



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.

# GDIT

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.

# GDIT

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:

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

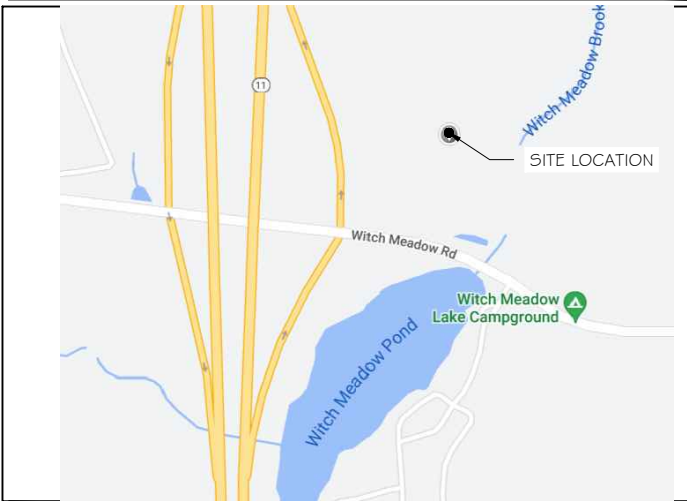


at&t Mobility

GENERATOR PROJECT  
30KW GENERAC DIESEL GENERATOR  
200A GENERAC ATS

160 WITCH MEADOW ROAD  
SALEM, CT 06420

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:

1. INTERNATIONAL BUILDING CODE 2021
2. NATIONAL ELECTRIC CODE 2020
3. AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION
5. TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL TOWER AND ANTENNA SUPPORTING STRUCTURES
6. TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

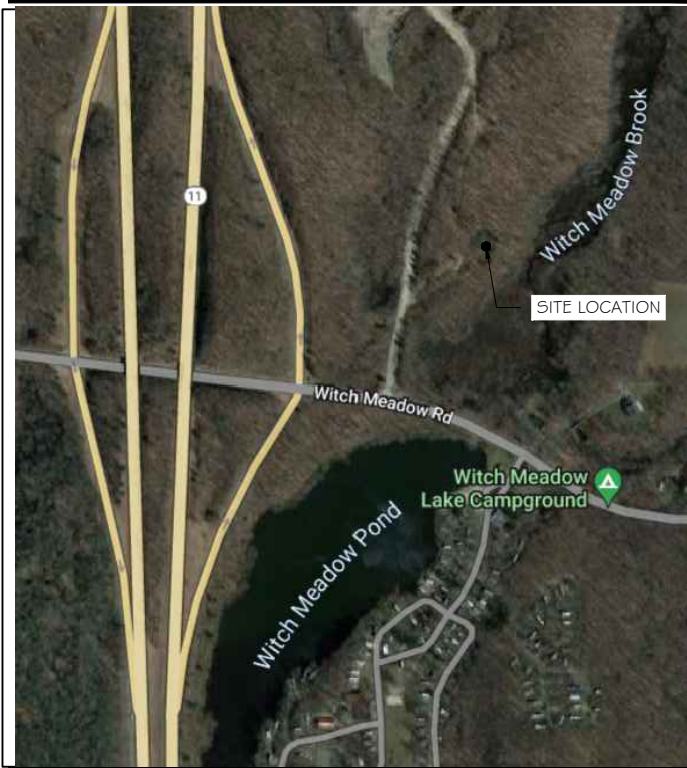


TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN CONNECTICUT

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

SITE DATA:

SITE NAME: SALEM NORTH  
FA NUMBER: 10035287

PROPERTY OWNER:

SBA TOWERS  
8051 CONGRESS AVE  
BOCA RATON, FL 33487

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

ADDRESS:

160 WITCH MEADOW ROAD  
SALEM, CT 06420

COUNTY: NEW LONDON

LAT.: 41.50280 N°  
LONG.: 72.29710 W°

GROUND ELEVATION: 345' FT AMSL

APPLICANT INFORMATION:

AT&T MOBILITY  
7150 STANDARD DR  
HANOVER, MD 21076

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

NOTES:

N-1 GENERAL NOTES

SITE:

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

ELECTRICAL & GROUNDING:

E-1 WIRING DETAILS  
E-2 PANEL AND PENETRATION DETAILS  
E-3 ATS, CONDUIT & GROUND ROD DETAILS  
E-4 GENERAC GENERATOR SPECIFICATIONS  
E-4.1 GENERAC GENERATOR SPECIFICATIONS  
E-4.2 GENERAC GENERATOR SPECIFICATIONS  
E-5 GENERAC ATS SPECIFICATIONS  
E-5.1 GENERAC ATS SPECIFICATIONS

SIGNATURE BLOCK

AT&T MGR. \_\_\_\_\_ DATE \_\_\_\_\_

GENERAL DYNAMICS  
CONSTRUCTION MGR. \_\_\_\_\_ DATE \_\_\_\_\_

SITE ACQUISITION \_\_\_\_\_ DATE \_\_\_\_\_



PREPARED FOR:



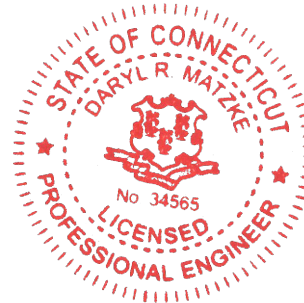
CONSULTANT:

**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: \_\_\_\_\_ Date: 1/24/2023

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

PROJECT TITLE:

SALEM NORTH  
FA ID # 10035287

PROJECT INFORMATION:  
160 WITCH MEADOW ROAD  
SALEM, CT 06420

SHEET TITLE:

TITLE SHEET

SCALE: NONE

PROJECT NUMBER 57132  
SHEET NUMBER T-1





SCOPE OF WORK DETAILS

GENERAL:

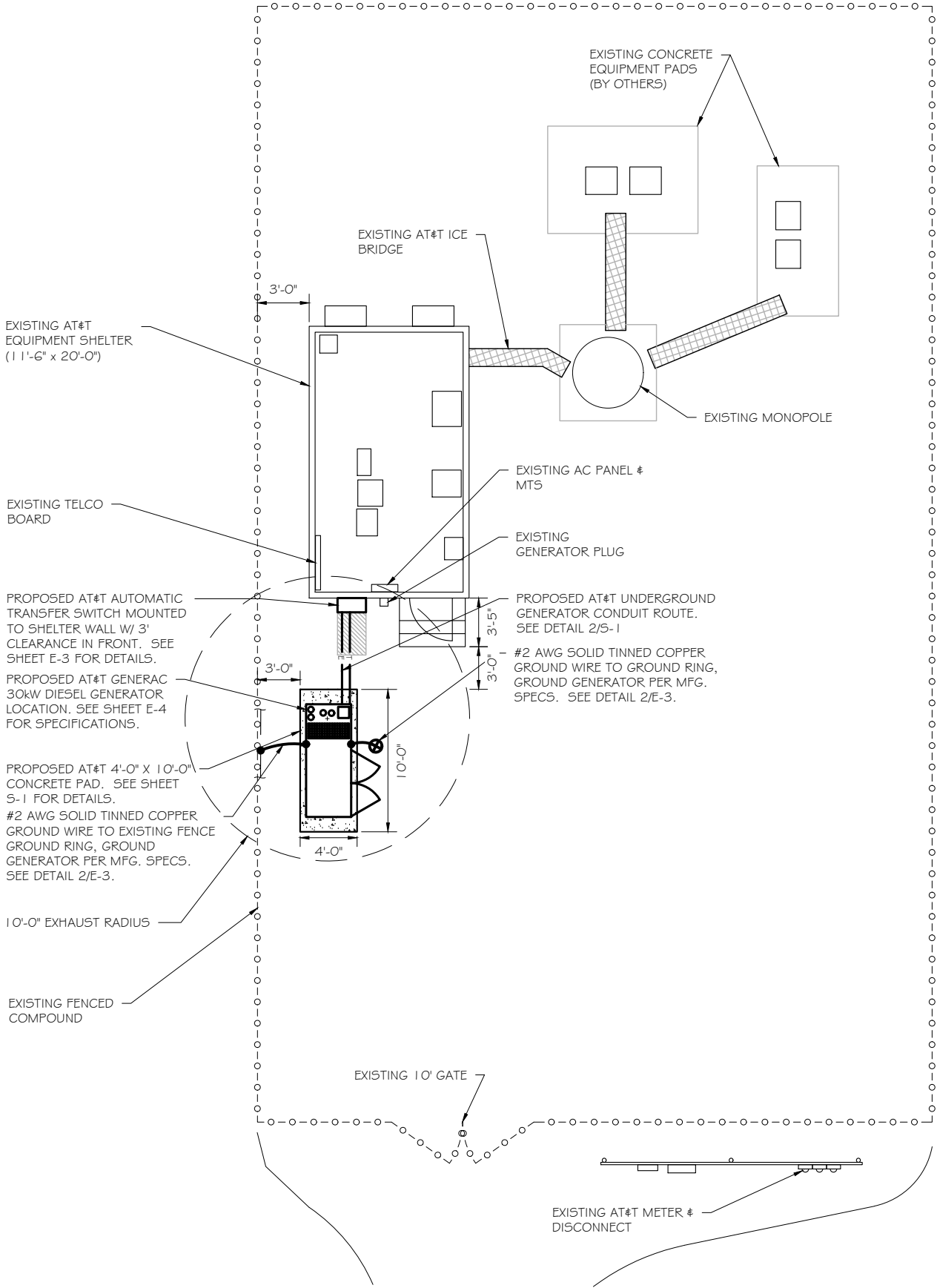
- NEW GENERAC DIESEL GENERATOR PROVIDED BY GENERAL DYNAMICS & INSTALLED BY GENERAL CONTRACTOR, SEE E-4.
- NEW 4'-0" X 10'-0" CONCRETE PAD PROVIDED & INSTALLED BY GENERAL CONTRACTOR (AS REQUIRED) SEE S-1
- NEW GENERAC AUTOMATIC TRANSFER SWITCH PROVIDED BY GENERAL DYNAMICS & INSTALLED BY CONTRACTOR (AS 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 & EQUIPMENT LAYOUT  
SCALE: 1" = 10'





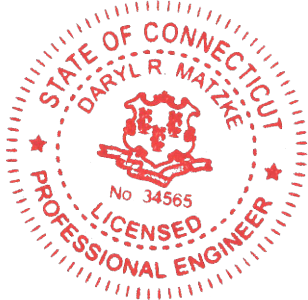
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PREPARED FOR:



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

Certification & Seal:  
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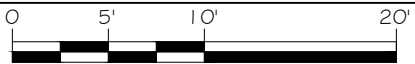
    1/24/2023  
Signature:    Date:

O	01/24/23	FINAL CDs
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MARK	DATE	DESCRIPTION
ISSUE	DATE	DATE
PHASE	FINAL	ISSUED 01/24/2023

PROJECT TITLE:  
  
SALEM NORTH  
FA ID # 10035287

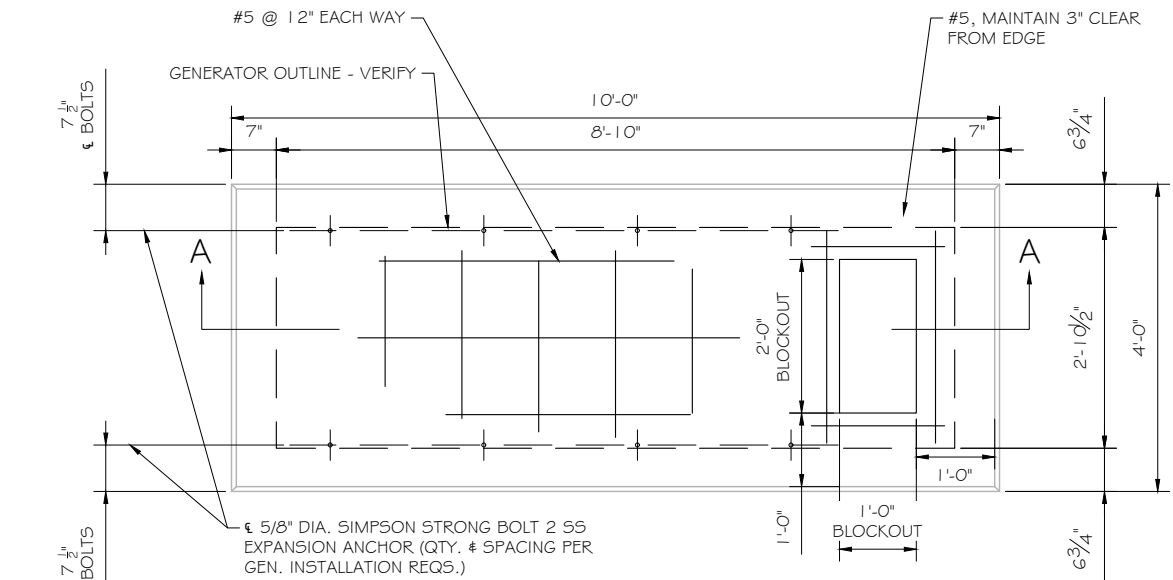
PROJECT INFORMATION:  
160 WITCH MEADOW ROAD  
SALEM, CT 06420

SHEET TITLE:  
  
SITE PLAN

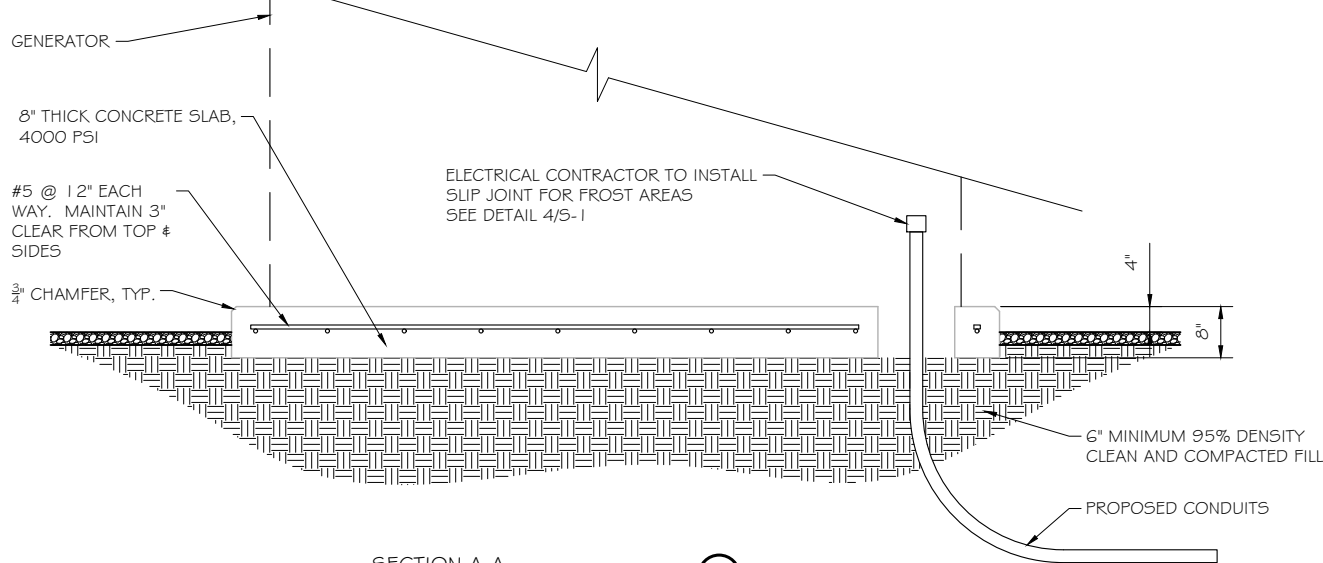


11" x 17"    - 1" = 10'  
22" x 34"    - 1" = 5'

PROJECT NUMBER	57132
SHEET NUMBER	A-1



FOUNDATION PLAN  
SCALE: NTS



SECTION A-A  
SCALE: NTS

DOUBLE WALL FUEL TANK BASE SPECIFICATION

REF: ATT 30KW GENERATOR PACKAGE  
UL REGISTRATION NUMBER: MH18459  
U.L. 142 DOUBLE WALL FUEL TANK BASE SPECIFICATION  
FUEL TANK BASE CONSTRUCTION:

- BE CONSTRUCTED IN ACCORDANCE WITH UNDERWRITERS LABORATORIES STANDARD UL-142. BE CONSTRUCTED IN ACCORDANCE WITH FLAMMABLE & COMBUSTIBLE LIQUIDS CODE, NFPA 30; THE STANDARD FOR INSTALLATION & USE OF STATIONARY COMBUSTIBLE ENGINE & GAS TURBINES, NFPA 37; AND THE STANDARD FOR EMERGENCY & STANDBY POWER SYSTEMS, NFPA 110.
- ANCHORS MINIMUM (4) @ 5/8" FOR GEN-SET MOUNTING

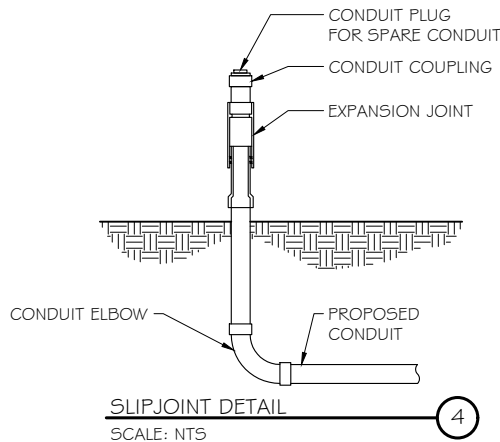
SUB BASE TANK TESTING: PRIMARY TANK & SECONDARY CONTAINMENT BASIN SECTIONS SHALL BE PRESSURIZED AT 3-5 PSI AND LEAK-CHECKED TO ENSURE INTEGRITY OF SUB BASE WELD SEAMS PER UL-142 STANDARDS

FUEL FILL: 5 GALLON SPILL CONTAINMENT WITH ALARM

- 40% REMAINING FOR ALARM
- 20% REMAINING FOR SHUT-DOWN

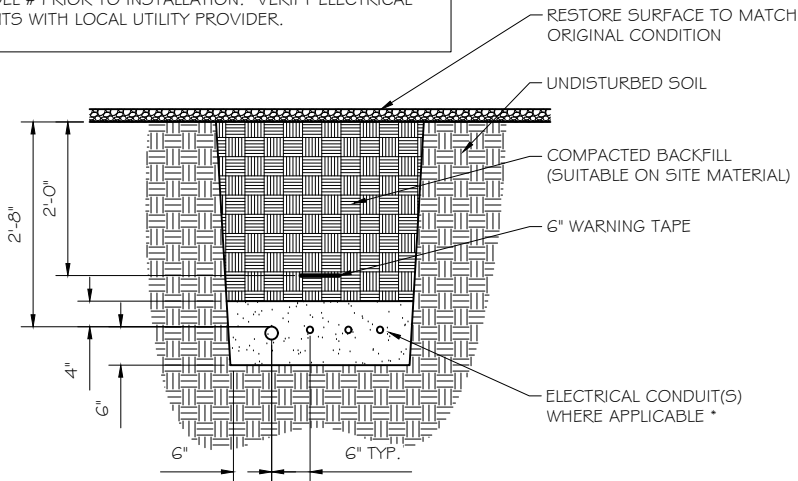
FACTORY PRE-SET AT 95% FULL FOR ALARM

FUEL CONTAINMENT BASIN: SUB BASE TANK SHALL INCLUDE A WELDED STEEL CONTAINMENT BASIN, SIZED AT A MINIMUM OF 110% OF THE TANK CAPACITY TO PREVENT ESCAPE OF FUEL INTO THE ENVIRONMENT IN THE EVENT OF A TANK RUPTURE. A FUEL CONTAINMENT BASIN LEAK DETECTOR SWITCH SHALL BE PROVIDED.



NOTE:

VERIFY WIRE AND CONDUIT QUANTITY & SIZES WITH GENERATOR MAKE & MODEL # PRIOR TO INSTALLATION. VERIFY ELECTRICAL REQUIREMENTS WITH LOCAL UTILITY PROVIDER.



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

NOTES:

- PROVIDE PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW.
- PROVIDE RGS CONDUIT AND ELBOWS AT STUB UP LOCATIONS (I.E. SERVICE POLE, BTS EQUIPMENT, ETC.)
- INSTALL UTILITY PULLBOXES PER NEC.

UTILITY CONDUIT TRENCH  
SCALE: NTS

STRUCTURAL GENERAL NOTES

- GENERAL CONDITIONS
  - 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.
  - 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.
  - DO NOT SCALE DRAWINGS
  - VERIFY ALL EQUIPMENT MOUNTING DIMENSIONS PER MANUFACTURER DRAWINGS
  - DESIGN LOADS ARE (GENERAC):

LIVE LOAD	: 100 PSF
EQUIPMENT SIZE	: 889.1" H, 106" W, 38" D
WEIGHT WITH WOODEN SHIPPING SKID	
ENCLOSED GENERATOR	: 3974 LBS
- FOR DESIGN & ANALYSIS OF THE FOUNDATION, THE MINIMUM NET SOIL BEARING CAPACITY SHALL BE ASSUMED TO BE 2000 PSF.
- CONCRETE
  - MEET OR EXCEED THE FOLLOWING CODES & STANDARDS:

DESIGN	: ACI 318-11
CONSTRUCTION	: ACI 301
DETAILING	: CRSI MANUAL OF STANDARD PRACTICE
REIN. STEEL	: ASTM A 615 GRADE 60, DEFORMED
MIXING	: ASTM C 94. READY MIX CONCRETE
AIR ENTRAINMENT	: ACI 318 AND ASTM C-260
AGGREGATE	: ASTM C 33 AND C 330 (FOR LIGHT WEIGHT)
  - CONCRETE STRENGTH AT 28 DAYS SHALL BE 4000 PSI MINIMUM
  - DO NOT FIELD BEND OR WELD TO GRADE 60 REINFORCED STEEL
  - PROVIDE AIR ENTRAINED CONCRETE WITH AIR CONTENT OF 5 TO 7% FOR ALL CONCRETE EXPOSED TO EARTH OR WEATHER.
  - MAXIMUM AGGREGATE SIZE: 3/4"
  - DO NOT USE IN ADMIXTURE, WATER OR OTHER CONSTITUENTS OF CONCRETE WHICH HAS CALCIUM CHLORIDE.
  - MINIMUM COVER FOR REINFORCING STEEL SHALL BE AS SHOWN ON PLAN.
  - FOUNDATION & EXCAVATION NOTES
    - SLAB SHALL BE CONSTRUCTED UPON UNDISTURBED, NATURAL SUBGRADE OR COMPACTED GRANULAR FILL WITH AN ASSUMED MINIMUM NET ALLOWABLE BEARING CAPACITY OF 1800 PSF.
    - ALL ORGANIC AND/OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM FOUNDATION & SLAB SUBGRADE & BACKFILL AREAS, & THEN BACKFILLED WITH ACCEPTABLE GRANULAR FILL COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT (ASTM D 1557).
    - 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.



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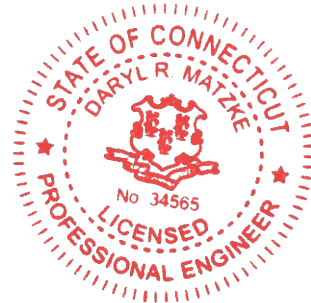
CONSULTANT:

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Signature: \_\_\_\_\_ Date: 1/24/2023

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SALEM NORTH  
FA ID # 10035287

PROJECT INFORMATION:  
160 WITCH MEADOW ROAD  
SALEM, CT 06420

SHEET TITLE:

FOUNDATION DETAILS

SCALE: NONE

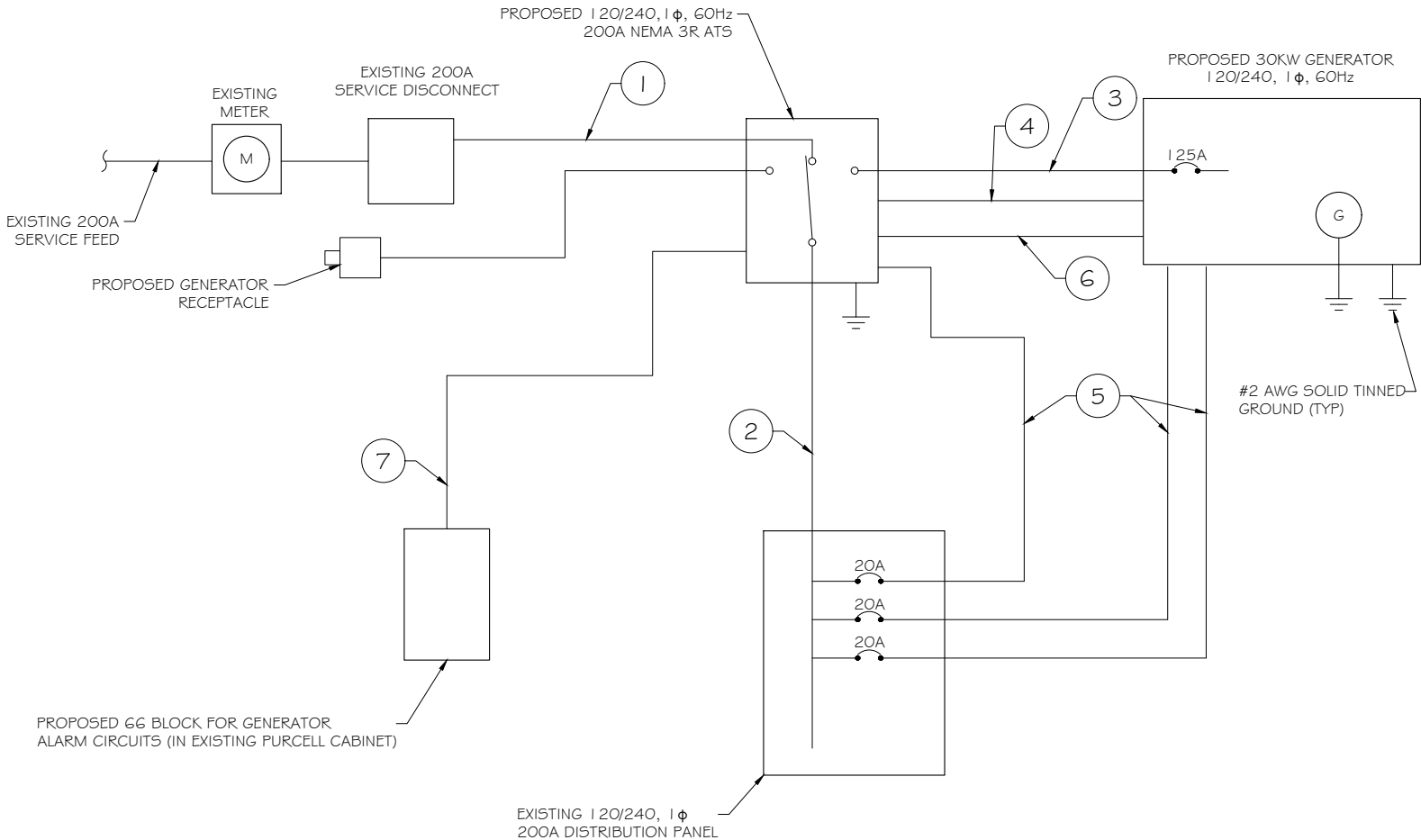
PROJECT NUMBER 57132  
SHEET NUMBER S-1

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 ORANGE / WHITE	LOW FUEL
BROWN * BROWN / WHITE *	FUEL LEAK
*CAT5 CABLE ONLY, FROM 2ND CAT5 CABLE	

ALARM WIRING IDENTIFICATION CHART  
SCALE: NTS



PROPOSED WIRING DIAGRAM  
SCALE: NTS

  
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PREPARED FOR:



CONSULTANT:  
**GENERAL DYNAMICS**  
Information Technology, Inc.  
  
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SALEM NORTH  
FA ID # 10035287  
  
PROJECT INFORMATION:  
160 WITCH MEADOW ROAD  
SALEM, CT 06420

SHEET TITLE:  
  
WIRING DETAILS

SCALE: NONE

PROJECT NUMBER	57132
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	60	HVAC #1	2	1P	ON	20	TELCO RECEPTACLE
3					4	1P	ON	20	
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				
11	2P	OFF	30		12	2P	ON	30	EMERSON PP CKT#4
13					14	2P	ON	30	EMERSON PP CKT#5
15	2P	OFF	30		16	2P	ON	30	EMERSON PP CKT#5
17					18	2P	ON	30	EMERSON PP CKT#5
19	2P	ON	30	EMERSON PP CKT#1	20	2P	ON	30	EMERSON PP CKT#6
21					22	2P	ON	30	EMERSON PP CKT#6
23	2P	ON	30	EMERSON PP CKT#2	24	2P	OFF	30	INVERTER
25					26	2P	OFF	30	
27	2P	ON	30	EMERSON PP CKT#3	28	1P	ON	20	RECEPTACLES RIGHT
29					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

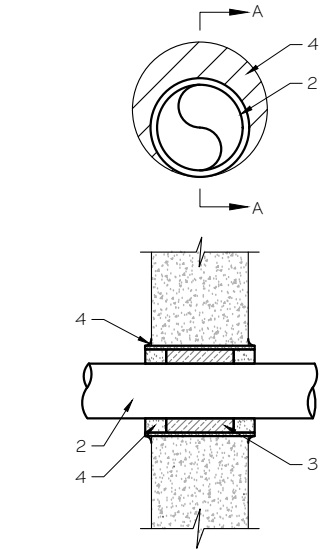
PROPOSED 20A BREAKERS FOR ATS, BLOCK HEATER  
AND BATTERY CHARGER ON NEW AT#T GENERATOR

EXISTING PANEL SCHEDULE  
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:  
A. STEEL PIPE-NOMINAL 6" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE.  
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.
- 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 CP601S OR CP604 SEALANT IS USED.

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)  
SCALE: NTS

Type GR  
CABLE TAP TO  
TOP OF GROUND  
ROD

Type GT  
THROUGH CABLE  
TO TOP OF  
GROUND ROD.

Type GY  
THROUGH CABLE  
TO SIDE OF  
GROUND ROD

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

Type TA  
TEE OF  
HORIZONTAL RUN  
AND TAP CABLES.

Type VN  
HORIZONTAL CABLE  
TAP TO  
VERTICAL STEEL  
SURFACE OR  
THE SIDE OF  
HORIZONTAL PIPE

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

Type VV  
THROUGH VERTICAL  
CABLE TO  
VERTICAL STEEL  
SURFACE OR TO THE  
SIDE OF EITHER  
HORIZONTAL OR  
VERTICAL PIPE

Type GR  
CABLE TAP TO  
TOP OF  
GROUND ROD

CADWELD DETAILS  
SCALE: NTS



# RAMAKER

employee-owned

(608) 643-4100    www.ramaker.com

PREPARED FOR:



# at&t

## Mobility

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

Certification & Seal:  
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Signature: \_\_\_\_\_ Date: 1/24/2023

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

PROJECT TITLE:  
  
SALEM NORTH  
FA ID # 10035287

PROJECT INFORMATION:  
160 WITCH MEADOW ROAD  
SALEM, CT 06420

SHEET TITLE:  
  
PANEL AND PENETRATION  
DETAILS

SCALE: NONE

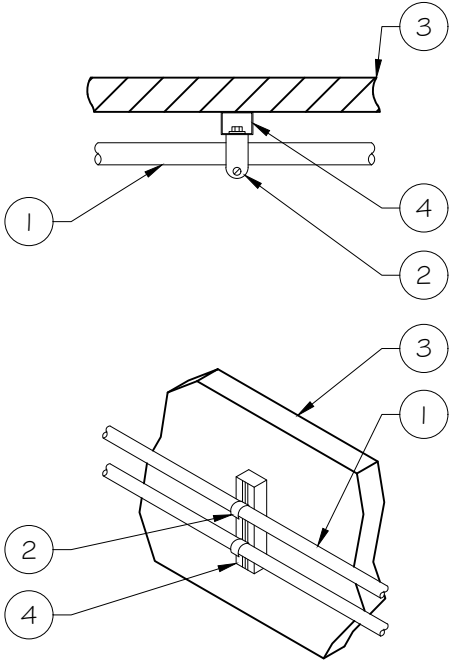
PROJECT NUMBER	57132
SHEET NUMBER	E-2

- 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	

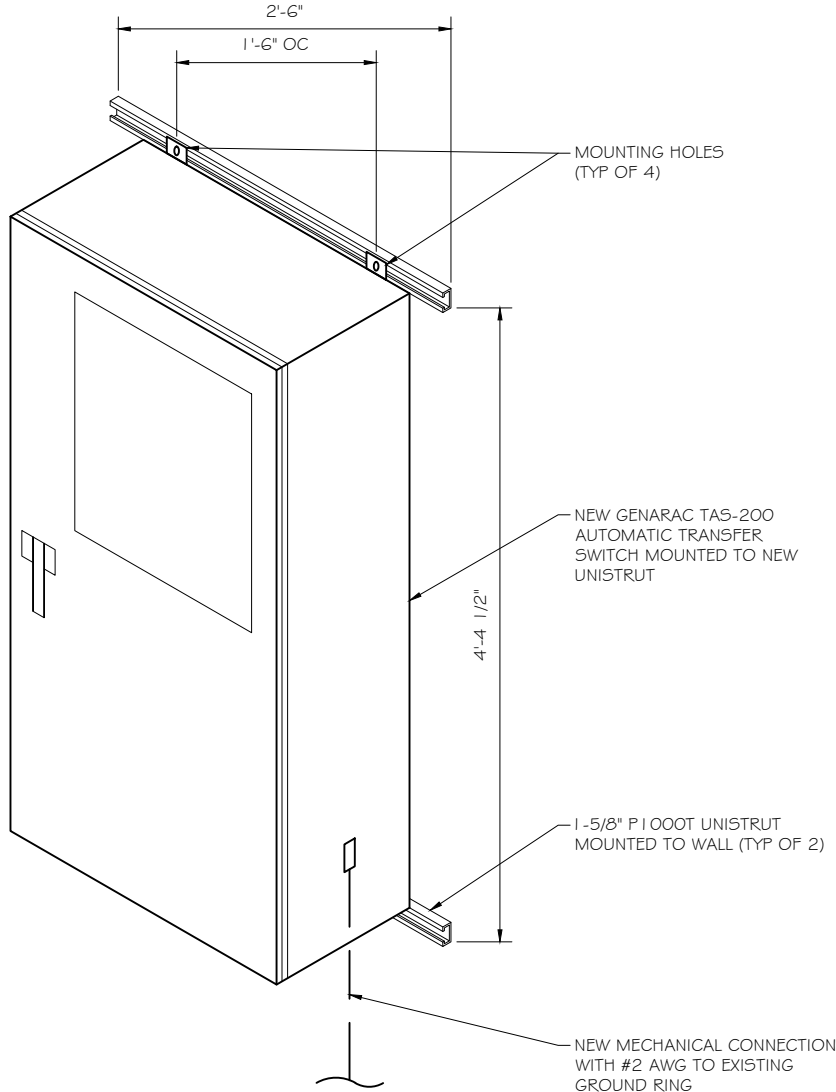
CONDUIT WALL MOUNT

SCALE: NTS



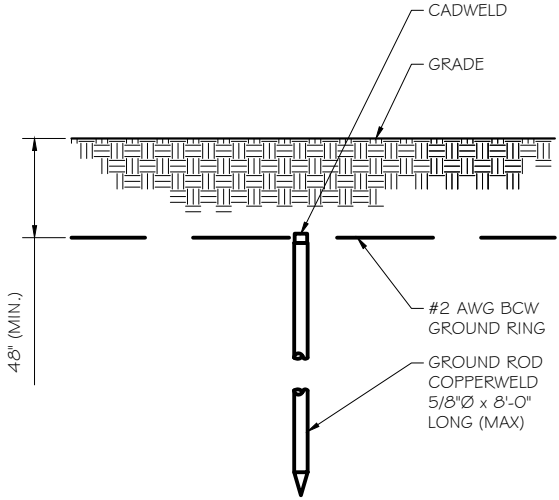
WALL CONSTRUCTION TYPE	USE
HOLLOW	3/8" DIA. TOGGLE BOLT
HOLLOW, AT STUD	3/8" DIA. LAG SCREW
CONCRETE BLOCK (HOLLOW)	7/16" DIA. HILTI HY-20 WITH SCREEN MINIMUM EMBEDMENT 2-1/2"
CONCRETE (SOLID)	7/16" DIA. HILTI HY-150 WITH SCREEN MINIMUM EMBEDMENT 2-1/2"

- 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



GROUND ROD DETAIL

SCALE: NTS

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



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PREPARED FOR:



CONSULTANT:  
**GENERAL DYNAMICS**  
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WESTWOOD, MA 02090

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PROJECT TITLE:  
  
SALEM NORTH  
FA ID # 10035287

PROJECT INFORMATION:  
160 WITCH MEADOW ROAD  
SALEM, CT 06420

SHEET TITLE:  
  
ATS, CONDUIT & GROUND ROD  
DETAILS

SCALE: NONE

PROJECT NUMBER	57132
SHEET NUMBER	E-3





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

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 - Modern
- 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

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

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PROJECT TITLE:  
  
SALEM NORTH  
FA ID # 10035287

PROJECT INFORMATION:  
160 WITCH MEADOW ROAD  
SALEM, CT 06420

SHEET TITLE:  
  
GENERAC 30KW GENERATOR  
SPECIFICATIONS

SCALE: NONE

PROJECT NUMBER	57132
SHEET NUMBER	E-4.1

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)
* Fuel supply installation must accommodate fuel consumption rates at 100% load.		
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)		
16.6 (63)		

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)

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

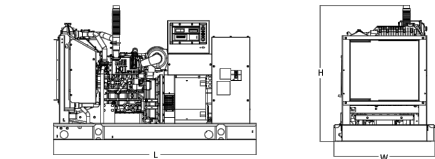
Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards.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

GENERAC INDUSTRIAL POWER

SD030 | 2.2L | 30 kW  
INDUSTRIAL DIESEL GENERATOR SET

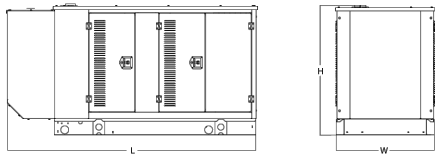
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DIMENSIONS AND WEIGHTS\*



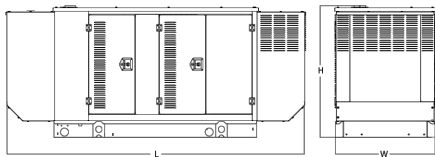
OPEN SET (Includes Exhaust Flex)

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)	
			Steel	Aluminum
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)	



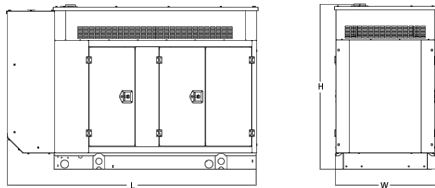
WEATHER PROTECTED ENCLOSURE

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)	505 (230)	338 (154)
47	132 (501)	112.5 (2,857) x 38.0 (965) x 74.5 (1,893)		
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)	510 (232)	341 (155)
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)		

\* 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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SPEC SHEET

5 of 6

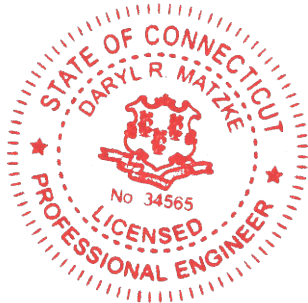
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**SALEM NORTH  
FA ID # 10035287**

PROJECT INFORMATION:  
160 WITCH MEADOW ROAD  
SALEM, CT 06420

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

SCALE: NONE

PROJECT NUMBER: 57132  
SHEET NUMBER: E-4.2

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

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



Image used for illustration purposes only.

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:



UL  
LISTED

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



nec

NEC 700, 701 and 702



NEMA

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
	Stainless Steel Hardware
Mounting Options	3-Point Latching System with Pad-Lockable Handles
	Wall
Installed	H-frame
	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  
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.





1/24/2023  
Date:

O	01/24/23	FINAL CDs
A	12/01/22	REVISED PCDs
MARK	DATE	DESCRIPTION
ISSUE PHASE	FINAL	DATE ISSUED    01/24/2023
PROJECT TITLE:  SALEM NORTH FA ID # 10035287		
PROJECT INFORMATION: 160 WITCH MEADOW ROAD SALEM, CT 06420		
SHEET TITLE:  GENERAC ATS SPECIFICATIONS		
SCALE: NONE		
PROJECT NUMBER	57132	
SHEET NUMBER	E-5	



GENERAC

INDUSTRIAL POWER

TTS Control Systems

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

<b>System Settings:</b> <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>	<b>Exercise Settings:</b> <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>
	<b>Screen Settings:</b> <ul style="list-style-type: none"><li>Brightness &amp; Contrast button</li><li>Screen Calibration button</li><li>Startup/Clean screen</li></ul>
	<b>Diagnostics:</b> <ul style="list-style-type: none"><li>Digital I/O bits status</li><li>Voltage A/D readings</li></ul>
<b>Engine Settings:</b> <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>	<b>Mimic Diagram:</b> <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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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.





1/24/2023  
Date:

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

PROJECT TITLE:  
  
SALEM NORTH  
FA ID # 10035287

PROJECT INFORMATION:  
160 WITCH MEADOW ROAD  
SALEM, CT 06420

SHEET TITLE:  
  
GENERAC ATS SPECIFICATIONS

SCALE: NONE

PROJECT NUMBER	57132
SHEET NUMBER	E-5.1

# 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	Improvements	Land	Total
2016	\$252,800	\$372,780	\$625,580

Owner of Record

Owner

RENZ RONALD R

Co-Owner

Address

PO BOX 2100  
SALEM, CT 06420-0000

Sale Price

\$0

Certificate

Book & Page

0133/0303

Sale Date

11/05/2001

Instrument

1N

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](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
Usrflid 218	
Usrflid 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](http://images.vgsi.com/photos/SalemCTPhotos//Sketches/626_626.jpg))

Building Sub-Areas (sq ft)			Legend
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				Legend
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
Description	Comm Bldg	Frontage	
Zone	I	Depth	
Neighborhood	C075	Assessed Value	\$372,780
Alt Land Appr Category	No	Appraised Value	\$848,100

Outbuildings

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

Valuation History

Appraisal			
Valuation Year	Improvements	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 ID #4275-038

SITE NAME: N. Salem

JOB COST #001916

CTO 1916-5

**ZONING/PERMITTING COMPLETION FORM**

Zoning Classification for Site:

Special Relief (setback, height variance, special use permit, wetlands permit etc.):

**Special Use Permit**

\* Date of Zoning Decision: 02/03/00

Summary of zoning conditions **(Include details of any conditions relative to time restrictions, expiration dates, renewal obligations, monetary obligations, performance obligation, inspection 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 soon as possible, after the decision.



**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:

1. 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.
- ✓5) 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

ORIGIN ID:GAA (301) 266-0258  
CATHERINE CONKLIN  
GENERAL DYNAMICS  
4603 KEMPER STREET

ROCKVILLE, MD 20853  
UNITED STATES US

SHIP DATE: 27 JAN23  
ACTWGT: 2.00 LB  
CAD: 105486753/NET4580

BILL SENDER

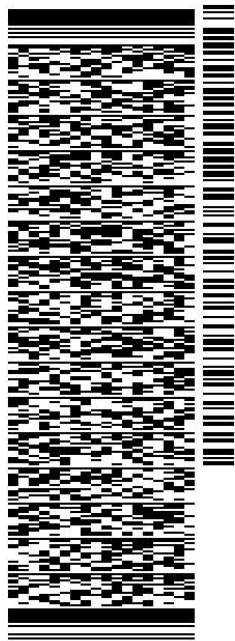
TO RONALD R. RENZ

44 MUSTANG DRIVE

MONROE CT 06468

REF: (262) 490-6368  
INV/ PO: DEPT:

581J2/D297/FE2D



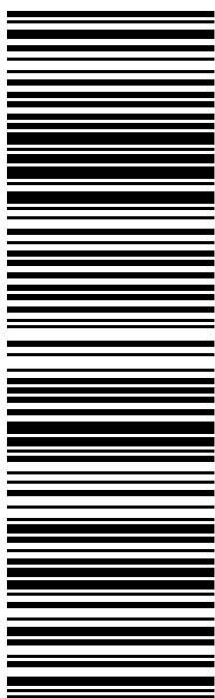
J231023011101uv

TRK# 7711 4127 5307  
0201

MON - 30 JAN 10:30A  
PRIORITY OVERNIGHT

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06468  
CT-US BDL



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January 30, 2023

Dear Customer,

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

---

**Delivery Information:**

---

<b>Status:</b>	Delivered	<b>Delivered To:</b>	Residence
<b>Signed for by:</b>	Signature not required	<b>Delivery Location:</b>	44 MUSTANG DR
<b>Service type:</b>	FedEx Priority Overnight		
<b>Special Handling:</b>	Deliver Weekday; Residential Delivery		MONROE, CT, 06468
		<b>Delivery date:</b>	Jan 30, 2023 10:38

---

**Shipping Information:**

---

<b>Tracking number:</b>	771141275307	<b>Ship Date:</b>	Jan 27, 2023
		<b>Weight:</b>	2.0 LB/0.91 KG

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

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

Proof-of-delivery details appear below; however, no signature is available for this FedEx Express shipment because a signature was not required.

ORIGIN ID:GAA (301) 266-0258  
CATHERINE CONKLIN  
GENERAL DYNAMICS  
4603 KEMPER STREET

SHIP DATE: 27 JAN23  
ACTWGT: 2.00 LB  
CAD: 105486753/NET4580

ROCKVILLE, MD 20853  
UNITED STATES US

BILL SENDER

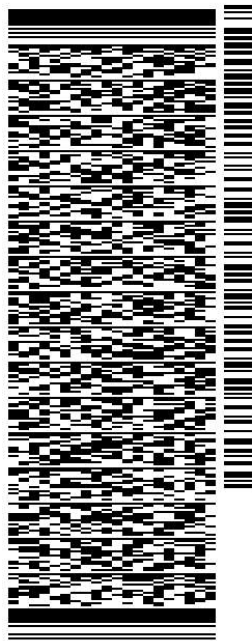
TO NICOLE HAGGERTY, TOWN PLANNER  
TOWN OF SALEM  
270 HARTFORD ROAD

SALEM CT 06420

REF:

DEPT:

(860) 859-3873  
INV/  
PO:



J231023011101uv

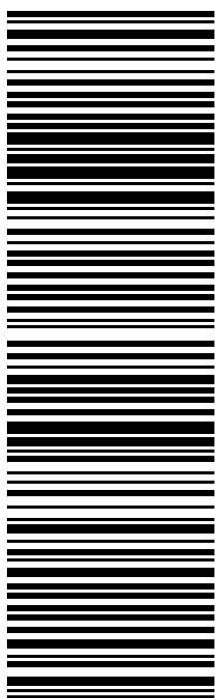
TRK# 7711 4126 1701  
0201

MON - 30 JAN 12:00P

PRIORITY OVERNIGHT

**XE SKKA**

06420  
CT-US BDL



581J2/D297/FE2D

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January 30, 2023

Dear Customer,

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

**Delivery Information:**

<b>Status:</b>	Delivered	<b>Delivered To:</b>	Receptionist/Front Desk
<b>Signed for by:</b>	L.FLUGRAD	<b>Delivery Location:</b>	270 HARTFORD RD
<b>Service type:</b>	FedEx Priority Overnight		
<b>Special Handling:</b>	Deliver Weekday		SALEM, CT, 06420
		<b>Delivery date:</b>	Jan 30, 2023 09:11

**Shipping Information:**

<b>Tracking number:</b>	771141261701	<b>Ship Date:</b>	Jan 27, 2023
		<b>Weight:</b>	2.0 LB/0.91 KG

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

**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: 27 JAN23  
ACTWGT: 2.00 LB  
CAD: 105486753/NET4580

BILL SENDER

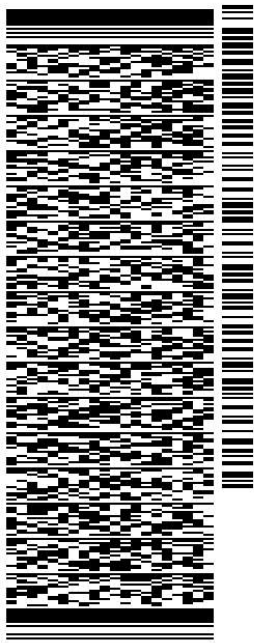
TO ED CHMIELEWSKI, FIRST SELECTMAN  
TOWN OF SALEM  
270 HARTFORD ROAD

SALEM CT 06420

(860) 859-3873

REF:

INV/ PO: DEPT:



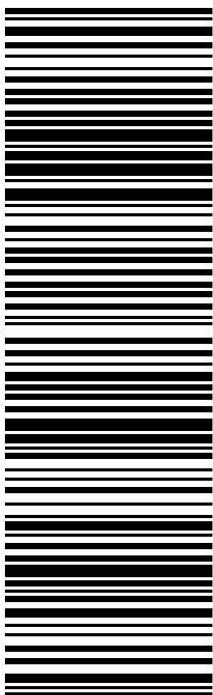
J231023011101uv

TRK# 7711 4124 9012  
0201

MON - 30 JAN 12:00P

PRIORITY OVERNIGHT

XE SKKA 06420  
CT-US BDL



581J2/D297/FE2D

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January 30, 2023

Dear Customer,

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

---

**Delivery Information:**

---

<b>Status:</b>	Delivered	<b>Delivered To:</b>	Receptionist/Front Desk
<b>Signed for by:</b>	L.FLUGRAD	<b>Delivery Location:</b>	270 HARTFORD RD
<b>Service type:</b>	FedEx Priority Overnight		
<b>Special Handling:</b>	Deliver Weekday		SALEM, CT, 06420
		<b>Delivery date:</b>	Jan 30, 2023 09:11

---

**Shipping Information:**

---

<b>Tracking number:</b>	771141249012	<b>Ship Date:</b>	Jan 27, 2023
		<b>Weight:</b>	2.0 LB/0.91 KG

**Recipient:**

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

**Shipper:**

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