

Fontaine, Lisa

From: Bob Watson <bwatson@turningmillconsultants.com>
Sent: Thursday, June 13, 2013 11:34 PM
To: Cunliffe, Fred
Cc: Martin, David C.; Fontaine, Lisa
Subject: AT&T Generator Additions
Attachments: 10071358 West Hartford-Elmwood GD-Gen-13.57 CD Rev A.pdf; 10126685 Ansonia GD-Gen-13.77 CD Rev A.pdf; 10035415 North Waterbury GD-Gen-13.34 CD Rev A 05-01-2013.pdf; 10035397 Monroe Center GD-Gen-13.33 CD Rev A 05-08-2013.pdf; 10035243 Shelton Pwr MT GD-Gen-13.25 CD Rev A 05-08-2013.pdf; 10070948 Bridgeport Beardsley GD-Gen-13.42 CD Rev A 04-30-2013.pdf; 10071130 Milford GD-Gen-13.48 CD Rev A 04-30-2013.pdf; 10071197 Orange Transfer Station GD-Gen-13.52 CD Rev A 04-30-2013.pdf; 10034976 Wolcot-West GD-Gen-13.81 CD Rev A.pdf; 10035024 West Haven GD-Gen-13.13 CD Rev A.pdf

Mr. Cunliffe

As we discussed earlier this week 9 of the 10 sites we filed CSC applications for have diesel fueled generators proposed with 250 Gal double walled belly fuel tanks. They are:

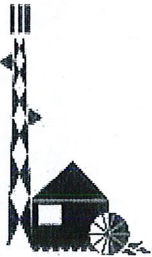
FARMDALE DRIVE	WATERBURY
1 BURWELL ROAD	WEST HAVEN
17 DAYBREAK LANE	SHELTON
500 MOOSE HILL ROAD	MONROE
299 SHEFFIELD STREET	WATERBURY
1320 CHOPSEY HILL ROAD	BRIDGEPORT
434 BOSTON POST ROAD	MILFORD
617 SOUTH ORANGE CENTER ROAD	ORANGE
1030 NEW BRITAIN AVENUE	WEST HARTFORD

We also have one site where the generator will be fueled by liquid propane

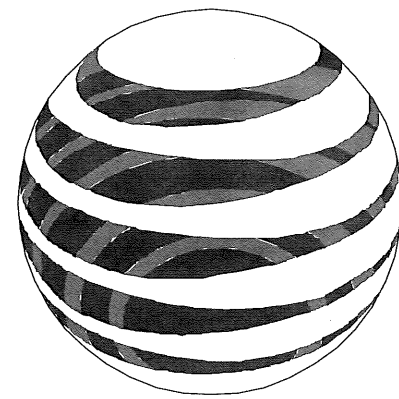
1 DEERFIELD LANE	ANSONIA
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I am attaching electronic copies of the full construction drawings for your convenience and at Lisas request.

Thanks for your help and let me know if I can assist with anything else



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Cell: (508) 243-7129



at&t
Mobility

MONROE CENTER CT2203



500 ENTERPRISE DRIVE
SUITE 3A
ROCKY HILL, CT 06067
TEL (860) 509-1042

SITE
MONROE CENTER
CT2203

PROJECT MANAGEMENT FIRM
GENERAL DYNAMICS
Wireless Services

FA NUMBER
10035397

A&E FIRM
TURNING MILL CONSULTANTS, INC.
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SITE ADDRESS:
500 MOOSE HILL ROAD
MONROE, CT 06468

SUBMITTALS

REV	DATE	DESCRIPTION
A	03/29/13	ISSUED FOR REVIEW

PROFESSIONAL STAMP

A&E FIRM

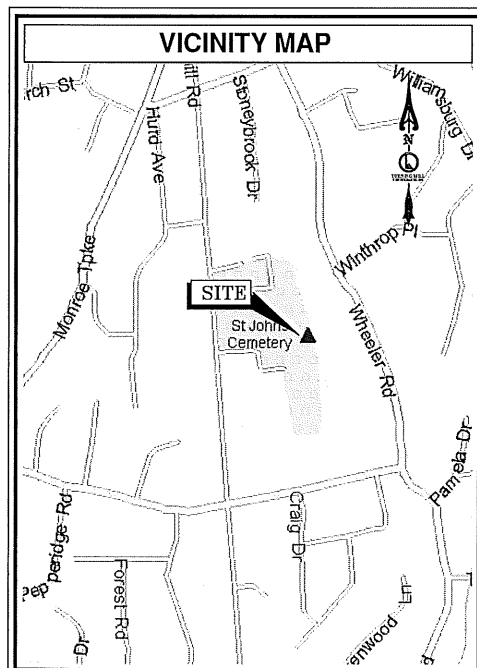
DRAWN BY: TDC

CHECKED BY: MFJ

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:
G-001



DIRECTIONS:
DEPART 500 ENTERPRISE DR, ROCKY HILL, CT 06067 ON ENTERPRISE DR, TURN LEFT ONTO CAPITOL BLVD, TURN LEFT ONTO WEST ST, TAKE RAMP (LEFT) ONTO I-91, AT EXIT 17, TURN RIGHT ONTO RAMP, TAKE RAMP (LEFT) ONTO SR-15 [WILBUR CROSS PKY], AT EXIT 5B, TAKE RAMP (RIGHT) ONTO SR-34 [DERBY AVE], TURN LEFT ONTO SR-34 [MAIN ST], TURN LEFT ONTO LOCAL ROAD, TAKE RAMP (RIGHT) ONTO SR-8, AT EXIT 14, TURN RIGHT ONTO RAMP, TURN RIGHT ONTO SR-110 [HOWE AVE], KEEP STRAIGHT ONTO SR-110 [LEAVENWORTH RD], BEAR LEFT ONTO SR-110 [SHELTON RD], TURN LEFT ONTO MOOSE HILL RD, ARRIVE 500 MOOSE HILL RD, MONROE, CT 06468

CONSULTANTS

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A&E FIRM

PROJECT SUMMARY

SITE NAME:
MONROE CENTER

SITE NUMBER:
CT2203

SITE ADDRESS:
500 MOOSE HILL ROAD
MONROE, CT 06468

FA NUMBER:
10035397

APPLICANT:
AT&T MOBILITY
5500 ENTERPRISE DRIVE
SUITE 3A
ROCKY HILL, CT 06067

APPROX. CENTER OF ARRAY:
LAT: 41° 19' 15.44" N LONG: -73° 12' 05.13" W

SITE DESCRIPTION:
AT&T MOBILITY TO INSTALL EMERGENCY POWER GENERATOR.

APPROVALS

OWNER/OWNER'S AGENT	DATE
GENERAL DYNAMICS CONSTRUCTION	DATE
AT&T MOBILITY	DATE

THE ABOVE PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES OR MODIFICATIONS THEY MAY IMPOSE.

SHEET INDEX

DRAWING DESCRIPTION	REV
G-001 TITLE SHEET	A
E-101 COMPOUND PLAN & SHELTER LAYOUT	A
E-401 CONSTRUCTION DETAILS	A

SUPPLEMENTAL NOTES

- ALL MATERIALS AS WELL AS METHODS AND PROCESSES USED IN THE PERFORMANCE OF THE WORK SHALL CONFORM TO THE STANDARDS OF THE CONNECTICUT STATE BUILDING CODE AND THE GENERAL CONTRACTOR SHALL BECOME FAMILIAR WITH SUCH REQUIREMENTS.
- THE GENERAL CONTRACTOR SHALL COMPLY WITH THE RULES OF THE SITE AS TO THE HOURS OF AVAILABILITY OF HANDLING MATERIALS, EQUIPMENT AND DEBRIS TO AVOID CONFLICT AND INTERFERENCE WITH FACILITY BUILDING OPERATIONS. CONTRACTORS SHALL BE RESPONSIBLE FOR HANDLING MATERIALS.
- GENERAL CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION OF OLD AND NEW WORK DURING THE CONSTRUCTION PERIOD. SHOULD DAMAGE OCCUR, THE CONTRACTOR SHALL REPAIR AT THEIR OWN EXPENSE.
- CONTRACTOR TO CONTROL CLEANING TO PREVENT DIRT OR DUST FROM LEAVING THE JOB SITE AND INFILTRATING AREAS NOT INVOLVED IN THE PROJECT. GENERAL CONTRACTOR SHALL KEEP THE AREA REASONABLY CLEAN AND DUST FREE DURING WORKING HOURS AND LEGALLY DISPOSE OF ALL RUBBISH DAILY.
- CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF WORKERS, PUBLIC AND PROPERTY.
- WHATEVER WORK IS DONE WHERE NO DEFINITE DETAILS OR INSTRUCTIONS ARE GIVEN, THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE BEST PRACTICE; THAT IS, AS THE WORK IS IN ACCORDANCE WITH THE HIGHEST STANDARDS OF THE CONSTRUCTION INDUSTRY, WITHOUT EXTRA CHARGE.
- ALL WORK IS TO BE DONE IN A FIRST CLASS MANNER AND IN ACCORDANCE WITH THE BEST PRACTICES WITH FIRST CLASS MATERIALS. NO EXTRAS WILL BE PERMITTED UNLESS SUBMITTED IN WRITING BY THE CONTRACTOR.
- ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR, UNLESS OTHERWISE NOTED. ALL CONTRACTORS SHALL SUBMIT IN WRITING THIS GUARANTEE.
- UNLESS SPECIFICALLY NOTED OTHERWISE, ALL WORK SHOWN ON THESE DRAWINGS SHALL BE PERFORMED BY THE GENERAL CONTRACTOR.
- GENERAL CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE WORK OF ALL OTHER CONTRACTORS, WHETHER THEIR OWN OR THOSE ON SEPARATE CONTRACT. PRIOR TO COMMENCING WORK, THE GENERAL CONTRACTOR SHALL PROVIDE A WORK SCHEDULE TO SHOW ESTIMATED COMMENCEMENT AND COMPLETION DATES OF EACH TRADE, IDENTIFYING ALSO LONG LEAD ITEMS.
- WHEN "APPROVED EQUAL," "EQUAL TO" OR OTHER GENERAL QUALIFYING TERMS ARE USED, IT SHALL BE BASED UPON THE REVIEW AND APPROVAL BY AT&T. NO MATERIAL SUBSTITUTIONS SHALL BE MADE WITHOUT FIRST INFORMING AT&T SUBMIT SUBSTITUTE MATERIAL SPECIFICATIONS AND SAMPLES FOR APPROVAL, IN WRITING, PRIOR TO COMMENCEMENT OF WORK.

- A COPY OF THE LATEST SET OF CONSTRUCTION DRAWINGS SHALL BE KEPT AT THE JOB SITE FOR REVIEW BY AT&T.
- THE CONTRACTOR SHALL HAVE A COMPETENT SUPERINTENDENT ON THE PREMISES AT ALL TIMES WHEN THE WORK IS IN PROGRESS.
- THE CONTRACTOR SHALL INCORPORATE THE CONSTRUCTION DRAWINGS, AS WELL AS AT&T CELLULAR SITE SPECIFICATIONS FOR BIDDING THIS PROJECT.
- AT THE TIME OF BID WALK THE LOCATION OF THE PROPOSED AUTOMATIC TRANSFER SWITCH MAY CHANGE DUE TO SPACE/SPECIFIED ATS. CONFIRM LOCATION WITH AT&T PROJECT MANAGER. NO ADDITIONAL CHARGES WILL BE ALLOWED.

GENERAL PROJECT NOTES

- THE FACILITY IS AN UNOCCUPIED SPECIALIZED MOBILE RADIO FACILITY.
- PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIAL, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE SITE AND NOTIFY THE PROJECT MANAGER OF ANY DISCREPANCIES BEFORE STARTING ANY WORK.
- CONTRACTOR TO PROVIDE COMPLETE SET OF AS BUILT DRAWINGS WITHIN 10 WORKING DAYS OF PROJECT COMPLETION.
- NO FIELD PLANIMETRIC SURVEY WAS CONDUCTED BY TMC, TO VERIFY EXISTING FIELD CONDITIONS NOR EQUIPMENT. DRAWINGS ARE BASED ON CLIENT SUPPLIED PLANS AND SPECIFICATIONS.



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SUBMITTALS

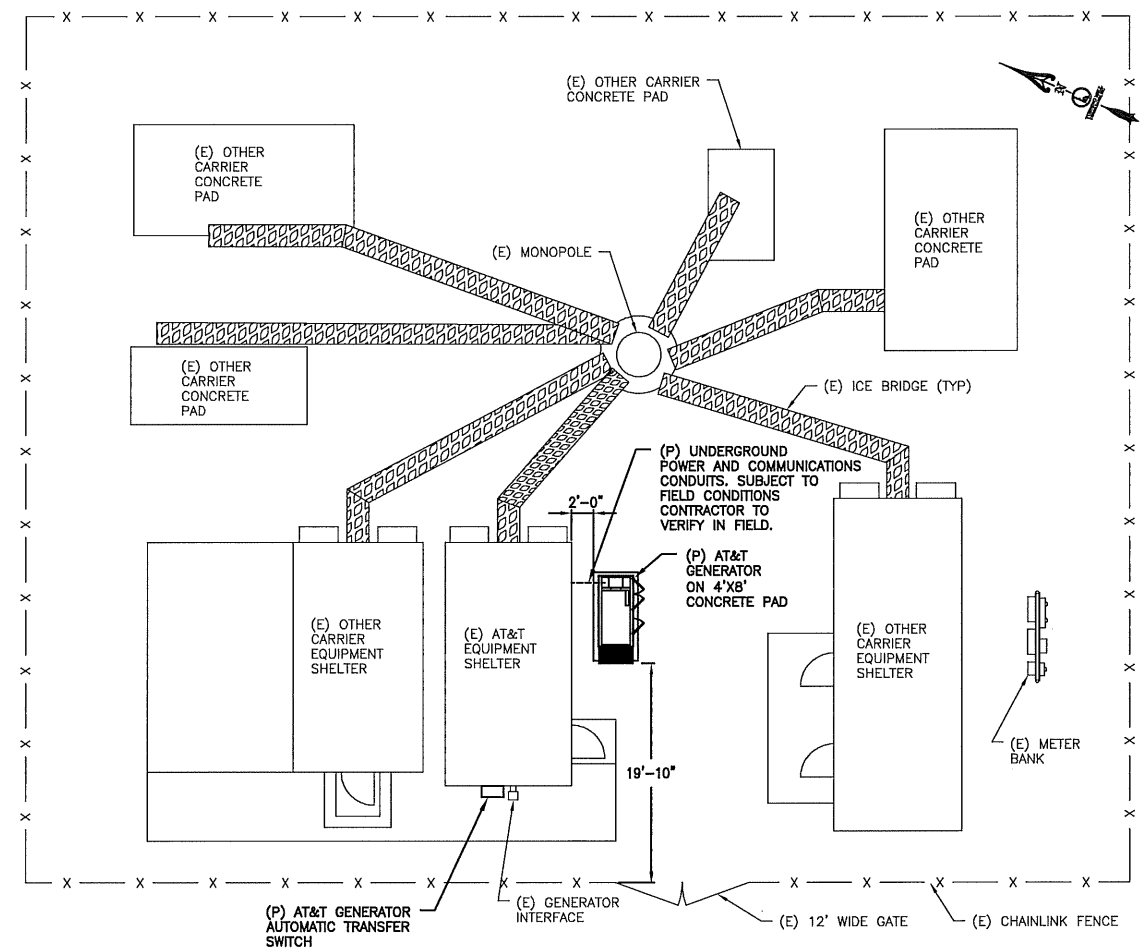
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PROFESSIONAL STAMP

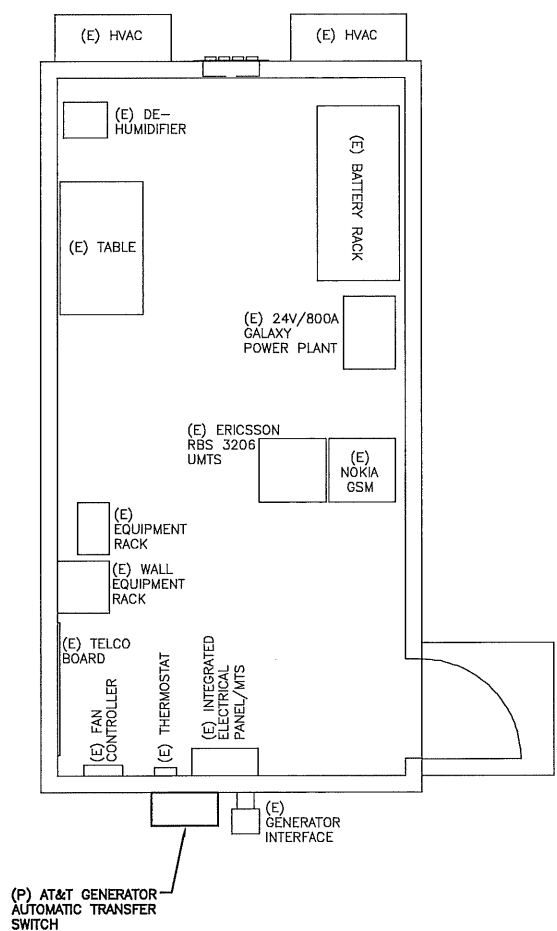
DRAWN BY: TDC
CHECKED BY: MFJ

SHEET TITLE:
COMPOUND PLAN & SHELTER LAYOUT

SHEET NUMBER:
E-101



1
COMPOUND PLAN
SCALE: 1" = 100'



2
SHELTER LAYOUT
SCALE: 3/8" = 1'-0"

CONTRACTOR TO VERIFY EXISTING MUX LOCATION. IF MUX LOCATION IS OUTSIDE OF AT&T EQUIPMENT SHELTER, 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 SHELTER.

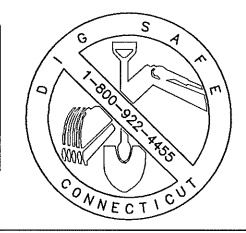
SUBMITTALS

PROFESSIONAL STAMP

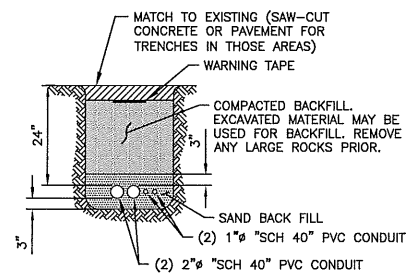
DRAWN BY: TDC
CHECKED BY: MFJ
SHEET TITLE:

**CONSTRUCTION
DETAILS**

SHEET NUMBER:
E-401



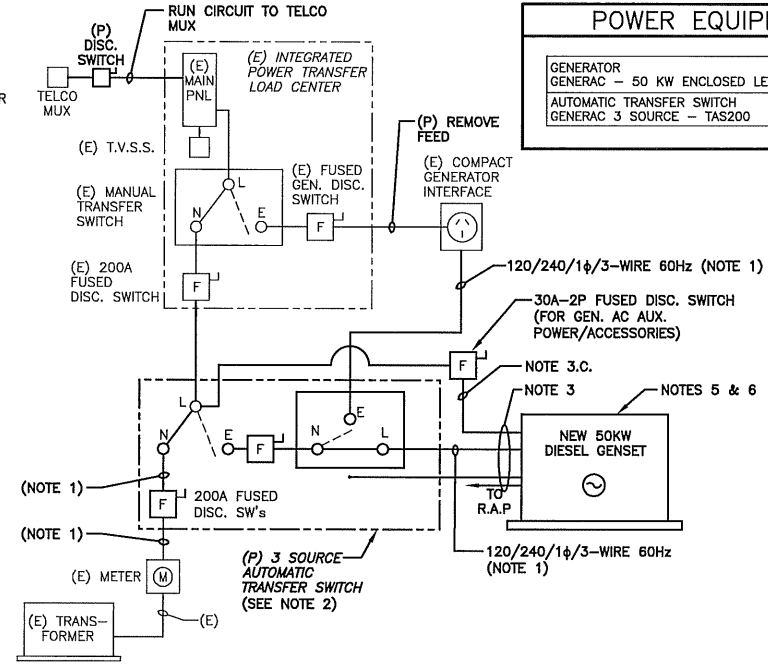
CONTRACTOR TO VERIFY EXISTING MUX LOCATION. IF MUX LOCATION IS OUTSIDE OF AT&T EQUIPMENT SHELTER, CONTRACTOR IS TO FIELD VERIFY THE PRESENCE OF EMERGENCY BACK-UP SERVICE TO THE MUX. IF EMERGENCY BACK-UP SERVICE IS NOT PRESENT, CONTRACTOR IS TO ROUTE NEW SERVICE FROM AT&T SHELTER.



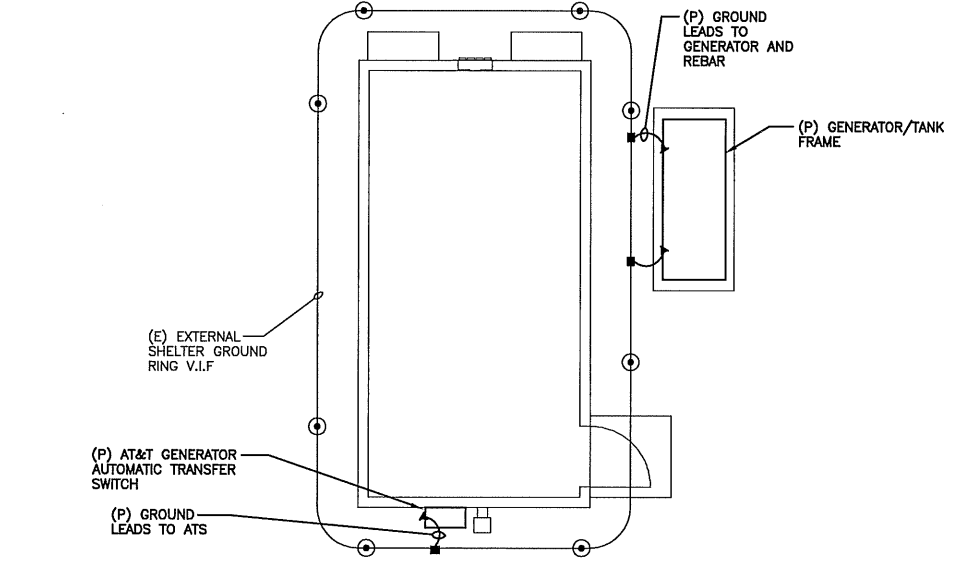
3 TYPICAL TRENCH DETAIL
E-401 SCALE: NONE

POWER EQUIPMENT

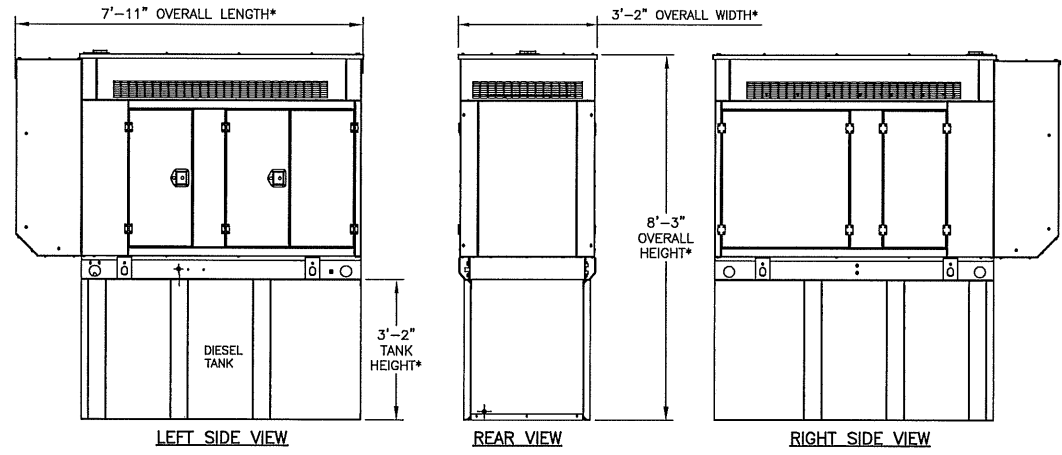
GENERATOR GENERAC - 50 KW ENCLOSED LEVEL 2A	01
AUTOMATIC TRANSFER SWITCH GENERAC 3 SOURCE - TAS200	02



4 GENERATOR UPGRADE ONE LINE DIAGRAM
E-401 SCALE: NONE



2 GROUNDING DIAGRAM
E-401 SCALE: NONE

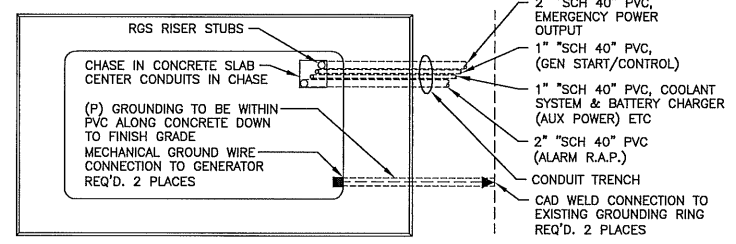


1 TYPICAL 50KW DIESEL GENERATOR DETAIL
E-401 SCALE: NONE

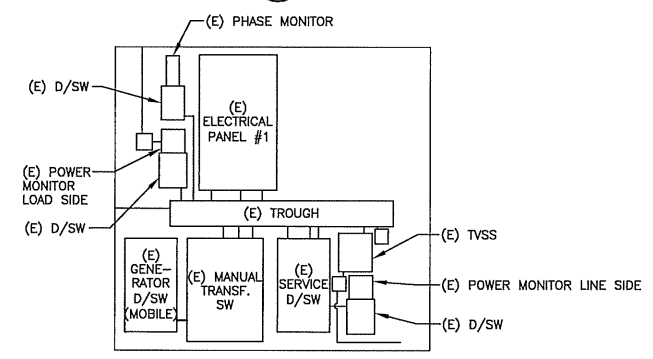
*NOTE: CONTRACTOR SHALL VERIFY GENSET DIMENSIONS AND WEIGHT WITH SUPPLIER OF ACTUAL GENSET SHIPPED TO SITE. IF NECESSARY, MODIFY DIMENSIONS OF CONCRETE PAD TO SUIT. GD-GEN-13.33

- NOTES:
- 120/240/1φ/3W, 3-#3/0 CU 75°C+#6G THWN/XHHW, 2°C MIN.
 - ATS/AUTOMATIC TRANSFER SWITCH-200A-2P-SOLID NEUTRAL LOCATE ON INTERIOR WALL OF EXISTING EQUIPMENT SHELTER-NEMA 3R ENCLOSURE. AT THE TIME OF PRECONSTRUCTION BID WALK IF THERE IS LIMITED SPACE TO LOCATE TRANSFER SWITCH INSIDE SHELTER OR THE INSTALLATION WILL DIMINISH AT&T'S FUTURE UTILIZATION OF THE EQUIPMENT SHELTER THE CONTRACTOR SHALL MOUNT THE NEMA 3R ATS ON THE EXTERIOR OF THE SHELTER IN A CONVENIENT NON-INTRUSIVE LOCATION UNLESS OTHERWISE NOTED.
 - NEW CONDUITS TO GENSET - THRU INTERIOR WALL, DOWN INTERIOR WALL AND UNDERGROUND TO NEW GENSET. PROVIDE 4 CONDUITS.
 - A. 1-2°C, W/ 3-3/0+ #6G, EMERGENCY POWER
 - B. 1-1°C, FOR CONTROL CABLE-BELDEN 3105A TSP. (GEN.START)
 - C. 3 #12+G, 1°C, FROM DISC. SWITCH TO GENSET (FOR AUXILIARY POWER CIRCUITS) 120/240V-1φ-3W+G UTILITY AC SUPPLY.
 - D. 1-2°C W/ BELDEN 3105A TSP FOR RAP, AND 2 #14 (DC).
- NOTE: SUPPLIER OF GENSET AND ATS SHALL PROVIDE ELECTRICAL CONTRACTOR WITH A COMPLETE INSTALLATION WIRING DIAGRAM. ELECTRICAL CONTRACTOR TO PROVIDE ALL REQUIRED CONDUITS AND WIRING, MODIFY AND/OR ADD TO CONDUIT AND WIRE REQUIREMENTS SHOWN IN NOTE 3 AS NECESSARY TO ACCOMMODATE GENSET REQUIREMENTS.
- PROVIDE LB'S ON CONDUITS AT TRANSITION FROM INTERIOR TO INTERIOR. SEAL WALL PENETRATIONS.
 - PROVIDE NEW 200A-2P BREAKER AT NEW GENSET FOR AT&T WIRELESS POWER CONNECTION-3#3/0+6G-2°C. ALSO PROVIDE BREAKERS, CONTROLS/ALARMS, ETC AND CONDUIT AND WIRING BACK TO BUILDING.
 - NEW 50KW DIESEL GENSET-GENERAC SD050 WITH LEVEL 2A SOUND ATTENUATION AND WP ENCLOSURE. MOUNT ON NEW CONCRETE PAD. PROVIDE ALL CONTROLS, ALARMS, OPTIONS AND ACCESSORIES AS SPECIFIED.
- PROVIDE THE FOLLOWING GENSET OPTIONS:
- a. OIL HEATER
 - b. CRITICAL EXHAUST SILENCER
 - c. FLEXIBLE FUEL LINES
 - d. FUEL FILTER
 - e. 120VAC COOLANT HEATER
 - f. BATTERY HEATER
 - g. 10A UL FLOAT/EQUALIZE BATTERY CHARGER
 - h. MAIN LINE CIRCUIT BREAKER
 - i. 24 LIGHT REMOTE ANNUNCIATOR
 - j. REMOTE RELAY PANEL (16)
 - k. OIL TEMPERATURE
 - l. REMOTE EMERGENCY STOP
 - m. LOW FUEL

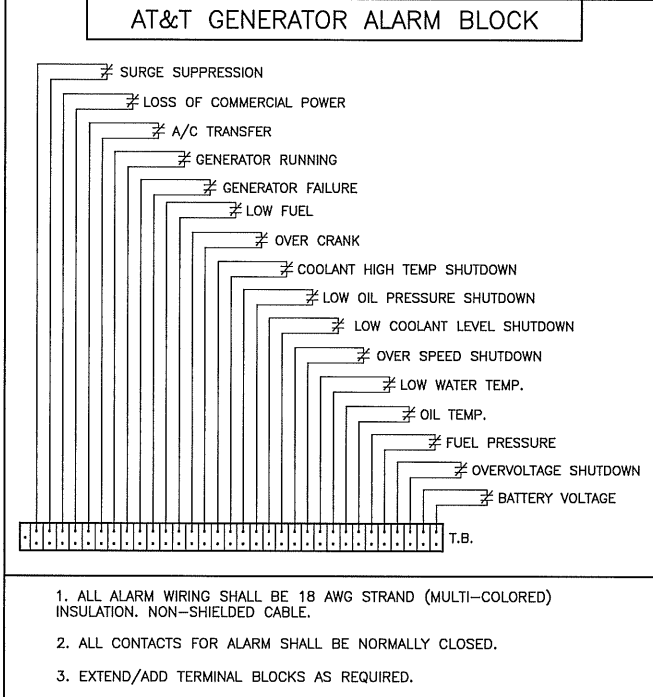
- CONTRACTOR SHALL VISIT SITE TO BECOME FAMILIAR WITH EXISTING SITE PRIOR TO ORDERING ANY EQUIPMENT. PROVIDE ALL FILTERS, FUSES, FLUIDS, ETC FOR A COMPLETE INSTALLATION, SUCH AS FUEL, OIL, COOLANT, LUBE ETC.
- PROVIDE NECESSARY EXCAVATION AND BACK-FILL TO ACCOMMODATE CONCRETE BASE AND UNDERGROUND CONDUITS. RESTORE LAWN, SEED, SOD, ETC TO SATISFACTION OF OWNER.
- ATS SHALL BE INCLUDED AS PART OF THE GENSET PACKAGE. THE GENSET SUPPLIER SHALL PROVIDE A COMPLETE INSTALLATION-WIRING DIAGRAM TO THE ELECTRICAL CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING GENERATOR MANUFACTURER'S INSTALLATION DOCUMENTATION FOR GENERATOR INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION INCLUDING BUT NOT LIMITED TO CHASE LOCATIONS, SIZING, ALL SLAB PENETRATIONS, GENERATOR MOUNTING REQUIREMENTS AND ALL ASSOCIATED INSTALLATION REQUIREMENTS.
- WORK SHALL COMPLY WITH LATEST EDITION OF NEC AND LOCAL CODES.
- CONTRACTOR SHALL CONTACT DIG SAFE, OR SIMILAR ORGANIZATION, 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, TO LOCATE UNDERGROUND UTILITIES.
- RISERS TO BE RGS.
- ELECTRICAL CONTRACTOR TO SHOW ALL CHANGES ON AS BUILT DRAWINGS.



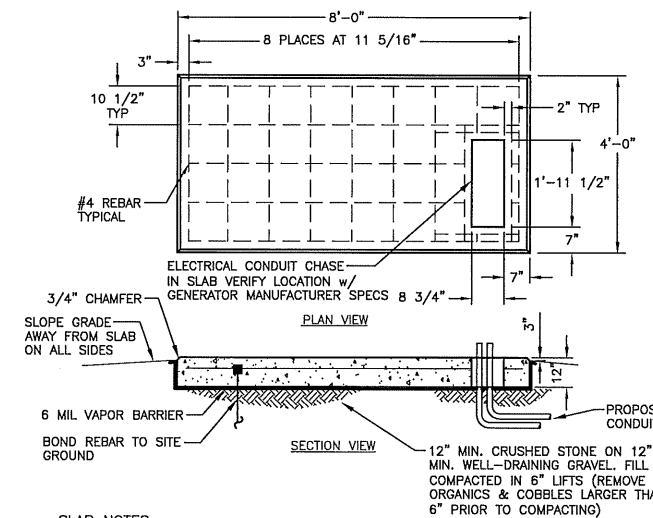
6 GENERATOR ELECTRICAL CONNECTIONS
E-401 SCALE: NONE



5 TYPICAL ELECTRICAL ELEVATIONS
E-401 SCALE: NONE (SHELTER INTERIOR WILL VARY PER SITE)



8 ALARM AND CONTROL WIRING
E-401 SCALE: NONE



- SLAB NOTES:
- USE FLEXIBLE CONDUIT CONNECTIONS TO ALLOW FOR SLAB MOVEMENT.
 - CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE ACI-318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMENDED TO DATE. SLUMP SHALL BE 2" AND MAXIMUM AGGREGATE SHALL BE 3/4". PROVIDE 6% ENTRAINED AIR.
 - REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60.
 - FASTEN GENERATOR TO SLAB ACCORDING TO MANUFACTURER'S SPECIFICATIONS

7 GENERATOR SLAB DETAIL
E-401 SCALE: NONE