# **GDIT**

January 27, 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 160 Witch Meadow Road, Salem, CT 06420 Lat.: 41.50280000; Long.: -072.29710000

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 160 Witch Meadow Road in the Town of Salem, Connecticut. The underlying property is owned by Ronald R. Renz, c/o Renz Construction Co. and the tower structure is owned by the SBA Communications. 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 the Ed Chmielewski, First Selectman, Nicole Haggerty, Town Planner, Property and Tower Owner 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

#### **GENERAL DYNAMICS**

Information Technology

#### CC:

Ed Chmielewski, First Selectman 270 Hartford Road Salem, CT 06420 860-859-3873

Nicole Haggerty, Town Planner 270 Hartford Road Salem, CT 06420 860-859-3873

Ronald R. Renz, Property Owner c/o Renz Construction Company 44 Mustang Drive, Monroe, CT 06468 262-490-6368

SBA Properties Inc, Tower Owner

# **ATTACHMENT 1**



# **SITE NAME: SALEM NORTH** FA LOCATION CODE: 10035287 SBA I.D. #: CT01916

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

# 160 WITCH MEADOW ROAD **SALEM, CT 06420**

# 1 VICINITY MAP SITE LOCATION

#### 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.

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.

#### 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 N THESE PLANS ARE TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- INTERNATIONAL BUILDING CODE 2021
- . NATIONAL ELECTRIC CODE 2020
- 3. AMERICAN CONCRETE INSTITUTE (ACI) 3 I 8. BUILDING CODE REQUIREMENTS FOR STRUCTURAL
- . 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
- 5. TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR

#### 1 AERIAL VIEW OF SITE



## PROJECT INFORMATION

#### PROJECT MANAGER:

MATTHEW HIGGINS GENERAL DYNAMICS WIRELESS SERVICES

WESTWOOD, MA 02090 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 tbeatty@ramaker.com

APPLICANT INFORMATION: 150 STANDARD DR ANOVER, MD 21076

SITE NAME: SALEM NORTH FA NUMBER: 10035287

PROPERTY OWNER: SBA TOWERS 805 | CONGRESS AVE BOCA RATON, FL 33487

I GO WITCH MEADOW ROAD SALEM, CT 06420

COUNTY: NEW LONDON

41.50280 N° 72.29710 W° LONG.:

GROUND ELEVATION: 345' 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

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#### SIGNATURE BLOCK

AT¢T MGR. DATE

DATE GENERAL DYNAMICS CONSTRUCTION MGR.

SITE ACQUISITION DATE

# RAMAKER (608) 643-4100 www.ramaker.com

PREPARED FOR:



CONSULTANT:

#### **GENERAL DYNAMICS**

Information Technology, Inc.

GENERAL DYNAMICS 101 STATION DR WESTWOOD, MA 02090

hereby certify that this plan, specification, or report was prepare, y me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of <u>Connecticut</u>.



		1/24/2023
/	Signature:	Date:
	_	

A | 12/01/22 REVISED PCDs MARK DATE DESCRIPTION DATE 01/24/2023

# SALEM NORTH FA ID # 10035287

60 WITCH MEADOW ROAD SALEM, CT 06420

TITLE SHEET

SCALE: NONE

57132

T-1

NOTES TO SUBCONTRACTOR:

THE GENERAL SUBCONTRACTOR MUST VERIFY ALL DIMENSIONS. CONDITIONS AND FLEVATIONS 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.
- 3. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR HE 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
- . 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
- IO. SUBCONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION.
- . 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.
- 2 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
- 3. 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.
- 4. 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.
- 6. 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
- 7. 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:

- 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

- I. 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:
  - ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE) ASTIM (AMERICAN SOCIETY FOR TESTING MATERIALS)
  - ETL (ELECTRICAL TESTING LABORATORY)
  - ICEA (INSULATED CABLE ENGINEERS ASSOCIATION)
  - IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS)
  - MBFU (NATIONAL BOARD OF FIRE UNDERWRITERS) NESC (NATIONAL ELECTRICAL SAFETY CODE)
  - NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)
  - NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
  - UL (UNDERWRITER'S LABORATORY)
- IO. 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.
- II. 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
- I 2. ALL FLOORS WHERE PENETRATIONS ARE REQUIRED IN BUILDING ARE TO BE CORE DRILLED AND THEN FIREPROOFED.

- 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 352.46. 300.4 F, (3)
- CONDUIT BENDS SHALL BE MADE IN ACCORDANCE WITH NEC TABLE 346-10. NO RIGHT ANGLE DEVICE OTHER THAN STANDARD CONDUIT ELBOWS WITH 12" 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
- 10. INSTALL PULL STRING IN ALL CONDUIT.
- II. 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

- I. EQUIPMENT/PARTS CONNECTED TO EXISTING PANELS, DUCTS, ETC. SHALL MATCH THE CHARACTERISTICS (A/C, V, A) OF THAT EQUIPMENT.
- 2. ALL ELECTRICAL EQUIPMENT OUTSIDE SHALL BE NEMA OR 3R RATED

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

- 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.
- 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 ULLISTING FOR THAT EQUIPMENT IS NOT VOIDED



PREPARED FOR:



#### CONSULTANT:

#### **GENERAL DYNAMICS**

Information Technology, Inc.

**GENERAL DYNAMICS** 101 STATION DR WESTWOOD, MA 02090

me or under my direct supervision and that I am a duly Licensed onal Engineer under the laws of the State of <u>Connecticut</u>.



A 12/01/22 REVISED PCDs

MARK DATE DESCRIPTION

# SALEM NORTH FA ID # 10035287

DATE 01/24/2023

60 WITCH MEADOW ROAD 5ALEM, CT 06420

GENERAL NOTES

SCALE: NONE

57132 N- I

#### SCOPE OF WORK DETAILS

#### GENERAL:

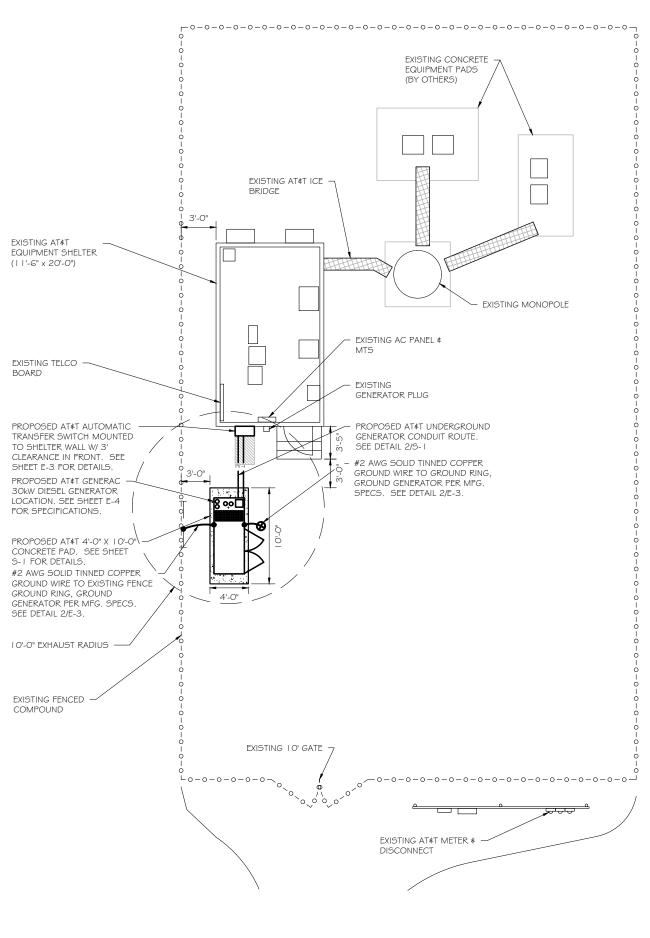
- NEW GENERAC DIESEL GENERATOR PROVIDED BY GENERAL DYNAMICS \$ INSTALLED BY GENERAL CONTRACTOR, SEE E-4.
- NEW 4'-0" X 10'-0" CONCRETE PAD PROVIDED \$ INSTALLED BY GENERAL CONTRACTOR (AS REQUIRED) SEE S-I
- NEW GENERAC AUTOMATIC TRANSFER SWITCH PROVIDED BY
  GENERAL DYNAMICS & INSTALLED BY CONTRACTOR (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

- INSTALL PULL STRING IN EACH CONDUIT

  (I) NEW 2" AND (I) NEW I" ELECTRICAL CONDUITS WITH CONDUCTORS TO RUN FROM NEW GENERATOR TO NEW ATS. CONDUIT PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. SEE E-I, 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.







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 prepare by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of <u>Connecticut</u>.



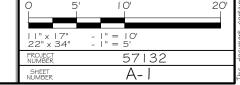
O 01/24/23 FINAL CDs A 12/01/22 REVISED PCDs MARK DATE DESCRIPTION DATE 01/24/2023

# SALEM NORTH FA ID # 10035287

60 WITCH MEADOW ROAD SALEM, CT 06420

SHEET TITLE:

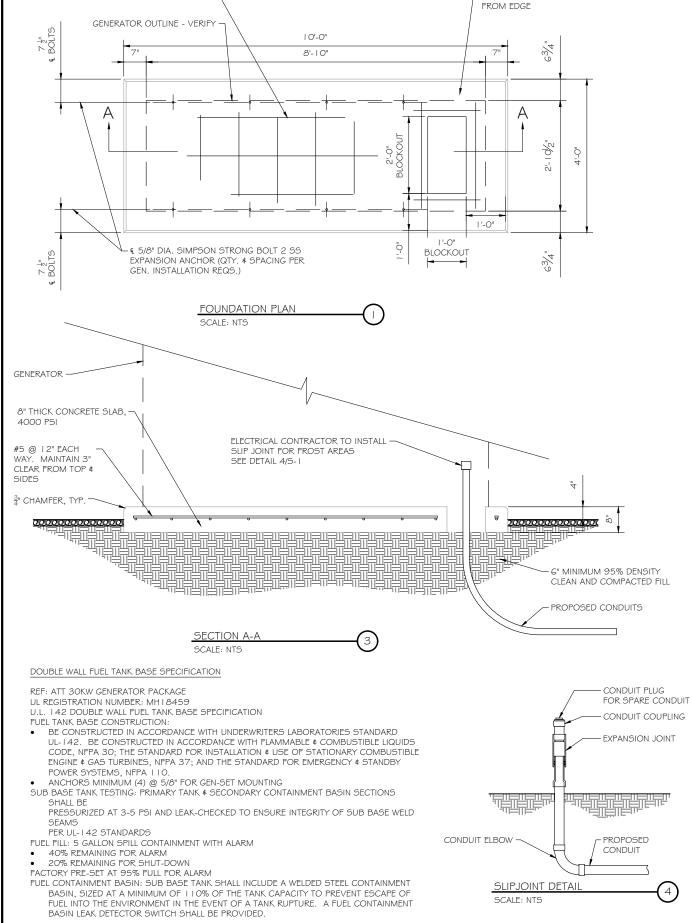
SITE PLAN



SITE PLAN & EQUIPMENT LAYOUT

(0)

#5 @ 12" EACH WAY



#5 MAINTAIN 3" CLEAR

NOTE: VERIFY WIRE AND CONDUIT QUANTITY & SIZES WITH GENERATOR MAKE \$ MODEL # PRIOR TO INSTALLATION. VERIFY ELECTRICAL RESTORE SURFACE TO MATCH REQUIREMENTS WITH LOCAL UTILITY PROVIDER. ORIGINAL CONDITION UNDISTURBED SOIL COMPACTED BACKFILL (SUITABLE ON SITE MATERIAL) 6" WARNING TAPE ELECTRICAL CONDUIT(S) WHERE APPLICABLE \* 6" TYF

\* SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS

I. PROVIDE PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW. 2. PROVIDE RGS CONDUIT AND ELBOWS AT STUB UP LOCATIONS (I.E. SERVICE POLE, BTS EQUIPMENT, ETC.)

3. INSTALL UTILITY PULLBOXES PER NEC.

UTILITY CONDUIT TRENCH SCALE: NTS

#### STRUCTURAL GENERAL NOTES

- I.I DESIGN & CONSTRUCTION OF ALL WORK SHALL CONFORM TO LOCAL BUILDING CODES, ACI 318-11. IN CASE OF CONFLICT BETWEEN THE CODES, STANDARDS, REGULATIONS, SPECIFICATIONS, GENERAL NOTES AND/OR MANUFACTURER'S REQUIREMENTS USE THE MOST STRINGENT PROVISIONS.
- I.2 IT IS THE EXPRESS INTENT OF PARTIES INVOLVED IN THIS PROJECT THAT THE CONTRACTOR OR SUBCONTRACTOR OR INDEPENDENT CONTRACTOR OR THE RESPECTIVE EMPLOYEES SHALL EXCULPATE THE ARCHITECT, THE ENGINEER, TECH CONSTRUCTION MANAGER, THE OWNER, \$ THEIR AGENTS FROM ANY LIABILITY WHATSOEVER \$ HOLD THEM HARMLESS AGAINST LOSS, DAMAGES, LIABILITY OR ANY EXPENSE ARISING IN ANY MATTER FROM THE WRONGFUL OR NEGLIGENT ACT, OR FAILURE TO CARRY METHODS, TECHNIQUES OR PROCEDURES OR FAILURE TO CONFORM TO THE STATE SCAFFOLDING ACT IN CONNECTIONS WITH THE WORK.
- 1.3 DO NOT SCALE DRAWINGS
- 1.4 VERIPY ALL EQUIPMENT MOUNTING DIMENSIONS PER MANUFACTURER DRAWINGS 1.5 DESIGN LOADS ARE (GENERAC):

LIVE LOAD

EQUIPMENT SIZE : 889.1" H, 106" W, 38" D

WEIGHT WITH WOODEN SHIPPING SKID ENCLOSED GENERATOR

: 3974 LBS 2.0 FOR DESIGN \$ ANALYSIS OF THE FOUNDATION, THE MINIMUM NET SOIL BEARING CAPACITY SHALL BE ASSUMED TO BE 2000 PSF 3.0 CONCRETE

3.1 MEET OR EXCEED THE FOLLOWING CODES \$ STANDARDS:

: ACI3 | 8- | | DESIGN CONSTRUCTION : ACI301

CRSI MANUAL OF STANDARD PRACTICE DETAILING REINF. STEEL ASTM A 615 GRADE 60, DEFORMED MIXING ASTM C 94. READY MIX CONCRETE

AIR ENTRAINMENT : ACI 3 | 8 AND ASTM C-260 AGGREGATE : ASTM C 33 AND C 330 (FOR LIGHT WEIGHT)

- 3.2 CONCRETE STRENGTH AT 28 DAYS SHALL BE 4000 PSI MINIMUM 3.3 DO NOT FIELD BEND OR WELD TO GRADE 60 REINFORCED STEEL
- 3.4 PROVIDE AIR ENTRAINED CONCRETE WITH AIR CONTENT OF 5 TO 7% FOR ALL CONCRETE EXPOSED TO EARTH OR WEATHER.
- 3.5 MAXIMUM AGGREGATE SIZE: 3/4"
- 3.6 DO NOT USE IN ADMIXTURE, WATER OR OTHER CONSTITUENTS OF CONCRETE WHICH HAS CALCIUM CHLORIDE.
- 3.7 MINIMUM COVER FOR REINFORCING STEEL SHALL BE AS SHOWN ON PLAN.
- 4 O FOUNDATION & FXCAVATION NOTES
- 4.1 SLAB SHALL BE CONSTRUCTED UPON UNDISTURBED. NATURAL SUBGRADE OR COMPACTED GRANULAR FILL WITH AN ASSUMED MINIMUM NET ALLOWABLE BEARING CAPACITY OF 1800 PSF.
- 4.2 ALL ORGANIC AND/OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FRO FOUNDATION \$ SLAB SUBGRADE \$ BACKFILL AREAS \$ THEN BACKFILLED WITH ACCEPTABLE GRANULAR FILL COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT (ASTM D1557)
- 4.3 THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST, OR ICE FROM PENETRATING ANY FOOTING OR STRUCTURAL SUBGRADE BEFORE & AFTER PLACING OF CONCRETE, AND UNTIL SUCH CONCRETE HAS FULLY CURED.



PREPARED FOR:



CONSULTANT:

#### GENERAL DYNAMICS

Information Technology, Inc.

GENERAL DYNAMICS 101 STATION DR WESTWOOD, MA 02090

v me or under my direct supervision and that I am a duly Licensed



A | 12/01/22 REVISED PCDs MARK DATE DESCRIPTION

DATE 01/24/2023

# SALEM NORTH FA ID # 10035287

60 WITCH MEADOW ROAD SALEM, CT 06420

FOUNDATION DETAILS

SCALE: NONE

57132 5-1

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#### DIAGRAM CIRCUIT SCHEDULE

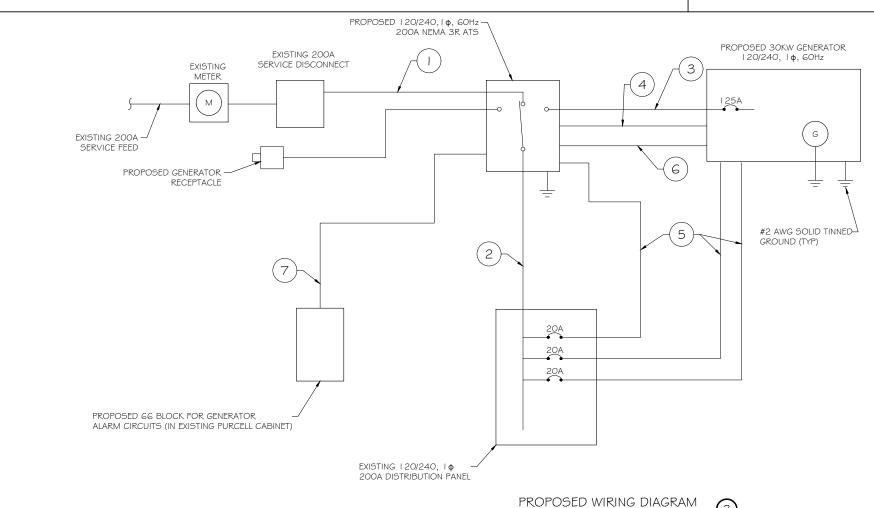
NO.	FROM	TO	WIRES	GROUND	CONDUIT SIZE	FUNCTION
	NORMAL POWER SOURCE	AUTOMATIC TRANSFER SWITCH	(3) 3/0	(1) #4	2"	NORMAL POWER FEEDER TO ATS (CUT BACK EXISTING)
2	AUTOMATIC TRANSFER SWITCH	LOAD CENTER	(3) 3/0	(1) #4	2"	POWER FEEDER FROM ATS TO PANEL
3	GENERATOR	AUTOMATIC TRANSFER SWITCH	(3) #1	(1) #6	1-1/2"	EMERGENCY POWER FEEDER TO ATS
4	AUTOMATIC TRANSFER SWITCH	GENERATOR	(2) #10	(1) #10	I "	START CIRCUIT
5	LOAD CENTER (DISTRIBUTION CENTER)	GENERATOR, ATS	(2) #12 (2) #12 (2) #12	(1) #12 (1) #12 (1) #12	"   "   "	CIRCUIT FOR GENERATOR BLOCK HEATER \$ BATTERY HEATER CIRCUIT FOR BATTERY CHARGER CIRCUIT FOR AT5
6	GENERATOR	AUTOMATIC TRANSFER SWITCH	I 2-PAIR 24 AWG OR 2EA G-PAIR CAT5	N/A	1"	ALARM CABLES (I) I 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	I 2-PAIR 24 AWG OR 2EA G-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

#### ALARM WIRE IDENTIFICATION CHART

WIRE	ALARM	
BROWN BROWN / WHITE	GENERATOR RUNNING	
GREEN GREEN / WHITE	CRITICAL FAULT	
BLUE BLUE / WHITE	MINOR FAULT	
ORANGE ORANGE / WHITE	LOW FUEL	
BROWN * BROWN / WHITE *	FUEL LEAK	
*CAT5 CABLE ONLY, FROM 2ND CAT5 CABLE		

CIRCUIT DETAIL
SCALE: NTS

ALARM WIRING IDENTIFICATION CHART 2



SCALE: NTS



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0 01/24/23 FINAL CDs
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MARK DATE DESCRIPTION

ISSUE FINAL DATE
1SSUED 01/24/2023

PROJECT TITLE

SALEM NORTH FA ID # 10035287

I 60 WITCH MEADOW ROAD SALEM, CT 06420

SHEET TITLE

WIRING DETAILS

SCALE: NONE

PROJECT 57132
SHEET E-I

AC Distribution Panel - Layout Diagram									
Breaker	Breaker			AC DISTIBUTION Par	Breaker	Breaker			
Position		On/Off	Size	Circuit Label	Position		On/Off	Size	Circuit Label
Position	Type	Un/Un	Size	Circuit Labei		Type			Circuit Labei
1	2P	ON	60	HVAC #1	2	1P	ON	20	
3					4	1P	ON	20	TELCO RECEPTACLE
5	1P	ON	20	INTERIOR LIGHT	6	1P	ON	20	RECEPTACLES LEFT
7	1P	ON	20	GFCI	8	2P	ON	60	HVAC #2
9	1P	ON	20	EXTERIOR LIGHT	10	21	ON	00	HVAC #2
11		0.55			12		211		514506011 DD 01/5114
13	2P	OFF	30		14	2P	ON	30	EMERSON PP CKT#4
15	2P	OFF	30		16	2P	ON	30	EMERSON PP CKT#5
17	28	UFF	30		18	28	UN	30	EIVIERSON PP CKT#5
19	2P	ON	30	EMERSON PP CKT#1	20	2P	ON	30	EMERSON PP CKT#6
21	21	011	50	EIVIERSON FF CRI#1	22	21	ON	30	LIVILISON FF CKT#0
23	2P	ON	30	EMERSON PP CKT#2	24	2P	OFF	30	INVERTER
25	21	011	30	EIVIENSOIVIT CRI#2	26	21	011	30	HVVERTER
27	2P	ON	30	EMERSON PP CKT#3	28	1P	ON	20	RECEPTACLES RIGHT
29	21	011	30	LIVILISON FF CKI#3	30	1P	ON	20	HVAC CONTROLLER
31	1P	ON	20		32	1P	ON	20	SMOKE DETECTOR
33	1P	ON	20		34	1P	ON	20	✓ ATS
35				SPARE	36	1P	ON	20	BLOCK HEATER
37				SPARE	38	1P	ON	20 /	BATTERY CHARGER
39				SPARE	40				SPARE

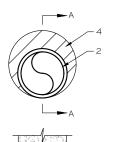
PROPOSED 20A BREAKERS FOR ATS. BLOCK HEATER -AND BATTERY CHARGER ON NEW AT&T GENERATOR

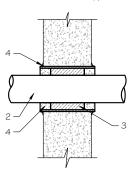
EXISTING PANEL SCHEDULE

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





- IF EXISTING CONSTRUCTION VARIES FROM THIS DETAIL, AN EQUAL 3-HR U.L. PENETRATION APPROPRIATE FOR THE EXISTING WALL TYPE SHALL BE CONSTRUCTED
- 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 = O 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.
- 2. 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 O". (POINT CONTACT) TO MAXIMUM 1-3/8". THE FOLLOWING TYPES AND SIZES
  - OF METALLIC PIPES OR CONDUITS MAY BE USED: A. STEEL PIPE-NOMINAL 6" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER)
  - B. IRON PIPE-NOMINAL 6" 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) STEEL CONDUIT.
- 3. 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
- 4. 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 CPGO IS OR CPGO4 SEALANT IS

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. : CP601S, CP604, CP606, OR FS-ONE SEALANT.

\* BEARING THE UL CLASSIFICATION MARK

# OUTER WALL PENETRATION DETAIL (IF APPLICABLE)



Type VN

TAP TO VERTICAL STEEL

SURFACE OR

THE SIDE OF

HORIZONTAL PIPE

HORIZONTAL CABLE

CABLE TAP TO TOP OF GROUND



THROUGH CABLE TO TOP OF GROUND ROD GROUND ROD



Type VS CABLE TAP DOWN AT 45°TO VERTICAL STEEL SURFACE OR SIDE OF HORIZONTAL OR VERTICAL PIPE.



THROUGH VERTICAL

SURFACE OR TO THE

VERTICAL STEEL

SIDE OF EITHER HORIZONTAL OR

VERTICAL PIPE

HORIZONTAL CABLE TAP TO HORIZONTAL STEEL SURFACE OR PIPE.
CABLE OFF SURFACE.

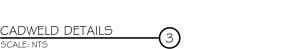


GROUND ROD



Type TA TEE OF HORIZONTAL RUN AND TAP CABLES.







PREPARED FOR:



CONSULTANT:

#### GENERAL DYNAMICS

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A 12/01/22 REVISED PCDs

MARK DATE DESCRIPTION

DATE 01/24/2023

# SALEM NORTH FA ID # 10035287

60 WITCH MEADOW ROAD SALEM, CT 06420

PANEL AND PENETRATION **DETAILS** 

SCALE: NONE

57132 SHEET E-2

CONDUIT (TYP)

(4

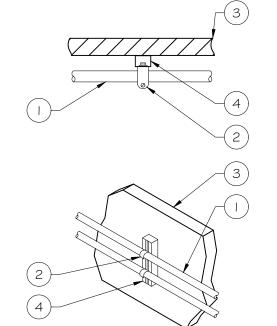
2 BUTTERFLY CLAMP AS REQUIRED

(3) EXISTING WALL/CEILING

VERTICAL "UNISTRUT" P I 000 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'-O" O.C. LENGTH OF RUN



- CADWELD - GRADE #2 AWG BCW GROUND RING GROUND ROD COPPERWELD 5/8"Ø x 8'-0" LONG (MAX)

> GROUND ROD DETAIL SCALE: NTS

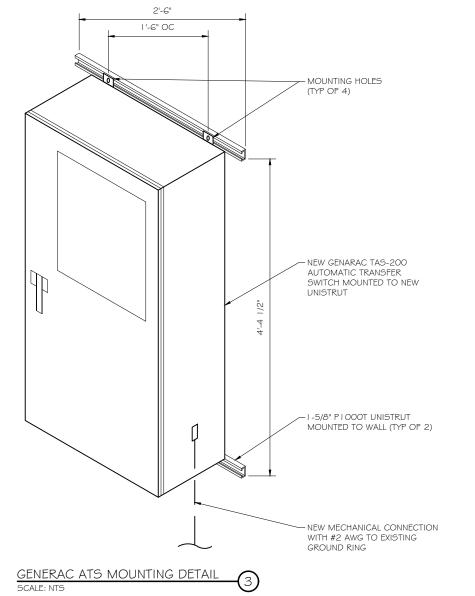
# ₽

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"

CONDUIT WALL MOUNT

SCALE: NTS

- . 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





(608) 643-4100 www.ramaker.com

PREPARED FOR:

GROUND RODS MAY BE:

THE LENGTH OF ROD

AVAILABLE

SEE RESISTIVITY REPORT FOR VERIFICATION AS

A LARGER CONDUCTOR SHALL BE REQUIRED IN AREAS HIGHLY PRONE TO LIGHTNING AND/OR 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

CORROSION OF TOWER,

(SEE ANSI/TIA-EIA-222-G)

PROVIDE (I) GROUND LEAD TO EACH SIDE OF THE GENERATOR

PREVENT GALVANIC

- COPPER CLAD STEEL - SOLID COPPER GROUND RODS SHALL HAVE A MAXIMUM SPACING TWICE



CONSULTANT:

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# SALEM NORTH FA ID # 10035287

60 WITCH MEADOW ROAD SALEM, CT 06420

ATS, CONDUIT & GROUND ROD DETAILS

SCALE: NONE

57132 SHEET E-3

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

**EPA Certified Stationary Emergency** 

Standby Power Rating 30 kW, 38 kVA, 60 Hz

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



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



Image used for illustration purposes only

#### **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

**CONTROL SYSTEM** 

GENERAC

Program Functions

Programmable Crank Limiter

• 7-Day Programmable Exerciser

RS-232/485 Communications

2-Wire Start Capability

Digital H Control Panel- Dual 4x20 Display

Special Applications Programmable Logic Controller

· All Phase Sensing Digital Voltage Regulator

Date/Time Fault History (Event Log)

· Isochronous Governor Control

· Waterproof/Sealed Connectors

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

#### **ALTERNATOR SYSTEM**

- UL2200 GENprotect<sup>™</sup>
- 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)**

- High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)

- Upward Facing Discharge Hoods
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ Textured Polyester Powder Coat Paint

#### FUEL TANKS (If Selected)

- UL 142/ULC S601
- Double Wall
- Normal and Emergency Vents
- Sloped Top
- Sloped Bottom
- Factory Pressure Tested
- Fuel Level
- Check Valve In Supply and Return Lines

- · 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<sup>®</sup> 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

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

 Rust-Proof Fasteners with Nylon Washers to Protect Finish

GENERAC | INDUSTRIAL

- Gasketed Doors
- Stamped Air-Intake Louvers
- (Radiator and Exhaust)

- Rupture Basin Alarm
- RhinoCoat™ Textured Polyester Powder Coat Paint
- Stainless Steel Hardware
- · Oil Pressure
- Engine Speed
- Frequency

#### **Alarms and Warnings**

- Coolant Temperature
- Engine Overspeed
- Alarms and Warnings Time and Date Stamped
- Alarms and Warnings

CONSULTANT: GENERAL DYNAMICS

PREPARED FOR:

Information Technology, Inc.

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GENERAL DYNAMICS 101 STATION DR WESTWOOD, MA 02090

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60 WITCH MEADOW ROAD

A | 12/01/22 REVISED PCDs

ARK DATE DESCRIPTION

SALEM NORTH FA ID # 10035287

DATE 01/24/2023

GENERAC 30KW GENERATOR **SPECIFICATIONS** 

SCALE: NONE

5ALEM, CT 06420

57132 F-4

GENERAC 30KW GENERATOR SPECIFICATIONS

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

O NFPA 110 Compliant 21-Light Remote Annunciator

O Remote E-Stop (Break Glass-Type, Surface Mount) O Remote E-Stop (Red Mushroom-Type,

Remote E-Stop (Red Mushroom-Type, Flush Mount)

CONTROL SYSTEM

O 100 dB Alarm Horn

O Ground Fault Annunciation

10A Engine Run Relay

O 120V GFCI and 240V Outlets

O 8 in (203.2 mm) Fill Extension

O 13 in (330.2 mm) Fill Extension

O 19 in (482.6 mm) Fill Extension

O 5 Gallon Spill Box Return Hose

O Fuel Level Switch and Alarm

O Fire Rated Stainless Steel Fuel Hose

Overfill Protection Valve

O 5 Gallon Spill Box

12' Vent System

Tank Risers

O Remote Communication - Modem

FUEL TANKS (Size On Last Page)

Remote Relay Assembly (8 or 16)

O il Temperature Indication and Alarm

**EPA Certified Stationary Emergency** 

#### **CONFIGURABLE OPTIONS**

#### ENGINE SYSTEM

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

#### FUEL SYSTEM

NPT Flexible Fuel Line

#### ELECTRICAL SYSTEM

- O 10A UL Listed Battery Charger
- Battery Warmer

#### ALTERNATOR SYSTEM

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

#### **GENERATOR SET**

- Extended Factory Testing
- O 8 Position Load Center

**ENGINE SYSTEM** 

Fluid Containment Pan

CONTROL SYSTEM

Pad Vibration Isolation

**ENGINEERED OPTIONS** 

Coolant Heater Isolation Ball Valves

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

#### CIRCUIT BREAKER OPTIONS

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

#### ENCLOSURE

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

#### WARRANTY (Standby Gensets Only)

- O 2 Year Extended Limited Warranty
- 5 Year Limited Warranty
- O 5 Year Extended Limited Warranty

#### O 7 Year Extended Limited Warranty O 10 Year Extended Limited Warranty

## ALTERNATOR SYSTEM

- O 3rd Breaker System
- **GENERATOR SET**
- O Special Testing

#### FUEL TANKS

- O 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**

	0.0	 
17	еп	211

Make	Perkins	
EPA Emissions Compliance	Stationary Emergency	
EPA Emissions Reference	See Emission Data Sheet	
Cylinder #	4	
Туре	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**

Gove	rnor	Electronic Isochronous
Frequ	ency Regulation (Steady State)	±0.5%

Lubrication System		
Oil Pump Type	Gear	
Oil Filter Type	Full-Flow	
Crankcase Canacity - et (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)

GENERAC INDUSTRIAL

#### 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	Н
Insulation Class - Stator	Н
Total Harmonic Distortion	<5% (3-Phase)
Telephone Interference Factor (TIF)	< 50

tandard Excitation	Brushless
earings	Single Sealed
oupling	Direct via Flexible Disc
oad Capacity - Standby	100%
rototype Short Circuit Test	Yes
oltage Regulator Type	Digital
umber of Sensed Phases	All
egulation Accuracy (Steady State)	±0.25%

# RAMAKER (608) 643-4100 www.ramaker.com PREPARED FOR:



CONSULTANT:

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A 12/01/22 REVISED PCDs ARK DATE DESCRIPTION

# SALEM NORTH FA ID # 10035287

DATE 01/24/2023

60 WITCH MEADOW ROAD SALEM, CT 06420

GENERAC 30KW GENERATOR SPECIFICATIONS

SCALE: NONE

57132 F-4 I

GENERAC 30KW GENERATOR SPECIFICATIONS SCALE: NTS



\* 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.

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Rev. B 08/27/18

GENERAC INDUSTRIAL

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

SD030 | 2.2L | 30 kW

#### **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
KUUEU134AA1	0.0	K0050124V21	75

#### **FUEL CONSUMPTION RATES\***

	Diesel - gph (Lph)	
Fuel Pump Lift- ft (m)	Percent Load	Standby
3 (1)	25%	1.0 (3.7)
	50%	1.4 (5.2)
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)	75%	2.0 (7.5)
16.6 (63)	100%	2.8 (10.5)
	* Fuel supply installation m consumption rates at 100	

#### COOLING

ENGINE

		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)	re 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)
EXHAUST	

			2/11/1001		
		Standby			Standby
Rated Engine Speed	RPM	1,800	Exhaust Flow (Rated Output)	scfm (m³/min)	296.6 (8.4)
Horsepower at Rated kW**	hp	49	Max. Allowable Backpressure (Post Turbocharger)	inHg (kPa)	1.5 (5.1)
Piston Speed	ft/min (m/min)	1,181 (360)	Exhaust Temp (Rated Output)	°F (°C)	892 (478)
BMEP	psi (kPa)	159 (1,096)			

<sup>\*\*</sup> Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes

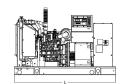
Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards.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

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

**EPA Certified Stationary Emergency** 

#### **DIMENSIONS AND WEIGHTS\***

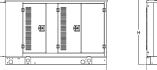




# **OPEN SET (Includes Exhaust Flex)**

Run Time - Hours	Usable Capacity - Gal (L)	LxWxH-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)

GENERAC INDUSTRIAL



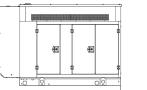


#### **WEATHER PROTECTED ENCLOSURE**

Run Time	Usable Capacity	L x W x H - in (mm)		: - lbs (kg) sure Only
- Hours	- Gal (L)		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)	070	0.44
47	132 (501)	94.8 (2,409) x 38.0 (965) x 74.5 (1,893)	372 (170)	241 (110)
75	211 (799)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)	(170)	(110)
107	300 (1,136)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)		

# **LEVEL 1 ACOUSTIC ENCLOSURE**

Run Time	Usable Capacity	L x W x H - in (mm)		t - Ibs (kg) sure Only
- nouis	- Gal (L)		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)	505	000
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)	(200)	(104)
107	300 (1,136)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)		





#### **LEVEL 2 ACOUSTIC ENCLOSURE**

Run Time	Usable Capacity	L x W x H - in (mm)		- Ibs (kg) ure Only
- nours	- Gal (L)		Steel	Aluminum
No Tank	-	94.8 (2,407) x 38.0 (965) x 61.1 (1,551)	510 - (232)	341 (155)
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)		
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)		

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

Part No. 10000024842

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PREPARED FOR:



CONSULTANT:

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0 01/24/23 FINAL CDs A 12/01/22 REVISED PCDs IARK DATE DESCRIPTION

DATE 01/24/2023

SALEM NORTH FA ID # 10035287

60 WITCH MEADOW ROAD SALEM, CT 06420

GENERAC 30KW GENERATOR **SPECIFICATIONS** 

SCALE: NONE

57132 E-4.2

GENERAC 30KW GENERATOR SPECIFICATIONS

**TTS Series Switches 200 Amps 600 VAC** 



TAS200 **TAS200** 

**200A Automatic Transfer Switch** 

1 of 3 2 of 3

TAS200

#### 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**

Dimensions	24"W x 12"D x 48"H	
Weight	210 lbs.	
	Single Chamber with Main Door	
	Steel	
	UL Type / NEMA 3R Rated	
Construction	Powder Coat Finish for Corrosion Resistance	
	C-UL-US Listed - Automatic Transfer Switch	
	Stainless Steel Hardware	
	3-Point Latching System with Pad-Lockable Handles	
Mounting Options	Wall	
Mounting Options	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				
Diedkei	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				
	Generator Run Alarm				
	Generator Fail – Shutdown Alarm				
Alarm Terminal Board	Generator Fail – Non Shutdown Alarm				
Aldili lelilillai Dualu	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				
	Single-Phase: Black L1, Red L2, White-Neutral, Green-Ground				
2004 Comlack Congretor Connection	3-Phase: Black L1, Red L2, Blue L3, White-Neutral, Green-Ground				
200A Camlock Generator Connection	Uses 4 CH E1016 Male Connectors				
	Mating Connector – CH E1016 Female				



PREPARED FOR:



CONSULTANT:

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A | 12/01/22 REVISED PCDs MARK DATE DESCRIPTION DATE 01/24/2023

# SALEM NORTH FA ID # 10035287

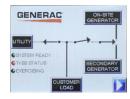
60 WITCH MEADOW ROAD SALEM, CT 06420

GENERAC ATS SPECIFICATIONS

SCALE: NONE

57132 E-5





#### INDICATORS AND BUTTONS

- · System Ready indicator
- · Standby Operating indicator
- Utility Available indicator
- GEN/UTIL Switch Position indicator
- TVSS status

- Normal Test button
- Fast Test button
- Return to Normal button
- Reset button
- Exercising indicator

#### **DETAILS SCREEN**

#### **System Settings:**

- System Voltage/Phases:
- 120/240V single phase (standard)
- 120/208V three phase (optional)
- 120/240V three phase (optional)
- Utility Fail Monitor:
- Under Voltage: 75-95% of nominal voltage
- Over Voltage: 105%-125% of nominal voltage
- Pickup (hysteresis): fixed at 5 volts
- Delay time: 0-60s
- Utility Interrupt Delay: 0-60s
- Return to Utility Timer: 1-30 minutes
- Transfer:
- In-phase, or
- Time-Delay-Neutral at 0.0-10.0s in 1 second increments

#### **Engine Settings:**

- Engine Warm-up timer: 0-20 minutes
- Generator Load Accept:
- Time-Delay-Neutral at 0.0-10.0s in 1 second increments
- Voltage: 85-95% of nominal
- Frequency: 85-95% of nominal
- Engine Minimum Run Timer: 5-30 minutes
- Engine Cooldown Timer: 0-20 minutes

#### **Exercise Settings:**

- Time of day
- · Day of week
- Exercise:
- Exercise with/without load
- Exercise once every 1, 2, or 4 weeks.
- Exercise time-of-day
- Exercise day of week
- Exercise duration: 15-30 minutes

#### Screen Settings:

- Brightness & Contrast button
- Screen Calibration button
- Startup/Clean screen

#### Diagnostics:

- Digital I/O bits status
- Voltage A/D readings

#### Mimic Diagram:

- · System Ready
- · Transfer switch position
- Utility available
- Standby available
- Maintenance/Auto switch position
- Generator source TS position
- TVSS status

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A 12/01/22 REVISED PCDs MARK DATE DESCRIPTION

SALEM NORTH FA ID # 10035287

DATE 01/24/2023

60 WITCH MEADOW ROAD SALEM, CT 06420

GENERAC ATS SPECIFICATIONS

SCALE: NONE

57132 PROJECT NUMBER SHEET E-5.1

GENERAC ATS SPECIFICATIONS

# **ATTACHMENT 2**

#### **160 WITCH MEADOW RD**

**Location** 160 WITCH MEADOW RD **Mblu** 10/ / 044/ 000/

Acct# 659 Owner RENZ RONALD R

**Assessment** \$625,580 **Appraisal** \$1,209,300

PID 626 Building Count 1

#### **Current Value**

Appraisal							
Valuation Year Improvements Land Total							
2016	\$361,200	\$848,100	\$1,209,300				
	Assessment						
Valuation Year	Land	Total					
2016	\$252,800	\$372,780	\$625,580				

#### **Owner of Record**

Owner RENZ RONALD R Sale Price \$0

Co-Owner

Address PO BOX 2100 Book & Page 0133/0303

SALEM, CT 06420-0000 Sale Date 11/05/2001

Instrument 1N

Certificate

#### **Ownership History**

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
RENZ RONALD R	\$0		0133/0303	1N	11/05/2001
NATIONWIDE 1031	\$1,167,000		0127/0439		01/12/2001
PHILLIPS ROGER L & LINDA F	\$80,500		0035/0609		12/26/1984

#### **Building Information**

#### **Building 1: Section 1**

Year Built: 1990 Living Area: 14,450 Replacement Cost: \$454,122 Building Percent Good: 78

#### **Building Photo**

Building Photo

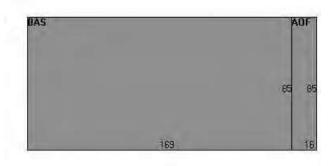
(http://images.vgsi.com/photos/SalemCTPhotos///0004/100\_0019\_4732.JP

#### **Replacement Cost**

Less Depreciation: \$354,200

Building Attributes				
Field	Description			
STYLE	Pre Engrd Gar			
MODEL	Indus/Comm			
Grade	Average			
Stories:	1			
Occupancy	1.00			
Exterior Wall 1	Pre-Finsh Metl			
Exterior Wall 2				
Roof Structure	Gable Or Hip			
Roof Cover	Metal Or Tin			
Interior Wall 1	Wall Brd/Wood			
Interior Wall 2				
Interior Floor 1	Concrete			
Interior Floor 2				
Heating Fuel	None			
Heating Type	None			
AC Type	None/Partial			
Struct Class				
Bldg Use	Mu Comm			
Total Rooms	00			
Total Bedrms	00			
Total Baths	00			
Usrfld 218				
Usrfld 219				
1st Floor Use:				
Heat/AC	None			
Frame Type	Wood Frame			
Baths/Plumbing	Light			
Ceiling/Wall	Sus-Ceil/Mn Wl			
Rooms/Prtns	Light			
Wall Height	20.00			
% Comn Wall				

#### **Building Layout**



(http://images.vgsi.com/photos/SalemCTPhotos//Sketches/626\_626.jpg)

	Building Sub-Areas (sq ft)				
Code Description		Gross Area	Living Area		
BAS	First Floor	13,090	13,090		
AOF	Office	1,360	1,360		
		14,450	14,450		

#### **Extra Features**

Extra Features Lege					
Code	Description	Size	Value	Bldg #	
FHA	Forced air heat	1360.00 S.F	\$3,200	1	

#### Land

Land Use Land Line Valuation

**Use Code** 3222 **Size (Acres)** 100.8

DescriptionComm BldgFrontageZoneIDepth

NeighborhoodC075Assessed Value\$372,780Alt Land ApprNoAppraised Value\$848,100

Category

#### Outbuildings

	Outbuildings <u>Legend</u>						
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #	
SHD1	Shed Frame			288.00 S.F.	\$5,200	1	

#### **Valuation History**

Appraisal Appraisal					
Valuation Year	Land	Total			
2019	\$361,200	\$848,100	\$1,209,300		
2018	\$361,200	\$848,100	\$1,209,300		
2017	\$361,200	\$848,100	\$1,209,300		

Assessment					
Valuation Year	Improvements	Land	Total		
2019	\$252,800	\$372,780	\$625,580		
2018	\$252,800	\$372,780	\$625,580		
2017	\$252,800	\$372,780	\$625,580		

# Google Maps 160 Witch Meadow Rd



Map data ©2021 1000 ft \_\_\_\_\_

SITE NAME: N. Salem

JOB COST #001916

CTO 1916-5

# ZONING/PERMITTING COMPLETION FORM

Zoming Classification for Site.	
Special Relief (setback, height variance, special use permi	it, wetlands permit etc.):
Special Use Permit	•
* Date of Zoning Decision: 02/03/00	
Summary of zoning conditions (Include details of any co expiration dates, renewal obligations, monetary obligationspection fees).	
See attached conditions.	
Submitted by: Esther McNany	Title: Territory Manager
Territory Manager Approval:	
* Attach a copy of the Zoning decision and forward to the Regional Compliance Manager as	



# LEGAL NOTICE SALEM PLANNING AND ZONING COMMISSION

At a meeting of the Salem Planning and Zoning Commission held on Thursday, February 3, 2000, the Commission took the following action:

 Approved, with conditions, the Special Exception application of SBA/Sprint for the construction of a telecommunications tower on the east side of the access road to 160 Witch Meadow Road (Phillips property).

Lawrence Stevens, Chairman

M/S/C (Duncan/Asafaylo) to approve the Special Exception application of SBA/Sprint for the construction of a telecommunications tower on the east side of the access road to 160 Witch Meadow Road (Phillips property) with the following conditions:

1) It is stated in the Erosion & Sedimentation Control Narrative that extra silt fencing will be kept on site during construction and the anti-tracking pad will be in place prior to construction.

. (2) In the project summary box on drawing number T-1, the third paragraph shall be changed to state that the utilities will be below

ground.

/3) In the address box on drawing number T-1, the street name shall be corrected. It should read: "Witch Meadow Road".

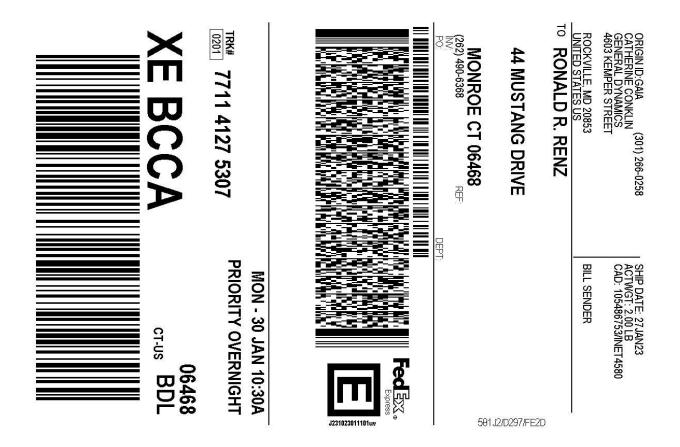
(4) Delete "or as otherwise shown on the contract drawings" under note #2 for access.

75) The pole shall be galvanized steel.

/6) The site plan shall state that if the facility is not in use for 12 consecutive months, it shall be removed by the facility owner at his or her expense. The removal shall occur within 90 days of the end of such 12 month period.

Vote: approved unanimously.

# **ATTACHMENT 3**



#### After printing this label:

- 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
- 2. Fold the printed page along the horizontal line.
- 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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.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 ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



Dear Customer,

The following is the proof-of-delivery for tracking number: 771141275307

**Delivery Information:** 

Delivered Status:

Signature not required Signed for by:

Service type: FedEx Priority Overnight

Deliver Weekday; Residential Delivery Special Handling:

MONROE, CT, 06468

44 MUSTANG DR

Residence

Delivery date: Jan 30, 2023 10:38

**Shipping Information:** 

Tracking number: Ship Date: 771141275307 Jan 27, 2023

> Weight: 2.0 LB/0.91 KG

Recipient: Ronald R. Renz, 44 Mustang Drive MONROE, CT, US, 06468

Shipper: Catherine Conklin, General Dynamics

Delivered To:

**Delivery Location:** 

4603 Kemper Street ROCKVILLE, MD, US, 20853



#### After printing this label:

- 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
- 2. Fold the printed page along the horizontal line.
- 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Receptionist/Front Desk

270 HARTFORD RD



Dear Customer,

The following is the proof-of-delivery for tracking number: 771141261701

**Delivery Information:** 

Status: Delivered

Signed for by: L.FLUGRAD

Service type: FedEx Priority Overnight

Special Handling: Deliver Weekday

sALEM, CT, 06420

**Delivery date:** Jan 30, 2023 09:11

Shipping Information:

**Tracking number:** 771141261701 **Ship Date:** Jan 27, 2023

**Weight:** 2.0 LB/0.91 KG

Recipient:

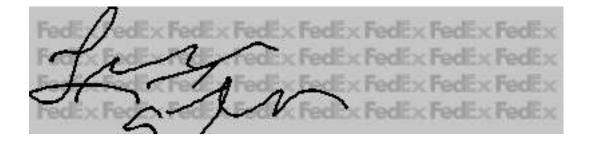
Nicole Haggerty, Town Planner, Town of Salem 270 Hartford Road SALEM, CT, US, 06420

Shipper:

Delivered To:

**Delivery Location:** 

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





#### After printing this label:

- 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
- 2. Fold the printed page along the horizontal line.
- 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Receptionist/Front Desk

270 HARTFORD RD



Dear Customer,

The following is the proof-of-delivery for tracking number: 771141249012

**Delivery Information:** 

Status: Delivered

Signed for by: L.FLUGRAD

Service type: FedEx Priority Overnight

Special Handling: Deliver Weekday

SALEM, CT, 06420

**Delivery date:** Jan 30, 2023 09:11

Shipping Information:

**Tracking number:** 771141249012 **Ship Date:** Jan 27, 2023

**Weight:** 2.0 LB/0.91 KG

Recipient:

Ed Chmielewski, First Selectman, Town of Salem 270 Hartford Road SALEM, CT, US, 06420

Shipper:

Delivered To:

**Delivery Location:** 

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

