

January 31, 2024

Melanie A. Bachman Executive Director Connecticut Siting Council 10 Franklin Square New Britain, CT 06051

Re: Notice of Exempt Modification – RRU Swap/Groundwork Only

Property Address: 1 Westerberg Drive Farmington, CT

Applicant: AT&T Mobility, LLC

Dear Ms. Bachman:

On behalf of AT&T, please accept this application as notification pursuant to R.C.S.A. §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. §16- 50j-72(b) (2).

AT&T currently maintains a wireless telecommunications facility consisting of three (3) wireless telecommunication antennas at an antenna center line height of 139' on an existing 156-foot Flagpole, owned by SBA Communications.

AT&T desires to modify its existing telecommunications facility by swapping six (6) remote radio units within the shelter on ground level.

Attached is a summary of the planned modifications including power density calculations reflecting the change in AT&T's operations at the site. Also included is documentation of the structural sufficiency of the tower to accommodate the revised antenna configuration.

Please accept this letter pursuant to Regulation of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-5l0j-72(b) (2). In accordance with R.C.S.A., a copy of this letter is being sent to the following individuals: Kathleen A. Blonski, Town Manager, Town of Farmington, Shannon Rutherford, Town Planner, Town of Farmington, Town of Farmington Treatment Plan, Property Owner, and SBA Communications, as Structure Owner.

The following is a list of subsequent decisions by the Connecticut Siting Council:

• <u>EM-AT&T -052-230106</u> – AT&T Mobility, LLC notice of intent to modify an existing telecommunications facility located at 1 Westerberg Drive Farmington, Connecticut.

The planned modifications to AT&T's facility fall squarely within those activities explicitly provided for in R.C.S.A. §16-50j-72(b) (2).

- 1. The proposed modifications will not result in an increase in the height of the existing structure.
- 2. The proposed modifications will not involve any changes to ground-mounted equipment and, therefore, will not require an extension of the site boundary.
- The proposed modifications will not increase the noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
- The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

For the foregoing reasons, AT&T respectfully submits that the proposed modifications to the above referenced telecommunications facility constitutes an exempt modification under R.C.S.A. §16-50j-72(b) (2).



Sincerely,

Carolyn Seeley Real Estate Specialist Smartlink on behalf of AT&T (978) 760-5577 Carolyn.seeley@smartlinkgroup.com

CC w/enclosures:

Kathleen A. Blonski, Town Manager, Town of Farmington Shannon Rutherford, Town Planner, Town of Farmington Town of Farmington Treatment Plan, Property Owner SBA Communications, Structure Owner

The values and data on this site are for the 2017 Revaluation Grand List. Assessments are computed at 70% of the estimated market value of real property as of October 1, 2017. If you wish to review your property information and value, please call Tyler Technologies at (860) 675-2348 to make an appointment for an Informal Hearing. Please do not call the Assessor's Office.





Information on the Property Records for the Municipality of Farmington was last updated on 1/1/2018.

Parcel Information

Location:	1 WESTERBERG DR	Property Use:	Special Purpose	Primary Use:	Sewage Treatment Plant
Unique ID:	21350001	Map Block Lot:	0078 38	Acres:	28.00
490 Acres:	0.00	Zone:	CR	Volume / Page:	0148/0503
Developers Map / Lot:		Census:	4602-01		

Value Information

Appraised Value 70% Assessed Value Land 21,000,000 14,700,000 Buildings 20,612,289 14,428,600 Detached Outbuildings 49,309 34,520

Owner's Information

Owner's Data
FARMINGTON TOWN OF
TREATMENT PLANT
, 00000
, 00000

Total 41,661,598 29,163,120

Building 1



	40	
	(2240)	
56	1SB/B	56
	40	

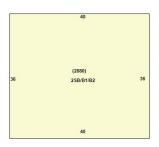
Category:	Office	Use:	Office/Warehouse	GLA:	2,240
Stories:	1.00	Construction:	Fire Resistant	Year Built:	1994
Heating:	FHA	Fuel:	Natural Gas	Cooling Percent:	50
Siding:	BR/CB	Roof Material:	Rolled	Beds/Units:	0

Special Features

Attached Components

Building 2

Photo Not Available



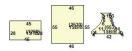
Category:	Office	Use:	Office/Warehouse	GLA:	4,320
Stories:	3.00	Construction:	Fire Resistant	Year Built:	1980
Heating:	FHA	Fuel:	Natural Gas	Cooling Percent:	75
Siding:	BR/CB	Roof Material:	Rolled	Beds/Units:	0

Special Features

Attached Components

Building 3

Photo Not Available



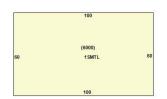
Category:	Office	Use:	Office/Warehouse	GLA:	4,443
Stories:	1.00	Construction:	Fire Resistant	Year Built:	1970
Heating:		Fuel:		Cooling Percent:	0
Siding:		Roof Material:		Beds/Units:	0

Special Features

Attached Components

Building 4

_{Photo Not} Available



Category:	Industrial	Use:	Industrial	GLA:	6,000
Stories:	1.00	Construction:	Light Steel	Year Built:	1994
Heating:	None	Fuel:		Cooling Percent:	0
Siding:	Metal	Roof Material:	Asphalt	Beds/Units:	0

Special Features

Attached Components

Building 5

Photo Not Available

Category:	Industrial	Use:	Industrial	GLA:	22,700
Stories:	1.00	Construction:	Wood Joist	Year Built:	1994
Heating:	None	Fuel:		Cooling Percent:	0



Siding: Metal Roof Asphalt Beds/Units: 0
Material:

Special Features

Attached Components

Detached Outbuildings

Type:	Year Built:	Length:	Width:	Area:
Det FR/CB Garage	1994	0.00	0.00	450
Sewage Treatment Plant	1994	0.00	0.00	1
Paving	1994	0.00	0.00	24,000
Frame Shed	1994	0.00	0.00	360
Frame Shed	1994	0.00	0.00	576

Building Permits

Permit Number	Permit Type	Date Opened	Date Closed	Permit Status	Reason
28718	Mechanical	05/17/2016		Closed	Plumbing
28687	Central Air / Heat	05/05/2016		Closed	Htg/AC
28558	Electrical	03/22/2016		Closed	
35515		03/18/2016		Needs Visit	
26471		10/16/2015		Closed	Fire Suppression

Information Published With Permission From The Assessor

PROJECT INFORMATION

SCOPE OF WORK:

- REMOVE (3) RRUS-11 B12 RRH'S
- REMOVE (3) RRUS-12 B2 RRH'S
- PROPOSED (3) 4449 B5/B12
- PROPOSED (3) 4415 B25
 REPLACE EXISTING 12 PENTAPLEXER WITH 12 KMTCV00810010/020
- INSTALL (2) RECTIFIERS IN EXISTING NETSURE POWER PLANT
- INSTALL (1) 6651 BBU WITH XCEDE CABLE

NO TOWER WORK PROPOSED

RFDS: PRELIMINARY APPROVED V5 RFDS 04/05/2022

SITE NAME: FARMINGTON WESTERBERG DRIVE

SITE FA #: 10029078 SITE ID #: CTI 01119

SITE ADDRESS: 1 WESTERBERG DRIVE FARMINGTON, CT 06032

ZONING/JURISDICTION: HARTFORD COUNTY

PROPERTY OWNER:

T-1 TITLE SHEET

SBA TOWERS 5900 BROKEN SOUND PARKWAY NORTHWEST

BOCA RATON, FL 33487

PHONE: (800)487-7483

(41.7304839) N 41° 43' 49.74" (NAD-83) LATITUDE:

LONGITUDE: (-72.8354881) W -72° 50' 07.75" (NAD-83)

ELEVATION GROUND: ±165' AMSL STRUCTURE HEIGHT: ±164'-0" RAD CENTER: 139'-0"

USE GROUP: U - UTILITY AND MISCELLANEOUS CONST. TYPE: IIB - UNPROTECTED, NON COMBUSTIBLE

CURRENT USE: TELECOMMUNICATION FACILITY PROPOSED USE: TELECOMMUNICATION FACILITY

GN-1 GENERAL NOTES

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TECHNOLOGIES

KCI TECHNOLOGIES, INC. 11830 West Market Place, Suite F Fulton, MD 20759 Phone: 410.792.8086

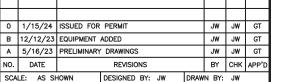


SMARTLINK 1000 W. NINTH, SUITE D KING OF PRUSSIA, PA 19406

1 WESTERBERG DRIVE FARMINGTON, CT 06032 HARTFORD COUNTY



550 COCHITUATE ROAD FRAMINGHAM, MA 01701



at&t

SITE NUMBER: CTL01119

SITE NAME: FARMINGTON WESTERBERG DRIVE

FA CODE: 10029078

PACE ID: MRCTB062303, MRCTB062221, MRCTB062216

PROJECT: 5G NR 1SR CBAND

GENERAL NOTES THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY

AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.

THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T MOBILITY REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN.

UNDERGROUND SERVICE ALERT



AT&T TITLE SHEET

5GNR 1SR C BAND 2021 UPGRADE

SITE NUMBER DRAWING NUMBER CTL01119

SITE NUMBER: CTL01119 SITE NAME: FARMINGTON WESTERBERG DRIVE

VICINITY MAP

TURN LEFT ONTO WESTERBERG DRIVE THE SITE IS NEXT TO FARMINGTON WATER TREATMENT PLANT

PROJECT

_OCATION

• I-91 SOUTH TOWARD NEW HAVEN. TAKE EXIT 22 NORTH TOWARD NEW BRITAIN

MERGE ONTO I-84 WEST/US-6 WEST VIA EXIT 32 ON LEFT TOWARD WATERBURY

MERGE ONTO FARMINGTON AVENUE/CT-4 WEST VIA EXIT 39 TOWARD FARMINGTON

DIRECTIONS TO SITE: (FROM AT&T ADDRESS)

SITE WORK NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO THE COMMENCEMENT OF WORK.
- 2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE PROVIDED SAFETY AND ENVIRONMENTAL AWARENESS TRAINING.
- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- 5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE LOCAL AUTHORITY HAVING JURISDICTION.
- SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION AND NOT EXCEEDING THE LIMITS OF DISTURBANCE AS IDENTIFIED ON THE CONSTRUCTION DRAWING AND ASSURING THAT SEDIMENT AND EROSION CONTROL IS PROPERLY MAINTAINED.
- THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT, TOWER AREAS AND INTO NATURAL DRAINAGE WAYS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- 10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- 11. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- 12. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

GENERAL NOTES:

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 ENGINEER SUPPORT ENGINEERING CONTRACTOR GENERAL CONTRACTOR (CONSTRUCTION)
 OWNER AT&T
 OEM ORIGINAL EQUIPMENT MANUFACTURER
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
- 3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- 7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS
- 8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
- 9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL OBTAIN FIELD APPROVAL BY THE LOCAL AUTHORITY HAVING JURISDCTION FOR ANY DEVIATION FOR SHOWN ROUTES FOR ANY UTILITY.
- 10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER. SUBSTITUTIONS OF ANY EQUIPMENT AND MATERIALS REQUIRE THE APPROVAL OF THE LOCAL AUTHORITY HAVING JURISDICTION.
- 11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN A CLEAR CONDITION ON A DAILY BASIS.
- CONSTRUCTION SHALL COMPLY WITH THE LATEST EDITION OF SPECIFICATIONS UNDER "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T SITES."
- 14. WHERE THE CONSTRUCTION DRAWINGS OR SPECIFICATIONS ARE IN CONFLICT WITH ANY REQUIREMENTS OF THE PERMIT ISSUED BY THE LOCAL AUTHORITY HAVING JURISDICTION, THE PERMIT SHALL HAVE PRIMARY AUTHORITY.

GENERAL NOTES:

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

- 2021 INTERNATIONAL BUILDING CODE (IBC)
- 2021 INTERNATIONAL MECHANICAL CODE (IMC)
- 2020 NATIONAL ELECTRICAL CODE
- 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

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

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

AMERICAN INCIDENT OF OTHER CONTRICTION (AIGO) MANUAL OF OTHER

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION;

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARDS FOR STEFI

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





11830 West Market Place, Suite F Fulton, MD 20759 Phone: 410.792.8086



SMARTLINK 1000 W. NINTH, SUITE D KING OF PRUSSIA, PA 19406 SITE NUMBER: CTL01119 SITE NAME: FARMINGTON WESTERBERG DRIVE

> 1 WESTERBERG DRIVE FARMINGTON, CT 06032 HARTFORD COUNTY



FRAMINGHAM, MA 01701

_								_	_
	0	1/15/24	ISSUED FOR	SSUED FOR PERMIT			JW	JW	GT
	В	12/12/23	EQUIPMENT	EQUIPMENT ADDED			JW	JW	GT
	Α	5/16/23	PRELIMINARY	DRAWINGS			JW	JW	GT
	NO.	DATE		REVISIONS			BY	снк	APP'D
	SCALE: AS SHOWN			DESIGNED BY:	JW	DRAW	N BY:	JW	

AT&T

GENERAL NOTES

5GNR 1SR C BAND 2021 UPGRADE

SITE NUMBER DRAWING NUMBER

CTL011119 GN-1

PART 1 - GENERAL

1.1 GENERAL CONDITIONS:

- A. CONTRACTOR SHALL INSPECT THE EXISTING SITE CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARDS TO THE CONTRACTORS FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE PROJECT MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.
- THE CONTRACTOR SHALL OBTAIN PERMITS, LICENSES, MAKE ALL DEPOSITS, AND PAY ALL FEES REQUIRED FOR THE CONSTRUCTION PERFORMANCE FOR THE WORK UNDER THIS SECTION.
- DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWING SHALL NOT BE SCALED TO DETERMINE DIMENSIONS
- LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES.
 - A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, AND ALL APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES. CONDUIT BENDS SHALL BE THE RADIUS BEND FOR THE TRADE SIZE OF CONDUIT IN COMPLIANCE WITH THE LATEST EDITIONS OF NEC.

1.3 REFERENCES:

- A. THE PUBLICATIONS LISTED BELOW ARE PART OF THIS SPECIFICATION. EACH PUBLICATION SHALL BE THE LATEST REVISION AND ADDENDUM IN EFFECT ON THE DATE. THIS SPECIFICATION IS ISSUED FOR CONSTRUCTION UNLESS OTHERWISE NOTED. EXCEPT AS MODIFIED BY THE REQUIREMENT SPECIFIED HEREIN OR THE DETAILS OF THE DRAWINGS, WORK INCLUDED IN THIS SPECIFICATION SHALL CONFORM TO THE APPLICABLE PROVISION OF THESE
- 1. ANSI/IEEE (AMERICAN NATIONAL STANDARDS INSTITUTE)
- 2. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)
- 3. ICE (INSULATED CABLE ENGINEERS ASSOCIATION)
- 4. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)
- 5. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
- 6. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)
- UL (UNDERWRITERS LABORATORIES, INC.)
- AT&T GROUNDING AND BONDING STANDARDS
- 9. AMERICAN INSTITUTION OF STEEL CONSTRUCTION 360-10.

1.4 SCOPE OF WORK:

- A. WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL, AND ASSOCIATED SERVICES REQUIRED TO COMPLETE REQUIRED CONSTRUCTION AND BE OPERATIONAL.
- ALL ELECTRICAL EQUIPMENT UNDER THIS CONTRACT SHALL BE PROPERLY TESTED, ADJUSTED, AND ALIGNED BY THE
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATING, DRAINING, TRENCHES, BACKFILLING, AND REMOVAL
- THE CONTRACTOR SHALL FURNISH TO THE OWNER WITH CERTIFICATES OF A FINAL INSPECTION AND APPROVAL FROM THE INSPECTION AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL PREPARE A COMPLETE SET OF AS-BUILT DRAWINGS, DOCUMENT ALL WIRING EQUIPMENT CONDITIONS, AND CHANGES WHILE COMPLETING THIS CONTRACT. THE AS-BUILT DRAWINGS SHALL BE SUBMITTED AT COMPLETION OF THE PROJECT.

PART 2 - PRODUCTS

2.1 GENERAL:

- ALL MATERIALS AND EQUIPMENT SHALL BE UL LISTED, NEW, AND FREE FROM DEFECTS.
 ALL ITEMS OF MATERIALS AND EQUIPMENT SHALL BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED.
- ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
- ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 10,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PER THE GOVERNING JURISDICTION.

2.2 MATERIALS AND EQUIPMENT:

A. CONDUIT:

- RIGID METAL CONDUIT (RMC) SHALL BE HOT-DIPPED GALVANIZED INSIDE AND OUTSIDE INCLUDING ENDS AND THREADS AND ENAMELED OR LACQUERED INSIDE IN ADDITION TO GALVANIZING.
- LIQUIDTIGHT FLEXIBLE METAL CONDUIT SHALL BE UL LISTED.
- CONDUIT CLAMPS, STRAPS AND SUPPORTS SHALL BE STEEL OR MALLEABLE IRON. ALL FITTINGS SHALL BE COMPRESSION AND CONCRETE TIGHT TYPE. GROUNDING BUSHINGS WITH INSULATED THROATS SHALL BE INSTALLED ON ALL CONDUIT TERMINATIONS
- NONMETALLIC CONDUIT AND FITTINGS SHALL BE SCHEDULE 40 PVC OR SCHEDULE 80 PVC WHERE SPECIFIED. NSTALL USING SOLVENT-CEMENT-TYPE JOINTS AS RECOMMENDED BY THE MANUFACTURER

B. CONDUCTORS AND CABLE:

- CONDUCTORS AND CABLE SHALL BE FLAME-RETARDANT, MOISTURE AND HEAT RESISTANT THERMOPLASTIC, SINGLE CONDUCTOR, COPPER, TYPE THHN/THWN-2, 600 VOLT, SIZE AS INDICATED, #12 AWG SHALL BE THE MINIMUM SIZE CONDUCTOR USED.
- #10 AWG AND SMALLER CONDUCTOR SHALL BE SOLID OR STRANDED AND #8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED.
- SOLDERLESS, COMPRESSION-TYPE CONNECTORS SHALL BE USED FOR TERMINATION OF ALL STRANDED
- STRAIN-RELIEF SUPPORTS GRIPS SHALL BE HUBBELL KELLEMS OR APPROVED EQUAL. CABLES SHALL BE
- SUPPORTED IN ACCORDANCE WITH THE NEC AND CABLE MANUFACTURER'S RECOMMENDATIONS.
 ALL CONDUCTORS SHALL BE TAGGED AT BOTH ENDS OF THE CONDUCTOR, AT ALL PULL BOXES, J—BOXES EQUIPMENT AND CABINETS AND SHALL BE IDENTIFIED WITH APPROVED PLASTIC TAGS (ACTION CRAFT, BRADY, OR APPROVED EQUAL).

C. DISCONNECT SWITCHES:

- 1. DISCONNECT SWITCHES SHALL BE HEAVY DUTY, DEAD-FRONT, QUICK-MAKE, QUICK-BREAK, EXTERNALLY OPERABLE, HANDLE LOCKABLE AND INTERLOCK WITH COVER IN CLOSED POSITION, RATING AS INDICATED, UL LABELED FURNISHED IN NEMA 3R ENCLOSURE, SQUARE-D OR ENGINEERED APPROVED EQUAL
- D. CHEMICAL ELECTROLYTIC GROUNDING SYSTEM:
- INSTALL CHEMICAL GROUNDING AS REQUIRED. THE SYSTEM SHALL BE ELECTROLYTIC MAINTENANCE FREE ELECTRODE CONSISTING OF RODS WITH A MINIMUM #2 AWG CU EXOTHERMALLY WELDED PIGTAIL, PROTECTIVE BOXES, AND BACKFILL MATERIAL. MANUFACTURER SHALL BE LYNCOLE XIT GROUNDING ROD
- TYPES K2—(*)CS OR K2L—(*)CS (*) LENGTH AS REQUIRED.
 GROUND ACCESS BOX SHALL BE A POLYPLASTIC BOX FOR NON—TRAFFIC APPLICATIONS, INCLUDING BOLT DOWN FLUSH COVER WITH "BREATHER" HOLES, XIT MODEL #XB-22. ALL DISCONNECT SWITCHES AND CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED LAMICOID NAMEPLATES INDICATING EQUIPMENT CONTROLLED. BRANCH CIRCUITS ID NUMBERING, AND THE ELECTRICAL POWER SOURCE.
- 3. BACKFILL MATERIAL SHALL BE LYNCONITE AND LYNCOLE GROUNDING GRAVEL.

E. SYSTEM GROUNDING:

- ALL GROUNDING COMPONENTS SHALL BE TINNED AND GROUNDING CONDUCTOR SHALL BE #2 AWG BARE, SOLID, TINNED, COPPER. ABOVE GRADE GROUNDING CONDUCTORS SHALL BE INSULATED WHERE NOTED. GROUNDING BUSES SHALL BE BARE, TINNED, ANNEALED COPPER BARS OF RECTANGULAR CROSS
- STANDARD BUS BARS MGB, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THEY SHALL NOT BE FABRICATED OR MODIFIED IN THE FIELD. ALL GROUNDING BUSES SHALL BE IDENTIFIED WITH MINIMUM 3/4" LETTERS BY WAY OF STENCILING OR DESIGNATION PLATE.
- CONNECTORS SHALL BE HIGH-CONDUCTIVITY, HEAVY DUTY, LISTED AND LABELED AS GROUNDING CONNECTORS FOR THE MATERIALS USED. USE TWO-HOLE COMPRESSION LUGS WITH HEAT SHRINK FOR MECHANICAL CONNECTIONS. INTERIOR CONNECTIONS USE TWO—HOLE COMPRESSION LUGS WITH INSPECTION WINDOW AND CLEAR HEAT SHRINK
- EXOTHERMIC WELDED CONNECTIONS SHALL BE PROVIDED IN KIT FORM AND SELECTED FOR THE SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS TO BE CONNECTED.
- GROUND RODS SHALL BE ERICO #615800, COPPER-CLAD STEEL WITH HIGH-STRENGTH STEEL CORE AND ELECTROLYTIC-GRADE COPPER OUTËR SHEATH, MOLTEN WELDED TO CORE, 5/8"x10'-0". ALL GROUNDING RODS SHALL BE INSTALLED WITH INSPECTION SLEEVES.
- INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS IN COMPLIANCE WITH THE AT&T SPECIFICATIONS AND NEC. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PULLBOXES, DISCONNECT SWITCHES, STARTERS, AND EQUIPMENT CABINETS.

F. OTHER MATERIALS:

- THE CONTRACTOR SHALL PROVIDE OTHER MATERIALS, THOUGH NOT SPECIFICALLY DESCRIBED, WHICH
 ARE REQUIRED FOR A COMPLETELY OPERATIONAL SYSTEM AND PROPER INSTALLATION OF THE WORK.
 PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY NEC.

G. PANELS AND LOAD CENTERS:

1. ALL PANEL DIRECTORIES SHALL BE TYPEWRITTEN.





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SITE NUMBER: CTL01119 SITE NAME: FARMINGTON WESTERBERG DRIVE

> 1 WESTERBERG DRIVE FARMINGTON, CT 06032 HARTFORD COUNTY



)	1/15/24	ISSUED FOR	SSUED FOR PERMIT				JW	GT
3	12/12/23	EQUIPMENT	ADDED			JW	JW	GT
١	5/16/23	PRELIMINARY	DRAWINGS		JW	JW	GT	
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PART 3 - EXECUTION

3.1 GENERAL:

- A. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S
- EQUIPMENT SHALL BE TIGHTLY COVERED AND PROTECTED AGAINST DIRT OR WATER, AND AGAINST CHEMICAL OR MECHANICAL INJURY DURING INSTALLATION AND CONSTRUCTION PERIODS.

3.2 LABOR AND WORKMANSHIP

- A. ALL LABOR FOR THE INSTALLATION OF MATERIALS AND EQUIPMENT FURNISHED FOR THE ELECTRICAL SYSTEM SHALL BE INSTALLED BY EXPERIENCED WIREMEN, IN A NEAT AND WORKMAN-LIKE MANNER.
- ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED, ALIGNED AND TESTED BY THE CONTRACTOR AS REQUIRED TO PRODUCE THE INTENDED PERFORMANCE.
- UPON COMPLETION OF WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED EQUIPMENT, REMOVE ALL LABELS AND ANY DEBRIS, CRATING OR CARTONS AND LEAVE THE INSTALLATION FINISHED AND

3.3 COORDINATION:

THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL ITEMS WITH THE OWNER-FURNISHED EQUIPMENT DELIVERY SCHEDULE TO PREVENT UNNECESSARY DELAYS IN THE TOTAL

3.4 INSTALLATION:

A. CONDUIT

- ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT AS SPECIFIED. NO CONDUIT OR TUBING OF LESS THAN 3/4 INCH TRADE SIZE.
 PROVIDE RIGID GALVANIZED STEEL CONDUITS FOR ALL RISERS UNLESS OTHERWISE NOTED. EMT MAY BE
- INSTALLED FOR EXTERIOR CONDUITS WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
- INSTALL SCH. 80 PVC CONDUIT WITH A MINIMUM COVER OF 24" UNDER ROADWAYS. PARKING LOTS. STREETS, AND ALLEYS. CONDUIT SHALL HAVE A MINIMUM COVER OF 18" IN ALL OTHER NON-TRAFFIC APPLICATIONS (REFER TO 2008 NEC, TABLE 300.5).
- USE GALVANIZED FLEXIBLE STEEL CONDUIT WHERE DIRECT CONNECTION TO EQUIPMENT WITH MOVEMENT, VIBRATION, OR FOR EASE OF MAINTENANCE. USE LIQUID TIGHT, FLEXIBLE METAL CONDUIT FOR OUTDOOR APPLICATIONS. INSTALL GALVANIZED FLEXIBLE STEEL CONDUIT AT ALL POINTS OF CONNECTION TO EQUIPMENT MOUNTED ON SUPPORT TO ALLOW FOR EXPANSION AND CONTRACTION.
- A RUN OF CONDUIT BETWEEN BOXES OR EQUIPMENT SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF THREE QUARTER-BENDS, CONDUIT BEND SHALL BE MADE WITH THE ULLISTED BENDER OR FACTORY 90
- FIELD FABRICATED CONDUITS SHALL BE CUT SQUARE WITH A CONDUIT CUTTING TOOL AND REAMED TO PROVIDE A SMOOTH INSIDE SURFACE.
- PROVIDE INSULATED GROUNDING BUSHING FOR ALL CONDUITS.
 CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL CONDUITS DURING CONSTRUCTION. TEMPORARY
 OPENINGS IN THE CONDUIT SYSTEM SHALL BE PLUGGED OR CAPPED TO PREVENT ENTRANCE OF MOISTURE OR FOREIGN MATTER. CONTRACTOR SHALL REPLACE ANY CONDUITS CONTAINING FOREIGN MATERIALS THAT CANNOT BE REMOVED.
- ALL CONDUITS SHALL BE SWABBED CLEAN BY PULLING AN APPROPRIATE SIZE MANDREL THROUGH THE CONDUIT BEFORE INSTALLATION OF CONDUCTORS OR CABLES. CONDUIT SHALL BE FREE OF DIRT AND
- INSTALL PULL STRINGS IN ALL CLEAN EMPTY CONDUITS. IDENTIFY PULL STRINGS AT EACH END.
- INSTALL 2" HIGHLY VISIBLE AND DETECTABLE TAPE 12" ABOVE ALL UNDERGROUND CONDUITS AND CONDUCTORS
- CONDUITS SHALL BE INSTALLED IN SUCH A MANNER AS TO INSURE AGAINST COLLECTION OF TRAPPED 12. CONDENSATION
- PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS TO ALLOW FOR RACEWAYS AND CABLES TO BE ROUTED THROUGH THE BUILDING, DO NOT PENETRATE STRUCTURAL MEMBERS, SLEEVES AND/OR PENETRATIONS IN FIRE RATED CONSTRUCTION SHALL BE EFFECTIVELY SEALED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE WALL OR STRUCTURE. FIRE STOPS AT FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE, FIRE, AND FUMES. ALL MATERIAL SHALL BE UL APPROVED FOR THIS PURPOSE.

B. CONDUCTORS AND CABLE:

- 1. SPLICES SHALL BE MADE ONLY AT OUTLETS, SLACK BOXES, OR ACCESSIBLE RACEWAY CONDULETS APPROVED FOR THIS PURPOSE.
- PULLING LUBRICANTS SHALL BE UL APPROVED. CONTRACTOR SHALL USE NYLON OR HEMP ROPE FOR PULLING CONDUCTOR OR CABLES INTO THE CONDUIT.
- CABLES SHALL BE NEATLY TRAINED, WITHOUT INTERLACING, AND BE OF SUFFICIENT LENGTH IN ALL BOXES & EQUIPMENT TO PERMIT MAKING A NEAT ARRANGEMENT. CABLES SHALL BE SECURED IN A MANNER TO AVOID TENSION ON CONDUCTORS OR TERMINALS. CONDUCTORS SHALL BE PROTECTED FROM MECHANICAL INJURY AND MOISTURE. SHARP BENDS OVER CONDUIT BUSHINGS IS PROHIBITED. DAMAGED CABLES SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- 4. ALL POWER WIRING SHALL BE COLOR CODED AS FOLLOWS:

DESCRIPTION	208/240/120 VOLT SYSTEMS
PHASE A	BLACK
PHASE B	RED
PHASE C	BLUE
NEUTRAL	WHITE
GROUNDING	GREEN

C. DISCONNECT SWITCHES:

INSTALL DISCONNECT SWITCHES LEVEL AND PLUMB. CONNECT TO WIRING SYSTEM AND GROUNDING SYSTEM AS INDICATED.

D. GROUNDING:

- ALL METALLIC PARTS OF ELECTRICAL EQUIPMENT WHICH DO NOT CARRY CURRENT SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING MANUFACTURER, AT&T GROUNDING AND BONDING STANDARDS, AND THE NATIONAL ELECTRICAL CODE.
- PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEM INDICATED WITH ASSEMBLY OF MATERIALS, INCLUDING GROUNDING ELECTRODES, BONDING JUMPERS AND ADDITIONAL ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
- ALL GROUNDING CONDUCTORS SHALL PROVIDE A STRAIGHT DOWNWARD PATH TO GROUND WITH GRADUAL BEND AS REQUIRED. GROUNDING CONDUCTORS SHALL NOT BE LOOPED OR SHARPLY BENT. ROUTE GROUNDING CONNECTIONS AND CONDUCTORS TO GROUND IN THE SHORTEST AND STRAIGHTEST PATHS POSSIBLE TO MINIMIZE TRANSIENT VOLTAGE RISES.
- BUILDINGS AND/OR NEW TOWERS GREATER THAN 75 FEET IN HEIGHT AND WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUND RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/O AWG COPPER, ROOFTOP GROUND RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY)
- TIGHTEN GROUNDING AND BONDING CONNECTORS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES FOR CONNECTORS AND BOLTS. WHERE MANUFACTURER'S TORQUING REQUIREMENTS ARE NOT AVAILABLE, TIGHTEN CONNECTIONS TO COMPLY WITH TIGHTENING TORQUE VALUES SPECIFIED IN UL TO ASSURE PERMANENT AND EFFECTIVE GROUNDING.
- CONTRACTOR SHALL VERIFY THE LOCATIONS OF GROUNDING TIE-IN-POINTS TO THE EXISTING GROUNDING SYSTEM. ALL UNDERGROUND GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S
- ALL GROUNDING CONNECTIONS SHALL BE INSPECTED FOR TIGHTNESS. EXOTHERMIC WELDED CONNECTIONS SHALL BE APPROVED BY THE INSPECTOR HAVING JURISDICTION BEFORE BEING PERMANENTLY CONCEALED.
- APPLY CORROSION-RESISTANCE FINISH TO FIELD CONNECTIONS AND PLACES WHERE FACTORY APPLIED PROTECTIVE COATINGS HAVE BEEN DESTROYED. USE KOPR-SHIELD ANTI-OXIDATION COMPOUND ON ALL COMPRESSION GROUNDING CONNECTIONS.
- A SEPARATE, CONTINUOUS, INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLE IN ALL FEEDER AND BRANCH CIRCUITS.
- 10. BOND ALL INSULATED GROUNDING BUSHINGS WITH A BARE 6 AWG GROUNDING CONDUCTOR TO
- 11. DIRECT BURIED GROUNDING CONDUCTORS SHALL BE INSTALLED AT A NOMINAL DEPTH OF 36" D MINIMUM BELOW GRADE, OR 6" BELOW THE FROST LINE, USE THE GREATER OF THE TWO
- 12. ALL GROUNDING CONDUCTORS EMBEDDED IN OR PENETRATING CONCRETE SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT.
- THE INSTALLATION OF CHEMICAL ELECTROLYTIC GROUNDING SYSTEM IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMOVE SEALING TAPE FROM LEACHING AND BREATHER HOLES. INSTALL PROTECTIVE BOX FLUSH WITH GRADE.
- 14. DRIVE GROUND RODS UNTIL TOPS ARE A MINIMUM DISTANCE OF 36" DEPTH OR 6" BELOW
- FROST LINE, USING THE GREATER OF THE TWO DISTANCES.

 15. IF COAX ON THE ICE BRIDGE IS MORE THAN 6 FT. FROM THE GROUND BAR AT THE BASE OF THE TOWER, A SECOND GROUND BAR WILL BE NEEDED AT THE END OF THE ICE BRIDGE, TO GROUND THE COAX CABLE GROUNDING KITS AND IN-LINE ARRESTORS
- CONTRACTOR SHALL REPAIR, AND/OR REPLACE, EXISTING GROUNDING SYSTEM COMPONENTS DAMAGED DURING CONSTRUCTION AT THE CONTRACTORS EXPENSE.

3.5 ACCEPTANCE TESTING:

- A. CERTIFIED PERSONNEL USING CERTIFIED EQUIPMENT SHALL PERFORM REQUIRED TESTS AND
- WRITTEN TEST REPORTS UPON COMPLETION.
- WHEN MATERIAL AND/OR WORKMANSHIP IS FOUND NOT TO COMPLY WITH THE SPECIFIED REQUIREMENTS, THE NON-COMPLYING ITEMS SHALL BE REMOVED FROM THE PROJECT SITE AND REPLACED WITH ITEMS COMPLYING WITH THE SPECIFIED REQUIREMENTS PROMPTLY AFTER RECEIP OF NOTICE FOR NON-COMPLIANCE.

C. TEST PROCEDURES;

- ALL FEEDERS SHALL HAVE INSULATION TESTED AFTER INSTALLATION, BEFORE CONNECTION TO DEVICES. THE CONDUCTORS SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS. TESTING SHALL BE FOR ONE MINUTE USING 1000V DC. PROVIDE WRITTEN DOCUMENTATION FOR ALL TEST RESULTS
- PRIOR TO ENERGIZING CIRCUITRY, TEST WIRING DEVICES FOR ELECTRICAL CONTINUITY AND PROPER POLARITY CONNECTIONS.
- MEASURE AND RECORD VOLTAGES BETWEEN PHASES AND BETWEEN PHASE CONDUCTORS AND NEUTRALS. SUBMIT A REPORT OF MAXIMUM AND MINIMUM VOLTAGES
- PERFORM GROUNDING TEST TO MEASURE GROUNDING RESISTANCE OF GROUNDING SYSTEM USING THE IEEE STANDARD 3-POINT "FALL-OF-POTENTIAL" METHOD. PROVIDE PLOTTED TEST VALUES AND LOCATION SKETCH. NOTIFY THE ENGINEER IMMEDIATELY IF MEASURED VALUE IS OVER 5 OHMS.





KCI TECHNOLOGIES, INC.

11830 West Market Place, Suite F



SMARTLINK 1000 W. NINTH, SUITE D KING OF PRUSSIA, PA 19406

SITE NUMBER: CTL01119 SITE NAME: FARMINGTON WESTERBERG DRIVE

> 1 WESTERBERG DRIVE FARMINGTON, CT 06032 HARTFORD COUNTY

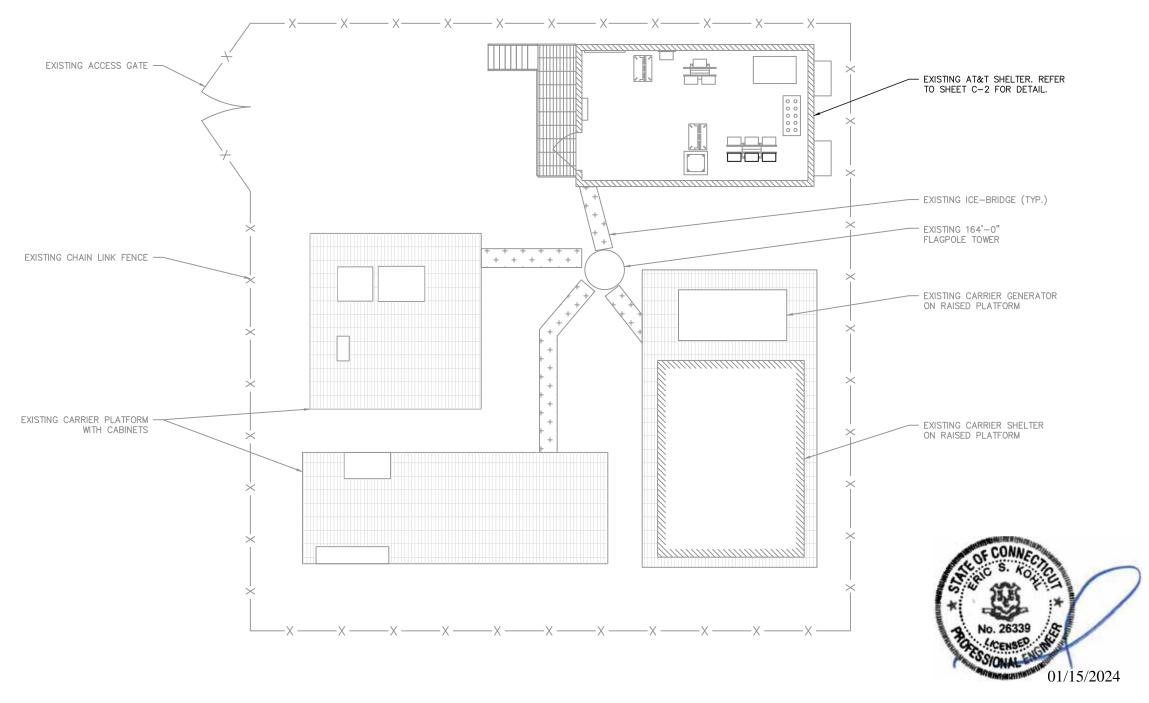


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GRAPHIC SCALE

(IN FEET)

COMPOUND PLAN

JW JW GT

JW JW GT

BY CHK APP'D

SCALE: 1"=8' (1"=4') ON 22"x34" SHEET)

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COMPOUND PLAN 5GNR 1SR C BAND 2021 UPGRADE SITE NUMBER DRAWING NUMBER

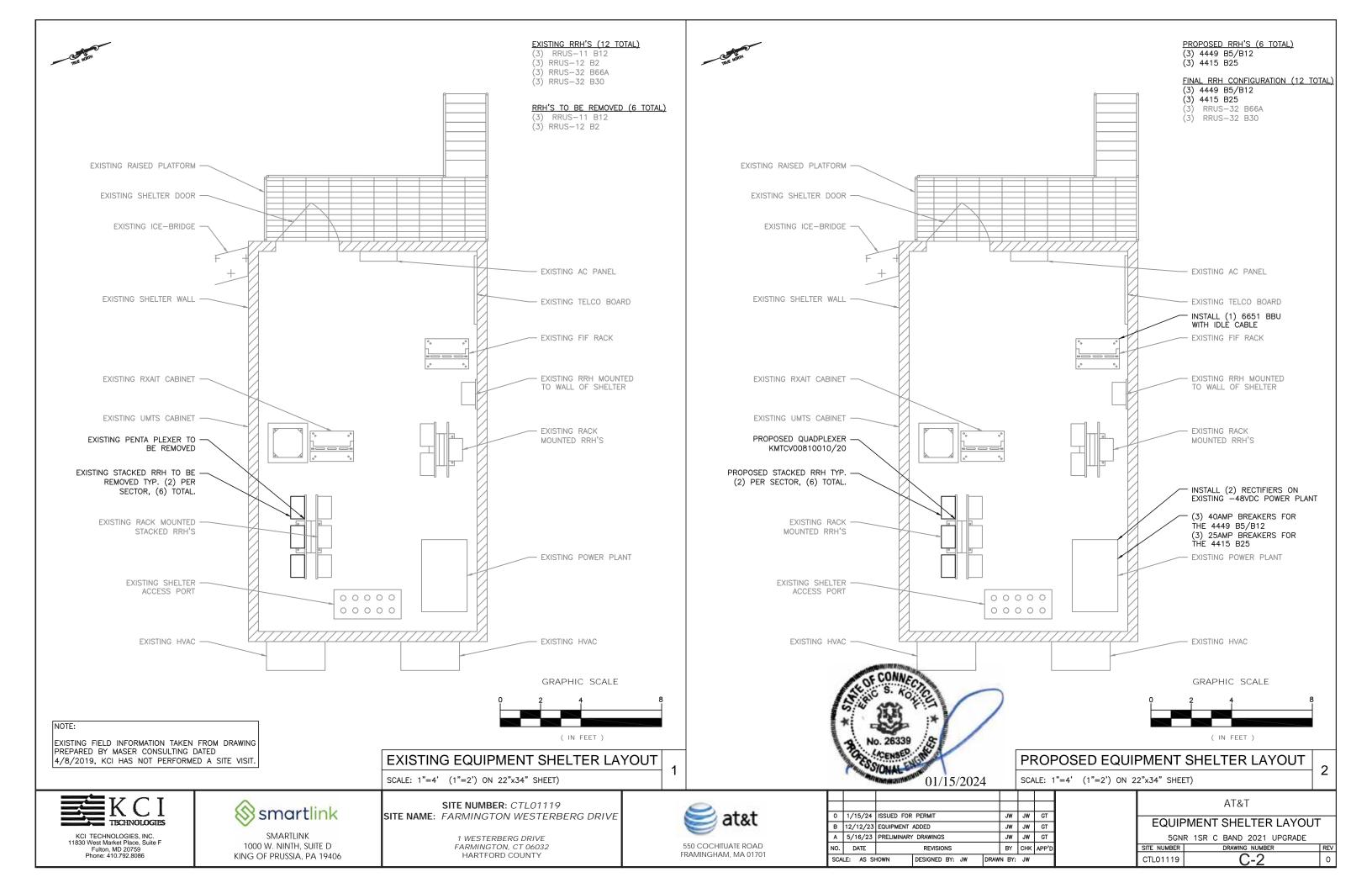
EXISTING FIELD INFORMATION TAKEN FROM DRAWING PREPARED BY MASER CONSULTING DATED 4/8/2019, KCI HAS NOT PERFORMED A SITE VISIT.

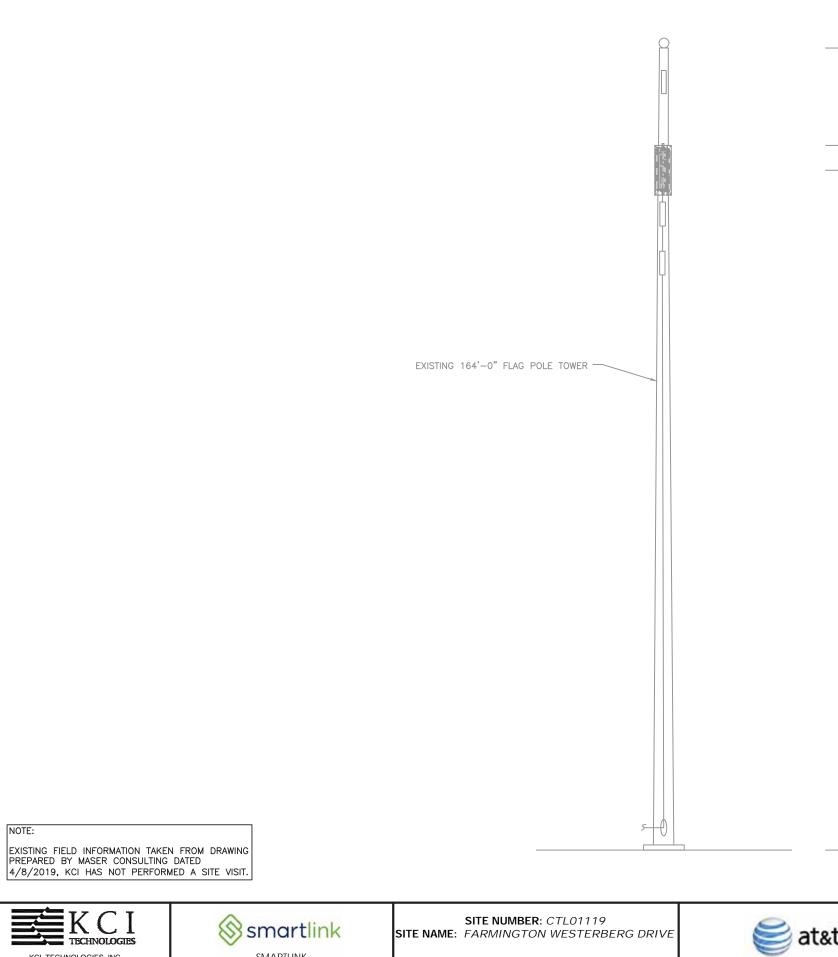
EX. BUILDING

<u>LEGEND</u>

EX. FEATURES PR. FEATURES

CTL01119





EXISTING TOP OF FLAGPOLE TOWER

© 164'-0" AGL

EXISTING AT&T ANTENNA RAD CENTER @ 139'-0" AGL

01/15/2024

ELEVATION PLAN

SCALE: N.T.S

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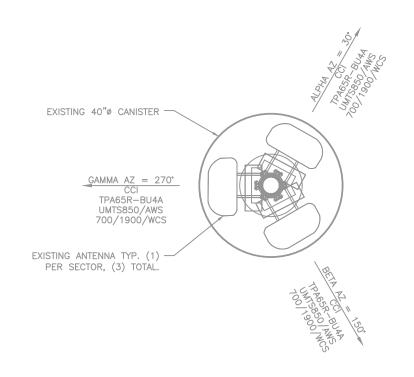


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NOTE:
ALL RRH'S MOUNTED AT GROUND
LEVEL IN EQUIPMENT SHELTER. REFER
TO SHEET C-2 FOR DETAIL.



EXISTING ANTENNA CONFIGURATION

AT&T

SCALE: 1"=2' (1"=1') ON 22"x34" SHEET)

CTL01119

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ANTENNA LAYOUT 5GNR 1SR C BAND 2021 UPGRADE SITE NUMBER C-4

	ANTENNA SCHEDULE											
SECTOR POSITION	STATUS	ANTENNA MANUFACTURE	ANTENNA MODEL	ANTENNA DIMENSIONS	RAD CENTER	AZIMUTH	TMA/RRU QUANTITY & MODEL	TMA	ANTENNA E-TILT	ANTENNA M-TILT	PROPOSED FEEDERS	TRUNK LENGTH
A-1	EXISTING	CCI	TPA65R-BU4A	48"x11.8"x11.5"	139'	30°	(1) 4449 B5/B12 (1) 4415 B25 (1) RRUS-32 B66A (1) RRUS-32 B30	(2) KMTCV00810010/02 (2) DTMABP0723VG1 2A	0° 2°	0°	(1) 6651 BBU WITH XCEDE CABLE	±170'
B-1	EXISTING	CCI	TPA65R-BU4A	48"x11.8"x11.5"	139'	150°	(1) 4449 B5/B12 (1) 4415 B25 (1) RRUS-32 B66A (1) RRUS-32 B30	(2) KMTCV00810010/02 (2) DTMABP0723VG1 2A	0° 2°	0°	-	±170'
G-1	EXISTING	CCI	TPA65R-BU4A	48"x11.8"x11.5"	139'	270°	(1) 4449 B5/B12 (1) 4415 B25 (1) RRUS-32 B66A (1) RRUS-32 B30	(2) KMTCV00810010/02 (2) DTMABP0723VG1 2A	3°	0°	-	±170'

NOTE: ALL RRH'S MOUNTED AT GROUND LEVEL IN EQUIPMENT SHELTER. REFER TO SHEET C-2 FOR DETAIL.

EXISTING ANTENNAS	TOTAL
(1) PER SECTOR	(3)

PROPOSED RRH (PER SECTOR)	TOTAL
(1) 4449 B5/B12	(3)
(1) 4415 B25	(3)
EXISTING RRH (PER SECTOR)	TOTAL
(1) RRUS-32 B66A	(3)
(1) RRUS-32 B30	(3)

1 DC BREAKER TO BE INSTALLED

FOR EACH RRH:	
	BREAKER SIZE:
4449 B5/B12	20 AMP
4415 B25	50 AMP
RRUS-32 B66A	
RRUS-32 B30	20 AMP







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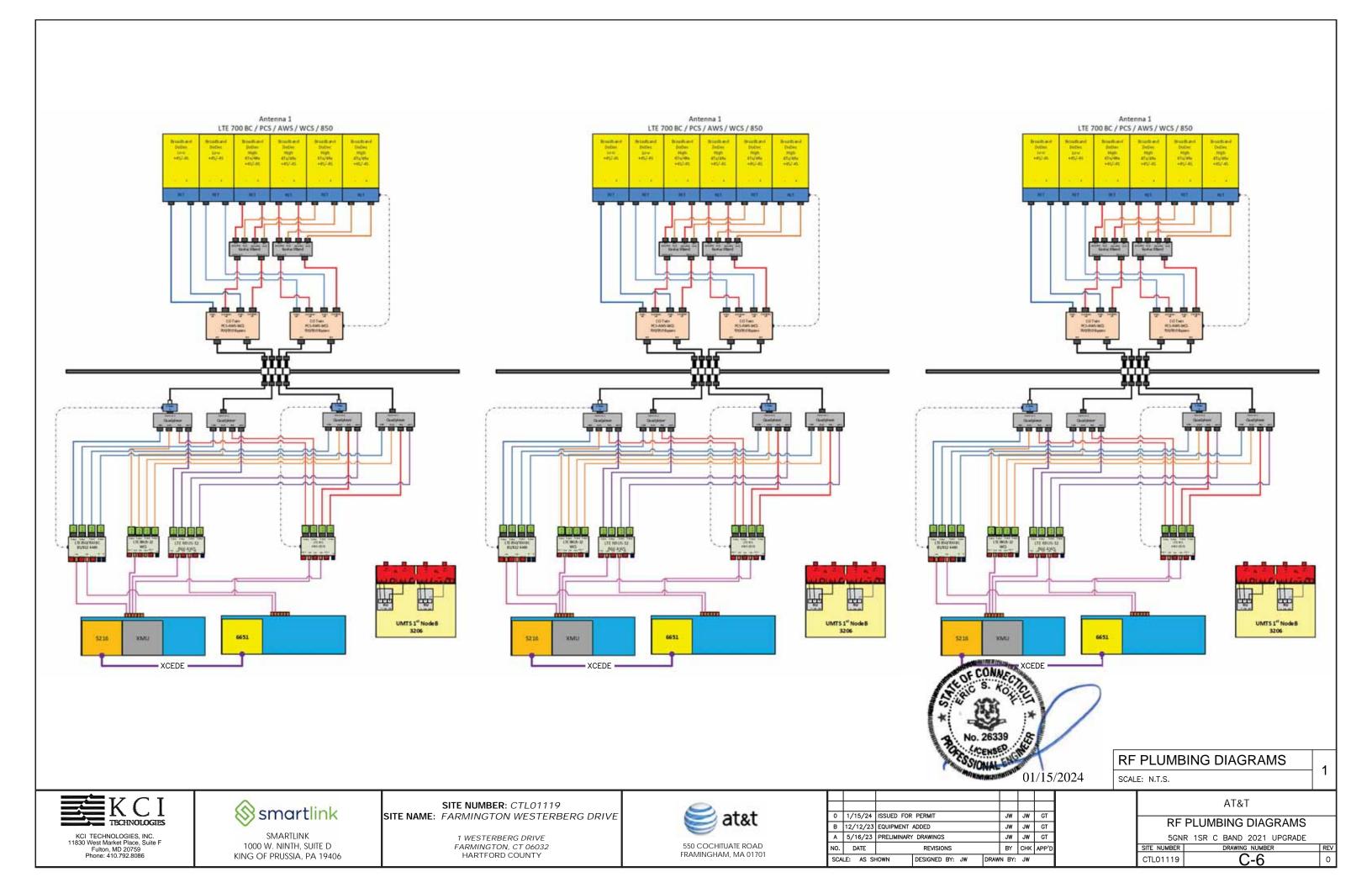
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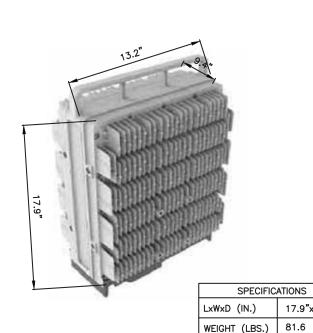
1 WESTERBERG DRIVE FARMINGTON, CT 06032 HARTFORD COUNTY



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PROPOSED 4449 B5/B12 RRH

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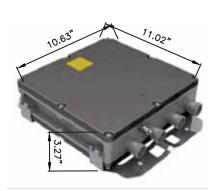
17.9"x13.2"x9.4"

SCALE: N.T.S.



SPECIFIC	ATIONS
LxWxD (IN.)	16.5"x13.4"x5.9"
WEIGHT (LBS.)	46

PROPOSED 4415 B25 RRH SCALE: N.T.S.



SPEC	CIFICATIONS
LxWxD (IN.)	10.63"x11.02"x3.27"
WEIGHT (LBS.)	20

PROPOSED CCI DTMABP0723VG12A TMA

SCALE: N.T.S.



SPEC	CIFICATIONS
LxWxD (IN.)	10.96"x8.78"x3.52"
WEIGHT (LBS.)	15.4

PROPOSED KMTCV00810010/02 SCALE: N.T.S.



SPECIFIC	ATIONS
HxWxD (IN.)	1.61"x3.33"x9.94"
WEIGHT (LBS.)	2.49

VERTIV -48V RECTIFIER DETAIL

SCALE: N.T.S.

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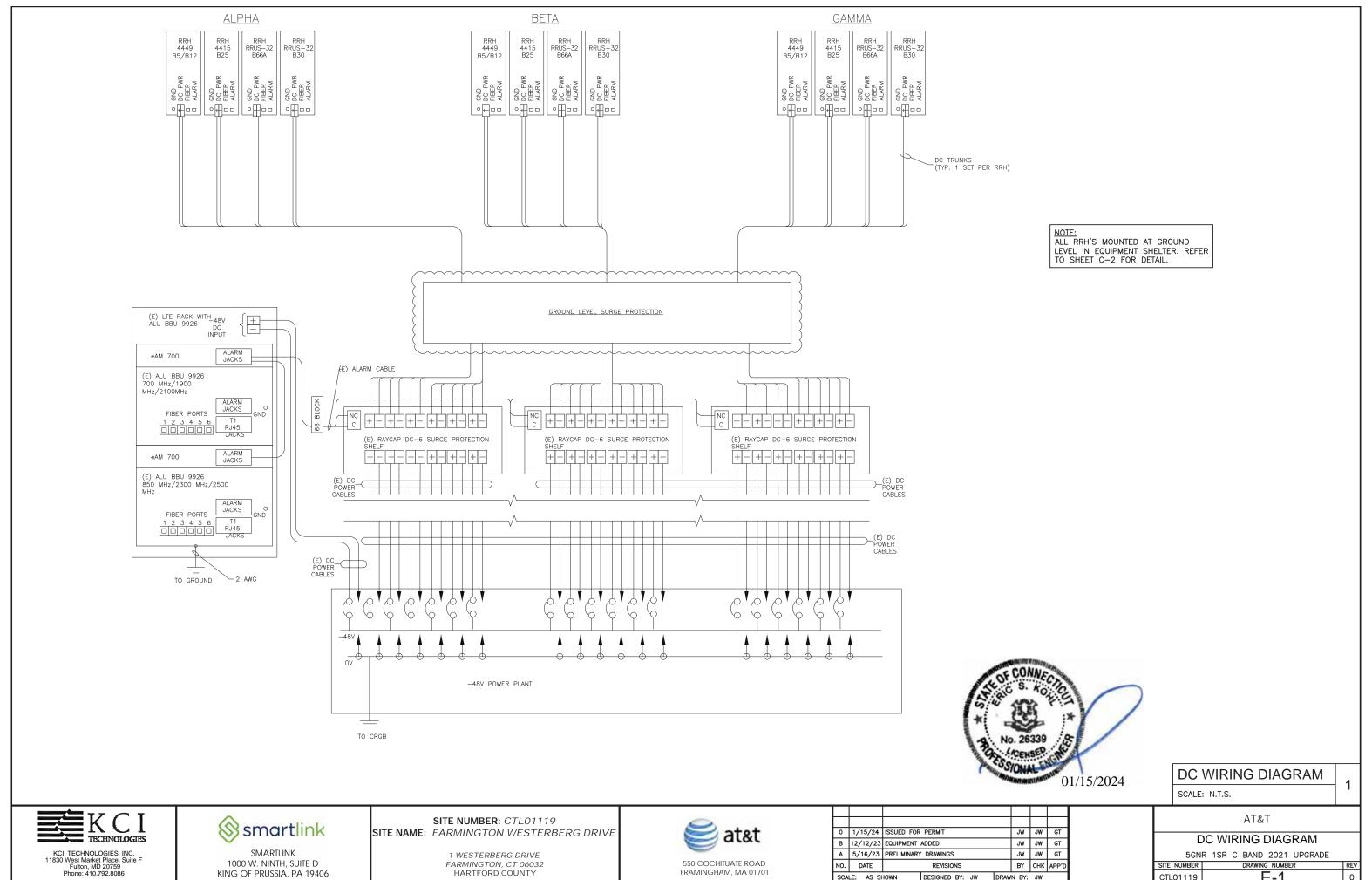
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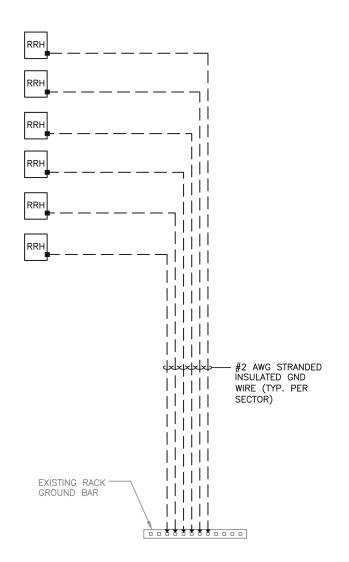
0	1/15/24	ISSUED FOR	PERMIT			JW	JW	GT
В	12/12/23	EQUIPMENT	ADDED			JW	JW	GT
Α	5/16/23	PRELIMINARY	DRAWINGS			JW	JW	GT
NO.	DATE		REVISIONS			BY	снк	APP'D
SCA	LE: AS SI	HOWN	DESIGNED BY:	JW	DRAW	N BY:	JW	

CTL01119

AT&T STANDARDS TO REFER TO:
ATT-CEM-23001
ATT-TP-76416
ATT-TP-76300
ATT-CEM-18002
ATT-002-290-531
ATT-002-290-701 ATT-002-290-701

CONNECTION LEGEND:

■ MECHANICAL CONNECTION



EXISTING GROUND PROVIDE NO-OX -BETWEEN LUGS, S.S. HARDWARE, -LOCK WASHER AND GROUND BAR FLAT WASHER-TWO-HOLE, TINNED, COPPER LUG GROUND -CONDUCTOR **FRONT** <u>REAR</u> CONDUCTOR CONNECTION

SCALE: N.T.S.

#2 AWG GREEN —— INSULATED STRANDED COPPER WIRE (INTERIOR BRACKET OR
EQUIV. 2'-0" ON
CENTER MAX.
SPACING GROUNDING RING) T&B CO. "C-TAP" CAT. — #54370 CRIMP TYPE PARALLEL TAP OR EQUIV. DIRECTION OF BOND TO — TURN TO SHORTEST DISTANCE TO HATCHPLATE #6 AWG GREEN INSULATED STRANDED COPPER WIRE (UNIT BOND) T&B "TY-RAP" CAT. TY25M CABLE TIE OR EQUIV.

GROUNDING WIRE CONNECTION

RRH GROUNDING PLAN

SCALE: N.T.S.

TECHNOLOGIES

KCI TECHNOLOGIES, INC. 11830 West Market Place, Suite F Fulton, MD 20759 Phone: 410.792.8086

SMARTLINK 1000 W. NINTH, SUITE D KING OF PRUSSIA, PA 19406

SITE NUMBER: CTL01119 SITE NAME: FARMINGTON WESTERBERG DRIVE

HARTFORD COUNTY



FRAMINGHAM, MA 01701

LUG CONNECTION DETAIL

0	1/15/24	ISSUED FOR	SSUED FOR PERMIT				JW	GT
В	12/12/23	EQUIPMENT	EQUIPMENT ADDED			JW	JW	GT
Α	5/16/23	PRELIMINARY	PRELIMINARY DRAWINGS				JW	GT
NO.	DATE	DATE REVISIONS				BY	СНК	APP'D
SCALE: AS SHOWN			DESIGNED BY	: JW	DRAW	N BY:	JW	

01/15/2024 SCALE: N.T.S.

LICENSED.

AT&T **GROUNDING DETAILS** DRAWING NUMBER

smartlink

1 WESTERBERG DRIVE FARMINGTON, CT 06032

5GNR 1SR C BAND 2021 UPGRADE SITE NUMBER CTL01119





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SHOPRUNNER by Fedex Fed READY TO SHOP AGAIN? SAVE ON YOUR NEXT ORDER.

DELIVERED

Monday

2/5/24 at 10:52 AM

Your package was released as requested and safely delivered.

Signed for by: Signature release on file



DELIVERY STATUS



TRACKING ID

775027861898 🧷 🏠 📋



FROM

Smartlink LLC Carolyn Seeley 6 Jasmine Rd Oxford, MA US 01540 9787605577

Label Created 1/31/24 8:03 PM

WE HAVE YOUR PACKAGE

WEST BOYLSTON, MA 2/1/24 3:24 PM

ON THE WAY

WINDSOR LOCKS, CT 2/5/24 6:41 AM

OUT FOR DELIVERY

WINDSOR LOCKS, CT 2/5/24 8:23 AM

DELIVERED

Kathleen A. Blonski Town of Farmington 1 MONTIETH DR FARMINGTON, CT US 06032 8606752300

Delivered 2/5/24 at 10:52 AM





SUBMIT YOUR EMAIL MORE OPTIONS Manage Delivery Shipment facts Shipment overview **TRACKING NUMBER** 775027861898 SHIPPER REFERENCE CTL01119 **SHIP DATE** ? 2/1/24 **STANDARD TRANSIT** ? 2/5/24 before 5:00 PM ACTUAL DELIVERY 2/5/24 at 10:52 AM Services **SERVICE** FedEx 2Day TERMS Shipper SPECIAL HANDLING SECTION Deliver Weekday Package details **WEIGHT** 0.5 lbs / 0.23 kgs TOTAL PIECES 1 TOTAL SHIPMENT WEIGHT 0.5 lbs / 0.23 kgs PACKAGING FedEx Envelope

↑ Back to to

Travel history





Local Scan Time

Wednesday, 1/31/24

• 8:03 PM

Shipment information sent to FedEx

Thursday, 2/1/24

• 3:24 PM

Picked up

WEST BOYLSTON, MA

3:25 PM
 Shipment arriving On-Time
 WEST BOYLSTON, MA

7:38 PM
 Left FedEx origin facility
 WEST BOYLSTON, MA

11:20 PM
 At local FedEx facility
 EAST BOSTON, MA

Friday, 2/2/24

10:06 AM
 Arrived at FedEx hub
 MEMPHIS, TN

3:14 PM
 Departed FedEx hub
 MEMPHIS, TN

6:47 PM
 At destination sort facility
 EAST GRANBY, CT

Monday, 2/5/24

6:39 AM
 At local FedEx facility
 WINDSOR LOCKS, CT

6:41 AM
 Shipment arriving On-Time
 WINDSOR LOCKS, CT

8:23 AM
 On FedEx vehicle for delivery
 WINDSOR LOCKS, CT

10:52 AMDeliveredFARMINGTON, CT





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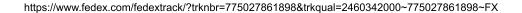
















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SHOP NOW

DELIVERED

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TRACKING ID





FROM

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Label Created 1/31/24 8:05 PM

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ON THE WAY

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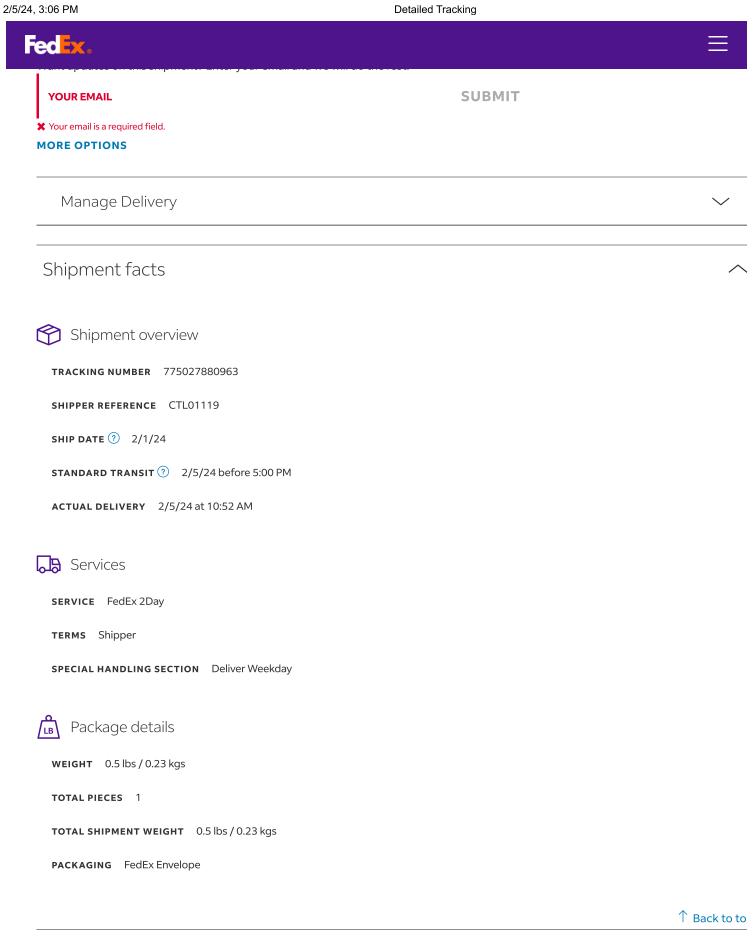
OUT FOR DELIVERY

WINDSOR LOCKS, CT 2/5/24 8:23 AM

DELIVERED

Treatment Plan Town of Farmington 1 MONTIETH DR FARMINGTON, CT US 06032 8606752300

Delivered 2/5/24 at 10:52 AM



Travel history





Local Scan Time

Wednesday, 1/31/24

o 8:05 PM

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3:25 PM
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 On FedEx vehicle for delivery
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10:52 AMDeliveredFARMINGTON, CT





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DELIVERY STATUS



TRACKING ID

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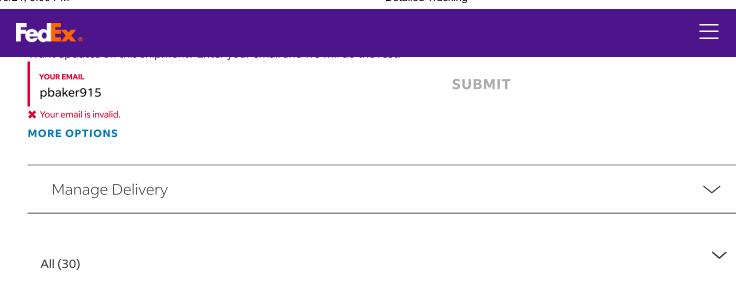
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DELIVERED

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Delivered 2/5/24 at 10:52 AM



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Subject: Relayed: CSC Filing | SBA Site ID: CT46141-A / Water Treatment Plant 2 CT (CTL01119)

Date: Friday, February 16, 2024 10:02:13 AM

Attachments: CSC Filing SBA Site ID CT46141-A Water Treatment Plant 2 CT (CTL01119).msg

Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server: GOneil@sbasite.com (GONeil@sbasite.com) <mailto:GONeil@sbasite.com>
Subject: CSC Filing | SBA Site ID: CT46141-A / Water Treatment Plant 2 CT (CTL01119)