



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

VIA ELECTRONIC MAIL

November 19, 2018

Ryan Lynch
Real Estate Specialist
Smartlink, LLC
85 Rangeway Road, Building 3, Suite 102
North Billerica, MA 01862

RE: **EM-AT&T-049-181031** – AT&T notice of intent to modify an existing telecommunications facility located at 77 Town Farm Road, Enfield, Connecticut.

Dear Mr. Lynch:

The Connecticut Siting Council (Council) is in receipt of your correspondence of November 15, 2018 submitted in response to the Council's November 1, 2018 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

The submission renders the request for exempt modification complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

A handwritten signature in blue ink, appearing to read "Melanie A. Bachman".

Melanie A. Bachman
Executive Director

MAB/CMW/emr



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November 1, 2018

Ryan Lynch
Real Estate Specialist
Smartlink, LLC
85 Rangeway Road, Building 3, Suite 102
North Billerica, MA 01862

RE: **EM-AT&T-049-181031** – AT&T notice of intent to modify an existing telecommunications facility located at 77 Town Farm Road, Enfield, Connecticut.

Dear Mr. Lynch:

The Connecticut Siting Council (Council) received a notice of intent to modify the above-referenced facility on October 31, 2018.

According to Section 16-50j-71 of the Regulations of Connecticut State Agencies, "...any modification, as defined in Section 16-50j-2a of the Regulations of Connecticut State Agencies, to an existing tower site, except as specified in Sections 16-50j-72 and 16-50j-88 of the Regulations of Connecticut State Agencies, may have a substantial adverse environmental effect."

Staff has reviewed this exempt modification request for completeness and has identified inconsistencies with the proposed equipment schedule. The Structural Analysis Report provided is prepared by American Tower Corporation, dated July 11, 2018 and indicates the removal of six antennas and three remote radio units and the installation of six antennas and three remote radio units. The Construction Drawings prepared by Infinigy and dated October 17, 2018 indicates the removal of three antennas and three remote radio units, the relocation of three antennas, the installation of nine remote radio units and the installation of three antennas. The cover letter indicates the replacement of three antennas and the installation of six remote radio units. This is inconsistent and thus the extent of the proposed modification is unclear.

Therefore, the exempt modification request is incomplete at this time. The Council recommends that Smartlink provide clarification on the inconsistencies highlighted above and the corrected supporting documents, on or before December 7, 2018. If additional time is needed to gather the requested information, please submit a written request for an extension of time prior to December 7, 2018.

This notice of incompleteness shall have the effect of tolling the Federal Communications Commission (FCC) 60-day timeframe in accordance with Paragraph 217 of the FCC Wireless Infrastructure Report and Order issued on October 21, 2014 (FCC 14-153).

Thank you for your attention to this matter. Should you have any questions, please feel free to contact me at 860-827-2951.

Sincerely,

Melanie Bachman
Executive Director

MAB/FOC/IN

c: The Honorable Michael Ludwick, Mayor, Town of Enfield
Christopher W. Bromson, Town Manager, Town of Enfield
Raquel Ocasio, Assistant Town Planner, Town of Enfield

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Robidoux, Evan

From: Ryan Lynch <ryan.lynch@smartlinkllc.com>
Sent: Thursday, November 15, 2018 4:29 PM
To: CSC-DL Siting Council
Subject: EM-AT&T-049-181031 - Response to Incomplete Letter
Attachments: CTL01021_Response to Incomplete letter_181115.pdf; 10034985_AE201_181113_CTL01021_REV3.pdf

Good Afternoon,

Please see the attached response to the notice of incomplete received on November 1, 2018, as well as the revised construction drawings reflecting the needed change.

Please let me know if you need anything further from me regarding this matter.

Thank you,



Ryan Lynch | Real Estate & Construction Specialist

Smartlink

85 Rangeway Rd.
Building 3, Suite 102
North Billerica, MA 01862
(m) 781.392.4040



11/5/2018

Melanie Bachman
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RE: **EM-AT&T-049-181031**

AT&T notice of intent to modify an existing telecommunications facility located at 77
Town Farm Road, Enfield, Connecticut
AT&T Site Name: Enfield Town Farm Road
AT&T Site No.: CTL01021 / FA# 10034985

Dear Ms. Bachman:

In response to the incomplete letter dated November 1, 2018 regarding the above-referenced exempt modification filing, I would like to offer the following explanation.

The structural analysis provided by American Tower shows conflicting information regarding the proposed scope of work, because the changes are pulled directly from the submitted colocation application. Colocation applications often have existing lease entitlements that prevent the need for the adding of more equipment. In this instance, AT&T was already leased for certain remote radio units that it intends to install. Additionally, a model number for three antennas was corrected on the application, which causes this to be considered as removing and adding on the structural loading page. The structural analysis also does not take into consideration remote radio units being installed within shelter space on the ground.

The construction drawings submitted as part of the filing produced by Infinigy, dated 10/17/2018 did have an error, as the RRUS 4478 B5 will be installed in the shelter, not on the tower. I have enclosed the revised drawings. The final scope of work for what will be installed on the tower will be the following:

- Remove (3) panel antennas
- Install (3) panel antennas
- Remove (3) RRUS-12 w/ A2 module
- Install (3) B25/B66A 8843 RRUS
- Install (3) RRUS-32
- Install (1) DC-6 Squid w/ (1) Fiber and (2) DC Cables
- Install (6) Low band combiners

Smartlink, LLC
85 Rangeway Road, Building 3, Suite 102
Billerica, MA 01862



Please contact me with any further questions or concerns regarding this matter.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ryan Lynch'.

Ryan Lynch
Real Estate Specialist
Smartlink, LLC
85 Rangeway Rd
Building 3, Suite 102
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GENERAL NOTES

PART 1 – GENERAL REQUIREMENTS

- 1.1 THE WORK SHALL COMPLY WITH APPLICABLE NATIONAL CODES AND STANDARDS, LATEST EDITION, AND PORTIONS THEREOF, INCLUDED BUT NOT LIMITED TO THE FOLLOWING:
- A. GR-63-CORE NEBS REQUIREMENTS: PHYSICAL PROTECTION
 - B. GR-78-CORE GENERIC REQUIREMENTS FOR THE PHYSICAL DESIGN AND MANUFACTURE OF TELECOMMUNICATIONS EQUIPMENT.
 - C. NATIONAL FIRE PROTECTION ASSOCIATION CODES AND STANDARDS (NFPA) INCLUDING NFPA 70 (NATIONAL ELECTRICAL CODE – "NEC"), D. AND NFPA 101 (LIFE SAFETY CODE).
 - E. AMERICAN SOCIETY FOR TESTING OF MATERIALS (ASTM).
 - F. INSTITUTE OF ELECTRONIC AND ELECTRICAL ENGINEERS (IEEE).
- 1.2 DEFINITIONS:
- A. WORK: THE SUM OF TASKS AND RESPONSIBILITIES IDENTIFIED IN THE CONTRACT DOCUMENTS.
 - B. COMPANY: AT&T CORPORATION
 - C. ENGINEER: SYNONYMOUS WITH ARCHITECT & ENGINEER AND "A&E", THE DESIGN PROFESSIONAL HAVING PROFESSIONAL RESPONSIBILITY FOR DESIGN OF THE PROJECT.
 - D. CONTRACTOR: CONSTRUCTION CONTRACTOR; CONSTRUCTION VENDOR; INDIVIDUAL OR ENTITY WHO AFTER EXECUTION OF A CONTRACT IS BOUND TO ACCOMPLISH THE WORK.
 - E. THIRD PARTY VENDOR OR AGENCY: A VENDOR OR AGENCY ENGAGED SEPARATELY BY THE COMPANY, A&E, OR CONTRACTOR TO PROVIDE MATERIALS OR TO ACCOMPLISH SPECIFIC TASKS RELATED TO BUT NOT INCLUDED IN THE WORK.
- 1.3 POINT OF CONTACT: COMMUNICATION BETWEEN THE COMPANY AND THE CONTRACTOR SHALL FLOW THROUGH THE SINGLE COMPANY SITE DEVELOPMENT SPECIALIST OR OTHER PROJECT COORDINATOR APPOINTED TO MANAGE THE PROJECT FOR THE COMPANY.
- 1.4 ON-SITE SUPERVISION: THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL EMPLOY A COMPETENT SUPERINTENDENT WHO SHALL BE IN ATTENDANCE AT THE SITE AT ALL TIMES DURING PERFORMANCE OF THE WORK.
- 1.5 DRAWINGS, SPECIFICATIONS AND DETAILS REQUIRED AT JOBSITE: THE CONSTRUCTION CONTRACTOR SHALL MAINTAIN A FULL SET OF THE CONSTRUCTION DRAWINGS, STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES, AND THE STANDARD CONSTRUCTION SPECIFICATIONS FOR WIRELESS SITES AT THE JOBSITE FROM MOBILIZATION THROUGH CONSTRUCTION COMPLETION.
- A. THE JOBSITE DRAWINGS, SPECIFICATIONS AND DETAILS SHALL BE CLEARLY MARKED DAILY IN PENCIL WITH ANY CHANGES IN CONSTRUCTION OVER WHAT IS DEPICTED IN THE DOCUMENTS. AT CONSTRUCTION COMPLETION, THIS JOBSITE MARKUP SET SHALL BE DELIVERED TO THE COMPANY OR COMPANY'S DESIGNATED REPRESENTATIVE TO BE FORWARDED TO THE COMPANY'S A&E VENDOR FOR PRODUCTION OF "AS-BUILT" DRAWINGS.
- 1.6 USE OF JOB SITE: THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION AND RELATED OPERATIONS INCLUDING STAGING AND STORAGE OF MATERIALS AND EQUIPMENT, PARKING, TEMPORARY FACILITIES, AND WASTE STORAGE TO THE LEASE PARCEL UNLESS OTHERWISE PERMITTED BY THE CONTRACT DOCUMENTS.
- 1.7 NOTICE TO PROCEED:
- A. NO WORK SHALL COMMENCE PRIOR TO COMPANY'S WRITTEN NOTICE TO PROCEED.
 - B. UPON RECEIVING NOTICE TO PROCEED, CONTRACTOR SHALL FULLY PERFORM ALL WORK NECESSARY TO PROVIDE AT&T WITH AN OPERATIONAL WIRELESS FACILITY.

PART 2 – EXECUTION

- 2.1 TEMPORARY UTILITIES AND FACILITIES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY UTILITIES AND FACILITIES NECESSARY EXCEPT AS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS. TEMPORARY UTILITIES AND FACILITIES INCLUDE, POTABLE WATER, HEAT, HVAC, ELECTRICITY, SANITARY FACILITIES, WASTE DISPOSAL FACILITIES, AND TELEPHONE/COMMUNICATION SERVICES. PROVIDE TEMPORARY UTILITIES AND FACILITIES IN ACCORDANCE WITH OSHA AND THE AUTHORITY HAVING JURISDICTION. CONTRACTOR MAY UTILIZE THE COMPANY ELECTRICAL SERVICE IN THE COMPLETION OF THE WORK WHEN IT BECOMES AVAILABLE. USE OF THE LESSORS OR SITE OWNER'S UTILITIES OR FACILITIES IS EXPRESSLY FORBIDDEN EXCEPT AS OTHERWISE ALLOWED IN THE CONTRACT DOCUMENTS.
- 2.2 ACCESS TO WORK: THE CONTRACTOR SHALL PROVIDE ACCESS TO THE JOB SITE FOR AUTHORIZED COMPANY PERSONNEL AND AUTHORIZED REPRESENTATIVES OF THE ARCHITECT/ENGINEER DURING ALL PHASES OF THE WORK.
- 2.3 TESTING: REQUIREMENTS FOR TESTING BY THIS CONTRACTOR SHALL BE AS INDICATED HEREWITH, ON THE CONSTRUCTION DRAWINGS, AND IN THE INDIVIDUAL SECTIONS OF THESE SPECIFICATIONS. SHOULD COMPANY CHOOSE TO ENGAGE ANY THIRD-PARTY TO CONDUCT ADDITIONAL TESTING, THE CONTRACTOR SHALL COOPERATE WITH AND PROVIDE A WORK AREA FOR COMPANY'S TEST AGENCY.

- 2.4 COMPANY FURNISHED MATERIAL AND EQUIPMENT: ALL HANDLING, STORAGE AND INSTALLATION OF COMPANY FURNISHED MATERIAL AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- A. CONTRACTOR SHALL PROCURE ALL OTHER REQUIRED WORK RELATED MATERIALS NOT PROVIDED BY AT&T TO SUCCESSFULLY CONSTRUCT A WIRELESS FACILITY.
- 2.5 DIMENSIONS: VERIFY DIMENSIONS INDICATED ON DRAWINGS WITH FIELD DIMENSIONS BEFORE FABRICATION OR ORDERING OF MATERIALS. DO NOT SCALE DRAWINGS.
- 2.6 EXISTING CONDITIONS: NOTIFY THE COMPANY REPRESENTATIVE OF EXISTING CONDITIONS DIFFERING FROM THOSE INDICATED ON THE DRAWINGS. DO NOT REMOVE OR ALTER STRUCTURAL COMPONENTS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND ENGINEER.

PART 3 – RECEIPT OF MATERIAL & EQUIPMENT

- 3.1 RECEIPT OF MATERIAL AND EQUIPMENT: CONTRACTOR IS RESPONSIBLE FOR AT&T PROVIDED MATERIAL AND EQUIPMENT AND UPON RECEIPT SHALL:
- A. ACCEPT DELIVERIES AS SHIPPED AND TAKE RECEIPT.
 - B. VERIFY COMPLETENESS AND CONDITION OF ALL DELIVERIES.
 - C. TAKE RESPONSIBILITY FOR EQUIPMENT AND PROVIDE INSURANCE PROTECTION AS REQUIRED IN AGREEMENT.
 - D. RECORD ANY DEFECTS OR DAMAGES AND WITHIN TWENTY-FOUR HOURS AFTER RECEIPT, REPORT TO AT&T OR ITS DESIGNATED PROJECT REPRESENTATIVE OF SUCH.
 - E. PROVIDE SECURE AND NECESSARY WEATHER PROTECTED WAREHOUSING.
 - F. COORDINATE SAFE AND SECURE TRANSPORTATION OF MATERIAL AND EQUIPMENT, DELIVERING AND OFF-LOADING FROM CONTRACTOR'S WAREHOUSE TO SITE.

PART 4 – GENERAL REQUIREMENTS FOR CONSTRUCTION

- 4.1 CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL REMOVE FROM THE SITE ALL REMAINING RUBBISH, IMPLEMENTS, TEMPORARY FACILITIES, AND SURPLUS MATERIALS.
- 4.2 EQUIPMENT ROOMS SHALL AT ALL TIMES BE MAINTAINED "BROOM CLEAN" AND CLEAR OF DEBRIS.
- 4.3 CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO DISCOVER AND LOCATE ANY HAZARDOUS CONDITION.
- A. IN THE EVENT CONTRACTOR ENCOUNTERS ANY HAZARDOUS CONDITION WHICH HAS NOT BEEN ABATED OR OTHERWISE MITIGATED, CONTRACTOR AND ALL OTHER PERSONS SHALL IMMEDIATELY STOP WORK IN THE AFFECTED AREA AND NOTIFY COMPANY IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED EXCEPT BY WRITTEN NOTIFICATION BY COMPANY.
 - B. CONTRACTOR AGREES TO USE CARE WHILE ON THE SITE AND SHALL NOT TAKE ANY ACTION THAT WILL OR MAY RESULT IN OR CAUSE THE HAZARDOUS CONDITION TO BE FURTHER RELEASED IN THE ENVIRONMENT, OR TO FURTHER EXPOSE INDIVIDUALS TO THE HAZARD.
- 4.4 CONTRACTOR'S ACTIVITIES SHALL BE RESTRICTED TO THE PROJECT LIMITS. SHOULD AREAS OUTSIDE THE PROJECT LIMITS BE AFFECTED BY CONTRACTOR'S ACTIVITIES, CONTRACTOR SHALL IMMEDIATELY RETURN THEM TO ORIGINAL CONDITION.
- 4.5 CONDUCT TESTING AS REQUIRED HEREIN.

PART 5 – TESTS AND INSPECTIONS

- 5.1 TESTS AND INSPECTIONS:
- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION TESTS, INSPECTIONS AND PROJECT DOCUMENTATION.
 - B. CONTRACTOR SHALL COORDINATE TEST AND INSPECTION SCHEDULES WITH COMPANY'S REPRESENTATIVE WHO MUST BE ON SITE TO WITNESS SUCH TESTS AND INSPECTIONS.
 - C. WHEN THE USE OF A THIRD PARTY INDEPENDENT TESTING AGENCY IS REQUIRED, THE AGENCY THAT IS SELECTED MUST PERFORM SUCH WORK ON A REGULAR BASIS IN THE STATE WHERE THE PROJECT IS LOCATED AND HAVE A THOROUGH UNDERSTANDING OF LOCAL AVAILABLE MATERIALS, INCLUDING THE SOIL, ROCK, AND GROUNDWATER CONDITIONS.
 - D. THE THIRD PARTY TESTING AGENCY IS TO BE FAMILIAR WITH THE APPLICABLE REQUIREMENTS FOR THE TESTS TO BE DONE, EQUIPMENT TO BE USED, AND ASSOCIATED HEALTH AND SAFETY ISSUES.
 - E. SITE RESISTANCE TO EARTH TESTING PER EXHIBIT: CELL SITE GROUNDING SYSTEM DESIGN.

- F. ANTENNA AND COAX SWEEP TESTS PER EXHIBIT: ANTENNA TRANSMISSION LINE ACCEPTANCE STANDARDS.
- G. ALL OTHER TESTS REQUIRED BY COMPANY OR JURISDICTION.

PART 6 – TRENCHING AND BACKFILLING

- 6.1 TRENCHING AND BACKFILLING: THE CONTRACTOR SHALL PERFORM ALL EXCAVATION OF EVERY DESCRIPTION AND OF WHATEVER SUBSTANCES ENCOUNTERED, TO THE DEPTHS INDICATED ON THE CONSTRUCTION DRAWINGS OR AS OTHERWISE SPECIFIED.
- A. PROTECTION OF EXISTING UTILITIES: THE CONTRACTOR SHALL CHECK WITH THE LOCAL UTILITIES AND THE RESPECTIVE UTILITY LOCATOR COMPANIES PRIOR TO STARTING EXCAVATION OPERATIONS IN EACH RESPECTIVE AREA TO ASCERTAIN THE LOCATIONS OF KNOWN UTILITY LINES. THE LOCATIONS, NUMBER AND TYPES OF EXISTING UTILITY LINES DETAILED ON THE CONSTRUCTION DRAWINGS ARE APPROXIMATE AND DO NOT REPRESENT EXACT INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL LINES DAMAGED DURING EXCAVATION AND ALL ASSOCIATED OPERATIONS. ALL UTILITY LINES UNCOVERED DURING THE EXCAVATION OPERATIONS, SHALL BE PROTECTED FROM DAMAGE DURING EXCAVATION AND ASSOCIATED OPERATIONS. ALL REPAIRS SHALL BE APPROVED BY THE UTILITY COMPANY.
 - B. HAND DIGGING: UNLESS APPROVED IN WRITING OTHERWISE, ALL DIGGING WITHIN AN EXISTING CELL SITE COMPOUND IS TO BE DONE BY HAND.
 - C. DURING EXCAVATION, MATERIAL SUITABLE FOR BACKFILLING SHALL BE STOCKPILED IN AN ORDERLY MANNER A SUFFICIENT DISTANCE FROM THE BANKS OF THE TRENCH TO AVOID OVERLOADING AND TO PREVENT SLIDES OR CAVE-INS. ALL EXCAVATED MATERIALS NOT REQUIRED OR SUITABLE FOR BACKFILL SHALL BE REMOVED AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
 - D. GRADING SHALL BE DONE AS MAY BE NECESSARY TO PREVENT SURFACE WATER FROM FLOWING INTO TRENCHES OR OTHER EXCAVATIONS, AND ANY WATER ACCUMULATING THEREIN SHALL BE REMOVED BY PUMPING OR BY OTHER APPROVED METHOD.
 - E. SHEETING AND SHORING SHALL BE DONE AS NECESSARY FOR THE PROTECTION OF THE WORK AND FOR THE SAFETY OF PERSONNEL. UNLESS OTHERWISE INDICATED, EXCAVATION SHALL BE BY OPEN CUT, EXCEPT THAT SHORT SECTIONS OF A TRENCH MAY BE TUNNELED IF, THE CONDUIT CAN BE SAFELY AND PROPERLY INSTALLED AND BACKFILL CAN BE PROPERLY TAMPED IN SUCH TUNNEL SECTIONS. EARTH EXCAVATION SHALL COMPRISE ALL MATERIALS AND SHALL INCLUDE CLAY, SILT, SAND, MUCK, GRAVEL, HARDPAN, LOOSE SHALE, AND LOOSE STONE.
 - F. TRENCHES SHALL BE OF NECESSARY WIDTH FOR THE PROPER LAYING OF THE CONDUIT OR CABLE, AND THE BANKS SHALL BE AS NEARLY VERTICAL AS PRACTICABLE. THE BOTTOM OF THE TRENCHES SHALL BE ACCURATELY GRADED TO PROVIDE UNIFORM BEARING AND SUPPORT FOR EACH SECTION OF THE CONDUIT OR CABLE ON UNDISTURBED SOIL AT EVERY POINT ALONG ITS ENTIRE LENGTH. EXCEPT WHERE ROCK IS ENCOUNTERED, CARE SHALL BE TAKEN NOT TO EXCAVATE BELOW THE DEPTHS INDICATED. WHERE ROCK EXCAVATIONS ARE NECESSARY, THE ROCK SHALL BE EXCAVATED TO A MINIMUM OVER DEPTH OF 6 INCHES BELOW THE TRENCH DEPTHS INDICATED ON THE CONSTRUCTION DRAWINGS OR SPECIFIED. OVER DEPTHS IN THE ROCK EXCAVATION AND UNAUTHORIZED OVER DEPTHS SHALL BE THOROUGHLY BACK FILLED AND TAMPED TO THE APPROPRIATE GRADE. WHENEVER WET OR OTHERWISE UNSTABLE SOIL THAT IS INCAPABLE OF PROPERLY SUPPORTING THE CONDUIT OR CABLE IS ENCOUNTERED IN THE BOTTOM OF THE TRENCH, SUCH SOLID SHALL BE REMOVED TO A MINIMUM OVER DEPTH OF 6 INCHES AND THE TRENCH BACKFILLED TO THE PROPER GRADE WITH EARTH OF OTHER SUITABLE MATERIAL, AS HEREINAFTER SPECIFIED.
 - G. BACKFILLING OF TRENCHES. TRENCHES SHALL NOT BE BACKFILLED UNTIL ALL SPECIFIED TESTS HAVE BEEN PERFORMED AND ACCEPTED. WHERE COMPACTED BACKFILL IS NOT INDICATED THE TRENCHES SHALL BE CAREFULLY BACKFILLED WITH SELECT MATERIAL SUCH AS EXCAVATED SOILS THAT ARE FREE OF ROOTS, SOD, RUBBISH OR STONES, DEPOSITED IN 6 INCH LAYERS AND THOROUGHLY AND CAREFULLY RAMMED UNTIL THE CONDUIT OR CABLE HAS A COVER OF NOT LESS THAN 1 FOOT. THE REMAINDER OF THE BACKFILL MATERIAL SHALL BE GRANULAR IN NATURE AND SHALL NOT CONTAIN ROOTS, SOD, RUBBING, OR STONES OF 2-1/2 INCH MAXIMUM DIMENSION. BACKFILL SHALL BE CAREFULLY PLACED IN THE TRENCH AND IN 1 FOOT LAYERS AND EACH LAYER TAMPED. SETTLING THE BACKFILL WITH WATER WILL BE PERMITTED. THE SURFACE SHALL BE GRADED TO A REASONABLE UNIFORMITY AND THE MOUNDING OVER THE TRENCHES LEFT IN A UNIFORM AND NEAT CONDITION.

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER
	NON-FUSIBLE DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
	SURFACE MOUNTED PANEL BOARD
	TRANSFORMER
	KILOWATT HOUR METER
	JUNCTION BOX
	PULL BOX TO NEC/TELCO STANDARDS
	UNDERGROUND UTILITIES
	EXOTHERMIC WELD CONNECTION
	MECHANICAL CONNECTION
	GROUND ROD
	GROUND ROD WITH INSPECTION SLEEVE
	GROUND BAR
	120AC DUPLEX RECEPTACLE
	GROUND CONDUCTOR
	DC POWER AND FIBER OPTIC TRUNK CABLES
	DC POWER CABLES
	REPRESENTS DETAIL NUMBER
	REF. DRAWING NUMBER

ABBREVIATIONS

CIGBE	COAX ISOLATED GROUND BAR EXTERNAL
MIGB	MASTER ISOLATED GROUND BAR
SST	SELF SUPPORTING TOWER
GPS	GLOBAL POSITIONING SYSTEM
TYP.	TYPICAL
DWG	DRAWING
BCW	BARE COPPER WIRE
BFG	BELOW FINISH GRADE
PVC	POLYVINYL CHLORIDE
CAB	CABINET
C	CONDUIT
SS	STAINLESS STEEL
G	GROUND
AWG	AMERICAN WIRE GAUGE
RGS	RIGID GALVANIZED STEEL
AHJ	AUTHORITY HAVING JURISDICTION
TTLNA	TOWER TOP LOW NOISE AMPLIFIER
UNO	UNLESS NOTED OTHERWISE
EMT	ELECTRICAL METALLIC TUBING
AGL	ABOVE GROUND LEVEL

INFINIGY
 1033 Waterlily Street Rd
 Albany, NY 12205
 Office #: (518) 860-0750
 Fax #: (518) 860-0750

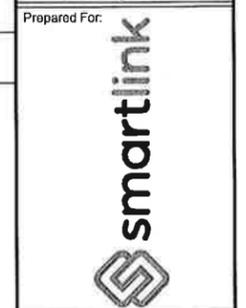


No.	Submital / Revision	App'd	Date
3	REVISED FOR PERMIT	BNM	11/13/18
2	REVISED FOR PERMIT	BNM	10/17/18
1	ISSUED FOR PERMIT	BNM	09/12/18
0	ISSUED FOR REVIEW	RCD	07/09/18

Drawn: RCD Date: 07/09/18
 Designed: RCD Date: 07/09/18
 Checked: RCD Date: 07/09/18

Project Number: 499-006

Project Title:
ENFIELD-TOWN FARM RD
CTL01021
FA# 10034985
 TOWN FARM ROAD
 ENFIELD, CT 06082



Drawing Scale: AS NOTED

Date: 11/13/18

CD

Drawing Title:
GENERAL NOTES

Drawing Number:
C1

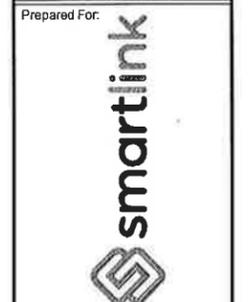


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Drawn: ROD Date: 07/09/18
 Designed: ROD Date: 07/09/18
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Project Number: 499-006

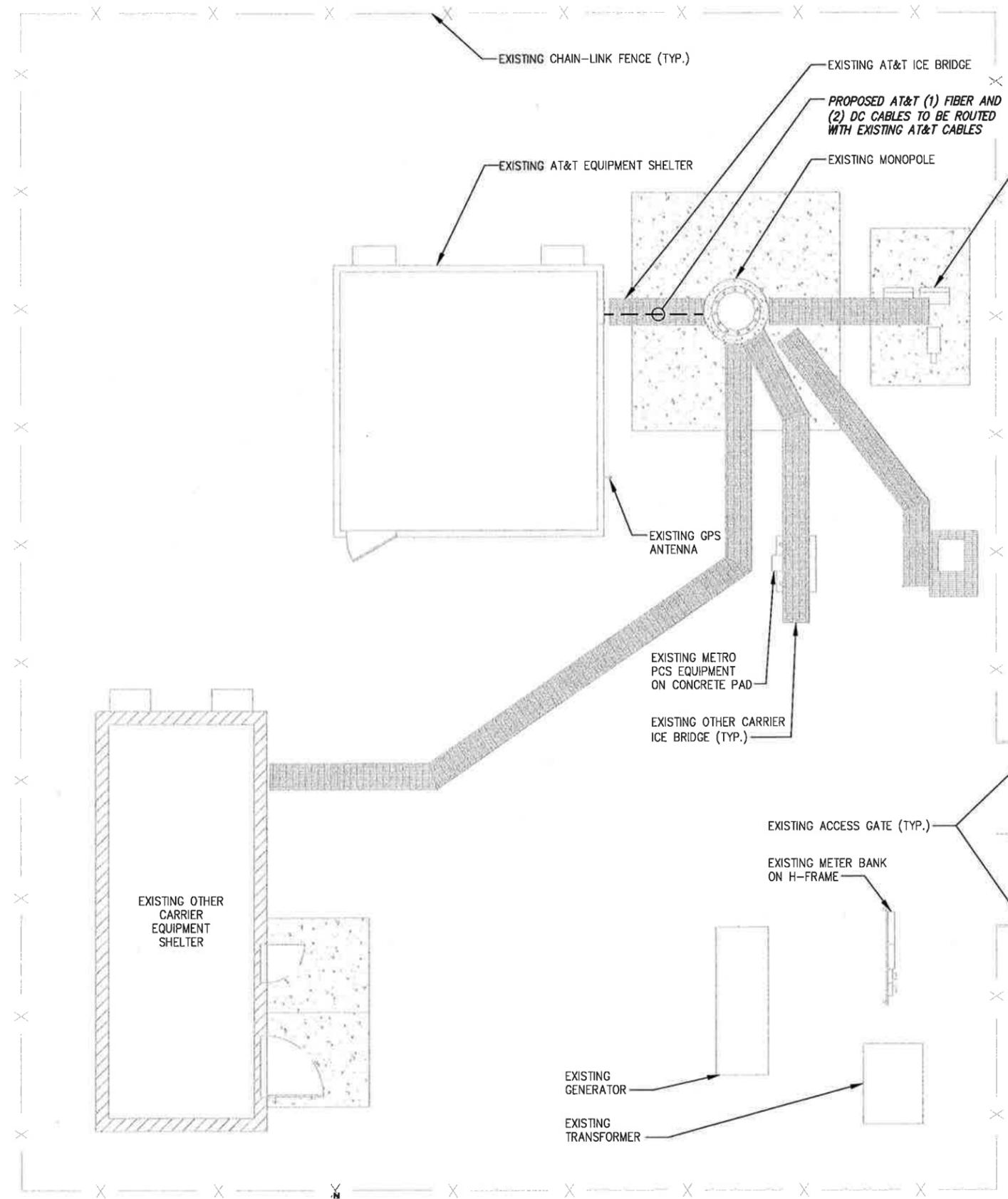
Project Title: **ENFIELD-TOWN FARM RD**
CTL01021
FA# 10034985
 TOWN FARM ROAD
 ENFIELD, CT 06082



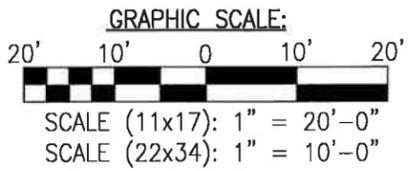
Drawing Scale: AS NOTED
 Date: 11/13/18
CD

Drawing Title: **OVERALL & ENLARGED SITE PLAN**

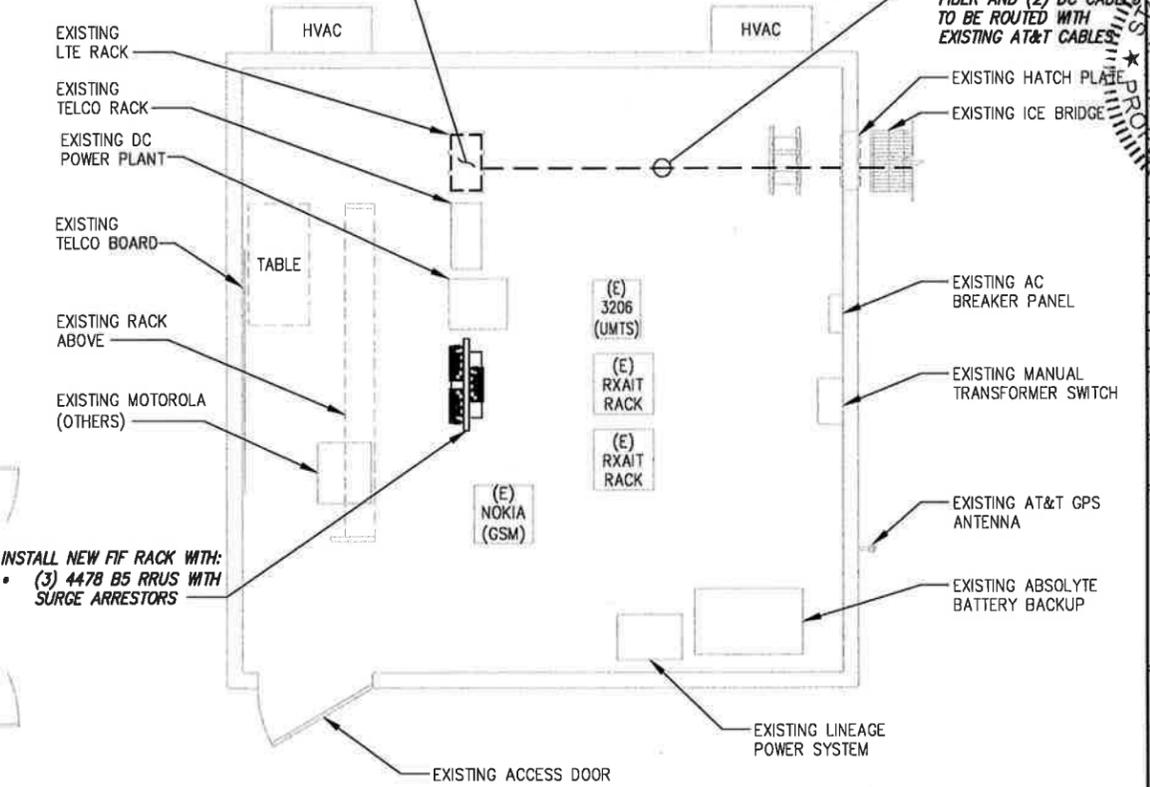
Drawing Number: **C2**



1 OVERALL COMPOUND PLAN
 SCALE: AS NOTED

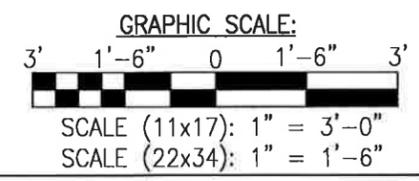


EXISTING PURCELL CABINET,
 • INSTALL (2) XMU UPGRADE DUS WITH (1) 5216
 • INSTALL (1) 6630



INSTALL NEW FIF RACK WITH:
 • (3) 4478 B5 RRUS WITH SURGE ARRESTORS

2 ENLARGED EQUIPMENT PLAN
 SCALE: AS NOTED



BASEMAPPING PREPARED FROM A SITE WALK PERFORMED BY INFINIGY ENGINEERING ON 05/22/18 AND PROVIDED INFORMATION, AND DOES NOT REPRESENT AN ACTUAL FIELD SURVEY.

TRUE NORTH

TRUE NORTH

NOTE:

- INFINIGY ENGINEERING HAS NOT EVALUATED THE EXISTING TOWER FOR THIS SITE, AND ASSUMES NO RESPONSIBILITY FOR ITS EXISTING OR PROPOSED LOADING. FINAL INSTALLATION TO COMPLY WITH RESULTS OF PASSING STRUCTURAL ANALYSIS.
- SEE 'MOUNT ANALYSIS REPORT' REPORT COMPLETED BY INFINIGY DATED 09/07/18. THE EXISTING MOUNTS ARE TO BE REPLACED PRIOR TO THE INSTALLATION OF THE PROPOSED EQUIPMENT.

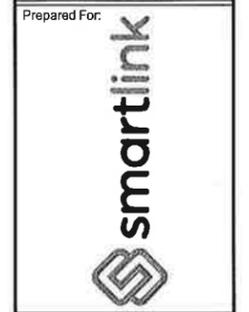
INFINIGY
 1033 Watermill Shaker Rd
 Albany, NY 12205
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 Fax # (518) 690-0793



No.	Submittal / Revision	App'd	Date
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 Checked: RCO Date: 07/09/18
 Project Number: 499-006

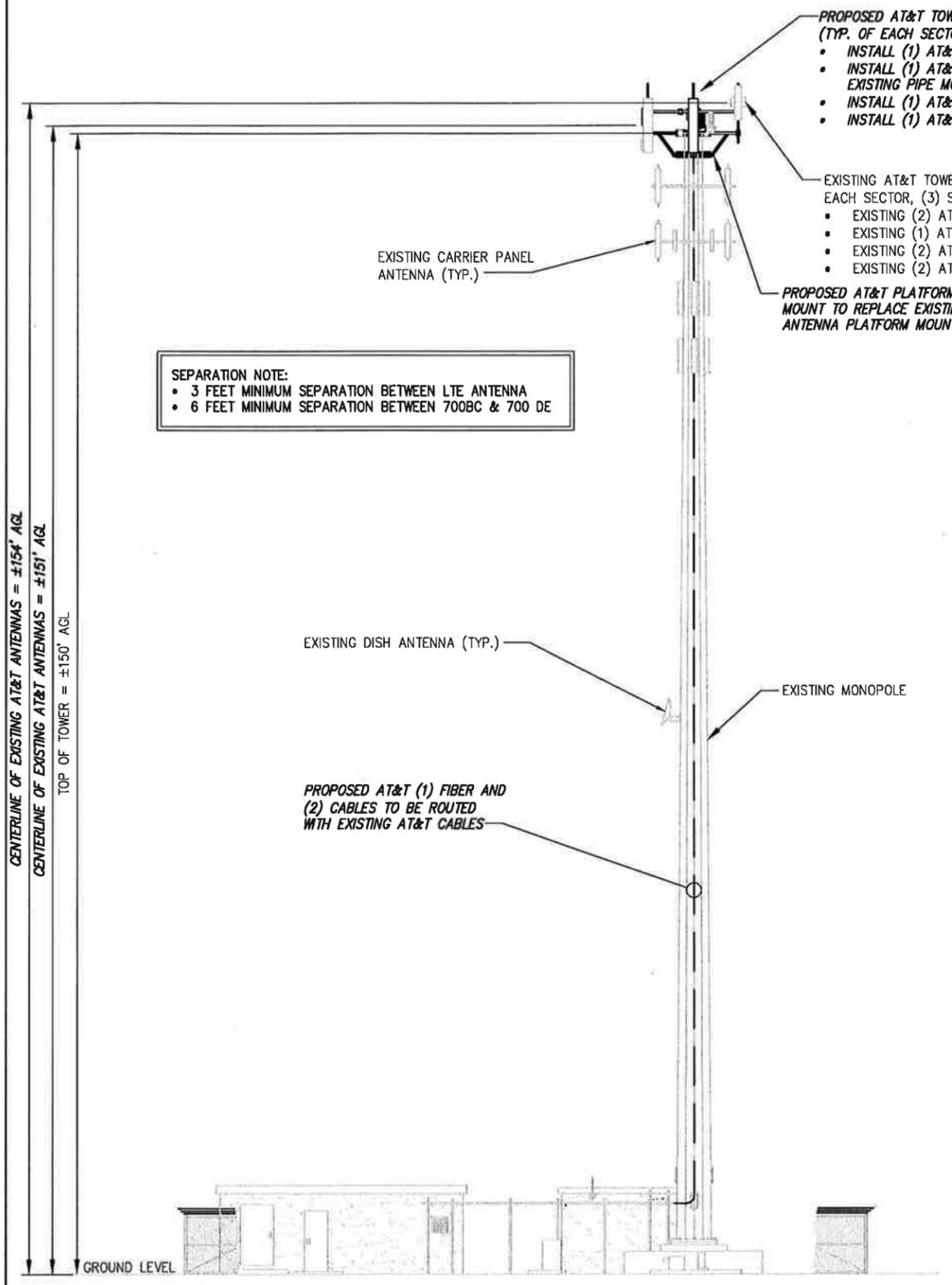
Project Title:
ENFIELD-TOWN FARM RD
CTL01021
FA# 10034985
 TOWN FARM ROAD
 ENFIELD, CT 06082



Drawing Scale:
 AS NOTED
 Date:
 11/13/18

Drawing Title:
ELEVATION VIEW

Drawing Number:
C3



SEPARATION NOTE:

- 3 FEET MINIMUM SEPARATION BETWEEN LTE ANTENNA
- 6 FEET MINIMUM SEPARATION BETWEEN 700BC & 700 DE

CENTERLINE OF EXISTING AT&T ANTENNAS = ±154' AGL
 CENTERLINE OF EXISTING AT&T ANTENNAS = ±151' AGL
 TOP OF TOWER = ±150' AGL

FINAL ANTENNA CONFIGURATION & CABLE SCHEDULE BASED ON LTE RFDS DATED 7/30/18, V 3.00

SECTOR	ANTENNA POSITION	ANTENNA STATUS & TECHNOLOGY	ANTENNA MANF/MODEL	TMA/DIPLEXER	RRUS	AZIMUTH	ANTENNA HEIGHT	CABLE FEEDER		RAYCAP UNIT
								TYPE	LENGTH	
ALPHA	B-1	(E) UMTS 850/1900	POWERWAVE 7770	(2) KATHREIN / 782-10250 (2) PWAV LGP21401	--	143'	±154'	(2) (E) 1-5/8" COAX	±180'	(1) (E) DC6 (1) (P) DC6
	A-2	--	--	--	--	--	--	--	--	
	A-3	(P) LTE 850/AWS/PCS/5G 850	CCI TPA-65R-LCUUUU-HB	(2) DBCT108F1V92-1	(1) (P) 4478 B5 (GROUND) (1) (P) B25/B66A 8843	23'	±151'	(2) (E) 1-5/8" COAX SEE A-4 FOR CABLE INFORMATION	±180**	
	A-4	(E) LTE 700/LTE AWS	CCI OPA-65R-LCUU-HB	--	(1) (E) RRUS-11 (1) (P) RRUS-32	23'	±151'	(1) (P) FIBER & (2) (P) DC CABLES	±180'	
BETA	G-1	(E) UMTS 850-1900	POWERWAVE 7770	(2) KATHREIN / 782-10250 (2) PWAV LGP21401	--	263'	±154'	(2) (E) 1-5/8" COAX	±180'	(1) (E) DC6 (1) (P) DC6
	B-2	--	--	--	--	--	--	--	--	
	B-3	(P) LTE 850/AWS/PCS/5G 850	CCI TPA-65R-LCUUUU-HB	(2) DBCT108F1V92-1	(1) (P) 4478 B5 (GROUND) (1) (P) B25/B66A 8843	143'	±151'	(2) (E) 1-5/8" COAX SEE A-4 FOR CABLE INFORMATION	±180**	
	B-4	(E) LTE 700/LTE AWS	CCI OPA-65R-LCUU-HB	--	(1) (E) RRUS-11 (1) (P) RRUS-32	143'	±151'	SEE A-4 FOR CABLE INFORMATION	±180'	
GAMMA	A-1	(E) UMTS 850-1900	POWERWAVE 7770	(2) KATHREIN / 782-10250 (2) PWAV LGP21401	--	23'	±154'	(2) (E) 1-5/8" COAX	±180'	(1) (E) DC6 (1) (P) DC6
	G-2	--	--	--	--	--	--	--	±180**	
	G-3	(P) LTE 850/AWS/PCS/5G 850	CCI TPA-65R-LCUUUU-HB	(2) DBCT108F1V92-1	(1) (P) 4478 B5 (GROUND) (1) (P) B25/B66A 8843	263'	±151'	(2) (E) 1-5/8" COAX SEE A-4 FOR CABLE INFORMATION	--	
	G-4	(E) LTE 700/LTE AWS	CCI OPA-65R-LCUU-HB	--	(1) (E) RRUS-11 (1) (P) RRUS-32	263'	±151'	SEE A-4 FOR CABLE INFORMATION	±180'	

*CABLE LENGTH FROM RFDS (CONTRACTOR TO VERIFY PRIOR TO ORDERING)

2 AT&T ANTENNA SCHEDULE
 NOT TO SCALE

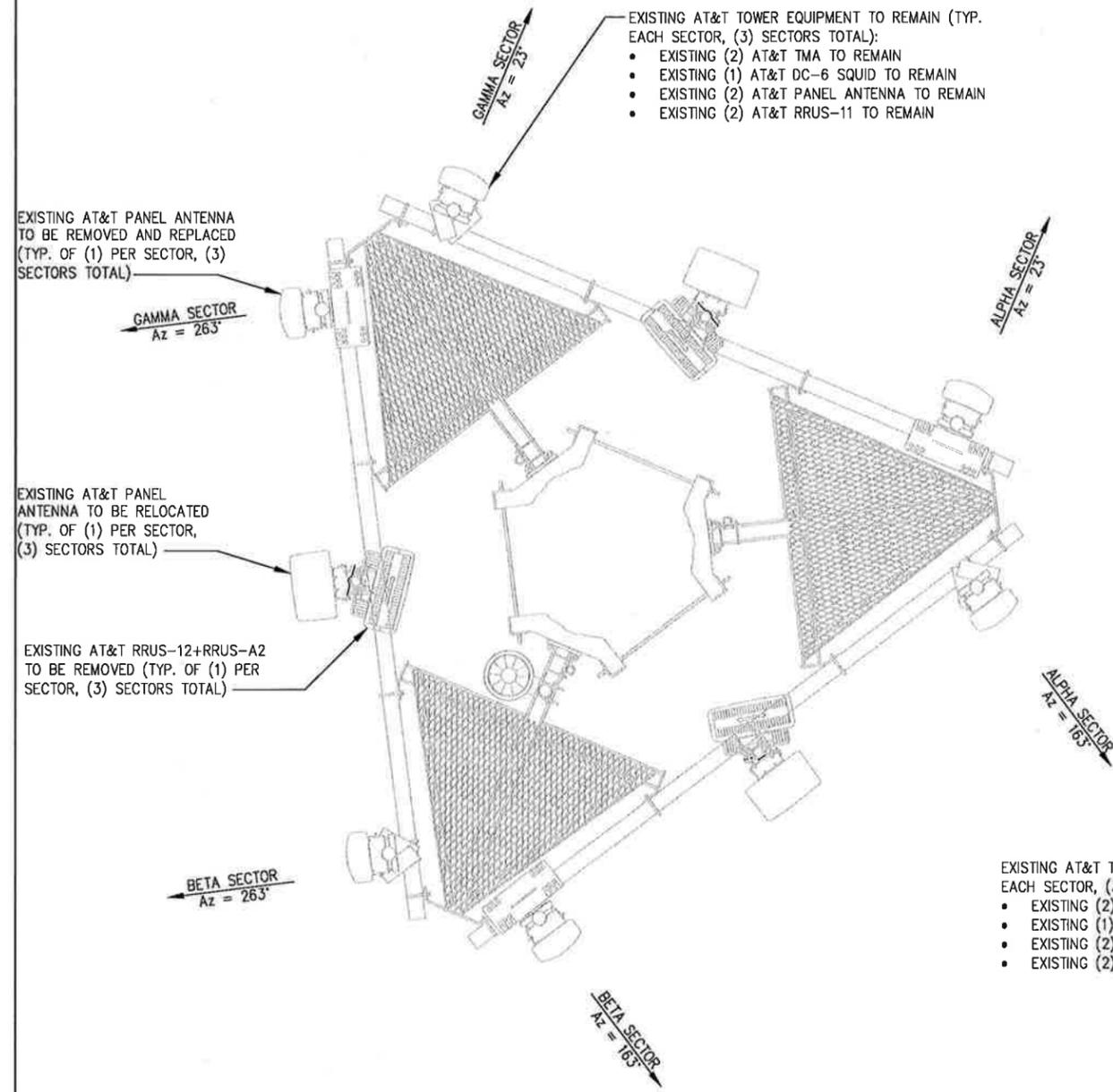
1 ELEVATION VIEW
 NOT TO SCALE

NOTE:

- INFINGY ENGINEERING HAS NOT EVALUATED THE EXISTING TOWER FOR THIS SITE, AND ASSUMES NO RESPONSIBILITY FOR ITS EXISTING OR PROPOSED LOADING. FINAL INSTALLATION TO COMPLY WITH RESULTS OF PASSING STRUCTURAL ANALYSIS.
- SEE 'MOUNT ANALYSIS REPORT' REPORT COMPLETED BY INFINGY DATED 09/07/18. THE EXISTING MOUNTS ARE TO BE REPLACES PRIOR TO THE INSTALLATION OF THE PROPOSED EQUIPMENT.

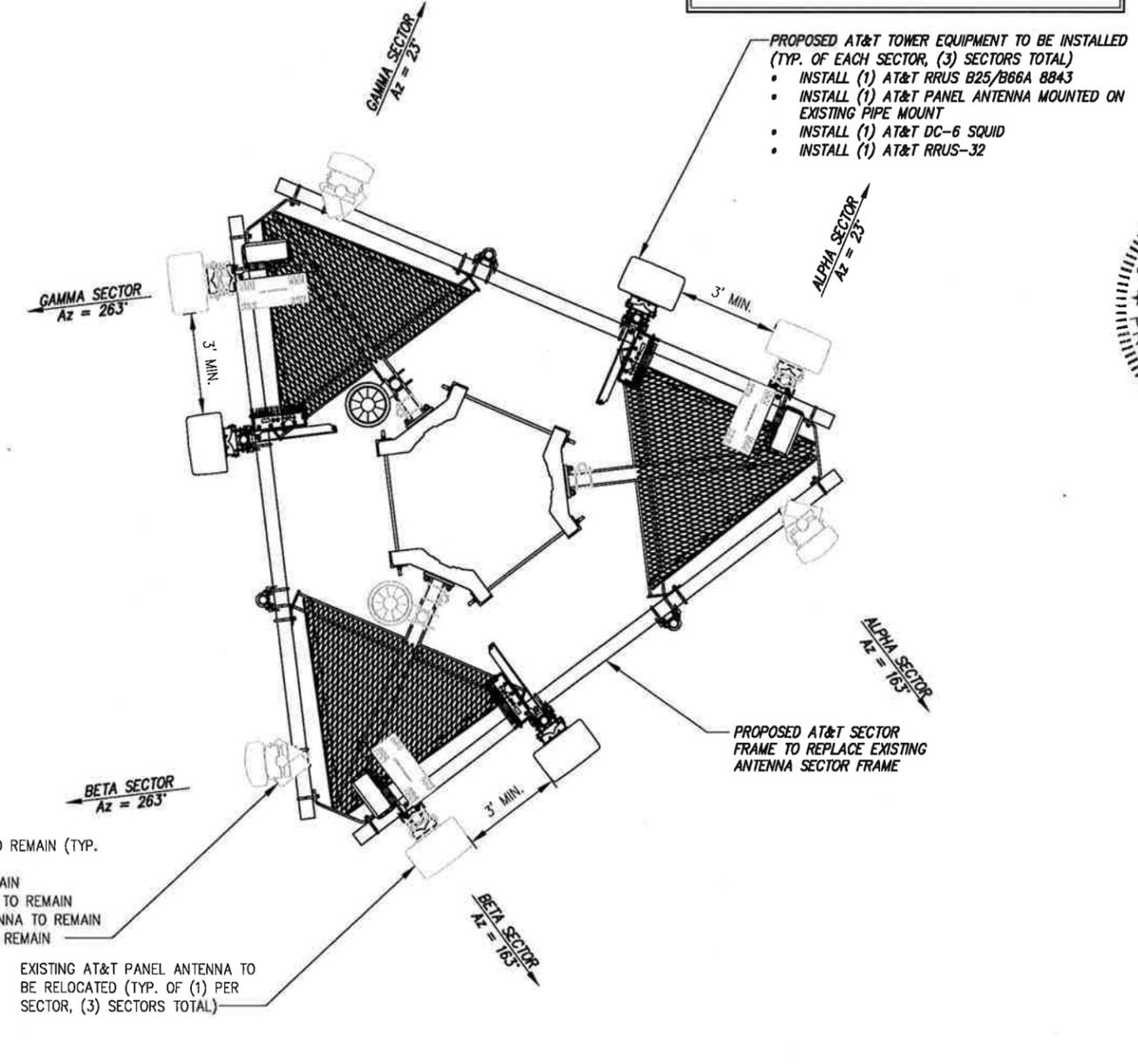
SEPARATION NOTE:

- 3 FEET MINIMUM SEPARATION BETWEEN LTE ANTENNA
- 6 FEET MINIMUM SEPARATION BETWEEN 700BC & 700 DE



1 ANTENNA ORIENTATION PLAN (EXISTING)
NOT TO SCALE

TRUE NORTH



2 ANTENNA ORIENTATION PLAN (PROPOSED)
NOT TO SCALE

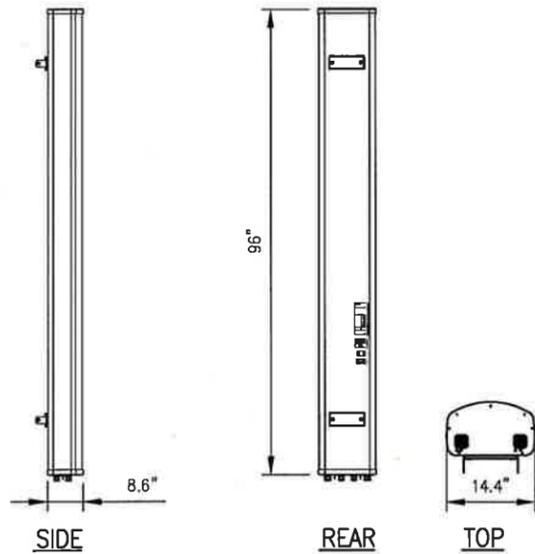
TRUE NORTH

INFINGY
1033 Watervliet Shaker Rd
Albany, NY 12205
Office # (518) 866-0780
Fax # (518) 866-0793

at&t

STATE OF CONNECTICUT
JOHN STEVENS
No. 24705
PROFESSIONAL ENGINEER
LICENSED

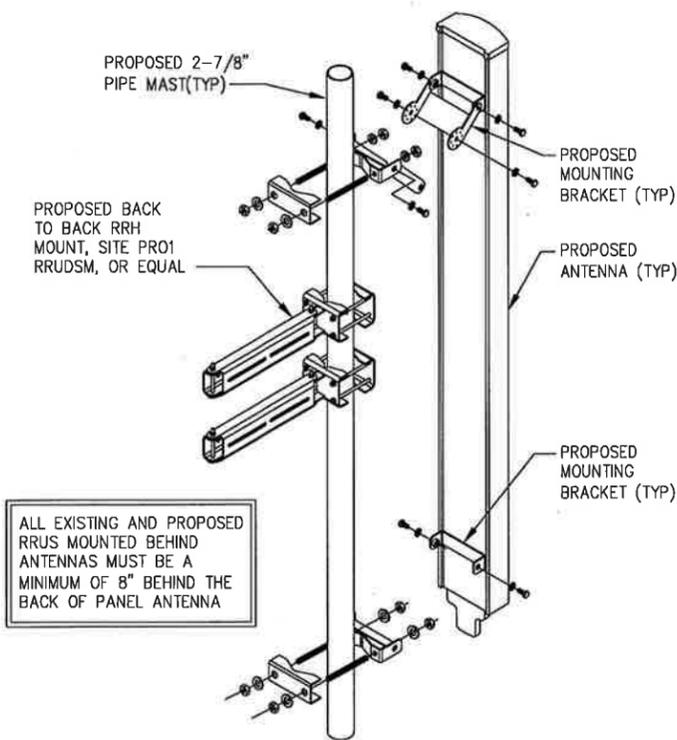
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2	REVISED FOR PERMIT	BWM	10/17/18
1	ISSUED FOR PERMIT	BWM	09/12/18
0	ISSUED FOR REVIEW	RCO	07/09/18
No.	Submittal / Revision	App'd	Date
Drawn:	RCO	Date:	07/09/18
Designed:	RCO	Date:	07/09/18
Checked:	RCO	Date:	07/09/18
Project Number: 499-006			
Project Title: ENFIELD-TOWN FARM RD CTL01021 FA# 10034985 TOWN FARM ROAD ENFIELD, CT 06082			
Prepared For: smartlink			
Drawing Scale:	AS NOTED	CD	
Date:	11/13/18		
Drawing Title: ANTENNA ORIENTATION PLAN			
Drawing Number: C4			



KATHREIN MODEL NO.: TPA-65R-LCUUUU-H8

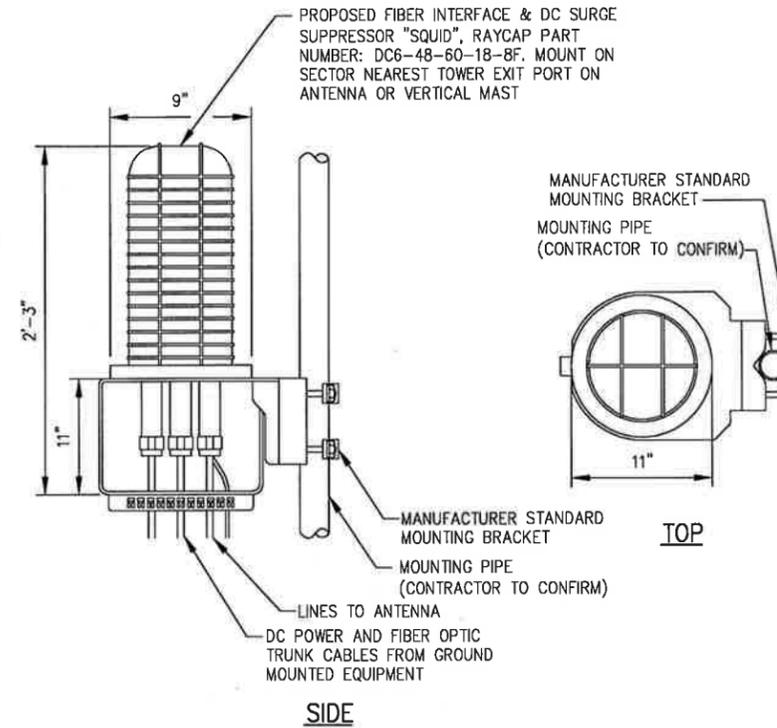
RADOME MATERIAL: FIBERGLASS
 RADOME COLOR: LIGHT GRAY
 DIMENSIONS, HxWxD: (96"x14.4"x8.6")
 WEIGHT, W/
 PRE-MOUNTED BRACKETS: 94.2 LBS
 CONNECTOR: 7-16 DIN FEMALE

1 ANTENNA DETAIL
 NOT TO SCALE

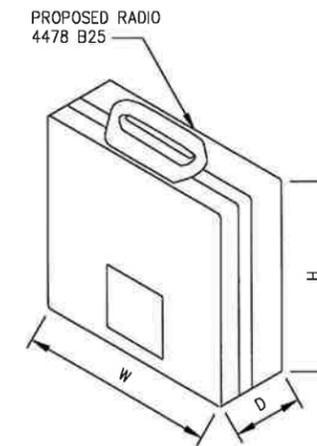


ALL EXISTING AND PROPOSED RRUS MOUNTED BEHIND ANTENNAS MUST BE A MINIMUM OF 8" BEHIND THE BACK OF PANEL ANTENNA

2 MOUNTING DETAIL
 NOT TO SCALE



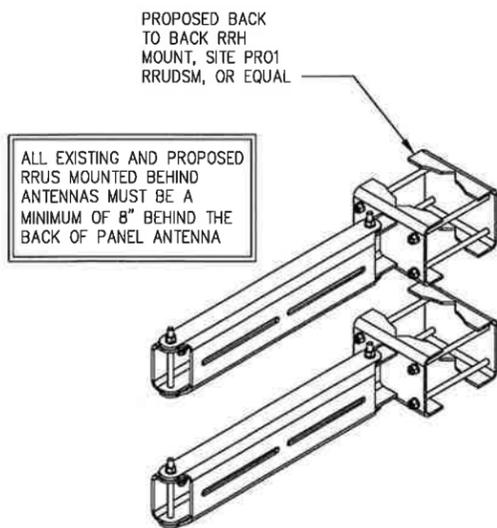
3 SQUID DETAIL
 NOT TO SCALE



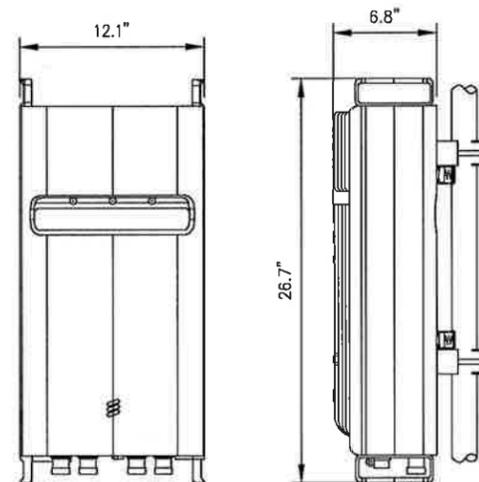
RADIO 4478 B5 SPECIFICATIONS

- HXWxD, (INCHES) : TBD
- WEIGHT (LBS) : 59.5
- COLOR : GRAY

4 ERICSSON RADIO 4478 DETAIL
 NOT TO SCALE



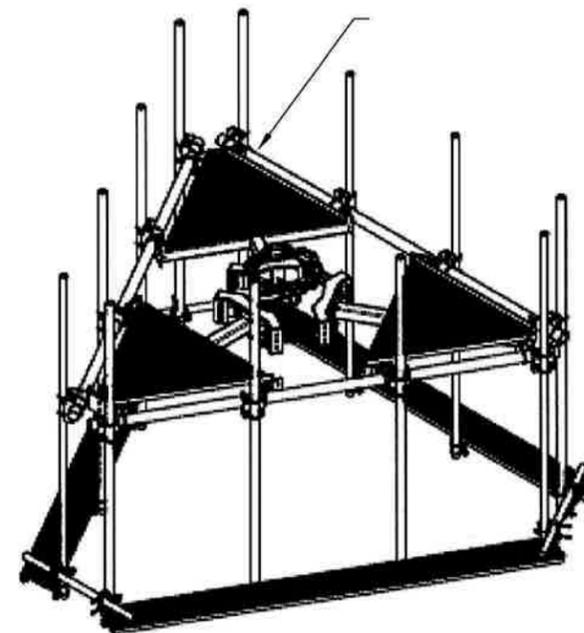
6 BACK TO BACK PIPE MOUNT DETAIL
 NOT TO SCALE



RRUS-32 SPECIFICATIONS

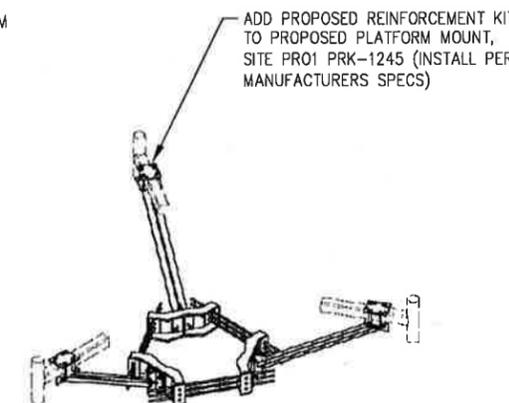
- HXWxD, (INCHES) : 26.7"x12.1"x6.8"
- WEIGHT (LBS) : 50.8
- COLOR : GRAY
- MOUNTING BRACKET: SXX1250245/1

6 ERICSSON RRUS-32 DETAIL
 NOT TO SCALE



7 PLATFORM MOUNT DETAIL
 NOT TO SCALE

FORM MOUNT CONTRACTOR POSED PLATFORM (IL 8)



8 REINFORCEMENT KIT
 NOT TO SCALE

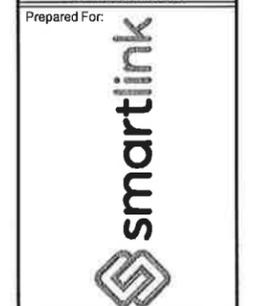


THIS PROFESSIONAL SEAL IS VALID IN ACCORDANCE WITH THE PROVISIONS OF APPLICABLE STATUTE AND/OR LOCAL LAWS.

No.	Submittal / Revision	App'd	Date
3	REVISED FOR PERMIT	BMM	11/13/18
2	REVISED FOR PERMIT	BMM	10/17/18
1	ISSUED FOR PERMIT	BMM	09/12/18
0	ISSUED FOR REVIEW	RCO	07/09/18

Drawn: RCO Date: 07/09/18
 Designed: RCO Date: 07/09/18
 Checked: RCO Date: 07/09/18
 Project Number: 499-006

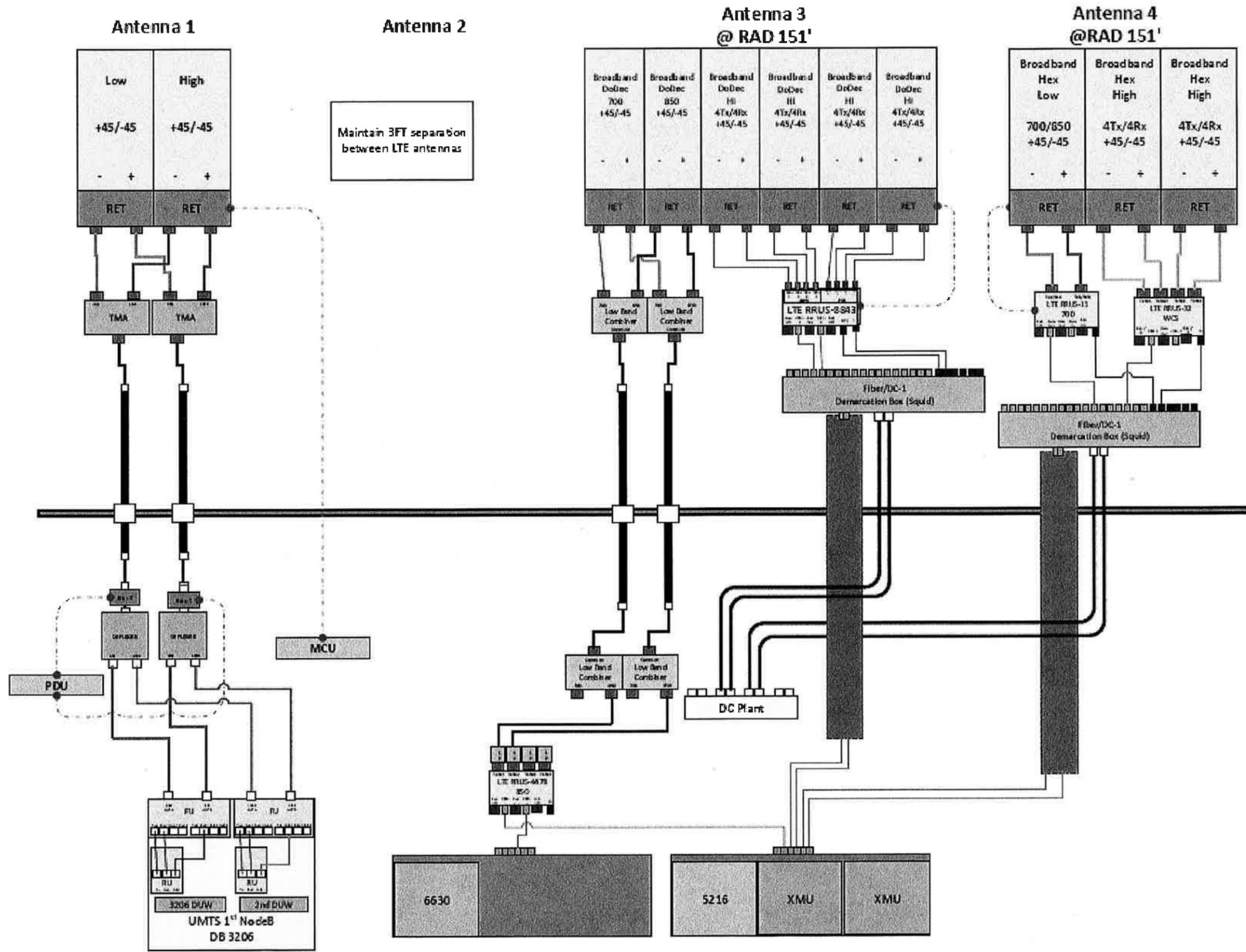
Project Title:
ENFIELD-TOWN FARM RD
CTL01021
FA# 10034985
 TOWN FARM ROAD
 ENFIELD, CT 06082



Drawing Scale: AS NOTED
 Date: 11/13/18
CD

Drawing Title:
EQUIPMENT DETAILS

Drawing Number:
C5



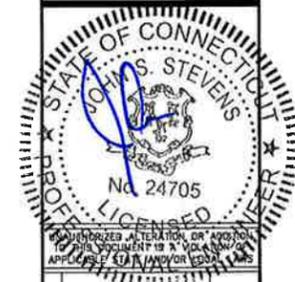
Maintain 3FT separation between LTE antennas

ALPHA/BETA/GAMMA

1 PLUMBING DIAGRAM (FINAL CONFIGURATION)
NOT TO SCALE

INFINIGY

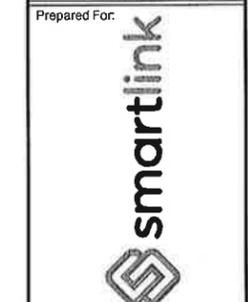
1033 Watervliet Shaker Rd
Albany, NY 12205
Office # (518) 890-0790
Fax # (518) 890-0793



3	REVISED FOR PERMIT	BMW	11/13/18
2	REVISED FOR PERMIT	BMW	10/12/18
1	ISSUED FOR PERMIT	BMW	09/12/18
0	ISSUED FOR REVIEW	ROD	07/09/18
No.	Submittal / Revision	App'd	Date
Drawn:	ROD	Date:	07/09/18
Designed:	ROD	Date:	07/09/18
Checked:	ROD	Date:	07/09/18

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499-006

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FA# 10034985
TOWN FARM ROAD
ENFIELD, CT 06082



Drawing Scale:
AS NOTED

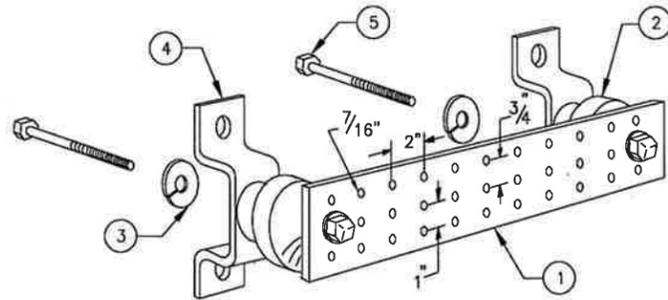
Date:
11/13/18

CD

Drawing Title:
PLUMBING DIAGRAM

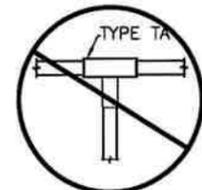
Drawing Number:
C6

*BASED ON LTE RFDS, V. 3.0, DATED 7/30/18

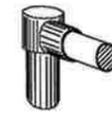


LEGEND

- 1 - SOLID TINNED COPPER GROUND BAR, 1/4"x 4"x 20" MIN., NEWTON INSTRUMENT CO. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION
- 2 - INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4
- 3 - 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8
- 4 - WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056
- 5 - 5/8-11 X 1" H.H.C.S. BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1
- 6 - GROUND BAR SHALL BE SIZED TO ACCOMMODATE ALL GROUNDING CONNECTIONS REQUIRED PLUS PROVIDE 50% SPARE CAPACITY
- 7 - GROUND BARS SHALL NEITHER BE FIELD FABRICATED NOR NEW HOLES DRILLED
- 8 - GROUND LUGS SHALL MATCH THE HOLE SPACING ON THE BAR
- 9 - HARDWARE DIAMETER SHALL BE MINIMUM 3/8"



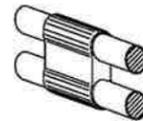
NOT PERMITTED



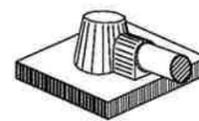
TYPE GR



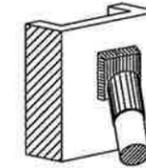
TYPE SV



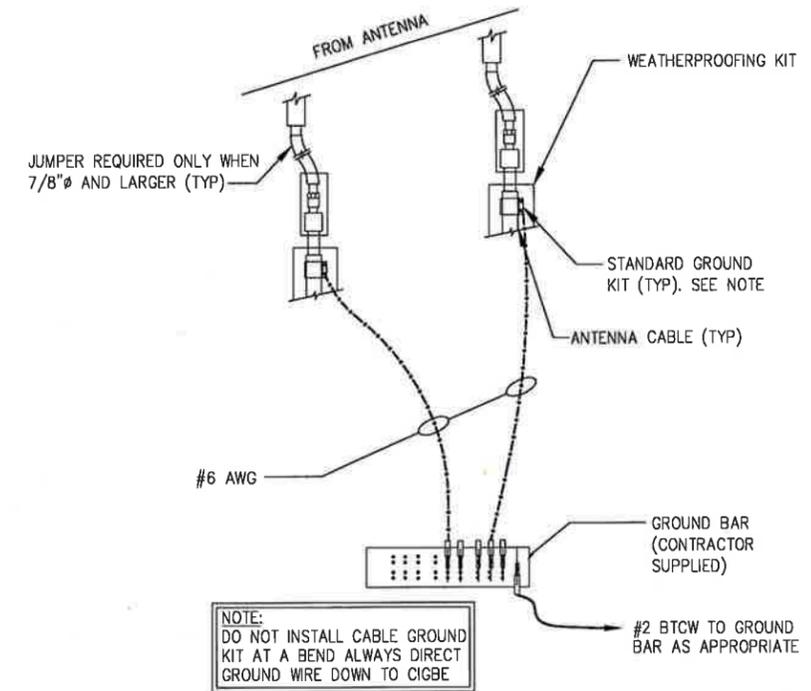
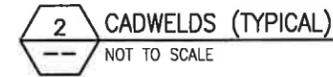
TYPE PH



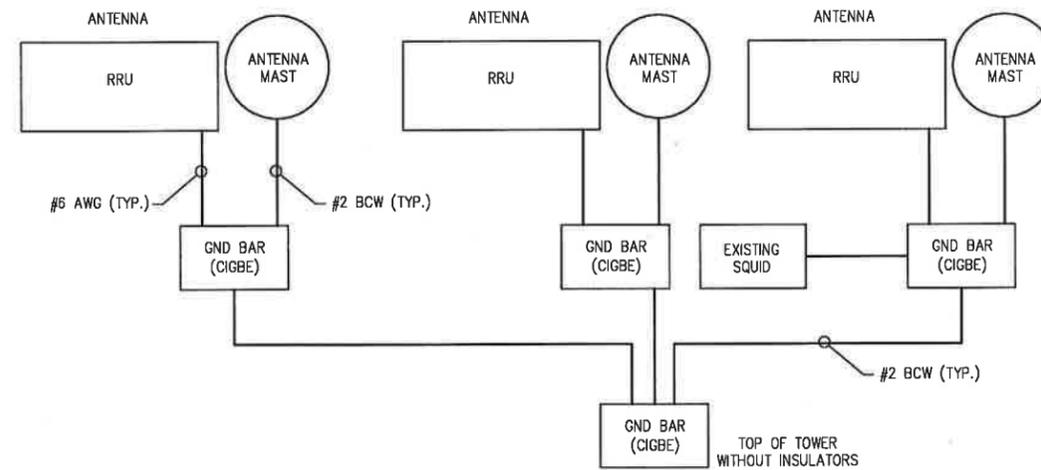
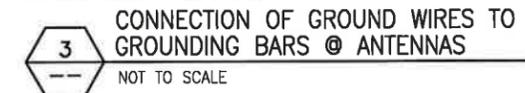
TYPE KA



TYPE VS



NOTE:
DO NOT INSTALL CABLE GROUND KIT AT A BEND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE



INFINIGY

1033 Watervliet Shaker Rd
Albany, NY 12205
Office # (518) 690-0790
Fax # (518) 690-0793



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Project Number: 499-006
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CTL01021
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TOWN FARM ROAD
ENFIELD, CT 06082



Drawing Scale: AS NOTED
Date: 11/13/18
CD

Drawing Title: **GROUNDING DETAILS**

Drawing Number: **C7**