

**GENERAL DYNAMICS**  
Wireless Services

August 6, 2019

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

Re: Notice of Exempt Modification – Emergency Backup Generator  
50 Clinton Avenue, Norwich, CT 06360

Dear Melanie,

AT&T Mobility currently maintains a wireless telecommunications facility at the above referenced address. The monopole structure and AT&T's ground equipment are surrounded by a chain link fence. AT&T currently does not maintain a generator at this cell site.

In an effort to further enhance the network reliability, AT&T intends to modify its facility by installing a new 20KW diesel fueled generator in a designated 4' x 5' lease area which will be a 9' x 9' extension of the existing fenced compound that Crown Castle has existing leasehold rights to. The proposed generator will be placed on a 4' x 5' concrete pad. Construction Drawings are attached and approved by Crown Castle.

Please accept this letter as notification pursuant to R.C.S.A. Section 16-50j-73, for construction that constitutes modification pursuant to R.C.S.A Section 16-50j-72(b)(2). In accordance with R.C.S.A Section 16-50j-73, a copy of this submission is being sent to the City of Norwich – John L. Salamone - Town Manager, the City of Norwich – Deanna Rhodes, City Planner, City of Norwich – Richard Shuck, Zoning Official, City of Norwich – Jim Troeger, Building Official, and the tower owner – Crown Castle. Evidence of notifications are attached hereto.

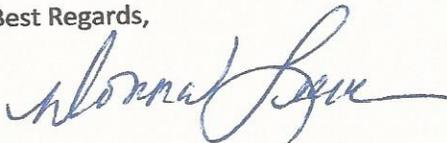
**AT&T's proposed Wireless Modifications Constitute An "Exempt Modification"**

The proposed modification to the above mentioned Facility constitutes an exempt modification of an existing facility provided for R.C.S.A Section 16-50j-72(b)(2) and Council regulations promulgated pursuant thereto.

- 1) The proposed modification will not result in an increase in the height of the existing tower.
- 2) The generator and attached fuel tank will remain entirely within the limits of Crown's leased area. The modifications therefore, will not require the extension of the existing boundary, however will increase the existing compound by 18 square feet to accommodate the backup emergency generator
- 3) The proposed modification does not increase the noise levels at the boundary by six (6) decibels or more under normal conditions. Proposed modification is only used during emergency power failure of the commercial power.
- 4) The installation of a new generator and attached fuel tank will not change, in any way, radio frequency (RF) emissions at the facility.
- 5) The Notice of Special Permit #SP-00-9 issued by the City of Norwich dated August 17, 2000, conforms to Section 7.5 of their Zoning Regulations to construction a 150 foot monopole multi-carrier telecommunications facility and associated equipment.

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

Best Regards,



Donna Love  
Site Acquisition Manager, exclusive agent of AT&T Mobility  
General Dynamics Wireless Services  
Mobile #315-480-5529

Enc.

Cc: City of Norwich – John L. Salomone, City Manager  
City of Norwich – Deanna Rhodes, City Planner  
City of Norwich – Richard Shuck, Zoning Official  
City of Norwich – Jim Troeger, Building Official  
Crown Castle – Paul Pedicone

ORIGINAL

Special Permit #SP-00-9

COMMISSION ON THE CITY PLAN  
CITY OF NORWICH, CONNECTICUT

NOTICE OF SPECIAL PERMIT RECORDED  
PURSUANT TO PUBLIC ACT NO. 75-317 - CONNECTICUT STATUTES

Record owner of property City of Norwich

Property recorded in Norwich Land Records Vol. 707 Page 248

Location of property 50 Clinton Avenue

DESCRIPTION: Special permit pursuant to Section 7.5 of the Zoning Regulations to construct a 150-foot monopole multi-carrier telecommunications facility and associated equipment.

Effective date of decision: Aug. 17, 2000

Peter W. Davis WS

Peter W. Davis  
Planning Director

NOT TO BE FILED WITH  
CITY CLERK BEFORE 9/2/00

RECEIVED FOR RECORD AT NORWICH, CONN.  
ON 9-5-2000 AT 10:40 AM  
Attest Beverly C. Muldoon, Town Clerk



# at&t Mobility

**SITE NAME: NORWICH WEST**  
**FA LOCATION CODE: 10071187**  
**GENERATOR PROJECT**



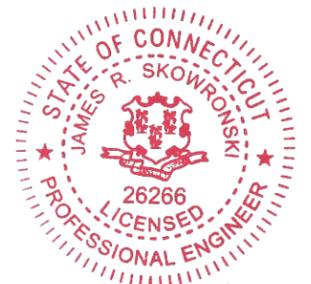
**100% EMPLOYEE-OWNED**  
855 Community Dr, Sauk City, WI 53583  
608-643-4100 www.Ramaker.com  
Sauk City, WI • Willmar, MN  
Woodcliff Lake, NJ • Bayamon, PR

PREPARED FOR:



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

*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.



*James R. Skowronski*  
Signature: \_\_\_\_\_ Date: 7/30/2019

## 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.

**DIRECTIONS:**  
CT-5352 NORWICH WEST I-95N TO EXIT 76. MAKE A LEFT ONTO I 395 TO EXIT 82. MAKE LEFT ONTO WEST TOWN RD AND FOLLOW TO SECOND LEFT CLINTON AVE. FOLLOW ROAD TO NORWICH DEPT PUBLIC UTILITY BLDG. ON YOUR LEFT. SITE LOCATED BEHIND BLDG. IF GATE IS LOCKED, GO TO FRONT OF BUILDING AND INTO OFFICE AND ASK THAT GATE AT REAR OF BUILDING BE UNLOCKED FOR ACCESS. SITE IS A GROUND LEVEL OUTDOOR CABINET CROWN CASTLE SITE. ADDRESS: 50 CLINTON AVE, NORWICH, CT 06360 ACCESS: MON- FRI 9AM - 3PM 2500 COMBO CONTACT: NDPU (NORWICH DEPT. PUBLIC UTILITY) 860 823 4161 POWER COMPANY: NDPU (NORWICH DEPT. PUBLIC UTILITY) 860 823 4161 DEMARKED: IN CABINET OUTSIDE COMPOUND FENCE. 3G CIRCUIT HCGS 699196 METER : 24 701 634 GATE COMBO 2500 CABINET COMBOS 0043

MEMBER  
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 IN THESE PLANS ARE TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

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

## AERIAL VIEW OF SITE



## PROJECT INFORMATION

**PROJECT MANAGER:**  
JOE JARVIS  
MARKET LEAD  
GENERAL DYNAMICS WIRELESS SERVICES  
661 MOORE RD STE 110  
KING OF PRUSSIA, PA 19406  
EMAIL: joseph.jarvis@gdit.com

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

**APPLICANT INFORMATION:**  
AT&T MOBILITY  
7150 STANDARD DR.  
HANOVER, MD 21076

**SITE DATA:**  
SITE NAME: NORWICH WEST  
SITE ID: 24515  
FA NUMBER: 10071187

**TOWER OWNER:**  
CROWN CASTLE  
2000 CORPORATE DRIVE  
CANONSBURG, PA 15317

**ADDRESS:**  
50 CLINTON AVENUE  
NORWICH, CT 06360

**COUNTY:** NEW LONDON

**LAT.:** 41.5553919° N  
**LONG.:** 72.1101989° W

**GROUND ELEVATION:** 105 FT AMSL

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

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

## SHEET INDEX

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S-1 FOUNDATION DETAILS  
S-2 FENCE DETAILS

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E-2 PANEL AND PENETRATION DETAILS  
E-3 ATS, CONDUIT & GROUND ROD DETAILS  
E-4 GENERAC GENERATOR SPECIFICATIONS  
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## SIGNATURE BLOCK

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

MARK	DATE	DESCRIPTION
A	7/30/19	REVISED CD's ISSUED
ISSUE PHASE	FINAL	DATE ISSUED 07/11/2019

PROJECT TITLE:  
**NORWICH WEST**  
**FA ID # 10071187**

PROJECT INFORMATION:  
50 CLINTON AVENUE  
NORWICH, CT 06360

SHEET TITLE:  
**TITLE SHEET**

SCALE: NONE

PROJECT NUMBER: 42053  
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 5'-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.
  - (2) 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.
- H-FRAME:**
- PROVIDE NEW H-FRAME IF REQUIRED, MATCH EXISTING H-FRAME MATERIAL FOR CONSTRUCTION OF NEW H-FRAME. USE ALL GALVANIZED COMPONENTS, WHITE PLASTIC END CAPS ON UNISTRUTS, WEATHER CAPS ON TOPS OF PIPE AND CONCRETE SUPPORTS BELOW FROST LINE. TOP OF FOOTING SHOULD BE AT LEAST 2" ABOVE EXISTING GROUND LEVEL. SLOPE THE GROUND AWAY FROM THE H-FRAME FOR POSITIVE WATER DRAINAGE OFF THE FORM.



**RAMAKER & ASSOCIATES, INC.**  
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PREPARED FOR:

CONSULTANT:  
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 661 MOORE RD STE 110  
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*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.



*James R. Skowronski*  
 Signature: \_\_\_\_\_ Date: 7/30/2019

MARK	DATE	DESCRIPTION
A	7/30/19	REVISED CD9 ISSUED
ISSUE PHASE	FINAL	DATE ISSUED 07/11/2019

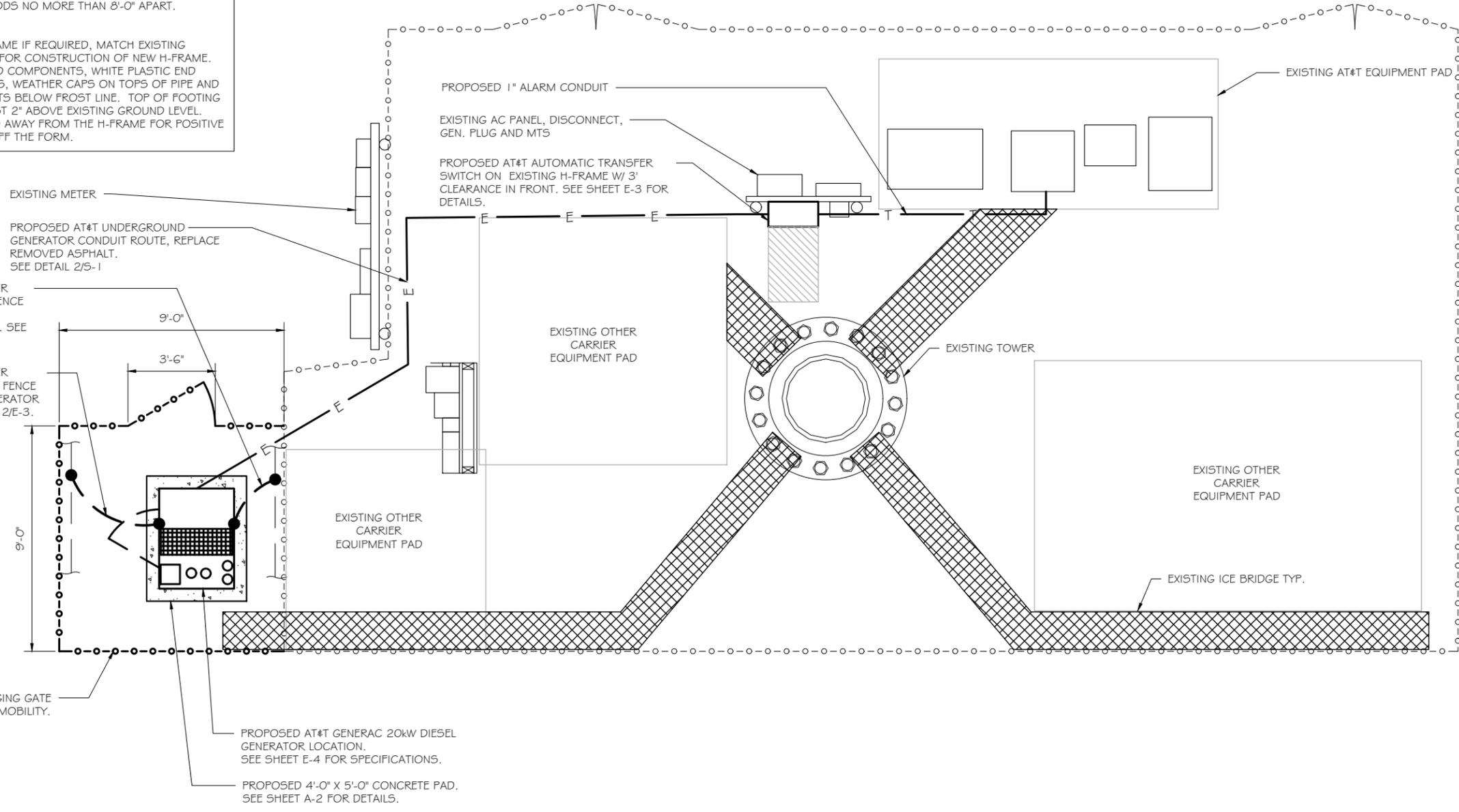
PROJECT TITLE:  
**NORWICH WEST**  
**FA ID # 10071187**

PROJECT INFORMATION:  
 50 CLINTON AVENUE  
 NORWICH, CT 06360

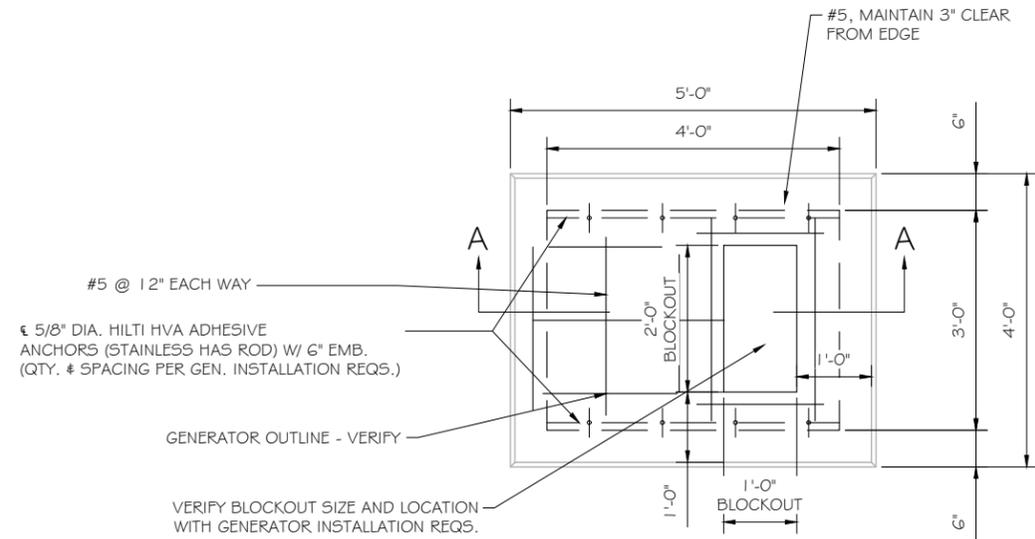
SHEET TITLE:  
**SITE PLAN & EQUIPMENT LAYOUT**

11" x 17" - 1" = 5'  
 22" x 34" - 1" = 2.5'

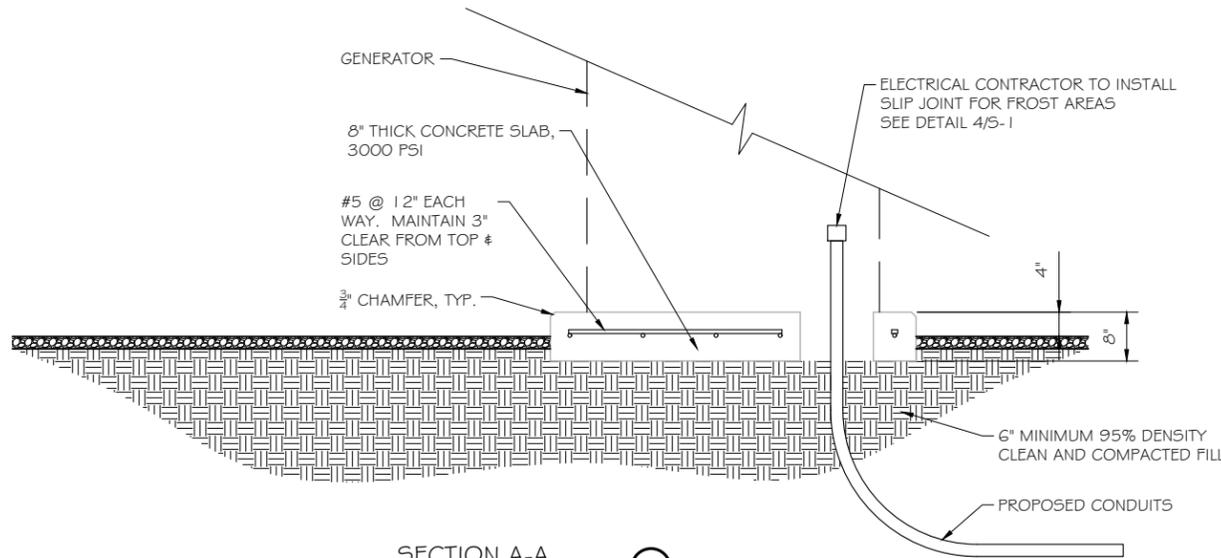
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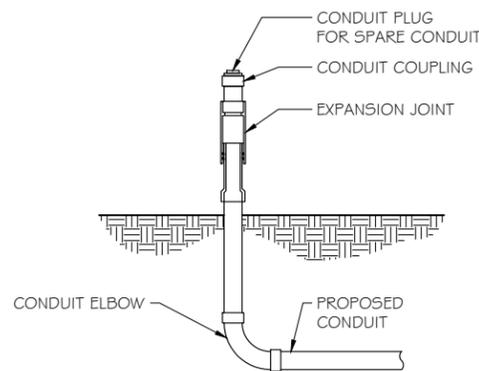
**COMPOUND PLAN**  
 SCALE: 1" = 5'-0" 1



**FOUNDATION PLAN**  
 SCALE: NTS

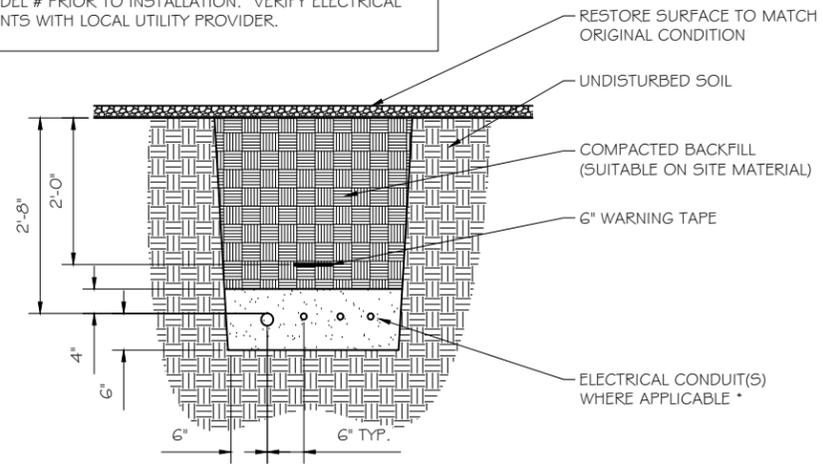


**SECTION A-A**  
 SCALE: NTS



**SLIPJOINT DETAIL**  
 SCALE: NTS

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:  
 1. 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**

- 1.0 GENERAL CONDITIONS
  - 1.1 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.
  - 1.2 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 VERIFY ALL EQUIPMENT MOUNTING DIMENSIONS PER MANUFACTURER DRAWINGS
  - 1.5 DESIGN LOADS ARE (GENERAC):
 

LIVE LOAD	: 100 PSF
EQUIPMENT SIZE	: 90" H, 36" W, 48" L
WEIGHT WITH WOODEN SHIPPING SKID ENCLOSED GENERATOR	: 2400 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:
 

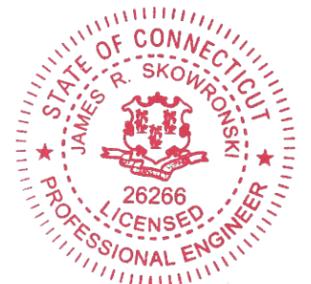
DESIGN	: ACI 318-11
CONSTRUCTION	: ACI 301
DETAILING	: CRSI MANUAL OF STANDARD PRACTICE
REINF. STEEL	: ASTM A 615 GRADE 60, DEFORMED
MIXING	: ASTM C 94. READY MIX CONCRETE
AIR ENTRAINMENT	: ACI 318 AND ASTM C-260
AGGREGATE	: ASTM C 33 AND C 330 (FOR LIGHT WEIGHT)
  - 3.2 CONCRETE STRENGTH AT 28 DAYS SHALL BE 4000 PSI MINIMUM
  - 3.3 DO NOT FIELD BEND OR WELD TO GRADE 60 REINFORCED STEEL
  - 3.4 PROVIDE AIR ENTRAINMENT 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.
- 4.0 FOUNDATION & EXCAVATION NOTES
  - 4.1 SLAB SHALL BE CONSTRUCTED UPON UNDISTURBED, NATURAL SUBGRADE OR COMPACTED GRANULAR FILL WITH AN ASSUMED MINIMUM NET ALLOWABLE BEARING CAPACITY OF 2000 PSF.
  - 4.2 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).
  - 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.

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Signature: *James R. Skowronski* Date: 7/30/2019

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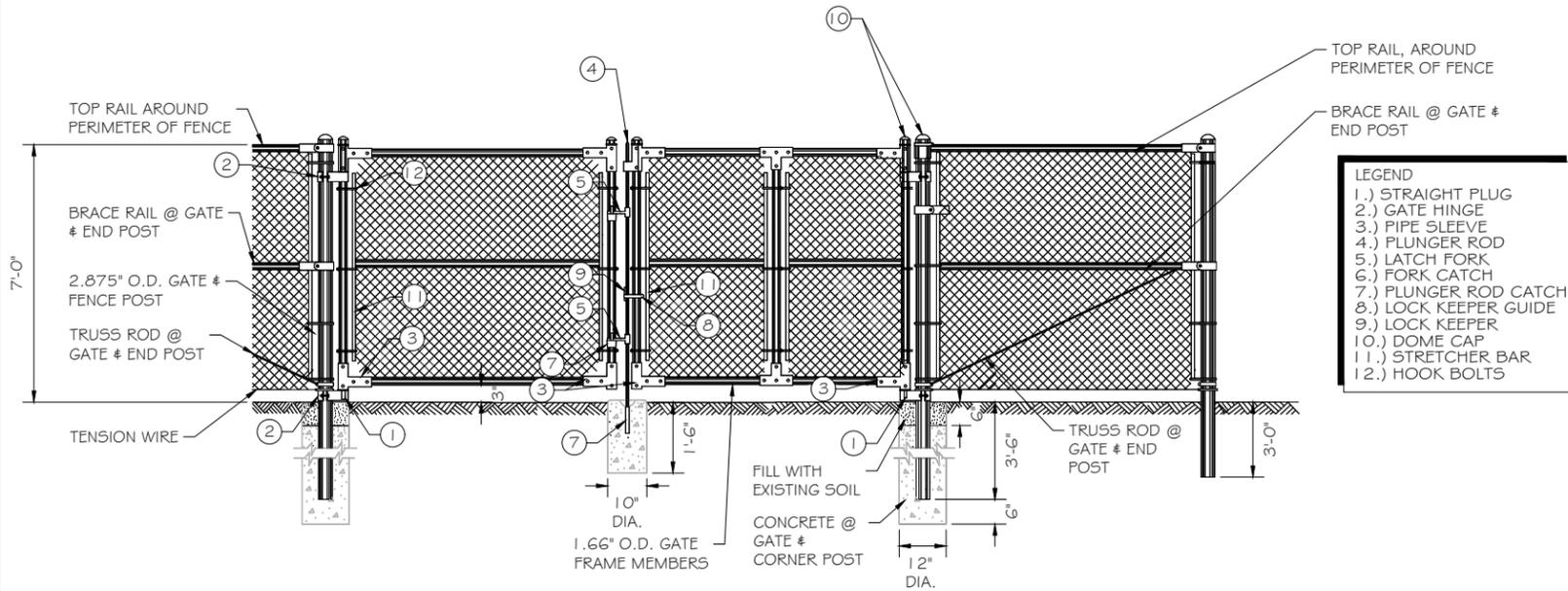
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**FA ID # 10071187**

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SHEET TITLE:  
**FOUNDATION DETAILS**

SCALE: NONE

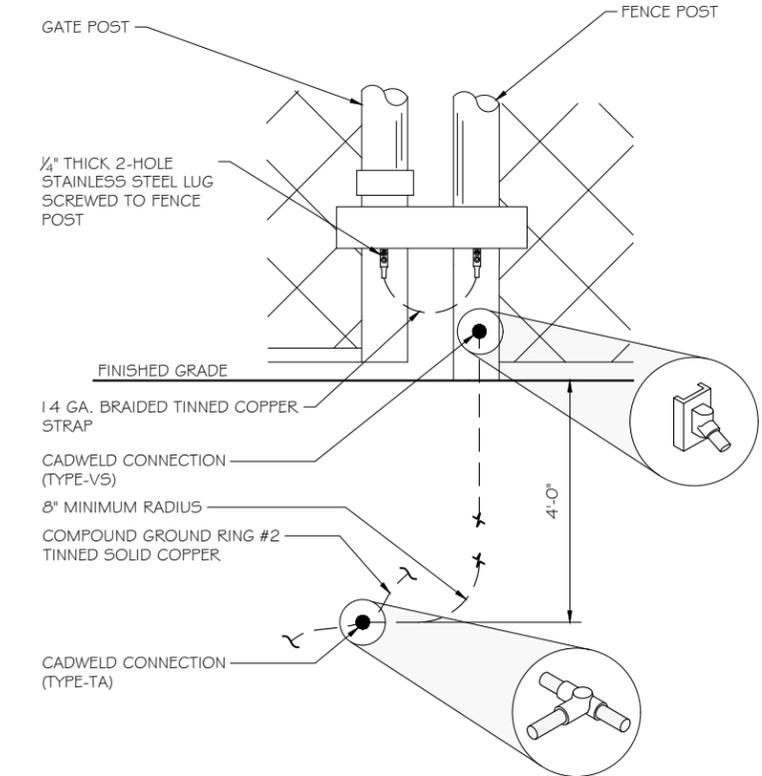
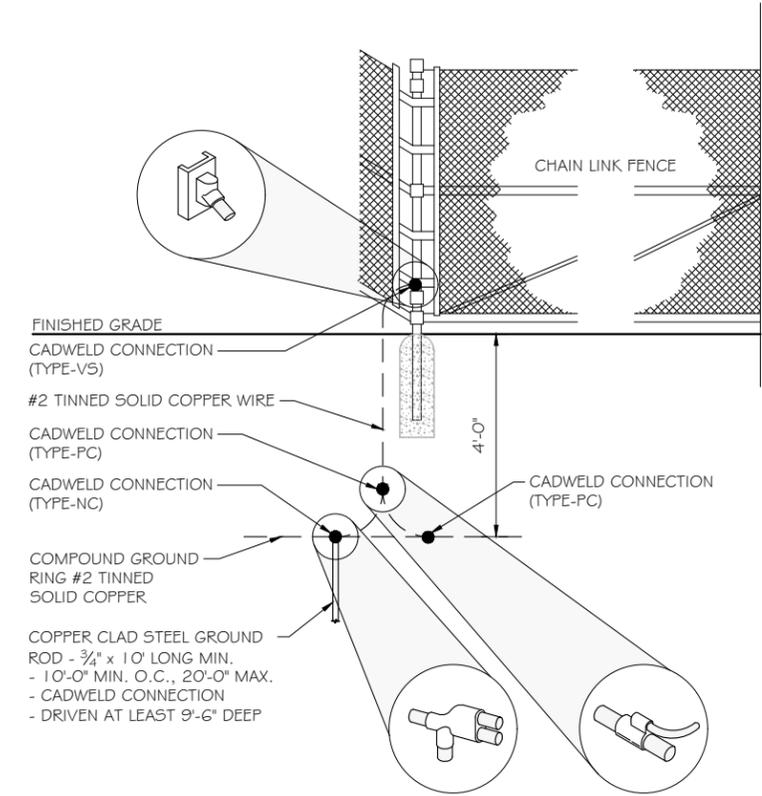
PROJECT NUMBER: 42053  
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- LEGEND**
- 1.) STRAIGHT PLUG
  - 2.) GATE HINGE
  - 3.) PIPE SLEEVE
  - 4.) PLUNGER ROD
  - 5.) LATCH FORK
  - 6.) FORK CATCH
  - 7.) PLUNGER ROD CATCH
  - 8.) LOCK KEEPER GUIDE
  - 9.) LOCK KEEPER
  - 10.) DOME CAP
  - 11.) STRETCHER BAR
  - 12.) HOOK BOLTS

- 1. SCOPE:**  
 1.1 THIS SECTION COVERS THE REQUIREMENTS FOR THE MATERIALS AND THE CONSTRUCTION OF SITE FENCING, GUY AREA FENCING, ACCESS ROAD GATES AND CATTLE GUARDS. SEE SITE PLAN AND DRAWINGS FOR DETAILS.
- 2. SPECIAL REQUIREMENTS**  
 2.1 ALL WIRE, FABRIC, FITTINGS, HARDWARE AND STEEL MEMBERS USED FOR SITE AREA FENCING, GUY ANCHOR FENCING AND ACCESS ROAD GATES SHALL BE HOT DIPPED GALVANIZED OR OTHER APPROVED NON-CORROSIVE MATERIAL.  
 2.2 ALL NON-CORROSIVE MATERIAL SHALL BE APPROVED BY THE USCC PROJECT MANAGER.  
 2.3 ANY DAMAGE TO GALVANIZING OR NON-CORROSIVE COATING DURING CONSTRUCTION SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S RECOMMENDED METHODS. USCC INSTALLATION PRACTICE:
- 3. FENCE POSTS**  
 3.1 LOCATION OF CORNER POSTS SHALL BE DETERMINED FROM STAKES AND PROPERTY PINS INSTALLED BY THE REGISTERED LAND SURVEYOR UNDER CONTRACT TO USCC. IF THE STAKES ARE NOT PRESENT OR DO NOT CONFORM TO THE SITE PLAN, CONSULT WITH THE USCC PROJECT MANAGER.  
 3.2 CORNERS AND GATE POST FOR SITE SHALL BE 2.875" O.D. GALVANIZED PIPE. UNLESS SPECIFIED OTHERWISE  
 3.3 CORNER POSTS SHALL BE SET WITHIN ONE INCH (1") OF DIMENSIONS INDICATED ON THE SITE PLAN.  
 3.4 FENCE POSTS SHALL BE VERTICALLY PLUMB IN ALL PLANES WITHIN 1/2 INCH (1/2").  
 3.5 CORNER & GATE POST FOUNDATIONS SHALL BE A MINIMUM FOUR FEET (4') DEEP OR SIX INCHES (6") BELOW THE FROST LINE, WHICHEVER IS GREATER, WITH MINIMUM SIX INCH (6") CLEARANCE BETWEEN BOTTOM OF POST AND BOTTOM OF THE HOLE.  
 3.6 CORNER POSTS AND GATE POSTS SPACING SHALL BE EQUAL WITH A TEN FOOT (10') MAXIMUM SPACING. GATE POST SPACING AND SPECIFIC LOCATIONS SHALL BE IN ACCORDANCE WITH SITE PLAN AND SHALL BE VERIFIED WITH USCC PROJECT MANAGER.  
 3.7 ALL POSTS EXCEPT GATE POSTS SHALL BE CAPPED WITH A COMBINATION CAP AND BARB WIRE SUPPORTING ARM. GATE POSTS SHALL BE TWELVE INCHES (12") HIGHER THAN CORNER OR LINE POSTS TO PROVIDE FOR TERMINATION OF BARBED WIRE. GATE POSTS SHALL BE CAPPED WITH STANDARD CAP.  
 3.8 ALL CORNER, GATE AND END PANELS SHALL HAVE MINIMUM 3/8" DIAMETER DIAGONAL TRUSS RODS WITH TUMBUCKLES. HORIZONTAL BRACE RODS, 1-1/2" INSIDE DIMENSION PIPE, SHALL BE INSTALLED BETWEEN POSTS.  
 3.9 A TOP RAIL (1-3/8" I.D.) GALVANIZED PIPE SHALL BE INSTALLED BETWEEN POSTS.  
 3.10 ALL FOUR CORNERS POSTS AND BOTH GATE POSTS SHALL BE CONNECTED TO THE SITE GROUNDING SYSTEM (REFER TO GROUNDING SYSTEM STANDARD).
- 4. FABRIC**  
 4.1 FENCE FABRIC SHALL BE SEVEN FOOT (7') HIGH, UNLESS OTHERWISE SPECIFIED, #9 GAUGE, GALVANIZED CHAIN LINK FABRIC WITH TWISTED TOP SELVAGE AND KNUCKLED BOTTOM SELVAGE. 4.2 FABRIC SHALL BE TENSIONED PER MANUFACTURER'S RECOMMENDATIONS TO PRESENT A NEAT APPEARANCE. A MAXIMUM THREE INCH (3") GAP SHALL BE PERMITTED BETWEEN FABRIC AND FINAL GRADE.  
 4.3 FABRIC SHALL BE SECURED AT CORNER AND GATE POSTS USING STRETCHER BARS AND TENSION BAND CLIPS.  
 4.4 FABRIC SHALL BE SECURED TO THE TOP RAIL AND BRACE RODS USING TIE CLIPS.  
 4.5 THREE (3) RUNS OF 4-POINT GALVANIZED BARBED WIRE SHALL BE INSTALLED ALONG TOP OF FENCE. BARBED WIRE SHALL BE TENSIONED PER MANUFACTURER'S RECOMMENDATIONS TO PRESENT A NEAT APPEARANCE.
- 5. GATE**  
 5.1 LOCATION OF GATE SHALL CONFORM TO THE SITE PLAN. GATE SIZE SHALL BE 12'-0" WIDE. UNLESS SPECIFIED OTHERWISE  
 5.2 ALL JOINTS BETWEEN TUBULAR GATE MEMBERS SHALL BE WELDED OR HEAVY FITTINGS PROVIDING RIGID AND WATERTIGHT CONNECTIONS.  
 5.3 GATE HINGES SHALL PROVIDE FOR 180 DEGREE RADIUS GATE SWING. ALL HINGE NUTS SHALL BE ON THE INSIDE AND DOUBLE-NUT TO DETER UNAUTHORIZED ENTRY.  
 5.4 GATE STOPS SHALL BE INSTALLED AND SHALL HOLD GATE IN "OPEN" POSITION.  
 5.5 BARBED WIRE GUARD SHALL BE INSTALLED ON TOP OF GATES. ADEQUATE CLEARANCE SHALL BE MAINTAINED TO ALLOW ATE OPERATION.  
 5.6 GATE SHALL BE INSTALLED PLUMB AND SHALL OPEN AND CLOSE FREELY.  
 5.7 GATE POSTS SHALL NOT BE SHARED AS A CORNER POST.  
 5.8 THE FOLLOWING GATE TYPE SHALL BE PROVIDED AND INSTALLED AS INDICATED ON THE SITE PLAN AND VERIFIED WITH THE PROJECT MANAGER.

**FENCE CONSTRUCTION DETAIL** ①  
 SCALE: NTS



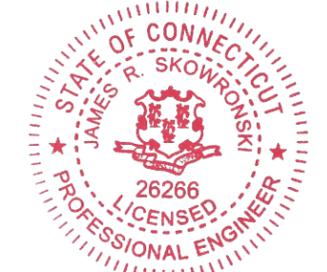
**FENCE GROUNDING DETAILS** ②  
 SCALE: NTS

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PREPARED FOR:  
**at&t**  
 Mobility

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

Certification & Seal:  
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Signature: *James R. Skowronski* Date: 7/30/2019

MARK	DATE	DESCRIPTION
A	7/30/19	REVISED CDs ISSUED

ISSUE PHASE: FINAL DATE ISSUED: 07/11/2019  
 PROJECT TITLE:  
**NORWICH WEST**  
**FA ID # 10071187**

PROJECT INFORMATION:  
 50 CLINTON AVENUE  
 NORWICH, CT 06360

SHEET TITLE:  
**FENCE DETAILS**

SCALE: NONE

PROJECT NUMBER: 42053  
 SHEET NUMBER: S-2

DIAGRAM CIRCUIT SCHEDULE

NO.	FROM	TO	WIRES	GROUND	CONDUIT SIZE	FUNCTION
1	NORMAL POWER SOURCE	AUTOMATIC TRANSFER SWITCH	(3) 3/0	(1) #4	2"	NORMAL POWER FEEDER TO ATS (CUT BACK EXISTING)
2	AUTOMATIC TRANSFER SWITCH	LOAD CENTER	(3) 3/0	(1) #4	2"	POWER FEEDER FROM ATS TO PANEL
3	GENERATOR	AUTOMATIC TRANSFER SWITCH	(3) #3	(1) #8	1 1/4"	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	ALARM BLOCK	GENERATOR	1 2-PAIR 24 AWG OR 2EA G-PAIR CAT5	N/A	1"	ALARM CABLES (1) 1 2 PAIR 24 AWG (RUN THRU INTERIOR OF SHELTER & INTO ALARM BOX. PROVIDE 24" OF SLACK CABLE. FINAL PUNCH DOWN IS BY AT&T TECH. LABEL ALL WIRES

CIRCUIT DETAIL  
 SCALE: NTS

1

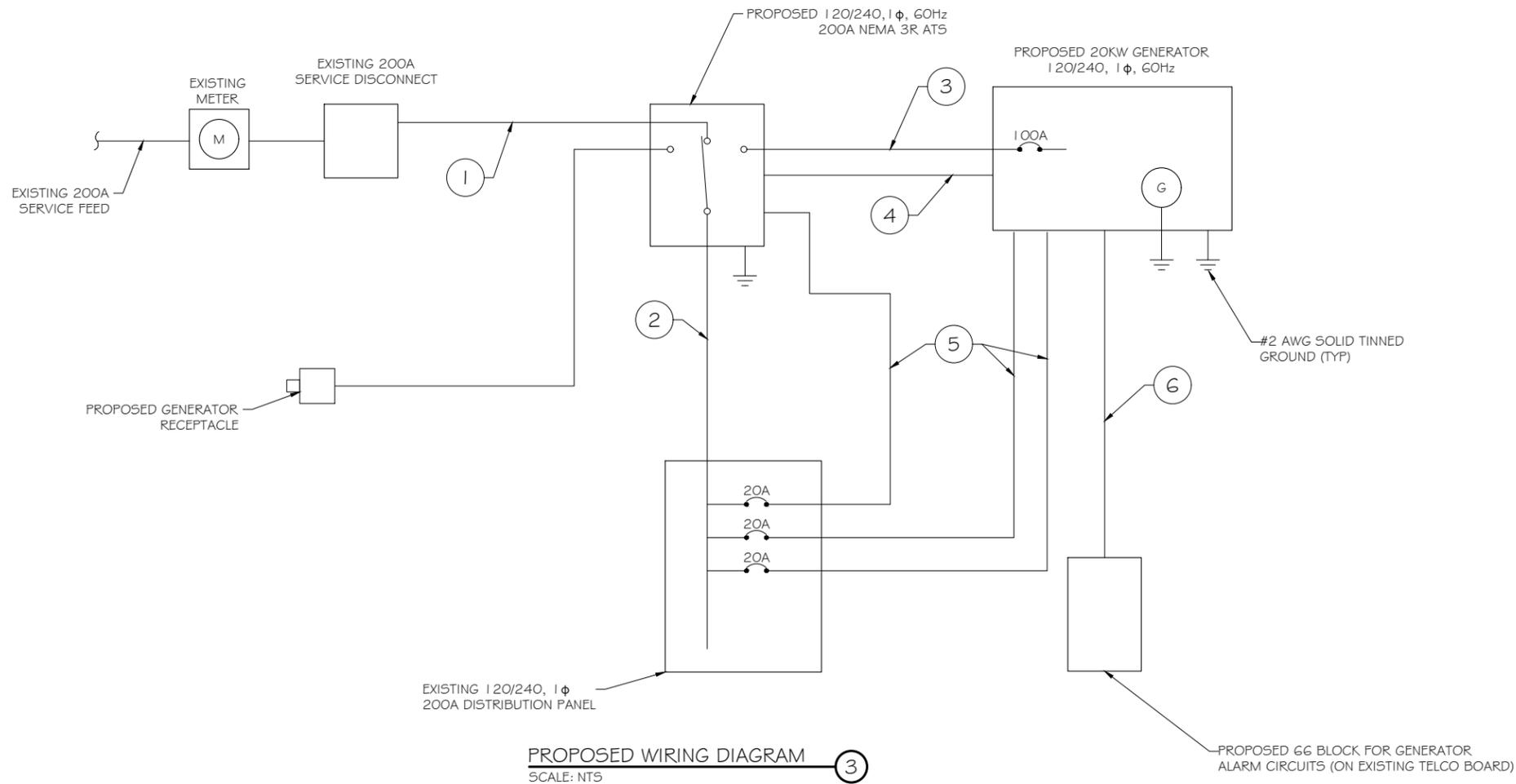
ALARM WIRE IDENTIFICATION CHART

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

2



PROPOSED WIRING DIAGRAM  
 SCALE: NTS

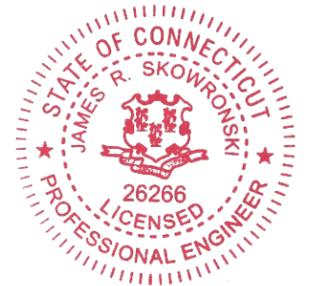
3

PREPARED FOR:



CONSULTANT:  
**GENERAL DYNAMICS**  
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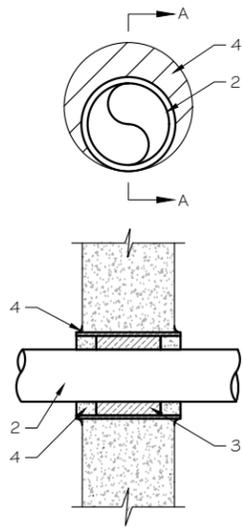
PROJECT TITLE:  
**NORWICH WEST**  
**FA ID # 10071187**

PROJECT INFORMATION:  
 50 CLINTON AVENUE  
 NORWICH, CT 06360

SHEET TITLE:  
**WIRING DETAILS**

SCALE: NONE

PROJECT NUMBER: 42053  
 SHEET NUMBER: E-1



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 (CATZ) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- THROUGH PENETRATIONS : ONE METALLIC PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE ANNULAR SPACE SHALL BE MINIMUM 0". (POINT CONTACT) TO MAXIMUM 1 -3/8". THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:
  - STEEL PIPE-NOMINAL 6" DIAMETER (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE.
  - IRON PIPE-NOMINAL 6" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.
  - CONDUIT - NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR NOMINAL 3- 1/2" DIAMETER (OR SMALLER) STEEL CONDUIT.
- PACKING MATERIAL: MINIMUM 6" THICKNESS OF MIN 4.0 PCF MINERAL WOOL BATTING INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
- FILL, VOID, OR CAVITY MATERIAL\*: SEALANT: MINIMUM 1/4" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR AND WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND CONCRETE, A MINIMUM 1/2" DIAMETER BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL. W RATING APPLIES ONLY WHEN CP6015 OR CP604 SEALANT IS USED.

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

\* BEARING THE UL CLASSIFICATION MARK

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

AC Distribution Panel - Layout Diagram									
Breaker Position	Breaker Type	On/Off	Size	Circuit Label	Breaker Position	Breaker Type	On/Off	Size	Circuit Label
1	1P	ON	15	PURCELL	2	2P	ON	30	SURGE SUPPRESSOR
3					4				
5	2P	ON	50	UMTS	6	1P	ON	40	120V POWER FOR POWER PLANT
7					8	1P	OFF	40	SPARE
9					10	1P	ON	20	ATS
11	2P	ON	50	RECT 1	12	1P	ON	20	BLOCK HEATER
13	2P	ON	50	RECT 2	14	1P	ON	20	BATTERY CHARGER
15					16				
17	2P	ON	50	RECT 3	18	1P	ON	20	LIGHT
19					20				
21	2P	ON	50	RECT 4	22				
23					24	1P	ON	20	PANEL/TELCO PLUG

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

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

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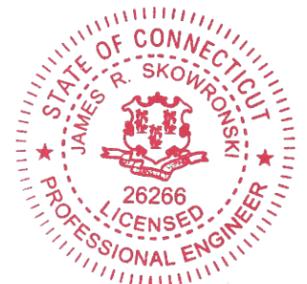
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PREPARED FOR:



CONSULTANT:  
**GENERAL DYNAMICS**  
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ISSUE PHASE	FINAL	DATE ISSUED 07/11/2019

PROJECT TITLE:  
**NORWICH WEST  
FA ID # 10071187**

PROJECT INFORMATION:  
50 CLINTON AVENUE  
NORWICH, CT 06360

SHEET TITLE:  
**PANEL AND PENETRATION  
DETAILS**

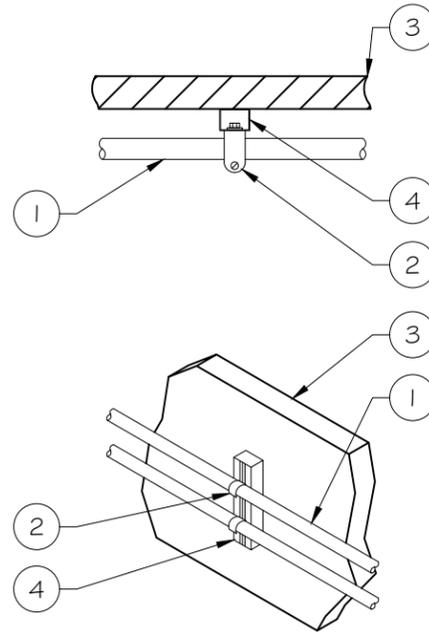
SCALE: NONE

PROJECT NUMBER 42053  
SHEET NUMBER E-2

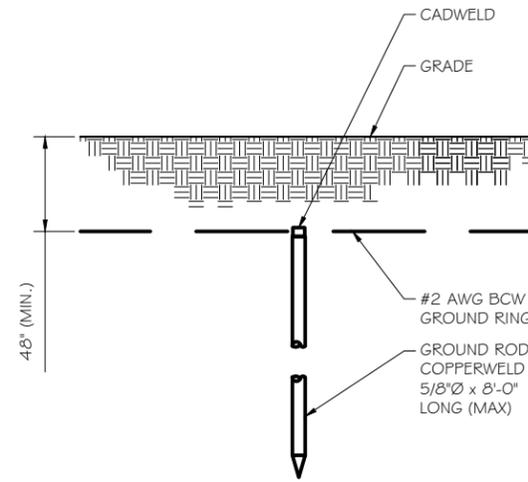
- 1 CONDUIT (TYP)
- 2 BUTTERFLY CLAMP AS REQUIRED
- 3 EXISTING WALL/CEILING
- 4 VERTICAL "UNISTRUT" P1000 T' SERIES LENGTH BASED ON NUMBER OF CONDUIT TO BE MOUNTED

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

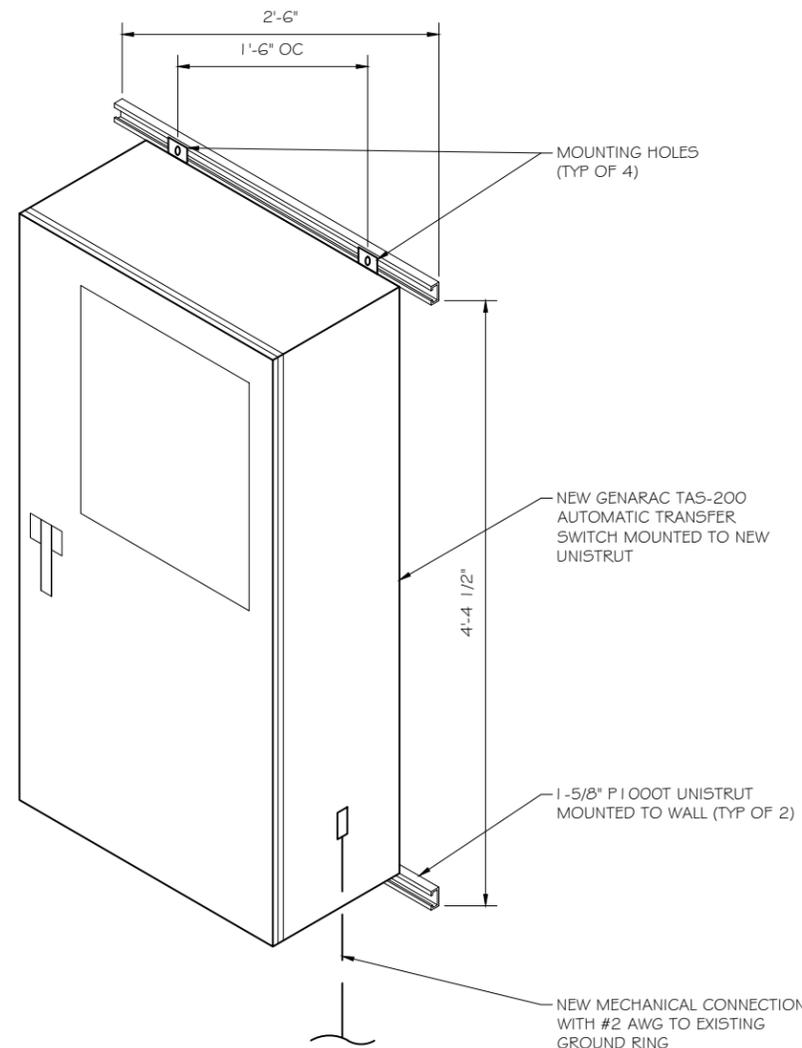


GROUND ROD DETAIL  
 SCALE: NTS

- NOTE:
- GROUND RODS MAY BE:
    - COPPER CLAD STEEL
    - SOLID COPPER
  - GROUND RODS SHALL HAVE A MAXIMUM SPACING TWICE THE LENGTH OF ROD
  - SEE RESISTIVITY REPORT FOR VERIFICATION AS AVAILABLE
  - 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 PREVENT GALVANIC CORROSION OF TOWER. (SEE ANSI/TIA-EIA-222-G)
  - PROVIDE (1) GROUND LEAD TO EACH SIDE OF THE GENERATOR

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

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



INTERSECT ATS MOUNTING DETAIL  
 SCALE: NTS

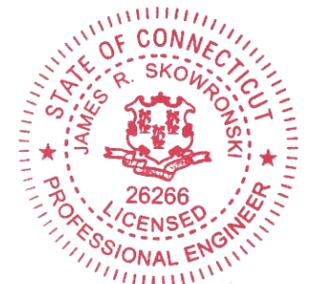
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PREPARED FOR:



CONSULTANT:  
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ISSUE PHASE: FINAL DATE ISSUED: 07/11/2019

PROJECT TITLE:  
**NORWICH WEST**  
**FA ID # 10071187**

PROJECT INFORMATION:  
 50 CLINTON AVENUE  
 NORWICH, CT 06360

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

SCALE: NONE

PROJECT NUMBER: 42053  
 SHEET NUMBER: E-3

**SDC20 | 2.5L | 20 kW - AC**  
**INDUSTRIAL DIESEL GENERATOR SET**

EPA Certified Stationary Emergency



Model G007098-0 (Steel)

**Standby Power Rating**  
20 kW AC, 60 Hz



Image used for illustration purposes only



**Codes and Standards**

Generac products are designed to the following standards:

- UL2200, UL508, UL142, UL489
- 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.

SPEC SHEET

1 of 5

**SDC20 | 2.5L | 20 kW - AC**  
**INDUSTRIAL DIESEL GENERATOR SET**

EPA Certified Stationary Emergency



Model G007098-0 (Steel)

**STANDARD FEATURES**

**ENGINE SYSTEM**

- Oil Drain Extension
- Air Cleaner with Service Indicator
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Exhaust Silencer with Drain
- Factory Filled Oil & Coolant

**Fuel System**

- Primary Fuel Filter

**Cooling System**

- 120V AC Coolant Heater
- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze
- Radiator Drain Extension

**Electrical System**

- Battery Charging Alternator
- AGM Spill Proof Battery
- Battery Cables
- Sealed/Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor
- Output Circuit Breaker

**CONTROL SYSTEM**

- Digital H Control Panel - Dual 4x20 Display
- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable PLC
- RS-232/485 Communications
- All-Phase Sensing Voltage Regulator
- Full System Status
- 2-Wire Start Compatible
- Power Output (kW)
- Power Factor
- kW Hours, Total & Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage

**MODEL OPTIONS**

**CONTROL SYSTEM**

- 21 Light Annunciator- Shipped Loose Kit and Field Installed
- External E-Stop-Shipped Loose Kit and Field Installed

**ALTERNATOR SYSTEM**

- Class H Insulation Material
- Vented Rotor
- 2/3 Pitch
- Skewed Stator
- Amortisseur Winding
- Brushless Excitation
- Sealed Bearings
- Rotor Dynamically Spin Balanced
- Full Load Capacity Alternator
- Protective Thermal Shutdown

**GENERATOR SET**

- Single Side Service
- Internal Genset Vibration Isolators
- Separation of Circuits- High/Low Voltage
- Silencer Heat Shield
- High Heat Wrapped Exhaust Piping
- Silencer Enclosed Within Generator
- 5 Year Extended Warranty
- Extended Factory Testing
- 12 Gallon System Spill Containment
- 2.5 Gallon Fuel Fill Spill Containment

- Frequency
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground Connections
- 15 Channel Data Logging
- 0.2 msec High Speed Data Logging
- Alarm Information Automatically Comes Up On the Display

**Alarms**

**ENCLOSURE**

- Aluminum Enclosure
- Extreme Cold Weather Kit - Shipped Loose Kit and Field Installed

**ENCLOSURE**

- Serviceable Items Accessible Through Lift-Off Door
- High Performance Sound-Absorbing Material
- Gasketed Door
- Stamped Air-Intake Louvers
- Single Door Latch Lockable with Key & Padlock
- Rhino Coat™ - Textured Polyester Powder Coat
- 150 MPH Wind Rating
- 36" Snow Rating

**FUEL TANK**

- UL 142 Compliant
- Double Wall Construction
- Factory Pressure Tested (5 psi)
- Rupture Basin Alarm
- Fuel Level Gauge and Sender
- Check Valve in Supply Line
- Rhino Coat™ - Textured Polyester Powder Coat
- Stainless Steel Hardware
- Integrated Fork Pockets

- Generator Run- Dry Contact
- Major Alarm- Dry Contact
- Minor Alarm- Dry Contact
- Low Fuel Alarm- Dry Contact
- Rupture Basin Alarm- Dry Contact
- Alarms & Warnings Time and Date Stamped
- Alarms & Warnings for Transient and Steady State Conditions
- Snap Shots of Key Operation Parameters During Alarms & Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)



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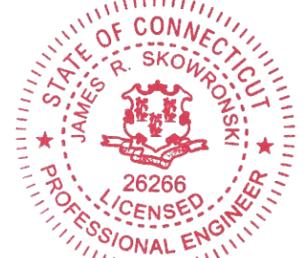
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PREPARED FOR:



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PROJECT TITLE:  
**NORWICH WEST**  
**FA ID # 10071187**

PROJECT INFORMATION:  
50 CLINTON AVENUE  
NORWICH, CT 06360

SHEET TITLE:  
**GENERAC 20KW GENERATOR SPECIFICATIONS**

SCALE: NONE

PROJECT NUMBER	42053
SHEET NUMBER	E-4

SPEC SHEET

2 of 5

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## SDC20 | 2.5L | 20 kW - AC INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

### APPLICATION AND ENGINEERING DATA

#### ENGINE SPECIFICATIONS

General		Cooling System	
Make	Mitsubishi	Cooling System Type	Forced Circulation
EPA Emissions Compliance	Interim Tier 4	Water Pump Type	Centrifugal Pump
Cylinder #	4	Fan Type	Pusher
Type	In-Line	Fan Speed (rpm)	2100
Displacement - L (Cu In)	2.5 (158)	Fan Diameter - mm (in)	431.8 (17)
Bore - mm (in)	88 (3.5)	Coolant Heater Wattage	1000
Stroke - mm (in)	103 (4.1)	Coolant Heater Voltage	120
Compression Ratio	22:1		
Intake Air Method	Naturally Aspirated		
Engine Governing		Fuel System	
Governor	Electronic Isochronous	Fuel Type	Ultra Low Sulfur Diesel #2
Frequency Regulation (Steady State)	± 0.25%	Fuel Specifications	ASTM
		Fuel Filtering (microns)	6
		Fuel Inject Pump Make	Bosch
		Injector Type	Engine Driven Gear
		Engine Type	Diesel
		Fuel Supply Line - mm (in.)	6.6 (0.26)
Lubrication System		Engine Electrical System	
Oil Pump Type	Trochoid Gear Pump	System Voltage	12 VDC
Oil Filter Type	Filtering Paper, Full Flow	Battery Charger Alternator	12V-50A
Crankcase Capacity - L (qts)	6.5 (6.9)	Battery Size	650 CCA
		Battery Group	35
		Battery Voltage	12 VDC
		Ground Polarity	Negative

#### ALTERNATOR SPECIFICATIONS

Standard Model	Mecc Alte ECP 28-2L/4	Bearings	Dual Sealed
Poles	4	Coupling	Belt, Pulley
Field Type	Revolving	Load Capacity - Standby	100%
Insulation Class - Rotor	H	Prototype Short Circuit Test	Yes
Insulation Class - Stator	H	Voltage Regulator Type	Digital
Total Harmonic Distortion	<5%	Number of Sensed Phases	All
Telephone Interference Factor (TIF)	<45	Regulation Accuracy (Steady State)	±0.5%
Standard Excitation	Brushless		

#### RATING DEFINITIONS

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

**GENERAC** INDUSTRIAL POWER  
Model G007098-0 (Steel)

SPEC SHEET

3 of 5

## SDC20 | 2.5L | 20 kW - AC INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

### OPERATING DATA

#### POWER RATINGS

Single-Phase 120/240 VAC @1.0pf Circuit Breaker Size	20 kW 100A	Amps: 83
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#### FUEL CONSUMPTION RATES\*

Percent Load	Diesel - gph (lph)	
	Standby	
25%	0.74 (2.80)	
50%	0.99 (3.75)	
75%	1.41 (5.30)	
100%	1.90 (7.19)	

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

#### COOLING

	gpm (lpm)	Standby
Coolant Flow per Minute		11.9 (45)
Coolant System Capacity	gal (L)	3.5 (13.2)
Heat Rejection to Coolant	BTU/hr	238,200
Inlet Air	cfm (m <sup>3</sup> /min)	2365 (67)
Max. Operating Ambient Temperature (Before Derate)	°F (°C)	77° (25°)
Maximum Radiator Backpressure	in H <sub>2</sub> O	0.50

#### COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power cfm (m <sup>3</sup> /min)	88 (2.49)

#### ENGINE

	Standby
Rated Engine Speed	rpm 1800
Horsepower at Rated kW**	hp 33.5
Piston Speed	ft/min 1220.47
BMEP	psi 96.5

#### EXHAUST

	Standby
Exhaust Flow (Rated Output)	cfm (m <sup>3</sup> /min) 193 (328)
Max. Backpressure (Post Silencer)	inHg (kPa) 1.38 (4.67)
Exhaust Temp (Rated Output - Post Silencer)	°F (°C) 928 (497.7)

\*\* 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 consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.

SPEC SHEET

4 of 5

**RAMAKER**  
& ASSOCIATES, INC.

100% EMPLOYEE-OWNED

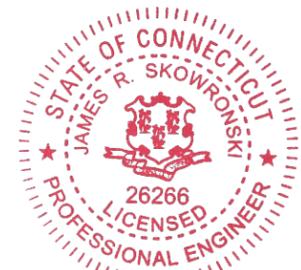
855 Community Dr, Sauk City, WI 53583  
608-643-4100 www.Ramaker.com  
Sauk City, WI • Willmar, MN  
Woodcliff Lake, NJ • Bayamon, PR

PREPARED FOR:



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

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: *James R. Skowronski* Date: 7/30/2019

MARK DATE DESCRIPTION

ISSUE PHASE FINAL DATE ISSUED 07/11/2019

PROJECT TITLE:

NORWICH WEST  
FA ID # 10071187

PROJECT INFORMATION:  
50 CLINTON AVENUE  
NORWICH, CT 06360

SHEET TITLE:  
GENERAC 20KW GENERATOR  
SPECIFICATIONS

SCALE: NONE

PROJECT NUMBER 42053  
SHEET NUMBER E-4.1

GENERAC 20KW GENERATOR SPECIFICATIONS  
SCALE: NTS

1

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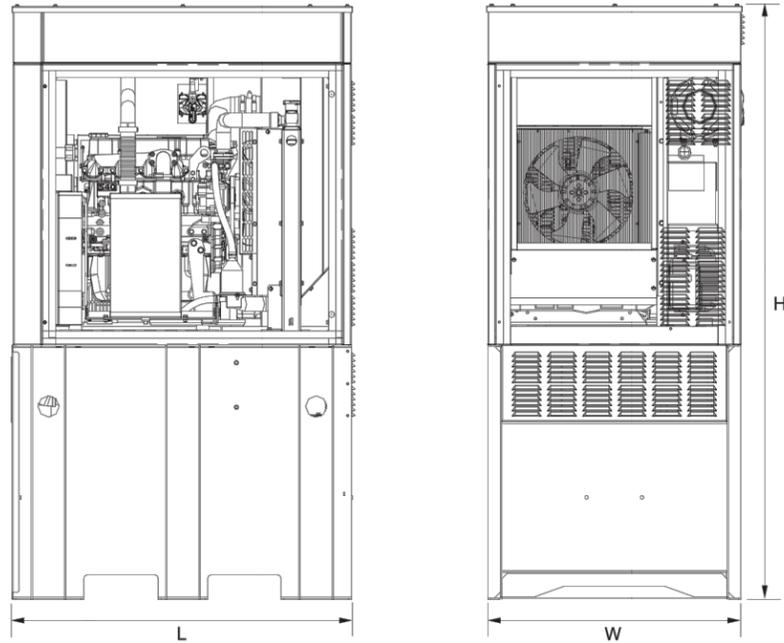
**SDC20 | 2.5L | 20 kW - AC**  
**INDUSTRIAL DIESEL GENERATOR SET**

EPA Certified Stationary Emergency

**DIMENSIONS AND WEIGHTS\***



Model G007098-0 (Steel)



**Level 2 Sound Attenuation Enclosure**

Run Time Hours	48
Usable Capacity Gal (L)	92 (348.2)
L x W x H in (mm)	48 x 36 x 90 (1219.2 x 914.4 x 2286)
Weight lbs (kg)	2400 (1089)
Sound Level	71 dBA

\* All measurements are approximate and for estimation purposes only.

**YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER**

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

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 P: (262) 544-4811 ©2016 Generac Power Systems, Inc. All rights reserved. All specifications are subject to change without notice.

Document No. 1000009019  
 Rev. WIP 11/04/16

SPEC SHEET

5 of 5

**SDC20 | 2.5L | 20 kW - AC**  
**INDUSTRIAL DIESEL GENERATOR SET**

EPA Certified Stationary Emergency



Model G007098-0 (Steel)



100% EMPLOYEE-OWNED

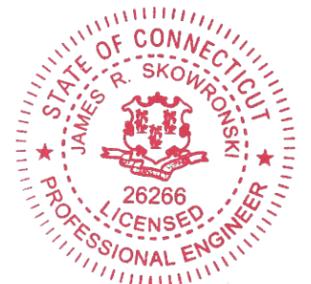
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 Woodcliff Lake, NJ • Bayamon, PR

PREPARED FOR:



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

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*James R. Skowronski* Signature: \_\_\_\_\_ Date: 7/30/2019


MARK	DATE	DESCRIPTION
A	7/30/19	REVISED CDs ISSUED

ISSUE PHASE: FINAL DATE ISSUED: 07/11/2019

PROJECT TITLE:  
**NORWICH WEST**  
**FA ID # 10071187**

PROJECT INFORMATION:  
 50 CLINTON AVENUE  
 NORWICH, CT 06360

SHEET TITLE:  
**GENERAC 20KW GENERATOR SPECIFICATIONS**

SCALE: NONE

PROJECT NUMBER: 42053  
 SHEET NUMBER: E-4.2

SPEC SHEET

6 of 5

**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:



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



NEC 700, 701 and 702



NEMA 250

**Application and Engineering Data**

Cabinet Specifications	
Dimensions	24"W x 12"D x 48"H
Weight	210 lbs.
Construction	Single Chamber with Main Door
	Steel
	UL Type / NEMA 3R Rated
	Powder Coat Finish for Corrosion Resistance
	C-UL-US Listed - Automatic Transfer Switch
Mounting Options	Stainless Steel Hardware
	3-Point Latching System with Pad-Lockable Handles
	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 DTMO4-12PA-L012
	Generator Run Alarm
Alarm Terminal Board	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



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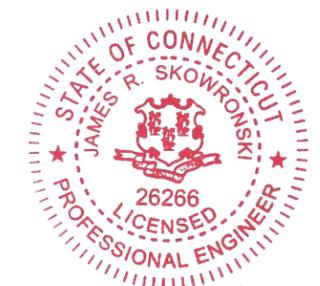
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Woodcliff Lake, NJ • Bayamon, PR

PREPARED FOR:



CONSULTANT:  
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PROJECT TITLE:  
**NORWICH WEST**  
**FA ID # 10071187**

PROJECT INFORMATION:  
50 CLINTON AVENUE  
NORWICH, CT 06360

SHEET TITLE:  
**GENERAC ATS SPECIFICATIONS**

SCALE: NONE

PROJECT NUMBER: 42053  
SHEET NUMBER: E-5

ORIGIN ID:SYRA (315) 480-5539  
DONNA LOVE  
GENERAL DYNAMICS  
8033 PRINCESS PATH

SHIP DATE: 06AUG19  
ACTWTG: 1.00 LB  
CAD: 105486753/IN/ET4160

LIVERPOOL, NY 13090  
UNITED STATES US

BILL SENDER

TO JOHN L. SALOMONE, CITY MANAGER

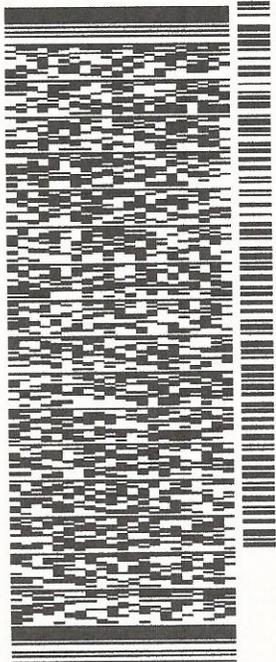
CITY OF NORWICH

CITY HALL, ROOM 219

100 BROADWAY

NORWICH CT 06360

(860) 823-3750 REF: 507406-1462 FRGT OUT H1834  
N.V. DEPT.  
P.O.



J192019062401ur

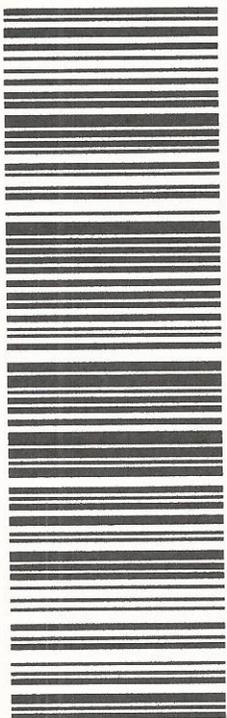
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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, 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 Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



August 6, 2019

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

Re: Notice of Exempt Modification – Emergency Backup Generator  
50 Clinton Avenue, Norwich, CT 06360

Dear Melanie,

AT&T Mobility currently maintains a wireless telecommunications facility at the above referenced address. The monopole structure and AT&T's ground equipment are surrounded by a chain link fence. AT&T currently does not maintain a generator at this cell site.

In an effort to further enhance the network reliability, AT&T intends to modify its facility by installing a new 20KW diesel fueled generator in a designated 4' x 5' lease area which will be a 9' x 9' extension of the existing fenced compound that Crown Castle has existing leasehold rights to. The proposed generator will be placed on a 4' x 5' concrete pad. Construction Drawings are attached and approved by Crown Castle.

Please accept this letter as notification pursuant to R.C.S.A. Section 16-50j-73, for construction that constitutes modification pursuant to R.C.S.A Section 16-50j-72(b)(2). In accordance with R.C.S.A Section 16-50j-73, a copy of this submission is being sent to the City of Norwich – John L. Salamone - Town Manager, the City of Norwich – Deanna Rhodes, City Planner, City of Norwich – Richard Shuck, Zoning Official, City of Norwich – Jim Troeger, Building Official, and the tower owner – Crown Castle. Evidence of notifications are attached hereto.

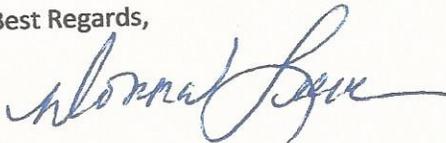
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- 5) The Notice of Special Permit #SP-00-9 issued by the City of Norwich dated August 17, 2000, conforms to Section 7.5 of their Zoning Regulations to construction a 150 foot monopole multi-carrier telecommunications facility and associated equipment.

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

Best Regards,



Donna Love  
Site Acquisition Manager, exclusive agent of AT&T Mobility  
General Dynamics Wireless Services  
Mobile #315-480-5529

Enc.

Cc: City of Norwich – John L. Salomone, City Manager  
City of Norwich – Deanna Rhodes, City Planner  
City of Norwich – Richard Shuck, Zoning Official  
City of Norwich – Jim Troeger, Building Official  
Crown Castle – Paul Pedicone

ORIGIN ID:SYRA (315) 480-5539  
DONNA LOVE  
GENERAL DYNAMICS  
8053 PRINCESS PATH

LIVERPOOL, NY 13090  
UNITED STATES US

SHIP DATE: 06AUG19  
ACTWGT: 1.00 LB  
CAD: 105486753INNET4160  
BILL SENDER

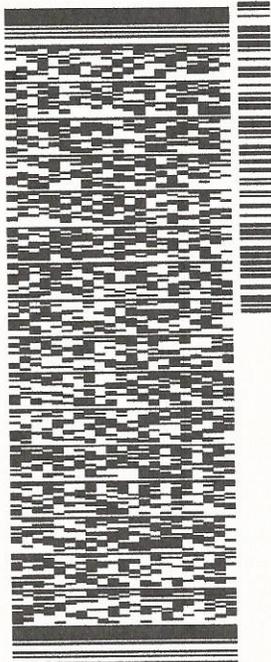
TO DEANNA RHODES, CITY PLANNER

CITY OF NORWICH  
CITY HALL

100 BROADWAY

NORWICH CT 06360

(860) 823-3775 REF: 507406-1462 FRGT OUT H1834  
INV: DEPT:  
PO:



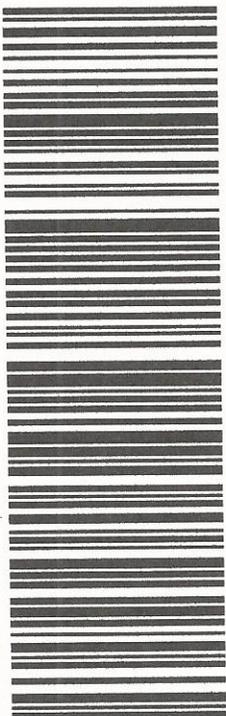
WED - 07 AUG 3:00P

STANDARD OVERNIGHT

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0201

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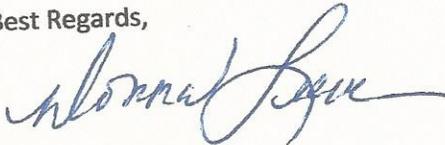
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Site Acquisition Manager, exclusive agent of AT&T Mobility  
General Dynamics Wireless Services  
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Enc.

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ORIGIN ID:SYRA (315) 480-5539  
DONNA LOVE  
GENERAL DYNAMICS  
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LIVERPOOL, NY 13090  
UNITED STATES US

SHIP DATE: 06AUG19  
ACTWGT: 1.00 LB  
CAD: 105486753/NET4160  
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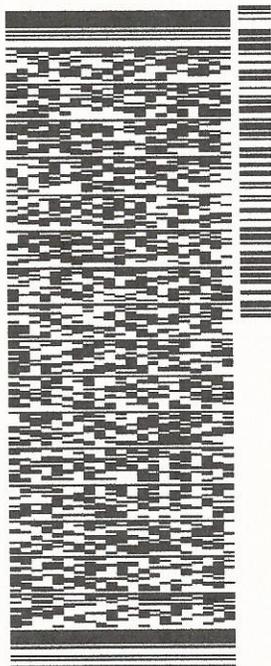
TO RICHARD SHUCK, ZONING OFFICIAL

CITY OF NORWICH  
CITY HALL

100 BROADWAY

NORWICH CT 06360

(860) 823-3745 REF: 507406-1462 FRGT OUT H1894  
INV: DEPT:  
PO:



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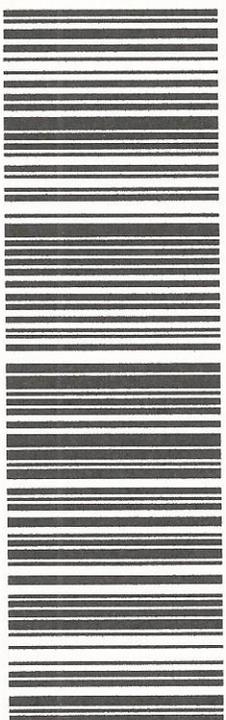
WED - 07 AUG 3:00P

STANDARD OVERNIGHT

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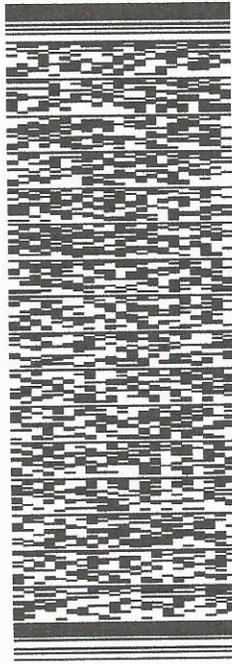
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LIVERPOOL, NY 13090  
UNITED STATES US

SHIP DATE: 06AUG19  
ACTWGT: 1.00 LB  
CAD: 105486753IN/ET4160  
BILL SENDER

TO **JIM TROEGER, BUILDING OFFICIAL**  
CITY OF NORWICH  
CITY HALL  
100 BROADWAY  
NORWICH CT 06360

REF: 507406-1462 FRGT OUT H1834  
DEPT.  
PO: (860) 823-3775



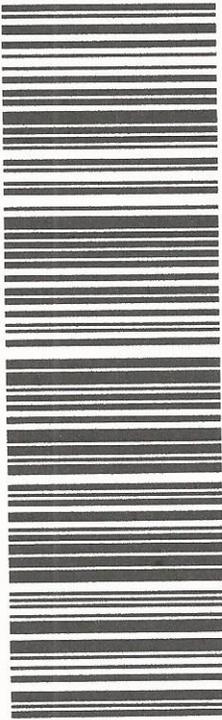
567J3/E9E7A05A2

TRK# 7759 1853 6281  
0201

WED - 07 AUG 3:00P  
STANDARD OVERNIGHT

**EB SKKA**

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CT-US BDL



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**GENERAL DYNAMICS**  
Wireless Services

August 6, 2019

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

Re: Notice of Exempt Modification – Emergency Backup Generator  
50 Clinton Avenue, Norwich, CT 06360

Dear Melanie,

AT&T Mobility currently maintains a wireless telecommunications facility at the above referenced address. The monopole structure and AT&T's ground equipment are surrounded by a chain link fence. AT&T currently does not maintain a generator at this cell site.

In an effort to further enhance the network reliability, AT&T intends to modify its facility by installing a new 20KW diesel fueled generator in a designated 4' x 5' lease area which will be a 9' x 9' extension of the existing fenced compound that Crown Castle has existing leasehold rights to. The proposed generator will be placed on a 4' x 5' concrete pad. Construction Drawings are attached and approved by Crown Castle.

Please accept this letter as notification pursuant to R.C.S.A. Section 16-50j-73, for construction that constitutes modification pursuant to R.C.S.A Section 16-50j-72(b)(2). In accordance with R.C.S.A Section 16-50j-73, a copy of this submission is being sent to the City of Norwich – John L. Salamone - Town Manager, the City of Norwich – Deanna Rhodes, City Planner, City of Norwich – Richard Shuck, Zoning Official, City of Norwich – Jim Troeger, Building Official, and the tower owner – Crown Castle. Evidence of notifications are attached hereto.

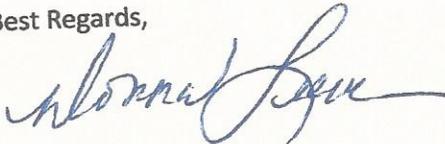
**AT&T's proposed Wireless Modifications Constitute An "Exempt Modification"**

The proposed modification to the above mentioned Facility constitutes an exempt modification of an existing facility provided for R.C.S.A Section 16-50j-72(b)(2) and Council regulations promulgated pursuant thereto.

- 1) The proposed modification will not result in an increase in the height of the existing tower.
- 2) The generator and attached fuel tank will remain entirely within the limits of Crown's leased area. The modifications therefore, will not require the extension of the existing boundary, however will increase the existing compound by 18 square feet to accommodate the backup emergency generator
- 3) The proposed modification does not increase the noise levels at the boundary by six (6) decibels or more under normal conditions. Proposed modification is only used during emergency power failure of the commercial power.
- 4) The installation of a new generator and attached fuel tank will not change, in any way, radio frequency (RF) emissions at the facility.
- 5) The Notice of Special Permit #SP-00-9 issued by the City of Norwich dated August 17, 2000, conforms to Section 7.5 of their Zoning Regulations to construction a 150 foot monopole multi-carrier telecommunications facility and associated equipment.

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

Best Regards,



Donna Love  
Site Acquisition Manager, exclusive agent of AT&T Mobility  
General Dynamics Wireless Services  
Mobile #315-480-5529

Enc.

Cc: City of Norwich – John L. Salomone, City Manager  
City of Norwich – Deanna Rhodes, City Planner  
City of Norwich – Richard Shuck, Zoning Official  
City of Norwich – Jim Troeger, Building Official  
Crown Castle – Paul Pedicone

ORIGIN ID:SYRA (315) 480-5539  
DONNA LOVE  
GENERAL DYNAMICS  
8033 PRINCESS PATH

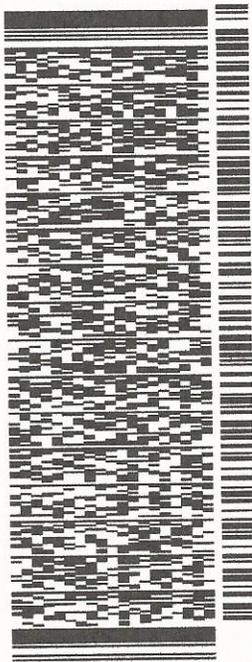
LIVERPOOL, NY 13090  
UNITED STATES US

SHIP DATE: 06AUG19  
ACTWGT: 1.00 LB  
CAD: 105486753/IN/ET4160  
BILL SENDER

TO PAUL PEDICONE  
CROWN CASTLE  
3 CORPORATE PARK DRIVE

CLIFTON PARK NY 12065

(518) 373-3547 REF: 507406-1462 FRGT OUT H1834  
INV. DEPT.  
PO.



J192019062401uv

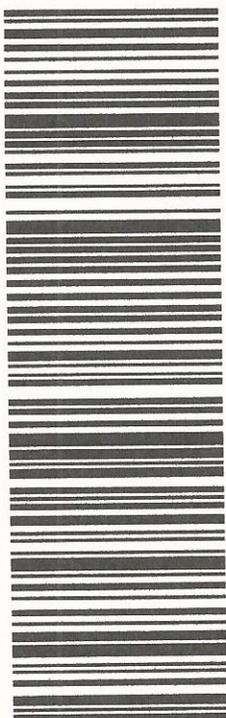
567 J3/E9E7/05A2

TRK# 7759 1894 0620  
0201

WED - 07 AUG 3:00P  
STANDARD OVERNIGHT

EIGFLA

12065  
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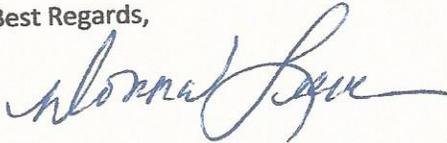
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