



445 Hamilton Avenue, 14th Floor
White Plains, New York 10601
T 914 761 1300
F 914 761 5372
cuddyfeder.com

Lucia Chiochio
lchiochio@cuddyfeder.com

3/31/20

BY ELECTRONIC MAIL

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

Re: New Cingular Wireless PCS, LLC (“AT&T”)
Notice of Exempt Modification
Emergency Back-up Generator
269 East Flanders Road, East Lyme, CT 06333
Lat.: 41.36189190° Long.: -72.20909890°

Dear Ms. Bachman:

This letter and enclosures are respectfully submitted on behalf of New Cingular Wireless PCS, LLC (“AT&T”). AT&T currently maintains its wireless telecommunications facility at 296 Flanders Road in the Town of East Lyme, Connecticut. The Connecticut Light & Power Company (“CL&P”) is the owner of the underlying property and the tower owner. AT&T submits this letter and enclosures to the Connecticut Siting Council (“Council”) to notify the Council of AT&T’s intent to perform modifications to the existing facility that do not have substantial adverse environmental effects and thus do not require a certificate pursuant to Section 16-50k of the Connecticut General Statutes.

AT&T intends to install one (1) new Generac 30kW Diesel Generator within the existing grade-level fenced equipment compound as demonstrated on the plans enclosed as Attachment 1. AT&T’s existing facility supports its FirstNet program which provides first responders with priority access to AT&T’s network to ensure adequate communication capabilities in the event of emergency. AT&T’s proposed generator will ensure that critical communication capability for first responders and the public are not lost in the event of a loss of power.

AT&T’s proposed generator will also advance the State’s goal of natural disaster and emergency preparedness. As discussed in the Council’s Docket 432 Findings and Report and Docket 440 proceedings and Findings of Fact (Nos. 76- 77), in response to two significant storm events in 2011, the State formed a Two Storm Panel (the “Panel”) that evaluated Connecticut’s approach to

planning and mitigation of impacts associated with emergencies and natural disasters. The Panel found that “wireless telecommunications service providers were not prepared to serve residential and business customers during a power outage” because certain companies had limited backup generator capacity.¹ The Panel also noted that “[t]he failure of a large portion of Connecticut’s telecommunications system during the two storms is a life safety issue.” The Panel recommended that State regulatory bodies review “telecommunications services currently in place to verify that the vendors have sufficient generator and backhaul capacity to meet the emergency needs of consumers and businesses” and that the “Connecticut Siting Council should require continuity of service plans for any cellular tower to be erected.”² The planned modifications will ensure continuity of services by reinforcing AT&T’s back-up power and backhaul capacity to meet the emergency needs of first responders, consumers and businesses in the event of a power outage.

The planned modifications to the facility fall squarely within the activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2) as the planned modifications:

- Will not result in an increase in the height of the existing structure;
- Will not require the extension of the site boundary;
- Will not increase noise levels at the facility by more than six decibels or more, or to levels that exceed state or local criteria since emergency backup generators are exempt from noise regulations as “noise created as a result of, or relating to, an emergency”;³
- Will not increase radio frequency emission at the facility to a level at or above the Federal Communications Commission safety standards;
- Will not cause a change or alteration in the physical or environmental characteristics of the site; and
- Will not impair the structural integrity of the facility.

AT&T’s existing wireless facility on this CL&P transmission tower was approved by the Siting Council in Petition No. 530 on November 28, 2001 as illustrated in the petition staff report enclosed as Attachment 2. This modification complies with the conditions of the aforementioned approval. A copy of AT&T’s most recent Exempt Modification approval for upgrades to its wireless facility is also included in Attachment 2.

The proposed modifications will have no impact on the existing tower structure itself or the radio-frequency emissions as the proposed modifications only consist of the addition of one new generator within the grade-level fenced equipment compound. Thus, AT&T respectfully requests a waiver from submission of information relating to the existing tower structure or the radio-frequency emissions.

Please accept this letter 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-73. In accordance with R.C.S.A.

¹ See Council Administrative Notice Item No. 39

² See Council Administrative Notice Item No. 39.

³ R.C.S.A. § 22a-69-1.8.

§ 16-50j-73, a copy of this letter and enclosure are being sent by email to the Town First Selectman Mark C. Nickerson and the Planning & Zoning Department as well as by first class mail to the property owner and structure owner identified above. Certificate of mailing is enclosed as Attachment 3.

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

Very truly yours,


A handwritten signature in blue ink that reads "Lucia Chiochio". The signature is written in a cursive, flowing style.

Lucia Chiochio

Attachments


cc: First Selectman Mark C. Nickerson, Town of East Lyme
Gary A. Goeschel, Director of Planning
CL&P, Property Owner and Tower Owner
AT&T
General Dynamics Information Technology
Daniel Patrick, Esq. & Julie Durkin, Cuddy & Feder, LLP

ATTACHMENT 1



RAMAKER & ASSOCIATES, INC.
100% EMPLOYEE-OWNED
855 Community Dr, Sauk City, WI 53583
608-643-4100 www.Ramaker.com

Sauk City, WI • Willmar, MN
Woodcliff Lake, NJ • Bayamon, PR



at&t
Mobility

CONSULTANT:
GENERAL DYNAMICS
Information Technology, Inc.
GENERAL DYNAMICS
861 MOORE RD STE 110
KING OF PRUSSIA, PA 19406

PREPARED FOR:

PROJECT INFORMATION:
EAST LYME EAST
FA ID # 10071017

PROJECT INFORMATION:
269 FLANDERS ROAD
EAST LYME, CT 06333

SHEET TITLE:
TITLE SHEET

SCALE: NONE

PROJECT NUMBER: 45821
SHEET NUMBER: T-1

DATE: 3/26/2020
DATE ISSUED: 3/26/2020

MARKS: DATE DESCRIPTION
PHASE FINAL

PROJECT TITLE:

DATE: 3/26/2020
DATE:

SITE NAME: EAST LYME EAST
FA LOCATION CODE: 10071017

at&t Mobility

GENERATOR PROJECT
30KW GENERAC DIESEL GENERATOR
200A GENERAC ATS

269 FLANDERS ROAD
EAST LYME, CT 06333

APPLICABLE BUILDING CODE & STANDARDS

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITION OF THE FOLLOWING CODES AS ADOPTED BY THE GOVERNING LOCAL AUTHORITIES. NOTHING IN THESE PLANS ARE TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- INTERNATIONAL BUILDING CODE 2015
- NATIONAL ELECTRIC CODE 2017
- AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL TOWER AND ANTENNA SUPPORTING STRUCTURES
- TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

SCOPE OF WORK

ADD STANDBY GENERATOR, ASSOCIATED CONCRETE PAD, AND UTILITY EQUIPMENT TO EXISTING ART EQUIPMENT AREA. THERE WILL BE NO CHANGE IN THE SIZE OR HEIGHT OF THE TOWER OR ANTENNAS.

CALL BEFORE YOU DIG
811 OR 1-800-922-4455

CONNECTICUT PUBLIC ACT 87-71 REQUIRES MIN. 2 WORKING-DAYS NOTICE BEFORE YOU EXCAVATE.

PROJECT INFORMATION

PROJECT MANAGER:
JOE JARVIS
MARKET LEAD
GENERAL DYNAMICS WIRELESS SERVICES
107 SHERIDAN STREET
KING OF PRUSSIA, PA 19406
EMAIL: joseph.jarvis@gdt.com

ENGINEER:
RAMAKER & ASSOCIATES, INC.
855 COMMUNITY DRIVE
SAUK CITY, WI 53583
PH: (608) 643-4100
FAX: (608) 643-7999
CONTACT: TYLER BEATTY
EMAIL: tbeatty@ramaker.com

APPLICANT INFORMATION:
ART MOBILITY
7150 STANDARD DR
HANOVER, MD 21076

SITE DATA:
SITE NAME: EAST LYME EAST
FA NUMBER: 10071017

PROPERTY OWNER:
THE BERKSHIRE LIGHT AND POWER COMPANY
107 SHERIDAN STREET
BERKIN, CT 06037

ADDRESS:
269 FLANDERS ROAD
EAST LYME, CT 06333

COUNTY: NEW LONDON

LAT: 41.561089 100°

LONG: -72.20988380°

GROUND ELEVATION: 80 FT AMSL

DO NOT SCALE DRAWINGS.
CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT IS STRICTLY PROHIBITED.

PROJECT INFORMATION

GENERAL:
T-1 TITLE SHEET

NOTES:
N-1 GENERAL NOTES

SITE:
A-1 SITE PLAN
A-2 SITE PLAN & EQUIPMENT LAYOUT
S-1 FOUNDATION DETAILS

ELECTRICAL & GROUNDING:
E-1 WIRING DETAILS
E-2 PANEL AND PENETRATION DETAILS
E-3 ATS, CONDUIT & GROUND ROD DETAILS
E-4 GENERAC GENERATOR SPECIFICATIONS
E-5 GENERAC ATS SPECIFICATIONS
E-6 GENERAC ATS SPECIFICATIONS
E-7 GENERAC ATS SPECIFICATIONS

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RAMAKER & ASSOCIATES, INC.
 100% EMPLOYEE-OWNED
 855 Community Dr, Sauk City, WI 53583
 608-643-4100 www.Ramaker.com

Sauk City, WI • Willmar, MN
 Woodcliff Lake, NJ • Bayamon, PR

PREPARED FOR:



CONSULTANT:
GENERAL DYNAMICS
 Information Technology, Inc.
 GENERAL DYNAMICS
 861 MOORE RD STE 110
 KING OF PRUSSIA, PA 19406

Contractor Seal
 I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Connecticut.



3/26/2020
 Date

PROJECT INFORMATION:
EAST LYME EAST
FA ID # 10071017
 269 FLANDERS ROAD
 EAST LYME, CT 06333

SHEET TITLE:
 GENERAL NOTES

SCALE: NONE

PROJECT NUMBER: 45821
 SHEET NUMBER: N-1

ACCESS IS REQUIRED)

4. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH BY AT&T TECHNICIANS.

5. OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT PROPOSED.

6. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

7. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATION.

8. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTION REQUIRED FOR CONSTRUCTION.

9. SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.

ELECTRICAL NOTES:
 A. GENERAL

1. COORDINATE LOCATION AND POWER REQUIREMENTS OF ALL EQUIPMENT WITH ART AND EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.

2. COORDINATE LOCATION AND REQUIREMENTS FOR UTILITY AND TELEPHONE SERVICES WITH THE PROPERTY REPRESENTATIVE, ART AND UTILITY COMPANIES. ROUTING OF CONDUITS MAY BE MODIFIED TO MEET SITE REQUIREMENTS. EXACT CONDUIT ROUTING TO BE DETERMINED IN THE FIELD.

3. ALL WIRING AND EQUIPMENT SHOWN ON ELECTRICAL SHEETS SHALL BE FURNISHED AND INSTALLED UNDER ELECTRICAL PORTION OF CONTRACT UNLESS OTHERWISE NOTED.

4. UNINSULATED ELECTRICAL SERVICE FOR EXISTING EQUIPMENT SHALL BE MAINTAINED DURING THE INSTALLATION OF THE WORK DESCRIBED UNDER THESE DOCUMENTS. TEMPORARY EQUIPMENT, CABLES AND WATERVERSE IS NECESSARY SHALL BE PROVIDED AS REQUIRED TO MAINTAIN ELECTRICAL SERVICE. TEMPORARY SERVICE FACILITIES, IF EQUIPPED AT ANY TIME, SHALL NOT BE DISCONNECTED OR REMOVED UNTIL NEW SERVICE EQUIPMENT IS IN PROPER OPERATION. IF ANY SERVICE OR SYSTEM MUST BE INTERRUPTED, THE SERVICE WILL BE INTERRUPTED AND THE AREAS AFFECTED. THIS REQUEST SHALL BE MADE IN SUFFICIENT TIME FOR PROPER ARRANGEMENTS TO BE MADE. WRITTEN PERMISSION SHALL BE OBTAINED FROM THE OWNER BEFORE INTERRUPTING ELECTRICAL SERVICE.

5. COORDINATE NEW WORK WITH OTHER TRADES AND VERIFY EXISTING CONDITIONS TO AVOID INTERFERENCE. IN CASE OF INTERFERENCE, AT&T'S REPRESENTATIVE WILL DECIDE WHICH WORK IS TO BE RELOCATED, REGARDLESS OF WHICH WAS FIRST INSTALLED.

6. THE INSTALLATION MUST COMPLY WITH NEC AND ALL FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.

7. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT UNLESS OTHERWISE DEFINED BY DIMENSIONS OR DETAILS. EXACT EQUIPMENT LOCATIONS AND RACKWAY ROUTING SHALL BE GOVERNED BY ACTUAL FIELD CONDITIONS AND/OR DIRECTIONS FROM AT&T'S REPRESENTATIVE.

8. CONTRACTOR SHALL PAY ALL PERMITS AND FEES REQUIRED.

9. ALL MATERIALS SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND REFERENCED BELOW:
 a. ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE)
 b. ASTM (AMERICAN SOCIETY FOR TESTING MATERIALS)
 c. ETL (ELECTRICAL TESTING LABORATORY)
 d. IECA (INSULATED CABLE ENGINEERS ASSOCIATION)
 e. IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS)
 f. IEC (INTERNATIONAL ELECTROTECHNICAL COMMISSION)
 g. NESC (NATIONAL ELECTRICAL SAFETY CODE)
 h. NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION)
 i. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
 j. UL (UNDERWRITERS LABORATORY)

10. CONTRACTOR SHALL REVIEW PLANS, DETAILS AND SPECIFICATIONS IN DETAIL AND ADJUST WORK TO CONFORM WITH ACTUAL SITE CONDITIONS SO THAT ELECTRICAL DEVICES AND EQUIPMENT WILL BE LOCATED AND READILY ACCESSIBLE. QUANTITIES LISTED IN MATERIAL LISTS ON THE DRAWINGS ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR REQUIRED TO COMPLETE THE WORK. ALL NECESSARY MATERIALS TO INSTALL EQUIPMENT FURNISHED BY AT&T OR ITS SUPPLIERS. ALL ITEMS NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON THE DRAWINGS, BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED.

11. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) AT&T'S REPRESENTATIVE OF ANY CONFLICTS PRIOR TO THE SUBMISSION OF CONTRACTORS PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.

12. ALL FLOORS WHERE PENETRATIONS ARE REQUIRED IN BUILDING ARE TO BE CORE DRILLED AND THEN FIREPROOFED.

WIRING/CONDUIT

1. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR AS REQUIRED BY CODE SUCH THAT NO MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (90 DEGREES TOTAL) EXIST IN A CONDUIT RUN.

2. ALL POWER AND CONTINUOUS/INTERMITTENT WIRING SHALL BE TYPE THHW/THWN 800V RATED 75 DEGREES CULMINUS, UNLESS NOTED OTHERWISE.

NOTES TO SUBCONTRACTOR:

1. THE GENERAL SUBCONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.

2. IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETED INSTALLATION. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORM WORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL ORDINANCES, TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.

3. THE SUBCONTRACTOR SHALL USE ADEQUATE NUMBER OF SKILLED WORKMAN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY ARTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHOD NEEDED FOR PROPER PERFORMANCE OF THE WORK.

4. CONSTRUCTION SUBCONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION SUBCONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE WAIVED TO APPLY CONTINGUOUSLY AND NOT BE LIMITED TO NORMAL CONSTRUCTION OPERATIONS. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.

5. SITE GROUNDING SHALL COMPLY WITH ART. WIRELESS SERVICES TECHNICAL SPECIFICATIONS AND THE SUBCONTRACTOR SHALL VERIFY THE GROUNDING SYSTEMS WITH THE ART. THE ART CODES ARE MORE STRINGENT THEY SHALL GOVERN. GROUNDING SHALL BE COMPLETED BEFORE PRECIPITATION OF TOWER.

6. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF ADJACENT PROPERTIES AND UTILITIES SHALL BE ESTABLISHED AND ESTABLISHED PRIOR TO FOUNDATION INSTALLATION. IF TEMPORARY LIGHTING AND MARKING IS REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION (FAA), IT IS THE SUBCONTRACTORS RESPONSIBILITY TO MAINTAIN THE NECESSARY LIGHTS AND NOTIFY THE PROPER AUTHORITIES IN THE EVENT OF A PROBLEM.

7. ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES OR ORDINANCES. THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE REQUIREMENTS.

8. ANY DAMAGE TO THE ADJACENT PROPERTIES WILL BE CORRECTED AT THE SUBCONTRACTORS EXPENSE TO THE SATISFACTION OF THE LANDOWNER AND THE ENGINEER.

9. THE COMPLETE BID PACKAGE INCLUDES THESE CONSTRUCTION DRAWINGS ALONG WITH THE SPECIFICATIONS. SUBCONTRACTOR IS RESPONSIBLE FOR REVIEW OF TOTAL BID PACKAGE PRIOR TO BID SUBMITTAL.

10. SUBCONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION.

11. THE SUBCONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE OF THE SITE AT ALL TIMES. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE SUBCONTRACTORS EXPENSE.

12. CLEARING OF TREES AND VEGETATION ON THE SITE SHOULD BE HELD TO A MINIMUM. ONLY EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES PRIOR TO DISPOSAL.

13. ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES PRIOR TO DISPOSAL.

14. SEEDING AND MULCHING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE SITE DEVELOPMENT. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAIN AN ADEQUATE COVER OF VEGETATION OVER THE SITE FOR A ONE YEAR PERIOD.

15. PERMITS: THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC.

16. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS, BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DRAWINGS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.

17. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND UTILITIES. THE SUBCONTRACTOR SHALL VERIFY ALL UTILITIES, PIPELINES AND OTHER STRUCTURES SHOWN OR NOT SHOWN ON THESE PLANS. THE SUBCONTRACTOR SHALL CONTACT THE LOCAL JURISDICTIONS DIGGERS HOTLINE BEFORE DIGGING OR DRILLING. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AND ENGINEER AT THE SUBCONTRACTORS EXPENSE.

GENERAL NOTES:

1. THIS PROPOSAL IS FOR THE ADDITION OF A NEW GENERATOR ON A CONCRETE PAD TO AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING OF AN EQUIPMENT SHELLER AND TOWER.

2. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE.

3. THE PROPOSED FACILITY IS UNMANNED AND IS NOT FOR HUMAN HABITAT. (NO HANDICAP

3. SCHEDULE 90 PVC CONDUIT SHALL BE USED ABOVE GROUND, WHERE ABOVE GRADE IS BELIEVED AS THE GROUND OF THE TOWER.

4. BELL END OR TERMINAL ADAPTER MUST BE INSTALLED ON END OF PVC CONDUIT PER NEC 352.46, 300.4 F, (3)

5. CONDUIT BENDS SHALL BE MADE IN ACCORDANCE WITH NEC TABLE 9.4.6.1.0. NO RIGHT ANGLE DEVICES OTHER THAN STANDARD CONDUIT ELBOWS WITH 1/2" MINIMUM INSIDE SWEEPS FOR ALL CONDUITS 2" OR LARGER.

6. POWER WIRING SIZE SHALL NOT BE SMALLER THAN # 12 AWG.

7. ALL WIRING SHALL BE COPPER. ALUMINUM WILL NOT BE ACCEPTABLE ALL POWER CIRCUITS SHALL CONTAIN A GROUND WIRE.

8. PHASE MARKINGS TO BE USED AT POWER CONDUCTOR TERMINATIONS.

9. CONDUCTOR SHALL ENSURE INTEGRITY IS MAINTAINED WHEN INSTALLING CONDUIT AND WIRING.

10. INSTALL PULL STRING IN ALL CONDUIT.

11. FOR ROOFTOP INSTALLS AND BUILDINGS, CONDUITS INSIDE BUILDING AND ON ROOF SHALL BE RGS UNLESS OTHERWISE NOTED. FOR BAY/LAND SITES AND COLOCATES, PVC SCHEDULE 90 SHALL BE UTILIZED UNLESS NOTED OTHERWISE.

12. MAINTAIN A MINIMUM 1'-0" VERTICAL AND 1'-0" HORIZONTAL SEPARATIONS FROM ANY MECHANICAL GAS PIPING.

13. ALL WIRING ROUTED IN PLENUM TO BE RATED OR IN METALLIC FLEX (LIQUIDITE) CONDUIT.

EQUIPMENT

1. EQUIPMENT PARTS, CONNECTED TO EXISTING PANELS, DUCTS, ETC., SHALL MATCH THE CHARACTERISTICS (AC, V, A) OF THAT EQUIPMENT.

2. ALL ELECTRICAL EQUIPMENT OUTSIDE SHALL BE NEMA OR 3R RATED.

D. GROUNDING

1. ALL GROUND CONNECTIONS TO BUILDING SHALL BE MADE USING TWO-HOLE CONNECTORS. PROVIDE STAINLESS STEEL BOLTS AND LOCK WASHERS ON ALL MECHANICAL GROUND CONNECTIONS.

2. ALL EQUIPMENT SURFACES TO BE BONDED TO GROUNDING SYSTEM SHALL BE STRIPPED OF PAINT AND DIRT. CONNECTIONS TO VARIOUS METALS SHALL BE OF A TYPE AS TO CAUSE A GALVANIC OR CORROSIVE REACTION. AREA SHALL BE REPAINTED FOLLOWING BONDING.

3. ANY METALLIC ITEM WITHIN 6' OF GROUND CONDUCTORS MUST BE CONNECTED TO THE GROUNDING SYSTEM.

4. EXTERIOR, ABOVE GRADE GROUND CONNECTIONS SHALL BE FURNISHED WITH A LIBERAL PROTECTIVE COATING OF ANTI-OXIDE COMPOUND.

5. ALL MATERIALS AND LABOR REQUIRED FOR THE GROUNDING SYSTEM AS INDICATED ON THE PLANS AND DETAILS, AND AS DESCRIBED HEREIN SHALL BE FURNISHED BY THIS CONTRACTOR UNLESS OTHERWISE NOTED.

6. EXACT LOCATION OF GROUND CONNECTION POINTS SHALL BE DETERMINED IN FIELD. EXACT LOCATIONS INDICATED ON PLANS ACCORDING TO ACTUAL EQUIPMENT LOCATIONS TO KEEP THE GROUND CONNECTION CABLES AS SHORT AS PRACTICAL.

7. PROVIDE ALL ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS AS REQUIRED BY THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (NEC) AND THE CURRENT EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND THE CURRENT EDITION OF FITTINGS SHALL BE INSTALLED AT ALL RACKWAYS, EQUIPMENT ENCLOSURES, PULL BOXES, ETC. TO MAINTAIN GROUND CONTINUITY WHERE REQUIRED BY CODE.

8. ALL EQUIPMENT GROUND CONDUCTORS SHALL BE TIN COATED, #2 AWG COPPER UNLESS NOTED OTHERWISE ON THE DRAWINGS.

9. PROVIDE PRE AND POST GROUND TEST RESULTS, USING CLAMP-ON TESTER. TEST RESULTS SHALL BE PHOTOS WITH DIGITAL TIME AND GPS STAMP EMBEDDED.

E. INSPECTION/DOCUMENTATION

1. THE CONTRACTOR, UPON COMPLETION OF HIS WORK, SHALL PROVIDE AS-BUILT DRAWINGS INFORMATION SHOULD BE GIVEN TO THE GENERAL CONTRACTOR FOR INCLUSION IN FINAL AS-BUILT SURVEY DOCUMENTS TO BE GIVEN TO THE OWNER.

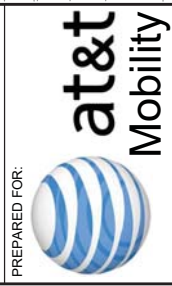
2. CONTRACTOR SHALL SUPPLY DOCUMENTATION ATTESTING TO THE COMPLETE GROUND SYSTEMS RECEIPT (MAX. 5 CMHWS).

3. AN ELECTRICAL INSPECTION SHALL BE MADE BY AND INSPECTING AGENCY APPROVED BY AT&T'S REPRESENTATIVE. CONTRACTOR SHALL COORDINATE ALL INSPECTIONS AND OBTAIN POWER COMPANY APPROVAL.

4. CONTRACTOR SHALL HAVE AT&T AND GENERATOR RELAY INSTALLATION AND CONNECTIONS INSPECTED BY OTHERS TO ENSURE THAT UL LISTING FOR THAT EQUIPMENT IS NOT VOIDED.



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CONSULTANT:
GENERAL DYNAMICS
 Information Technology, Inc.
 GENERAL DYNAMICS
 881 MOORE RD STE 110
 KING OF PRUSSIA, PA 19406

Contractor's Seal
 I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Connecticut.

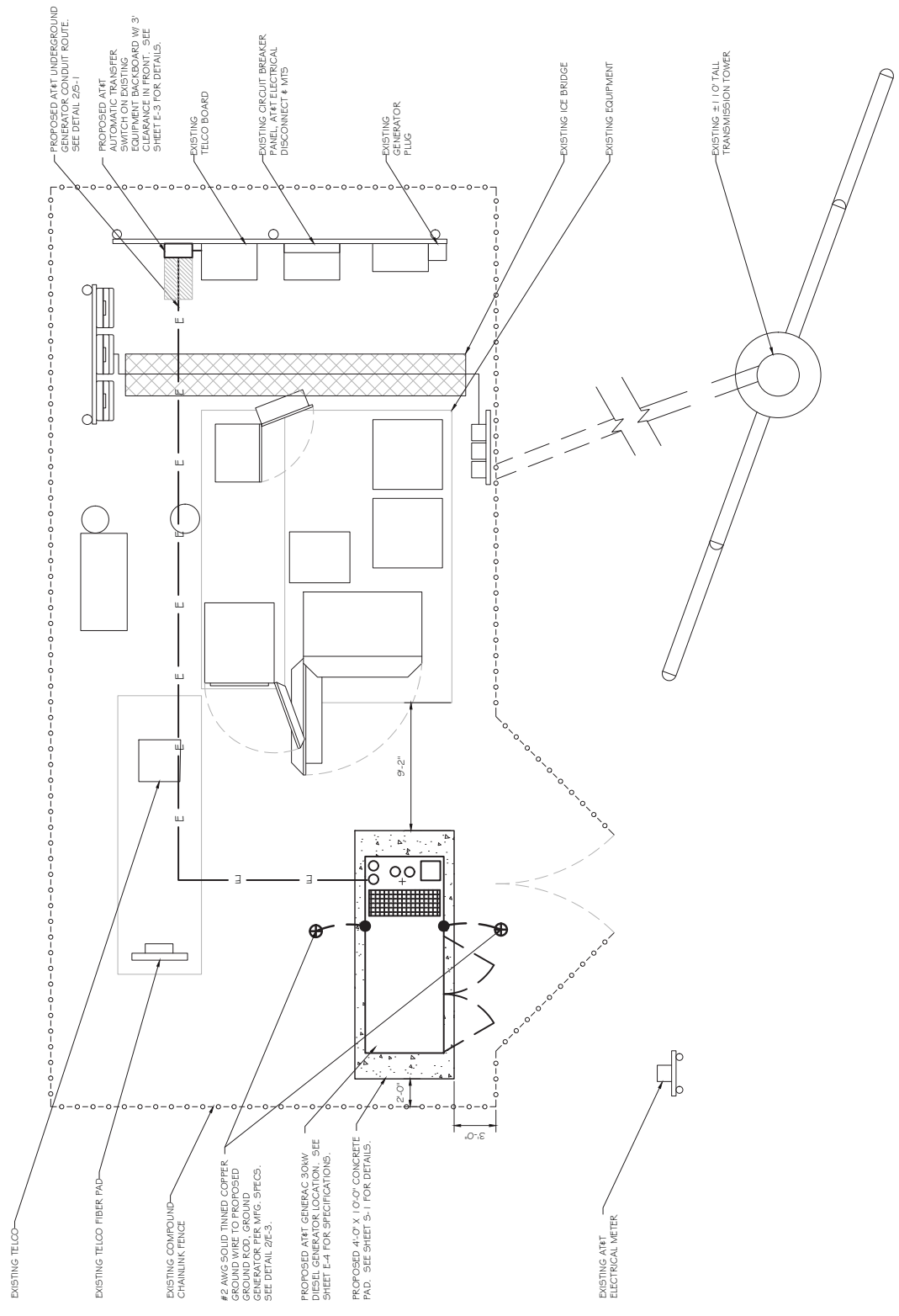
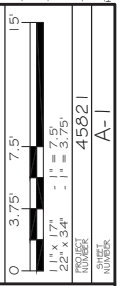


James P. Skowronski
 3/26/2020
 Date

MARK	DATE	DESCRIPTION
DATE	3/26/2020	DATE ISSUED
PHASE	FINAL	PROJECT TITLE

EAST LYME EAST
FA ID # 10071017
 PROJECT INFORMATION:
 269 FLANDERS ROAD
 EAST LYME, CT 06333

SHEET TITLE:
 SITE PLAN



SITE PLAN
 SCALE: 1" = 7.5'

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PREPARED FOR:


CONSULTANT:
GENERAL DYNAMICS
 Information Technology, Inc.
 GENERAL DYNAMICS
 681 MOORE RD STE 110
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Contractor & Seal
 I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the law of the State of Connecticut.



James P. Skowronski
 3/26/2020
 Date

MARK	DATE	DESCRIPTION
PHASE	FINAL	
PROJECT TITLE	EAST LYME EAST FA ID # 10071017	

PROJECT INFORMATION:
 269 FLANDERS ROAD
 EAST LYME, CT 06333

SHEET TITLE:
 WIRING DETAILS
 SCALE: NONE
 DRAWING NUMBER: 45821
 SHEET NUMBER: E-1

ALARM WIRE IDENTIFICATION CHART

WIRE	ALARM
BROWN	GENERATOR RUNNING
BROWN / WHITE	CRITICAL FAULT
GREEN	MINOR FAULT
BLUE	LOW FUEL
BLUE / WHITE	FUEL LEAK
ORANGE / WHITE	
BROWN / WHITE *	

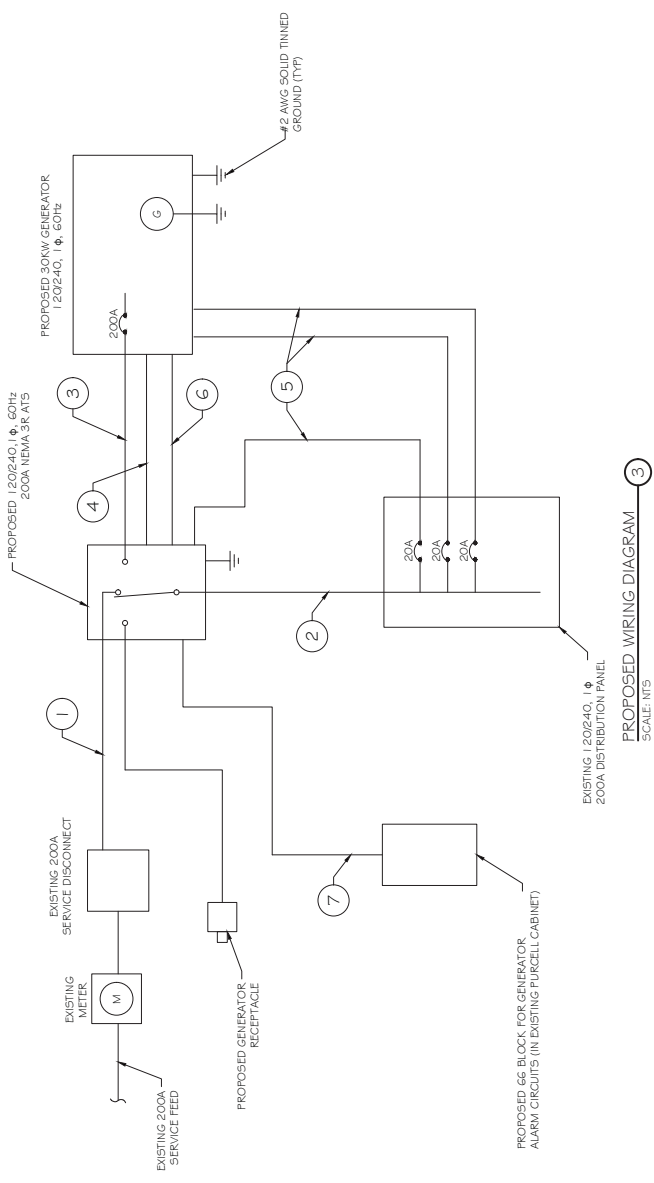
*CAT5 CABLE ONLY, FROM 2ND CAT5 CABLE

ALARM WIRING IDENTIFICATION CHART
 SCALE: NTS

DIAGRAM CIRCUIT SCHEDULE

NO.	FROM	TO	WIRES	CONDUIT SIZE	GROUND	FUNCTION
1	NORMAL POWER SOURCE	AUTOMATIC TRANSFER SWITCH	(3) 3/0	2"	(1) #4	NORMAL POWER FEEDER TO ATS (CUT BACK EXISTING)
2	AUTOMATIC TRANSFER SWITCH	LOAD CENTER	(3) 3/0	2"	(1) #4	POWER FEEDER FROM ATS TO PANEL
3	GENERATOR	AUTOMATIC TRANSFER SWITCH	(3) 3/0	2"	(1) #4	EMERGENCY POWER FEEDER TO ATS
4	AUTOMATIC TRANSFER SWITCH	GENERATOR	(2) #10	1"	(1) #10	START CIRCUIT
5	LOAD CENTER (DISTRIBUTION CENTER)	GENERATOR, ATS	(2) #12 (1) #12 (2) #12	1" 1" 1"	(1) #12 (1) #12 (1) #12	CIRCUIT FOR GENERATOR BLOCK HEATER & BATTERY HEATER CIRCUIT FOR BATTERY CHARGER CIRCUIT FOR ATS
6	GENERATOR	AUTOMATIC TRANSFER SWITCH	1/2 PAIR 24 AWG OR 2EA G-PAIR CAT5	1"	N/A	ALARM CABLES (1) 1/2 PAIR 24 AWG. PROVIDE 24" OF SLACK CABLE. FINAL PUNCH DOWN IS BY AT&T TECH. LABEL ALL WIRES
7	AUTOMATIC TRANSFER SWITCH	ALARM BLOCK	2EA G-PAIR CAT5	1"	N/A	ALARM CABLES (1) 1/2 PAIR 24 AWG (RUN TO PURCELL CABINET & INTO ALARM BOX). PROVIDE 24" OF SLACK CABLE. FINAL PUNCH DOWN IS BY AT&T TECH. LABEL ALL WIRES

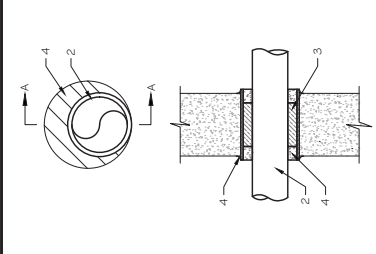
CIRCUIT DETAIL
 SCALE: NTS



PROPOSED WIRING DIAGRAM
 SCALE: NTS

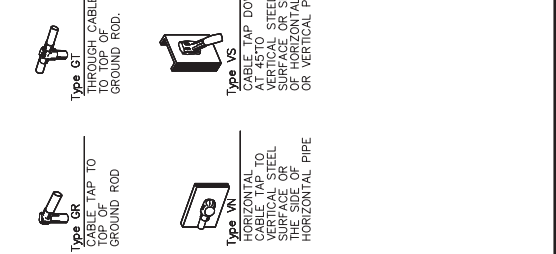
U.L. SYSTEM NO. CAJ-1150
 CONDUIT THROUGH BEARING WALL SIMILAR TO U.L. DESIGN NO. U902
 F RATING = 3 HR
 T RATING = 0 HR

FLOOR OR WALL ASSEMBLY: MINIMUM 4-1/2" THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAX DIAMETER OF OPENING IS 4". SEE SECTION 05050 (PART 2) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
 THROUGH PENETRATIONS: ONE METALLIC PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE ANNULAR SPACE SHALL BE MINIMUM 2" (POINT CONTACT) TO MAXIMUM 1-3/8". THE FOLLOWING TYPES AND SIZES ARE PERMITTED:
 A. STEEL PIPE - NOMINAL 6" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE.
 B. IRON PIPE - NOMINAL 4" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.
 C. CONDUIT - NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR NOMINAL 3-1/2" DIAMETER (OR SMALLER) RIGID POLYETHYLENE GLASS FIBER REINFORCED PLASTIC (FRP) CONDUIT.
 INSULATION: INSULATION TO BE PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
 OR CAVITY MATERIAL: SEALANT, MINIMUM 1/4" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS. FLUSH WITH TOP SURFACE OF FLOOR AND WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND CONCRETE, A MINIMUM 1/2" DIAMETER BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL. W RATING APPLIES ONLY WHEN CPE6015 OR CPE604 SEALANT IS USED.
 HILTI CONSTRUCTION CHEMICALS, DIV. OF HILTI INC.: CPE6015, CPE604, CPE606, OR F5-ONE SEALANT.
 * BEARING THE UL CLASSIFICATION MARK



NOTE:
 1. IF EXISTING CONSTRUCTION VARIES FROM THIS DETAIL, AN EQUAL 3-HR U.L. PENETRATION APPROPRIATE FOR THE EXISTING WALL TYPE SHALL BE USED.
 2. GC SHALL USE NON-SHRINKING CAULK TO WEATHERSEAL ALL PENETRATIONS INTO OR THRU SHELTER WALL.

OUTER WALL PENETRATION DETAIL
 (IF APPLICABLE)
 SCALE: NTS



AC Distribution Panel - Layout Diagram
 EXISTING PANEL SCHEDULE
 SCALE: NTS

Breaker Position	Breaker Type	On/Off	Size	Circuit Label	Breaker Position	Breaker Type	On/Off	Size	Circuit Label
1	2P	ON	50	DCPP 1	2	2P	ON	50	DCPP 2
3	2P	ON	50	DCPP 3	6	2P	ON	50	DCPP 4
5	2P	ON	50	UMTS	8	2P	ON	50	EXTERIOR GFI RECEPTACLE LIGHT
7	2P	ON	50	SUBPANEL	10	1P	ON	20	TELCO RECEPTACLE
9	2P	ON	50	DCPP GFI	12	1P	ON	20	PURCEL
11	2P	ON	50		14	1P	ON	20	SPARE
13	2P	ON	100		16	1P	ON	15	
15	2P	ON	30		18	1P	OFF	30	
17	1P	ON	30						

PROPOSED SUBPANEL SCHEDULE
 SCALE: NTS

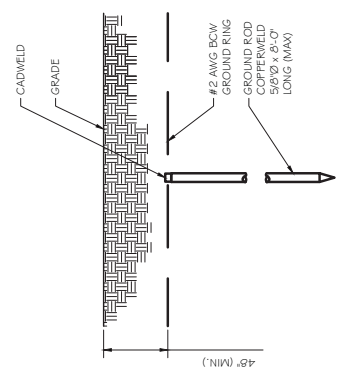
Breaker Position	Breaker Type	On/Off	Size	Circuit Label	Breaker Position	Breaker Type	On/Off	Size	Circuit Label
1	1P	ON	20	ATS	2	2P	OFF	30	BOOSTER FEED
3	1P	ON	20	BLOCK HEATER	4	2P	OFF	30	
5	1P	ON	20	BATTERY CHARGER	6	2P	OFF	30	

(1) CIRCUIT RELOCATED FROM POSITION 13/15 OF EXISTING AC PANELBOARD
 PROPOSED 20A BREAKERS FOR ATS, BLOCK HEATER AND BATTERY CHARGER ON NEW ATS1 GENERATOR

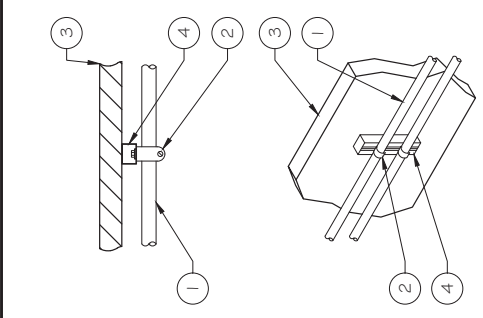
(2) CONTRACTOR TO UTILIZE NEXT AVAILABLE IN SEQUENCE SINGLE BREAKER POSITION FOR GENERATOR, BATTERY CHARGER, BATTERY HEATER AND BLOCK HEATER.

(3) CONTRACTOR TO LABEL WIRES WITH P-TOUCH OR SIMILAR LABELS ONLY. ABSOLUTELY NO HANDWRITTEN LABELS.

- NOTE:
- GROUND RODS MAY BE:
 - COPPER CLAD STEEL
 - COPPER WELDED
 - GROUND RODS SHALL HAVE A MAXIMUM SPACING TWICE THE LENGTH OF ROD
 - SEE RESISTIVITY REPORT FOR SPECIFICATION AS AVAILABLE
 - A LARGER CONDUCTOR SHALL BE REQUIRED IN AREAS HIGHLY PRONE TO CORROSION SUCH AS AREAS WITH HIGHLY ACIDIC SOIL
 - GROUND RODS INSTALLED WITHIN CLOSE PROXIMITY TO TOWER OR WHEN SOIL IS AT OR BELOW 2,000 OHM-CM, SHALL BE GALVANIZED TO PREVENT GALVANIC CORROSION OF TOWER. (SEE ANSI/ASTM-A14-222-G)
 - PROVIDE (1) GROUND LEAD TO EACH SIDE OF THE GENERATOR.



GROUND ROD DETAIL
SCALE: NTS



CONDUIT WALL MOUNT
SCALE: NTS

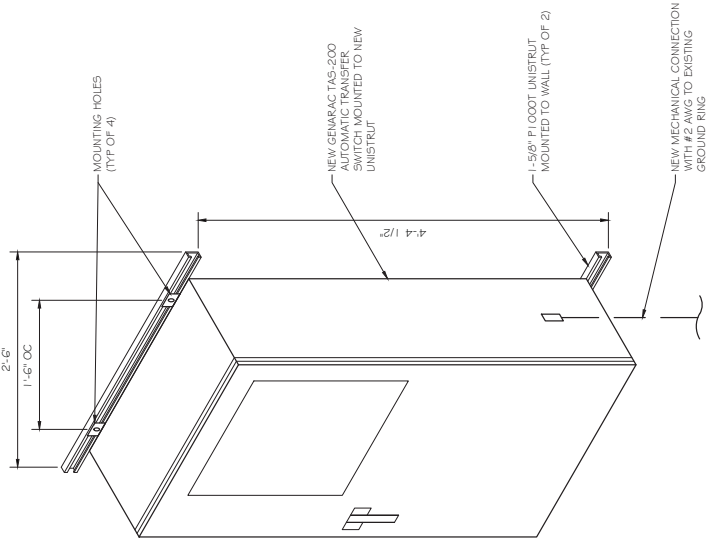
WALL CONSTRUCTION TYPE	USE
HOLLOW	3/8" DIA. TOGGLE BOLT
HOLLOW, AT STUD	3/8" DIA. LAG SCREW
CONCRETE BLOCK (HOLLOW)	3/8" DIA. HILTI HY-20 WITH SCREEN, MINIMUM EMBEDMENT 2-1/2"
CONCRETE (SOLID)	3/8" DIA. HILTI HY-150 WITH SCREEN, MINIMUM EMBEDMENT 2-1/2"

NOTE: USE GALVANIZED OR STAINLESS STEEL HARDWARE FOR WALL MOUNT & CONNECTIONS OF CHANNELS SPACE UNITS @ 5'-0" O.C., LENGTH OF RUN

WALL CONSTRUCTION TYPE	USE
HOLLOW	3/8" DIA. TOGGLE BOLT
HOLLOW, AT STUD	3/8" DIA. LAG SCREW
CONCRETE BLOCK (HOLLOW)	7/16" DIA. HILTI HY-20 WITH SCREEN, MINIMUM EMBEDMENT 2-1/2"
CONCRETE (SOLID)	7/16" DIA. HILTI HY-150 WITH SCREEN, MINIMUM EMBEDMENT 2-1/2"

NOTE:

- USE GALVANIZED OR STAINLESS STEEL HARDWARE FOR WALL MOUNT AND CONNECTION OF CHANNELS SPACE UNITS @ 5'-0" O.C., LENGTH OF RUN
- ALL PENETRATIONS INTO OR THROUGH SHIELD WALL WEATHER SEAL



GENERAC ATS MOUNTING DETAIL
SCALE: NTS

SD030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET
 EPA Certified Stationary Emergency



Image used for illustration purposes only.

Powering Ahead
 For over 50 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

Codes and Standards
 Not all codes and standards apply to all configurations. Contact factory for details.

- UL 2200, UL508, UL489, UL142
- CSA C22.2
- BS5514 and DIN 6271
- SAE J1349
- NFPA 37, 70, 99, 110
- NEC700, 701, 702, 708
- ISO 3046, 7637, 8528, 9001
- NEMA ICS10, MG1, 250, ICS6, AB1
- ANSI C62.1

SD030 | 2.2L | 30 kW
INDUSTRIAL DIESEL GENERATOR SET
 EPA Certified Stationary Emergency

STANDARD FEATURES

- ENGINE SYSTEM**
 - Oil Drain Extension
 - Air Chiller
 - Fly Guard
 - Stainless Steel Flexible Exhaust Connection
 - Factory Filled Oil and Coolant
 - Radiator Duct Adapter (Open Set Only)
 - Critical Slicer (Enclosed Unit Only)
 - Engine Coolant Heater
- Fuel System**
 - Fuel Lockoff Solenoid
 - Primary Fuel Filter
- Cooling System**
 - Closed Coolant Recovery System
 - UV/Stone Resistant Hoses
 - Factory-Installed Radiator
 - Radiator Drain Extension
 - 50/50 Ethylene Glycol Antifreeze
- Electrical System**
 - Battery Charging Alternator
 - Battery Cables
 - Battery Tray
 - Isolator-Isolated Engine Electrical Connections
 - Speed Activated Starter Motor

- ALTERNATOR SYSTEM**
 - UL2200 GEHybrid™
 - Choke H Induction Material
 - 23 Pitch
 - Stainless Steel
 - Brushless Excitation
 - Shielded Bearing
 - Rear Dynamically Spin Balanced
 - Anti-Vibration Mounting (Open Set Only)
 - Amplified Winding (3-Phase Only)
 - Full Load Capacity Alternator
 - Protective Thermal Switch
- GENERATOR SET**
 - Internal Genset Vibration Isolation
 - Separation of Circuits - High/Low Voltage
 - Separation of Circuits - Multiple Breakers
 - Wound Exhaust Piping
 - Standard Factory Testing
 - 1 Year Limited Warranty (Prime Based Only)
 - 1 Year Limited Warranty (Prime Based Only)
 - Standard Mounted Inlet Discharge Hood (Enclosed Unit Only)
- ENCLOSURE (If Selected)**
 - Black Powder Finishers with Nylon Washers to Protect Finish
 - High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)
 - Isolated Doors
 - Stamped Air-Intake Louvers
 - Stamped Radiator Discharge Hoods
 - Stainless Steel Lockable Handles
 - Stainless Steel Lock Off Door Hinges
 - Full Load Capacity Alternator
 - PrimeCoat™ - Textured Polyester Powder Coat Paint
- FUEL TANKS (If Selected)**
 - M1142ULC 5501
 - Double Wall
 - Normal and Emergency Vents
 - Sloped Top
 - Sloped Bottom
 - Factory Pressure Tested
 - Flareless Basin Alarm
 - Fuel Level
 - Check Valve in Supply and Return Lines
 - PrimeCoat™ - Textured Polyester Powder Coat Paint
 - Stainless Steel Hardware

CONTROL SYSTEM



- Audible Alarms and Shutdowns
- Net in Auto (Flashing Light)
- Auto On/Manual Switch
- E-Stop (Red Mushroom-Type)
- 16x16 to 16x16 LED (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus® Protocol
- Predictive Maintenance Algorithm
- Scaled Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2 msec High Speed Remote Trending
- Alarm Information Automatically Annunciated on the Display
- Full System Status Display**
 - Power Output (kW)
 - Power Factor
 - 24 Hours, Total and Last Run
 - Real/Reactive/Apparent Power
 - All Phase AC Voltage
 - All Phase Currents

ALARMS AND WARNINGS

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Overspeed
- Battery Voltage
- Alarms and Warnings Time and Date Stamped
- Step Stills of Key Operator Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

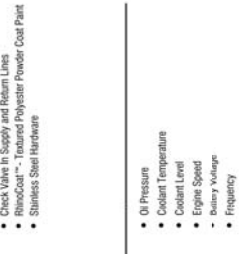
GENERAC INDUSTRIAL POWER

PREPARED FOR:



CONSULTANT:
GENERAL DYNAMICS
 Information Technology, Inc.
 GENERAL DYNAMICS
 861 MOORE RD STE 110
 KING OF PRUSSIA, PA 19406

Contractor Seal
 I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the law of the State of Connecticut.



NO.	DATE	DESCRIPTION	PHASE	FINAL	DATE	BY
1	3/26/2020	Issue	FINAL			

SPEC SHEET
 EAST LYME EAST
 FA ID # 10071017
 PROJECT INFORMATION:
 269 FLANDERS ROAD
 EAST LYME, CT 06333

SHEET TITLE:
 GENERAC 30KW GENERATOR SPECIFICATIONS

SCALE: NONE

45821
 E-4

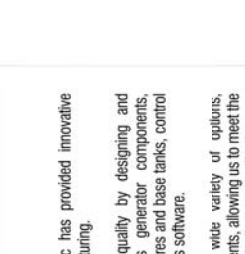
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 GENERAC 30KW GENERATOR SPECIFICATIONS

SCALE: NONE

45821
 E-4


GENERAC 30KW GENERATOR SPECIFICATIONS
 SCALE: NTS

RAMAKER & ASSOCIATES, INC.
 100% EMPLOYEE-OWNED
 855 Community Dr, Sauk City, WI 53583
 608-643-4100 www.Ramaker.com
 Sauk City, WI • Willmar, MN
 Woodcliff Lake, NJ • Bayamon, PR

PREPARED FOR:


CONSULTANT:
GENERAL DYNAMICS
 Information Technology, Inc.
 GENERAL DYNAMICS
 601 MOORE RD STE 110
 KING OF PRUSSIA, PA 19406

Contractor Seal
 I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Connecticut.



James P. Skowronski
 3/25/2020
 Date

MARKS	DATE	DESCRIPTION
PHASE	FINAL	DATE ISSUED: 3/26/2020
PROJECT TITLE:	EAST LYME EAST FA ID # 10071017	

PROJECT INFORMATION:
 269 FLANDERS ROAD
 EAST LYME, CT 06333

SHEET TITLE:
 GENERAC 30KW GENERATOR SPECIFICATIONS

SCALE: NONE

NO. OF SHEETS: 45821
 SHEET NUMBER: E-4.2

SD030 | 2.2L | 30 KW
 INDUSTRIAL DIESEL GENERATOR SET
 EPA Certified Stationary Emergency

GENERAC INDUSTRIAL POWER

SD030 | 2.2L | 30 KW
 INDUSTRIAL DIESEL GENERATOR SET
 EPA Certified Stationary Emergency

GENERAC INDUSTRIAL POWER

OPEN SET (includes Exhaust Flex)

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	76.0 (1,300) x 31.4 (950) x 44.8 (1,138)	1,641 (745)	
19	54 (204)	76.0 (1,930) x 31.4 (950) x 57.8 (1,460)	2,121 (963)
47	132 (501)	76.0 (1,930) x 31.4 (950) x 69.8 (1,773)	2,351 (1,067)
75	211 (799)	76.0 (1,930) x 31.4 (950) x 81.8 (2,078)	2,560 (1,162)
107	300 (1,136)	92.8 (2,360) x 31.4 (950) x 81.8 (2,078)	2,623 (1,190)

WEATHER PROTECTED ENCLOSURE

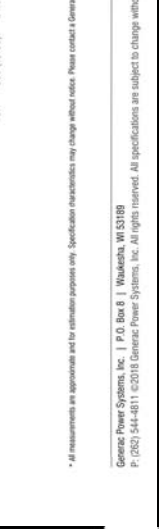
Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	94.8 (2,409) x 38.0 (965) x 49.5 (1,258)	372	241
19	54 (204)	94.8 (2,409) x 38.0 (965) x 62.5 (1,588)	372
47	132 (501)	94.8 (2,409) x 38.0 (965) x 74.5 (1,893)	470
75	211 (799)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)	510
107	300 (1,136)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)	510

LEVEL 1 ACoustic ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	112.5 (2,857) x 38.0 (965) x 49.5 (1,258)	505	338
19	54 (204)	112.5 (2,857) x 38.0 (965) x 62.5 (1,588)	505
47	132 (501)	112.5 (2,857) x 38.0 (965) x 74.5 (1,893)	590
75	211 (799)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)	630
107	300 (1,136)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)	630

LEVEL 2 ACoustic ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	94.8 (2,407) x 38.0 (965) x 61.1 (1,551)	510	341
19	54 (204)	94.8 (2,407) x 38.0 (965) x 74.1 (1,881)	510
47	132 (501)	94.8 (2,407) x 38.0 (965) x 86.1 (2,186)	510
75	211 (799)	94.8 (2,407) x 38.0 (965) x 86.1 (2,186)	510
107	300 (1,136)	94.8 (2,407) x 38.0 (965) x 86.1 (2,186)	510



SPEC SHEET

Part No. 100002442
 Rev. B 08/27/18

Generac Power Systems, Inc. | P.O. Box 8 | Waukesha, WI 53188
 P: (262) 544-4811 ©2018 Generac Power Systems, Inc. All rights reserved. All specifications are subject to change without notice.

* All measurements are approximate and for calculation purposes only. Specifications are subject to change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.

SD030 | 2.2L | 30 KW
 INDUSTRIAL DIESEL GENERATOR SET
 EPA Certified Stationary Emergency

GENERAC INDUSTRIAL POWER

SD030 | 2.2L | 30 KW
 INDUSTRIAL DIESEL GENERATOR SET
 EPA Certified Stationary Emergency

GENERAC INDUSTRIAL POWER

OPERATING DATA

POWER RATINGS

Single-Phase 120/240 VAC @ 1.0pf	30 kW	Amperes 125
Three-Phase 120/208 VAC @ 0.8pf	30 kW <td>Amperes 104</td>	Amperes 104
Three-Phase 120/240 VAC @ 0.8pf	30 kW <td>Amperes 90</td>	Amperes 90
Three-Phase 277/480 VAC @ 0.8pf	30 kW <td>Amperes 45</td>	Amperes 45
Three-Phase 346/600 VAC @ 0.8pf	30 kW <td>Amperes 36</td>	Amperes 36

kW vs. Voltage Dip

277/480 VAC	30%	200/340 VAC	30%
K0053242V1 - 01	K0053242V1 - 05		
K00407242V1 - 76	K00407242V1 - 58		
K00507242V1 - 98	K00507242V1 - 75		

MOTOR STARTING CAPABILITIES (kW)

Percent Load	Standby
25%	1.0 (0.7)
50%	1.4 (0.9)
75%	2.0 (1.5)
100%	2.8 (10.5)

* Fuel supply installation must accommodate fuel consumption rate at 100% load.

FUEL CONSUMPTION RATES*

Fuel Pump (Lit. - in)	Standby
3 (1)	1.0 (0.7)
16.6 (63)	2.8 (10.5)

* Fuel supply installation must accommodate fuel consumption rate at 100% load.

COOLING

Standby
88 (2.5)

EXHAUST

Standby
296.6 (8.4)
1.5 (0.3)
882 (47)

COMBUSTION AIR REQUIREMENTS

Standby
88 (2.5)

ENGINE

Rated Engine Speed	RPM	Standby
Maximum Power at Rated RPM**	49	1.5 (0.3)
Prime Speed	1,181 (560)	882 (47)
Standby	159 (1,096)	

** Refer to "Emissions Data Sheet" for maximum BHP for EPA and SCAQMD permitting purposes.

Duration - Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards. Standby - See Bulletin 01875005S8 Prime - See Bulletin 01875100S8

SPEC SHEET

Part No. 100002442
 Rev. B 08/27/18

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* All measurements are approximate and for calculation purposes only. Specifications are subject to change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.

TTS Series Switches
200 Amps
600 VAC

GENERAC INDUSTRIAL POWER

TAS200
 200A Automatic Transfer Switch

RAMAKER & ASSOCIATES, INC.
 100% EMPLOYEE-OWNED
 855 Community Dr, Sauk City, WI 53583
 608-643-4100 www.Ramaker.com
 Sauk City, WI • Willmar, MN
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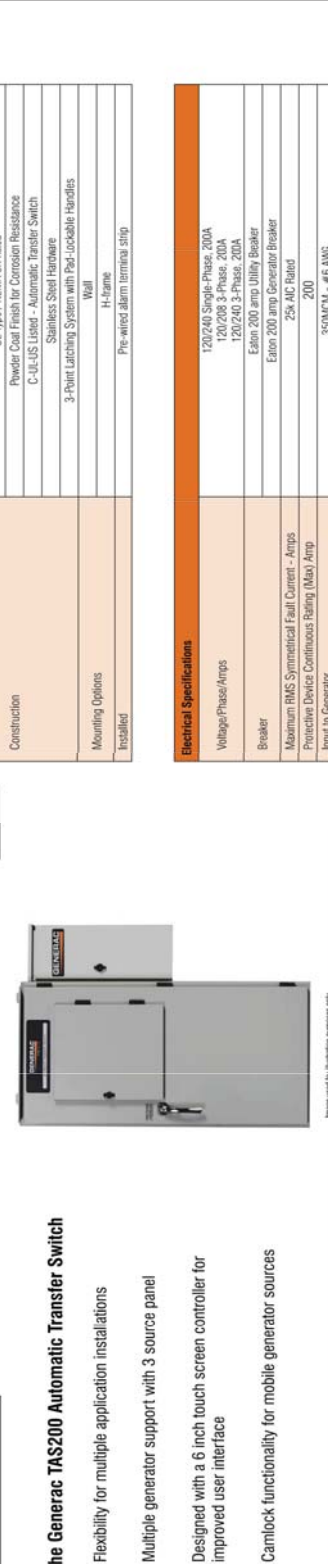
The Generac TAS200 Automatic Transfer Switch

Flexibility for multiple application installations

Multiple generator support with 3 source panel

Designed with a 6 inch touch screen controller for improved user interface

Camlock functionality for mobile generator sources



Features

- STEEL CONSTRUCTION
- NEMA 3R ENCLOSURE WITH HINGED "PADLOCKING" DOORS
- STAINLESS STEEL HARDWARE
- CAMLOCK "QUICK CONNECT" CAPABILITY
- OPERATIONAL STATUS VIEW VIA 6 INCH TOUCH SCREEN
- TEST FUNCTION - FAST TEST & NORMAL TEST
- UL1008 LISTED - FOR EMERGENCY SYSTEMS

Codes and Standards

Generac products are designed to the following standards:

- UL1008, UL508, UL50, CSA C22.2 No. 178
- UL LISTED
- MEC 700, 701 and 702
- NEC 700, 701 and 702
- NEMA 250

Optional Features

- EXTENDED WARRANTY
- THREE-PHASE VOLTAGE CONFIGURATIONS

Application and Engineering Data

Cabinet Specifications	24" W x 17" D x 48" H
Dimensions	210 lbs.
Weight	Single Chamber with Main Door
Construction	Steel
Mounting Options	UL Type / NEMA 3R Rated
Installed	Powder Coat Finish for Corrosion Resistance
	C-ULUS Listed - Automatic Transfer Switch
	Stainless Steel Hardware
	3-Point Latching System with Pad-Lockable Handles
	Wall
	H-Frame
	Pre-wired alarm terminal strip

Electrical Specifications	120/240 Single-Phase, 200A
Voltage/Phase/Amps	120/208 3-Phase, 200A
Breaker	120/240 3-Phase, 200A
Maximum RMS Symmetrical Fault Current - Amps	Edison 200 amp Utility Breaker
Protective Device Continuous Rating (Max) Amp	Edison 200 amp Generator Breaker
Input to Generator	25k AIC Rated
Output to Site	200
Generator Annunciator Connector	350MCM - #6 ANS
Alarm Terminal Board	350MCM - #6 ANS
	Deusch DT1004-12PA-1012
	Generator Run Alarm
	Generator Fall - Shutdown Alarm
	Generator Fall - Non Shutdown Alarm
	Low Fuel Alarm
	Generator Thrift Alarm
	AC Utility Fail Alarm

Camlock Component	Shipped loose for multiple installation options
Camlock Component	9" W x 9.4" D x 24.25" H
Dimensions	Single-Phase: Black L1, Red L2, White-Neutral, Green-Ground
200A Camlock Generator Connection	3-Phase: Black L1, Red L2, Blue L3, White-Neutral, Green-Ground
	Uses 4 CH E1016 Male Connectors
	Mating Connector - CH E1016 Female

GENERAC ATS SPECIFICATIONS

SCALE: NTS

at&t Mobility

GENERAL DYNAMICS Information Technology, Inc.

GENERAL DYNAMICS
 861 MOORE RD STE 110
 KING OF PRUSSIA, PA 19406

Consultant Seal
 I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the law of the State of Connecticut.

JAMES J. SKOPIRONSKI
 28266
 LICENSED PROFESSIONAL ENGINEER
 STATE OF CONNECTICUT
 3/26/2020

MARKS	DATE	DESCRIPTION
PROJECT TITLE:	FINAL	3/26/2020
DATE	3/26/2020	DATE
PROJECT TITLE:	FINAL	DATE

EAST LYME EAST
FA ID # 10071017

PROJECT INFORMATION:
 269 FLANDERS ROAD
 EAST LYME, CT 06333

SHEET TITLE:
 GENERAC ATS SPECIFICATIONS

SCALE: NONE

CONTRACT NUMBER	45821
SHEET NUMBER	E-5

FLANDERS RD

Location FLANDERS RD

Mblu 31.3/ 21/ / /

Acct# 001395

Owner CONN LIGHT & POWER CO

Assessment \$19,390

Appraisal \$27,700

PID 5478

Building Count 1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2016	\$900	\$26,800	\$27,700

Assessment			
Valuation Year	Improvements	Land	Total
2016	\$630	\$18,760	\$19,390

Owner of Record

Owner CONN LIGHT & POWER CO

Sale Price \$0

Co-Owner

Certificate

Address PO BOX 270
HARTFORD, CT 04141

Book & Page 024/ 481

Sale Date 05/17/1924

Ownership History

Ownership History
No Data for Ownership History

Building Information

Building 1 : Section 1

Year Built:

Living Area: 0

Replacement Cost: \$0

Building Percent Good:

Replacement Cost

Less Depreciation: \$0

Building Attributes

Field	Description
Style	Outbuildings
Model	
Grade:	
Stories:	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Total Bthrms:	
Total Half Baths:	
Total Xtra Fixtrs:	
Total Rooms:	
Bath Style:	
Kitchen Style:	

Building Photo



(<http://images.vgsi.com/photos2/EastLymeCTPhotos/\01\01\09\48.JPG>)

Building Layout

Building Layout

(http://images.vgsi.com/photos2/EastLymeCTPhotos//Sketches/5478_5565)

Building Sub-Areas (sq ft)	Legend
No Data for Building Sub-Areas	

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code	4230
Description	ELEC ROW
Zone	CA
Neighborhood	0030
Alt Land Appr Category	No

Land Line Valuation

Size (Acres)	0.06
Frontage	0
Depth	0
Assessed Value	\$18,760
Appraised Value	\$26,800

Outbuildings

--

Outbuildings						<u>Legend</u>
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
SHD3	METAL			144 S.F.	\$0	1
FN4	FENCE-8' CHAIN			48 L.F.	\$900	1

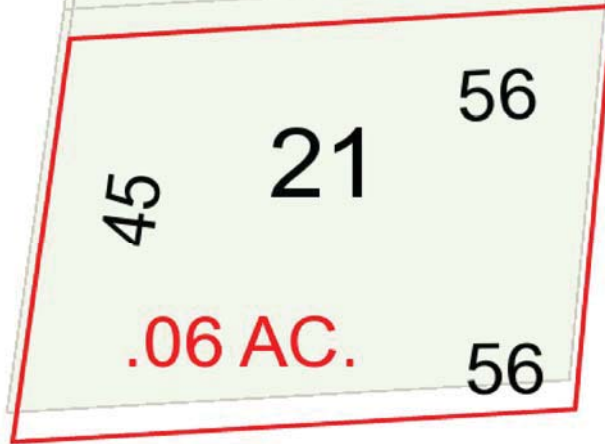
Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2019	\$900	\$26,800	\$27,700
2018	\$900	\$26,800	\$27,700
2017	\$900	\$26,800	\$27,700

Assessment			
Valuation Year	Improvements	Land	Total
2019	\$630	\$18,760	\$19,390
2018	\$630	\$18,760	\$19,390
2017	\$630	\$18,760	\$19,390

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FLANDERS ROAD



Tighe & Bond

FLANDERS RD

3/27/2020 3:18:30

1"=20'

Property Information

Parcel ID	31.3 21
Address	FLANDERS RD
Sale Price	0



The information depicted on this map is for planning purposes only. It is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analyses.



ATTACHMENT 2

Petition No. 530
AT&T Wireless PCS, LLC
East Lyme, Connecticut
Staff Report
November 28, 2001

On November 5, 2001, Connecticut Siting Council (Council) member Gerald J. Heffernan and Christina Lepage and Robert Mercier of the Council staff met with AT&T Wireless PCS, Inc. (AT&T) representatives Peter Carbone and Karen Couture on Flanders Road, East Lyme, Connecticut for inspection of an electric transmission structure. The property and structure is owned by Connecticut Light and Power Co. (CL&P). AT&T with the agreement of CL&P, proposes to modify the structure by installing antennas and associated equipment for telecommunications use and is petitioning the Council for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need (Certificate) is required for the modification.

AT&T proposes the installation of six panel antennas on a pipe extension. The antennas would extend approximately 10-feet above the existing 98-foot transmission line monopole structure (# 6077). The height at the top of the antennas would be about 109-feet above ground level (AGL), with a centerline of 108-feet AGL.

Equipment cabinets will be located on a 12-foot by 20-foot concrete pad within a 16-foot by 33-foot compound with an 8-foot high stockade fence with 1-foot of barbed wire near to the base of the tower. Placement of the proposed equipment compound would be within a vegetated area adjacent to a cleared area. The proposed compound would require the removal of some vegetation. AT&T investigated the possible use of the cleared area as a location of the equipment compound and have determined that they can not use the cleared area because it is owned by the Department of Transportation (DOT). The DOT has refused AT&T request for a lease or easement over their land in similar proposals. An underground conduit from an existing utility pole will provide power and telephone service to the site. A gravel access drive will be constructed for direct access to the site.

The zoning designation of this site is Commercial (CA). AT&T identified that the surrounding landscape is comprised of transmission towers, high voltage lines, right-of-way, the railroad station, Interstate 95 and commercial uses. The nearest residence is 350 feet to the north.

The worst-case power density for the telecommunications operations at the site has been calculated to be 2.77% of the applicable standard for uncontrolled environments.

AT&T contends that the proposed modification of the structure would not cause a substantial adverse environmental impact and would prevent the construction of a new tower in the area. AT&T also states that the proposed facility would not be out of scale with the existing surrounding landscape.



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

December 30, 2019

Greg Milano
SAI Group, LLC
12 Industrial Way
Salem, NH 03079

RE: **EM-CING-045-191206** – New Cingular Wireless PCS, LLC (AT&T) notice of intent to modify an existing telecommunications facility located at Flanders Road, East Lyme, Connecticut.

Dear Mr.-Milano:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

1. Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
2. Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
3. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
4. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by AT&T shall be removed within 60 days of the date the antenna ceased to function;
5. The validity of this action shall expire one year from the date of this letter; and
6. The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated December 2, 2019. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site by any dimension, increase noise levels at the tower site boundary by six decibels or more, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standards adopted by the Federal Communications Commission pursuant to Section 704 of the Telecommunications Act of 1996 and by the state Department of Energy and Environmental Protection pursuant to Connecticut General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below state and federal standards applicable to the frequencies now used on this tower.



CONNECTICUT SITING COUNCIL
Affirmative Action / Equal Opportunity Employer

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Sincerely,



Melanie A. Bachman
Executive Director

MAB/IN/emr

- c: The Honorable Mark C. Nickerson, First Selectman, Town of East Lyme
Gary Goeschel II, Director of Planning, Town of East Lyme
Eversource Energy, Tower and Property Owner

ATTACHMENT 3

CERTIFICATION

I hereby certify that on the 31st day of March 2020, a copy of AT&T's Exempt Modification Request to the Connecticut Siting Council was sent by electronic mail to the chief elected official and the planning and zoning department of the municipality in which the facility is located as well as by first class mail to the property owner and tower/facility owner.

A handwritten signature in blue ink that reads "Lucia Chiochio". The signature is written in a cursive style.

Dated: March 31, 2020

Cuddy & Feder LLP
445 Hamilton Ave, 14th Floor
White Plains, NY 10601
Attorneys for:
New Cingular Wireless PCS, LLC (AT&T)