



Matt Burke

16 Chestnut Street, Suite 220  
Foxboro, MA 02035  
Tel (508) 930-0974  
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Melanie Bachman  
Acting Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

Re: **Notice of Exempt Modification - Emergency Backup Generator  
Chestnut Hill Road, Colchester, CT 06415 (FA# 10035002)**

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 185’ level of an existing 185’ 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 Colchester. A copy of this submission is also being sent to Colchester Realty 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

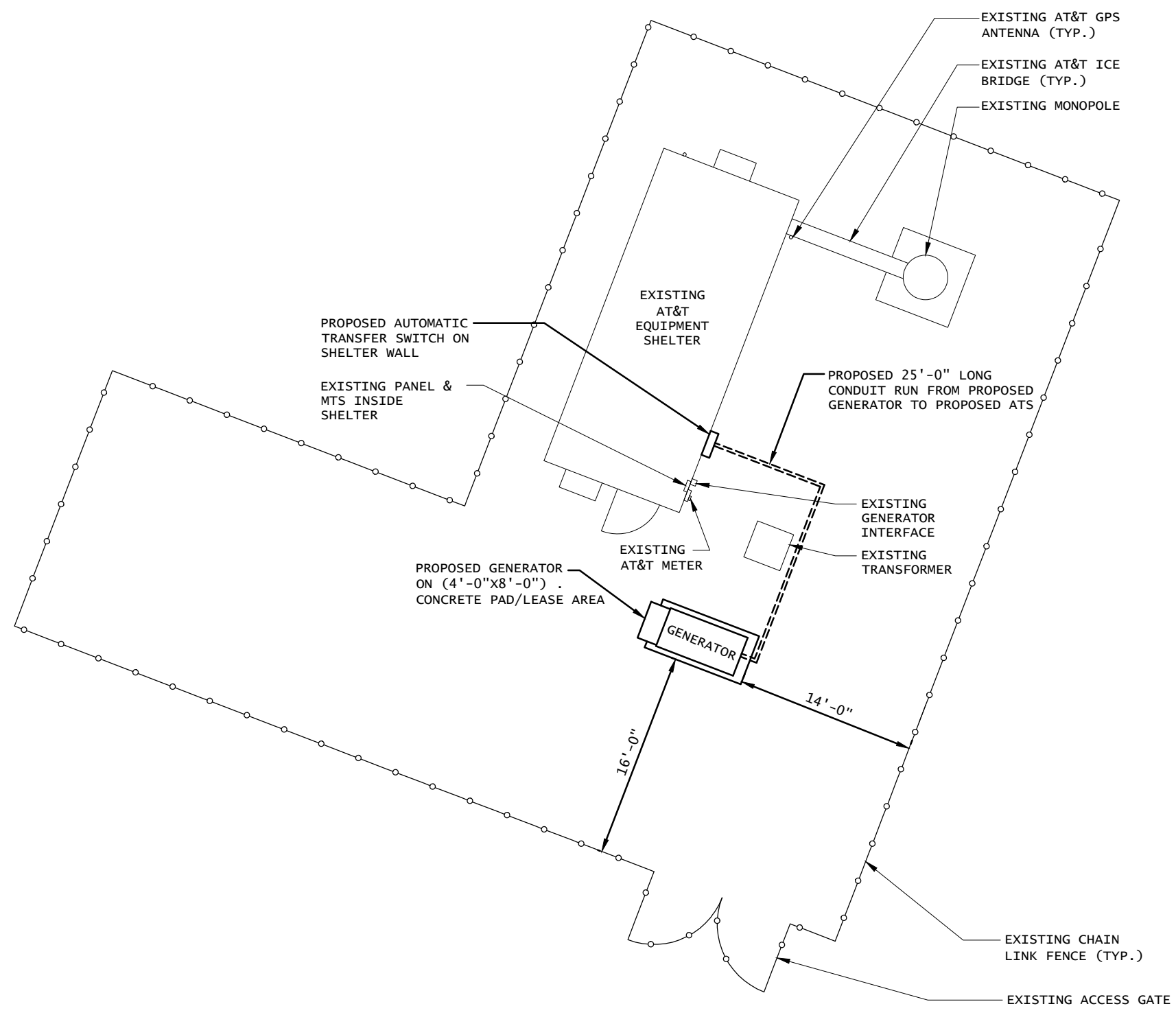
cc: **Town of Colchester, CT**  
Colchester Realty LLC

Exhibit 1

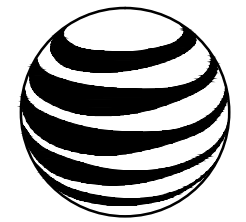
Site Plan



**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



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

SITE NUMBER:  
**10035002**

SITE NAME:  
**COLCHESTER**

SITE ADDRESS:  
 CHESTNUT HILL ROAD  
 COLCHESTER, CT 06415

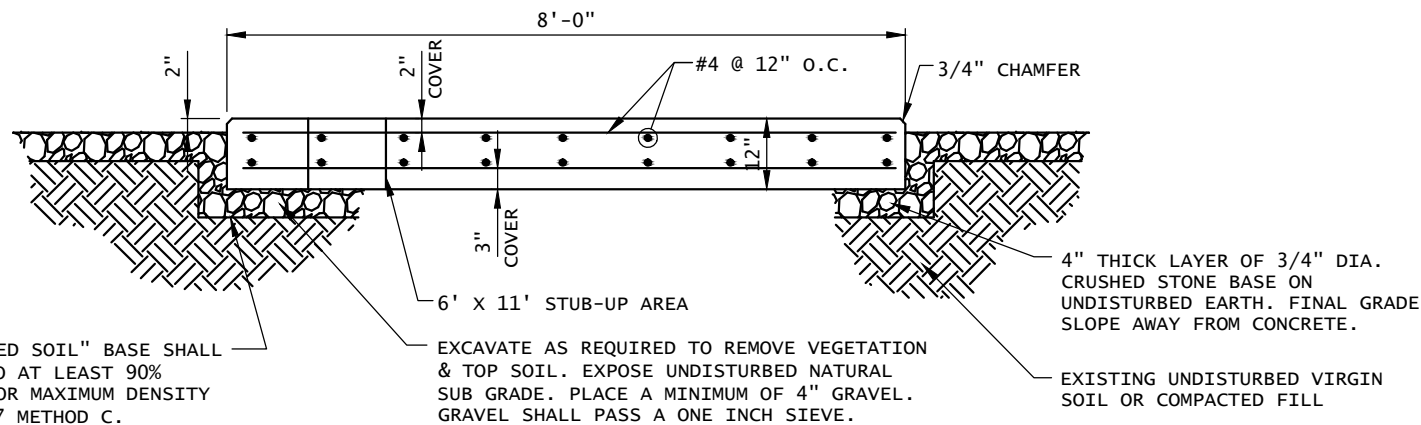


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JOB NO:	2046.01

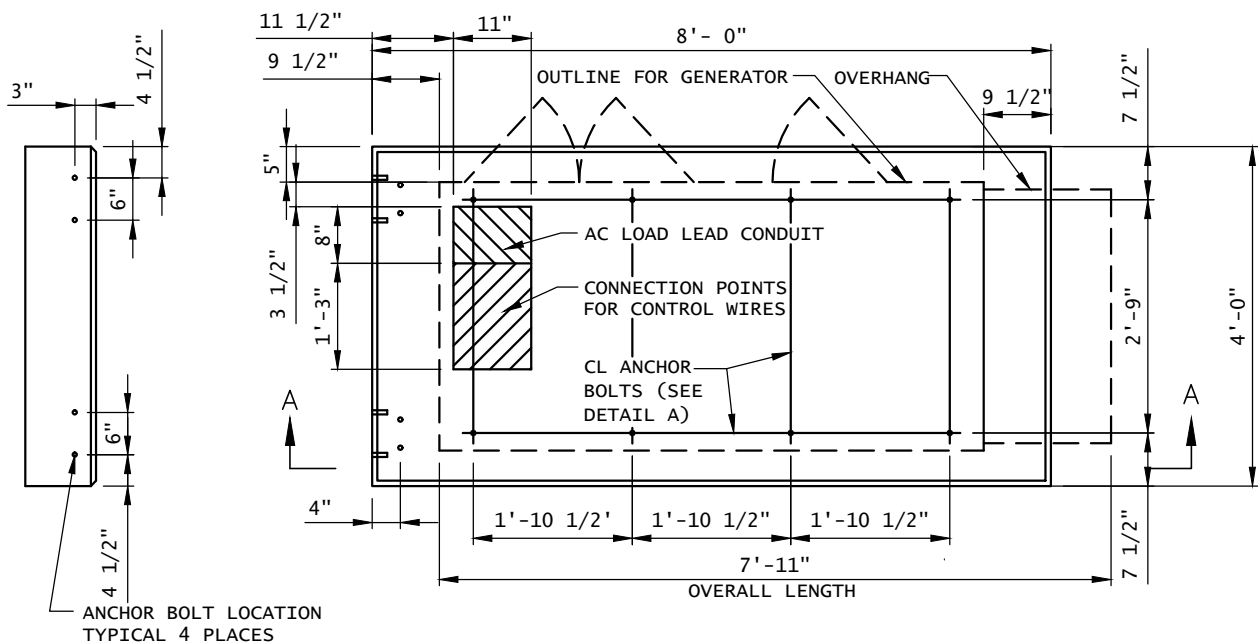
SHEET TITLE:  
**SITE PLAN**

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

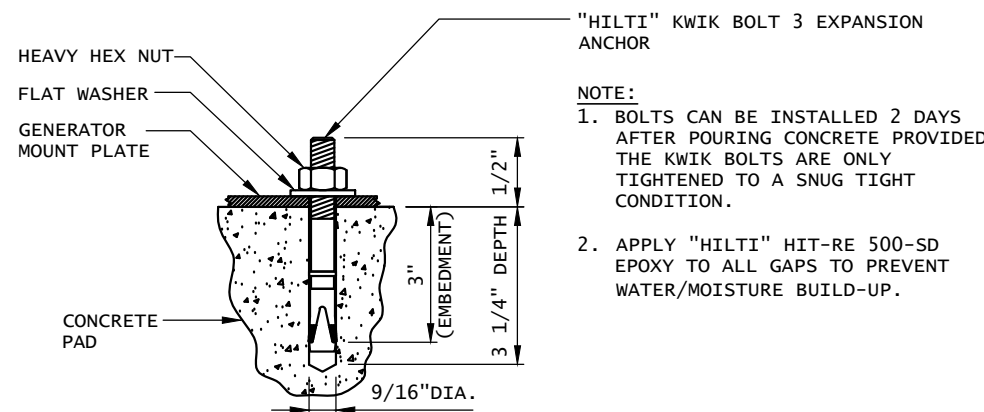
SOIL COMPACTION NOTES FOR SLAB ON GRADE:

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

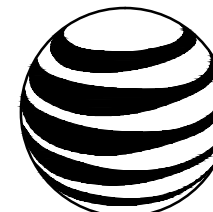
\* FOR REFERENCE. TO BE USED FOR INSTALLATION OF KWIK BOLT EXPANSION ANCHORS FOR 50KW GENERATORS.

NOTE:  
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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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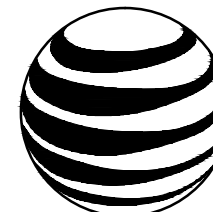
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 JOB NO: 2046.01

SHEET TITLE:

CONCRETE  
 PAD DETAIL

SHEET NUMBER: A-2 REV. # 0



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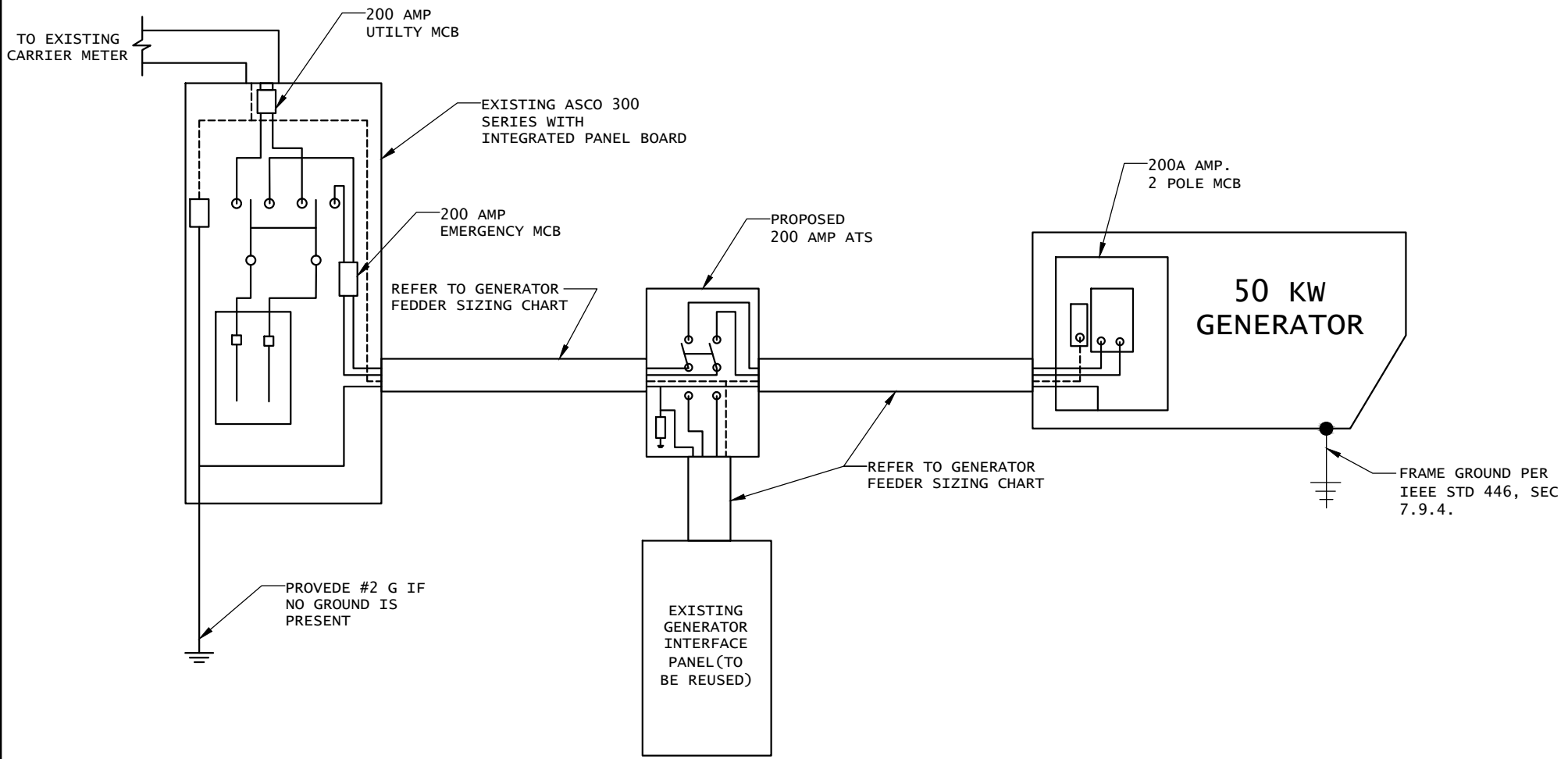
SHEET TITLE:  
**WIRING DIAGRAM & H-FRAME LAYOUT**

SHEET NUMBER: **E-1**      REV. # **0**

**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

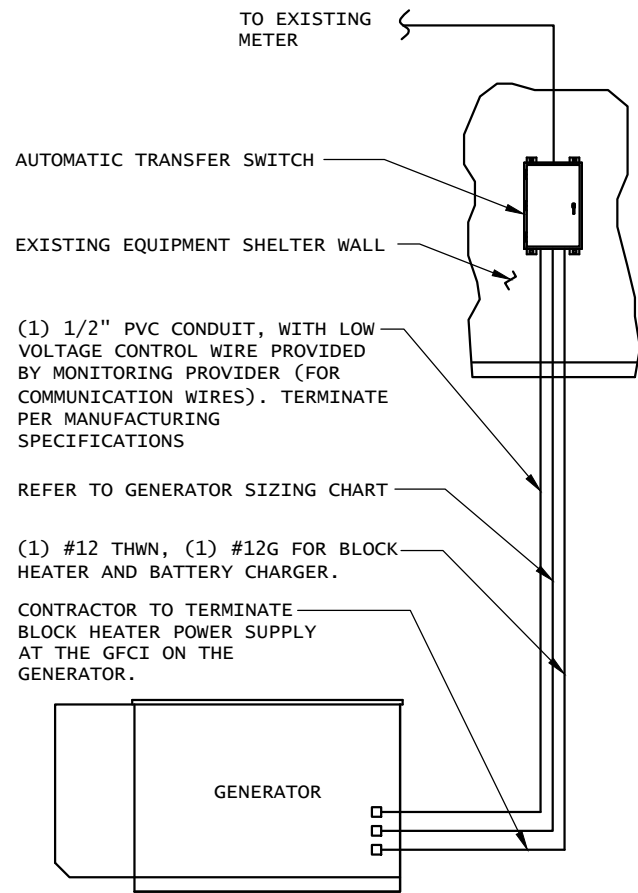
FEEDER SIZING CHART FOR GENERATOR					
GEN SET SIZE	VOLTS-PHASE	PRIME RATING KW-AMPS	SIZE OF INLINE BREAKER (AT GENERATOR)	MAIN BREAKER SIZE SERVING ANCHOR TENANT:	FEEDER SIZES FROM GEN SET BREAKER TO ATS.
50 KW	120/240V - 1-PH	48KW - 200A	200A	200A 2-P C/B INTEGRAL TO GEN SET.	3#3/0, 1#6G, IN 3"C

**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

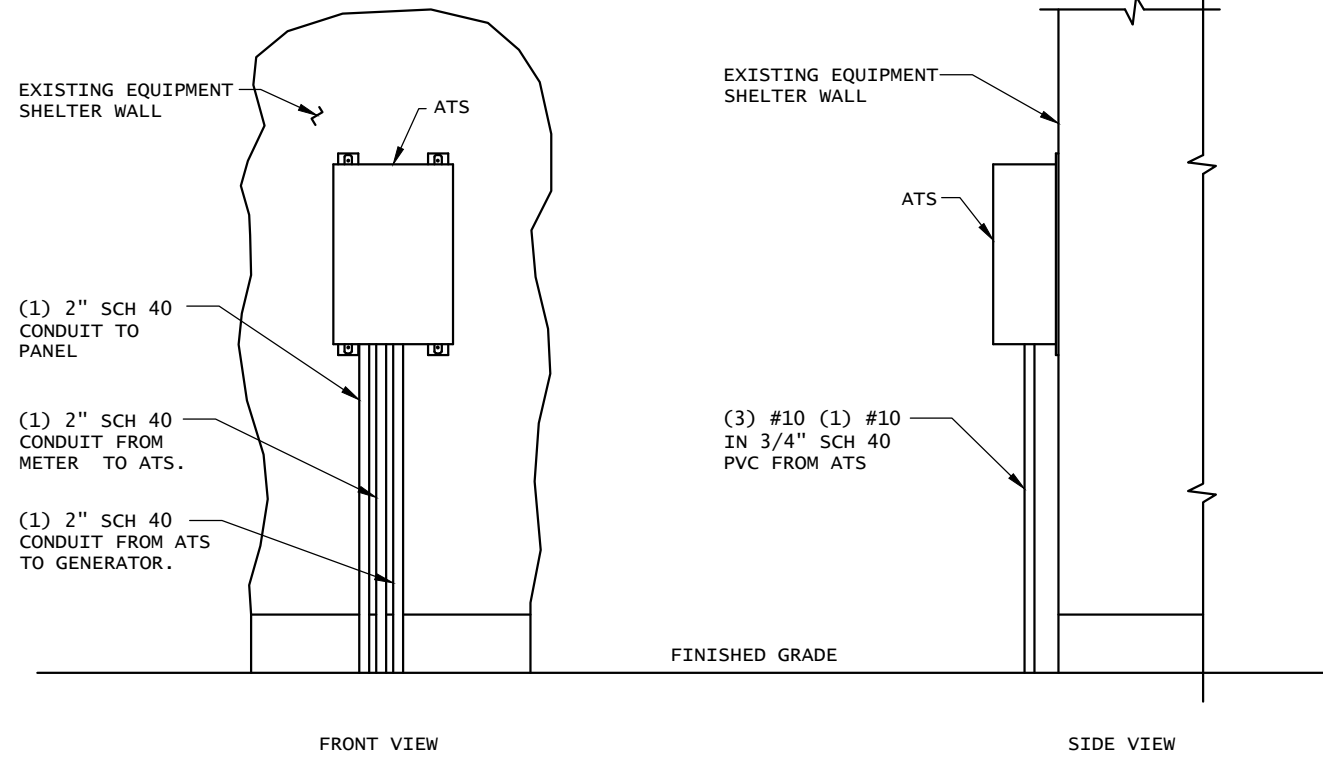
(1) #12 THWN, (1) #12G FOR BLOCK HEATER AND BATTERY CHARGER.

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

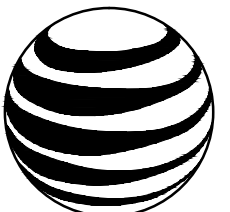
DISCONNECT POWER FEED FROM EXISTING METER TO EXISTING SHELTER. ROUTE NEW FEEDERS (SIZED BELOW) FROM METER TO NEW TRANSFER SWITCH AND BACK. RECONNECT NEW RETURN FEED FROM TRANSFER SWITCH TO SUPPLY POWER (UTILITY AND BACK-UP POWER) TO EXISTING SHELTER.

1 METER CONFIGURATION  
SCALE: NTS

NOTE:  
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2 AUTOMATIC TRANSFER SWITCH LAYOUT  
SCALE: NOT TO SCALE



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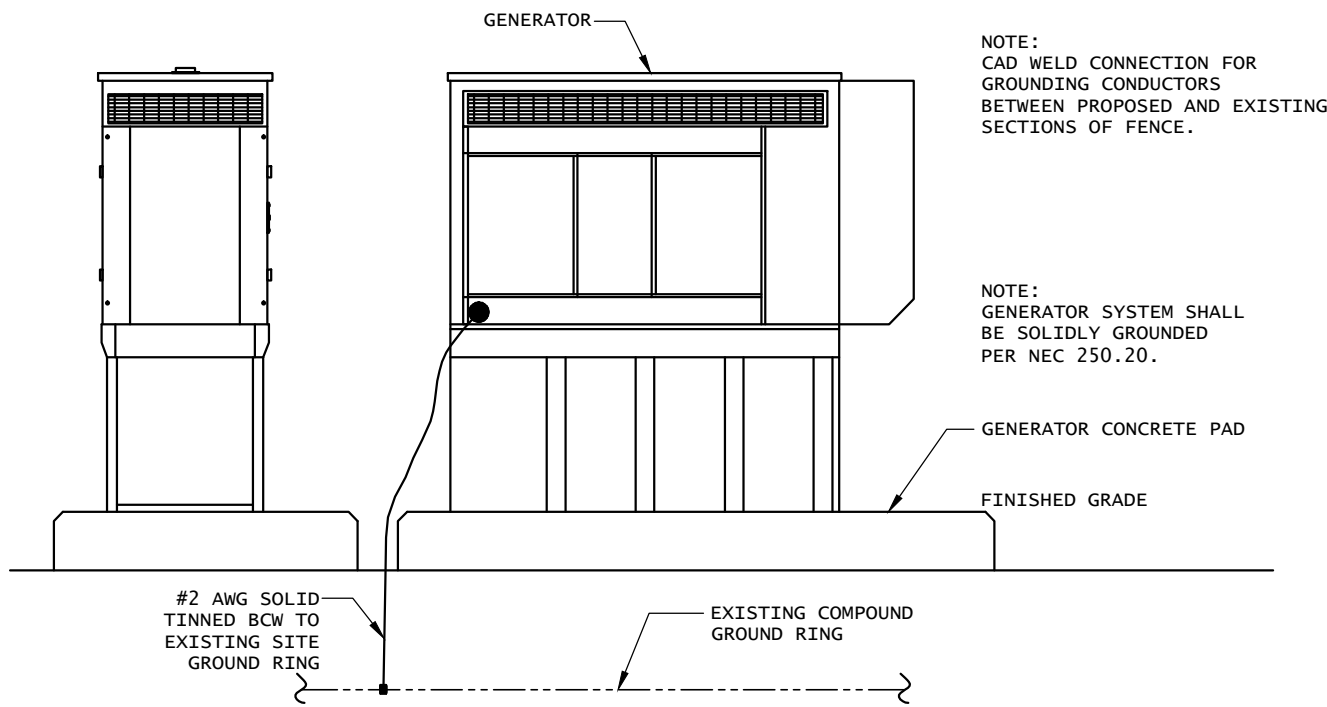


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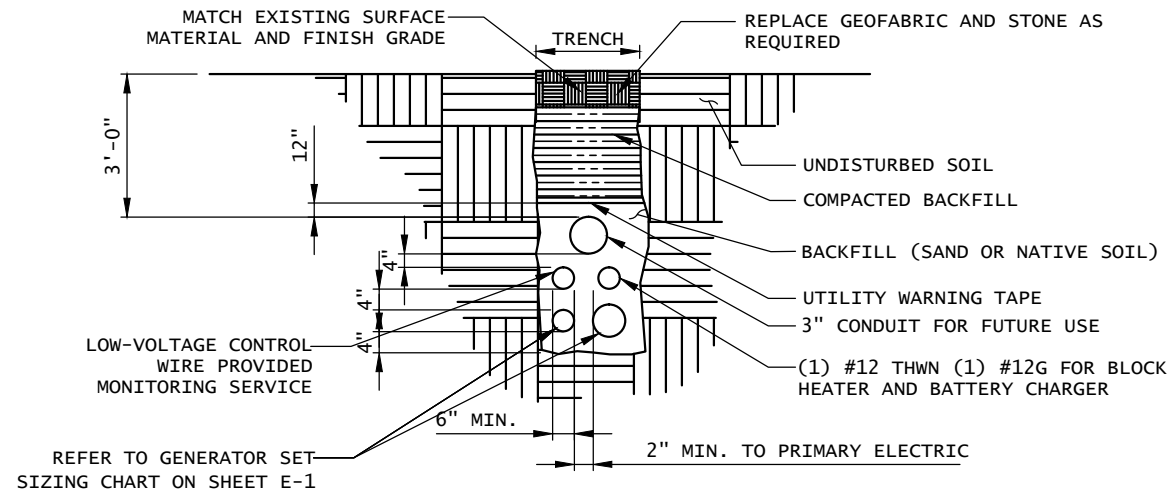
SHEET TITLE:  
ELECTRICAL  
DETAILS

SHEET NUMBER: E-2  
REV. #: 0





1 GENERATOR ELEVATION  
SCALE: NTS

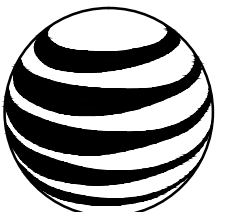


2 TRENCH DETAIL  
SCALE: NTS

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

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

- 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



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

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STAMP HERE:

DRAWN BY:	KSR
CHECKED BY:	SB
DATE DRAWN:	01-13-14
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SHEET TITLE:  
**COMPOUND  
GROUNDING**

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