

# APPLICATION FOR BUILDING PERMIT

## Town of Machias, Maine

Building Permit request for:  
 New Construction  
 Expansion Alteration  
 Moving of Building  
 Reconstruction / Replacement  
 Conversion to another or different use

Date application received at Town Office: 12/17/24 Fee Paid \$ 52.50  
 Recipients Initials: SGP

Name of Applicant: T-Mobile Northeast, LLC  
 (or Agent)

Address of Applicant: 15 Commerce Way, Norton, MA, 02766 c/o Alex Giannaras @

Smartlink, 700 Center St, W Bridgewater, MA 02379 Telephone: 781-552-1098

Address of Building(s): 116 Stackpole Drive, Machias, ME

Map 6A Lot #16

Proposed Use: (Describe briefly use of structure such as nature of business or residence, single or multi-family)  
T-Mobile to install antennas on the existing tower; install radio equipment cabinets and back-up generator on concrete pad at grade, within existing compound.

Indicate what other structures are located on the same lot and the uses:

(Refer to Town of Machias Building Permit Ordinance 01/26/1989 in answering all applicable sections below.)

1.  Yes  No A waiver or variance is requested. (Attach separate sheet stating the request and reasons why you believe they should be allowed.)
2.  Yes  No A copy of the applicable town tax map showing lot location is attached.
3.  Yes  No The property is connected to the Machias Water Co. supply or can be connected. If the property is not, or cannot be connected to the Machias Water Co. supply, water will be provided by:  
 Well  Spring  Other \_\_\_\_\_
4.  Yes  No The property is connected to Town of Machias sewer system or can be connected. Attach a copy of the Sewer Entrance Permit and include the location of the connection on the site plan if the project is to be connected to the Town of Machias sewer system.
5.  Yes  No A soil test has been conducted for installation of a septic system for sewage disposal.  
 (Attach a copy of test document and diagram of the recommended septic location.)
6.  Yes  No A site plan showing all items listed in section 4A(3) of Machias Building Permit Ordinance is attached. The site plan should reflect the dimensions of the lot on which construction is to be undertaken specifically to include the road frontage measurement. The plan should also include setback distances for the proposed construction from each boundary and from the public road or private access road.
7.  Yes  No A copy of the deed, lease, purchase and sales agreement, or other evidence of ownership or control of the real estate is attached.
8.  Yes  No Will surface water drainage adversely affect any neighboring properties?
9.  Yes  No Will lighting reflect beyond lot lines or cause annoyance to neighboring properties?
10.  Yes  No Lot has a minimum of at least 100 feet of frontage on a town road or deeded private way.
11.  Yes  No The building lot is at least 15,000 square feet in size or larger.
12.  Yes  No The building setback will be at least 35 feet from the front of the lot.
13.  Yes  No Side and rear distances from the lot lines are at least 15 feet to proposed building.
14.  Yes  No The proposed structure will be no more than 50 feet above ground level, including chimneys, stacks or other protrusions that are part of the structure.
15.  Yes  No There will be safe vehicular entrance and exit to public or private roads that border the lot. (Indicate vehicle driveway on site plan.)
16.  Yes  No Will the proposed activity involve the installation or change of use of a driveway providing access to a state highway? If so, an entrance permit from the Department of Transportation must be obtained prior to any issuance of permits and attached to this application.

17. There will be \_\_\_\_\_ off street parking spaces as shown in site plan.

18. Commercial, industrial, and residential structures are required to comply with certain federal and/or state minimum standards and regulations. By initialing the items set forth below, the applicant is acknowledging awareness of, and compliance with, any applicable federal and state regulations and has attached copies of all approved permits that may be required. Indicate below which items apply to this building permit application and certify compliance by initialing the appropriate below:

Water Supply	_____	Water Pollution	_____	Flood Hazard Development Permit	_____
Air Pollution	_____	Soil Erosion	_____	Maine DOT Entrance Permit	_____
Shoreland Zoning	_____	Surface Drainage	_____	Sewer Connection Permit	_____
Sewage Pollution	_____	Noise Level	_____	Natural Resources Protection Act Permit	_____
Other	_____				

19. Estimated cost of proposed building or structure(s): \$ 75,000.00

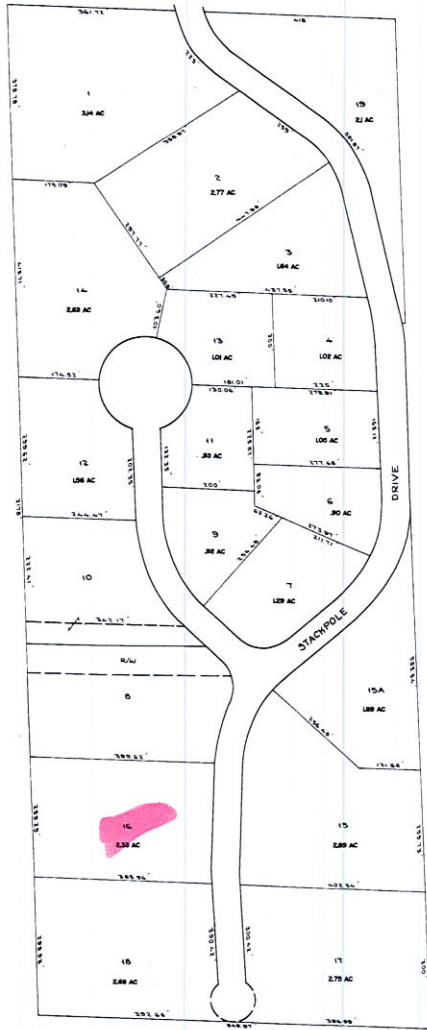
20. Name, address and telephone number of contractor or builder: Sheldon Jones, Project Director, Wireless Construction, Inc., 40 Blake Rd., Standish, ME 04084

21. I have read and understand the Town of Machias Building Permit Ordinance and hereby make application for a permit based on the information contained above and request the Planning Board to act on this application at its next scheduled monthly meeting.

Signature of Applicant: [Signature] alex.giannaras@smartlinkgroup.com

NOTE: Although not required, it is recommended that the applicant, or a duly appointed representative attend the meeting at which the application for a Building Permit is to be considered.

For Planning Board use:  
 Building Permit:  Approved  Denied By the Planning Board on (Date): \_\_\_\_\_  
 Authorized Planning Board Signature: \_\_\_\_\_



LEGEND  
PANEL NUMBERS ..... 1  
ADJACENT MAPS ..... 2  
MATCH LINE .....

For Assessment Purposes  
Not to be used for Conveyance

PROPERTY MAP  
TOWN OF MACHIAS  
WASHINGTON COUNTY, MAINE  
PREPARED BY  
JAMES W. SEWALL COMPANY OLD TOWN, MAINE  
SCALE 1 INCH = 100 FEET



T-Mobile Northeast LLC, a subsidiary of T-Mobile USA, Inc.

New England Market

November 12<sup>th</sup>, 2024

Planning Board  
Town of Machias, ME  
17 Stackpole Drive  
Machias, ME 04654

**Re:** Building Permit Application and Section 6409 Eligible Facilities Request  
**Applicant:** T-Mobile Northeast LLC ("T-Mobile")

Dear Planning Board:

Smartlink, for T-Mobile Northeast LLC, is submitting this Building Permit application and Section 6409 Eligible Facilities Request to modify ground equipment within the leased premises at an existing wireless Base Station located at **116 Stackpole Drive, Machias, ME 04654**.

**A. Section 6409 Eligible Facilities Request being filed with the Building Permit**

The Section 6409 Eligible Facilities Request accompanies this Building Permit Application because the Town of West Bridgewater has not yet developed an Eligible Facilities request permit application form that complies with Section 6409 of the Middle Class Tax Relief and Job Creation Act of 2012, commonly known as the "Spectrum Act", or ("Section 6409") (Pub. Law No. 112-96, 126 Stat 156) (codified at 47 U.S.C. § 1455).

Section 6409 mandates that state and local governments "*may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station.*" Under Section 6409(a)(2)(A)-(C) an Eligible Facilities Request is any request to modify a Tower or Base Station that involves "collocations of new Transmission Equipment, "removal," or "replacement" of Transmission Equipment.

**B. Why this Eligible Facilities Request Must Be Granted**

1. The existing facility is a Base Station.

T-Mobile, a Federal Communications Commission ("FCC") licensed wireless carrier, submitted this Eligible Facilities Request to add a backup power generator at this existing Base Station. The FCC defines Base Station as "the equipment and non-tower supporting structure at a fixed location that enables Commission-licensed or authorized wireless communications between the user equipment and a communications network . . . the term includes equipment associated with wireless communications service including, but not limited to, radio transceivers, antennas, coaxial or fiber-optic cable, regular and backup power supply, and comparable equipment." The term "existing base station" also includes a structure that currently houses or supports an antenna, transceiver or other associated equipment that constitutes part of a Base Station even if the structure was not built solely or primarily to provide such support.



T-Mobile Northeast LLC, a subsidiary of T-Mobile USA, Inc.

New England Market

The existing Base Station in this application is two-hundred thirty (230) feet high and presently contains wireless facilities and Transmission Equipment. Therefore, the existing Base Station meets the FCC definition of a Base Station.

2. The Application's equipment is considered Transmission Equipment.

The list of equipment identified in the Eligible Facilities Request application is considered Transmission Equipment as determined by the FCC. The FCC defines Transmission Equipment as "any equipment that facilitates transmission for any Commission-licensed or authorized wireless communication service, including, but not limited to, radio transceivers, antennas and other relevant equipment associated with and necessary to their operation, including coaxial or fiber-optic cable, and regular and back-up power supply. This definition includes equipment used in any technological configuration associated with any Commission-authorized wireless transmission; licensed or unlicensed, terrestrial or satellite, including commercial mobile, private mobile, broadcast and public safety services, as well as fixed wireless services such as microwave backhaul or fixed broadband."

3. The Base Station will not be Substantially Changed.

In a Report and Order adopted on October 17, 2014, the FCC determined that any modification to an existing telecommunications Base Station that meets the following six (6) criteria does not substantially change the physical dimensions of the existing Base Station and therefore is an Eligible Facilities Request which must be granted. Attached herewith please find a certification that identifies how each of the below six (6) criteria are met and therefore no substantial change is proposed.

- a. The modifications to the Transmission Equipment do not increase the height of the Base Station by more than 10 percent (10%) or ten (10) feet, whichever is greater.
- b. The modifications to the Transmission Equipment do not protrude from the edge of the support structure by more than twenty (20) feet.
- c. The modifications to the Transmission Equipment do not involve the installation of more than the standard number of equipment cabinets for the technology involved, not to exceed four.
- d. The modifications to the Transmission Equipment do not entail any excavation or deployment outside of the Base Station site.
- e. The modifications to the Transmission Equipment do not defeat any existing concealed or stealth-design.
- f. The modifications to the Transmission Equipment complies with prior conditions of approval of the Base Station, unless the non-compliance is due to an increase in height, increase in width, addition of equipment cabinets, or new excavation that does not exceed the corresponding "substantial change" thresholds in numbers 1-4.

The modifications to the Transmission Equipment at the Base Station located at **116 Stackpole Drive, Machias, ME 04654**, contained in this Eligible Facilities Request fully conform to Section 6409 as enacted by Congress and as interpreted by the FCC, as more specifically articulated in the Eligible Facilities Request Certification, attached herewith. Accordingly, this Eligible Facilities Request must be approved within sixty (60) days, as required by federal law and FCC implementing regulations.



T-Mobile Northeast LLC, a subsidiary of T-Mobile USA, Inc.

New England Market

**C. Notice of Federal Law Expedited Permit Processing and Deemed Granted**

An Eligible Facilities Request is deemed granted sixty (60) days after a complete application is filed with a local jurisdiction. If sixty (60) days pass after the submission of T-Mobile's Building Permit Application and Eligible Facilities Request and the Town of West Bridgewater has not acted to grant or deny the request, it will be deemed granted. At that time, T-Mobile may advise the Town of West Bridgewater that the application has been deemed granted. If the Town of West Bridgewater wishes to contest whether the Eligible Facilities Request has been deemed granted, the burden is on the Town of West Bridgewater to file a lawsuit in a court of competent jurisdiction within 30 days after receipt of a written communication notifying it that the Eligible Facilities Request has been deemed granted. Failure to file a lawsuit in a timely manner may forever bar this jurisdiction from contesting that this Eligible Facilities Request has been deemed granted.

T-Mobile is committed to working cooperatively with you, and all jurisdictions around the country, to secure expeditious approval of requests to modify existing personal wireless service facilities.

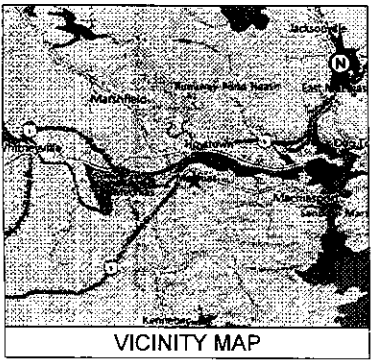
Please do not hesitate to contact me if you have questions.

Sincerely,

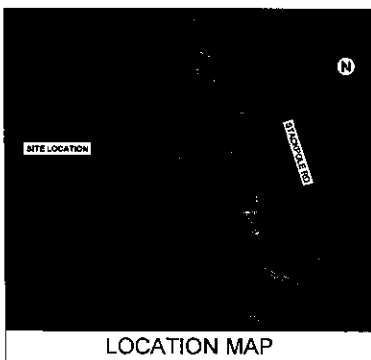


700 West Center Street  
Suite 12  
West Bridgewater, MA 02376

Alex Giannaras  
Real Estate Specialist II  
[alex.giannaras@smartlinkgroup.com](mailto:alex.giannaras@smartlinkgroup.com)  
c. 781-552-1098  
[www.smartlinkgroup.com](http://www.smartlinkgroup.com)



ATC SITE NAME: MACHIAS 2  
 ATC SITE NUMBER: 207952  
 T-MOBILE SITE NAME: 4BG1430A\_ATC 207952\_SST\_MACHIAS  
 T-MOBILE SITE NUMBER: 4BG1430A  
 SITE ADDRESS: 116 STACKPOLE DRIVE  
 MACHIAS, ME 04854  
 SITE CLASS: SELF SUPPORT



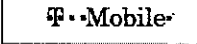
THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISSEMINATION OF THESE DRAWINGS TO ANY OTHER PARTY WITHOUT THE WRITTEN PERMISSION OF AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. WHETHER THE ARCHITECT OR THE ENGINEER SHALL BE PROVIDING QUALITY CONTROL AND/OR INSPECTION OF THE PROJECT CONTRACTORS MUST VERIFY ALL DIMENSIONS AND ASSESS AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR EDITIONS OF THESE DRAWINGS ARE SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	HEJ	11/01/24

T-MOBILE COVERAGE STRATEGY COLLOCATION PLAN  
 67E5D998E 6160 CONFIGURATION

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
			SHEET NO	DESCRIPTION	REV	DATE	BY
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.  2015 IBC NATIONAL ELECTRICAL CODE (NFPA 70, NEC 2020 W/ AMEND) 2015 MINE MECHANICAL CODE (MCC 2015 W/ AMEND) 2021 UNIFORM PLUMBING CODE (UPC 2021 W/ AMEND) 2015 MAINE ENERGY CODE (MEC 2015 W/ AMEND) FIRE CODE (NFPA 1, 2015 W/ AMEND) MAINE UNIFORM BUILDING AND ENERGY CODE (MUBEC) 2015 MAINE RESIDENTIAL CODE (MRC 2015 W/ AMEND)	<b>SITE ADDRESS</b> 116 STACKPOLE DRIVE MACHIAS, ME 04854 COUNTY: WASHINGTON  <b>GEOGRAPHIC COORDINATES</b> LATITUDE: 44°11'28.82" N LONGITUDE: -67°45'29.355" W GROUND ELEVATION: 131' AMSL	THE PROPOSED PROJECT INCLUDES INSTALLING EQUIPMENT CABINETS AND A GENERATOR ON A PROPOSED CONCRETE PAD INSIDE A 10' x 15' GROUND SPACE WITHIN THE EXISTING CONCRETE AND INSTALLING NEW EQUIPMENT AND MOUNTS ON THE EXISTING TOWER.  <b>TOWER SCOPE</b> INSTALL MOUNT MODIFICATIONS: (2) BECTOR FRAME(S), (6) ANTENNA(S), (9) RRW(S), AND (2) 2.0" ERICSSON HYBRID TRUNK CABLE(S)  <b>GROUND SCOPE</b> INSTALL: (3) CONCRETE PAD, (1) CANOPY, (1) ISB BRIDGE, (1) GPS ANTENNA, (1) GENERATOR, UNSTRUCTURED: (1) ATS, (1) PFC, (1) AAV CABINET, (6) LED WORK LIGHT(S), (1) LIGHT SWITCH/TIMER, (1) ENCLOSURE 6160 CABINET, AND (1) 6160 BATTERY CABINET	G-001	TITLE SHEET	0	11/01/24	HEJ
	<b>PROJECT TEAM</b>  <b>ENGINEER</b> ATC TOWER SERVICES, LLC 1 FENTON MAN, STE 300 CARY, NC 27511  <b>PROPERTY OWNER</b> MACHIAS TOWN DP 116 STACKPOLE DRIVE MACHIAS, ME 04854	<b>PROJECT NOTES</b> 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED. 6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1453(A) AS A MODIFICATION OF AN EXISTING UNLICENSED TOWER THAT INCLUDES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.81000 (B)(7).	<b>PROJECT LOCATION DIRECTIONS</b>  HEAD NORTHEAST ON DOUBLIN ST TOWARD LIBERTY LN TURN RIGHT ONTO AMES AVE AMES AVE TURNS RIGHT AND BECOMES ME-62 EVELM ST TURN RIGHT ONTO STACKPOLE RD TURN RIGHT TO STAY ON STACKPOLE RD	G-002	GENERAL NOTES	0	11/01/24
<b>UTILITY COMPANIES</b>  POWER COMPANY: GEMMA MAINE PHONE: (603) 303-2111  TELEPHONE COMPANY: UNKNOWN PHONE: N/A	<b>APPLICANT</b> T-MOBILE		G-101	DETAILED SITE PLAN	0	11/01/24	HEJ
			G-102	DETAILED EQUIPMENT PLAN	0	11/01/24	HEJ
			C-201	TOWER ELEVATION	0	11/01/24	HEJ
			C-401	ANTENNA INFORMATION & SCHEDULE	0	11/01/24	HEJ
			G-501	MOUNT DETAILS	0	11/01/24	HEJ
			G-601	CONSTRUCTION DETAILS	0	11/01/24	HEJ
			C-301	CONSTRUCTION DETAILS	0	11/01/24	HEJ
			C-304	CONSTRUCTION DETAILS	0	11/01/24	HEJ
			E-101	GROUNDING PLAN AND NOTES	0	11/01/24	HEJ
			E-501	GROUNDING DETAILS	0	11/01/24	HEJ
			E-601	PANEL SCHEDULE & ONE-LINE DIAGRAM	0	11/01/24	HEJ
				SUPPLEMENTAL SHEETS (13 PAGES)			

ATC SITE NUMBER: 207952  
 ATC SITE NAME: MACHIAS 2  
 T-MOBILE SITE NAME: 4BG1430A\_ATC  
 207952\_SST\_MACHIAS  
 SITE ADDRESS: 116 STACKPOLE DRIVE  
 MACHIAS, ME 04854



ATC PROJ # 1400133\_02  
 CUST. ID 4BG1430A\_ATC 207952\_SST\_MACHIAS  
 CUST. # 4601430A

TITLE SHEET  
 SHEET NUMBER: G-001  
 REVISION: 0



LOCUS

LOCATION MAP  
(NOT TO SCALE)

AREA TABLE	SQUARE FEET	ACRES
20	166,956	3.80

OWNER: FISONS TOWERS, LLC, A MAINE LIMITED LIABILITY COMPANY  
 TAX PARCEL ID #: SA-14  
 DEED REFERENCE: BOOK 4073 PAGE 175  
 WASHINGTON COUNTY REGISTRY OF DEEDS

PLAN REFERENCES:  
 MACHIAS INDUSTRIAL PARK, MACHIAS, MAINE, DATED 1979,  
 PREPARED BY WRIGHT-PRIED-GRINING-WYMAN ENGINEERS AND  
 RECORDED AT THE WASHINGTON COUNTY REGISTRY OF DEEDS IN  
 MAP BOOK 18, PAGE 36  
 MACHIAS INDUSTRIAL PARK, MACHIAS, MAINE, REVISED IN 1977,  
 PREPARED BY UNKNOWN, AND RECORDED AT WASHINGTON  
 COUNTY REGISTRY OF DEEDS, N HANGER 1, SHEET 20

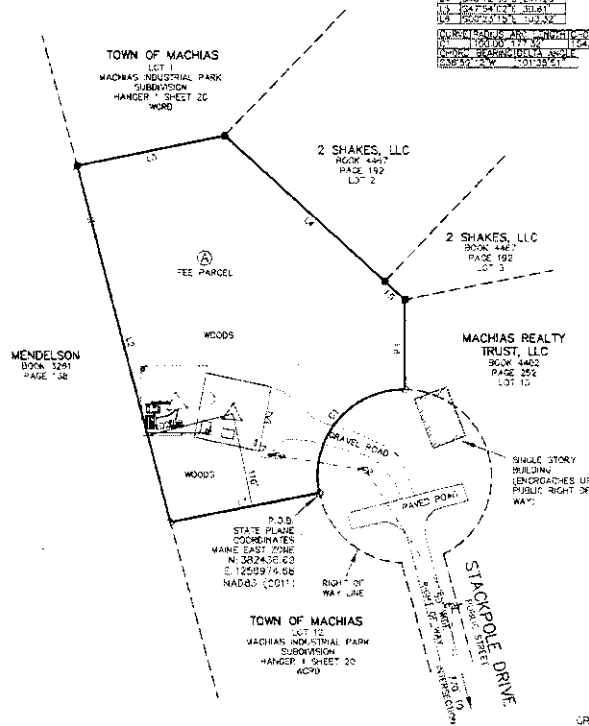
LEGEND

- FENCE FOUND
- OVER HEAD UTILITY LINES
- WOOD UTILITY POLE
- PIPE FOUND
- CAPPED HUBS REBAR SET
- P.O.B. POINT OF BEGINNING

**FLOOD NOTE:**  
 ACCORDING TO THE NATIONAL FLOOD INSURANCE RATE MAP COMMUNITY NUMBER 220140, PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY AND WITH AN EFFECTIVE DATE OF JULY 18, 2017, THIS SITE IS LOCATED IN ZONE "X" (AREAS OF MINOR FLOOD HAZARD), TO THE BEST OF MY KNOWLEDGE AND BELIEF. THE SURVEYOR UTILIZED THE ABOVE REFERENCED FLOODPLAIN RATE MAP FOR THIS DETERMINATION. FURTHERMORE, THE SURVEYOR DOES NOT CERTIFY THAT REVERSED FLOODPLAIN INFORMATION HAS NOT BEEN PUBLISHED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY OR SOME OTHER SOURCE.

LINE AND CURVE TABLE

LINE NUMBER	DESCRIPTION	LENGTH
1	LINE 1	100.00
2	LINE 2	100.00
3	LINE 3	100.00
4	LINE 4	100.00
5	LINE 5	100.00
6	LINE 6	100.00
7	LINE 7	100.00
8	LINE 8	100.00
9	LINE 9	100.00
10	LINE 10	100.00
11	LINE 11	100.00
12	LINE 12	100.00
13	LINE 13	100.00
14	LINE 14	100.00
15	LINE 15	100.00
16	LINE 16	100.00
17	LINE 17	100.00
18	LINE 18	100.00
19	LINE 19	100.00
20	LINE 20	100.00



AS-BUILT/BOUNDARY SURVEY  
110 STACKPOLE DRIVE, MACHIAS, MAINE 04854  
WASHINGTON COUNTY  
TOP: FISONS TOWERS, LLC  
48034

SURVEYOR'S NOTES

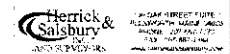
1. BASIS OF BEARING: GRID NORTH; MAINE EAST ZONE, NAD83 (2011).
2. NO SUBSURFACE INVESTIGATION WAS PERFORMED TO LOCATE UNDEGROUND UTILITIES. UTILITIES SHOWN HEREON ARE LIMITED TO AND ARE PER OBSERVED EVIDENCE ONLY.
3. THIS SURVEY DOES NOT REPRESENT A BOUNDARY SURVEY OF THE FEE PARCEL.
4. ALL VISIBLE TOWER EQUIPMENT AND INSTRUMENTS ARE OBTAINED WITHIN THE REFERRED AREA CONTAINING 20,000 SQUARE FEET.
5. CURRENT DEED DESCRIPTION DOES NOT CLOSE GEOMETRICALLY. CORRECTIVE DEED IS RECOMMENDED.
6. THE FEE PARCEL HAD DIRECT ACCESS TO PUBLIC RIGHT OF WAY STACKPOLE DRIVE.



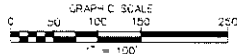
HERICK & SALSURY, INC.  
 Digitally signed by  
**Stephen R. Salsbury**  
 Date: 2023.05.04 11:35:47 -0400  
 STEPHEN R. SALSURY  
 LAND SURVEYOR - MAINE # 2202  
 DATE OF SURVEY: MAY 4, 2023  
 DATE OF LAST REVISION: AUGUST 2, 2023  
 ENCLOSURE INCLUDES SHEETS 1-4

PROJECT SITE NAME: MACHIAS 2  
 MACHIAS, WASHINGTON COUNTY, MAINE

SURVEY WORK PERFORMED BY:



NATIONAL SURVEY SERVICES COORDINATION BY:  
**GEOLINE SURVEYING, INC.**





**SITE PLAN NOTES:**

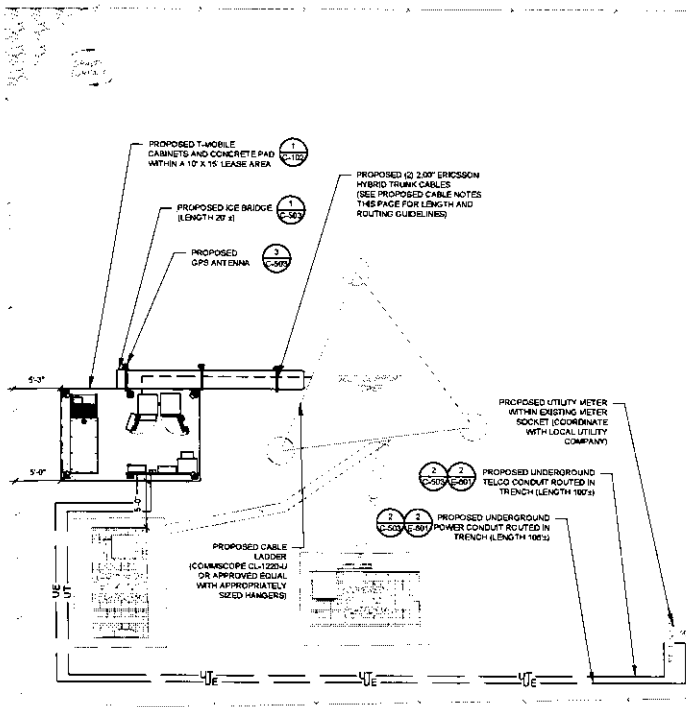
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND CDAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN BEFORE UTILIZING EXISTING CABLE SUPPORTS. CDAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT. CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE TOWER REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.

**LEGEND**

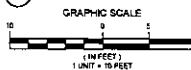
- ⊙ GROUNDING TEST WELL
- ATS AUTOMATIC TRANSFER SWITCH
- ⊖ BOLLARD
- CSG CELL SITE CABINET
- D DISCONNECT
- E ELECTRICAL
- F FIBER
- G GENERATOR
- GEN GENERATOR RECEPTACLE
- HH V HAND HOLE VAULT
- IB ICE BRIDGE
- K KENTREX BOX
- LC LIGHTING CONTROL
- M METER
- PS PULL BOX
- PP POWER POLE
- T TELCO
- TRN TRANSFORMER
- CHNLW FENCE

**PROPOSED CABLE NOTES:**

1. ESTIMATED LENGTH OF PROPOSED CABLE IS SHOWN. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE ROAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ADJ. THE ICE BRIDGE) AND A SAFETY FACTOR OF MEASUREMENT OF 15% OF THE TWO PREVIOUS VALUES. CDS DEFER TO GREATEST CABLE LENGTH.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO IMMEDIATELY SECURE CABLES. USING EITHER APPROPRIATELY SIZED STAINLESS STEEL BRACKETS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEGS).



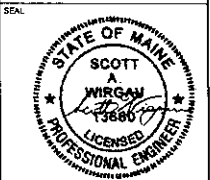
**1 DETAILED SITE PLAN**



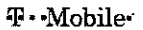
THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR REUSE OF THESE DRAWINGS FOR ANY OTHER PROJECT IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER SHALL BE RESPONSIBLE FOR THE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED OWNER OF ANY DISCREPANCIES. ANY FROM ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	HED	11/01/24

ATC SITE NUMBER: 207952  
 ATC SITE NAME: MACHIAS 2  
 TOWER SITE NAME: 48G1430A\_ATC  
 207952\_SST\_MACHIAS  
 SITE ADDRESS: 116 STACKPOLE DRIVE MACHIAS, ME 04954



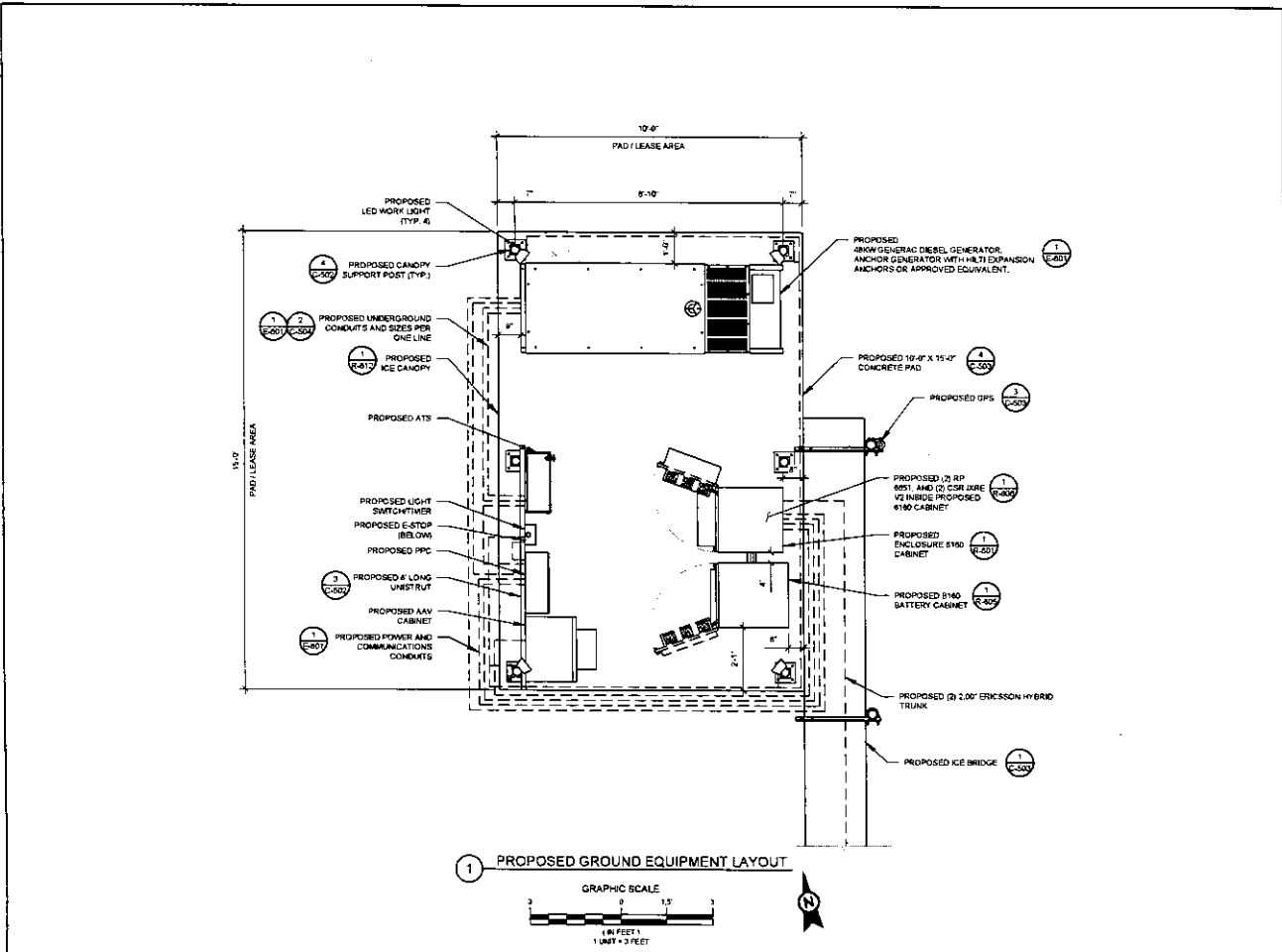
Digitally Signed: 2024-11-14




ATC PROJ. #: 14800133\_02  
 CUST. ID: 48G1430A\_ATC\_207952\_SST\_MACHIAS  
 CUST. #: 148G1430A

**DETAILED SITE PLAN**

SHEET NUMBER: C-101  
 REVISION: 0






**AMERICAN TOWER**  
 ATC TOWER SERVICES, LLC  
 1 FENTON MAIN  
 SUITE 300  
 CARY, NC 27511  
 PHONE (919) 488-0112

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDED WITH A CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTORS MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY FURTHER ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.


REV	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	HEB	11/09/24

ATC SITE NUMBER: 207952  
 ATC SITE NAME: MACHIAS 2  
 MOBILE SITE NAME: 4831430A\_ATC  
 207952\_SST\_MACHIAS  
 SITE ADDRESS: 115 STADKPOLE DRIVE MACHIAS, ME 04654

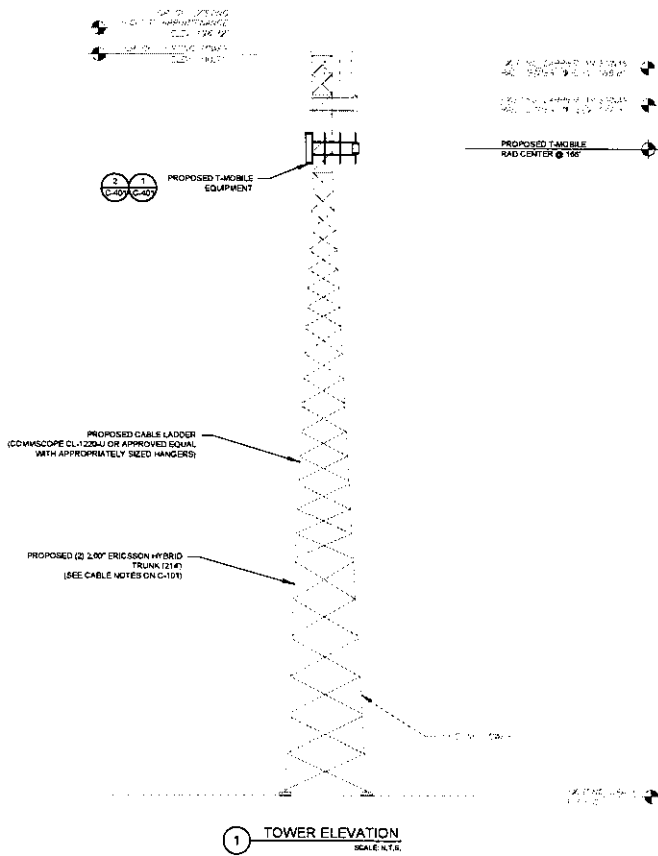


SCOTT A. WIGAN  
 11886  
 LICENSED PROFESSIONAL ENGINEER

Digitally Signed: 2024-11-14



ATC PROJ. # 14800133_02
CUST. ID: 4801430A_ATC_207952_SST_MACHIAS
CUST. # 4801430A
<b>DETAILED EQUIPMENT PLAN</b>
SHEET NUMBER: C-102
REVISION: 0



PER MOUNT ANALYSIS COMPLETED BY ATC DATED 10/06/24, THE PROPOSED MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

ALL ELEVATIONS REFLECT ABOVE GROUND LEVEL (A.D.L.)

- TOWER NOTE**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
  - WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT MOUNTS, CABLING, ETC. SHALL BE DIMENSIONED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
  - ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE, UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAPRINGS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEGS).
  - TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.

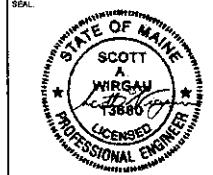
1 TOWER ELEVATION  
SCALE: N.T.S.



THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED, WHETHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTORS MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	HEJ	11/25/24

ATC SITE NUMBER  
207952  
ATC SITE NAME  
MACHIAS 2  
TOWER SITE NAME  
4BG1430A\_ATC  
207952\_SST\_MACHIAS  
SITE ADDRESS  
118 STACKPOLE DRIVE  
MACHIAS, ME 04954

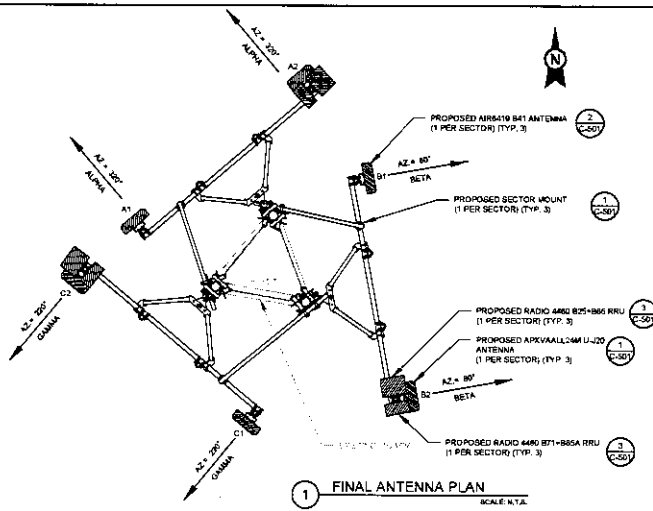


Digitally Signed 2024-11-14

ATC PROJ. # 14006103\_02  
CUST. ID 14BG1430A\_ATC 207952\_SST\_MACHIAS  
CUST. # 14BG1430A

TOWER ELEVATION  
SHEET NUMBER: C-201  
REVISION: 0





PER MOUNT ANALYSIS COMPLETED BY ATC, DATED 1/26/09. THE PROPOSED MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

1 FINAL ANTENNA PLAN  
SCALE N.T.S.

FINAL ANTENNA COAX SCHEDULE						
SECTOR	ANT.	MODEL #	RAD CENTER	AZIMUTH	ADDITIONAL TOWER MOUNTED EQUIPMENT	CABLE DESCRIPTION
ALPHA	A1	AIR 8419 B41	155'	330°	RADIO 4480 871+885 RADIO 4480 825+886	(2) 2.00" ERICSSON HYBRID TRUNK (BNC)
	A2	APRYVALL2M4UJ20				
BETA	B1	AIR 8419 B41		80°		
	B2	APRYVALL2M4UJ20				
GAMMA	C1	AIR 8419 B41		220°		
	C2	APRYVALL2M4UJ20				

1. GC TO VERIFY THE FINAL RFDS MATCHES THE FINAL CONSTRUCTION DRAWINGS. GC TO NOTIFY ATC PM OF ANY DISCREPANCY PRIOR TO INSTALLING THE EQUIPMENT.  
2. GC TO CAP ALL UNUSED PORTS.  
3. GC TO CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

2 ANTENNA SCHEDULE

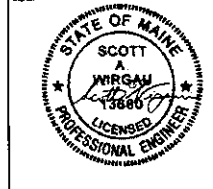
RF JUMPER LENGTH	MONOPOLE = 15'
	GUYED / SELF SUPPORT = RACE WIDTH + 15'
REFER TO FINAL RFDS FOR TYPE AND QUANTITY	



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REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	HEB	1/26/09

ATC SITE NUMBER: 207952  
ATC SITE NAME: MACHIAS 2  
T-MOBILE SITE NAME: 48G1430A\_ATC  
207952\_SST\_MACHIAS  
SITE ADDRESS: 116 STACKPOLE DRIVE MACHIAS, ME 04954



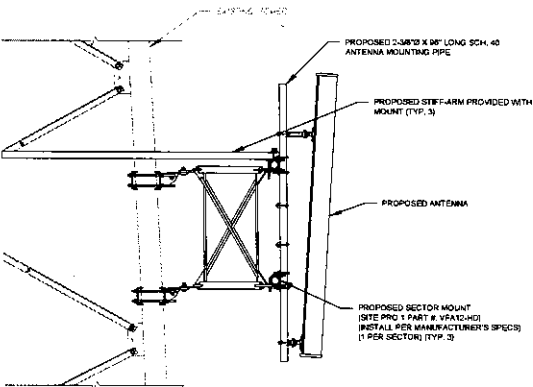
Digitaly Signed: 2524-11-04



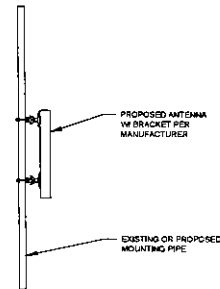
ATC PROJ. #	14800133_02
CUST. ID	48G1430A_ATC_207952_SST_MACHIAS
CUST. #	48G1430A

ANTENNA INFORMATION & SCHEDULE

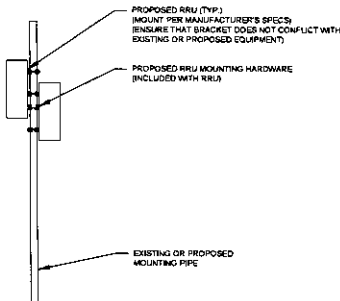
SHEET NUMBER	REVISION
C-401	0



1 PROPOSED ANTENNA MOUNTING DETAIL (ELEVATION)  
SCALE: NOT TO SCALE



2 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL  
SCALE: 4:1/8"



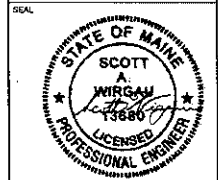
3 PROPOSED RRU MOUNTING DETAIL - TYPICAL  
SCALE: 4:1/8"



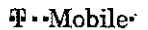
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REV	DESCRIPTION	BY	DATE
△	FOR CONSTRUCTION	HER	11/01/24
△			
△			
△			

ATC SITE NUMBER  
207952  
ATC SITE NAME  
MACHIAS 2  
T-MOBILE SITE NAME  
4BG1430A\_ATC  
207952\_SST\_MACHIAS  
SITE ADDRESS  
118 STACKPOLE DRIVE  
MACHIAS, ME 04854



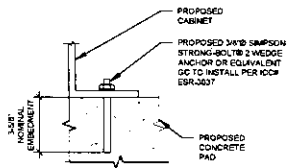
Digitally Signed: 2024-11-04



ATC PROJ. # 1480115\_02  
CUST. ID 1480115A\_ATC 207952\_SST\_MACHIAS  
CUST. # 14801430A

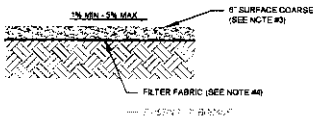
MOUNT DETAILS

SHEET NUMBER	REVISION
C-501	0



**NOTE**  
 INSTALL SIMPSON STRONG-TIE® STRONG-BOLTS 2 WEDGE ANCHORS STRICTLY PER INSTALLATION INSTRUCTIONS INCLUDED WITH PRODUCT OR FOUND ONLINE AT WWW.STRONGTIE.COM. PROPER INSTALLATION IS CRITICAL FOR FULL PERFORMANCE.

**1 CABINET ATTACHMENT DETAIL**  
 SCALE: N.T.S.



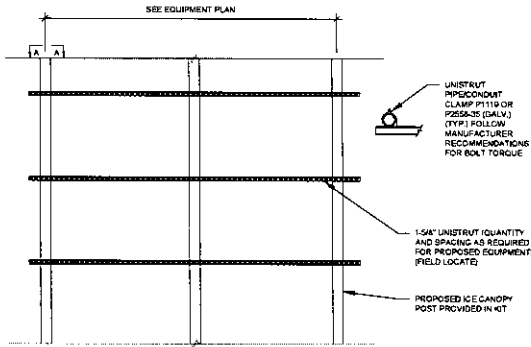
**NOTES**

- CONTRACTOR TO CONTACT ALL UTILITIES FOR LOCATION OF UNDERGROUND SERVICES. SERVICE LOCATIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION.
- REMOVE ALL UNSUITABLE OR DELETERIOUS MATERIAL AS REQUIRED. COMPACT UNDERLYING SOIL TO 90% OF MAXIMUM DENSITY. REPLACE REMOVED SOIL WITH 1\"/>

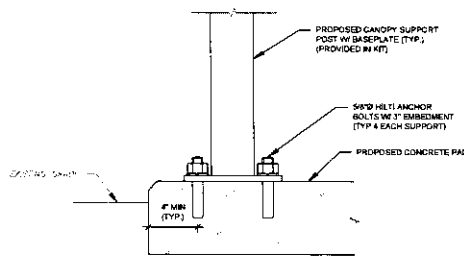
**2 COMPOUND CROSS SECTION**  
 SCALE: N.T.S.

**H-FRAME NOTES**

- IF IT IS NECESSARY TO EXTEND THE H-FRAME, AN ADDITIONAL POST WILL ALWAYS BE REQUIRED.
- PROPOSED UNISTRUTS TO BE FIELD CUT AND SHOULD NOT EXTEND MORE THAN 9 INCHES BEYOND THE LAST POST.
- SPRAY ENDS OF UNISTRUT WITH COLD GALVANIZING SPRAY PAINT. ALLOW TO DRY, THEN COVER WITH RUBBER PROTECTIVE CAPS FOR SAFETY.
- UNISTRUT TO BE CUT FLUSH WITH NO SHARP OR JAGGED EDGES.
- ALL PROPOSED HARDWARE TO BE MOUNTED PER MANUFACTURER'S SPECS.



**3 H-FRAME ON CANOPY POST DETAIL**  
 SCALE: N.T.S.



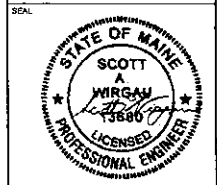
**4 CANOPY SUPPORT ANCHOR DETAIL**  
 SCALE: N.T.S.



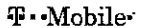
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REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	HEB	11/01/24

ATC SITE NUMBER: 207952  
 ATC SITE NAME: MACHIAS 2  
 TOWER SITE NAME: 48S1430A\_ATC  
 207952 SST MACHIAS  
 SITE ADDRESS: 116 STACKPOLE DRIVE  
 MACHIAS, ME 04054



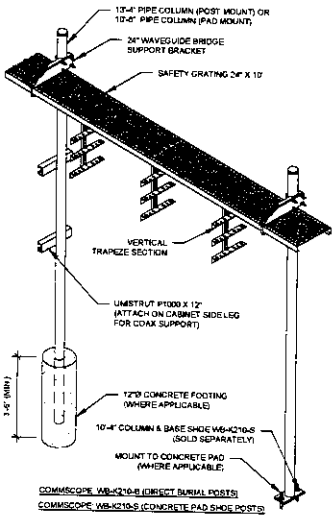
Digitally Signed: 2024-11-14



ATC PROJ. #: 1489013\_02  
 CUST. ID: 48S1430A\_ATC 207952 SST MACHIAS  
 CUST. #: 48S1430A

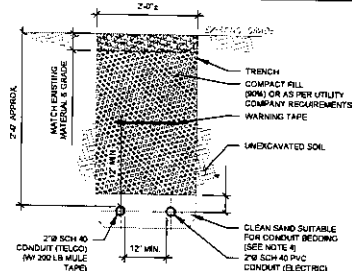
**CONSTRUCTION DETAILS**

SHEET NUMBER: C-502  
 REVISION: 0



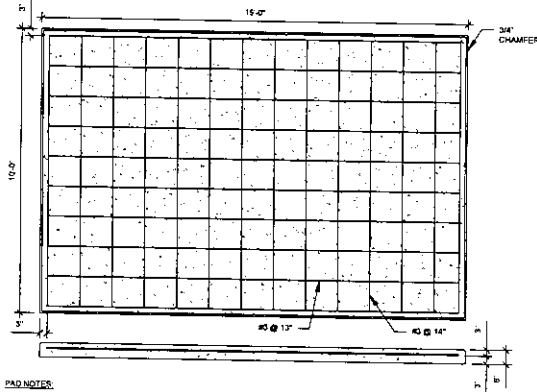
- CONSTRUCTION NOTE**
1. INSTALL ICE BRIDGE TO ALLOW 7 FEET CLEARANCE ABOVE GRADE TO LOWEST APPURTENANCE.
  2. INSTALL PER MANUFACTURERS SPECIFICATION.

**1 WAVEGUIDE BRIDGE KIT**  
SCALE: N.T.S.



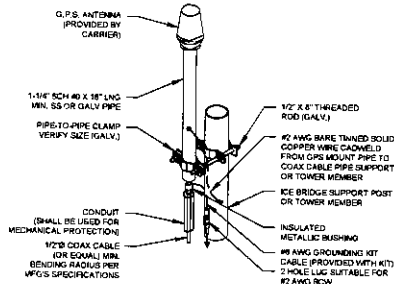
- TRENCH NOTES:**
1. IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL.
  2. IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL. COMPACT IN 4" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING UG UTILITIES PRIOR TO DIGGING.
  3. IF CURRENT AS-BUILT DRAWINGS ARE NOT AVAILABLE CONTRACTOR SHALL HAND DIG UG TRENCHING.
  4. CONCRETE ENCASE CONDUIT WHEN TRENCHING UNDER SITE ACCESS ROAD.

**2 TELCO AND POWER CONDUIT JOINT TRENCH**  
SCALE: N.T.S.



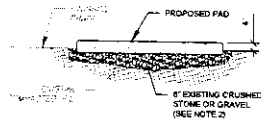
- PAD NOTES:**
1. PADS SHALL BE PRE-CAST MATCHING THIS DESIGN WHERE ALLOWED BY LOCAL JURISDICTION.
  2. REFER TO CONCRETE & REINFORCED STEEL NOTES ON SHEET G-002 & ATC SPEC 030000 FOR CAST-IN-PLACE PADS.

**4 REINFORCED PAD LAYOUT**  
SCALE: N.T.S.



- NOTE:**
1. GPS SHALL BE PLACED WITH CLEAR SIGHT LINE TO THE SOUTHERN SKY.
  2. CONTRACTOR TO SUPPLY COAX FOR GPS UNIT.

**3 GPS ANTENNA ATTACHMENT DETAIL**  
SCALE: N.T.S.



- PAD NOTES:**
1. SUBGRADE AND FILL SHALL CONSIST OF CLEAN SOIL. DELETERIOUS MATERIAL AND ORGANICS SHALL BE REMOVED.
  2. MECHANICALLY COMPACT FOOTPRINT OF PAD PLUS 2' PERIMETER.
  3. USE GALVANIZED MULTI EXPANSION ANCHORS OR APPROVED EQUAL FOR EQUIPMENT ANCHORAGE.
  4. FOR SIZE AND LOCATION OF ANCHORS AND OTHER REQUIREMENT, SEE EQUIPMENT VENDOR DRAWINGS.

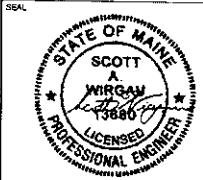
**5 GRAVEL PREPARATION**  
SCALE: N.T.S.



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REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	USD	11/01/20

ATC SITE NUMBER:  
207952  
ATC SITE NAME:  
MACHIAS 2  
MOBILE SITE NAME:  
4BG1430A\_ATC  
207952\_SST\_MACHIAS  
SITE ADDRESS:  
116 STADPOLE DRIVE  
MACHIAS, ME 04854



Digitaly Signed: 2024-11-04



ATC PROJ. # 14908131\_D2  
CLUST. ID 48G1430A\_ATC\_207952\_SST\_MACHIAS  
CLUST. # 48G1430A

**CONSTRUCTION DETAILS**

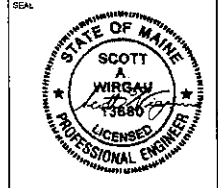
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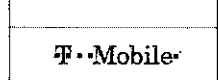
THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SFF FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING CHANGE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTORS MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV	DESCRIPTION	BY	DATE
▲	FOR CONSTRUCTION	HEB	11/02/24
▲			
▲			
▲			

ATC SITE NUMBER:  
207952  
ATC SITE NAME:  
MACHIAS 2  
TACHIBLE SITE NAME:  
48G1430A\_ATC  
207952\_SST\_MACHIAS  
SITE ADDRESS:  
118 STACKPOLE DRIVE  
MACHIAS, ME 04854

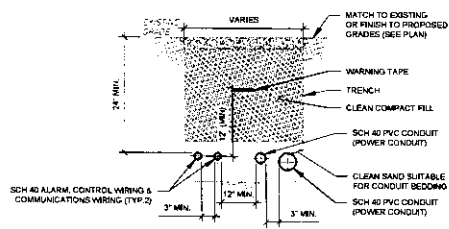


Digitally Signed: 2024-11-04



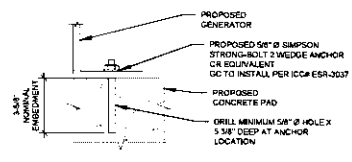
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CUST. ID 48G1430A\_ATC\_207952\_SST\_MACHIAS  
CUST. # 48G1430A

CONSTRUCTION DETAILS  
SHEET NUMBER REVISION  
C-504 0



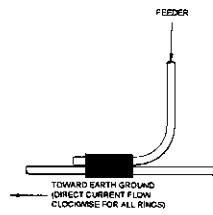
- TRENCH NOTES:**
- IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL.
  - IF NOT, PROVIDE CLEAN, COMPACTING MATERIAL. COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING UG UTILITIES PRIOR TO DIGGING.
  - IF CURRENT AS-BUILT DRAWINGS ARE NOT AVAILABLE CONTRACTOR SHALL HAND DIG LUG TRENCHING.
  - CONFIRM SPACING AND DEPTH WITH MEC OR LOCAL CODE REQUIREMENTS.
  - AC POWER CONDUITS MUST BE 3" MINIMUM FROM OTHER AC CONDUITS AND 12" MINIMUM FROM COMMUNICATIONS CONDUITS.

1 GENERATOR SERVICE CONDUIT TRENCH  
SCALE: N.T.S.



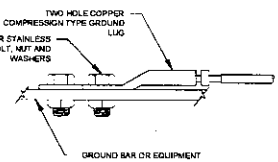
**NOTE:**  
INSTALL SIMPSON STRONG-TIE STRONG-BOLT WEDGE ANCHORS STRICTLY PER INSTALLATION INSTRUCTIONS INCLUDED WITH PRODUCT OR FOUND ONLINE AT WWW.STRONGTIE.COM. PROPER INSTALLATION IS CRITICAL FOR FULL PERFORMANCE.

2 GENERATOR ATTACHMENT DETAIL  
SCALE: N.T.S.



**NOTE:**  
ALL MECHANICAL EXTERNAL TERMINATION SURFACES SHALL BE TREATED WITH TIB-KORRUSHELD COP ANTI-OXIDATION COMPOUND.

3 GROUNDING CONDUCTOR CONNECTION  
SCALE: N.T.S.



**NOTE:**  
ALL MECHANICAL EXTERNAL TERMINATION SURFACES SHALL BE TREATED WITH TIB-KORRUSHELD COP ANTI-OXIDATION COMPOUND.

4 TWO HOLE LUG CONNECTION DETAIL  
SCALE: N.T.S.



**GROUNDING NOTES**

- ALL EQUIPMENT ENCLOSURES, DEVICES AND CONDUITS SHALL BE GROUNDING TO CONFORM WITH THE LATEST REQUIREMENTS OF THE NEC BY THE INSTALLATION OF A SEPARATE, GREEN, INSULATED GROUND CONDUCTOR FOR ALL FEEDER AND BRANCH CIRCUITS. GROUND CONDUCTORS SHALL BE OF THE SIZE INDICATED ON THE DRAWINGS. GROUND CONDUCTORS SHALL BE CONTINUOUS IN LENGTH AND SHALL BE BONDED TO EACH ENCLOSURE THEY PASS THROUGH. CONDUIT SHALL NOT BE USED AS A GROUNDING CONDUCTOR.

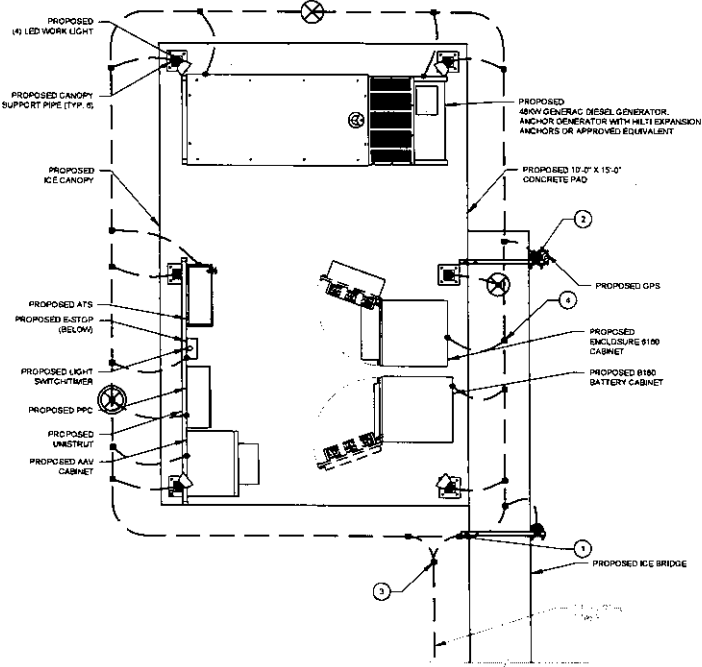
- GROUNDING CONDUCTORS SHALL
  - BE #2 AWG SOLID BARE THINNE copper (BFC) FOR ALL GROUNDING SYSTEM WIRE UNLESS OTHERWISE NOTED OR OTHERWISE REQUIRED BY CODE.
  - BE MINIMUM 1/2" BEND RADIUS. KEEP NUMBER OF BENDS TO A MINIMUM.
  - AVOID LONG BENDING CONNECTION RUNS. MAKE DIRECT AS POSSIBLE.
  - NOT HAVE ANY SHARPED RUNS.
  - BE IN NONMETALLIC CONDUIT ONLY, IF IN CONDUIT.
  - BE PLACED THROUGH NONMETALLIC SLEEVES IN FLOORS, WALLS, CEILING, ETC.
  - PROTECTED IN NONMETALLIC CONDUIT WHERE EXPOSED ABOVE GRADE.

- INSTALL ALL GROUNDING RINGS AND RADIALS WITH CONDUCTIVE CEMENT, SAND/DHA AS DISTRIBUTED BY ELECTRIC MOTION COMPANY, INC. (WASTED, CT 06064, OR AS SPECIFICALLY INDICATED. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

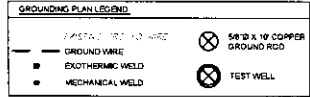
- GROUND RINGS SHALL BE
  - MINIMUM 30" BELOW GRADE OR BELOW FROST LINE WHICHEVER IS DEEPER.
  - MINIMUM 2" FROM FOUNDATIONS, FOOTINGS, OTHER GROUNDING SYSTEMS AND ALL CONDUCTIVE OBJECTS.
  - WITH MINIMUM 1/2" BEND RADIUS.
  - WITH ALL CONNECTIONS IN CONTACT WITH EARTH BONDED BY EXOTHERMIC WELDING.
  - BONDED TO A SINGLE POINT GROUND (SPG) WITH A SINGLE WIRE AS INDICATED ON DRAWINGS.

- GROUND RODS SHALL BE
  - MINIMUM 5/8" DIAMETER.
  - MINIMUM 10' LONG.
  - CORNER-CLAD GALVANIZED STEEL OR STAINLESS STEEL.
  - PLACED IN UNDISTURBED SOIL AND BELOW THE FROST LINE.
  - INSTALLED WITH MINIMUM SEPARATION DISTANCE OF TWICE THE DEPTH OF THE RODS, OR AS INDICATED ON DRAWINGS.
  - MINIMUM TWO (2) RODS ON THE TOWER RING OR ONE (1) PER LEG WHICHEVER IS LARGER. MINIMUM FOUR (4) RODS ON EVERY EQUIPMENT BUILDING RING WITH ONE AT EACH CORNER OR AS INDICATED. MINIMUM ONE (1) ROD FOR POWER SERVICE GROUNDING ELECTRODE AND MINIMUM ONE (1) ROD AT END OF EACH RADIAL.

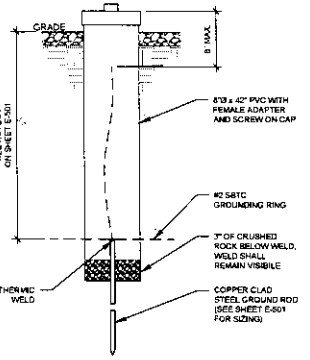
- CONDUCTIVE OBJECTS, SUCH AS FENCES, SHALL BE BONDED TO THE GROUNDING SYSTEM IF WITHIN 20' OF THE TOWER GROUNDING SYSTEM, OR 5' OF ANY OTHER GROUNDING COMPONENT.




1 DETAILED GROUNDING PLAN  
SCALE: N.T.S.



- GROUNDING KEYED NOTES**
- BOND TO TOWER GROUND RING
  - #2 AWG BOND FROM VERTICAL INFRAME AND ICE BRIDGE POST TO EXTERNAL GROUND RING (TYP. EVERY POST).
  - #2 AWG BOND FROM TOWER GROUND RING TO EQUIPMENT.
  - EQUIPMENT BOND TO GROUND RING (TYP.)



2 TEST WELL DETAIL  
SCALE: N.T.S.




**AMERICAN TOWER**  
ATC TOWER SERVICES, LLC  
1 FENTON MAIN  
SUITE 300  
CARY, NC 27511  
PHONE: (919) 480-0112

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED GARRISE IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDED GARRISE. CONSTRUCTION REVIEW OF THIS PROJECT CONTRACTORS MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED GARRISE OF ANY DISCREPANCIES. ANY FUTURE ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	HEB	11/09/24

ATC SITE NUMBER: 207952  
ATC SITE NAME: MACHIAS 2  
T-MOBILE SITE NAME: 4831430A\_ATC  
207952\_SST\_MACHIAS  
SITE ADDRESS: 115 STADPOLE DRIVE  
MACHIAS, ME 04854



Digitally Signed: 2024-11-14

**T-Mobile**

ATC PROJ. # 14800133\_02  
CUST. ID 4801430A\_ATC 207952\_SST\_MACHIAS  
CURT. # 4801430A

**GROUNDING PLAN AND NOTES**

SHEET NUMBER: E-101      REVISION: 0