4KN0346**



**Photograph 7 – Adjacent property, facing east.**

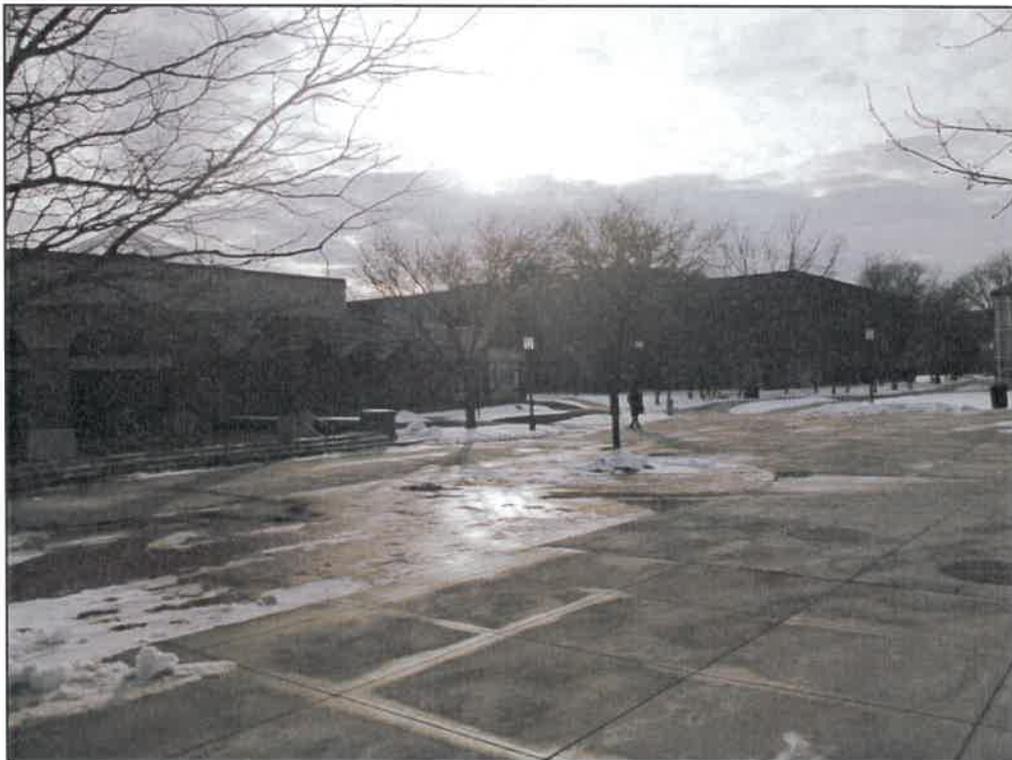


**Photograph 8 – Adjacent property, facing southeast.**

**SUBJECT PROPERTY PHOTOGRAPHS**  
**4KN0346**



Photograph 9 – Adjacent property, facing south.



Photograph 10 – Adjacent property, facing southwest.

**SUBJECT PROPERTY PHOTOGRAPHS**  
**4KN0346**



Photograph 11 – Adjacent property, facing west.



Photograph 12 – Adjacent property, facing northwest.



T-MOBILE NORTHEAST LLC

SITE NUMBER:  
**4KN0346B**

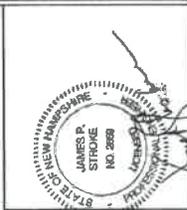
SITE NAME:  
**4KN0346A-University Systems of NH-RT-KEENE**

SITE ADDRESS:  
**65 APPIAN WAY  
KEENE, NH 03431**

**T-Mobile**  
T-MOBILE NORTHEAST LLC  
15 COMMERCE WAY  
NORTON, MA 02786

**smartlink**  
SMARTLINK, LLC  
875 STATE ROAD  
BLDG #5 SUITE 102  
NORTH BILLERICA, MA 01862

**VRG**  
VERTICAL RESOURCES GRP.  
23 MIDSTATE DR., 210  
NORTON, MA 02786  
TEL: 508-861-9590  
FAX: 508-519-8539



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**SUBMITTALS**

NO	DATE	DESCRIPTION	BY
1	10/29/21	ISSUED FOR REVIEW	MM
2	11/04/21	FOR PERMITTING	MM
3	11/09/21	GENERAL REVISIONS	MM
4	11/22/21	ISSUED FOR REVIEW	MM

SIT NUMBER:  
**4KN0346B**  
SITE NAME:  
**University Systems of  
NH-RT-KEENE**  
SITE ADDRESS:  
**65 APPIAN WAY  
KEENE, NH 03431**

SHEET TITLE:  
**TITLE SHEET**  
SHEET NUMBER:  
**01**

**DRAWING INDEX**

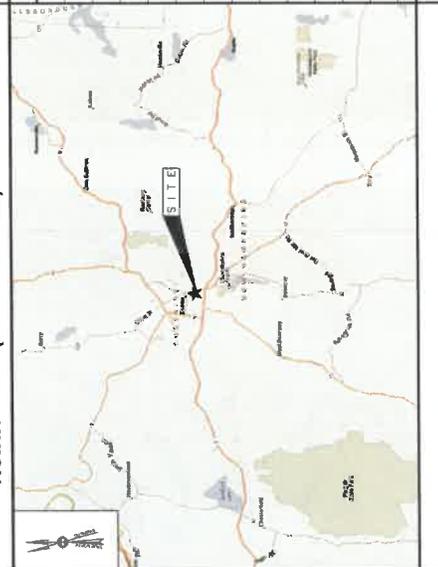
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01	TITLE SHEET	TITLE SHEET
02	GENERAL NOTES	GENERAL NOTES
03	SITE PLAN & ELEVATION	SITE PLAN & ELEVATION
04	ANTENNA & CABLE DETAILS	ANTENNA & CABLE DETAILS
05	DETAILS I	DETAILS I
05.1	DETAILS II	DETAILS II
06	GENERATOR DETAILS	GENERATOR DETAILS
07	GROUNDING & RF PLUMBING DIAGRAM	GROUNDING & RF PLUMBING DIAGRAM
08	POWER SINGLE LINE DIAGRAM	POWER SINGLE LINE DIAGRAM
09	GROUNDING & DETAILS I	GROUNDING & DETAILS I
10	FENCE DETAILS I	FENCE DETAILS I

**APPROVALS**

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CONSTRUCTION: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SITE ACQUISITION: \_\_\_\_\_ DATE: \_\_\_\_\_  
 LEASING/ \_\_\_\_\_ DATE: \_\_\_\_\_  
 R.F. ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_  
 LANDLORD/ \_\_\_\_\_ DATE: \_\_\_\_\_  
 PROPERTY OWNER: \_\_\_\_\_

**VICINITY MAP (NOT TO SCALE)**



**DIRECTIONS:**  
 FROM NORTON, MA PROCEED WEST ON I-495, CONTINUE ON I-495 WEST TOWARDS I-93, CONTINUE ON I-93 NORTH TO I-93A, CONTINUE ON I-93A WEST TO I-93 WEST, CONTINUE ON I-93 WEST TO I-93 WEST, TAKE RT-2 WEST EXIT 24B TOWARDS RT-140 WEST, CONTINUE ON RT-140 WEST, CONTINUE ON RT-12 WEST, ENTER INTO NH, STAY ON RT-12 WEST, ONCE IN KEENE, NH TURN LEFT ONTO APPIAN WAY, ARGUE AT #65.

AT LEAST 72 HOURS PRIOR TO DIGGING, THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT 1-888-DIG-SAFE

**SITE INFORMATION**

**PROPERTY OWNER:** UNIVERSITY SYSTEMS OF NH  
228 MAIN STREET  
KEENE, NH 03431

**LOCAL POWER COMPANY:** INECC  
1-800-898-2007

**LOCAL TELCO COMPANY:** FIBERLINK  
1-800-461-4883

**APPLICANT:** T-MOBILE NORTHEAST LLC  
15 COMMERCE WAY  
NORTON, MA 02786  
P: (860) 848-1116

**SITE ACQUISITION REPRESENTATIVE:** SMARTLINK, LLC  
875 STATE ROAD  
BLDG #5 SUITE 102  
NORTH BILLERICA, MA 01862

**ARCHITECT/ENGINEER:** VERTICAL RESOURCES GROUP  
150 STATE STREET, 210  
AUBURN, MA 01501  
TEL: 508-861-9590  
FAX: 508-519-8539

**SITE NUMBER:** 4KN0346B  
**SITE NAME:** University Systems of NH RT-KEENE  
**SITE ADDRESS:** 65 APPIAN WAY KEENE, NH 03431  
**COUNTY:** CHESHIRE  
**ZONING:** HO  
**PARCEL ID:** 591-01-016  
**FAA Z-C COORDINATES:** N 42° 55' 37.4" W 72° 16' 48.8"  
**GROUND ELEV:** ±469'-0" ANSL  
**STRUCTURE TYPE:** CUYED TOWER  
**STRUCTURE HEIGHT:** 57'-3" ± AGL  
**ANTENNA RAD CENTER:** 60'-0" ± AGL  
51'-0" ± AGL

**GENERAL NOTES**

THIS IS AN UNMANNED TELECOMMUNICATION FACILITY AND NOT FOR HUMAN HABITATION:  
 -FACILITY HAS NO PLUMBING OR REFRIGERANTS.  
 -THIS FACILITY SHALL MEET OR EXCEED ALL FAA AND FCC REGULATOR REQUIREMENTS.  
 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.  
 DEVELOPMENT AND USE OF THIS SITE WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.  
 BUILDING CODE: NEW HAMPSHIRE STATE BUILDING CODE & IBC 2015  
 ELECTRICAL CODE: LATEST NATIONAL ELECTRICAL CODE  
 STRUCTURAL CODE: IBC/AIA-222-H OR LATEST EDITION









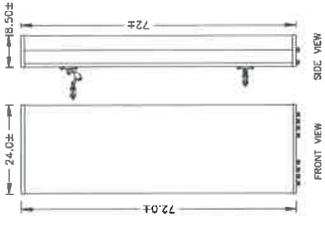
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NO	DATE	DESCRIPTION	BY
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2	11/01/21	ISSUED FOR REVIEW	MM

**SUBMITTALS**

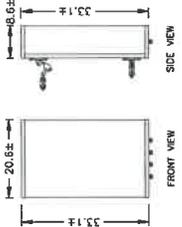
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**ANTENNA & CABLE DETAILS**  
SHEET NUMBER:  
**04**



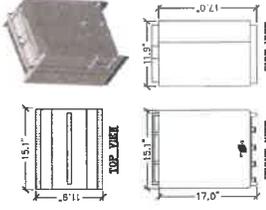
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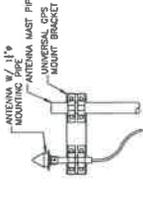
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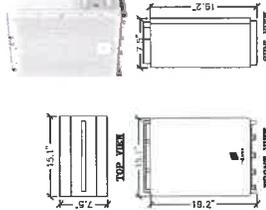
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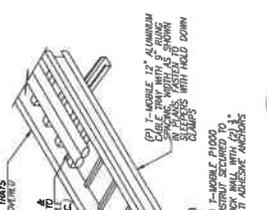
ANTENNA MOUNTING BRACKET  
UNIVERSAL GPS MOUNT BRACKET

**GPS ANTENNA MOUNTING**  
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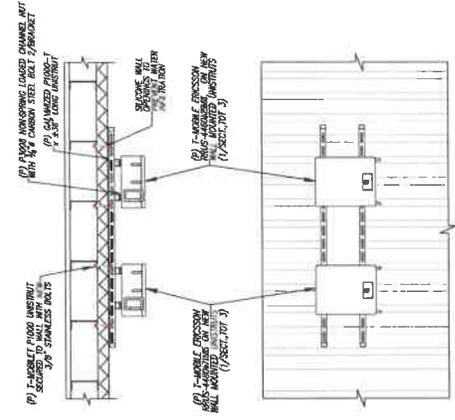


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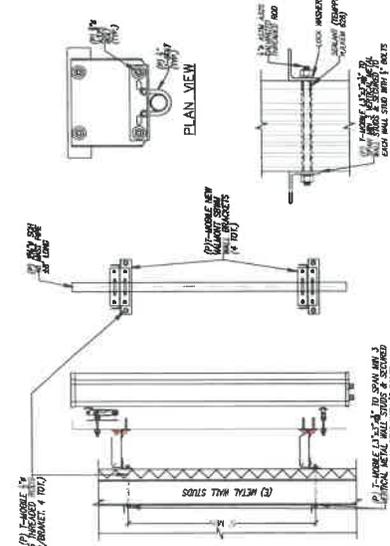
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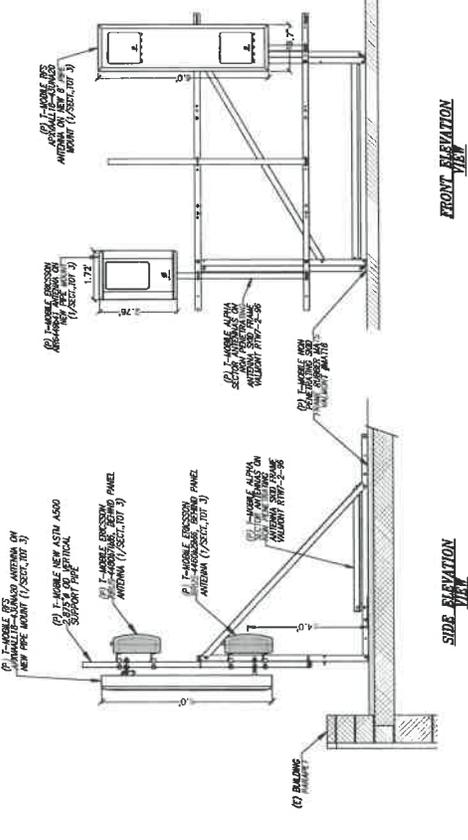
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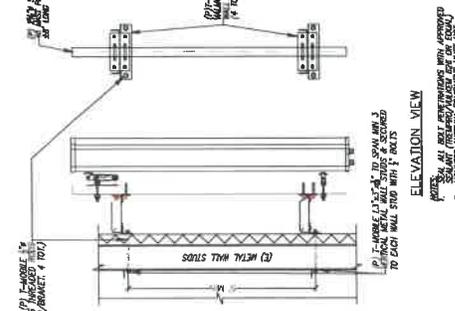
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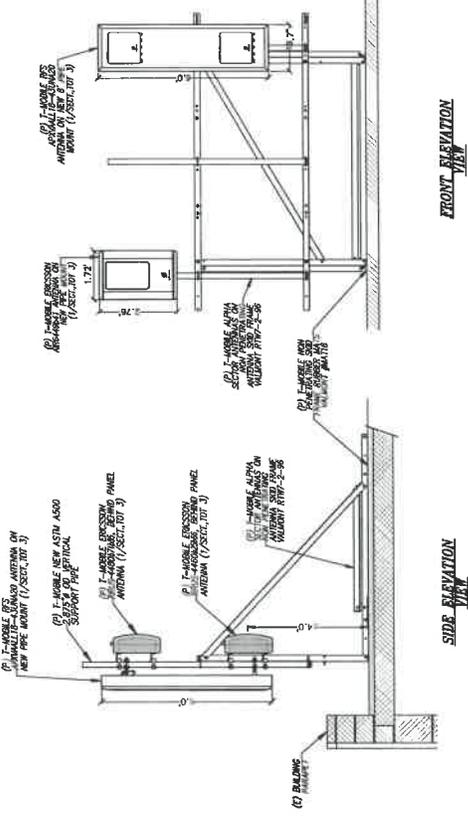
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SCALE: N.T.S.



**ALPHA SECTOR SKID FRAME**  
SCALE: N.T.S.



**BETA/GAMMA SECTOR RRU MOUNTING**  
SCALE: N.T.S.



**ALPHA SECTOR SKID FRAME**  
SCALE: N.T.S.

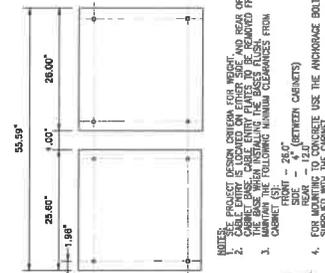
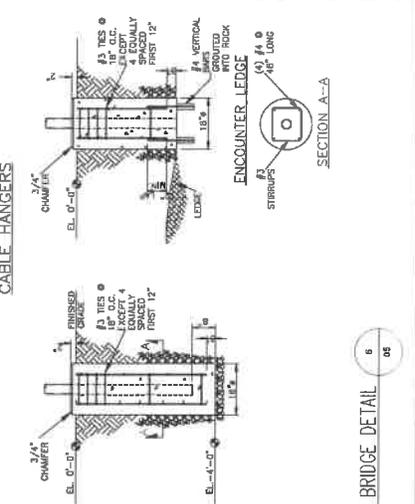
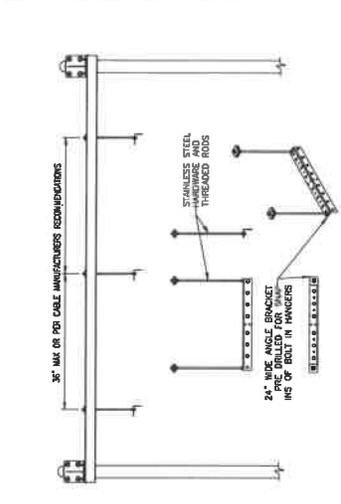
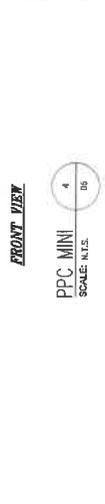
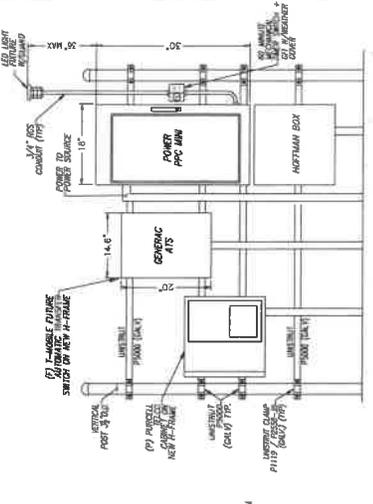


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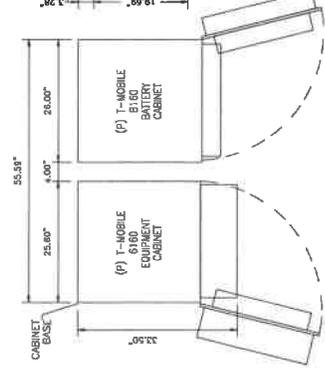
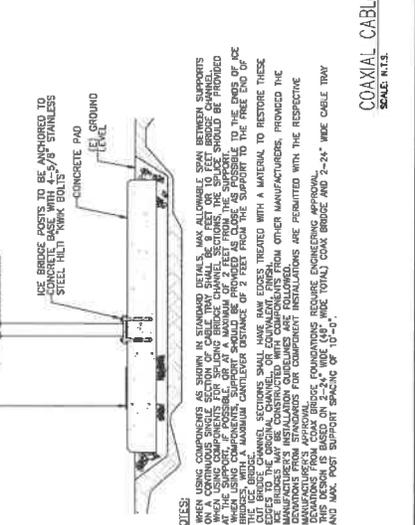
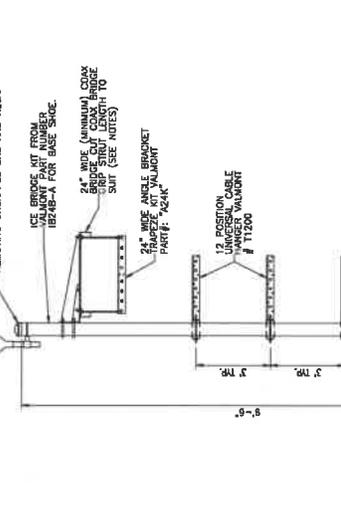
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1	10/29/21	GENERAL REVISIONS
2	11/04/21	FOR PERMITTING

**SUBMITTALS**

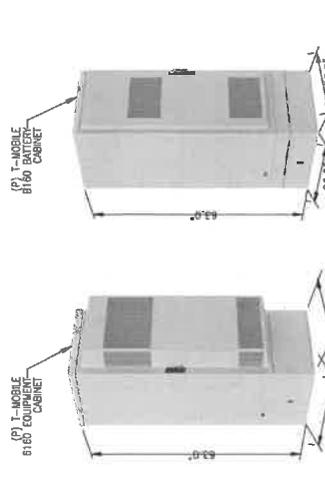
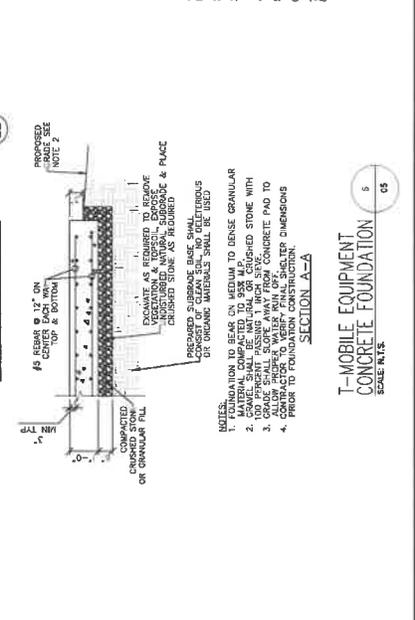
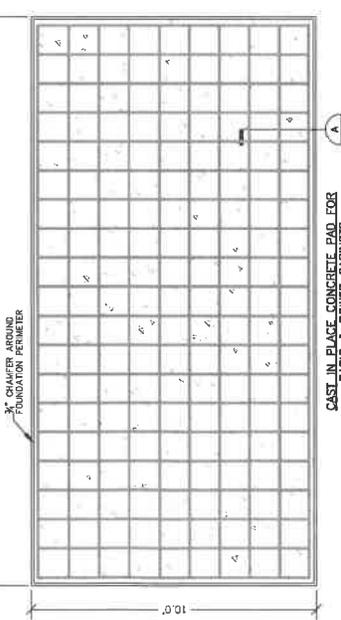
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SITE NAME: University Systems of NH-RT-KEENE  
SITE ADDRESS: 65 APPIAN WAY, KEENE, NH 03431  
SHEET TITLE: DETAILS 1  
SHEET NUMBER: 05



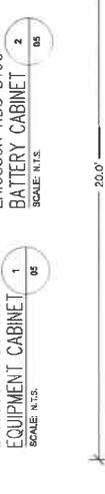
NOTES:  
1. SEE PROJECT DESIGN CHECKS FOR HEIGHT, CLEARANCE, AND WEIGHTS.  
2. CABLE BRIDGE, CABLE ENTRY PLATES TO BE REMOVED FROM THE BACK OF THE CABINET.  
3. CABLE BRIDGE, CABLE ENTRY PLATES TO BE REMOVED FROM THE BACK OF THE CABINET.  
4. EQUIPMENT TO BE MOUNTED ON THE MOUNTING BRACKETS SUPPLIED WITH THE CABINET.



**ERICSSON RBS B160 BATTERY CABINET**  
SCALE: N.T.S.



**ERICSSON RBS B160 EQUIPMENT CABINET**  
SCALE: N.T.S.







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NO.	DATE	DESCRIPTION	BY
1	10/27/21	ISSUED FOR REVIEW	MM
2	11/04/21	FOR PERMITTING	MM
3	10/29/21	GENERAL REVISIONS	MM
4	10/29/21	ISSUED FOR REVIEW	MM

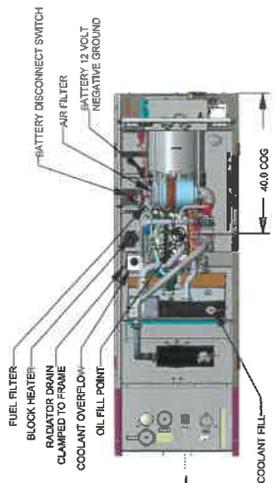
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**4KN0346B**  
 SITE NAME:  
**University Systems of  
 NH - RT - KERNE**  
 SITE ADDRESS:  
**65 APPIAN WAY  
 KERNE, NH 03431**

SHEET TITLE:  
**GENERATOR DETAILS**  
 SHEET NUMBER:  
**06**

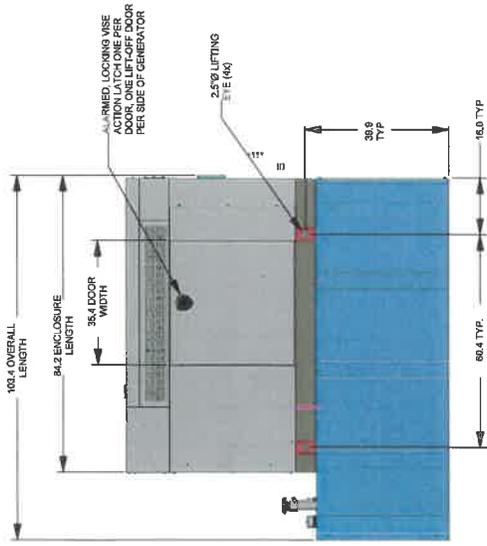
- NOTES: UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 77 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, AND LOCAL CODES.
- CONTROL PANEL (NEGATIVE GROUND SYSTEM)
  - CONTROL PANEL (NEGATIVE GROUND SYSTEM)
  - MAIN LINE CIRCUIT BREAKER 125 AMPS
  - SEE SPECIFICATION SHEET OR OWNER'S MANUAL
  - REMOVE THE REAR STUPELUP AND REAR ENCLOSURE COVER PANEL TO ACCESS NEUTRAL TAG CONNECTION INCLUDING AC LOAD LEAD CONDUIT CONNECTION, NEUTRAL CONNECTION, AND BATTERY CHARGER 120 VOLT AC (0.5 AMP MAX) CONNECTION.
  - ENGINE SERVICE CONNECTIONS
  - OIL DRAIN: 1/2" NPT HOSE CLAMPED TO FRAME
  - CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
  - BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND SEPARATE FROM EXHAUST AIR AND COOLING AIR FLOW.
  - REFERENCE OWNER'S MANUAL FOR LIFTING WARNINGS
  - MOUNTING BOLTS OR STUDS TO MOUNTING SURFACE SHALL BE 89-11 GRADE 5
  - 10 MUST ALLOW FOR FRESH AIR SPECIFICATIONS
  - SEE SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
  - GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE PERMETERS (PT) AND VERTICAL OVER EXHAUST (PT) CLEARANCE FOR SITE LOCATION.
  - GENERATOR MUST BE GROUNDED.

GENERATOR	WEIGHT (KG)	WEIGHT (LBS)
GENERAC ZERKAV D3.2L DIESEL GENERATOR	1336 [2946]	1336 [2946]
GENERATOR DATA WITH EMPTY BASE/TANK (SEE NOTE 9)	1354 [2984]	1354 [2984]
GENERATOR AS SHOWN WITH WOODEN SHIPPING SKID		

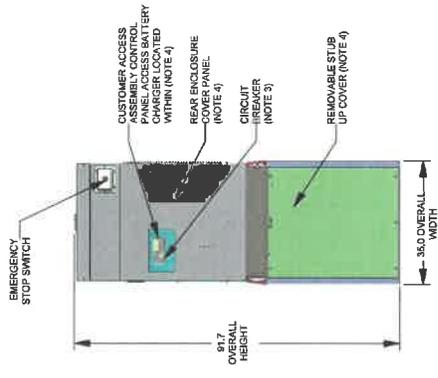
WEIGHT: KG (LBS)  
 DIMENSIONS: MM (INCHES)



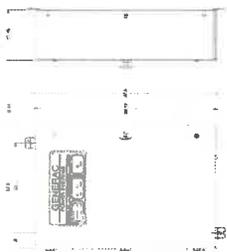
GENERATOR TOP VIEW  
 ENCLOSURE REMOVED  
 SCALE: 1/8"



GENERATOR ELEVATION VIEW  
 SCALE: 2/8"

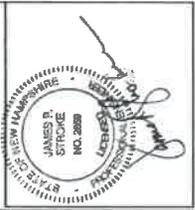


GENERATOR ELEVATION  
 REAR VIEW  
 SCALE: 3/8"



MANUFACTURER:	GENERAC
MODEL:	ZERKAV D3.2L DIESEL
WEIGHT:	1336 KG (2946 LBS)
HEIGHT:	81.7 MM (32.17 IN)
WIDTH:	35.0 MM (1.38 IN)
DEPTH:	108.4 MM (4.27 IN)
ENCLOSURE TYPE:	NEW
WARRANTY:	3 YEAR / 3000 HRS
WARRANTY RATING:	25,000 AMPS
WARRANTY RANGE:	11-4000MM

AUTOMATIC TRANSFER  
 SWITCH DETAIL  
 SCALE: 4/8"



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NO	DATE	DESCRIPTION	BY
1	10/29/21	GENERAL REVISIONS	MM
2	11/04/21	FOR PERMITTING	MM
3	10/29/21	ISSUED FOR REVIEW	MM

SHEET NUMBER: **4KN0346B**  
 SHEET NAME: **University Systems of NH-RT-KENE**  
 SHEET ADDRESS: **65 APPIAN WAY KENNEBEC, NH 03431**

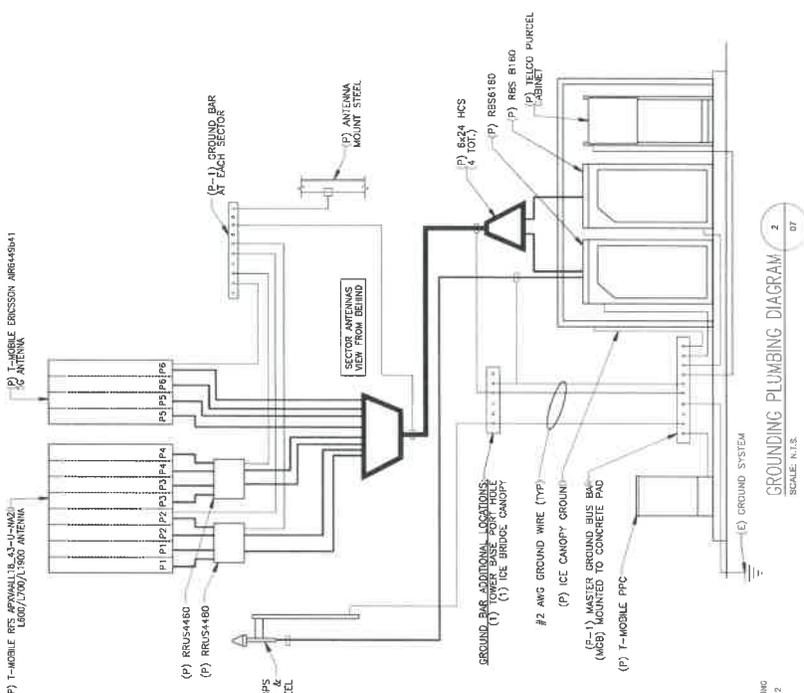
SHEET TITLE: **GROUNDING & RF PLUMBING DIAGRAM**  
 SHEET NUMBER: **07**

**HYBRID FIBER/POWER JUMPER NOTES:**

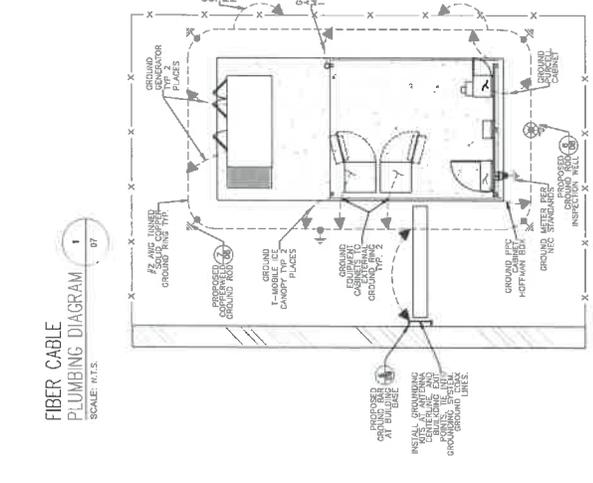
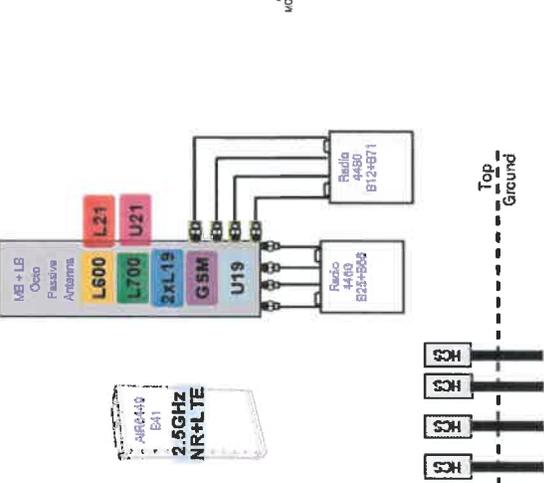
- IN GENERAL THIS CABLE WILL HANDLE SIMILARLY TO A COAXIAL CABLE. COAXIAL CABLES ARE FRAGILE AND MUST BE PROTECTED DURING INSTALLATION. LEAVE THE PACKAGING AROUND THE JUMPER BETWEEN THE OPTIC AND FIBER BREAKOUT CABLE. DO NOT BEND THE FIBER BREAKOUT CABLE BETWEEN THE MAIN CABLE AND THE FIBER BREAKOUT CABLE. THE MAIN CABLE SHOULD BE SECURED TO THE STRUCTURE OR TO PREVENT STRAIN ON CONNECTIONS FROM MOVEMENT IN WIND OR SNOW/ICE CONDITIONS. THE MAIN CABLE SHOULD BE SECURED TO THE STRUCTURE OR TO PREVENT STRAIN ON CONNECTIONS FROM MOVEMENT IN WIND OR SNOW/ICE CONDITIONS. THE MAIN CABLE SHOULD BE SECURED TO THE STRUCTURE OR TO PREVENT STRAIN ON CONNECTIONS FROM MOVEMENT IN WIND OR SNOW/ICE CONDITIONS.
- INSTALLATION TEMPERATURE RANGE IS -22F TO 158F (-30C TO 70C).
- MINIMUM CABLE BEND RADIUS ARE 10.3 INCH (263MM) UNLOADED AND 15.2 INCH (385MM) LOADED (130MM) UNLOADED.
- MAXIMUM CABLE TENSILE LOAD IS 350 LB (156KN) SHORT TERM (DURING INSTALLATION) AND 90 LB (405N) LONG TERM.
- STANDARD LENGTHS AVAILABLE ARE 6 FEET, 15 FEET AND 20 FEET.

**TRUNK FIBER NOTES:**

- IN GENERAL THIS CABLE WILL HANDLE SIMILARLY TO COAXIAL CABLE, AND SIMILAR INSTALLATION TECHNIQUES APPLY. ALL 78" COAXIAL CABLE, AND CABLES ARE INDIVIDUALLY SERIALIZED, BE SURE TO WRITE DOWN THE CABLE SERIAL NUMBER FOR FUTURE REFERENCE.
- THE TERMINATED FIBER ENDS (THE BROKEN OUT ENDS) SHOULD BE PROTECTED DURING THE INSTALLATION PROCESS.
- LEAVE THE PROTECTIVE TUBE AND SPOCK AROUND THE FIBER ENDS AND SECURE THEM TO THE STRUCTURE PRIOR TO MAKING THE FINAL CONNECTIONS TO THE OVP BOX.
- DO NOT BEND THE FIBER ENDS (IN THE ORANGE PROTECTIVE TUBES) TIGHTER THAN (18MM) BEND RADIUS. THE TIGHTER THE BEND RADIUS IS, ELSE THERE IS A RISK OF BREAKING THE GLASS FIBERS.
- BE SURE THAT THE LACE UP ENDS AND FIBER ENDS ARE PROTECTED DURING THE HOISTING PROCESS. ATTACH A HOISTING GRIP ON THE JACKETED CABLE NO LESS THAN 6 INCHES BELOW THE HOISTING GRIP. THE HOISTING GRIP IS NOT EASILY ATTACHED, USE A SIMPLE LINE ATTACHED BELOW THE FIBER BREAK-OUT POINT (I.E. AT THE CABLE OUTER JACKET). PREVENT THE END FROM UNDER MOVEMENT DURING HOISTING BY SECURING THE PROTECTIVE TUBE (WITH OUTER SPOCK) TO THE HOISTING LINE.
- DURING HOISTING ENSURE THAT THERE IS A FREE END (WITH TENSION ON THE CABLE) AND 1:1' (305MM) OF CABLE TENSION ON THE CABLE AND 1:1' (305MM) OF CABLE TENSION ON THE CABLE AND 1:1' (305MM) OF CABLE TENSION ON THE CABLE.
- MAXIMUM CABLE TENSILE LOAD IS 3600 N (800 LB) SHORT TERM (DURING INSTALLATION) AND 1070 N (240 LB) LONG TERM.
- MONOSCOPE NON LACE UP GRIP RECOMMENDED FOR NONPOLE INSTALLATIONS. 11. MAXIMUM HANGER SPACING 3FT (0.9 M).



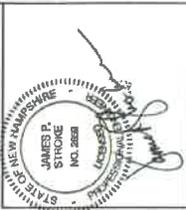
- GROUNDING GENERAL NOTES**
- GROUND DIT CALVICANING IN SELECTED AREA, EXOTHERMICALLY WELD E2 CONDUCTOR AT 0" ABOVE GRADE OR FOUNDATION, WHICHEVER IS HIGHER. COU-GALV AFTER, EXOTHERMICALLY WELD OTHER END TO GROUND BONDING POINT.
  - GROUND COAX LINES, GROUND ANTENNA MOUNTING PIPES TO TOWER STEEL.
  - ALL GROUNDING WORK SHALL COMPLY WITH T-MOBILE STANDARDS, FOLLOWING A RESISTANCE OF 2 OHMS OR LESS. SUBMIT AN INDEPENDENT TESTING REPORT.
  - ALL GROUNDING CONDUCTORS ON EXTERIOR CABINET SHALL BE ATTACHED TO GALVANIZED "C" CLAMPS. CLAMPS TO 1/2" BOLT. GROUND ATTACH PVC WITH GALVANIZED "C" CLAMPS.
  - CONTRACTOR SHALL HANG-ON IN AREAS AROUND EXISTING UTILITIES.
  - CONTRACTOR SHALL VERIFY ALL GROUNDING POINTS AND DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.



**SITE COMPOUND GROUNDING**  
 SCALE: N.T.S.



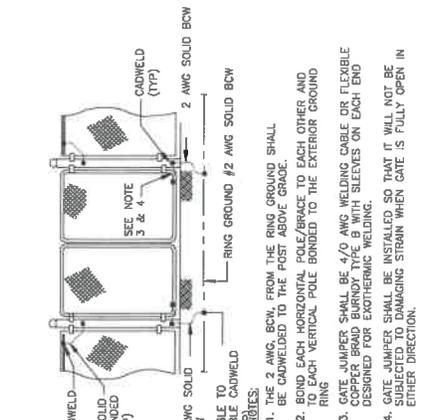




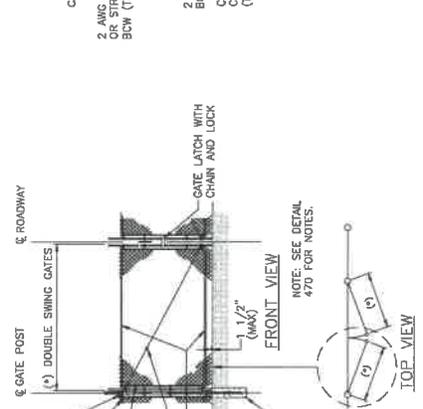
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SUBMITTALS	
NO.	DESCRIPTION
1	11/17/21
2	11/17/21
3	10/29/21
4	10/27/21

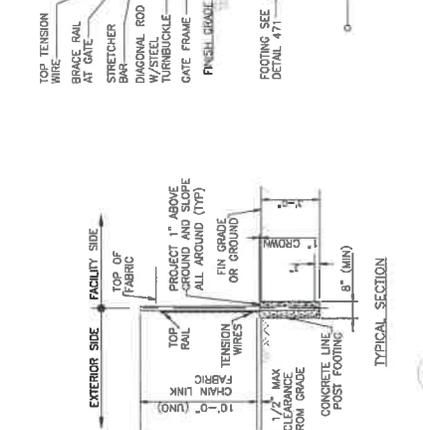
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 SITE NAME: **University Systems of NH - RT - Keene**  
 SITE ADDRESS: **65 APPIAN WAY, KEENE, NH 03431**  
 SHEET TITLE: **FENCE DETAILS 1**



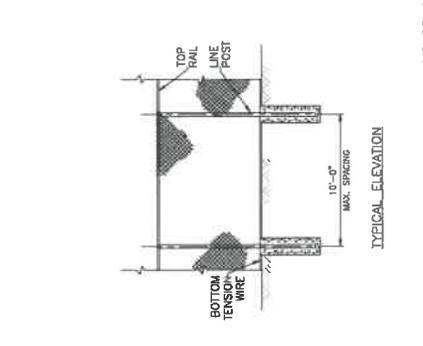
**WOVEN WIRE FENCE GATE GROUNDING**  
 SCALE: N.T.S.



**WOVEN WIRE FENCE SWING GATE, DOUBLE**  
 SCALE: N.T.S.



**WOVEN WIRE FENCE**  
 SCALE: N.T.S.



**WOVEN WIRE CORNER, GATE END/PULL POST**  
 SCALE: N.T.S.



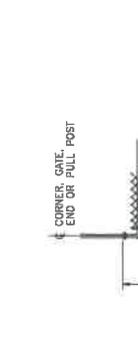
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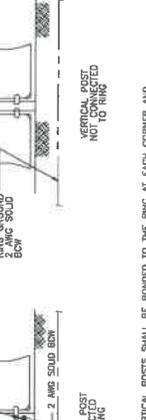
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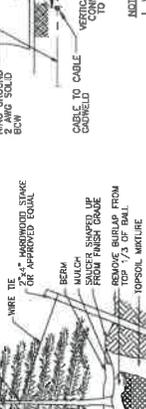
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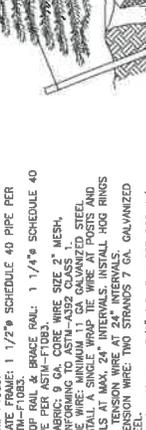
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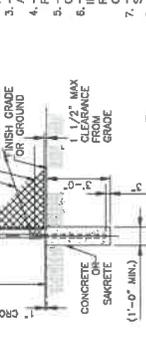
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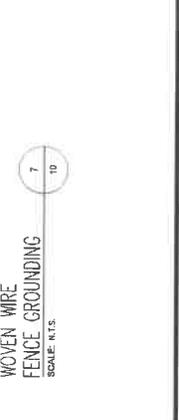
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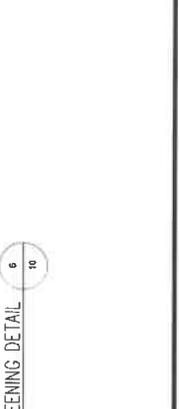
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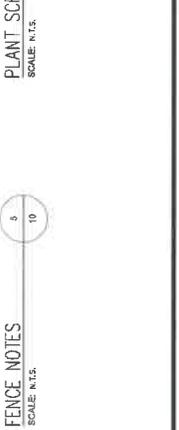
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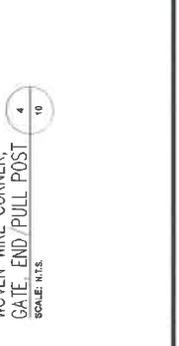
**WOVEN WIRE FENCE GATE GROUNDING**  
 SCALE: N.T.S.



**WOVEN WIRE FENCE GATE GROUNDING**  
 SCALE: N.T.S.



**WOVEN WIRE FENCE GATE GROUNDING**  
 SCALE: N.T.S.



**WOVEN WIRE CORNER, GATE END/PULL POST**  
 SCALE: N.T.S.



**WOVEN WIRE FENCE GATE GROUNDING**  
 SCALE: N.T.S.



**WOVEN WIRE FENCE GATE GROUNDING**  
 SCALE: N.T.S.



**WOVEN WIRE FENCE GATE GROUNDING**  
 SCALE: N.T.S.



**WOVEN WIRE CORNER, GATE END/PULL POST**  
 SCALE: N.T.S.

## ADDITIONAL SITE INFORMATION

Project Name	4KN0346
Project Address	65 Appian Way, Keene, Cheshire County, NH 03431
Topographic Map	Keene, USGS 7.5 Minute Topographical Map.
Project Coordinates	Latitude: N 42° 55' 37.4"; Longitude: W 72° 16' 48.8" UTM Coordinates: Zone: 18, Easting: 721953, Northing: 4756304
Project Description	Proposed installation of a rooftop telecommunications facility. Proposed work on the rooftop will install six antennas, six RRUS, one GPS antenna, one non-penetrating antenna skid frame, four wall pipe mounts, two wall mounted unistruts, two hybrid fiber cables and rooftop and wall-mounted cable trays. Work in the proposed ground level equipment area will install one generator, one battery cabinet, one equipment cabinet, underground conduit, and an H-frame with a PPC, meter, transfer switch and Purcell cabinet. All equipment will be installed on a new concrete pad concealed by fence and landscaping. A new step-down transformer will be installed outside the fence. All wall mounted antennas and equipment will be painted to match the building.
Access Road Description	Access via existing parking lot off Blake St.
Utility Lines Description	Route to nearest power/telco on site.
Additional Construction Plans / Impacts	None.
Impact Statement	Project area was previously disturbed.
Present Land Use	Existing multistory building constructed circa 1960.