

# GDIT

March 29, 2023

VIA ELECTRONIC AND FEDERAL EXPRESS

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

New Cingular Wireless PCS, LLC (“AT&T”)  
Notice of Exempt Modification  
Emergency Back-up Generator  
157 Chestnut Mountain Road, Stafford Springs, CT 06076  
Lat.: 41.97739810; Long.: -072.38313000

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 on the existing tower located at 157 Chestnut Mountain Road in the Town of Stafford, Connecticut. The underlying property is owned by Troiano Realty Corporation and the tower is owned by SBA. 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.

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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.” The planned modifications will ensure continuity of services by reinforcing AT&T’s backup 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”;
- 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.

This modification complies with the aforementioned approval. AT&T’s proposed modification will maintain compliance with any relevant conditions these original approvals and any other subsequent approvals. The proposed modifications will have no impact on the existing tower structure itself or the radiofrequency emissions as the proposed modifications only consist of the addition of one new generator within the grade-level 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.

§ 16-50j-73, a copy of this letter and enclosure are being sent to Sal P. Titus, Town of Stafford First Selectman, David Perkins, Zoning Enforcement Officer and Property and Tower Owners as stated above. Certification of Service is enclosed as Attachment 3.

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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

*Catherine Conklin*

Catherine Conklin, Site Acquisition Specialist  
General Dynamics Wireless Services  
2586 Industry Lane, Suite 100  
Norristown, PA 19403  
(202) 568-0437  
[catherine.conklin@gdit.com](mailto:catherine.conklin@gdit.com)

**GENERAL DYNAMICS**  
Information Technology

CC:

Sal P. Titus, First Selectman  
Warren Memorial Town Hall  
1 Main Street  
Stafford Springs, CT 06076  
(860) 684-1777

David Perkins, Zoning Enforcement Officer  
Warren Memorial Town Hall  
1 Main Street  
Stafford Springs, CT 06076  
(860) 684-1768

Troiano Realty Corporation, Property Owner  
777 Enfield Street  
Enfield, CT 06082  
(860) 745-0321

SBA, Tower Owner via email

# ATTACHMENT 1



# at&t Mobility

**SITE NAME: STAFFORD CHESTNUT**  
**FA LOCATION CODE: 10118582**  
**SBA ID: CT13617**

**GENERATOR PROJECT**  
**30KW GENERAC DIESEL GENERATOR**  
**200A GENERAC ATS**

**157 CHESTNUT MOUNTAIN RD**  
**STAFFORD SPRINGS, CT 06076**



PREPARED FOR:  
**GENERAL DYNAMICS**  
Information Technology, Inc.  
**GENERAL DYNAMICS**  
101 STATION DR  
WESTWOOD, MA 02090

Certification & 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.



*[Signature]* 3/27/2023  
Signature: Date:

MARK	DATE	DESCRIPTION

ISSUE PHASE	FINAL	DATE ISSUED
		03/27/2023

PROJECT TITLE:  
**STAFFORD CHESTNUT**  
**FA ID # 10118582**

PROJECT INFORMATION:  
157 CHESTNUT MOUNTAIN RD  
STAFFORD SPRINGS, CT 06076

SHEET TITLE:  
**TITLE SHEET**

SCALE: NONE

PROJECT NUMBER	57141
SHEET NUMBER	T-1

### VICINITY MAP



### SCOPE OF WORK

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

### 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 2021
- NATIONAL ELECTRIC CODE 2020
- 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

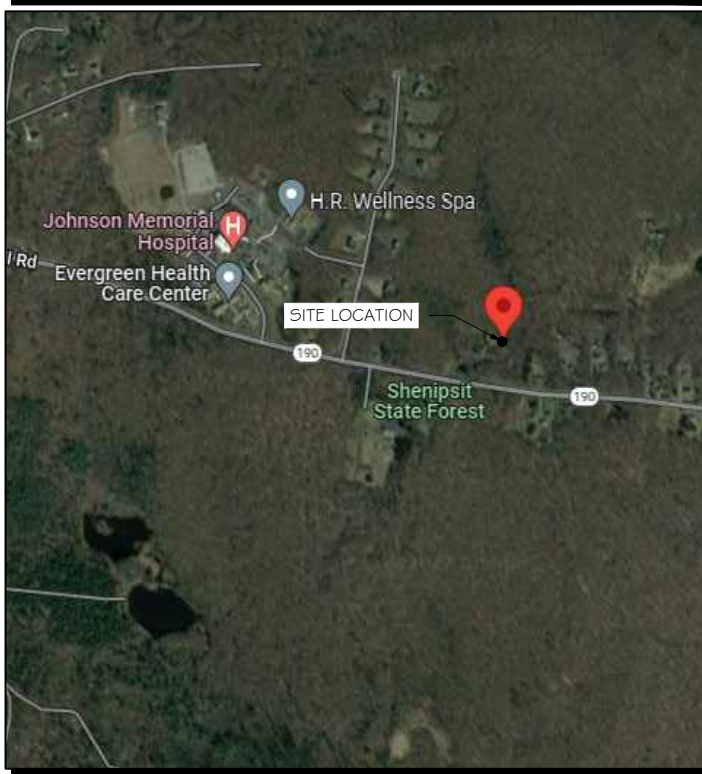


TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN CONNECTICUT

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

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

### AERIAL VIEW OF SITE



### PROJECT INFORMATION

#### PROJECT MANAGER:

MATTHEW HIGGINS  
GENERAL DYNAMICS WIRELESS SERVICES  
101 STATION DRIVE  
WESTWOOD, MA 02090  
EMAIL: Matthew.Higgins@GDIT.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:

AT&T MOBILITY  
7150 STANDARD DR  
HANOVER, MD 21076

#### SITE DATA:

SITE NAME: STAFFORD CHESTNUT  
FA NUMBER: 10118582

#### PROPERTY OWNER:

SBA  
8051 CONGRESS AVE  
BOCA RATON, FL 33487

#### ADDRESS:

157 CHESTNUT MOUNTAIN RD  
STAFFORD SPRINGS, CT 06076

#### COUNTY:

TOLLAND

LAT.: 41.9774°  
LONG.: -72.3831°

#### GROUND ELEVATION:

900 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.

### SHEET INDEX

#### GENERAL:

T-1 TITLE SHEET

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E-5.1 GENERAC ATS SPECIFICATIONS

### SIGNATURE BLOCK

AT&T MGR.	DATE
GENERAL DYNAMICS CONSTRUCTION MGR.	DATE
SITE ACQUISITION	DATE

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 CRAFTS 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 MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION SUBCONTRACTOR FURTHER AGREES TO INDEMNIFY 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 AT&T WIRELESS SERVICES TECHNICAL SPECIFICATIONS FOR FACILITY GROUNDING FOR CELL SITE STANDARDS, LATEST EDITION, AND COMPLY WITH AT&T TOWERS GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN. GROUNDING SHALL BE COMPLETED BEFORE ERECTION OF TOWER.
6. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION. IF TEMPORARY LIGHTING AND MARKING IS REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION (FAA), IT IS THE SUBCONTRACTOR'S 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 SUBCONTRACTOR'S 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 AT ALL TIMES. SILT AND EROSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE OF THE SITE AT ALL TIMES. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE SUBCONTRACTOR'S EXPENSE.
12. CLEARING OF TREES AND VEGETATION ON THE SITE SHOULD BE HELD TO A MINIMUM. ONLY THE TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED. ANY DAMAGE TO THE PROPERTY OUTSIDE THE LEASED PROPERTY SHALL BE REPAIRED BY THE SUBCONTRACTOR.
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/OR EXISTING UTILITIES BELIEVED TO BE IN THE WORKING AREA. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO VERIFY ALL UTILITIES, PIPELINES AND OTHER STRUCTURES SHOWN OR NOT SHOWN ON THESE PLANS. THE SUBCONTRACTOR SHALL CONTACT THE LOCAL JURISDICTION'S DIGGER'S HOTLINE BEFORE DIGGING OR DRILLING. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AND ENGINEER AT THE SUBCONTRACTOR'S 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 SHELTER 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

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 AT&T AND EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.
2. COORDINATE LOCATION AND REQUIREMENTS FOR ELECTRICAL AND TELEPHONE SERVICES WITH THE PROPERTY REPRESENTATIVE, AT&T 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. UNINTERRUPTED ELECTRICAL SERVICE FOR EXISTING EQUIPMENT SHALL BE MAINTAINED DURING THE INSTALLATION OF THE WORK DESCRIBED UNDER THESE DOCUMENTS. TEMPORARY EQUIPMENT, CABLES AND WHATEVER ELSE IS NECESSARY SHALL BE PROVIDED AS REQUIRED TO MAINTAIN ELECTRICAL SERVICE. TEMPORARY SERVICE FACILITIES, IF REQUIRED 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 CONTRACTOR SHALL REQUEST PERMISSION IN WRITING STATING THE DATE, TIME, ETC. 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 RACEWAY 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 APPLICABLE SECTIONS OF THE STANDARDS REFERENCED BELOW:
  - a. ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE)
  - b. ASTM (AMERICAN SOCIETY FOR TESTING MATERIALS)
  - c. ETL (ELECTRICAL TESTING LABORATORY)
  - d. ICEA (INSULATED CABLE ENGINEERS ASSOCIATION)
  - e. IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS)
  - f. MBFU (NATIONAL BOARD OF FIRE UNDERWRITERS)
  - g. NESC (NATIONAL ELECTRICAL SAFETY CODE)
  - h. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)
  - i. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
  - j. UL (UNDERWRITER'S 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 HIS OWN TAKEOFF FOR MATERIAL QUANTITY AND TYPES BASED ON ACTUAL SITE CONDITIONS, IN ADDITION, CONTRACTOR SHALL PROVIDE 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 CONTRACTOR'S 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.

B. 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 (380 DEGREES TOTAL) EXIST IN A CONDUIT RUN.
2. ALL POWER AND CONTROL/INDICATION WIRING SHALL BE TYPE THHN/THWN 800V RATED 75 DEGREES CELSIUS, UNLESS NOTED OTHERWISE.

3. SCHEDULE 80 PVC CONDUIT SHALL BE USED ABOVE GROUND, WHERE ABOVE GRADE IS DEFINED AS THE GROUND OF THE TURN-UP
4. BELL END OR TERMINAL ADAPTER MUST BE INSTALLED ON END OF PVC CONDUIT PER NEC 352.4G. 300.4 F. (3)
5. CONDUIT BENDS SHALL BE MADE IN ACCORDANCE WITH NEC TABLE 346-10. NO RIGHT ANGLE DEVICE 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. CONTRACTOR SHALL ENSURE INTEGRITY IS MAINTAINED WHEN INSTALLING CONDUIT AND WIRING.
10. INSTALL PULL STRING IN ALL CONDUIT.

11. FOR ROOFTOP INSTALLS AND BUILD-OUTS, CONDUITS INSIDE BUILDING AND ON ROOF SHALL BE RGS, UNLESS OTHERWISE NOTED. FOR RAW LAND SITES AND CO-LOCATES, PVC SCHEDULE 80 SHALL BE UTILIZED UNLESS NOTED OTHERWISE.
12. MAINTAIN 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.

C. EQUIPMENT

1. EQUIPMENT/PARTS CONNECTED TO EXISTING PANELS, DUCTS, ETC. SHALL MATCH THE CHARACTERISTICS (AVC, 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 ALL 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. ADJUST 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 AND THE CURRENT EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE. BONDING JUMPERS WITH APPROVED GROUND FITTINGS SHALL BE INSTALLED AT ALL RACEWAYS, 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 STAMPED/EMBEDDED.

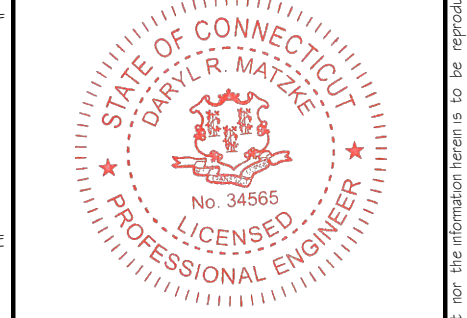
E. INSPECTION/DOCUMENTATION

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 SYSTEM'S RECEPTIVITY (MAX. 5 OHMS).
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 ATS AND GENERATOR RELAY INSTALLATION AND CONNECTIONS INSPECTED BY OTHERS TO ENSURE THAT UL LISTING FOR THAT EQUIPMENT IS NOT VOIDED.



CONSULTANT:  
**GENERAL DYNAMICS**  
 Information Technology, Inc.  
 GENERAL DYNAMICS  
 101 STATION DR  
 WESTWOOD, MA 02090

Certification & 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.



Signature: *[Signature]* Date: 3/27/2023


MARK	DATE	DESCRIPTION
ISSUE PHASE	FINAL	DATE ISSUED 03/27/2023

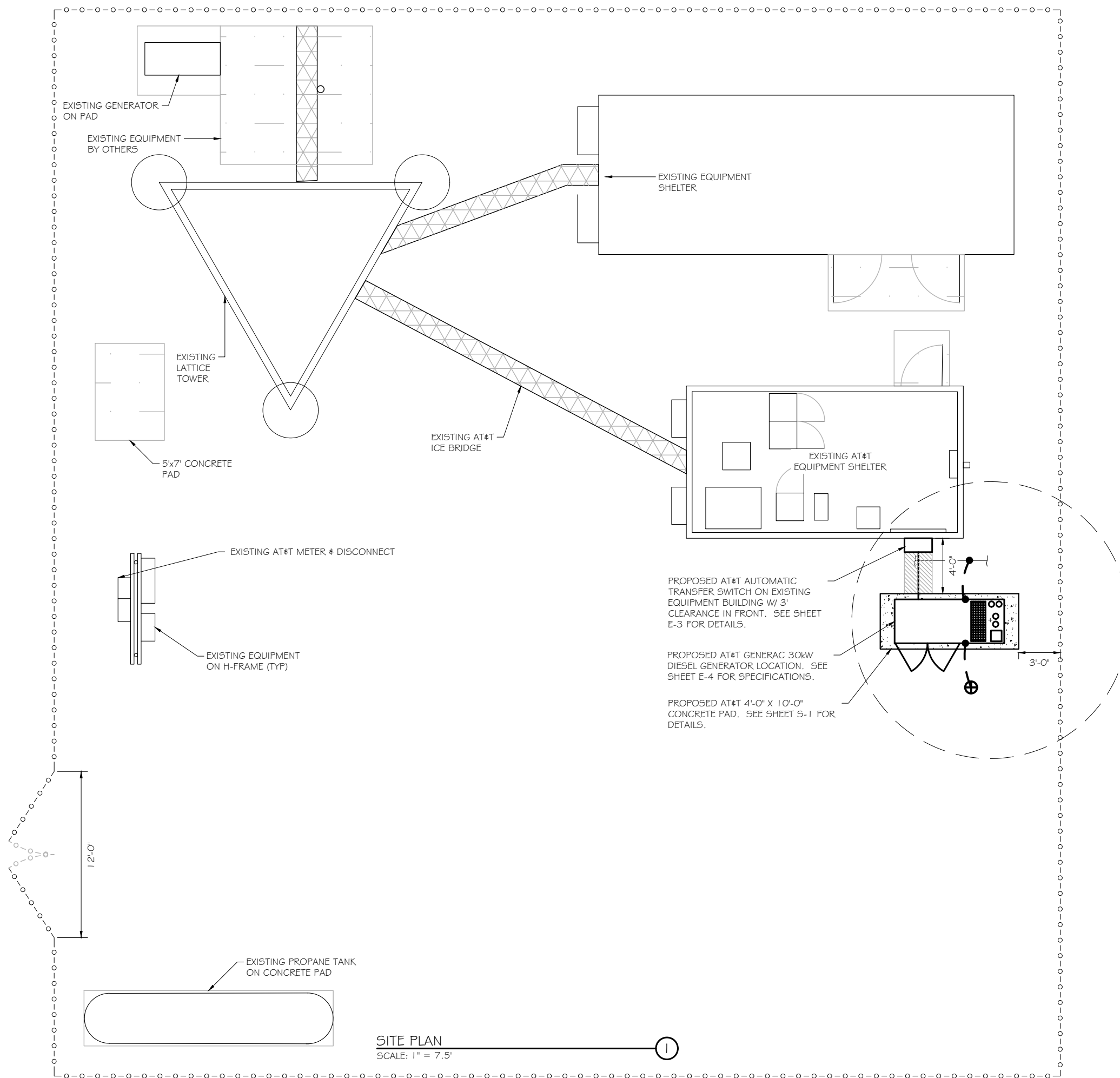
PROJECT TITLE:  
**STAFFORD CHESTNUT  
 FA ID # 10118582**

PROJECT INFORMATION:  
 157 CHESTNUT MOUNTAIN RD  
 STAFFORD SPRINGS, CT 06076

SHEET TITLE:  
**GENERAL NOTES**

SCALE: NONE

PROJECT NUMBER	57141
SHEET NUMBER	N-1



PREPARED FOR:

CONSULTANT:  
**GENERAL DYNAMICS**  
 Information Technology, Inc.  
 GENERAL DYNAMICS  
 101 STATION DR  
 WESTWOOD, MA 02090

Certification & 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.



*[Signature]* 3/27/2023  
 Signature: Date:

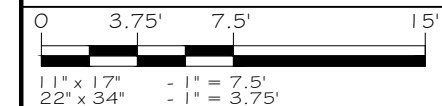
MARK	DATE	DESCRIPTION

ISSUE PHASE	DATE ISSUED
FINAL	03/27/2023

PROJECT TITLE:  
**STAFFORD CHESTNUT**  
**FA ID # 10118582**

PROJECT INFORMATION:  
 157 CHESTNUT MOUNTAIN RD  
 STAFFORD SPRINGS, CT 06076

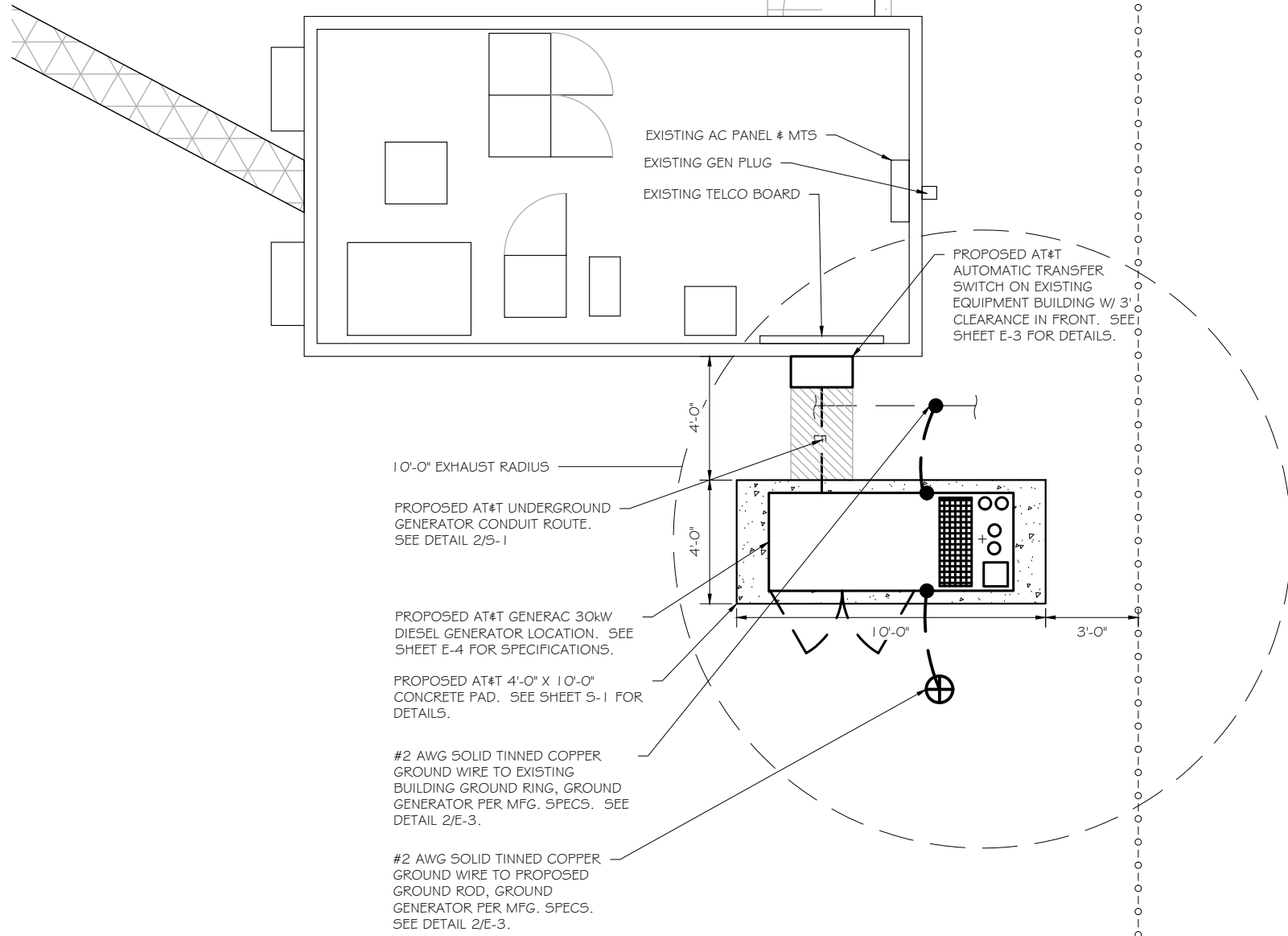
SHEET TITLE:  
**SITE PLAN**



PROJECT NUMBER: 57141  
 SHEET NUMBER: A-1

SCOPE OF WORK DETAILS

- GENERAL:**
- NEW GENERAC DIESEL GENERATOR PROVIDED BY GENERAL DYNAMICS & INSTALLED BY GENERAL CONTRACTOR, SEE E-4.
  - NEW 4'-0" X 10'-0" CONCRETE PAD PROVIDED & INSTALLED BY GENERAL CONTRACTOR (AS REQUIRED) SEE S-1
  - NEW GENERAC AUTOMATIC TRANSFER SWITCH PROVIDED BY GENERAL DYNAMICS & INSTALLED BY CONTRACTOR (AS REQUIRED) SEE E-3 & E-5.
  - CONTRACTOR TO VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION
  - CONTRACTOR SHALL RESTORE & REPAIR ANY DAMAGED AREAS CAUSED BY CONSTRUCTION TO ORIGINAL OR BETTER CONDITION
- CONDUITS:**
- INSTALL PULL STRING IN EACH CONDUIT
  - (1) NEW 2" AND (1) NEW 1" ELECTRICAL CONDUITS WITH CONDUCTORS TO RUN FROM NEW GENERATOR TO NEW ATS. CONDUIT PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. SEE E-1, E-2 & E-3.
  - (1) NEW 1" ELECTRICAL CONDUIT WITH CONDUCTORS TO RUN FROM NEW GENERATOR TO AC PANEL. CONDUIT PROVIDED & INSTALLED BY GENERAL CONTRACTOR. SEE E-1, E-2 & E-3.
  - (1) NEW 1" ALARM CONDUIT & CABLING PROVIDED & INSTALLED BY GENERAL CONTRACTOR. SEE E-1, E-2 & E-3.
- GROUNDING:**
- NEW EXOTHERMIC CONNECTION FROM EXISTING GROUND RING TO NEW MECHANICAL CONNECTION AT GENERATOR CHASSIS. GENERAL CONTRACTOR TO VERIFY LOCATION IN FIELD. LOCATE GROUND RODS NO MORE THAN 8'-0" APART.



**SITE PLAN**  
SCALE: 1" = 5'



PREPARED FOR:

CONSULTANT:  
**GENERAL DYNAMICS**  
 Information Technology, Inc.  
 GENERAL DYNAMICS  
 101 STATION DR  
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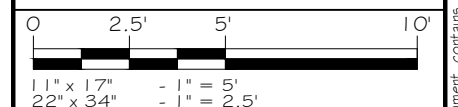
MARK	DATE	DESCRIPTION

ISSUE PHASE	DATE ISSUED
FINAL	03/27/2023

PROJECT TITLE:  
**STAFFORD CHESTNUT**  
**FA ID # 10118582**

PROJECT INFORMATION:  
 157 CHESTNUT MOUNTAIN RD  
 STAFFORD SPRINGS, CT 06076

SHEET TITLE:  
**SITE PLAN & EQUIPMENT LAYOUT**



PROJECT NUMBER	57141
SHEET NUMBER	A-2





DIAGRAM CIRCUIT SCHEDULE

NO.	FROM	TO	WIRES	GROUND	CONDUIT SIZE	FUNCTION
1	NORMAL POWER SOURCE	AUTOMATIC TRANSFER SWITCH	(3) 3/0	(1) #4	2"	NORMAL POWER FEEDER TO ATS (CUT BACK EXISTING)
2	AUTOMATIC TRANSFER SWITCH	LOAD CENTER	(3) 3/0	(1) #4	2"	POWER FEEDER FROM ATS TO PANEL
3	GENERATOR	AUTOMATIC TRANSFER SWITCH	(3) #1	(1) #6	1-1/2"	EMERGENCY POWER FEEDER TO ATS
4	AUTOMATIC TRANSFER SWITCH	GENERATOR	(2) #10	(1) #10	1"	START CIRCUIT
5	LOAD CENTER (DISTRIBUTION CENTER)	GENERATOR, ATS	(2) #12 (2) #12 (2) #12	(1) #12 (1) #12 (1) #12	1" 1" 1"	CIRCUIT FOR GENERATOR BLOCK HEATER & BATTERY HEATER CIRCUIT FOR BATTERY CHARGER CIRCUIT FOR ATS
6	GENERATOR	AUTOMATIC TRANSFER SWITCH	12-PAIR 24 AWG OR 2EA 6-PAIR CAT5	N/A	1"	ALARM CABLES (1) 12 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	12-PAIR 24 AWG OR 2EA 6-PAIR CAT5	N/A	1"	ALARM CABLES (1) 12 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

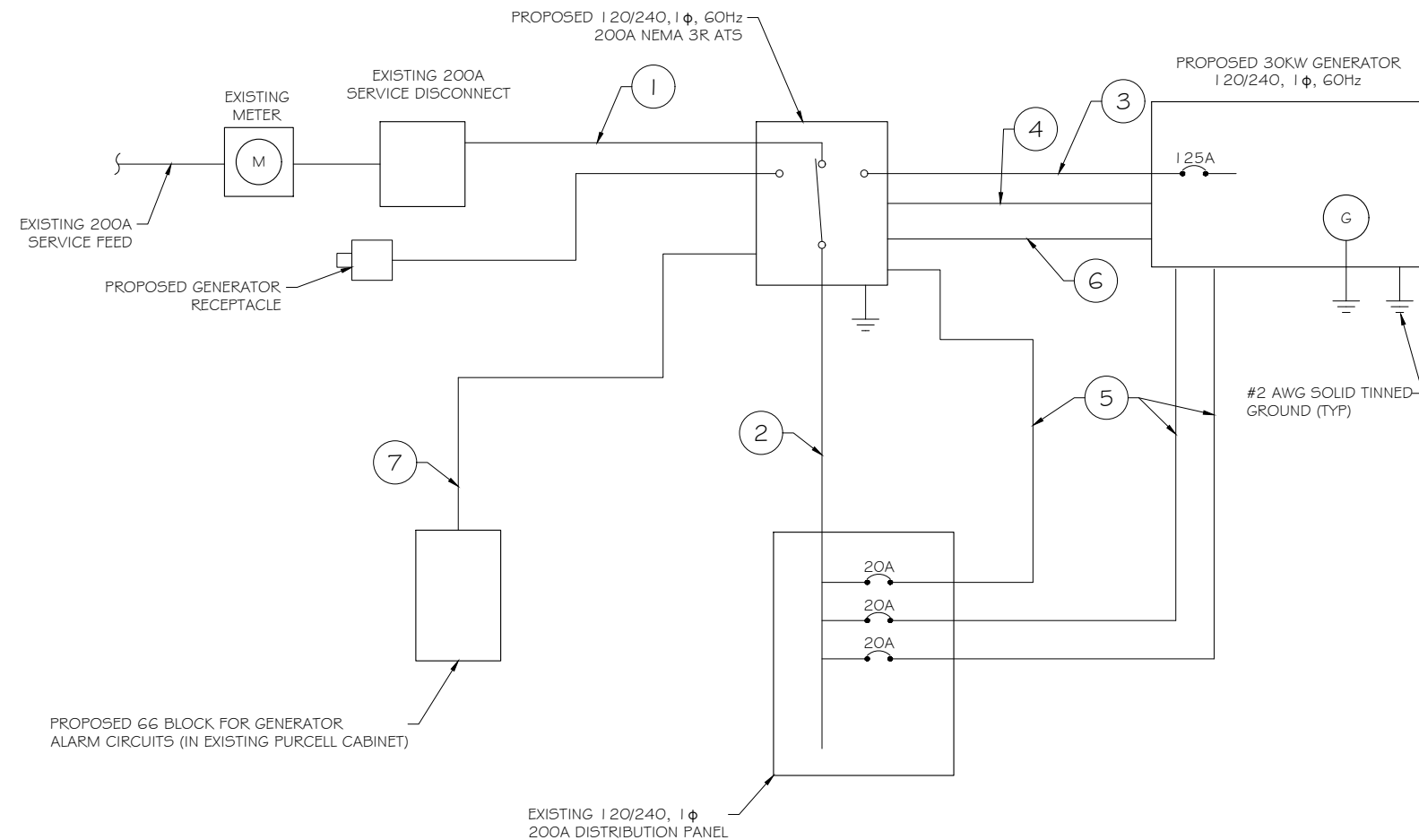
CIRCUIT DETAIL  
SCALE: NTS

ALARM WIRE IDENTIFICATION CHART

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

\*CAT5 CABLE ONLY, FROM 2ND CAT5 CABLE

ALARM WIRING IDENTIFICATION CHART  
SCALE: NTS



PROPOSED WIRING DIAGRAM  
SCALE: NTS



PREPARED FOR:



CONSULTANT:  
**GENERAL DYNAMICS**  
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PROJECT TITLE:  
**STAFFORD CHESTNUT**  
**FA ID # 10118582**

PROJECT INFORMATION:  
 157 CHESTNUT MOUNTAIN RD  
 STAFFORD SPRINGS, CT 06076

SHEET TITLE:  
**WIRING DETAILS**

SCALE: NONE

PROJECT NUMBER: 57141  
 SHEET NUMBER: E-1

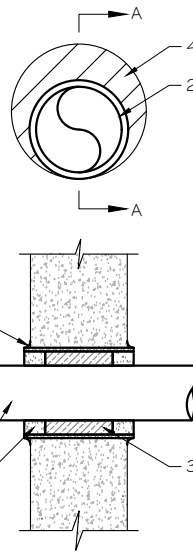
AC Distribution Panel - Layout Diagram									
Breaker Position	Breaker Type	On/Off	Size	Circuit Label	Breaker Position	Breaker Type	On/Off	Size	Circuit Label
1	2P	ON	50	HVAC 1	2	1P	OFF	20	SPARE
3					4	1P	ON	20	TELCO RECEIPT
5	1P	ON	20	INT. LIGHTS	6	1P	ON	20	RECEPT LEFT
7	1P	ON	20	GFCI	8				
9	1P	ON	20	EXT. LIGHTS	10	2P	ON	50	HVAC 2
11					12				
13	2P	ON	20	RECT 1	14	2P	ON	30	RECT 2
15					16				
17	2P	ON	30	RECT 3	18	2P	ON	30	RECT 4
19					20				
21	2P	ON	30	RECT 5	22	2P	ON	30	RECT 6
23					24				
25	2P	ON	30	RECT 7	26	2P	ON	30	RECT8
27					28	1P	ON	20	RECEPT RIGHT
29	2P	ON	30	RECT 9	30	1P	OFF	20	SPARE
31	1P	OFF	20	SPARE	32	1P	ON	20	SMOKE DETECTOR
33	1P	OFF	20	SPARE	34	1P	ON	20	BATTERY CHARGER
35					36	1P	ON	20	ATS
37					38	1P	ON	20	BLOCK HEATER
39					40				
41					42				

PROPOSED 20A BREAKERS FOR ATS, BLOCK HEATER AND BATTERY CHARGER ON NEW AT#T GENERATOR

**EXISTING PANEL SCHEDULE**  
SCALE: NTS

NOTE:  
CONTRACTOR TO LABEL WIRES WITH P-TOUCH OR SIMILAR LABELS ONLY. ABSOLUTELY NO HANDWRITTEN LABELS.

\*CONTRACTOR TO UTILIZE NEXT AVAILABLE IN SEQUENCE SINGLE BREAKER POSITION FOR GENERATOR, BATTERY CHARGER, BATTERY HEATER AND BLOCK HEATER



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

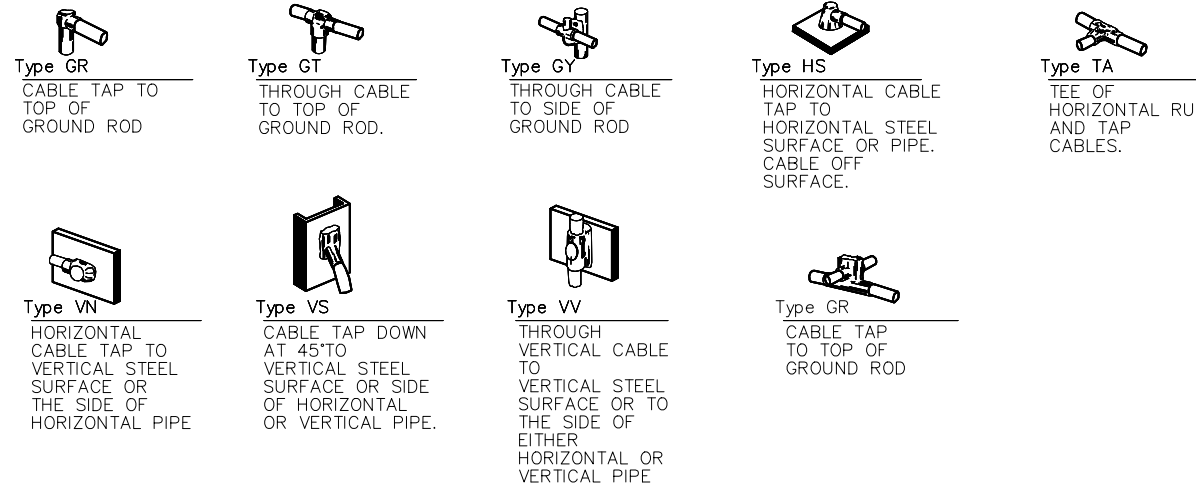
U.L. SYSTEM NO. C-AJ-1150  
CONDUIT THROUGH BEARING WALL SIMILAR TO U.L. DESIGN NO. U902  
F RATING = 3 HR  
T RATING = 0 HR

- 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 CONCRETE BLOCKS (9CATZ) 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 0". (POINT CONTACT) TO MAXIMUM 1-3/8". THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:
  - STEEL PIPE-NOMINAL 6" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE.
  - IRON PIPE-NOMINAL 6" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.
  - CONDUIT - NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR NOMINAL 3-1/2" DIAMETER (OR SMALLER) STEEL CONDUIT.
- PACKING MATERIAL: MINIMUM 6" THICKNESS OF MIN 4.0 PCF MINERAL WOOL BATTING INSULATION FIRMLY 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.
- FILL, VOID, 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 CP6015 OR CP604 SEALANT IS USED.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. : CP6015, CP604, CP606, OR F5-ONE SEALANT.

\* BEARING THE UL CLASSIFICATION MARK

**OUTER WALL PENETRATION DETAIL (IF APPLICABLE)**  
SCALE: NTS



**CADWELD DETAILS**  
SCALE: NTS

PREPARED FOR:

CONSULTANT:  
**GENERAL DYNAMICS**  
Information Technology, Inc.  
GENERAL DYNAMICS  
101 STATION DR  
WESTWOOD, MA 02090

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PROJECT TITLE:  
**STAFFORD CHESTNUT  
FA ID # 10118582**

PROJECT INFORMATION:  
157 CHESTNUT MOUNTAIN RD  
STAFFORD SPRINGS, CT 06076

SHEET TITLE:  
**PANEL AND PENETRATION  
DETAILS**

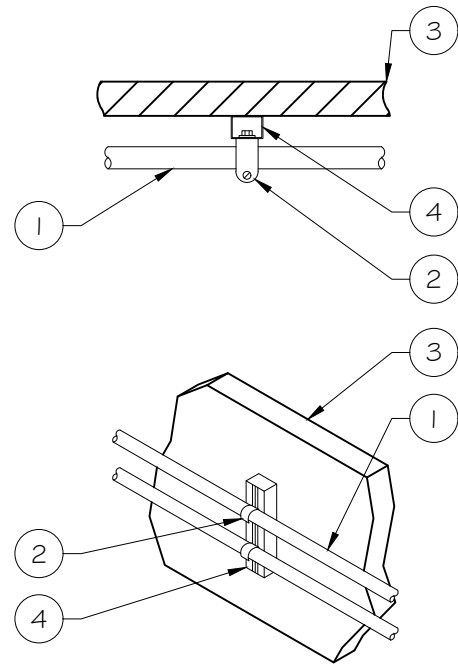
SCALE: NONE

PROJECT NUMBER: 57141  
SHEET NUMBER: E-2

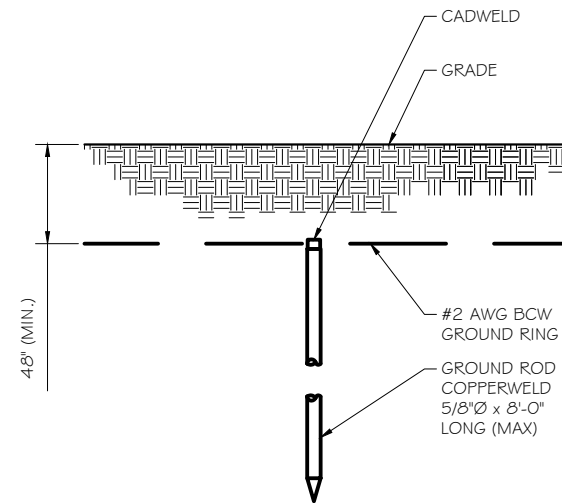
- 1 CONDUIT (TYP)
- 2 BUTTERFLY CLAMP AS REQUIRED
- 3 EXISTING WALL/CEILING
- 4 VERTICAL "UNISTRUT" P1000 T SERIES LENGTH BASED ON NUMBER OF CONDUIT TO BE MOUNTED

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



CONDUIT WALL MOUNT  
 SCALE: NTS 1

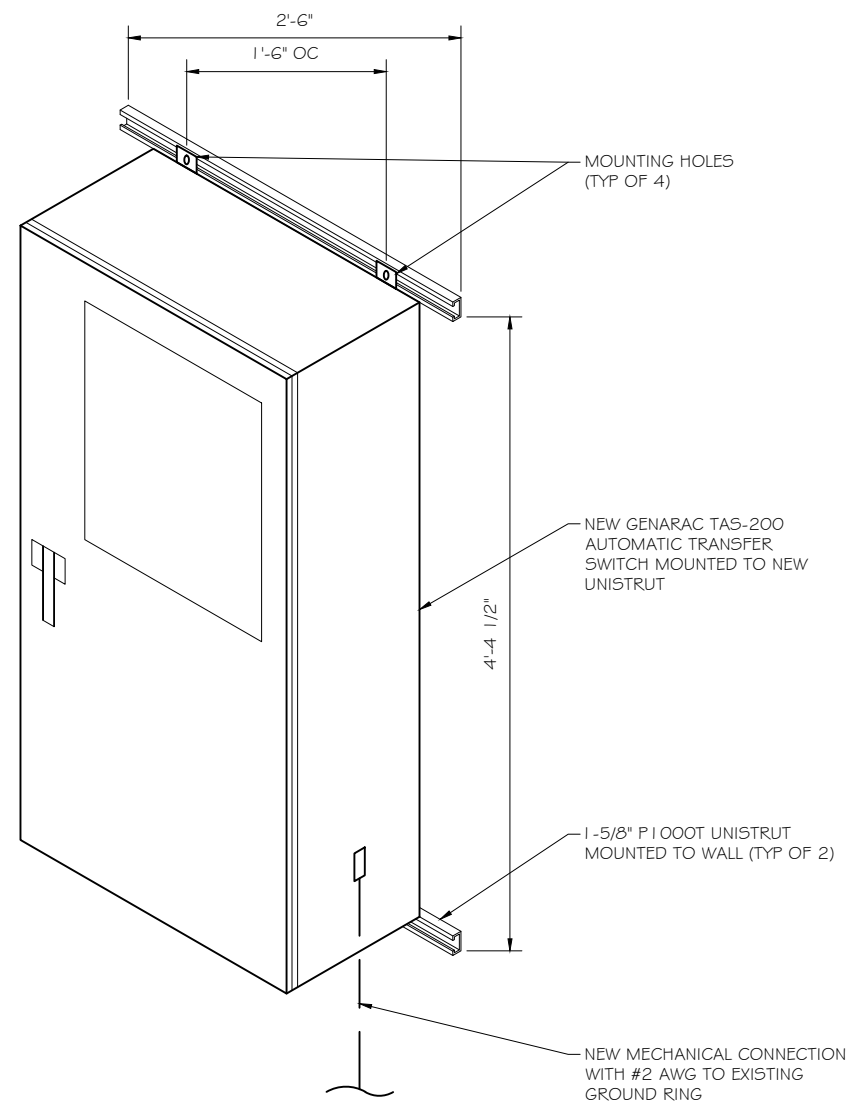


GROUND ROD DETAIL  
 SCALE: NTS 2

NOTE:  
 1. GROUND RODS MAY BE:  
 - COPPER CLAD STEEL  
 - SOLID COPPER  
 2. GROUND RODS SHALL HAVE A MAXIMUM SPACING TWICE THE LENGTH OF ROD  
 3. SEE RESISTIVITY REPORT FOR VERIFICATION AS AVAILABLE  
 4. A LARGER CONDUCTOR SHALL BE REQUIRED IN AREAS HIGHLY PRONE TO LIGHTNING AND/OR AREAS WITH HIGHLY ACIDIC SOIL  
 5. 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/TIA-EIA-222-G)  
 6. PROVIDE (1) GROUND LEAD TO EACH SIDE OF THE GENERATOR

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:  
 1. USE GALVANIZED OR STAINLESS STEEL HARDWARE FOR WALL MOUNT AND CONNECTION OF CHANNELS  
 2. GC SHALL USE NON-SHRINKING CAULK TO WEATHER SEAL ALL PENETRATIONS INTO OR THROUGH SHELTER WALL



GENERAC ATS MOUNTING DETAIL  
 SCALE: NTS 3

RAMAKER  
 employee-owned  
 (608) 643-4100 www.ramaker.com

PREPARED FOR:

CONSULTANT:  
**GENERAL DYNAMICS**  
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**STAFFORD CHESTNUT**  
**FA ID # 10118582**

PROJECT INFORMATION:  
 157 CHESTNUT MOUNTAIN RD  
 STAFFORD SPRINGS, CT 06076

SHEET TITLE:  
**ATS, CONDUIT & GROUND ROD**  
**DETAILS**

SCALE: NONE

PROJECT NUMBER: 57141  
 SHEET NUMBER: E-3

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



**Standby Power Rating**  
 30 kW, 38 kVA, 60 Hz

**Prime Power Rating\***  
 27 kW, 34 kVA, 60 Hz

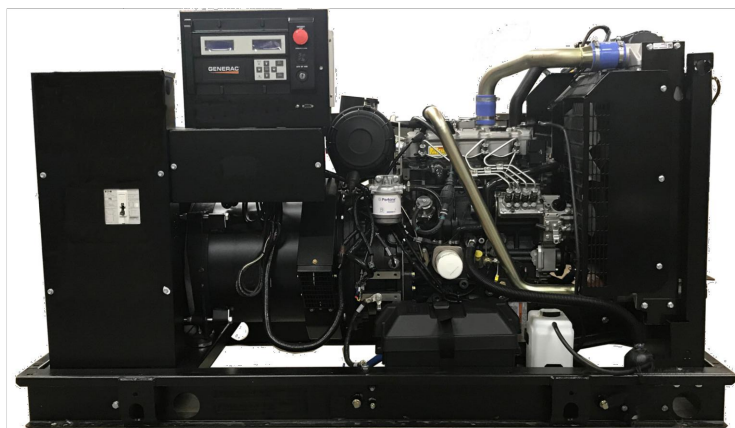


Image used for illustration purposes only



\*EPA Certified Prime ratings are not available in the US or its Territories

**Codes and Standards**

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

- UL2200, 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 C62.41

**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.

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



**STANDARD FEATURES**

**ENGINE SYSTEM**

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Critical Silencer (Enclosed Unit Only)
- Engine Coolant Heater

**Fuel System**

- Fuel Lockoff Solenoid
- Primary Fuel Filter

**Cooling System**

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene Glycol Antifreeze

**Electrical System**

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

**ALTERNATOR SYSTEM**

- UL2200 GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearing
- Rotor Dynamically Spin Balanced
- Amortisseur 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
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Unit Only)

**ENCLOSURE (If Selected)**

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)
- Gasketed Doors
- Stamped Air-Intake Louvers
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

**FUEL TANKS (If Selected)**

- UL 142/UIC S601
- Double Wall
- Normal and Emergency Vents
- Sloped Top
- Sloped Bottom
- Factory Pressure Tested
- Rupture Basin Alarm
- Fuel Level
- Check Valve In Supply and Return Lines
- RhinoCoat™ - Textured Polyester Powder Coat Paint
- Stainless Steel Hardware

**CONTROL SYSTEM**



**Digital H Control Panel- Dual 4x20 Display**

**Program Functions**

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- All Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Data/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors

- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus® Protocol
- Predictive Maintenance Algorithm
- Sealed 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
- kW Hours, Total, and Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency

**Alarms and Warnings**

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Overspeed
- Battery Voltage
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

employee-owned  
 (608) 643-4100 www.ramaker.com

PREPARED FOR:

CONSULTANT:  
**GENERAL DYNAMICS**  
 Information Technology, Inc.  
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**STAFFORD CHESTNUT**  
**FA ID # 10118582**

PROJECT INFORMATION:  
 157 CHESTNUT MOUNTAIN RD  
 STAFFORD SPRINGS, CT 06076

SHEET TITLE:  
**GENERAC 30KW GENERATOR SPECIFICATIONS**

SCALE: NONE

PROJECT NUMBER	57141
SHEET NUMBER	E-4

SPEC SHEET  
1 of 6

SPEC SHEET  
2 of 6

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



**CONFIGURABLE OPTIONS**

**ENGINE SYSTEM**

- Oil Heater
- Critical Silencer (Open Set Only)
- Radiator Stone Guard
- Level 1 Fan and Belt Guards (Open Set Only)

**FUEL SYSTEM**

- NPT Flexible Fuel Line

**ELECTRICAL SYSTEM**

- 10A UL Listed Battery Charger
- Battery Warmer

**ALTERNATOR SYSTEM**

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating
- Permanent Magnet Excitation

**GENERATOR SET**

- Extended Factory Testing
- 8 Position Load Center
- Pad Vibration Isolation

**ENGINEERED OPTIONS**

**ENGINE SYSTEM**

- Coolant Heater Isolation Ball Valves
- Fluid Containment Pan

**CONTROL SYSTEM**

- Spare Inputs (x4) / Outputs (x4)
- Battery Disconnect Switch

**CIRCUIT BREAKER OPTIONS**

- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

**ENCLOSURE**

- Weather Protected Enclosure
- Level 1 Sound Attenuation
- Level 2 Sound Attenuation
- Level 2 Sound Attenuation with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
- Door Alarm Switch
- Enclosure Heater
- Damper Alarm Contacts

**WARRANTY (Standby Gensets Only)**

- 2 Year Extended Limited Warranty
- 5 Year Limited Warranty
- 5 Year Extended Limited Warranty
- 7 Year Extended Limited Warranty
- 10 Year Extended Limited Warranty

**ALTERNATOR SYSTEM**

- 3rd Breaker System

**GENERATOR SET**

- Special Testing

**CONTROL SYSTEM**

- NFPA 110 Compliant 21-Light Remote Annunciator
- Remote Relay Assembly (8 or 16)
- Oil Temperature Indication and Alarm
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- 100 dB Alarm Horn
- Ground Fault Annunciation
- 120V GFCI and 240V Outlets
- Remote Communication - Modem
- 10A Engine Run Relay

**FUEL TANKS (Size On Last Page)**

- 8 in (203.2 mm) Fill Extension
- 13 in (330.2 mm) Fill Extension
- 19 in (482.6 mm) Fill Extension
- Overfill Protection Valve
- 5 Gallon Spill Box Return Hose
- 5 Gallon Spill Box
- Tank Risers
- Fuel Level Switch and Alarm
- 12' Vent System
- Fire Rated Stainless Steel Fuel Hose

**FUEL TANKS**

- UL2085 Tank
- Stainless Steel Tanks
- Special Fuel Tanks
- Vent Extensions

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



**APPLICATION AND ENGINEERING DATA**

**ENGINE SPECIFICATIONS**

General

Make	Perkins
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	4
Type	In-Line
Displacement - in <sup>3</sup> (L)	135 (2.22)
Bore - in (mm)	3.3 (84)
Stroke - in (mm)	3.9 (100)
Compression Ratio	23.3:1
Intake Air Method	Turbocharged
Cylinder Head	Cast Iron
Piston Type	Aluminum
Crankshaft Type	Forged Steel

Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	±0.5%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full-Flow
Crankcase Capacity - qt (L)	11.2 (10.6)

Cooling System

Cooling System Type	Closed Recovery
Water Pump Type	Pre-Lubed, Self Sealing
Fan Type	Pusher
Fan Speed - RPM	1,980
Fan Diameter - in (mm)	18 (457)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel #2
Fuel Specifications	ASTM
Fuel Filtering (Microns)	5
Fuel Inject Pump	Distribution Injection Pump
Fuel Pump Type	Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Line - in (mm)	0.31 (7.9) ID
Fuel Return Line - in (mm)	0.2 (4.8) ID

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

**ALTERNATOR SPECIFICATIONS**

Standard Model	K0035124Y21
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5% (3-Phase)
Telephone Interference Factor (TIF)	< 50

Standard Excitation	Brushless
Bearings	Single Sealed
Coupling	Direct via Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%



PREPARED FOR:



CONSULTANT:

**GENERAL DYNAMICS**  
 Information Technology, Inc.

GENERAL DYNAMICS  
 101 STATION DR  
 WESTWOOD, MA 02090

Certification & 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.



Signature: *[Signature]* Date: 3/27/2023


MARK	DATE	DESCRIPTION
ISSUE PHASE	FINAL	DATE ISSUED 03/27/2023

PROJECT TITLE:

**STAFFORD CHESTNUT**  
**FA ID # 10118582**

PROJECT INFORMATION:  
 157 CHESTNUT MOUNTAIN RD  
 STAFFORD SPRINGS, CT 06076

SHEET TITLE:  
**GENERAC 30KW GENERATOR SPECIFICATIONS**

SCALE: NONE

PROJECT NUMBER: 57141  
 SHEET NUMBER: E-4.1

SPEC SHEET

3 of 6

SPEC SHEET

4 of 6

**SD030 | 2.2L | 30 kW**  
**INDUSTRIAL DIESEL GENERATOR SET**

EPA Certified Stationary Emergency



**OPERATING DATA**

**POWER RATINGS**

	Standby
Single-Phase 120/240 VAC @1.0pf	30 kW Amps: 125
Three-Phase 120/208 VAC @0.8pf	30 kW Amps: 104
Three-Phase 120/240 VAC @0.8pf	30 kW Amps: 90
Three-Phase 277/480 VAC @0.8pf	30 kW Amps: 45
Three-Phase 346/600 VAC @0.8pf	30 kW Amps: 36

**MOTOR STARTING CAPABILITIES (skVA)**

skVA vs. Voltage Dip			
277/480 VAC	30%	208/240 VAC	30%
K0035124Y21	61	K0035124Y21	46
K0040124Y21	76	K0040124Y21	58
K0050124Y21	98	K0050124Y21	75

**FUEL CONSUMPTION RATES\***

Fuel Pump Lift- ft (m)	Diesel - gph (Lph)	
	Percent Load	Standby
3 (1)	25%	1.0 (3.7)
	50%	1.4 (5.2)
	75%	2.0 (7.5)
	100%	2.8 (10.5)

Total Fuel Pump Flow (Combustion + Return) - gph (Lph)  
16.6 (63)

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

**COOLING**

	Standby
Coolant Flow	gpm (Lpm) 14.9 (56.2)
Coolant System Capacity	gal (L) 2.5 (9.5)
Heat Rejection to Coolant	BTU/hr (kW) 128,638 (136)
Inlet Air	scfm (m³/hr) 2,800 (4,757)
Maximum Operating Ambient Temperature	°F (°C) 122 (50)
Maximum Operating Ambient Temperature (Before Derate)	See Bulletin No. 0199280SSD
Maximum Radiator Backpressure	in H <sub>2</sub> O (kPa) 0.5 (0.12)

**COMBUSTION AIR REQUIREMENTS**

Standby	
Flow at Rated Power scfm (m³/min)	88 (2.5)

**ENGINE**

	Standby
Rated Engine Speed	RPM 1,800
Horsepower at Rated kW**	hp 49
Piston Speed	ft/min (m/min) 1,181 (360)
BMEP	psi (kPa) 159 (1,096)

**EXHAUST**

	Standby
Exhaust Flow (Rated Output)	scfm (m³/min) 296.6 (8.4)
Max. Allowable Backpressure (Post Turbocharger)	inHg (kPa) 1.5 (5.1)
Exhaust Temp (Rated Output)	°F (°C) 892 (478)

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

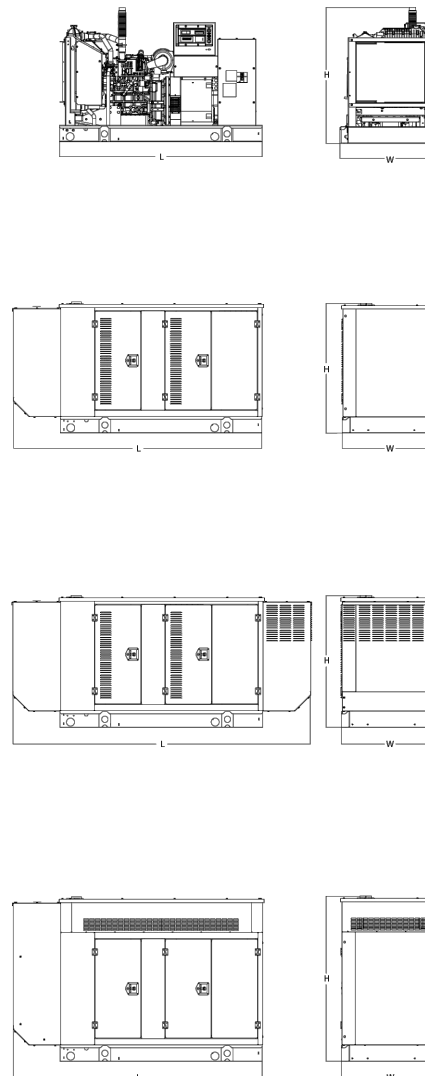
Deration - Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards.  
 Standby - See Bulletin 0187500SSB  
 Prime - See Bulletin 0187510SSB

**SD030 | 2.2L | 30 kW**  
**INDUSTRIAL DIESEL GENERATOR SET**

EPA Certified Stationary Emergency



**DIMENSIONS AND WEIGHTS\***



**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 (1,930) x 37.4 (950) x 44.8 (1,138)	1,641 (745)
19	54 (204)	76.0 (1,930) x 37.4 (950) x 57.8 (1,468)	2,121 (963)
47	132 (501)	76.0 (1,930) x 37.4 (950) x 69.8 (1,773)	2,351 (1,067)
75	211 (799)	76.0 (1,930) x 37.4 (950) x 81.8 (2,078)	2,560 (1,162)
107	300 (1,136)	92.9 (2,360) x 37.4 (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) Enclosure Only	
			Steel	Aluminum
No Tank	-	94.8 (2,409) x 38.0 (965) x 49.5 (1,258)		
19	54 (204)	94.8 (2,409) x 38.0 (965) x 62.5 (1,588)	372 (170)	241 (110)
47	132 (501)	94.8 (2,409) x 38.0 (965) x 74.5 (1,893)		
75	211 (799)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)		
107	300 (1,136)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)		

**LEVEL 1 ACOUSTIC ENCLOSURE**

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	112.5 (2,857) x 38.0 (965) x 49.5 (1,258)		
19	54 (204)	112.5 (2,857) x 38.0 (965) x 62.5 (1,582)		
47	132 (501)	112.5 (2,857) x 38.0 (965) x 74.5 (1,893)	505 (230)	338 (154)
75	211 (799)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)		
107	300 (1,136)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)		

**LEVEL 2 ACOUSTIC ENCLOSURE**

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	94.8 (2,407) x 38.0 (965) x 61.1 (1,551)		
19	54 (204)	94.8 (2,407) x 38.0 (965) x 74.1 (1,881)		
47	132 (501)	94.8 (2,407) x 38.0 (965) x 86.1 (2,186)	510 (232)	341 (155)
75	211 (799)	94.8 (2,407) x 38.0 (965) x 98.1 (2,491)		
107	300 (1,136)	94.8 (2,407) x 38.0 (965) x 98.1 (2,491)		

\* All measurements are approximate and for estimation purposes only. Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.

Generac Power Systems, Inc. | P.O. Box 8 | Waukesha, WI 53189

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Part No. 10000024842

Rev. B 08/27/18



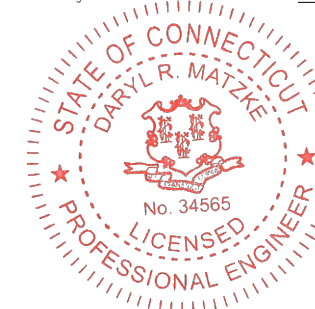
PREPARED FOR:



CONSULTANT:  
**GENERAL DYNAMICS**  
 Information Technology, Inc.

GENERAL DYNAMICS  
 101 STATION DR  
 WESTWOOD, MA 02090

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Signature: [Signature] Date: 3/27/2023

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ISSUE PHASE	FINAL	DATE ISSUED 03/27/2023

PROJECT TITLE:  
**STAFFORD CHESTNUT**  
**FA ID # 10118582**

PROJECT INFORMATION:  
 157 CHESTNUT MOUNTAIN RD  
 STAFFORD SPRINGS, CT 06076

SHEET TITLE:  
**GENERAC 30KW GENERATOR**  
**SPECIFICATIONS**

SCALE: NONE

PROJECT NUMBER: 57141  
 SHEET NUMBER: E-4.2

SPEC SHEET

5 of 6

SPEC SHEET

6 of 6

**TTS Series  
Switches**  
**200 Amps  
600 VAC**

**GENERAC** | **INDUSTRIAL  
POWER**

**TAS200**

**200A Automatic Transfer Switch**

**TAS200  
TAS200**

1 of 3 2 of 3



Image used for illustration purposes only.

**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**

**Optional Features**

- **EXTENDED WARRANTY**
- **THREE-PHASE VOLTAGE CONFIGURATIONS**

**Codes and Standards**

Generac products are designed to the following standards:



UL1008,  
UL508,  
UL50,  
CSA C22.2 No. 178



NEC 700, 701 and 702



NEMA 250

**Application and Engineering Data**

Cabinet Specifications	
Dimensions	24"W x 12"D x 48"H
Weight	210 lbs.
Construction	Single Chamber with Main Door
	Steel
	UL Type / NEMA 3R Rated
	Powder Coat Finish for Corrosion Resistance
	C-UL-US Listed - Automatic Transfer Switch
Mounting Options	Stainless Steel Hardware
	3-Point Latching System with Pad-Lockable Handles
Installed	Wall
	H-frame
Installed	Pre-wired alarm terminal strip

Electrical Specifications	
Voltage/Phase/Amps	120/240 Single-Phase, 200A 120/208 3-Phase, 200A 120/240 3-Phase, 200A
Breaker	Eaton 200 amp Utility Breaker
	Eaton 200 amp Generator Breaker
Maximum RMS Symmetrical Fault Current - Amps	25k AIC Rated
Protective Device Continuous Rating (Max) Amp	200
Input to Generator	350MCM - #6 AWG
Output to Site	350MCM - #6 AWG
Generator Annunciator Connector	Deutsch DTM04-12PA-L012
Alarm Terminal Board	Generator Run Alarm
	Generator Fail - Shutdown Alarm
	Generator Fail - Non Shutdown Alarm
	Low Fuel Alarm
	Generator Theft Alarm
	AC Utility Fail Alarm

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

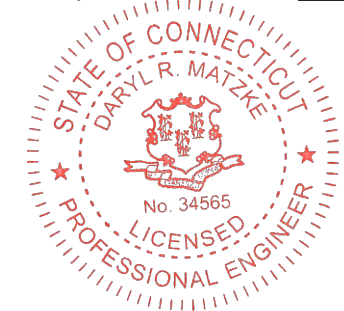


**RAMAKER**  
employee-owned  
(608) 643-4100 www.ramaker.com

PREPARED FOR:

CONSULTANT:  
**GENERAL DYNAMICS**  
Information Technology, Inc.  
GENERAL DYNAMICS  
101 STATION DR  
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STAFFORD SPRINGS, CT 06076

SHEET TITLE:  
**GENERAC ATS SPECIFICATIONS**

SCALE: NONE

PROJECT NUMBER: 57141  
SHEET NUMBER: E-5

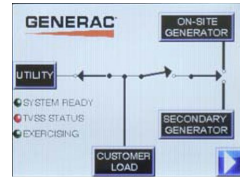


**TTS Control Systems**

**TAS200**

3 of 3

**Touch Screen Interface**



**INDICATORS AND BUTTONS**

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>System Ready indicator</li> <li>Standby Operating indicator</li> <li>Utility Available indicator</li> <li>GEN/UTIL Switch Position indicator</li> <li>TVSS status</li> </ul> | <ul style="list-style-type: none"> <li>Normal Test button</li> <li>Fast Test button</li> <li>Return to Normal button</li> <li>Reset button</li> <li>Exercising indicator</li> </ul> |
|---|---|

**DETAILS SCREEN**

<p><b>System Settings:</b></p> <ul style="list-style-type: none"> <li>System Voltage/Phases:                     <ul style="list-style-type: none"> <li>120/240V single phase (standard)</li> <li>120/208V three phase (optional)</li> <li>120/240V three phase (optional)</li> </ul> </li> <li>Utility Fail Monitor:                     <ul style="list-style-type: none"> <li>Under Voltage: 75-95% of nominal voltage</li> <li>Over Voltage: 105%-125% of nominal voltage</li> <li>Pickup (hysteresis): fixed at 5 volts</li> <li>Delay time: 0-60s</li> </ul> </li> <li>Utility Interrupt Delay: 0-60s</li> <li>Return to Utility Timer: 1-30 minutes</li> <li>Transfer:                     <ul style="list-style-type: none"> <li>In-phase, or</li> <li>Time-Delay-Neutral at 0.0-10.0s in 1 second increments</li> </ul> </li> </ul>	<p><b>Exercise Settings:</b></p> <ul style="list-style-type: none"> <li>Time of day</li> <li>Day of week</li> <li>Exercise:                     <ul style="list-style-type: none"> <li>Exercise with/without load</li> <li>Exercise once every 1, 2, or 4 weeks.</li> <li>Exercise time-of-day</li> <li>Exercise day of week</li> <li>Exercise duration: 15-30 minutes</li> </ul> </li> </ul>
	<p><b>Screen Settings:</b></p> <ul style="list-style-type: none"> <li>Brightness &amp; Contrast button</li> <li>Screen Calibration button</li> <li>Startup/Clean screen</li> </ul>
	<p><b>Diagnostics:</b></p> <ul style="list-style-type: none"> <li>Digital I/O bits status</li> <li>Voltage A/D readings</li> </ul>
<p><b>Engine Settings:</b></p> <ul style="list-style-type: none"> <li>Engine Warm-up timer: 0-20 minutes</li> <li>Generator Load Accept:                     <ul style="list-style-type: none"> <li>Time-Delay-Neutral at 0.0-10.0s in 1 second increments</li> <li>Voltage: 85-95% of nominal</li> <li>Frequency: 85-95% of nominal</li> </ul> </li> <li>Engine Minimum Run Timer: 5-30 minutes</li> <li>Engine Cooldown Timer: 0-20 minutes</li> </ul>	<p><b>Mimic Diagram:</b></p> <ul style="list-style-type: none"> <li>System Ready</li> <li>Transfer switch position</li> <li>Utility available</li> <li>Standby available</li> <li>Maintenance/Auto switch position</li> <li>Generator source TS position</li> <li>TVSS status</li> </ul>

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**STAFFORD CHESTNUT  
 FA ID # 10118582**

PROJECT INFORMATION:  
 157 CHESTNUT MOUNTAIN RD  
 STAFFORD SPRINGS, CT 06076

SHEET TITLE:  
**GENERAC ATS SPECIFICATIONS**

SCALE: NONE

PROJECT NUMBER	57141
SHEET NUMBER	E-5.1

# ATTACHMENT 2

SITE NAME: TROIANO REALTY

SITE ID: CT13617-A

Transaction: Light Tower

**ZONING/PERMITTING COMPLETION FORM**

Address: 157 Chestnut Mtn. Rd., <sup>Stafford</sup> ~~Eastford~~, CT 06076

Jurisdiction: Comm. S. City Council, Town of Stafford Zoning District: \_\_\_\_\_

Zoning Approval Type: CSC / Special Use Permit Case #: \_\_\_\_\_

Approval Date: 9/11/01 Approved Height: 180' Tower Build Date: \_\_\_\_\_

If tower is destroyed or drop/swap required, tower can likely be rebuilt?  YES  NO

**Conditions of Approval:**

	Yes	No	N/A
Removal Bond	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Site Plan Submittal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fall Zone	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Periodic Inspections	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Periodic Reporting	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Approval Renewal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Additional Conditions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Utilities be placed underground

**JURISDICTION POC/DEPT.**

Planning/Zoning: M. J. (Town of Stafford)

Phone: 860-684-1775 Fax: \_\_\_\_\_

Bldg./Code Enforcement: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Submitted by: Ratches Estes Date: 9/23/08  
Zoning Compliance

**TO BE COMPLETED BY CORPORATE**

	Yes	No	N/A	
Zoning Approval Attached (required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Ordinance Attached (required)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Building Permit Attached (required) <u>Town of Stafford</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Date Recd
<u>8691</u>				<u>12/11/2001</u>
Certificate of Occupancy or Compliance (CO) attached (required)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>3/11/2002</u>

Zoning Manager Approval: D E Borchardt Date 9/23/2008  
Diane E. Borchardt, AICP



**Town of Stafford**  
**The Stafford Planning & Zoning Commission**

Warren Memorial Town Hall  
1 Main Street • Stafford Springs, CT 06076

(860) 684-7444  
FAX 684-9845

**TOWN OF STAFFORD**  
**LEGAL NOTICE**

Notice is hereby given that the Stafford Planning & Zoning Commission at a regularly scheduled meeting held on September 11, 2001, at 7:00 p.m. in the Veterans Meeting Room, Warren Memorial Town Hall, Stafford, CT rendered the following:

1. Approved, with condition, Special Use Permit Application of Tower Ventures, Inc. to construct 180 foot telecommunication tower within a 75' x 75' fenced compound for ground equipment. Location: 157 Chestnut Hill, Assessor's Map #34, Lot #32, AAA Zone.

John Mocko  
Chairman

Journal Inquirer  
September 14, 2001



*Town of Stafford*  
*The Stafford Planning & Zoning Commission*

Warren Memorial Town Hall  
1 Main Street • Stafford Springs, CT 06076

Telephone: (860) 684-1775  
Fax: (860) 684-1768

**AGENDA**  
**STAFFORD PLANNING & ZONING COMMISSION**

Meeting Date: September 11, 2001

7:00 p.m.

Veterans Meeting Room  
Warren Memorial Town Hall  
Stafford Springs, CT

**COPY**

**PUBLIC HEARING**

1. Special Use Permit Application of Tower Ventures, Inc., to construct 180 foot telecommunication tower within a 75' x 75' fenced compound for ground equipment. Location: 157 Chestnut Hill, Assessor's Map #34, Lot #32, AAA Zone.

---

**AGENDA**

1. Review of minutes of August 28, 2001 regular meeting.
2. Discussion - Special Use Permit application of Tower Ventures, for telecommunication tower. Location: 157 Chestnut Hill, Assessors' Map #34, Lot #32, AAA Zone.
3. Adjournment.

Wendell Avery  
Zoning Enforcement Officer

Agenda Closed: 9/7/01

COPY

Town of Stafford  
Planning & Zoning Commission  
Regular Meeting  
September 11, 2001  
7:00 p.m. - Veterans Meeting Room

Members Present: Jack Mocko, Chairman  
Roger Pelizari  
Nancy Ravetto  
Peter Rossi

Also Present: Wendell Avery, Zoning Enforcement Officer

Meeting Agenda:

1. Review minutes of August 28, 2001 regular meeting.
2. Discussion - Special Use Permit application for Tower Ventures, Inc. to construct 180-foot telecommunication tower. Location 157 Chestnut Hill, Assessor's Map #34, Lot #32, AAA Zone.
3. Adjournment.

A Public hearing was held prior to the regular meeting re Item #3, Tower Ventures, Inc., tape-recorded and filed in the office of the Town Clerk.

Chairman Mocko called the regular meeting to order at 8:20 p.m. following the public hearing.

1. **Review minutes of August 28, 2001 regular meeting.**  
Peter Rossi made a motion to accept the minutes of the August 28, 2001 meeting as presented. Second by Nancy Ravetto. Motion for approval passed unanimously.
2. **Discussion - Special Use Permit application for Tower Ventures, Inc. to construct 180-foot telecommunication tower. Location 157 Chestnut Hill.**  
Attorney Chris Smith of Pullman & Comley and David Vivian of Tower Ventures, Inc. made their presentation for the proposed cell tower to be located at 157 Chestnut Hill Road. The Board was in agreement that the Town regulations for cell towers were adhered to and took the following action on the Special Use Permit for Tower Ventures, Inc. Nancy Ravetto made a motion to approve the Special Use Permit Application of Tower Ventures Inc., to construct a 180 foot telecommunication tower within a 75' x 75' fenced compound for ground equipment with condition that utilities be placed underground. Location: 157 Chestnut Hill, Assessor's Map #34, Lot #32, AAA Zone. Second by Roger Pelizari. Motion for approval passed 3-0.
3. **Adjournment.**  
There being no further business to come before the Board, Roger Pelizari made a motion for adjournment, seconded by Nancy Ravetto. Regular meeting adjourned at 8:30 p.m.

Respectfully submitted,

  
 Mary Jane LaMorte  
 Recording Secretary

# Exhibit B

## **Property Card**



# 157 CHESTNUT HILL

**Location** 157 CHESTNUT HILL

**Mblu** 34 / 32 / 1

**Acct#** 00167400

**Owner** TROIANO REALTY CORP

**Assessment** \$313,530

**Appraisal** \$447,900

**PID** 1896

**Building Count** 1

## Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2020	\$46,400	\$401,500	\$447,900

Assessment			
Valuation Year	Improvements	Land	Total
2020	\$32,480	\$281,050	\$313,530

## Owner of Record

**Owner** TROIANO REALTY CORP  
**Co-Owner** %ANTONIO TROIANO  
**Address** 777 ENFIELD ST  
ENFIELD, CT 06082

**Sale Price** \$0  
**Certificate** 1  
**Book & Page** 0110/0503  
**Sale Date** 01/27/1961  
**Instrument** 00

## Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
TROIANO REALTY CORP	\$0	1	0110/0503	00	01/27/1961

## Building Information

### Building 1 : Section 1

**Year Built:** 1985  
**Living Area:** 1,008  
**Replacement Cost:** \$51,862  
**Building Percent Good:** 77  
**Replacement Cost**  
**Less Depreciation:** \$39,900

**Building Attributes**

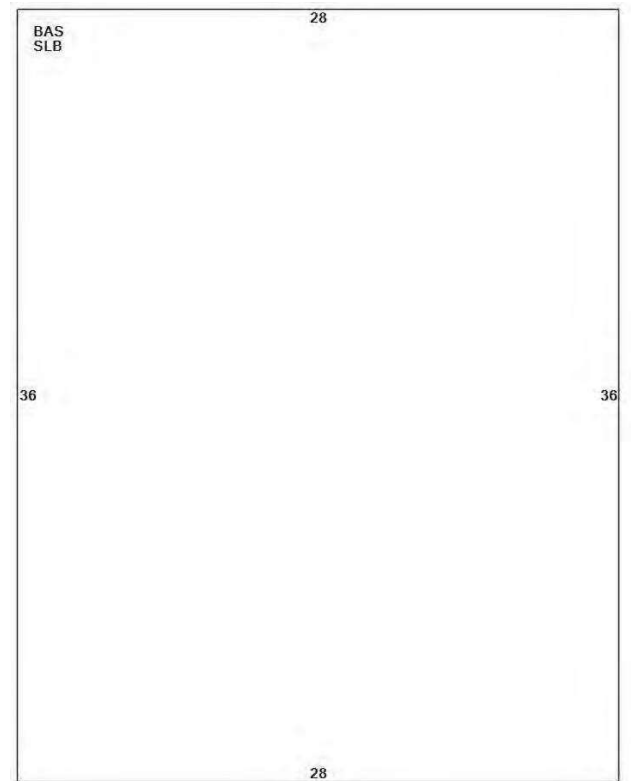
Field	Description
STYLE	Warehouse
MODEL	Ind/Comm
Grade	C
Stories:	1
Occupancy	1.00
Exterior Wall 1	Concr/Cinder
Exterior Wall 2	
Roof Structure	Gable
Roof Cover	Asph/F GlS/Cmp
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Electric
Heating Type	Forced Hot Air
AC Type	Central
Struct Class	
Bldg Use	Industrial
Total Bedrooms	
Total Baths	
1st Floor Use:	
Heat/AC	Heat/AC Pkg.
Frame Type	Masonry
Baths/Plumbing	Average
Ceiling/Wall	None
Rooms/Prtns	Average
Wall Height	12.00
Num Fixtures	

### Building Photo



(<http://images.vgsi.com/photos2/StaffordCTPhotos/\00\01\13\65.jpg>)

### Building Layout



(ParcelSketch.ashx?pid=1896&bid=1896)

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	1,008	1,008
SLB	Slab	1,008	0
		2,016	1,008

### Extra Features

Extra Features

Legend

No Data for Extra Features

## Land

### Land Use

**Use Code** 301  
**Description** Industrial  
**Zone** AAA  
**Neighborhood** 502  
**Alt Land Appr Category** No

### Land Line Valuation

**Size (Acres)** 50.00  
**Frontage**  
**Depth**  
**Assessed Value** \$281,050  
**Appraised Value** \$401,500

## Outbuildings

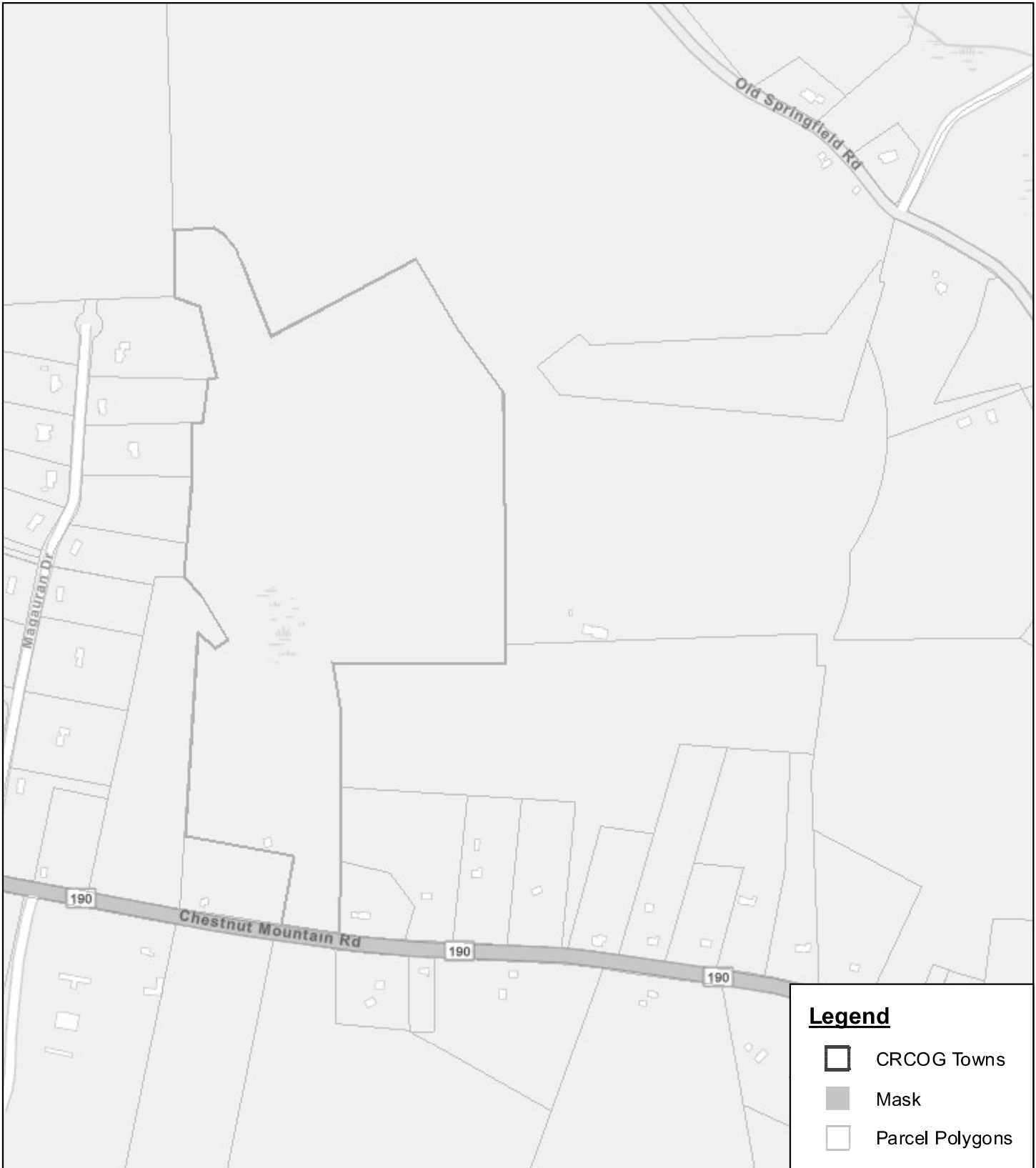
Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
FN3	FENCE-6' CHAIN			300.00 L.F.	\$1,400	1
FN4	FENCE-8' CHAIN			360.00 L.F.	\$2,000	1
SHD1	Shed	MS	Masonry	160.00 S.F.	\$1,300	1
SHD1	Shed	MS	Masonry	220.00 S.F.	\$1,800	1

## Valuation History




Appraisal			
Valuation Year	Improvements	Land	Total
2019	\$47,400	\$426,000	\$473,400
2018	\$47,400	\$426,000	\$473,400
2017	\$47,400	\$426,000	\$473,400

Assessment			
Valuation Year	Improvements	Land	Total
2019	\$33,180	\$298,200	\$331,380
2018	\$33,180	\$298,200	\$331,380
2017	\$33,180	\$298,200	\$331,380

# 157 CHESTNUT HILL ROAD



## Legend

-  CRCOG Towns
-  Mask
-  Parcel Polygons



**CRCOG** **CAPITOL REGION**  
**COUNCIL OF GOVERNMENTS**  
*Working together for a better region.*

CRCOG makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Scale  
1:9,028  
Created: 5/26/2022

# ATTACHMENT 3

ORIGIN ID:GAA (301) 266-0258  
CATHERINE CONKLIN  
GENERAL DYNAMICS  
4603 KEMPER STREET  
ROCKVILLE, MD 20853  
UNITED STATES US

SHIP DATE: 22MAR23  
ACT WGT: 2.00 LB  
CAD: 105486753/NET4580

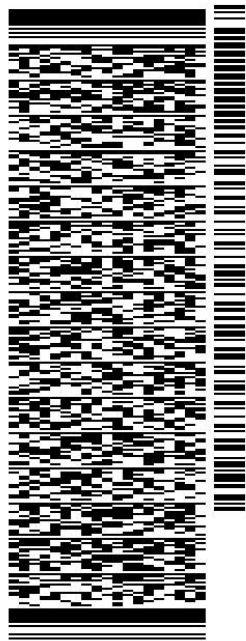
BILL SENDER

TO TROIANO REALTY CORPORATION

777 ENFIELD STREET

ENFIELD CT 06082

REF: (860) 745-0321  
INV/ PO: DEPT:



J231023011101uv

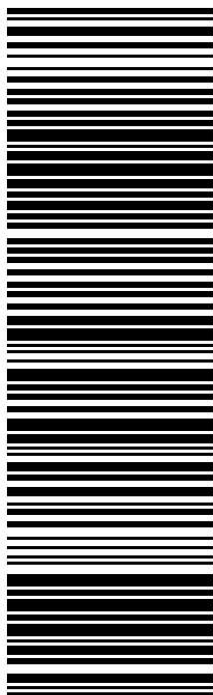
581J79982FE2D

TRK# 7716 2511 9390  
0201

THU - 23 MAR 10:30A  
PRIORITY OVERNIGHT

EB QCWA

06082  
CT-US BDL



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**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](http://fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



March 31, 2023

Dear Customer,

The following is the proof-of-delivery for tracking number: 771625119390

---

**Delivery Information:**

---

<b>Status:</b>	Delivered	<b>Delivered To:</b>	Receptionist/Front Desk
<b>Signed for by:</b>	T.OI	<b>Delivery Location:</b>	777 ENFIELD ST
<b>Service type:</b>	FedEx Priority Overnight		
<b>Special Handling:</b>	Deliver Weekday		ENFIELD, CT, 06082
		<b>Delivery date:</b>	Mar 31, 2023 09:20

---

**Shipping Information:**

---

<b>Tracking number:</b>	771625119390	<b>Ship Date:</b>	Mar 30, 2023
		<b>Weight:</b>	1.0 LB/0.45 KG

**Recipient:**  
Troiano Realty Corporation,  
777 Enfield Street  
ENFIELD, CT, US, 06082

**Shipper:**  
Catherine Conklin, General Dynamics  
4603 Kemper Street  
ROCKVILLE, MD, US, 20853

ORIGIN ID:GAA (301) 266-0258  
CATHERINE CONKLIN  
GENERAL DYNAMICS  
4603 KEMPER STREET  
ROCKVILLE, MD 20853  
UNITED STATES US

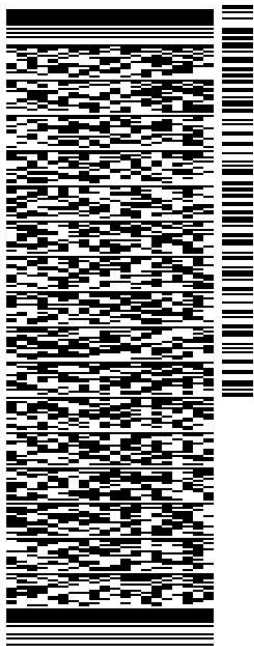
SHIP DATE: 22MAR23  
ACTWGT: 2.00 LB  
CAD: 105486753/INET4580

BILL SENDER

TO DAVID PERKINS, ZEO  
TOWN OF STAFFORD  
1 MAIN STREET

STAFFORD SPRINGS CT 06076

REF: (860) 684-1768  
INV/ PO: DEPT:

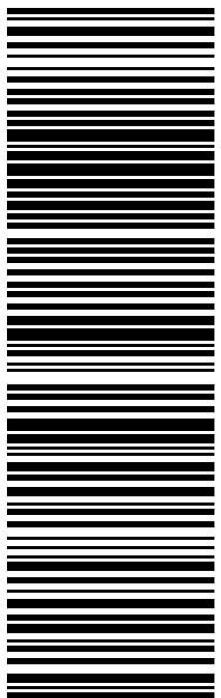


TRK# 0201 7716 2511 1517

THU - 23 MAR 10:30A  
PRIORITY OVERNIGHT

EB QCWA

06076  
CT-US BDL



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April 03, 2023

Dear Customer,

The following is the proof-of-delivery for tracking number: 771625111517

---

**Delivery Information:**

---

<b>Status:</b>	Delivered	<b>Delivered To:</b>	Receptionist/Front Desk
<b>Signed for by:</b>	D.MOULTON	<b>Delivery Location:</b>	
<b>Service type:</b>	FedEx Priority Overnight		
<b>Special Handling:</b>	Deliver Weekday		STAFFORD SPRINGS, CT,
		<b>Delivery date:</b>	Apr 3, 2023 09:50

---

**Shipping Information:**

---

<b>Tracking number:</b>	771625111517	<b>Ship Date:</b>	Mar 30, 2023
		<b>Weight:</b>	1.0 LB/0.45 KG
<b>Recipient:</b>		<b>Shipper:</b>	
STAFFORD SPRINGS, CT, US,		ROCKVILLE, MD, US,	

Signature image is available. In order to view image and detailed information, the shipper or payor account number of the shipment must be provided.

ORIGIN ID:GAMA (301) 266-0258  
CATHERINE CONKLIN  
GENERAL DYNAMICS  
4603 KEMPER STREET  
ROCKVILLE, MD 20853  
UNITED STATES US

SHIP DATE: 22MAR23  
ACTWGT: 2.00 LB  
CAD: 105486753/INET4580

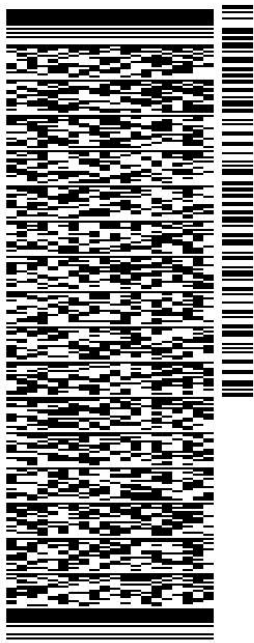
BILL SENDER

TO **SAL P. TITUS, FIRST SELECTMAN**  
**TOWN OF STAFFORD**  
**1 MAIN STREET**

**STAFFORD SPRINGS CT 06076**

REF: (860) 684-1777  
INV/ PO:

DEPT:



J231023011101uv

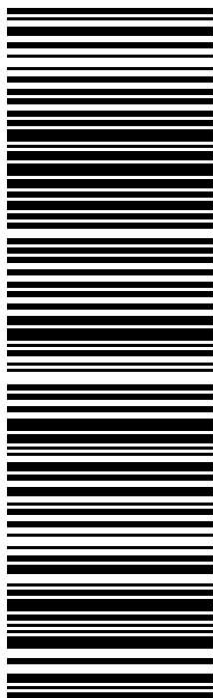
581J79982FE2D

TRK# 7716 2510 5290  
0201

THU - 23 MAR 10:30A  
PRIORITY OVERNIGHT

**EB QCWA**

06076  
CT-US BDL



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April 03, 2023

Dear Customer,

The following is the proof-of-delivery for tracking number: 771625105290

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**Delivery Information:**

---

<b>Status:</b>	Delivered	<b>Delivered To:</b>	Receptionist/Front Desk
<b>Signed for by:</b>	D.MOULTON	<b>Delivery Location:</b>	
<b>Service type:</b>	FedEx Priority Overnight		
<b>Special Handling:</b>	Deliver Weekday		STAFFORD SPRINGS, CT,
		<b>Delivery date:</b>	Apr 3, 2023 09:50

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**Shipping Information:**

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<b>Tracking number:</b>	771625105290	<b>Ship Date:</b>	Mar 30, 2023
		<b>Weight:</b>	2.0 LB/0.91 KG
<b>Recipient:</b>		<b>Shipper:</b>	
STAFFORD SPRINGS, CT, US,		ROCKVILLE, MD, US,	

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