



Heritage Commission

Wednesday, March 9, 2022, 4:00 PM

2nd 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

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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 1st 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 16th 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 1st.

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.

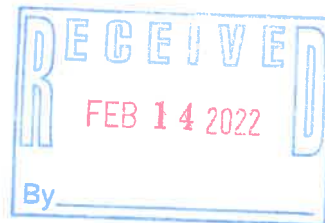
Sincerely,
RESCOM Environmental Corp

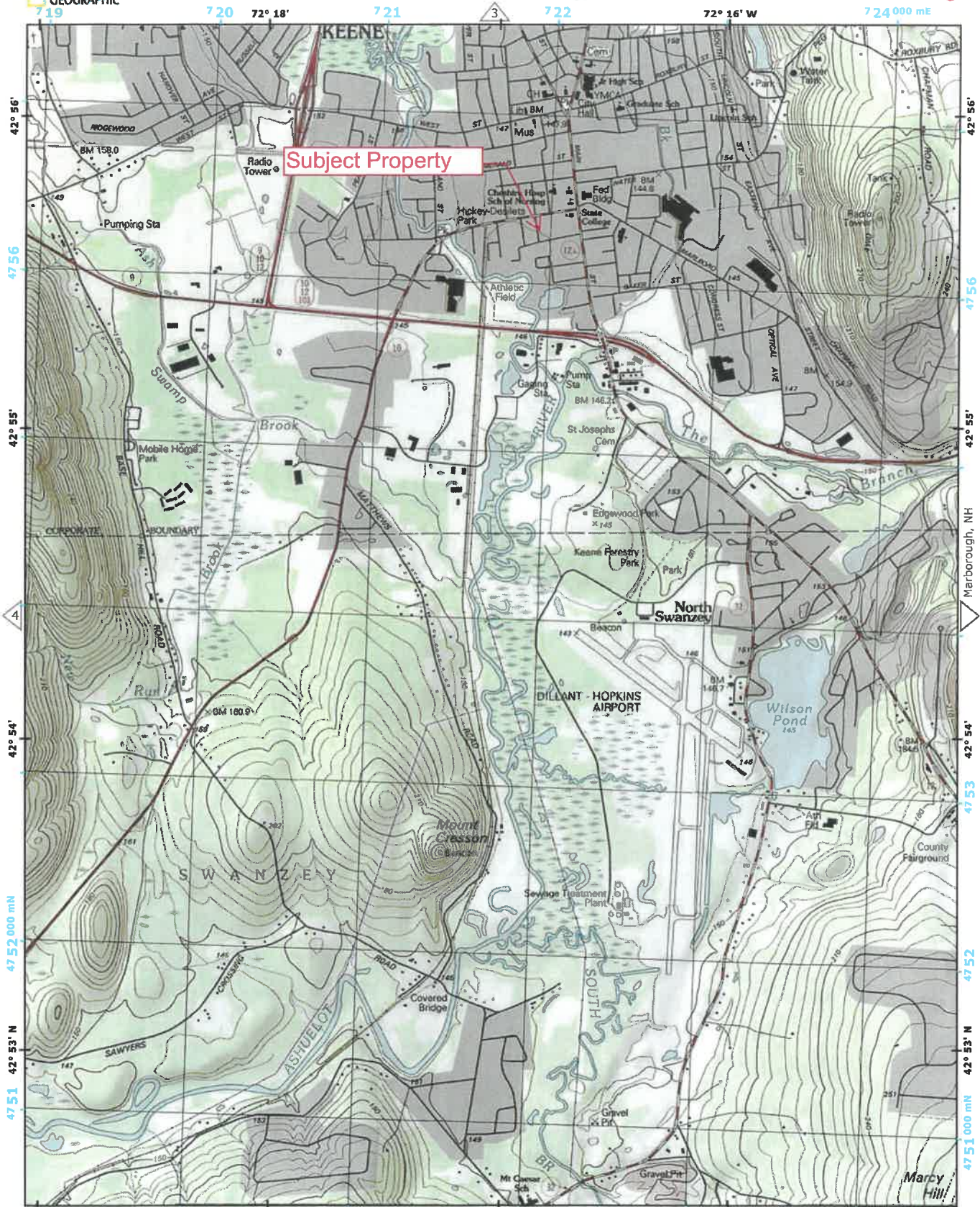
A handwritten signature in black ink, appearing to read "Jamie Cochran-Smith". The signature is fluid and cursive.

Jamie Cochran-Smith
Archaeologist/Historian
jamie.cochran-smith@rescom.org

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.

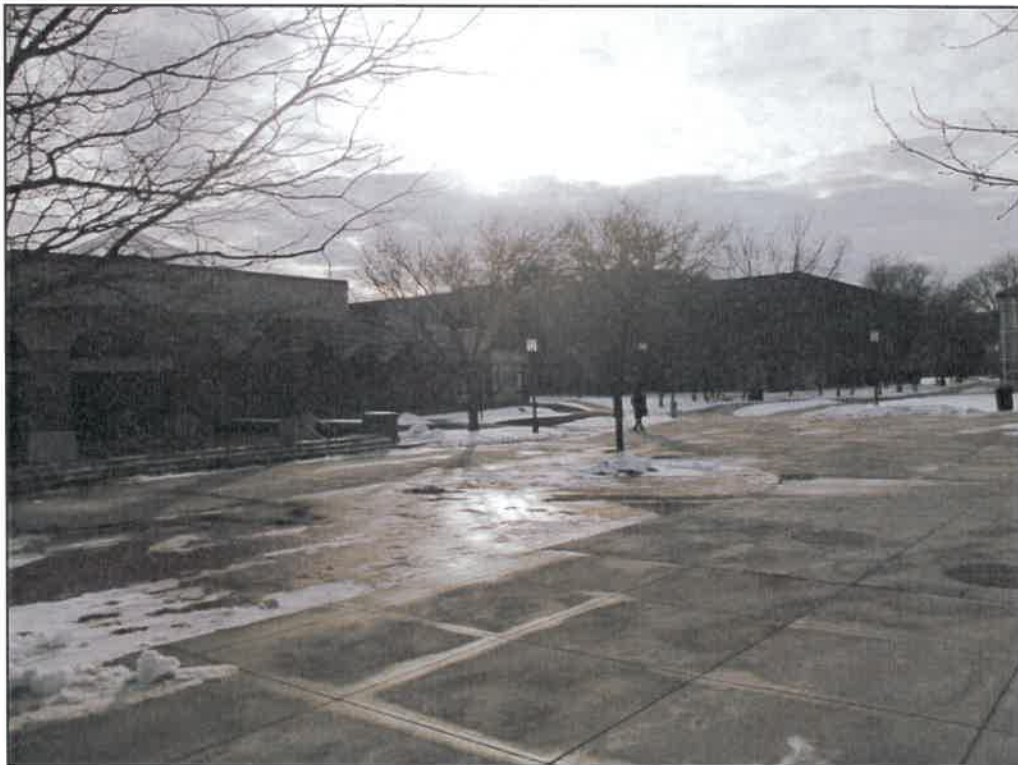


Photograph 8 – Adjacent property, facing southeast.

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

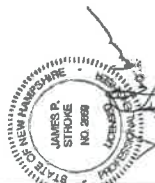
SITE NAME:
4KN0346A-UniversitySystems of NH-RT-KEENE

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

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

smartlink
SMARTLINK, LLC
85 RANGEMAN ROAD
BLDG #3, 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	DESCRIPTION
01	ONE
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11	FOR PERMITTING
12	GENERAL REVISIONS
13	FOR REVIEW

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

SHT #	TITLE SHEET	SHEET DESCRIPTION
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

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LEASING/ _____ DATE: _____

R.F. ENGINEER: _____ DATE: _____

LANDLORD/ _____ DATE: _____

PROPERTY OWNER: _____ DATE: _____

VICINITY MAP (NOT TO SCALE)



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
85 RANGEMAN ROAD
BLDG #3, SUITE 102
NORTH BILLERICA, MA 01862

ARCHITECT/ENGINEER: VERTICAL RESOURCES GROUP
150 STATE STREET, 2ND FL
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

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

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KENNEBEC, NH 03431
D: 603.882.7100
F: 603.882.1199

SMARTLINK, LLC
65 RANGEMAN ROAD
NORTH BERLICA, MA 01862

VERTICAL RESOURCES GRP.
23 MIDSTATE DR., #210
MILFORD, NH 03055
TEL: 508-561-8550
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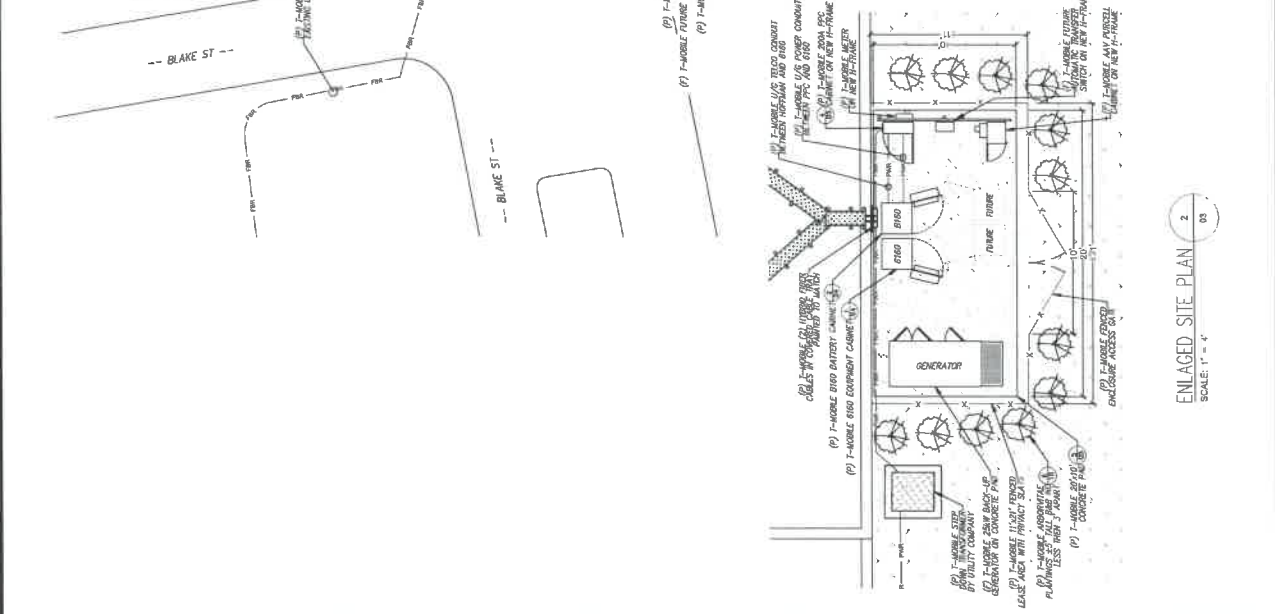


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NO.	DATE	DESCRIPTION
1	11/07/17	FOR PERMITTING
2	11/07/17	GENERAL REVISIONS
3	10/27/17	ISSUED FOR REVIEW

4KN0340B
SITE NAME:
**University Systems of
NH - RT - KEENE**
SITE ADDRESS:
**65 APPIAN WAY,
KENNEBEC, NH 03431**

SITE PLAN
SHEET NUMBER:
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SITE PLAN
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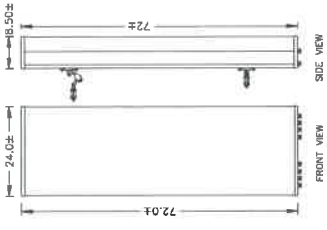
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2 03



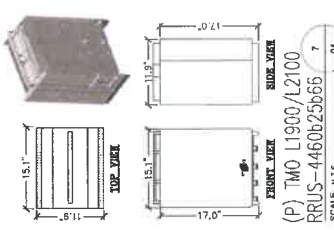
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NO	DATE	DESCRIPTION	BY
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3	10/29/21	ISSUED FOR REVIEW	MM

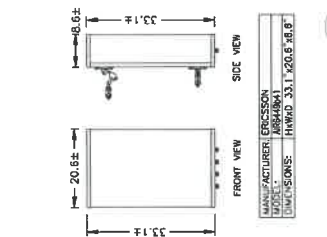
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University Systems of NH - RT - KEENE
 SITE ADDRESS:
**65 APPAN WAY
 KEENE, NH 03431**
 SHEET TITLE:
ANTENNA & CABLE DETAILS
 SHEET NUMBER:
04



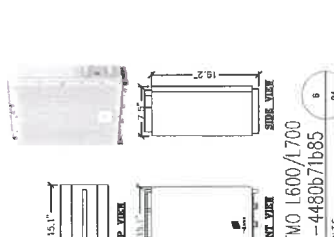
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 SCALE: N.T.S.



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 TMO L1900/L2100
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 SCALE: N.T.S.



MANUFACTURER'S MODEL NUMBER: AIR649b41
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 ERICSSON AIR649b41
 SCALE: N.T.S.



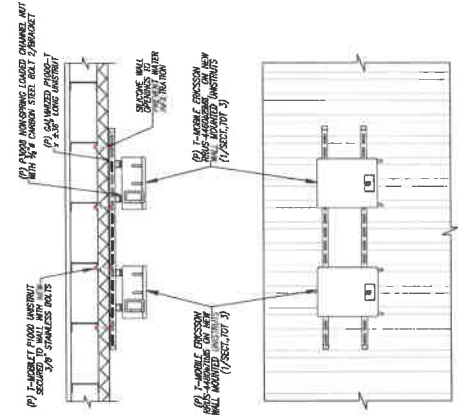
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 SCALE: N.T.S.



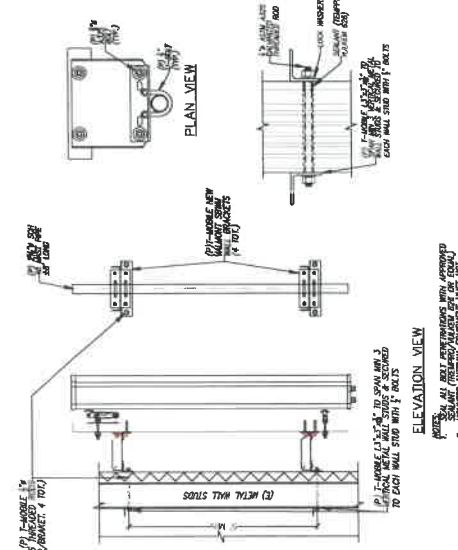
ANTENNA MAST PIPE UNIVERSAL GPS MOUNT BRACKET
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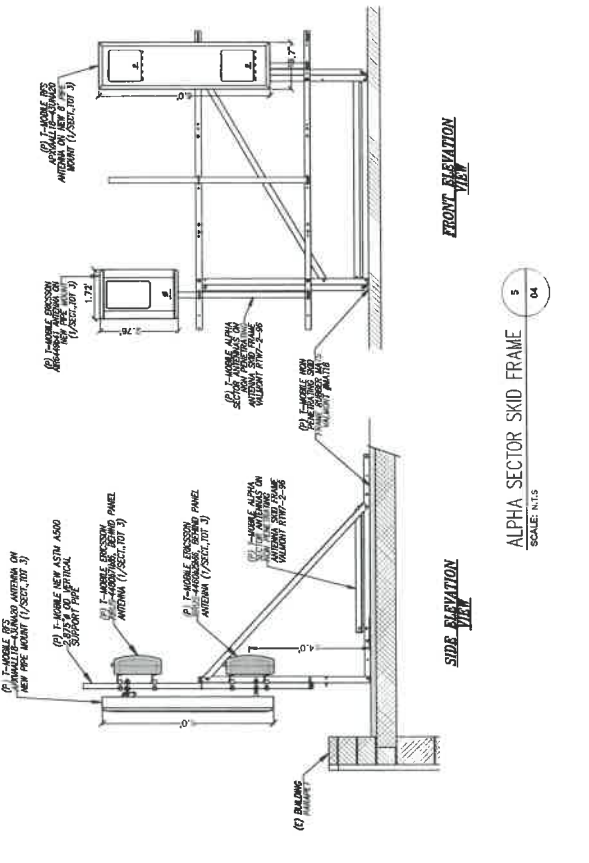
HORIZONTAL CABLE TRAY
 SCALE: N.T.S.



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



BETA/GAMMA ANTENNA SUPPORTS
 SCALE: N.T.S.



FRONT ELEVATION
ALPHA SECTOR SKID FRAME
 SCALE: N.T.S.

SIDE ELEVATION

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 9. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

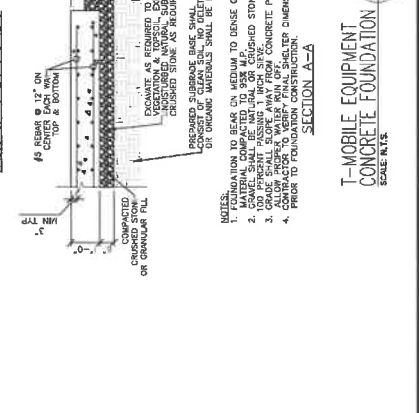
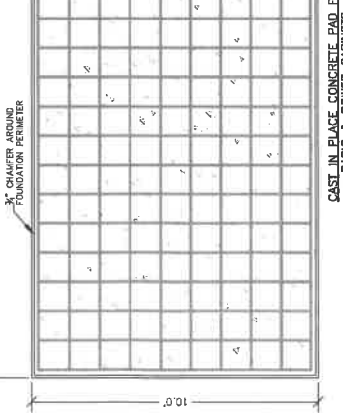
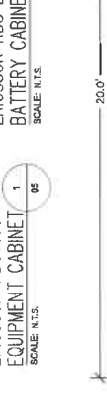
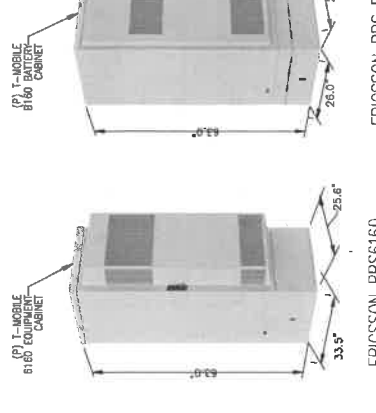
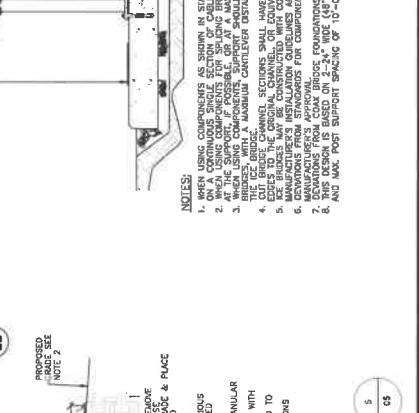
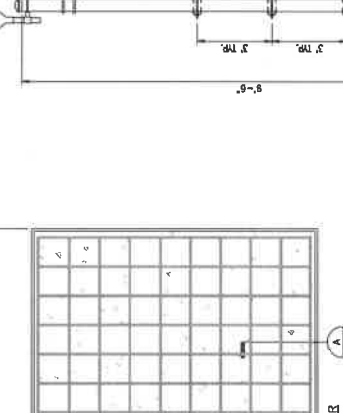
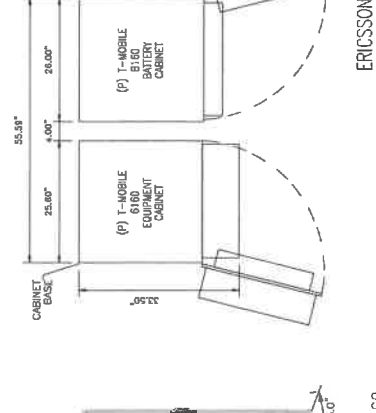
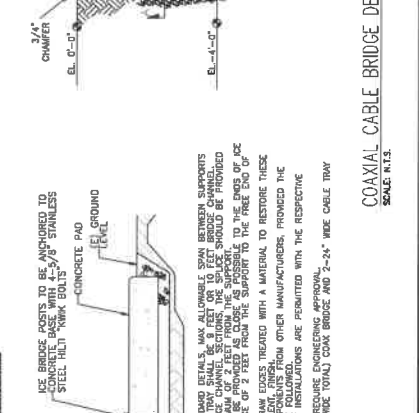
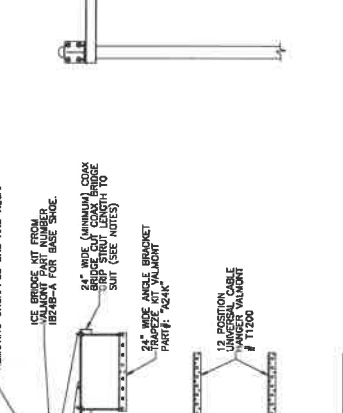
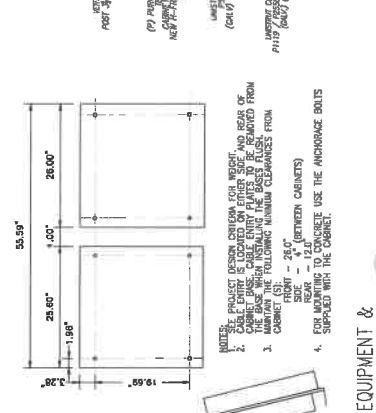
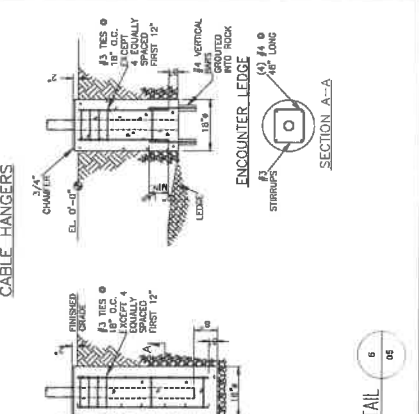
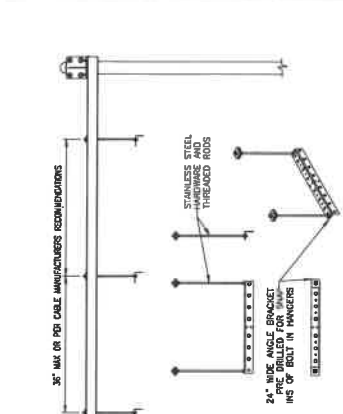
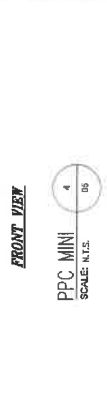
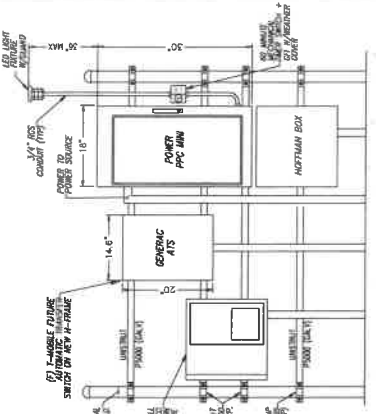


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NO.	DATE	DESCRIPTION
0	10/29/21	ISSUED FOR REVIEW
1	10/29/21	GENERAL REVISIONS
2	11/04/21	FOR PERMITTING

SUBMITTALS

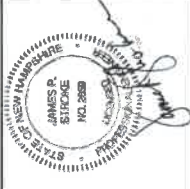
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SITE NAME: University Systems of NH-RT-KEENE
SITE ADDRESS: 65 APPIAN WAY, KEENE, NH 03431
SHEET NO.: DETAILS 1
SHEET NUMBER: 05



T-Mobile
 T-MOBILE NORTHEAST LLC
 35 CRIFFIN ROAD SOUTH
 BLOOMFIELD, CT 06002
 C: 860-882-7100
 F: 860-882-7108

smartlink
 SMARTLINK, LLC
 35 RANGEMAN ROAD
 NORTH BILMERE, MA 01852

VRG
 VERTICAL RESOURCES GRP.
 23 MADSTATE DR., #210
 AUBURN, MA 01501
 T: 508-885-8800
 F: 508-519-8839



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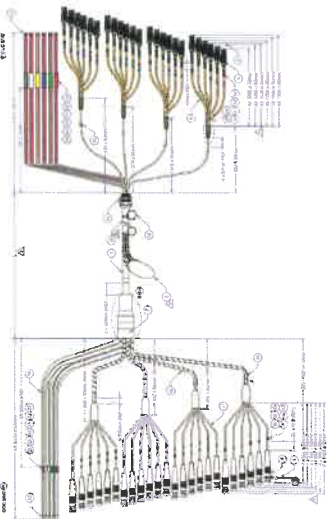
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2	11/04/21	FOR PERMITTING	MM		
3	10/29/21	ISSUED FOR REVIEW	MM		

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 SITE NAME: **University Systems of NH - RY - KEENE**
 SITE ADDRESS: **65 APPIAN WAY KEENE, NH 03431**

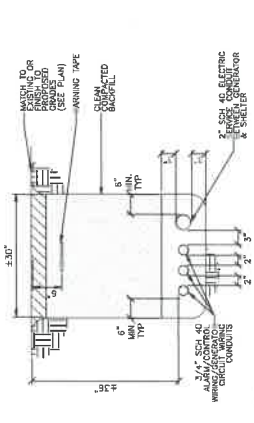
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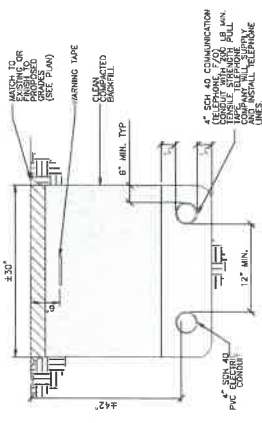
PROPOSED FIBER PATH
 SCALE: N.T.S.



6x24 HYBRID CABLE DETAIL
 SCALE: N.T.S.

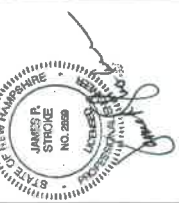


TRENCH DETAIL - GENERATOR SERVICE
 SCALE: N.T.S.



TRENCH DETAIL - ELEC/TELCO
 SCALE: N.T.S.

NOTES:
 1. ALL MATERIAL SHALL BE OF CLEAN CON. NO RESIDUES OR ORGANIC MATERIALS ARE TO BE USED.
 2. ALL CONDUITS SHALL BE CLEAN AND FREE OF RESIDUES OR ORGANIC MATERIALS.
 3. ALL CONDUITS SHALL BE CLEAN AND FREE OF RESIDUES OR ORGANIC MATERIALS.
 4. TRENCH SHALL BE CONCRETE UNDER ACCESS ROAD.



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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

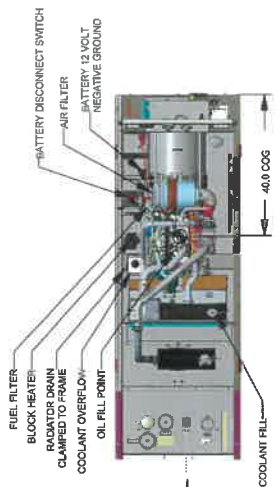
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4KN0346B
 SITE NAME:
**University Systems of
 NH - RT - KERNE**
 SITE ADDRESS:
**65 APPIAN WAY
 KERNE, NH 03431**

SHEET TITLE:
GENERATOR DETAILS
 SHEET NUMBER:
06

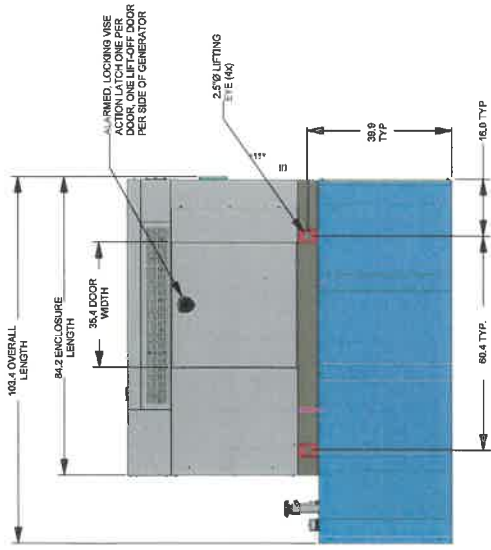
- NOTES: UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 77 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, AND LOCAL CODES.
- CONTROL PANEL (NEGATIVE GROUND SYSTEM)
 - CONTROL PANEL (NEGATIVE GROUND SYSTEM)
 - MAIN LINE CIRCUIT BREAKER 125 AMPS
 - SEE SPECIFICATION SHEET OR OWNER'S MANUAL
 - REMOVE THE REAR STUPEL 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		

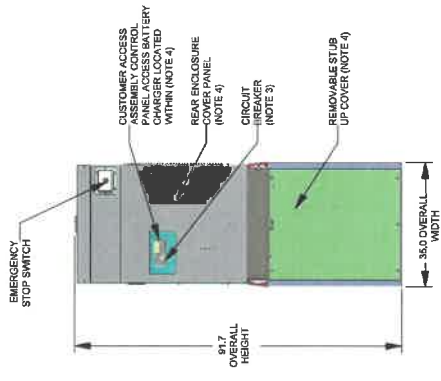
WEIGHT: KG (LBS)
 DIMENSIONS: MM (INCHES)



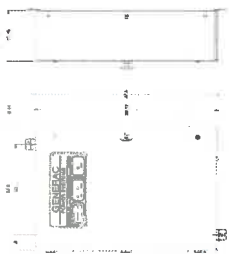
GENERATOR TOP VIEW
 ENCLOSURE REMOVED
 SCALE: 1/8"



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 (3.217 FT)
WIDTH:	35.0 MM (1.378 FT)
DEPTH:	108.4 MM (4.268 FT)
ENCLOSURE TYPE:	NEW
ENCLOSURE MATERIAL:	STEEL
ENCLOSURE FINISH:	PSA
ENCLOSURE COLOR:	BLACK
ENCLOSURE WEIGHT:	1354 KG (2984 LBS)
ENCLOSURE HEIGHT:	81.7 MM (3.217 FT)
ENCLOSURE WIDTH:	35.0 MM (1.378 FT)
ENCLOSURE DEPTH:	108.4 MM (4.268 FT)

AUTOMATIC TRANSFER
 SWITCH DETAIL
 SCALE: 4/8"



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

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

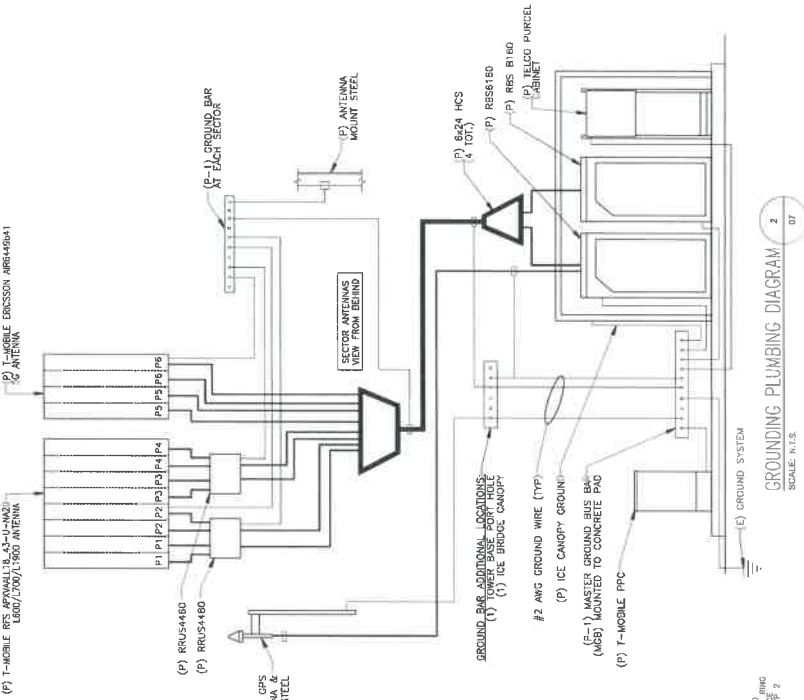
SHEET TITLE: **GROUNDING & RF PLUMBING DIAGRAM**
 SHEET NUMBER: **07**

HYBRID FIBER/POWER JUMPER NOTES:

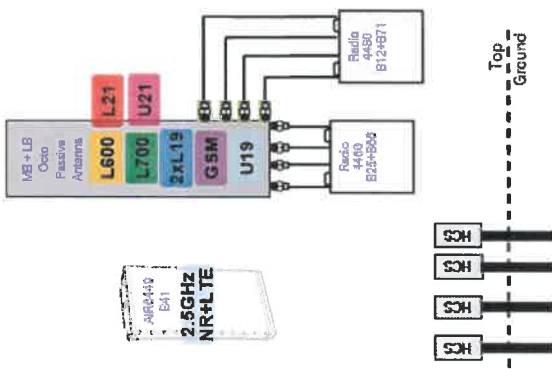
- IN GENERAL THIS CABLE WILL HANDLE SIMILARLY TO A COAXIAL CABLE OF COAXIAL CABLE. THE CABLE IS FRAGILE AND MUST BE PROTECTED DURING INSTALLATION. LEAVE THE PACKAGING AROUND THE JUMPER BETWEEN THE MAIN CABLE AND THE COAXIAL CABLE. DO NOT BEND THE FIBER BREAKOUT CABLE BETWEEN THE MAIN CABLE AND THE FIBER CONNECTOR. IN OTHER THICKNESS THAN (15MM) RADIUS, (18MM) RADIUS, ELSE THERE IS A RISK OF BREAKING THE GLASS.
- WHEN THE MAIN CABLE SECURELY TO THE STRUCTURE OR TO PREVENT STRAIN ON CONNECTIONS, CABLE TIES TO PREVENT STRAIN ON CONNECTIONS FROM MOVEMENT IN WIND OR SNOW/ICE CONDITIONS. THE LATCHES AND CONNECTIONS ARE SEATED FIRMLY IN PLACE.
- INSTALLATION TEMPERATURE RANGE IS -22F TO 158F (-30C TO 70C).
- MINIMUM CABLE BEND RADIUS ARE 10.3 INCH (260MM) LONG AND 15 INCH (381MM) 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:

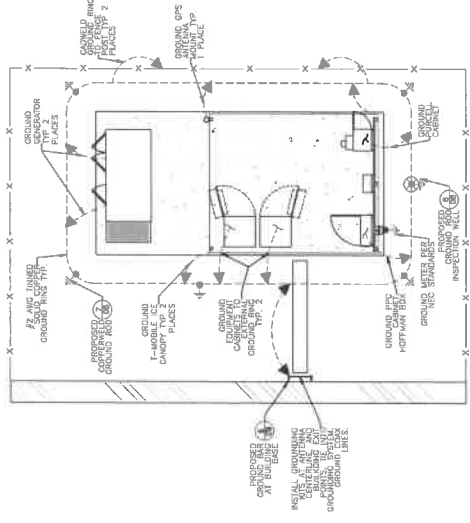
- IN GENERAL THIS CABLE WILL HANDLE SIMILARLY TO COAXIAL CABLE, AND SIMILAR INSTALLATION TECHNIQUES APPLY. ALL 78" COAXIAL CABLE, AND CABLES ARE INDIVIDUALLY SERIALIZED, BE SURE TO WRITE DOWN THE CABLE SERIAL NUMBER FOR FUTURE REFERENCE.
- THE TERMINATED FIBER ENDS (THE BROKEN OUT ENDS) MUST BE PROTECTED DURING THE INSTALLATION PROCESS.
- LEAVE THE PROTECTIVE TUBE AND SPOCK AROUND HOISTING AND SECURE CONNECTIONS IN PLACE DURING ONLY JUST PRIOR TO MAKING THE FINAL CONNECTIONS TO THE OVP BOX.
- DO NOT BEND THE FIBER ENDS (IN THE ORANGE INDICATION TUBES) TIGHTER THAN (18MM) BEND RADIUS. ELSE THERE IS A RISK OF BREAKING THE GLASS FIBERS.
- BE SURE THAT THE LATCH UP ENDS AND FIBER HOISTING GRIP OR 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).
- DURING HOISTING ENSURE THAT THERE IS A FREE HOISTING TUBE (WITH HOISTING GRIP) AND FIBER ENDS, WILL NOT CATCH ON TOWER MEMBERS OR OTHER OBSTACLES.
- INSTALLATION TEMPERATURE RANGE IS -22F TO 158F (-30C TO +70C).
- MINIMUM CABLE BEND RADIUS ARE 22.2" (565MM) (300MM) (WITH TENSION ON THE CABLE) AND 11.1" (281MM) (WITHOUT 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 CALVARING IN SELECTED AREA, EXTERNALLY WELD #2 CONDUCTOR AT 0" ABOVE GRADE OR FOUNDATION, WHICHEVER IS HIGHER. COU-DALY AFTER, EXTERNALLY WELD OTHER END TO GROUND BARS.
 - 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 WITH GALVANIZED "C" CLAMPS. #2 AWG CONDUIT TO 1/2" BELLOW GRADE, ATTACH PVC.
 - CONTRACTOR SHALL HANG-UP IN AREAS AROUND EXISTING UTILITIES.
 - CONTRACTOR SHALL VERIFY ALL GROUNDING DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.



FIBER CABLE PLUMBING DIAGRAM
 SCALE: N.T.S.



SITE COMPOUND GROUNDING
 SCALE: N.T.S.

T-Mobile
T-MOBILE NORTHEAST LLC
 85 BENTLEY ROAD SOUTH
 BLOOMFIELD, CT 06020
 C: 866-6827100
 F: 866-6827189

smartlink
 SMARTLINK, LLC
 100 WASHINGTON ROAD
 BLDG 300 SUITE 202
 NORTH BILLERICA, MA 01862

VRG
 VERTICAL RESOURCES GRP.
 23 INDUSTRIAL DRIVE
 ANDOVER, MA 01910
 TEL: 508-881-8890
 FAX: 508-881-8939



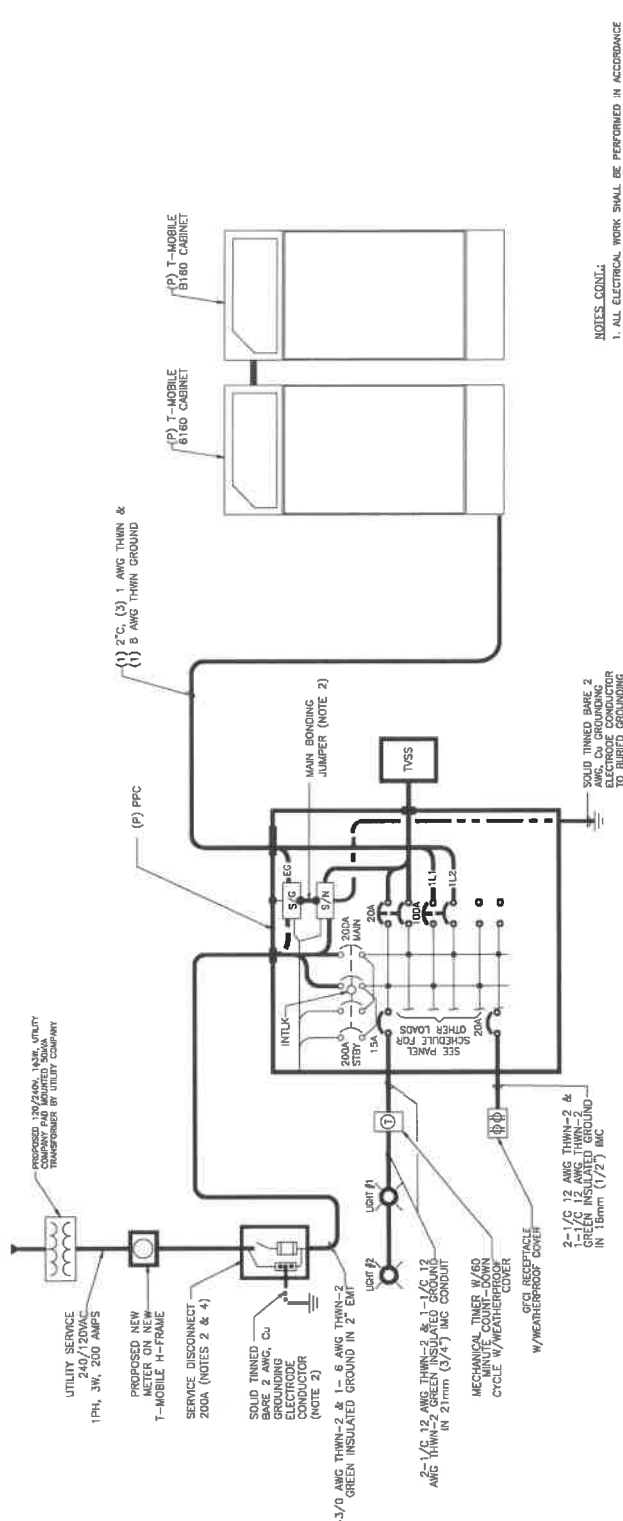
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SUBMITTALS

NO.	DATE	DESCRIPTION	BY
1	11/14/21	FOR PERMITTING	AN
2	10/29/21	GENERAL REVISIONS	AN
3	10/27/21	ISSUED FOR REVIEW	AN

SITE NUMBER:
4KN0346B
 SITE NAME:
University Systems of NH-RT-KENNE
 SITE ADDRESS:
**66 APPIAN WAY
 XENENE, NH 03431**

SHEET TITLE:
POWER SINGLE LINE DIAGRAM
 SHEET NUMBER:
08



- NOTES:**
1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND ALL APPLICABLE LOCAL CODES.
 2. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL VERIFY CONDITIONS TO THEIR ACCESS TO EQUIPMENT IS NOT BLOCKED.
 3. SERVICE TO EQUIP. SHALL BE 120/240 VAC, 200 AMP, 1.5 TO 30 Hz.
 4. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSSES OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
 5. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC (SOLDERED) CONNECTIONS.
 6. ALL GROUND CONNECTIONS BELOW GRADE SHALL BE EXOTHERMIC (SOLDERED).
 7. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR & EXTERIOR) SHALL BE FORMED USING HIGH TENSILE STRENGTH STEEL W/ GALVANNEALING AND GALVANNEALING SHALL BE AT THE TOP & HAVE A VERTICAL SEPARATION OF 6" FOR EVERY ADDITIONAL CONNECTION.
 8. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
 9. ALL EXTERIOR GROUND CONDUCTORS SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
 10. GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" 10-FT. LONG, AND SHALL BE DRIVEN VERTICALLY WITH THEIR TOPS 48" BELOW FINAL GRADE.
 11. CONNECTIONS TO THE GROUND BUS SHALL NOT BE PERMITTED ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
 12. USE OF 90° BENDS IN THE PROTECTION CONDUITS/CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
 13. MAXIMUM RESISTANCE OF THE COMPLETED GROUNDING SYSTEM SHALL NOT EXCEED 5 OHMS. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE TESTING PROCEDURE FOR FACILITY GROUNDING, USING FALL OF POTENTIAL METHOD.
 14. MATERIALS, GROUNDING WIRE SHALL BE FURNISHED BY T-MOBILE AND INSTALLED BY CONTRACTOR.

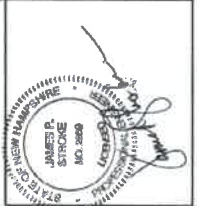
- NOTES:**
1. INSTALL CONDUIT WITH ADEQUATE BEND FOR INSTALLATION TO CABINET ENTRY POINT. TURN OFF AND TAG BREAKERS. TERMINATE CABLE AT DISTRIBUTION PANEL. TYPE ENDS AND COIL AN EXTRA FEET OF CABLE TO BE STORED IN THE PANEL. TERMINATION BY OTHERS. LABEL OR USE DIFFERENT COLOR TAPE AT BOTH ENDS OF EACH CONDUCTOR TO IDENTIFY CIRCUIT AND PHASE.
 2. WHERE PERMITTED, THE PANEL BOARD SERVES AS THE SERVICE ENTRANCE EQUIPMENT. A MANUAL DISCONNECT SWITCH MAY BE OMITTED AS PERMITTED BY THE NATIONAL ELECTRICAL CODE. THE NEUTRAL AND GROUND BARS TOGETHER IN THE PANEL BOARD AND CONNECT TO THE SITE GROUNDING SYSTEM.
 3. INSTALL GROUND CABLE WITH ENOUGH LENGTH TO REACH CABINET(S) AND COIL AN EXTRA 10 FEET FOR TERMINATION BY OTHERS.
 4. BREAKER DISCONNECT MAY BE USED IN PLACE OF FUSED DISCONNECT WHEN CONDITIONS FAVOR USE OF BREAKER (EX. SIZE, COST, ETC.).
 5. INTER CABINET WIRING BY OTHERS.

AC PANEL SCHEDULE

120/240 VOLTS, 1-PHASE, 3-WIRE, 200A W/200A MAIN BRKR			
DESCRIPTION	BRK#	POS#N	L1 L2 POS#N BRK DESCRIPTION
8160 CABINET	100	1	2 SPARE
SPARE	2	2	2 SPARE
SPARE	6	6	6 SPARE
SPARE	7	7	7 SPARE
SPARE	9	10	10 SPARE
SPARE	11	12	12 SPARE
SPARE	13	14	14 SPARE
SPARE	15	16	16 SPARE
SPARE	17	18	18 SPARE
SPARE	19	20	20 LIGHT
TVSS	21	22	22 TELCO FAX (IF REQUIRED)
	23	24	24 RECEPTACLE

- NOTE:**
1. THE PANEL BOARD IS A 18" J-BOXED MODULAR UNIT FOR SERVICE ENTRANCE WITH MANUAL TRANSFER MAIN AND STAND-BY BREAKERS.

SINGLE LINE DIAGRAM & PANEL SCHEDULE
 SCALE: N.T.S.



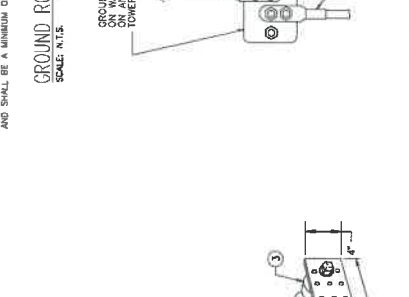
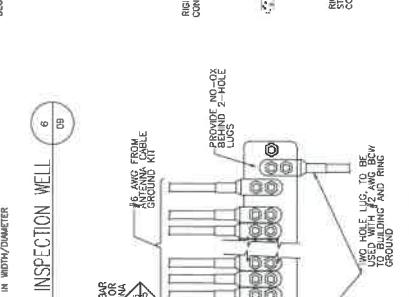
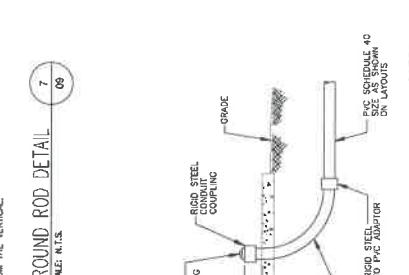
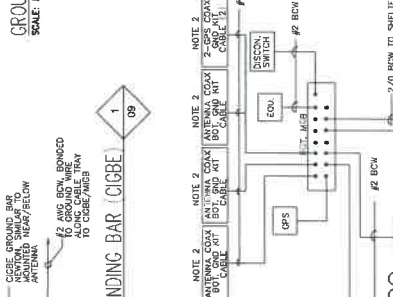
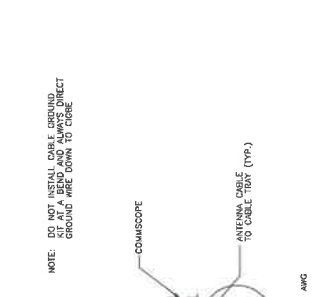
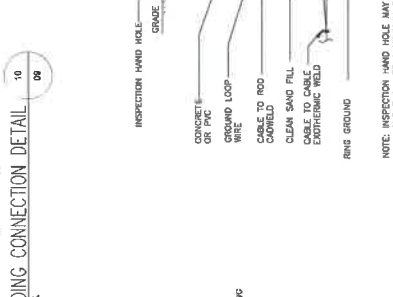
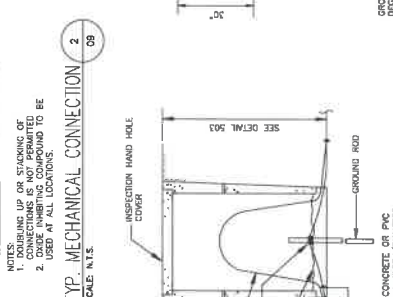
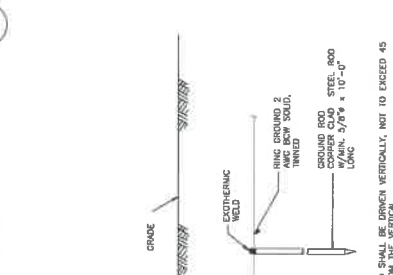
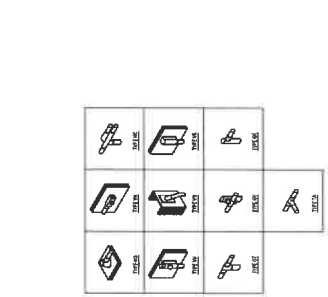
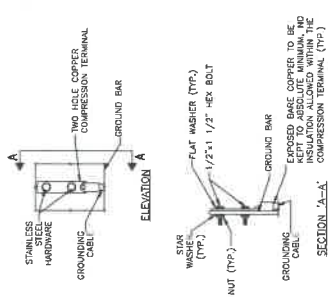
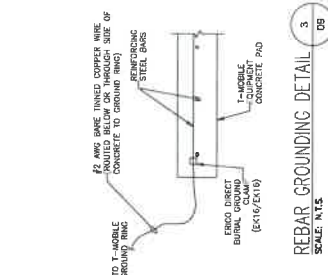
THE CONTRACTOR SHALL VERIFY DESIGN, PROPERTY AND CERTIFICATED WORKING OF T-MOBILE COMMUNICATIONS. ANY MODIFICATION OR USE WITHOUT EXPRESS DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.

SUBMITTALS

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

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

SHEET TITLE: **GROUNDING DETAILS I**
SHEET NUMBER: **09**

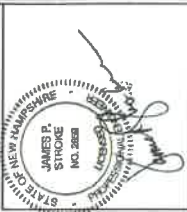


NOTE: DO NOT INSTALL CABLE GROUNDING SUBJECT TO CIGBE. DO NOT INSTALL CABLE GROUNDING SUBJECT TO CIGBE. JUMPER REQUIRED ONLY WHEN 1/4\"/>

ITEM	REQ.	PART NO.	DESCRIPTION
1	1	1/4" x 1/2"	PRE DRILLED END BAR
2	2	A-6006	WALL MTC. BRKT.
3	2	3081-4	INSULATORS
4	2	3012-13	5/8"-11x4" H.H.C.S.
5	4	3015-8	5/8 LOCKWASHER
6	2	3014-8	5/8"-11 HEX NUT

NOTE: 1. END ANTENNA GROUNDING KIT CABLE TO TOP CIGBE. 2. END ANTENNA GROUNDING KIT CABLE TO BOTTOM CIGBE.

NEWTON INSTRUMENT COMPANY, INC.
BUYER, N.C. OR APPROVED EQUAL

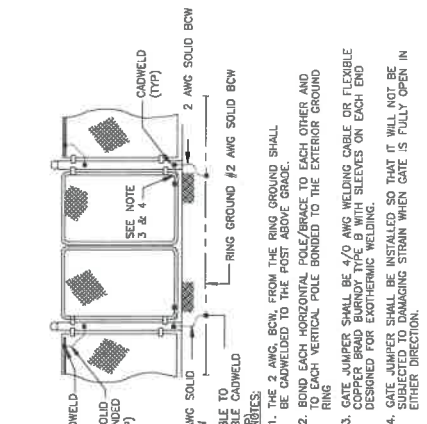


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SUBMITTALS	
NO.	DESCRIPTION
1	10/27/21 ISSUED FOR REVIEW
2	11/17/21 FOR PERMITTING
3	10/29/21 GENERAL REVISIONS
4	10/27/21 ISSUED FOR REVIEW

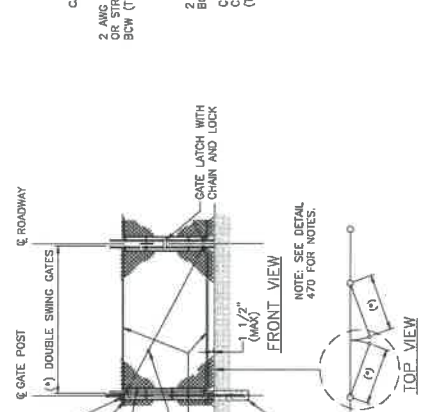
SITE NUMBER: **4KN0346B**
 SITE NAME: **University Systems of NH - RT - Keene**
 SITE ADDRESS: **65 APPIAN WAY, KEENE, NH 03431**
 SHEET TITLE: **FENCE DETAILS 1**

SHEET NUMBER: **10**

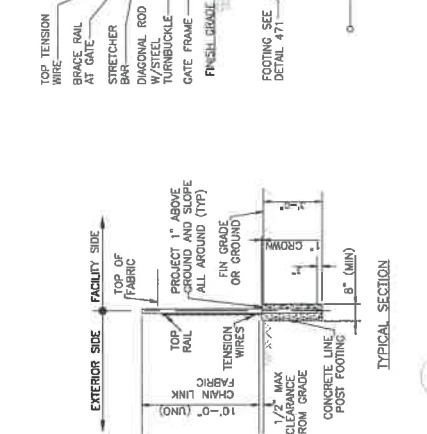


WOVEN WIRE FENCE GATE GROUNDING
 SCALE: N.T.S.

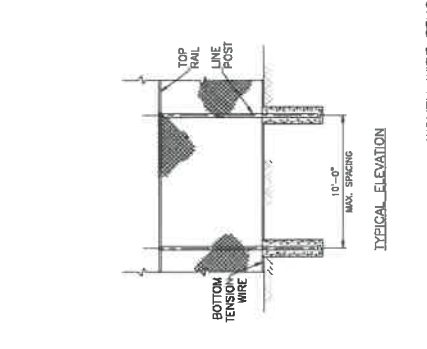
1. THE 2 AWG, BCW, FROM THE RING GROUND SHALL BE CADWELDED TO THE POST ABOVE GRADE.
2. BOND EACH HORIZONTAL POLE/BRACE TO EACH OTHER AND TO EACH VERTICAL POLE BONDED TO THE EXTERIOR GROUND RING.
3. GATE JUMPER SHALL BE 4/0 AWG WELDING CABLE OR FLEXIBLE SLEEVES ON EACH END DESIGNED FOR EXOTHERMIC WELDING.
4. GATE JUMPER SHALL BE INSTALLED SO THAT IT WILL NOT BE SUBJECTED TO DAMAGING STRAIN WHEN GATE IS FULLY OPEN IN EITHER DIRECTION.



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



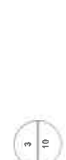
WOVEN WIRE FENCE
 SCALE: N.T.S.



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



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



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



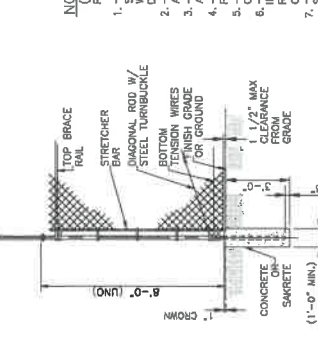
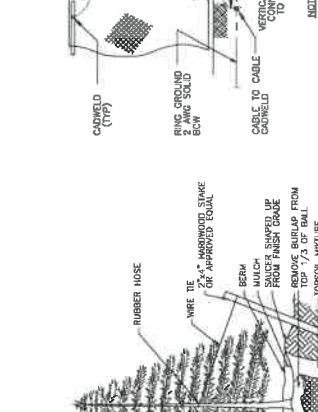
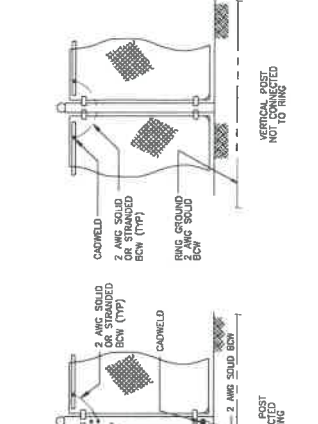
WOVEN WIRE FENCE SWING GATE, DOUBLE
 SCALE: N.T.S.



WOVEN WIRE FENCE
 SCALE: N.T.S.



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



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.

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

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.

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



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.

SECTION 106 CONSULTATION

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.