



Matt Burke

16 Chestnut Street, Suite 220  
Foxboro, MA 02035  
Tel (508) 930-0974  
Fax (774) 215-5423

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

Re: **Notice of Exempt Modification - Emergency Backup Generator  
60 Adams St., Manchester, CT 06040 (FA# 10035244)**

Dear Ms. Bachman:

American Telephone and Telegraph Company ("AT&T") currently maintains a wireless telecommunications facility at the above referenced address. AT&T's facility consists of antennas at the 125' level of an existing 140' tower and a 12' x 26' equipment shelter. The tower and AT&T's shelter are located within an existing, fenced-in compound area. The shelter houses AT&T's equipment and space for a back-up generator. AT&T does not currently maintain a generator at this cell site.

In an effort to further enhance multiple tenants' network reliability, AT&T intends to modify its facility by installing a new diesel-fueled generator outside in a designated 4' x 8' ground space. The generator incorporates a built-in fuel tank as part of the unit. The diesel fuel tanks are double walled for added safety and will be filled by a licensed fuel filling company. The proposed modification will remain within the existing, fenced-in compound. The new generator and tank will be surrounded by a security fence and gate and will be placed on a 4' x 8' concrete pad. (See Facility Compound Plan attached).

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 Town of Manchester. A copy of this submission is also being sent to Pom-Pom Gali, LLC, the property owner on which the tower is located.

### **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 in 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 the leased area. The modifications therefore, will not require the extension of the boundary.
- 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.
- 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 facility has received all municipal zoning approvals and building permits. (Regs., Conn. State Agencies Section 16-50j-72))

For all the foregoing reasons, American Telephone and Telegraph Company 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)

Respectfully submitted,

**Matt Burke 508.930.0974**

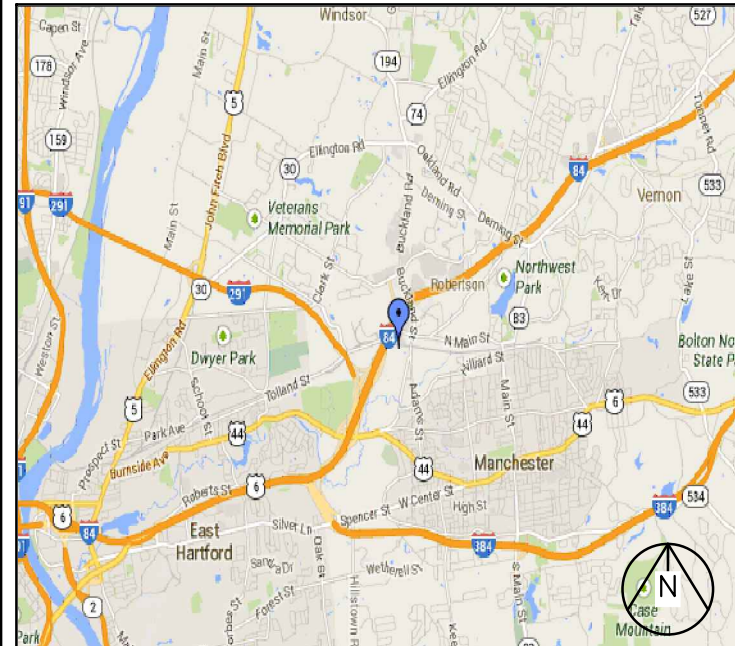
On behalf of AT&T

c/o Tower Resource Management, Inc.  
16 Chestnut Street, Suite 220  
Foxboro, MA 02035

cc: **Town of Manchester, CT**  
Pom-Pom Gali, LLC

Exhibit 1

Site Plan



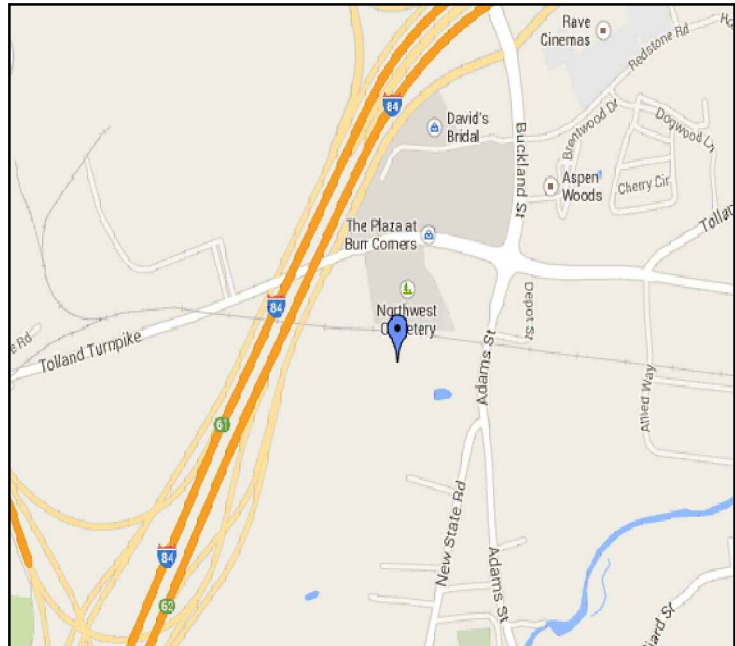
VICINITY MAP



# BACKUP POWER PROJECT

## SITE IDENTIFICATION:

**SITE NUMBER: 10035244**  
**SITE NAME: MANCHESTER SAND GRAVEL**  
  
 SITE ADDRESS: 60 ADAMS STREET  
 MANCHESTER, CT 06040



LOCAL MAP

**NOTE:**  
 CONTRACTOR TO VERIFY EXISTING MUX LOCATION. IF MUX LOCATION IS OUTSIDE OF AT&T EQUIPMENT AREA, CONTRACTOR IS TO FIELD VERIFY THE PRESENCE OF EMERGENCY BACK-UP SERVICE TO THE MUX. IF EMERGENCY BACK-UP SERVICE IS NOT PRESENT, CONTRACTOR IS TO ROUTE NEW SERVICE FROM AT&T EQUIPMENT AREA

## PROJECT DESCRIPTION:

**THE PROPOSED PROJECT INCLUDES PLACING A 50 KW GENERATOR IN AN EXISTING CELLULAR TOWER COMPOUND.**



Know what's below.  
 Call before you dig.

**PROJECT TEAM**

**CUSTOMER REPRESENTATIVE:**  
 PEGGY POOR  
 SABRE INDUSTRIES  
 MARKET LEAD - AT&T NE GENERATOR PROGRAM  
 13010 MORRIS ROAD, 6TH FLOOR, BLDG 1  
 ALPHARETTA, GA 30004  
 CELL 770-990-0137  
 ppoor@sabreindustries.com

**LANDLORD:**  
 MARINER TOWERS II  
 PO BOX 2600,  
 KENNEBUNKPORT, ME

**GROUND OWNER:**  
 MARINER TOWERS II  
 PO BOX 2600,  
 KENNEBUNKPORT ME

**UTILITIES:**  
**POWER COMPANY:**  
 NAME: NORTHEAST UTILITIES

**PROJECT SUMMARY**

**GEOGRAPHIC COORDINATES:**  
 LATITUDE: 41° 47' 38.6" N (41.794056 N)  
 LONGITUDE: -72° 33' 19.3" W (-72.555361 W)  
 GROUND ELEVATION: N/A

**CODE BLOCK:**  
 BUILDING CODE: 2009 INTERNATIONAL BUILDING CODE

**AT&T OPS FOR POWER CUT OVER:**  
 NEED 24 HOUR NOTICE  
 TO OPEN A TAP TICKET  
 DIAL: 1-800-638-2822  
 SELECT OPTION 1, THEN OPTION 2

**PROJECT NOTES**

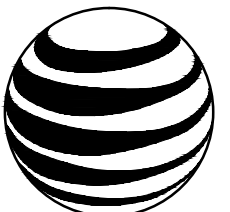
1. THE FACILITY IS UNMANNED.
2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.
3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.
4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.
5. HANDICAP ACCESS IS NOT REQUIRED.

**PROJECT LOCATION DIRECTIONS**

FROM ROCKY HILL, CT: MERGE ONTO I-91 N VIA THE RAMP ON THE LEFT TOWARD HARTFORD. 7.8 MILES MERGE ONTO CT-15 N VIA EXIT 29 TOWARD I-84 / EAST HARTFORD / BOSTON. 2.1 MILES CT-15 N BECOMES I-84 E. 3.9 MILES TAKE THE BUCKLAND STREET EXIT- EXIT 62. 1.0 MILES TURN RIGHT ONTO BUCKLAND ST. 0.3 MILES STAY STRAIGHT TO GO ONTO ADAMS ST. 0.1 MILES END AT 60 ADAMS ST, MANCHESTER, CT 06042.

**SHEET INDEX**

SHT NO:	DESCRIPTION:	REV:	DATE:	BY:
T-1	TITLE SHEET, VICINITY MAP AND GENERAL INFORMATION	0	01-06-14	AS
A-1	SITE PLAN	0	01-06-14	AS
A-2	CONCRETE PAD DETAILS	0	01-06-14	AS
E-1	WIRING DIAGRAM & H-FRAME LAYOUT	0	01-06-14	AS
E-2	ELECTRICAL DETAILS	0	01-06-14	AS
G-1	COMPOUND GROUNDING	0	01-06-14	AS
	GENERATOR ASSEMBLY AND INSTALLATION SUPPLEMENT			



**at&t**

500 ENTERPRISE DRIVE, SUITE 3A  
 ROCKY HILL, CT 06067

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE THE EXCLUSIVE PROPERTY OF AT&T. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AT&T OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AT&T WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AT&T OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AT&T.

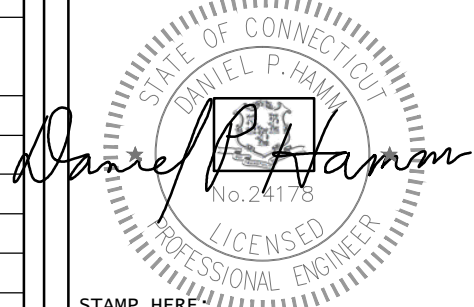


1600 OSGOOD STREET  
 BUILDING 20 NORTH, SUITE 3090  
 N. ANDOVER, MA 01845  
 TEL: (978) 557-5553  
 FAX: (978) 336-5586

SITE NUMBER:  
**10035244**

SITE NAME:  
**MANCHESTER SAND GRAVEL**

SITE ADDRESS:  
 60 ADAMS STREET  
 MANCHESTER, CT 06040



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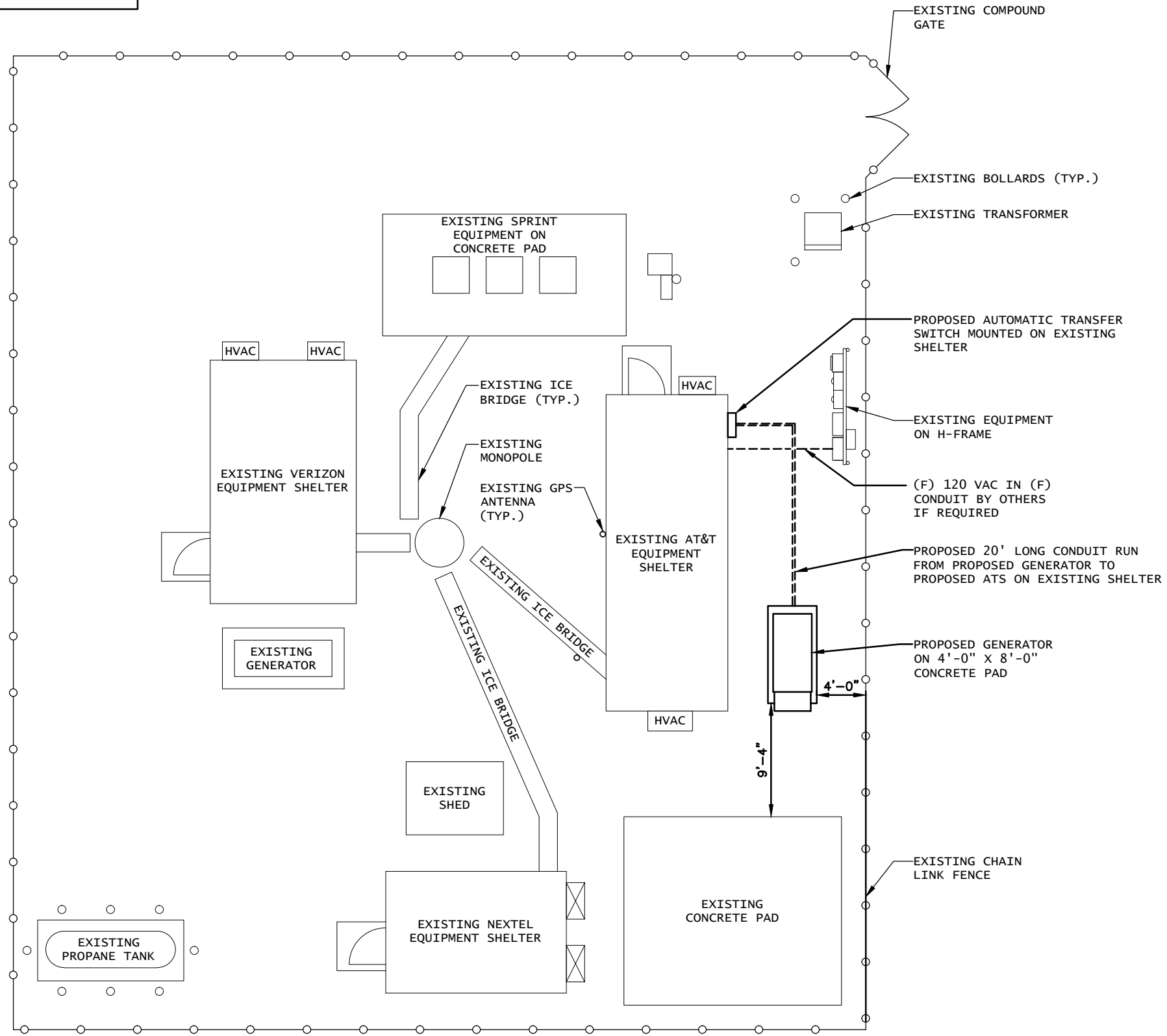
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 DATE DRAWN: 01-06-14  
 JOB NO: 1080.01

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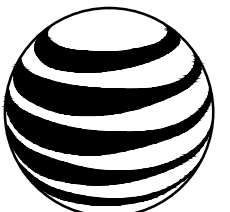
TITLE SHEET  
 VICINITY MAP  
 AND GENERAL  
 INFORMATION

SHEET NUMBER: T-1  
 REV. #: 0

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1 SITE PLAN  
 SCALE: 3/32" = 1'-0" (11"x17")  
 3/16" = 1'-0" (24"x36")



at&t  
 500 ENTERPRISE DRIVE, SUITE 3A  
 ROCKY HILL, CT 06067

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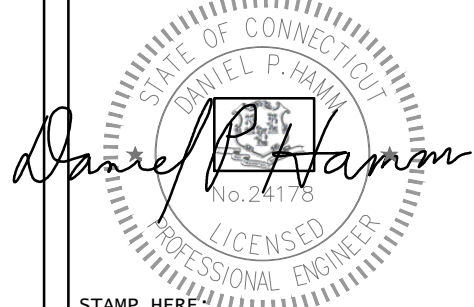


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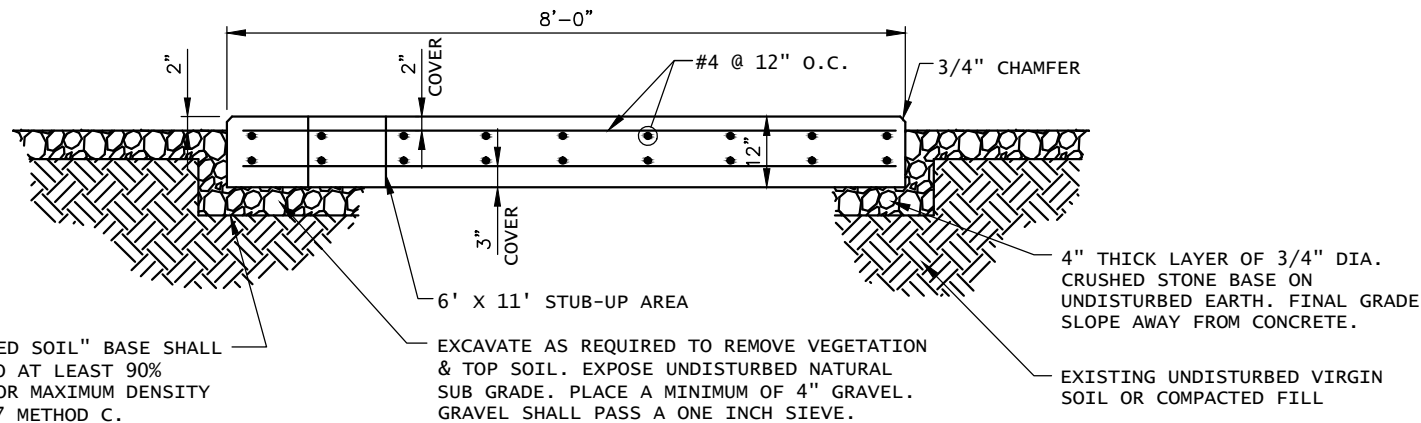
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SHEET TITLE:  
 SITE PLAN

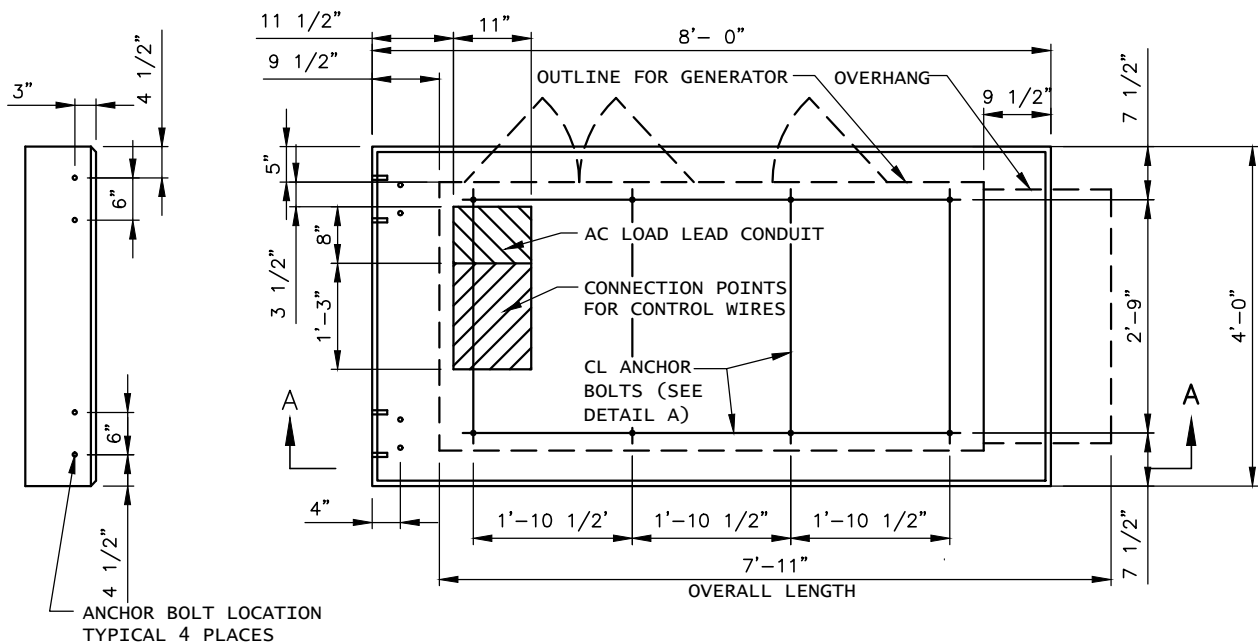
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THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.

SECTION A-A



PLAN VIEW

CONCRETE SLAB (GENERATOR FOUNDATION)

CONCRETE AND REINFORCING STEEL NOTES:

- ALL CONCRETE CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE (ACI 318-95) BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND (ACI 301) STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACIW301, ACIW318, ASTM A184 AND ASTM A185.
- MINIMUM ALLOWABLE CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH THE AMERICAN SOCIETY FOR TESTING AND MATERIALS METHODS STANDARDS ASTM C172, ASTM C31 AND ASTM C39 UNLESS NOTED OTHERWISE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDING WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL FABRIC UNLESS NOTE OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNLESS NOTED OTHERWISE.
- DETAILING SHALL BE ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCED CONCRETE STRUCTURES (ACI STD-315-92).
- CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4" IN ACCORDANCE WITH ACI 301 SECTION 4.2.2 UNLESS OTHERWISE NOTED.
- REINFORCING STEEL SHALL BE IN ACCURATELY PLACED AND ADEQUATELY SECURED IN POSITION. LOCATION OF REINFORCEMENT SHALL BE INDICATED ON THE DRAWINGS. CONCRETE COVER SHALL BE 3" MINIMUM.
- TOP OF FOUNDATION TO HAVE A "BRUSH FINISH".
- EXPOSED FINISHED SURFACE IS NOT TO HOLD WATER.
- ALL SURFACES ARE TO BE CLEANED OF ANY RESIDUAL CONCRETE FROM SPLASHING OR SPILLS.

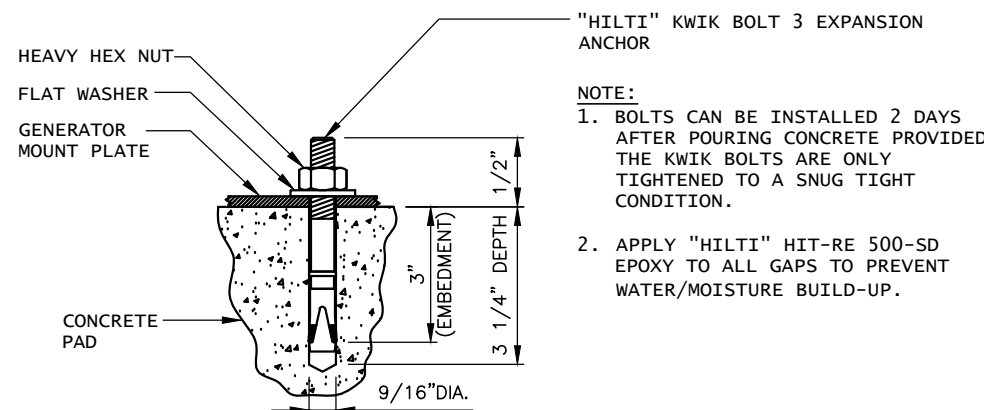
SOIL COMPACTION NOTES FOR SLAB ON GRADE:

- EXCAVATE AS REQUIRED TO REMOVE VEGETATION & TOPSOIL, EXPOSE UNDISTURBED NATURAL SUB GRADE AND PLACE CRUSHED STONE AS REQUIRED.
- COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEO TECHNICAL OR ENGINEER IS ACCEPTABLE.
- AS AN ALTERNATIVE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.
- COMPACTED SUB BASE SHALL BE UNIFORM & LEVELED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 3" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING 1" SIEVE.
- AS AN ALTERNATIVE TO ITEMS 2 AND 3 PROOF ROLL THE SUB GRADE SOILS WITH 5 PASSES OF A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPR 30/38) OR HAND-OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS BOMAG BW 55E). ANY SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADED GRANULAR FILL AND COMPACTED AS STATED ABOVE.

COMPACTION EQUIPMENT:

- HAND OPERATED DOUBLE DRUM, VIBRATORY ROLLER, VIBRATORY PLATE COMPACTOR OR JUMPING JACK COMPACTOR.

MATERIALS LIST (FOR ONE CONCRETE PAD)						
QTY REQ'D.	SIZE	TOTAL LENGTH	TOTAL WEIGHT (LBS)	TYPE	BENDING DIAGRAM	
					DIMENSION	
20	1/2"	4 1/2" LONG WITH 2 7/8" THREAD	-	"HILTI" KWIK BOLT 3 EXPANSION ANCHOR	A= 4 1/2"	
12	#4	9'-9 1/2"	78	STRAIGHT	A= 9'-9 1/2"	
18	#4	7'-9 1/2"	94		A= 7'-9 1/2"	
4	#4	7'-9 3/8"	214		A= 7'-9 3/8"	
6	#4	2'-7 1/2"	11		A= 2'-7 1/2"	
4	#4	0'-5 5/8"	2		A= 0'-5 5/8"	
STANDARD REBAR SIZES & WEIGHTS						
BAR NO	LBS PER FT.	DIA. INCHES	GRADE			
4	.6676	.500	60			



DETAIL A

- NOTE:
- BOLTS CAN BE INSTALLED 2 DAYS AFTER POURING CONCRETE PROVIDED THE KWIK BOLTS ARE ONLY TIGHTENED TO A SNUG TIGHT CONDITION.
  - APPLY "HILTI" HIT-RE 500-SD EPOXY TO ALL GAPS TO PREVENT WATER/MOISTURE BUILD-UP.

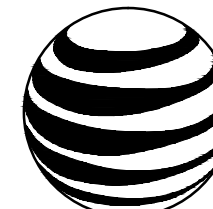
\* FOR REFERENCE. TO BE USED FOR INSTALLATION OF KWIK BOLT EXPANSION ANCHORS FOR 50KW GENERATORS.

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DESIGN

- MAXIMUM DESIGN BASIC WIND SPEED(3-SECOND GUST):  
135 MPH FOR GENERATOR MODELS SD050 AND SD080.  
115 MPH FOR GENERATOR MODELS SD130 AND SD150.

8' X 4' POURED IN PLACE GENERATOR PAD



at&t

500 ENTERPRISE DRIVE, SUITE 3A  
ROCKY HILL, CT 06067

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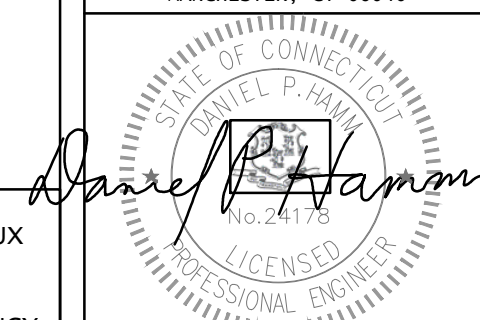


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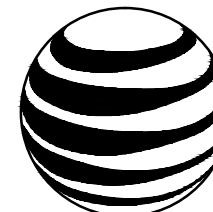
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CONCRETE PAD DETAIL

SHEET NUMBER: A-2  
REV. #: 0



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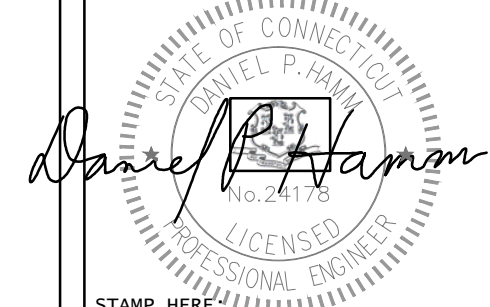


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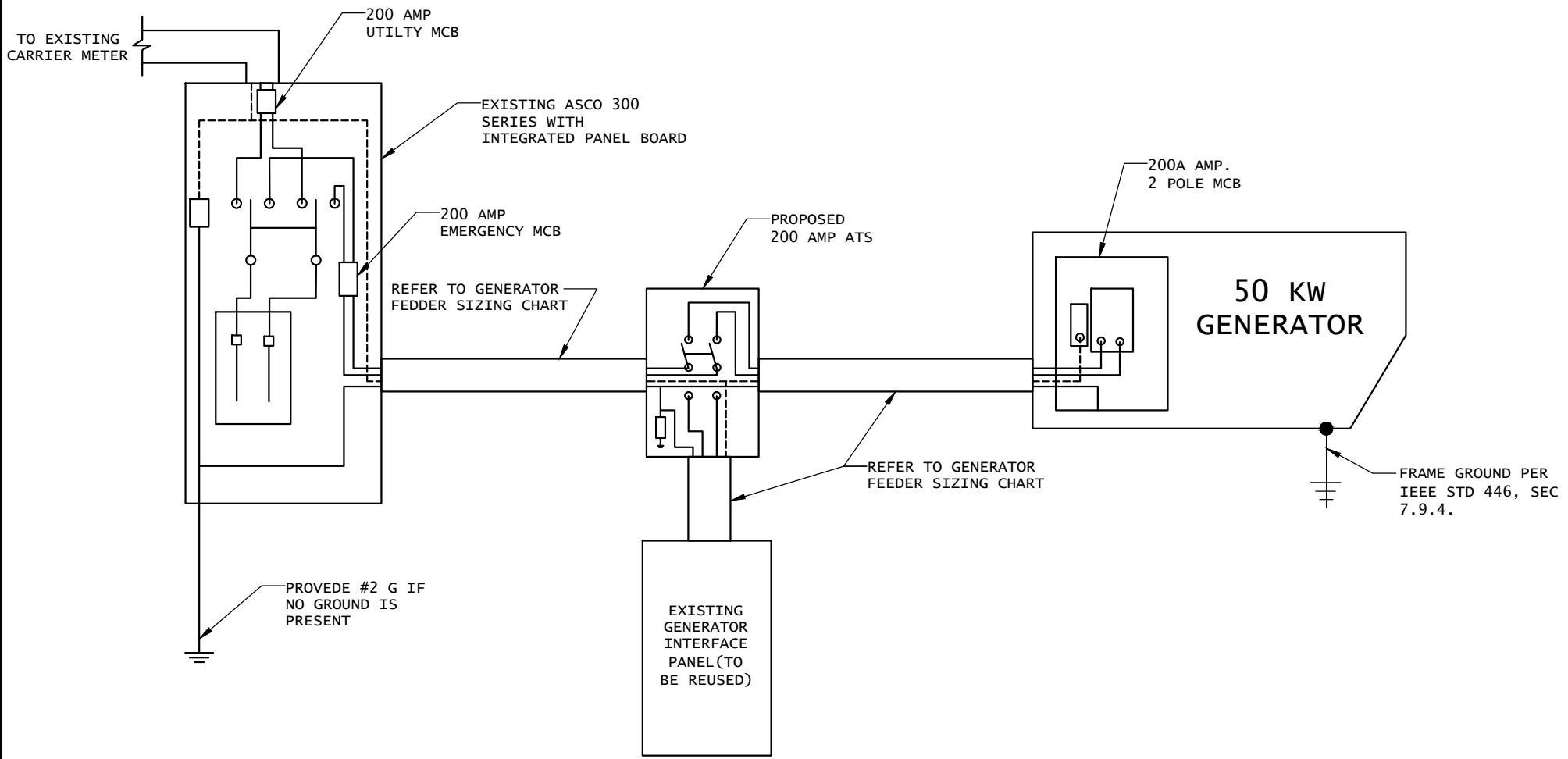
**WIRING  
DIAGRAM  
& H-FRAME  
LAYOUT**

SHEET NUMBER:	REV. #
<b>E-1</b>	<b>0</b>

**NOTES:**

1. ALL UNDERGROUND CABLE TO BE BURIED AT 36" MIN. SHIELD TAPED AT 12" AND STUBBED OUT OF GROUND IN SCH 40 PVC CONDUIT.
2. LOW VOLTAGE CONTROL WIRE PROVIDED BY MONITORING PROVIDER IN SEPARATE 1/2" CONDUIT FROM ATS TO GENERATOR.
3. BTS SITES: THE TENANT CONTRACTOR TO COMPLETE CUSTOMER ELECTRICAL CONDUIT TO CUSTOMER METER PER STANDARD COLLOCATION INSTALL.
4. TENANT CONTRACTOR HAS NOTHING TO INSTALL OR COMPLETE FOR GEN DURING CUSTOMER COLLOCATION ON TOWER.
5. GEN INSTALL IS COMPLETED AFTER CUSTOMER TOWER COLLOCATION IS COMPLETE WITH LOAD ON CUSTOMER METER.
6. ALL CONDUCTORS ARE SIZED FOR COPPER, BUT ALUMINUM CONDUCTORS ARE ALLOWED FOR FEEDERS PROVIDED THEY ARE UPSIZED PER NEC TABLE 310.16.
7. ALL ELECTRICAL WORK SHALL BE PER THE NATIONAL ELECTRICAL CODE (NFPA 70) AND ALL APPLICABLE LOCAL CODES.
8. MAINTAIN 36" CLEAR WORKSPACE IN FRONT OF METER, TRANSFER SWITCH, GENERATOR, PANELS ETC.
9. 800A PANEL HAS A COMMON NEUTRAL BUS. NEUTRALS BACK TO THE METER ARE SIZED ACCORDING TO THE DISTRIBUTION PANEL BRANCH BREAKER RATING. NEUTRAL IS BONDED AT THE PRIMARY SERVICE MAIN BONDING JUMPER ONLY.
10. GENERATOR CONTROLS AND SENSORS SHALL HAVE GFCI SENSING CAPABILITY PER NEC 700-6(D).

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**1 SINGLE CARRIER WIRING DIAGRAM**  
SCALE: NTS

**FEEDER SIZING CHART FOR GENERATOR**

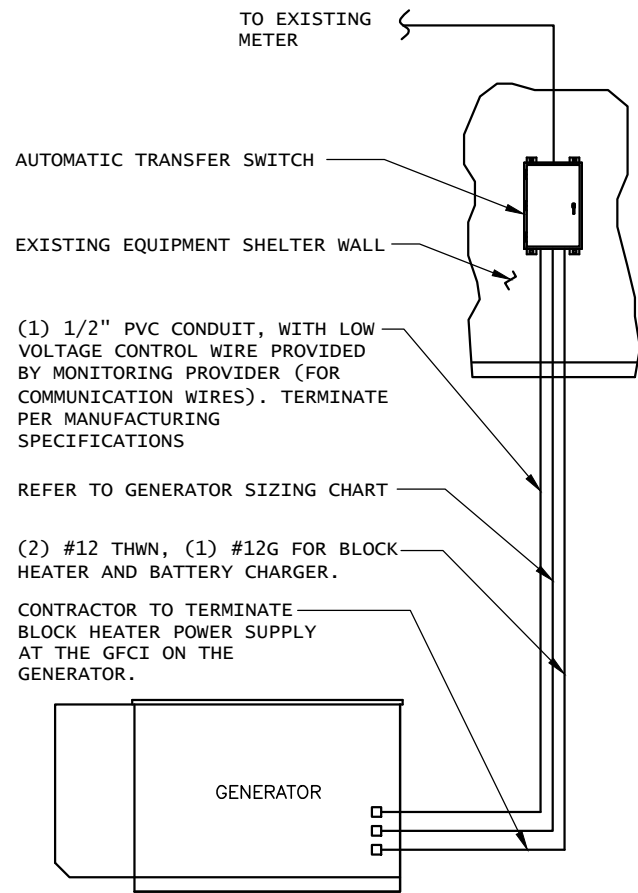
GEN SET SIZE	VOLTS-PHASE	PRIME RATING KW-AMPS	SIZE OF INLINE BREAKER (AT GENERATOR)	MAIN BREAKER SIZE SERVING ANCHOR TENANT:	FEEDER SIZES FROM GEN SET BREAKER TO ATS.
50 KW	120/240V - 1-PH	48KW - 200A	200A	200A 2-P C/B INTEGRAL TO GEN SET.	3#3/0, 1#6G, IN 2" C

**NOTES:**

1. SERVICE VOLTAGE IS 120/240 1-PHASE, AND SERVICE SIZES ARE TYPICAL 220A.
2. AUTOMATIC TRANSFER SWITCH (ATS) ARE 200A, 2-POLES, 120/240V 1-PHASE WITH SOLID NEUTRAL.
3. ALL EXTERIOR ELECTRICAL EQUIPMENT IS NEMA 3R RATED.
4. THE GENERATOR ELECTRICAL LOADS ARE ADEQUATE FOR THE CONNECTED LOADS.
5. ALL EQUIPMENT FURNISHED SHALL BE PROVIDED WITH EQUIPMENT RATED TO WITHSTAND FAULT CURRENT AVAILABLE AT PROJECT SITE.
6. ALL WIRE AND PANEL BUSSING SHALL BE COPPER UNLESS ALLOWED ELSEWHERE IN THIS DOCUMENT SET, WIRE SIZES ARE BASED ON COPPER.
7. ALL WORK SHALL CONFORM WITH THE CURRENT VERSION OF THE NEC AND ALL OTHER APPLICABLE CODES.
8. FIRST OVER-CURRENT PROTECTION DEVICE IS INTEGRAL TO GENERATOR. FEEDER SIZES INDICATED IN TABLE ABOVE ARE DOWNSTREAM OF THE FIRST OVER-CURRENT PROTECTION DEVICE.
9. INLINE BREAKER AT GENERATOR IS FACTORY INSTALLED, AND IS THE MANUFACTURERS RECOMMENDED SIZE.

**2 GENERATOR SET SIZING CHART**  
SCALE: NTS

NOTE: UTILITY POWER FEEDS SHALL BE CONNECTED TO THE TRANSFER SWITCH FROM THE LOAD SIDE OF THE EXISTING SERVICE DISCONNECT. NO MODIFICATIONS SHALL BE MADE ON THE LINE SIDE OF THE EXISTING SERVICE DISCONNECT.



(1) 1/2" PVC CONDUIT, WITH LOW VOLTAGE CONTROL WIRE PROVIDED BY MONITORING PROVIDER (FOR COMMUNICATION WIRES). TERMINATE PER MANUFACTURING SPECIFICATIONS

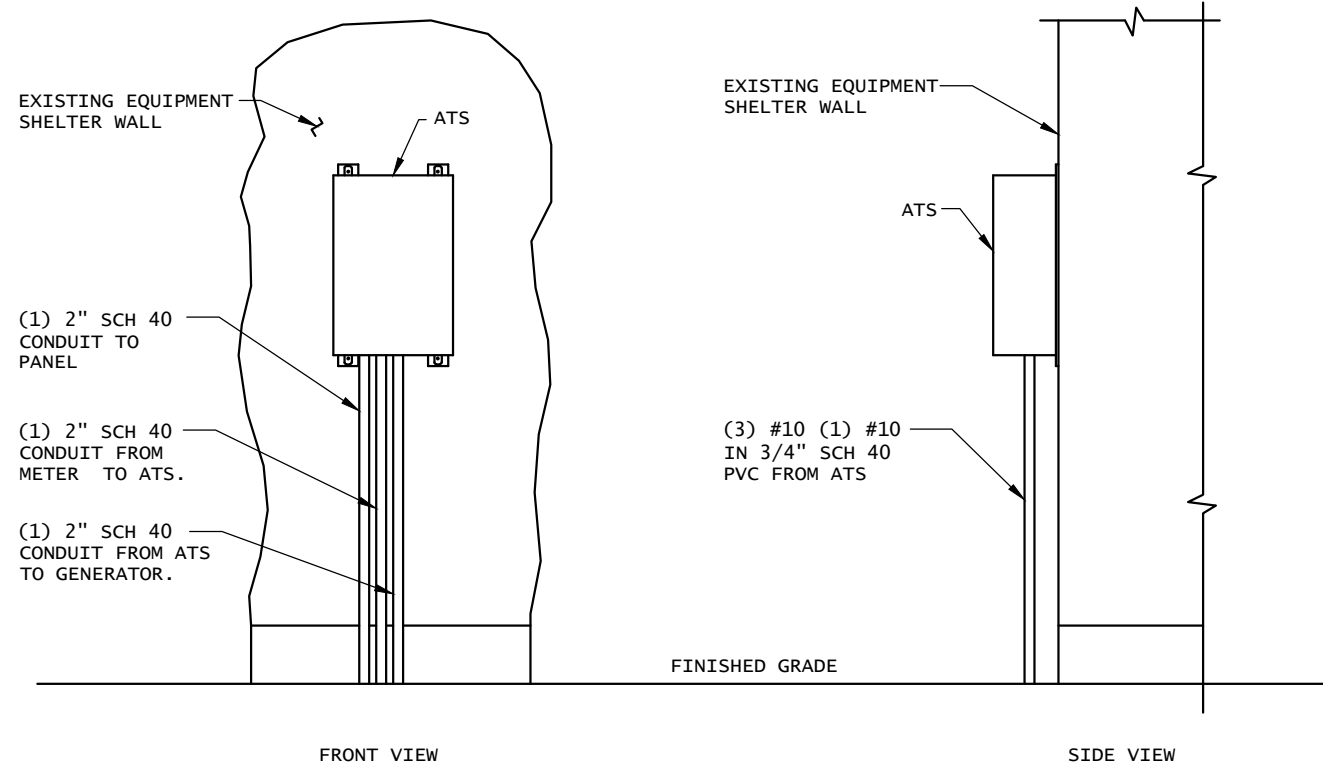
REFER TO GENERATOR SIZING CHART

(2) #12 THWN, (1) #12G FOR BLOCK HEATER AND BATTERY CHARGER.

CONTRACTOR TO TERMINATE BLOCK HEATER POWER SUPPLY AT THE GFCI ON THE GENERATOR.

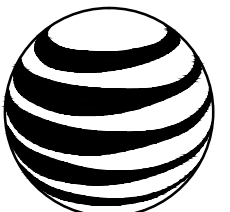
DISCONNECT POWER FEED FROM EXISTING METER TO EXISTING SHELTER. ROUTE NEW FEEDERS (SIZED BELOW) FROM METER TO NEW TRANSFER SWITCH AND BACK. RECONNECT NEW RETURN FEED FROM TRANSFER SWITCH TO SUPPLY POWER (UTILITY AND BACK-UP POWER) TO EXISTING SHELTER.

1 METER CONFIGURATION  
SCALE: NTS



2 AUTOMATIC TRANSFER SWITCH LAYOUT  
SCALE: NOT TO SCALE

NOTE:  
CONTRACTOR TO VERIFY EXISTING MUX LOCATION. IF MUX LOCATION IS OUTSIDE OF AT&T EQUIPMENT AREA, CONTRACTOR IS TO FIELD VERIFY THE PRESENCE OF EMERGENCY BACK-UP SERVICE TO THE MUX. IF EMERGENCY BACK-UP SERVICE IS NOT PRESENT, CONTRACTOR IS TO ROUTE NEW SERVICE FROM AT&T EQUIPMENT AREA



**at&t**  
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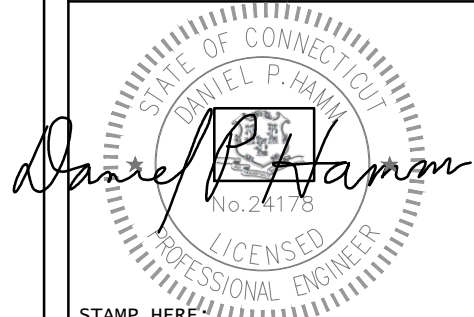


1600 OSGOOD STREET  
BUILDING 20 NORTH, SUITE 3090  
N. ANDOVER, MA 01845  
TEL: (978) 557-5553  
FAX: (978) 336-5586

SITE NUMBER:  
**10035244**

SITE NAME:  
**MANCHESTER SAND GRAVEL**

SITE ADDRESS:  
60 ADAMS STREET  
MANCHESTER, CT 06040



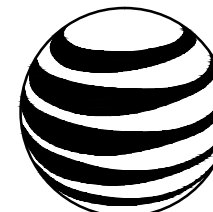
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CHECKED BY:	SB
DATE DRAWN:	01-06-14
JOB NO:	1080.01

SHEET TITLE:  
**ELECTRICAL  
DETAILS**

SHEET NUMBER: <b>E-2</b>	REV. # <b>0</b>
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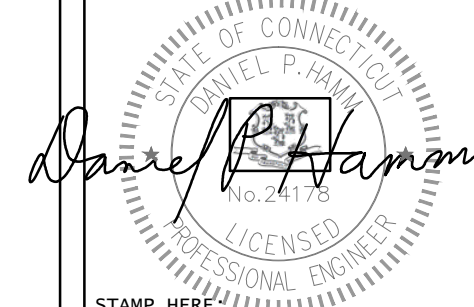


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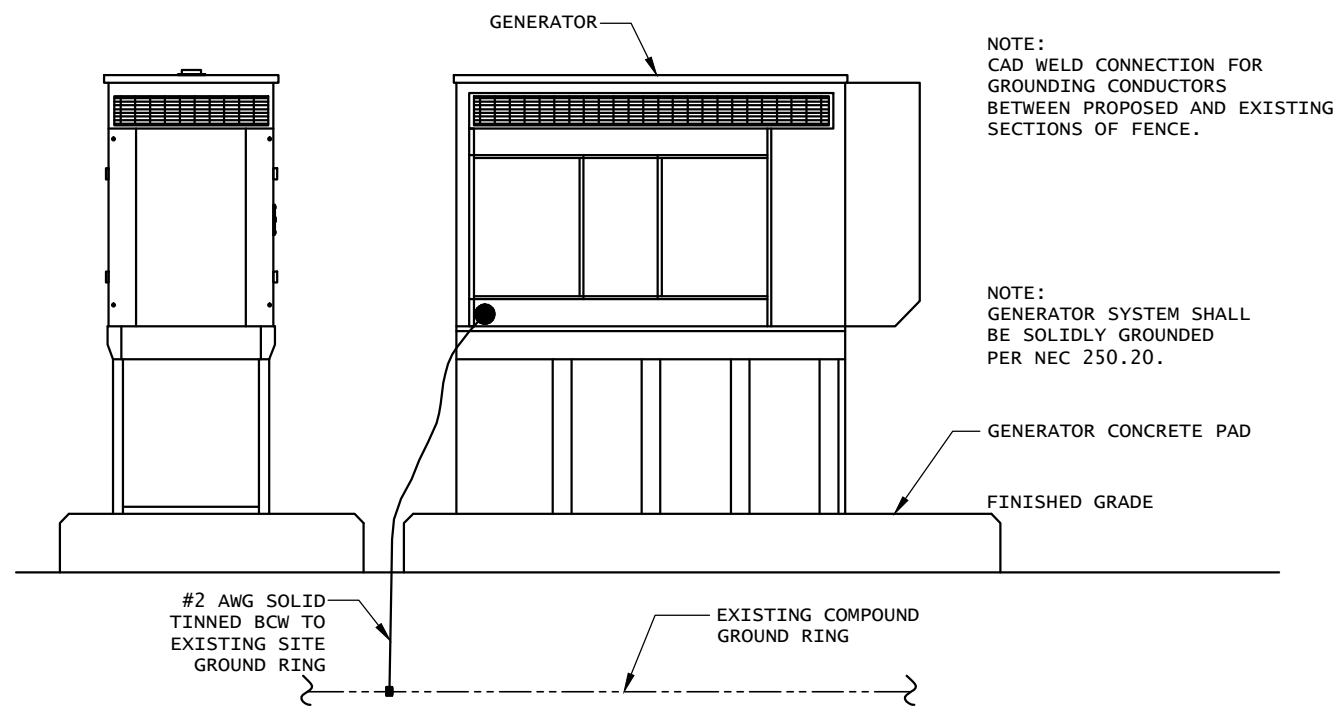
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DATE DRAWN:	01-06-14
JOB NO:	1080.01

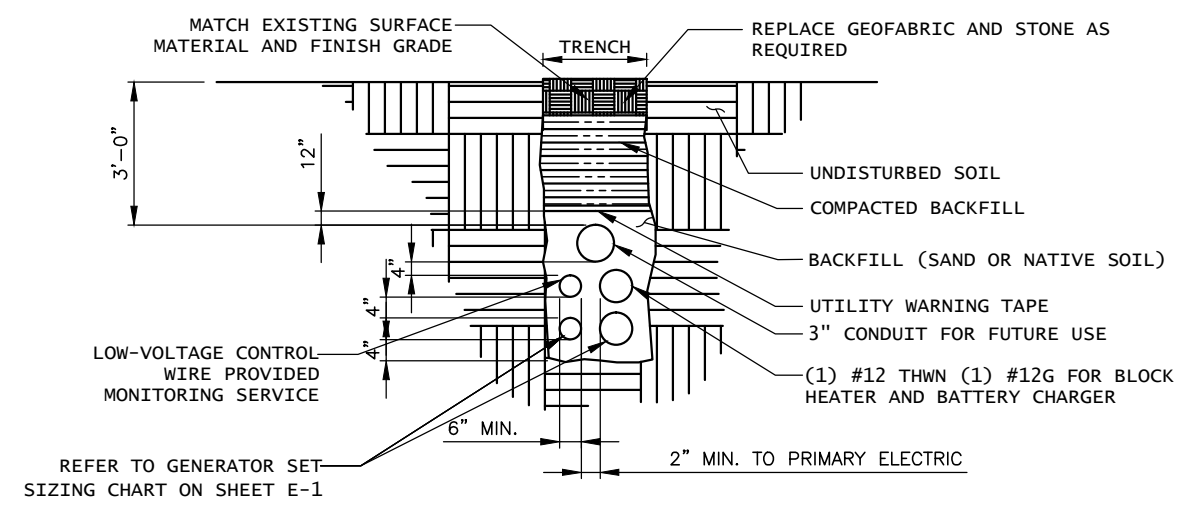
SHEET TITLE:  
  
COMPOUND  
GROUNDING

SHEET NUMBER:	REV. #
G-1	0

NOTES:  
 1. CONTRACTOR TO HAND DIG ALL NEW TRENCHES INSIDE COMPOUND.  
 2. SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS.



1 GENERATOR ELEVATION  
SCALE: NTS



2 TRENCH DETAIL  
SCALE: NTS

- NOTES:
- ELECTRICIAN SHALL VERIFY THAT GENERATOR IS INSTALLED SO THAT ELECTRICAL BACK-FEEDS ARE NOT POSSIBLE.
  - ELECTRICIAN SHALL VERIFY THAT GROUNDING IS INSTALLED SO THAT NO CIRCULATING CURRENTS ARE POSSIBLE BY FOLLOWING DETAIL 3 SO GROUNDING IS CONNECTED TO EXISTING TOWER GROUND FIELD.
  - ALL LIGHTNING GROUNDING SHALL BE FREE OF KINKS AND SHALL HAVE LONG RADIUS BENDS (MINIMUM 8").
  - ALL GROUNDING SHOULD BE INSTALLED PER CURRENT NEC, SECTION 250.
  - USE #2 AWG SOLID TINNED COPPER WIRE TO EXISTING  
(2) FENCE POSTS AND CADWELD FROM GENERATOR GROUND RING

NOTE:  
 CONTRACTOR TO VERIFY EXISTING MUX LOCATION. IF MUX LOCATION IS OUTSIDE OF AT&T EQUIPMENT AREA, CONTRACTOR IS TO FIELD VERIFY THE PRESENCE OF EMERGENCY BACK-UP SERVICE TO THE MUX. IF EMERGENCY BACK-UP SERVICE IS NOT PRESENT, CONTRACTOR IS TO ROUTE NEW SERVICE FROM AT&T EQUIPMENT AREA