



Jacky Clifford

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  
145 MANOR ROAD, GUILFORD, CT 06892 (FA#10035042)**

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 **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 Guilford.** A copy of this submission is also being sent to Diedra A. Popkin 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,

**Jacky Clifford 508.446.1047**

On behalf of AT&T

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

cc: **Town of Guilford, CT**

cc: Diedra A. Popkin - Property Owner

Exhibit 1

Site Plan



# BACKUP POWER PROJECT

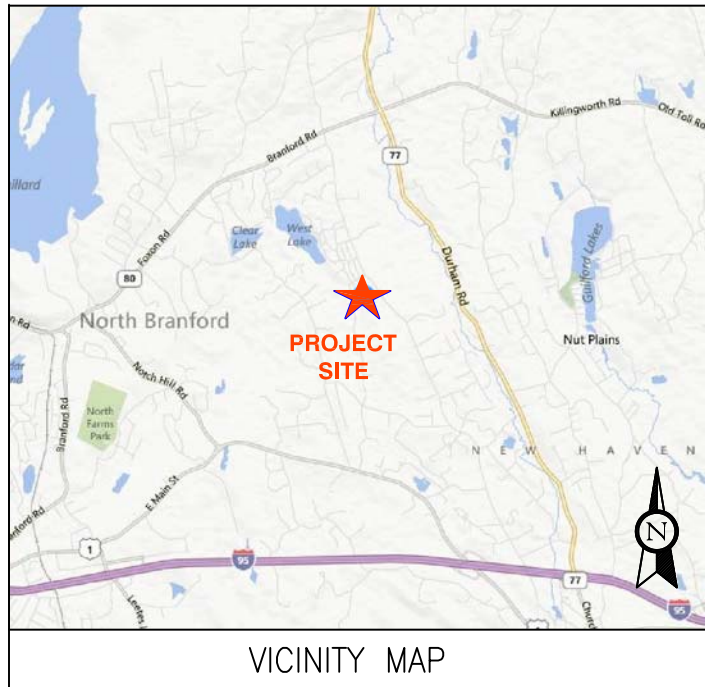
## SITE IDENTIFICATION:

SITE NUMBER: 10035042  
 SITE NAME: GUILFORD CENTRAL  
 SITE ADDRESS: 145 MANOR ROAD  
 GUILFORD, CT 06437

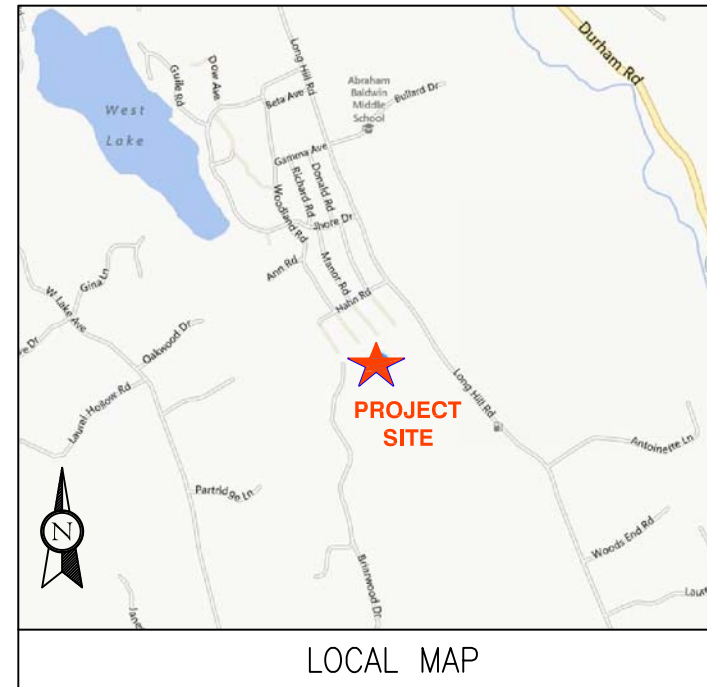
## PROJECT DESCRIPTION:

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

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.



VICINITY MAP



LOCAL MAP



Know what's below.  
Call before you dig.

THIS FACILITY SHALL MEET OR EXCEED ALL FAA AND FCC REGULATORY REQUIREMENTS.

PROJECT TEAM	PROJECT SUMMARY	PROJECT NOTES	SHEET INDEX				
<b>ENGINEER:</b> ADVANCED ENGINEERING GROUP, P.C. 500 NORTH BROADWAY EAST PROVIDENCE, RI 02914 TEL: 401-354-2403  <b>APPLICANT:</b> AT&T MOBILITY 550 COCHITUATE ROAD SUITES 13 & 14 FRAMINGHAM, MA 01701  <b>CUSTOMER REPRESENTATIVE:</b> SABRE INDUSTRIES PEGGY POOR MARKET LEAD - AT&T NE GENERATOR PROGRAM 13010 MORRIS ROAD, 6TH FLOOR, BLDG 1 ALPHARETTA, GA 30004 CELL 770-990-0137  <b>LANDLORD:</b> CROWN CASTLE INT (GLOBAL) TARA RAND 500 WEST CUMMINGS PARK, SUITE 3600 WOBURN, MA 01801 PHONE: 781-970-0060  <b>UTILITIES:</b> <b>POWER COMPANY:</b> NORTHEAST UTILITIES (NU) P.O. BOX 270 HARTFORD, CT 06141-0270 PHONE: 1-800-286-5000	<b>GEOGRAPHIC COORDINATES:</b> LATITUDE: 41.330046, LONGITUDE: -72.721804  <b>CODE BLOCK:</b> BUILDING CODE: 2009 INTERNATIONAL BUILDING CODE	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 AS REQUIRED.  5. HANDICAP ACCESS IS NOT REQUIRED.	<b>SHT NO:</b>	<b>DESCRIPTION:</b>	<b>REV:</b>	<b>DATE:</b>	<b>BY:</b>
		T-1 TITLE SHEET, VICINITY MAP AND GENERAL INFORMATION A-1 COMPOUND PLAN A-2 CONCRETE PAD DETAILS E-1 WIRING DIAGRAM & SIZING CHARTS E-2 ELECTRICAL & ATS MOUNTING DETAILS G-1 GROUNDING DETAILS	1	02-20-2014	C/JG		
<b>PROJECT LOCATION DIRECTIONS</b> 1. 550 COCHITUATE RD, FRAMINGHAM, MA 01701 DEPART LEGGAT MCCALL CONNECTOR RD TOWARD SPEEN ST 2. TURN RIGHT ONTO SPEEN ST THEN TURN RIGHT ONTO RT-30 / COCHITUATE RD 3. TAKE RAMP RIGHT FOR I-90 WEST TOWARD WORCESTER / SPRINGFIELD AT EXIT 9, TAKE RAMP RIGHT FOR I-84 TOWARD NEW YORK CITY / HARTFORD 4. AT EXIT 57, TAKE RAMP LEFT FOR CT-15 SOUTH TOWARD CHARTER OAK BR / N.Y. CITY 5. KEEP STRAIGHT ONTO US-5 S / CT-15 S 6. AT EXIT 86, TAKE RAMP RIGHT FOR I-91 SOUTH TOWARD NEW HAVEN / N.Y. CITY 7. AT EXIT 22S, TAKE RAMP LEFT FOR CT-9 SOUTH TOWARD OLD SAYBROOK / MIDDLETOWN 8. KEEP STRAIGHT ONTO CT-9 S / CT-17 S 9. AT EXIT 13, TAKE RAMP RIGHT FOR CT-17 SOUTH TOWARD NEW HAVEN 10. BEAR LEFT ONTO CT-17 / S MAIN ST 11. KEEP RIGHT TO STAY ON CT-17 / NEW HAVEN RD 12. BEAR LEFT ONTO CT-77 / GUILFORD RD 13. TURN RIGHT ONTO CT-80 / BRANFORD RD THEN TURN LEFT ONTO LONG HILL RD 14. TURN RIGHT ONTO HAHN RD THEN TURN LEFT ONTO MANOR RD 15. ARRIVE AT 145 MANOR RD, GUILFORD, CT 06437							

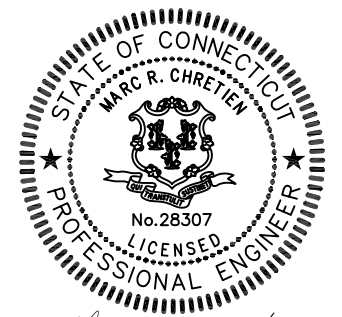
**ADVANCED ENGINEERING GROUP, P.C.**  
 Civil Engineering - Site Development  
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**Sabre Industries**  
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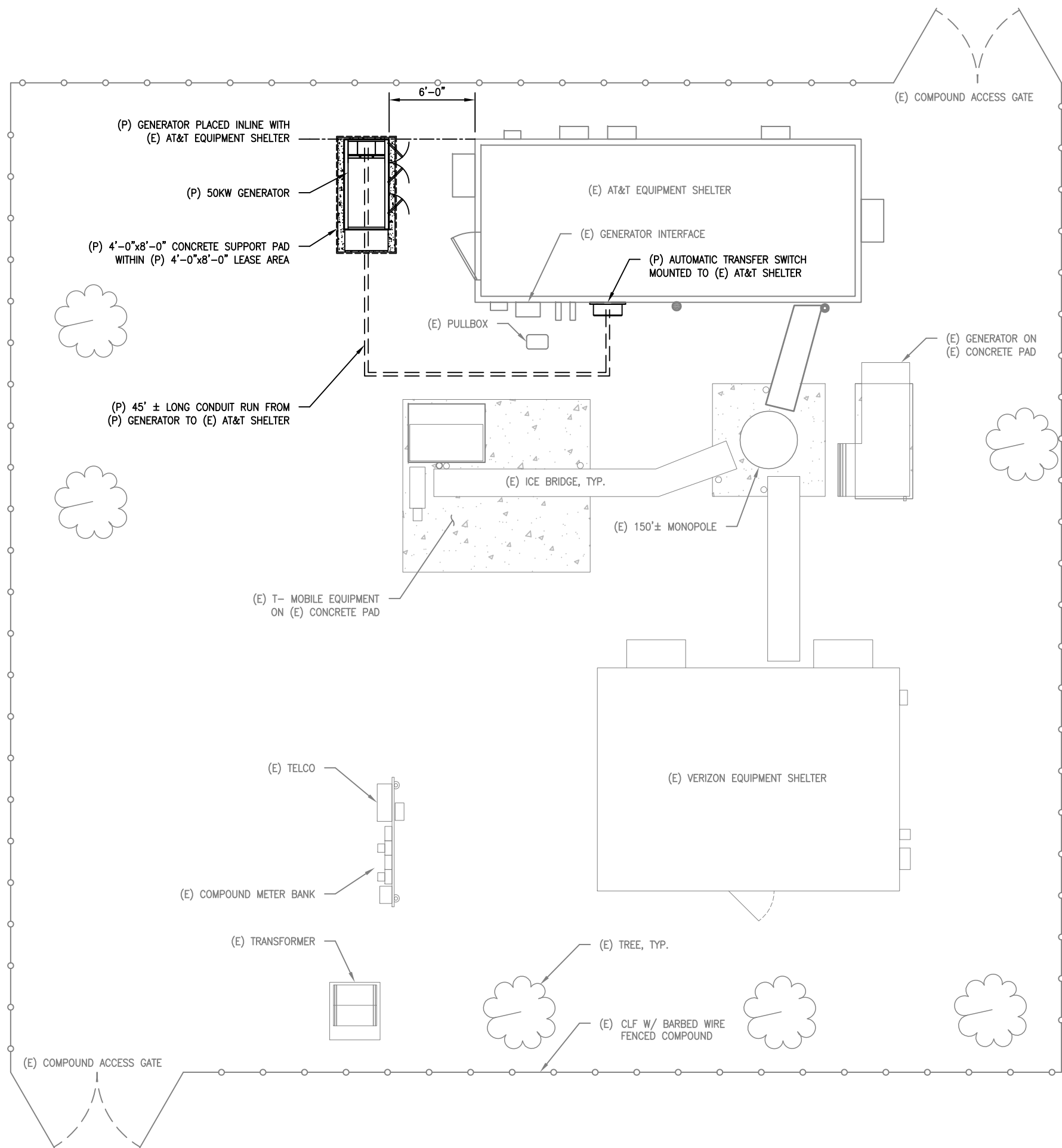
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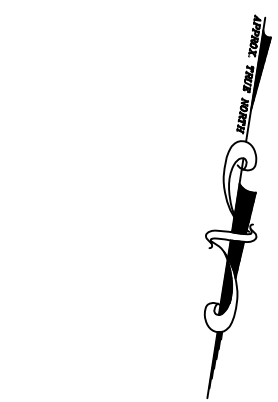
*Marc R. Chretien*

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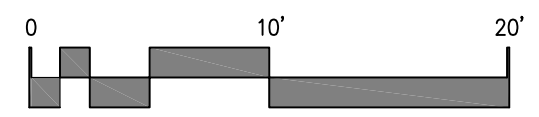
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SHEET TITLE: TITLE SHEET, VICINITY MAP AND GENERAL INFORMATION	
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1 SITE COMPOUND  
SCALE: 1/8" = 1'-0"



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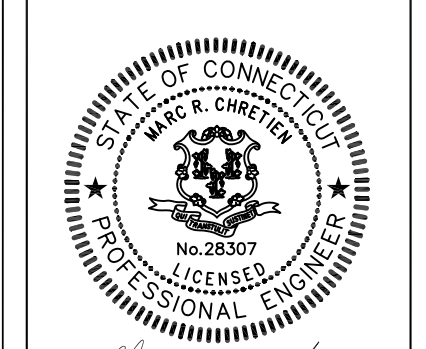
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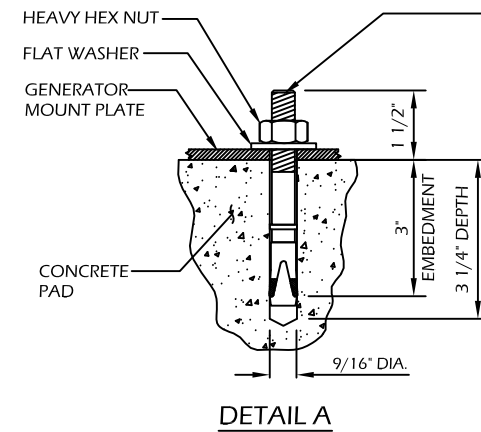
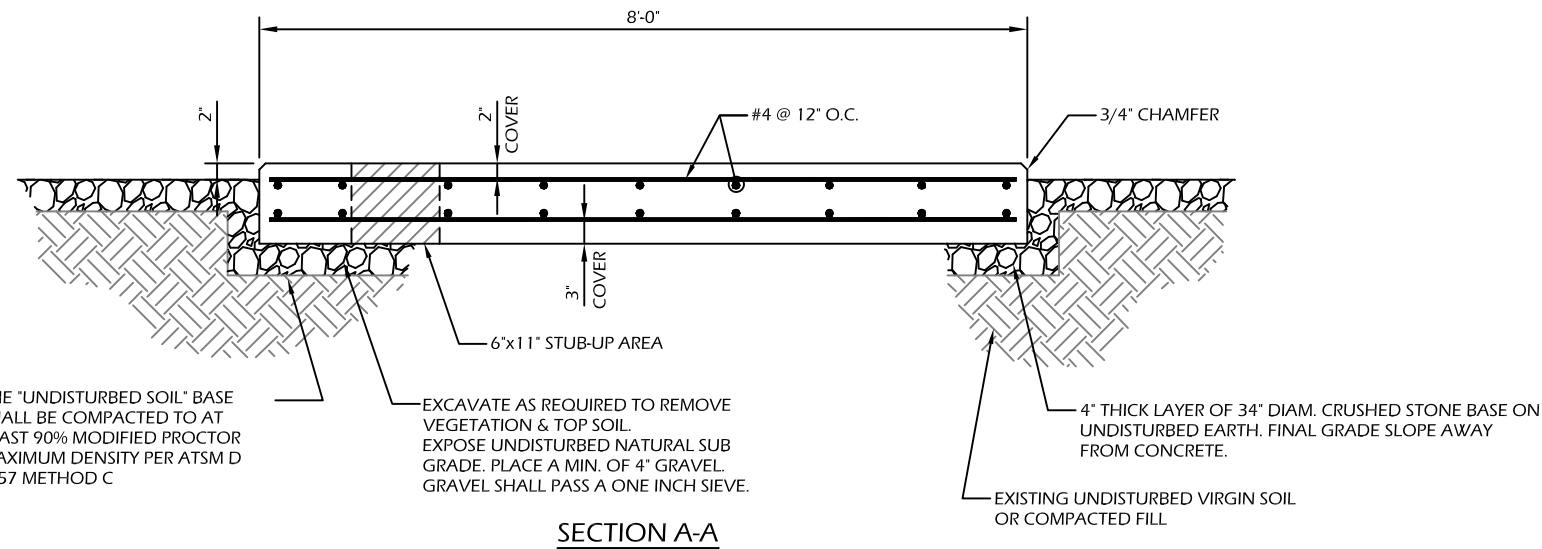
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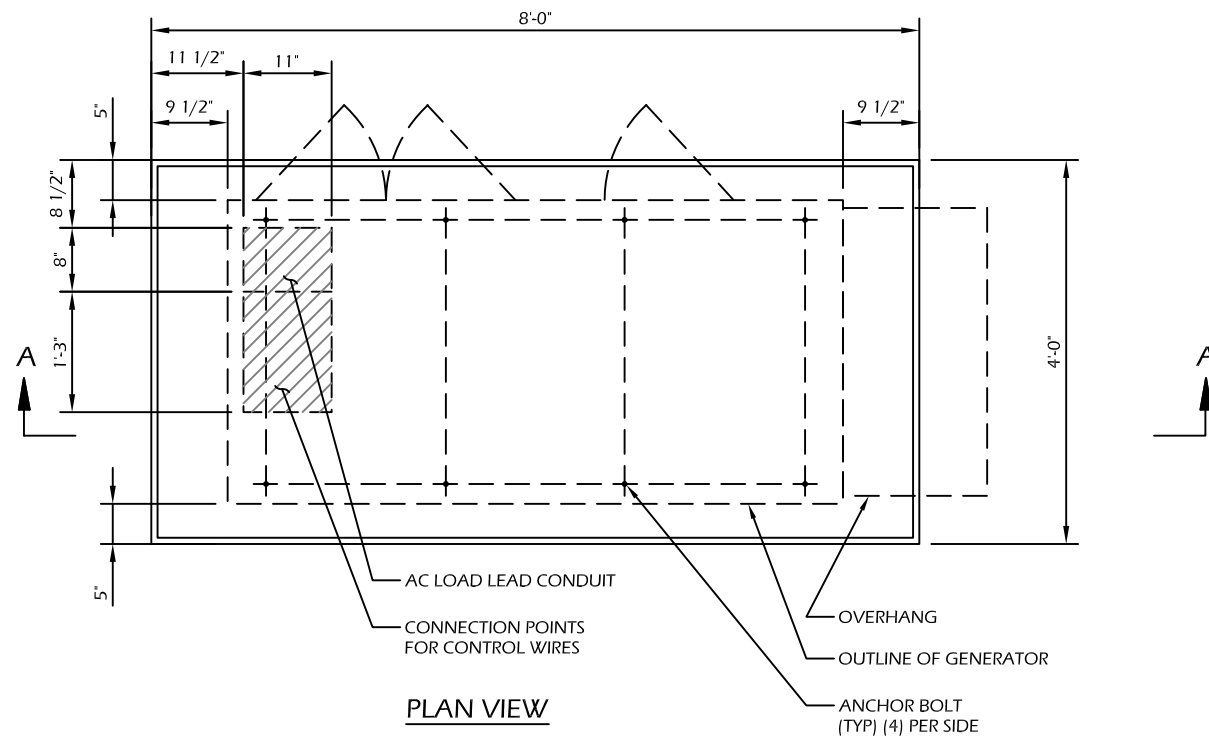
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SHEET TITLE:  
**COMPOUND PLAN**

SHEET NUMBER: <b>A-1</b>	REV. # <b>1</b>
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- "HILTI" KWIK BOLT 3 EXPANSION ANCHOR 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.



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**CONCRETE PAD CONSTRUCTION NOTES**

- ALL REBAR (HORIZONTAL & VERTICAL) SHALL BE SECURELY WIRE TIED TO PREVENT DISPLACEMENT DURING POURING OF CONCRETE.
- CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
- REINFORCED CONCRETE CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH ACI STANDARDS 318.
- MINIMUM CONCRETE COVER OVER REBAR IS 2 1/2".
- REINFORCING MATERIAL SHALL BE IN ACCORDANCE WITH ASTM SPECIFICATION A615-85.

**CONCRETE PAD AND EMBEDMENT TOLERANCES**

- CONCRETE DIMENSIONS: PLUS OR MINUS 1/4".
- REINFORCING STEEL PLACEMENT: PLUS OR MINUS 1/4" INCLUDING CONCRETE COVER.

**NOTES**

- FOUNDATION WAS DESIGNED BY ASSUMING ALLOWABLE SOIL BEARING CAPACITY OF 1000 PSI. THE SOIL BEARING CAPACITY FOR EACH SITE MUST BE VERIFIED USING THE SITE SPECIFIC GEOTECH REPORT. IF SHALLOW GROUNDWATER ( $\leq 3$  FT.) WAS REPORTED, A FURTHER REVIEW OF THE DESIGN OR SPECIAL DESIGN MAY BE REQUIRED.
- THE SOIL UNDERNEATH THE CONCRETE PAD MUST BE FREE OF ORGANIC MATTER OR OTHER DELETERIOUS SUBSTANCES, AND SHOULD BE COMPACTED AND LEVELED BEFORE PLACING THE FOUNDATION.
- CONCRETE SLUMPS: 1"~3".
- CONCRETE VOLUME: 2.4 CUBIC YARDS.

**DESIGN**

- MAXIMUM DESIGN BASIC WIND SPEED (3-SECOND GUST): 155 MPH FOR GENERATOR MODELS SD050 AND SD080.

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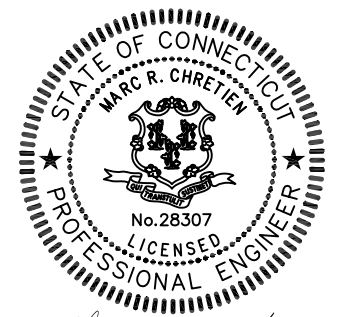
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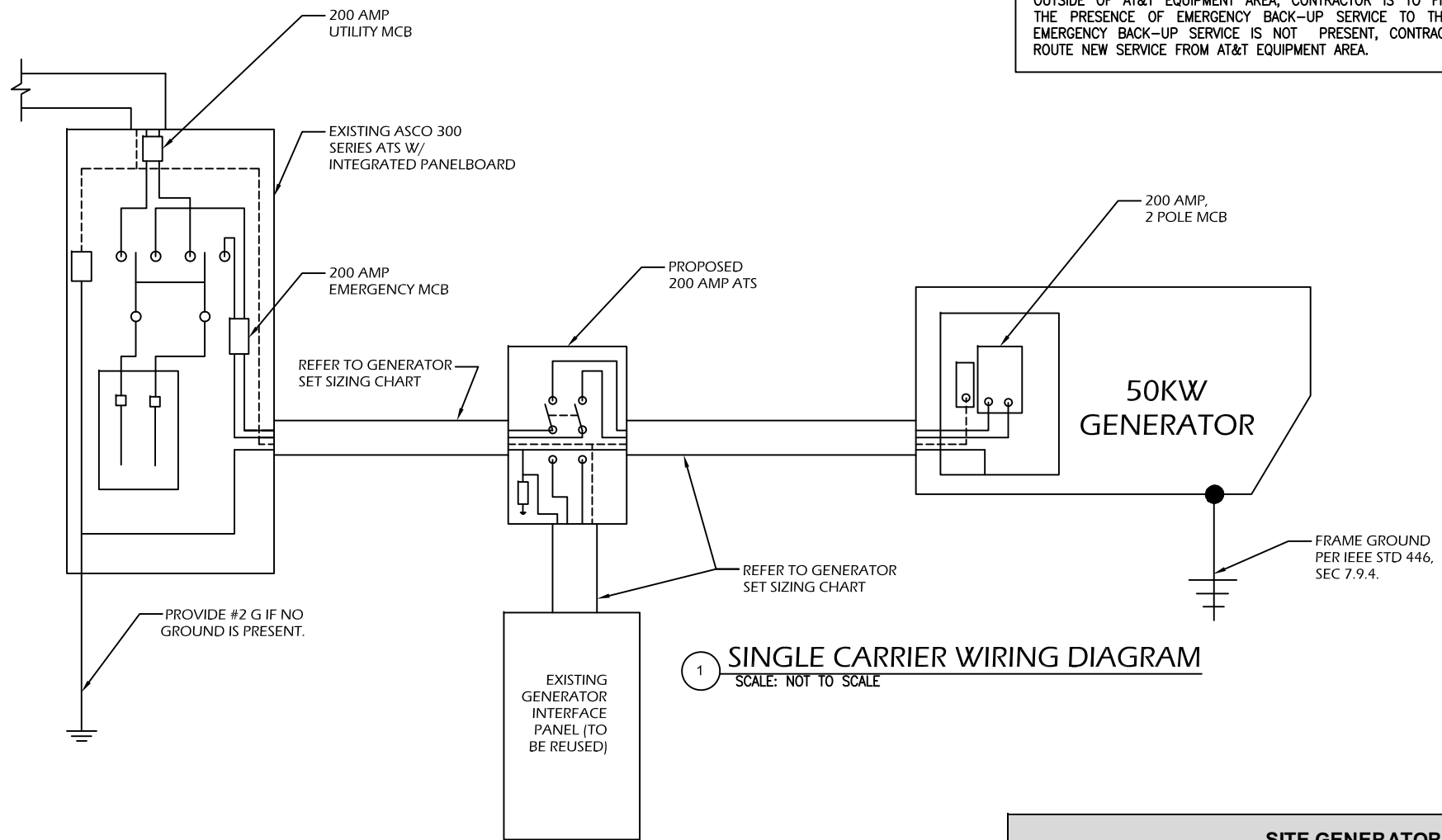
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SHEET TITLE:  
**CONCRETE PAD DETAILS**

SHEET NUMBER: <b>A-2</b>	REV. # <b>1</b>
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1 SINGLE CARRIER WIRING DIAGRAM  
SCALE: NOT TO SCALE

- 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 ATC SHARED GEN DURING CUSTOMER COLLOCATION ON TOWER.
  5. ALL CONDUCTORS ARE SIZED FOR COPPER, BUT ALUMINUM CONDUCTORS ARE ALLOWED FOR FEEDERS PROVIDED THEY ARE UPSIZED PER NEC TABLE 310.16.
  6. ALL ELECTRICAL WORK SHALL BE PER THE NATIONAL ELECTRICAL CODE (NFPA 70) AND ALL APPLICABLE LOCAL CODES.
  7. MAINTAIN 36" CLEAR WORKSPACE IN FRONT OF METER, TRANSFER SWITCH, GENERATOR, PANELS, ETC.
  8. 800A PANEL HAS A COMMON NEUTRAL BUS. NEUTRALS BACK TO EACH CARRIER METER ARE SIZED ACCORDING TO THE DISTRIBUTION PANEL BRANCH BREAKER RATING. NEUTRAL IS BONDED AT THE PRIMARY SERVICE MAIN BONDING JUMPER ONLY.
  9. GENERATOR CONTROLS AND SENSORS SHALL HAVE GFCI SENSING CAPABILITY PER NEC 700-6(D).

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 DISTRIBUTION PANEL / ATS.
50KW	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 FOR EACH CARRIER IS 120/240 1-PHASE, AND SERVICE SIZES ARE TYPICAL 200A PER CARRIER.
  2. DISTRIBUTION PANEL IS 800A, 120/240V 1-PHASE, WITH 200A C/B FOR THE LISTED CARRIER OUTPUT. PANEL HAS (3) 200A BREAKER SPACES FOR FUTURE CARRIERS.
  3. AUTOMATIC TRANSFER SWITCH (ATS) ARE 200A 2-POLES, 120/240V 1-PHASE WITH SOLID NEUTRAL PER CARRIER.
  4. ALL ELECTRICAL EQUIPMENT IS NEMA 3R RATED.
  5. THE GENERATOR ELECTRICAL LOADS ARE ADEQUATE FOR THE CONNECTED LOADS.
  6. ALL EQUIPMENT FURNISHED SHALL BE PROVIDED WITH EQUIPMENT RATED TO WITHSTAND FAULT CURRENT AVAILABLE AT PROJECT SITE.
  7. ALL WIRE AND PANEL BUSSING SHALL BE COPPER UNLESS ALLOWED ELSEWHERE IN THIS DOCUMENT SET, WIRE SIZES ARE BASED ON COPPER.
  8. A NEW SET OF PLANS WILL BE PROVIDED AND SUBMITTED FOR ADDITIONAL CARRIERS.
  9. ALL WORK SHALL CONFORM WITH THE CURRENT VERSION OF THE NEC AND ALL OTHER APPLICABLE CODES.
  10. FIRST OVER-CURRENT PROTECTION DEVICE IS INTEGRAL TO GENERATOR. FEEDER SIZES INDICATED IN TABLE ABOVE ARE DOWNSTREAM OF THE FIRST OVER-CURRENT PROTECTION DEVICE.
  11. INLINE BREAKER AT GENERATOR IS FACTORY INSTALLED, AND IS THE MANUFACTURER'S RECOMMENDED SIZE.

2 GENERATOR SET SIZING CHARTS

GENERATOR FUNCTION	DEUTSCH DTM042PA-L02 SITE RECEPTACLE FOR GENERATOR ALARMS & CONTROL		CONNECTING CABLE			SITE CONNECTIONS	NOTES
	SOCKET PART #	PIN #	TYPE & PART #	SIZE	COLOR		
(CONTROL) AUTOMATIC START/STOP	#16 AWG 1062-20-0122	1	SJTO (2 Conductor) ANIXTER #4BT-1602	#16 AWG	BLACK	AUTO TRANSFER SWITCH ENGINE CONTROL LEADS (FOR CINGULAR STANDARD: INTERSECT/ASCO USE TB #4 & 15 - SEE CONTROL WIRING WORKSHEET)	*CLOSE* = ENGINE START (NO)
	#16 AWG 1062-20-0122	2		#16 AWG	WHITE		
(ALARM) GENERATOR RUNNING	#22 AWG 0462-201-20141	3	(10 Conductor) BELDEN 8456	#22 AWG	BLACK	SITE EXTERNAL ALARM BLOCK (GENERATOR RUNNING-MAJOR)	*CLOSE* = ALARM (NO)
	#22 AWG 0462-201-20141	4		#22 AWG	WHITE		
(ALARM) GENERATOR LOW FUEL	#22 AWG 0462-201-20141	5		#22 AWG	RED	SITE EXTERNAL ALARM BLOCK (GENERATOR LOW FUEL-CRITICAL)	*CLOSE* = ALARM (NO)
	#22 AWG 0462-201-20141	6		#22 AWG	GREEN		
(ALARM) GENERATOR FAIL - MAJOR [SHUTDOWN]	#22 AWG 0462-201-20141	7		#22 AWG	BROWN	SITE EXTERNAL ALARM BLOCK (GENERATOR FAIL - CRITICAL)	*CLOSE* = ALARM (NO)
	#22 AWG 0462-201-20141	8		#22 AWG	BLUE		
(ALARM) GENERATOR MISSING [THEFT]	#22 AWG 0462-201-20141	9		#22 AWG	ORANGE	SITE EXTERNAL ALARM BLOCK (GENERATOR MISSING - MAJOR)	*OPEN* = ALARM (NC)
	#22 AWG 0462-201-20141	10		#22 AWG	YELLOW		
(ALARM) GENERATOR WARNING - MINOR [NON-SHUTDOWN]	#22 AWG 0462-201-20141	11		#22 AWG	PURPLE	SITE EXTERNAL ALARM BLOCK (GENERATOR WARNING - MAJOR)	*CLOSE* = ALARM (NO)
	#22 AWG 0462-201-20141	12		#22 AWG	GRAY		
NA	WM-12S	RECEPTACLE WEDGE LOCK	NA	NA	NA	NA	NA

3 SITE GENERATOR CONTROL & ALARMS RECEPTACLE

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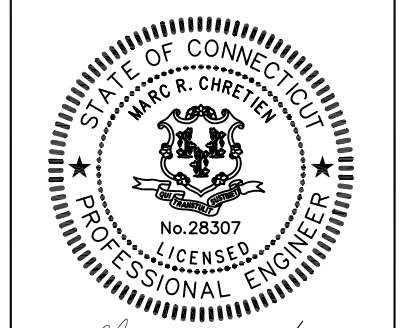
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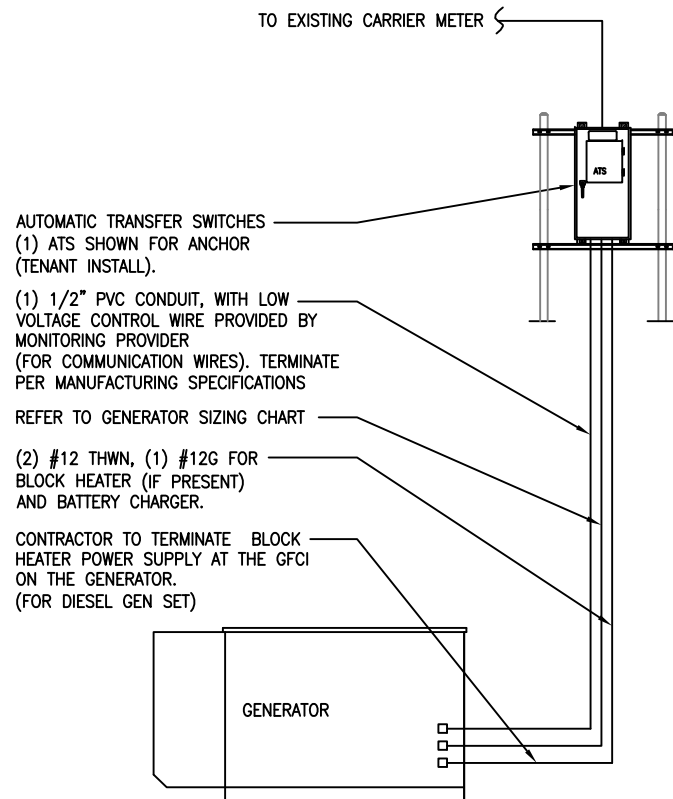
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SHEET TITLE:  
**WIRING DIAGRAM & SIZING CHARTS**

SHEET NUMBER: <b>E-1</b>	REV. # <b>1</b>
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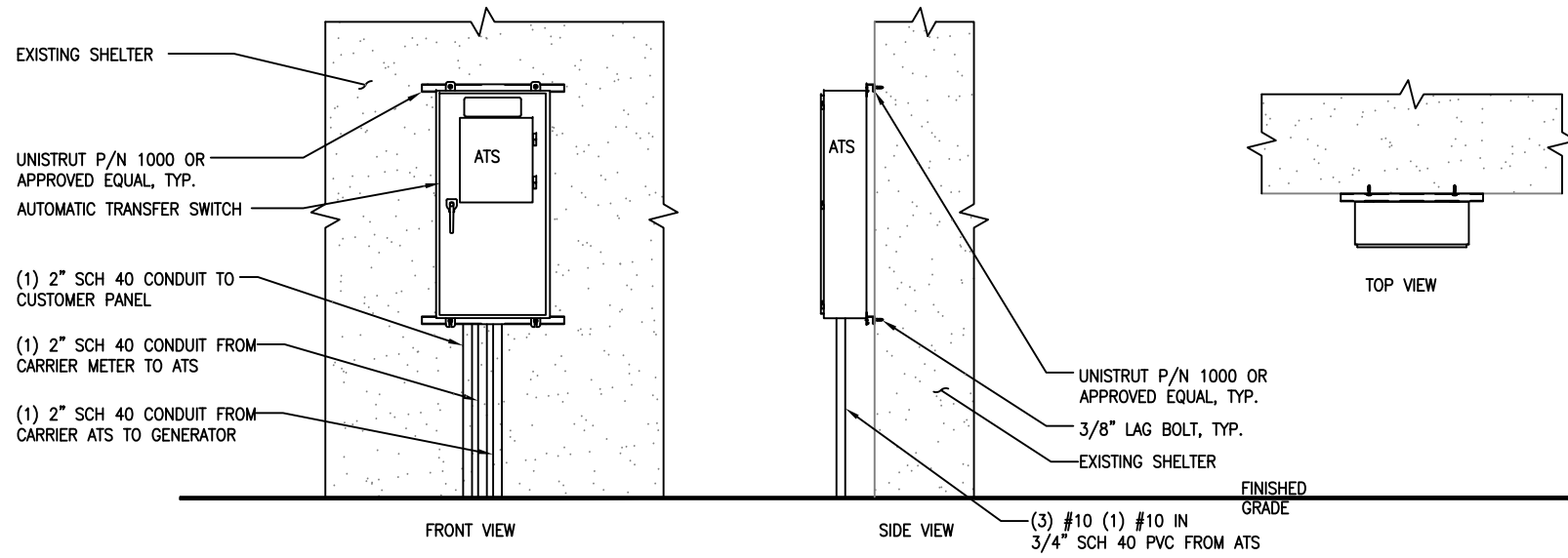
NOTE: UTILITY POWER FEEDS SHALL BE CONNECTED TO THE TRANSFER SWITCH FROM THE LOAD SIDE OF THE EXISTING SERVICE DISCONNECT. NO MODIFICATIONS SHALL BE MADE ON THE LINE SIDE OF THE EXISTING SERVICE DISCONNECT.

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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



2 ATS MOUNTING DETAIL  
SCALE: NOT TO SCALE

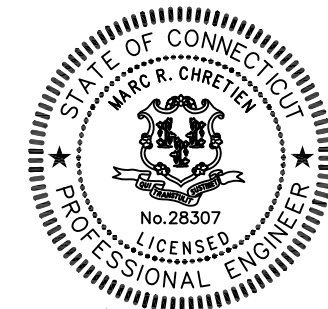
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ALPHARETTA, GA 30004

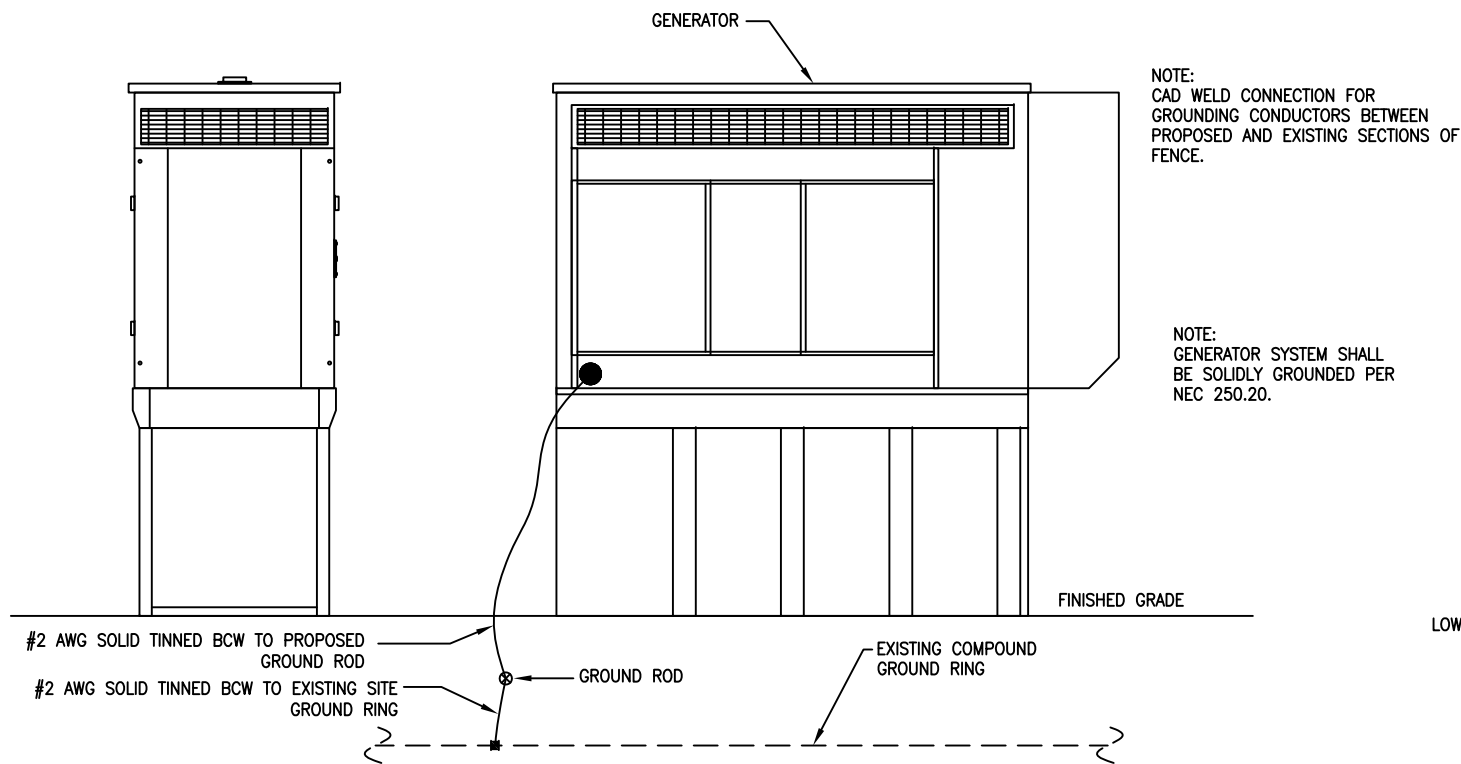
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**10035042**  
SITE NAME:  
**GUILFORD CENTRAL**  
SITE ADDRESS:  
145 MANOR ROAD  
GUILFORD, CT 06437



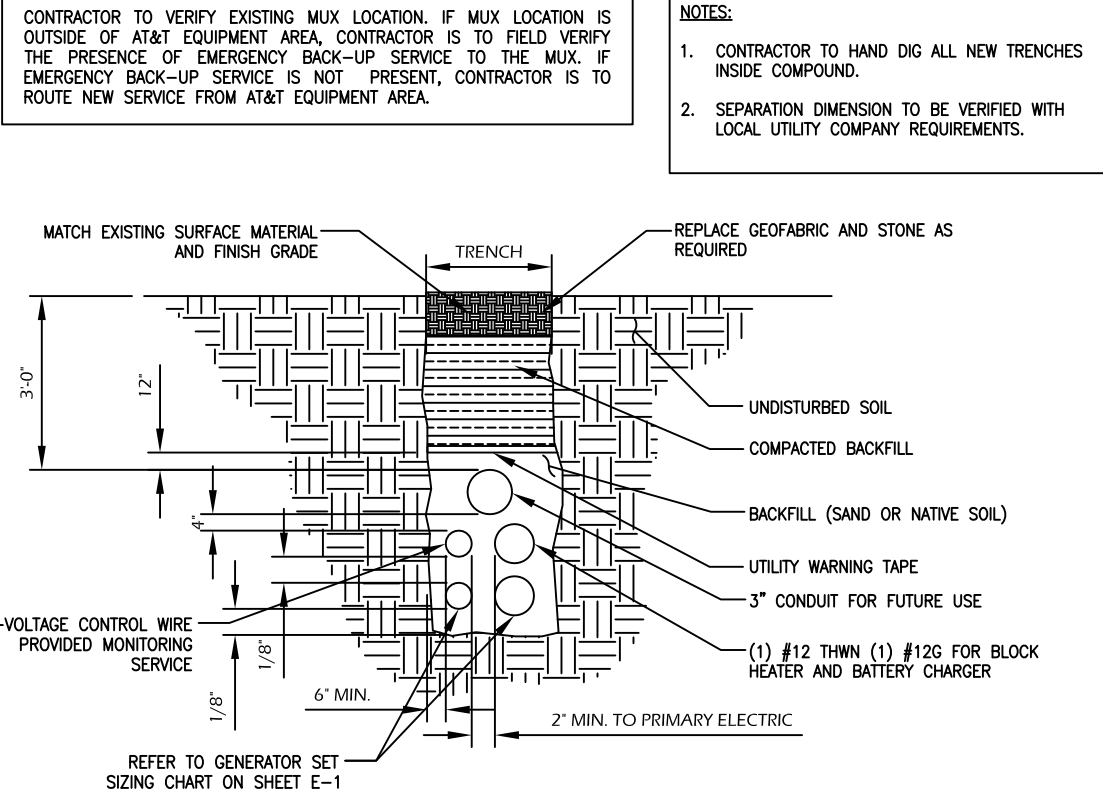
*Marc R. Chretien*

STAMP HERE:	
DRAWN BY:	CJG
CHECKED BY:	SNA
DATE DRAWN:	02-20-14
JOB NO:	10035042
SHEET TITLE: ELECTRICAL & ATS MOUNTING DETAILS	
SHEET NUMBER: E-2	REV. # 1

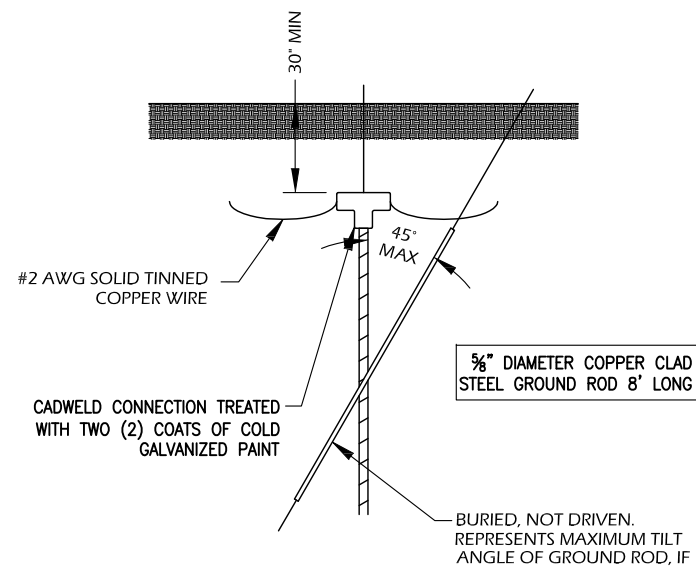




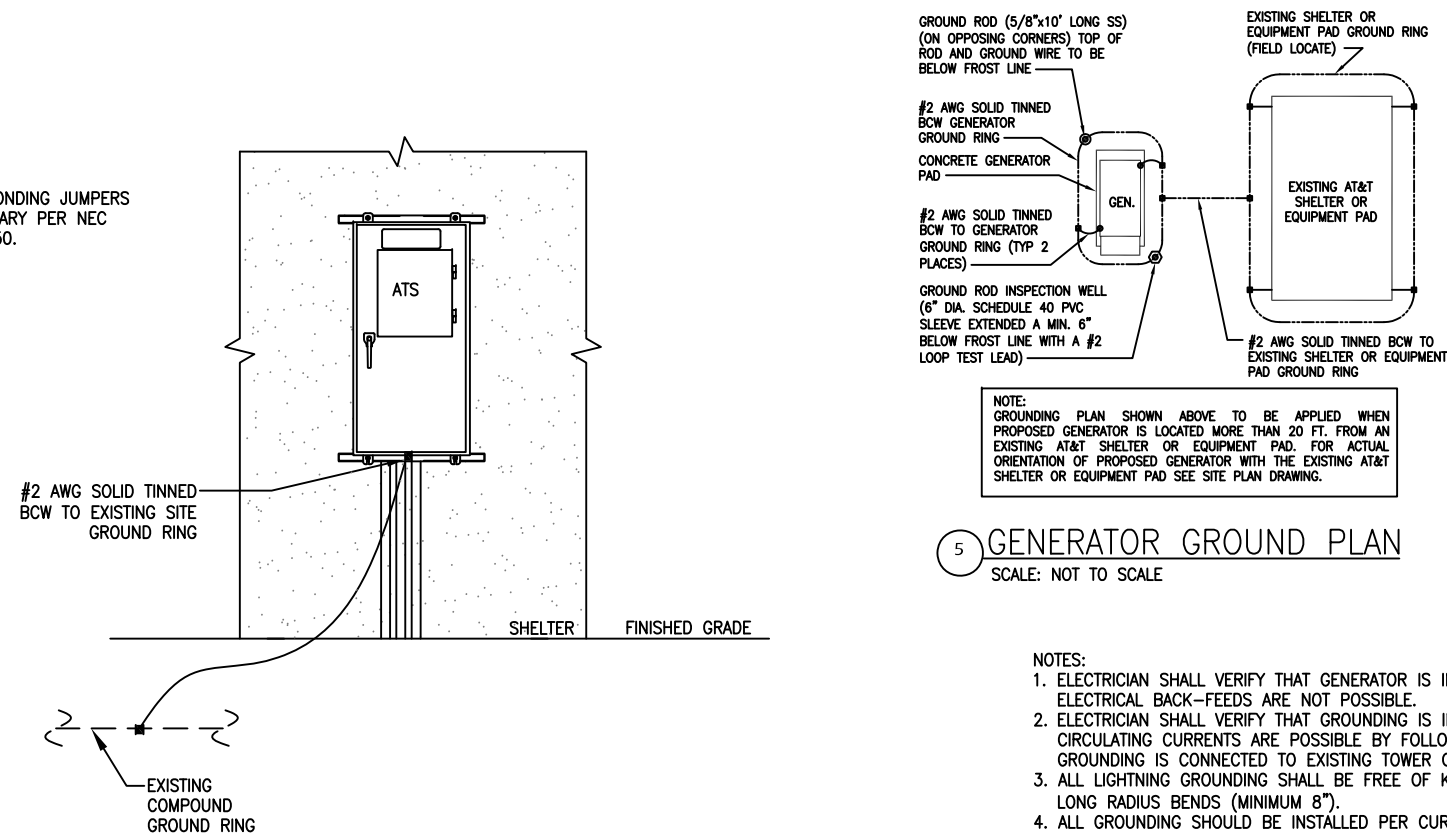
1 GENERATOR ELEVATION  
SCALE: NOT TO SCALE



2 TRENCH DETAIL  
SCALE: NOT TO SCALE



4 GROUND ROD DETAIL  
SCALE: NOT TO SCALE



5 GENERATOR GROUND PLAN  
SCALE: NOT TO SCALE

- NOTES:
1. ELECTRICIAN SHALL VERIFY THAT GENERATOR IS INSTALLED SO THAT ELECTRICAL BACK-FEEDS ARE NOT POSSIBLE.
  2. 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.
  3. ALL LIGHTNING GROUNDING SHALL BE FREE OF KINKS AND SHALL HAVE LONG RADIUS BENDS (MINIMUM 8").
  4. ALL GROUNDING SHOULD BE INSTALLED PER CURRENT NEC, SECTION 250.
  5. USE #2 AWG SOLID TINNED COPPER WIRE TO EXISTING (2) FENCE POSTS AND CADWELD FROM GENERATOR GROUND RING

3 H-FRAME ELEVATION  
SCALE: NOT TO SCALE

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.

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

**ADVANCED ENGINEERING GROUP, P.C.**  
Civil Engineering - Site Development  
Surveying - Telecommunications  
500 NORTH BROADWAY  
EAST PROVIDENCE, RI 02914  
PH: 401-354-2403 FAX: 401-633-6354

**TRM**  
Convergent Network Solutions  
TOWER RESOURCE MANAGEMENT  
16 CHESTNUT STREET, SUITE 220  
FOXBORO, MA 02035  
WWW.TRMCOM.COM

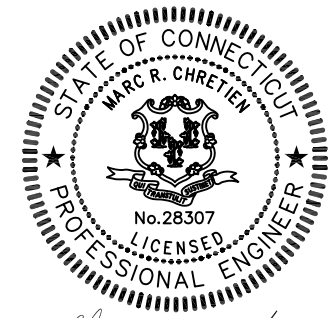
**at&t**  
550 COCHITUATE ROAD, SUITE 13 & 14  
FRAMINGHAM, MA 01701-4681

**Sabre Industries**  
13010 MORRIS ROAD, 6TH FLOOR, BLDG 1  
ALPHARETTA, GA 30004

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*Marc R. Chretien*

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JOB NO:	10035042
SHEET TITLE: <b>GROUNDING DETAILS</b>	
SHEET NUMBER: <b>G-1</b>	REV. # <b>1</b>