

# CITY OF LYNCHBURG

## FIRE STATION #2 GENERATOR UPGRADE

### LYNCHBURG, VIRGINIA

PROJECT CODE: FIRE STATION #2 BM146

FOR CONSTRUCTION  
OCTOBER 31, 2016

**GENERAL NOTES:**

1. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED FOR USE AS FABRICATION DRAWINGS. THESE DRAWINGS INDICATE THE GENERAL AND APPROXIMATE SIZE AND LOCATION OF MATERIAL. FIELD VERIFY ALL DIMENSIONS AND LOCATIONS PRIOR TO BEGINNING WORK. ALL UTILITIES NOTED ON PLANS ARE APPROXIMATE AND CONTRACTOR SHALL FIELD VERIFY LOCATION.
2. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS, INCLUDING, BUT NOT LIMITED TO, THE 2012 VIRGINIA UNIFORM STATEWIDE BUILDING CODE (JULY 14, 2014) AND ASSOCIATED CODES OF REFERENCE. REFER TO APPLICABLE CODES LIST THIS DRAWING.
3. CONTRACTOR SHALL OBTAIN ALL BUILDING AND TRADE PERMITS FOR CONSTRUCTION; HOWEVER, THE CITY OF LYNCHBURG SHALL WAIVE ALL FEES REQUIRED FOR PERMITS.
4. ALL MATERIAL SHALL BE NEW UNLESS OTHERWISE NOTED. MATERIALS ARE BASED ON THE INDICATED MANUFACTURERS/MODELS AND ARE INTENDED ONLY TO SHOW THE GENERAL SIZE, CONFIGURATION, LOCATION, CONNECTIONS, AND SUPPORT FOR INDICATED MATERIAL WITH RELATION TO OTHER BUILDING SYSTEMS. MATERIAL BY ANY MANUFACTURER THAT MEETS THE SCHEDULED CRITERIA IS ACCEPTABLE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ACTUAL INSTALLED MATERIAL AND ASSOCIATED CHANGES.
5. CONTRACTOR SHALL COORDINATE THE WORK WITH EXISTING CONDITIONS, INCLUDING BEAMS, COLUMNS, SITE FEATURES, AND OTHER OBSTRUCTIONS, WHETHER OR NOT SUCH IS SHOWN ON DRAWINGS.
6. CONTRACTOR SHALL COORDINATE THE WORK BETWEEN ALL TRADES. MATERIAL LOCATIONS SHALL BE COORDINATED BETWEEN CIVIL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND DEMOLITION PLANS TO AVOID CONFLICTS.
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11. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A SET OF AS-BUILT DRAWINGS ON SITE WHICH INDICATE IN RED ALL DEVIATIONS FROM ORIGINAL CONSTRUCTION DOCUMENTS, INCLUDING APPROVED CONSTRUCTION CHANGE ORDERS. AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE A/E AT THE TIME OF SUBSTANTIAL COMPLETION. AS-BUILT DRAWINGS SHALL BE CLEARLY LEGIBLE AND COMPLETE.
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18. CONTRACTOR SHALL PROTECT THE BUILDING, ADJACENT FEATURES, ROADWAYS, WALKWAYS, SITE IMPROVEMENTS, EXTERIOR PLANTINGS, LANDSCAPING, ETC. AS REQUIRED FROM DAMAGE AND CORRECT DAMAGE RESULTING FROM CONSTRUCTION ACTIVITIES TO THE SATISFACTION OF THE OWNER.
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21. CONTRACTOR SHALL PROVIDE PRE-DEMOLITION PHOTOGRAPHIC OR VIDEOGRAPHIC DOCUMENTATION TO SHOW EXISTING CONDITIONS OF FINISHED SURFACES IN WORK AREA AND ADJOINING CONSTRUCTION INCLUDING SITE STORAGE AND ACCESS AREAS PRIOR TO PRE-CONSTRUCTION MEETING AND A MINIMUM OF 10 WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.
22. CONTRACTOR SHALL NOTIFY OWNER OF ANY INTERRUPTION OF UTILITIES INCLUDING BUT NOT LIMITED TO POWER, WATER, COMMUNICATIONS, ETC AND COORDINATE OUTAGE WITH OWNER AND ALL BUILDING TENANTS.
23. ANY ROAD/PARKING LOT CLOSURE SHALL BE DONE IN ACCORDANCE WITH THE LATEST VERSION OF THE VIRGINIA WORK AREA PROTECTION MANUAL.
24. DEFINITIONS:  
  
FURNISH: SUPPLY AND DELIVER TO PROJECT SITE FOR INSTALLATION BY OTHERS.  
  
INSTALL: INSTALL ITEMS FURNISHED BY OTHERS, INCLUDING UNLOADING, TEMPORARILY STORING, UNPACKING, AND ASSEMBLY.  
  
PROVIDE: FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.  
  
REMOVE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF-SITE UNLESS INDICATED TO BE REMOVED AND SALVAGED OR REMOVED AND REINSTALLED.  
  
REMOVE AND REINSTALL: DETACH ITEMS FROM EXISTING CONSTRUCTION, PREPARE FOR REUSE, AND REINSTALL WHERE INDICATED.  
  
REMOVE AND SALVAGE: CAREFULLY DETACH FROM EXISTING CONSTRUCTION, IN A MANNER TO PREVENT DAMAGE, AND DELIVER TO OWNER.

**DRAWING LIST:**

DRAWING NO	TITLE
T1	TITLE SHEET
E1	LEGEND, ABBREVIATIONS, AND GENERAL NOTES
E2	PARTIAL FLOOR PLAN - ELECTRICAL AND DETAILS
E3	FURNACE ROOM DEMOLITION AND CONSTRUCTION PLAN
E4	PARTIAL SITE PLAN - ELECTRICAL
E5	SCHEDULES
E6	INTERNET MONITORING

**GENERAL INFORMATION:**

<b>PROJECT INFORMATION:</b>	CITY OF LYNCHBURG
<b>AGENCY:</b>	CITY OF LYNCHBURG GENERATOR UPGRADES
<b>PROJECT TITLE:</b>	BM146
<b>PROJECT CODES:</b>	
<b>BUILDING INFORMATION:</b>	FIRE STATION 2
<b>BUILDING NAME/NUMBER:</b>	2006 GRACE ST. LYNCHBURG, VIRGINIA 24504
<b>WORK PERMITTED:</b>	GENERATOR UPGRADE
<b>APPLICABLE CODES &amp; STANDARDS:</b>	
<b>BUILDING CODES:</b>	2012 VIRGINIA UNIFORM STATEWIDE BUILDING CODE - VUSBC (EFFECTIVE JULY 14, 2014) NATIONAL ELECTRICAL CODE - NFPA-70 (2011)

**ASBESTOS DISCLOSURE STATEMENT:**

AN ASBESTOS INSPECTION WAS NOT PERFORMED. THE CONTRACTOR SHALL NOTIFY THE CITY'S PROJECT MANAGER OF ANY SUSPECTED MATERIALS FOR REMOVAL BY THE CITY OF LYNCHBURG.

**LEAD PAINT DISCLOSURE STATEMENT:**

AN INSPECTION TO IDENTIFY LEAD CONTAINING OR COATED BUILDING COMPONENTS HAS NOT BEEN CONDUCTED. ASSUME THAT ALL PAINTED SURFACES CONTAIN LEAD-BASED PAINT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL VIRGINIA OCCUPATIONAL SAFETY AND HEALTH (VOSH) REGULATIONS AS THEY PERTAIN TO EMPLOYEE EXPOSURES TO LEAD.

**DISCLAIMER STATEMENT:**

VIRGINIA A&E ASSUMES NO RESPONSIBILITY FOR THE ADEQUACY OR ACCURACY OF THE ASBESTOS AND LEAD BASED PAINT INFORMATION PROVIDED ABOVE BY THE OWNER. THE CONTRACTOR SHALL ADDRESS ANY RELATED QUESTIONS TO THE OWNER'S PROJECT MANAGER.

VIRGINIA A&E, PLLC  
1115 VISTA PARK DRIVE  
FOREST, VA 24551  
PHONE: (434) 316-6001



VAE PROJECT NO: 15110

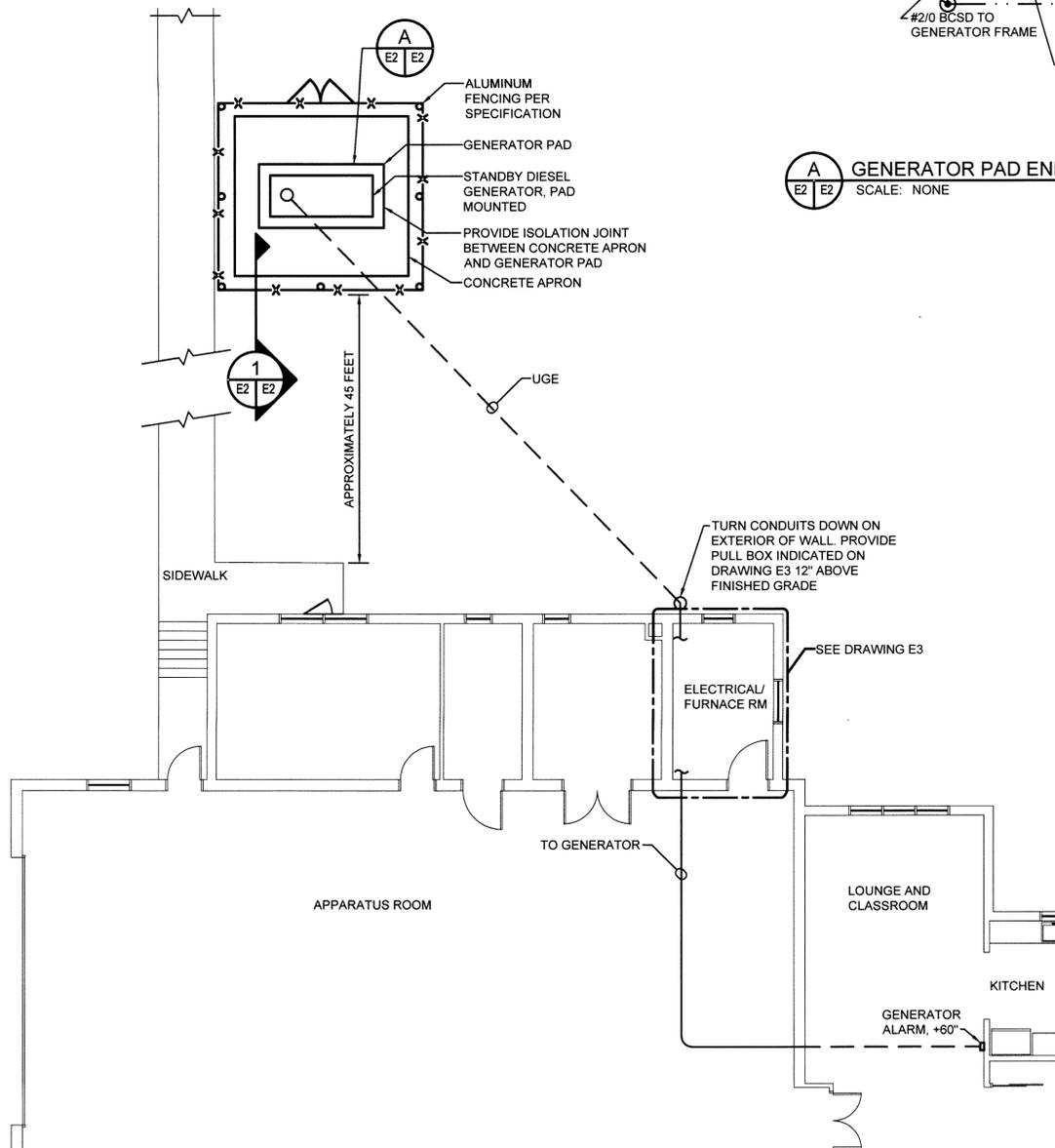


Job No: 15110

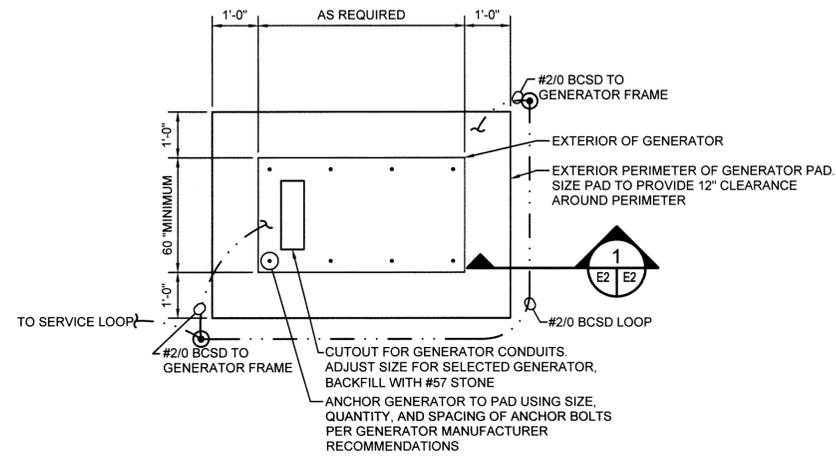
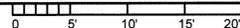
Drawing No:

T1





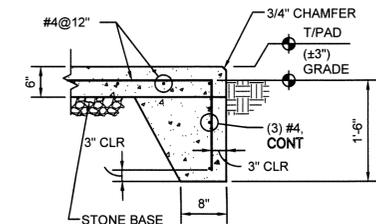
NORTH  
**PARTIAL FLOOR PLAN - ELECTRICAL**  
 SCALE: 1/8"=1'-0"



**A** GENERATOR PAD ENLARGED PLAN  
 SCALE: NONE

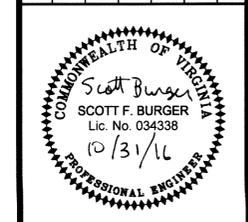
**CONCRETE AND REINFORCEMENT NOTES:**

1. GENERATOR PAD SOIL BEARING CAPACITY SHALL BE A MINIMUM 1,500 PSF. CONTRACTOR SHALL ENGAGE INSPECTOR TO VERIFY SOIL BEARING CAPACITY AND REINFORCEMENT PLACEMENT PRIOR TO CONCRETE PLACEMENT. SUBMIT INSPECTION REPORT TO A/E FOR REVIEW.
2. CONCRETE SHALL BE NORMAL WEIGHT 145 PCF WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
3. REINFORCING BARS SHALL BE ROLLED FROM NEW BILLET STEEL CONFORMING WITH ASTM A615/A615M, GRADE 60, UNLESS OTHERWISE NOTED.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR ALL REINFORCEMENT, UNLESS OTHERWISE NOTED:  
 A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"  
 B. CONCRETE EXPOSED TO EARTH OR WEATHER: #5 BAR AND SMALLER: 1 1/2"
5. LAP ALL REINFORCING SPLICES AT LEAST 48 BAR DIAMETERS (24" MINIMUM) UNLESS OTHERWISE NOTED.
6. ALL REINFORCING SHALL BE SECURELY WIRED TOGETHER IN FORMS AS CALLED FOR IN "PLACING REINFORCING BARS" BY CRSI.
7. STONE BASE SHALL BE 4" THICK, #57 STONE.



**1** GENERATOR PAD SECTION  
 SCALE: NONE

NO.	BY	REVISIONS	DATE

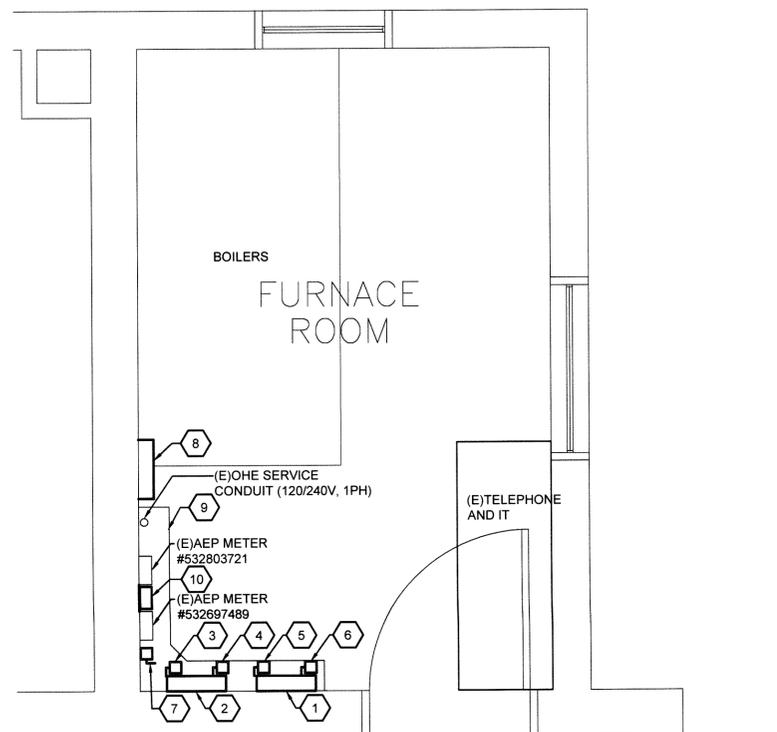


**Virginia A & E**  
 VIRGINIA A&E, PLLC  
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 PHONE: (434) 316-6001

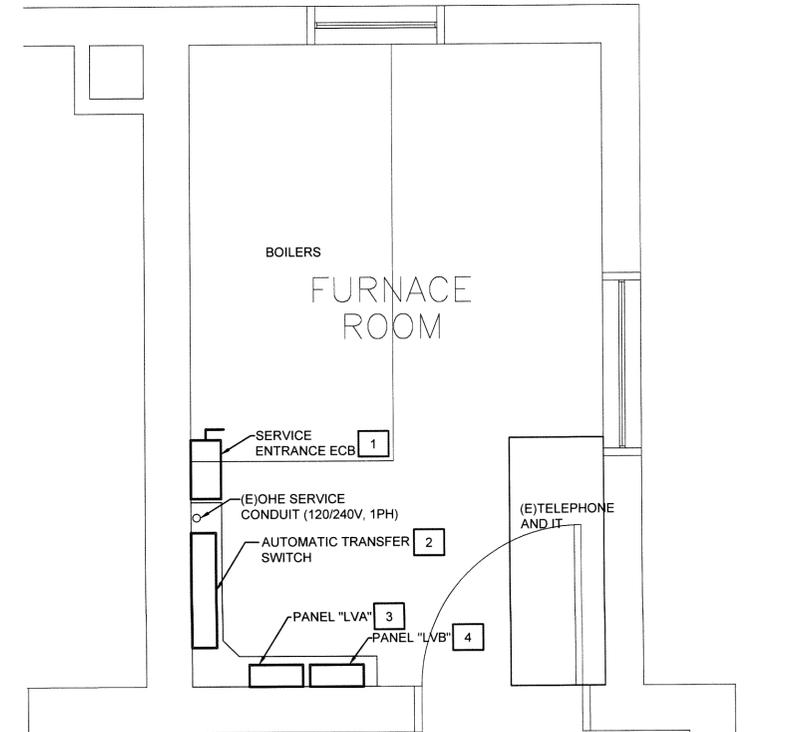
**CITY OF LYNCHBURG  
 FIRE STATION #2 GENERATOR**  
 CLIENT PROJECT CODE: BM1146  
 LYNCHBURG, VIRGINIA

**PARTIAL FLOOR PLAN - ELECTRICAL**  
 PROJECT NO.: 15110  
 DATE: 31 OCT 16

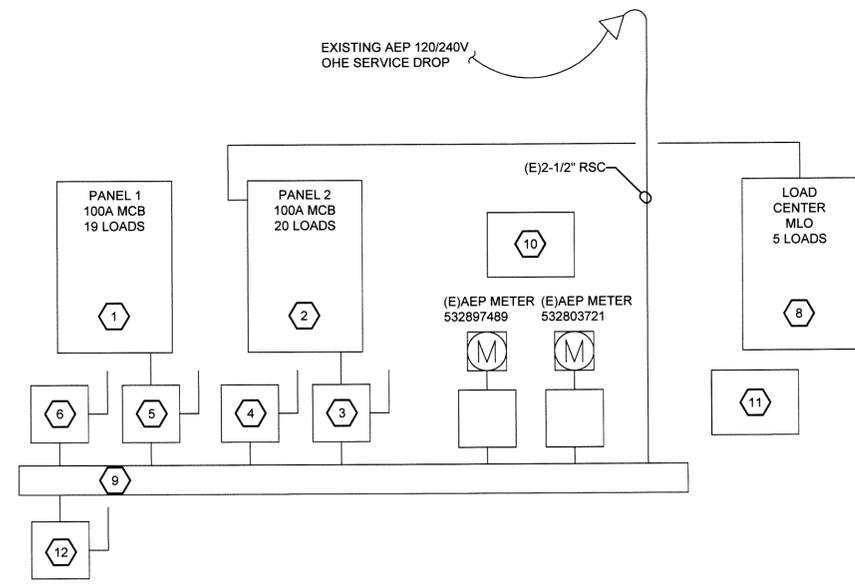
Full Scale Verification  
 0" 1"  
 Drawing No.: **E2**



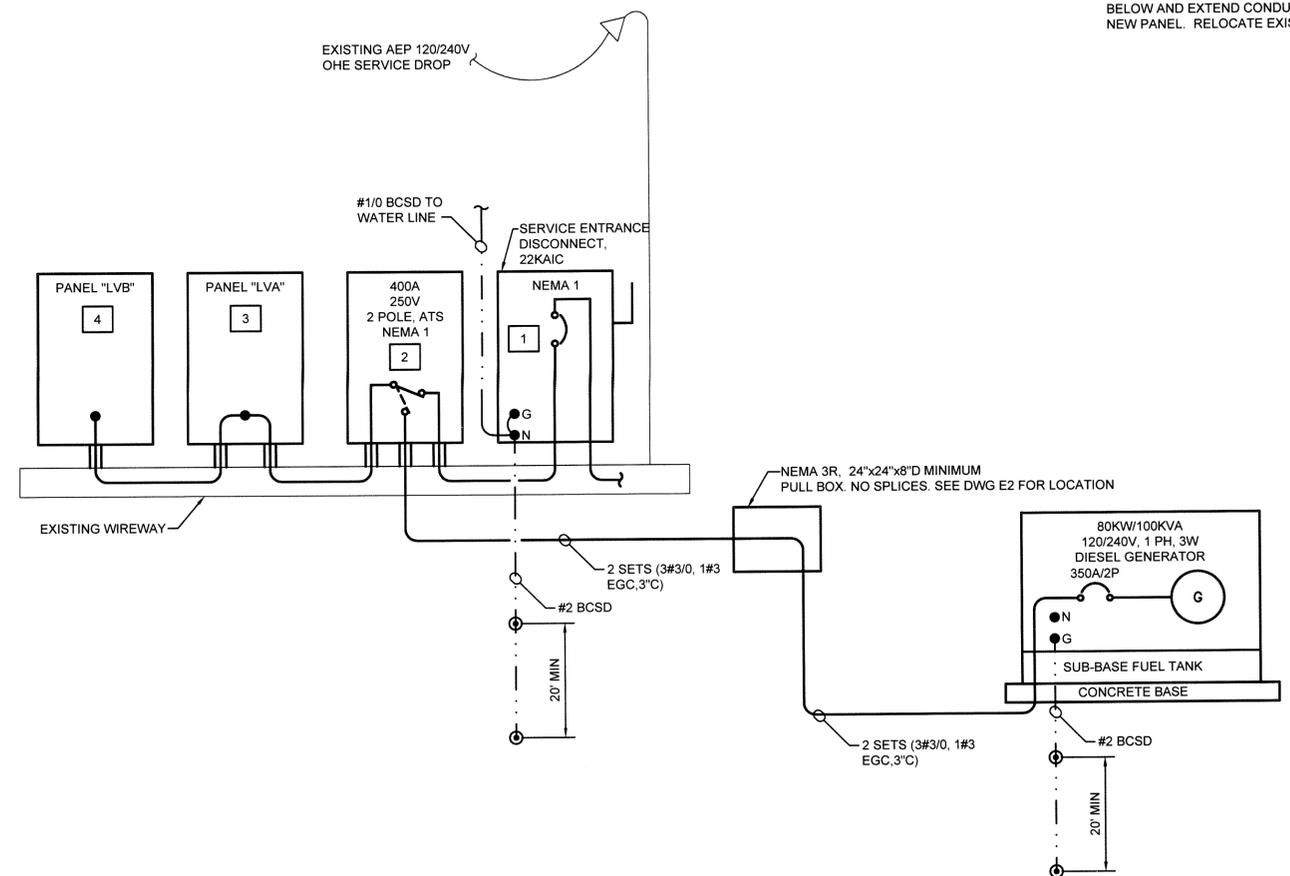
**FURNACE ROOM - DEMOLITION PLAN**  
SCALE: 1/2"=1'-0"



**FURNACE ROOM - CONSTRUCTION PLAN**  
SCALE: 1/2"=1'-0"



**EXISTING POWER DISTRIBUTION DIAGRAM - DEMOLITION**  
SCALE: NONE



**CONSTRUCTION/FINAL POWER DISTRIBUTION DIAGRAM**  
SCALE: NONE

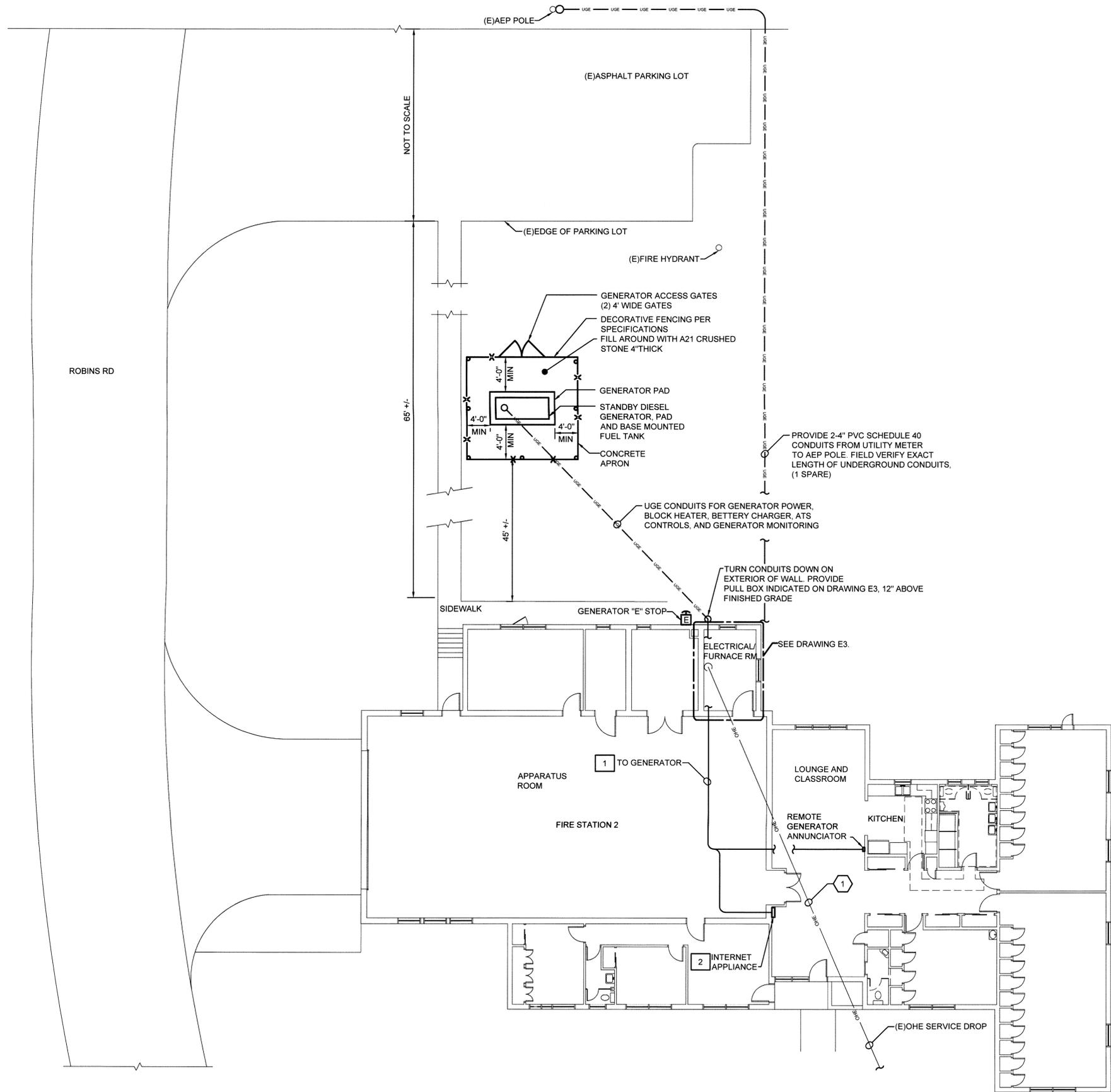
**X DEMOLITION NOTES:**

1. EXISTING 100 A MCB, 120/240 VOLT, SINGLE PHASE LOAD CENTER (PANEL 1) SHALL BE DEMOLISHED. EXISTING BRANCH CIRCUITS SHALL REMAIN AND TERMINATED IN NEW PANEL "LVA".
2. EXISTING 100 A MCB, 120/240 VOLT, SINGLE PHASE LOAD CENTER (PANEL 2) SHALL BE DEMOLISHED. EXISTING BRANCH CIRCUITS SHALL REMAIN AND TERMINATED IN NEW PANEL "LVB".
3. EXISTING 60 AMP, 2 POLE FUSED SAFETY SWITCH SHALL BE DEMOLISHED.
4. EXISTING 60 AMP, 2 POLE FUSED SAFETY SWITCH SHALL BE DEMOLISHED.
5. EXISTING 60A, 2 POLE FUSED SAFETY SWITCH SHALL BE DEMOLISHED. NOT IN USE.
6. EXISTING 60 AMP, 2 POLE FUSED SAFETY SWITCH SHALL BE DEMOLISHED.
7. EXISTING 30 AMP, 2 POLE FUSED SAFETY SWITCH SHALL BE DEMOLISHED. SWITCH PRESENTLY FEEDS EMERGENCY LIGHTING.
8. EXISTING 100 A MLO, 120/240 VOLT, SINGLE PHASE LOAD CENTER ("NO NAME") SHALL BE DEMOLISHED. EXISTING BRANCH CIRCUITS SHALL BE EXTENDED TO AND TERMINATED IN NEW PANEL "LVB". EXISTING LOAD CENTER CAN SHALL BE USED AS A JUNCTION BOX AND LABELED AS SUCH.
9. EXISTING WIREWAY SHALL REMAIN.
10. EXISTING APPROXIMATELY 12 X 12 X 4 JUNCTION BOX SHALL BE RELOCATED PER THE CONSTRUCTION PLAN THIS DRAWING.
11. EXISTING JUNCTION BOX TO REMAIN.
12. EXISTING MANUAL TRANSFER SWITCH SHALL BE DEMOLISHED INCLUDING ALL CONDUIT AND WIRING ASSOCIATED WITH SWITCH.

**XX CONSTRUCTION NOTES:**

1. 400 AMP, 250 VOLT, 2 POLE, NEMA 1, HEAVY DUTY, SERVICE ENTRANCE RATED ENCLOSED CIRCUIT BREAKER. CIRCUIT BREAKER SHALL BE RATED FOR 22,000 AIC MINIMUM.
2. 400 AMP, 250 VOLT, 2 POLE, NEMA 1, AUTOMATIC TRANSFER SWITCH. ATS SHALL BE RATED FOR 22,000 AIC MINIMUM.
3. BRANCH CIRCUIT PANEL "LVA". RELOCATE EXISTING BRANCH CIRCUITS PER THE DEMO DRAWINGS. IF EXISTING BRANCH CIRCUIT CONDUCTORS ARE NOT LONG ENOUGH TO EXTEND INTO THE NEW PANEL, PROVIDE SPLICES IN THE TROUGH BELOW AND EXTEND CONDUCTORS OF THE SAME SIZE FROM SPLICE TO THE NEW PANEL. RELOCATE EXISTING BRANCH CIRCUITS PER THE DEMO DRAWINGS.
4. BRANCH CIRCUIT PANEL "LVB". RELOCATE EXISTING BRANCH CIRCUITS PER THE DEMO DRAWINGS. IF EXISTING BRANCH CIRCUIT CONDUCTORS ARE NOT LONG ENOUGH TO EXTEND INTO THE NEW PANEL, PROVIDE SPLICES IN THE TROUGH BELOW AND EXTEND CONDUCTORS OF THE SAME SIZE FROM SPLICE TO THE NEW PANEL. RELOCATE EXISTING BRANCH CIRCUITS PER THE DEMO DRAWINGS.

	DATE
	REVISIONS
	BY
	NO.
VIRGINIA A&E, PLLC 1115 VISTA PARK DRIVE FOREST, VIRGINIA 24551 PHONE: (434) 316-6001	
<b>CITY OF LYNCHBURG          FIRE STATION #2 GENERATOR</b> CLIENT PROJECT CODE: BM146 LYNCHBURG, VIRGINIA	
<b>FURNACE ROOM          DEMOLITION AND CONSTRUCTION          PLANS</b>	
PROJECT NO: 15110	DATE: 31 OCT 16
Full Scale Verification 0" = 1"	
Drawing No.: <h1 style="margin: 0;">E3</h1>	



**xx** DEMOLITION NOTES:

- EXISTING OVERHEAD SERVICE DROP TO BE RE-WORKED.

**xx** CONSTRUCTION NOTES:

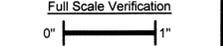
- 1" CONDUIT WITH CONDUCTORS AS REQUIRED BY GENERATOR MANUFACTURER. ROUTE AS HIGH AS POSSIBLE.
- PROVIDE 1" CONDUITS BETWEEN INTERNET APPLIANCE AND TRANSFER SWITCH AND GENERATOR OR GENERATOR ANNUNCIATOR PANEL.

NO.	BY	REVISIONS	DATE



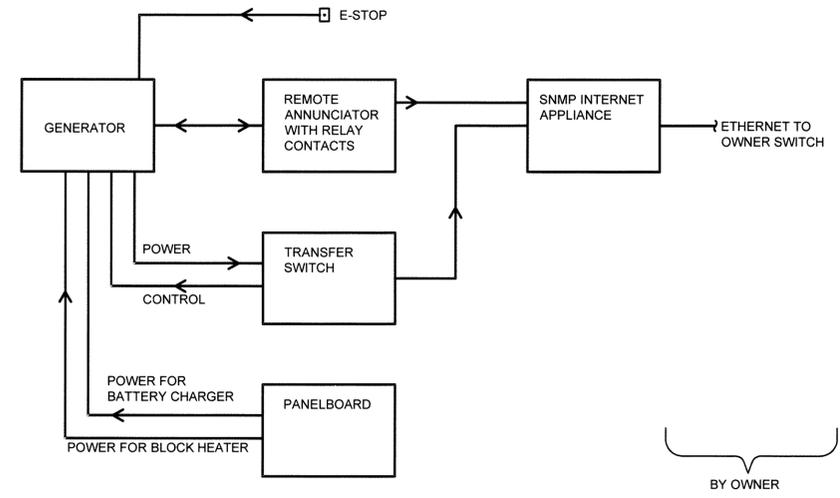
**CITY OF LYNCHBURG  
FIRE STATION #2 GENERATOR**  
CLIENT PROJECT CODE: BM1146  
LYNCHBURG, VIRGINIA

**PARTIAL SITE PLAN - ELECTRICAL**  
PROJECT NO.: 15110  
DATE: 31 OCT 16



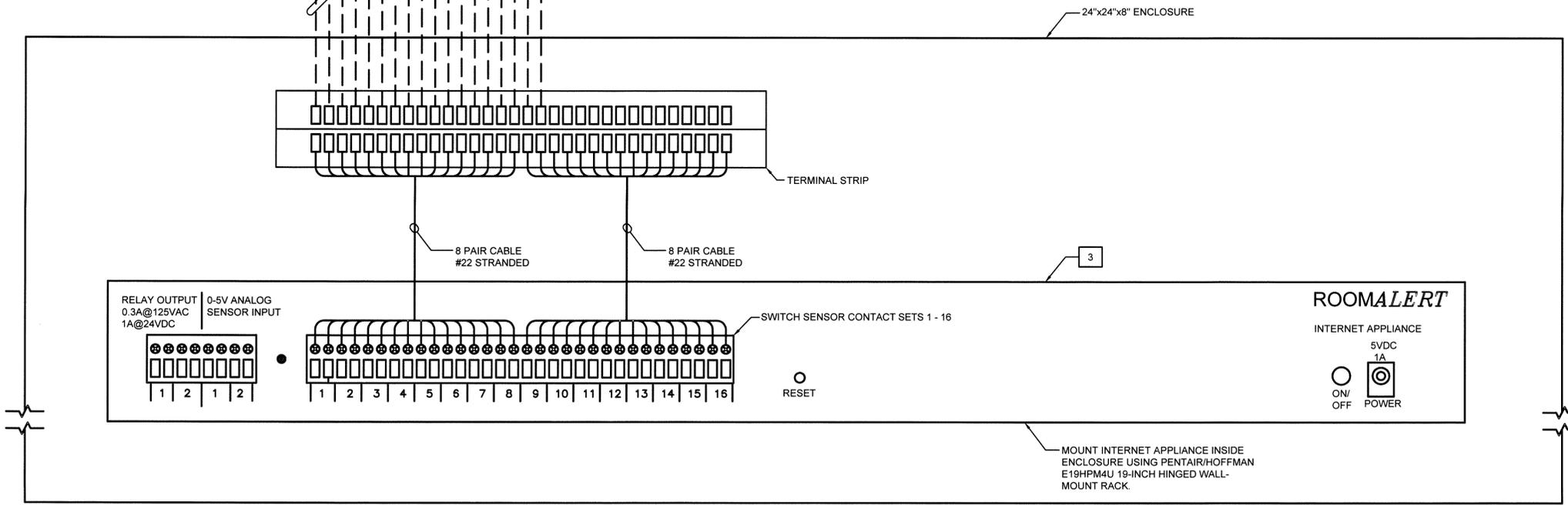
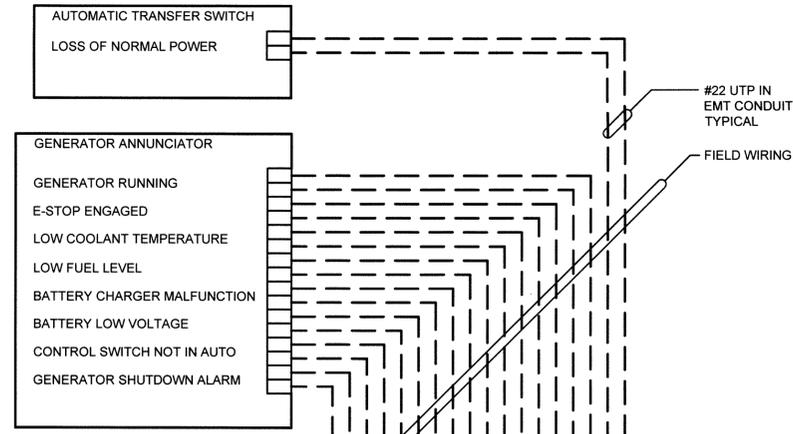
Drawing No.: **E4**





**GENERATOR INTERCONNECTION**  
SCALE: NONE

- INTERNET APPLIANCE SPECIFICATIONS:**
1. PROVIDE SNMP INTERNET APPLIANCE WITHIN 24"x24"x8" ENCLOSURE. PROVIDE ONE PER GENERATOR.
  2. INTERNET SNMP APPLIANCE ENCLOSURE TO INCLUDE TERMINAL STRIPS AND INTERNET APPLIANCE.
  3. PROVIDE INTERNET APPLIANCE. AVTECH ROOM ALERT RA32E-TH1-RAS.



**INTERNET APPLIANCE ENCLOSURE ELEVATION AND INTERCONNECTION**  
SCALE: NONE

NO.	BY	REVISIONS	DATE



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**FIRE STATION #2 GENERATOR**  
 CLIENT PROJECT CODE: BM1146  
 LYNCHBURG, VIRGINIA

**INTERNET MONITORING**

Full Scale Verification  
 0" 1"  
 Drawing No.:

**E6**

# CITY OF LYNCHBURG

## FIRE STATION #4 GENERATOR UPGRADES

### LYNCHBURG, VIRGINIA

PROJECT CODE: FIRE STATION #4 BM147

FOR CONSTRUCTION  
OCTOBER 31, 2016

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INSTALL: INSTALL ITEMS FURNISHED BY OTHERS, INCLUDING UNLOADING, TEMPORARILY STORING, UNPACKING, AND ASSEMBLY.  
  
PROVIDE: FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.  
  
REMOVE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF-SITE UNLESS INDICATED TO BE REMOVED AND SALVAGED OR REMOVED AND REINSTALLED.  
  
REMOVE AND REINSTALL: DETACH ITEMS FROM EXISTING CONSTRUCTION, PREPARE FOR REUSE, AND REINSTALL WHERE INDICATED.  
  
REMOVE AND SALVAGE: CAREFULLY DETACH FROM EXISTING CONSTRUCTION, IN A MANNER TO PREVENT DAMAGE, AND DELIVER TO OWNER.

**DRAWING LIST:**

DRAWING NO	TITLE
T1	TITLE SHEET
E1	LEGEND, ABBREVIATIONS, AND GENERAL NOTES
E2	PARTIAL SITE PLAN - ELECTRICAL
E3	PARTIAL FLOOR PLAN - DEMOLITION
E4	PARTIAL FLOOR PLAN - CONSTRUCTION
E5	DETAILS
E6	INTERNET MONITORING

**GENERAL INFORMATION:**

<b>PROJECT INFORMATION:</b>	CITY OF LYNCHBURG CITY OF LYNCHBURG GENERATOR UPGRADES BM147
<b>AGENCY:</b>	
<b>PROJECT TITLE:</b>	
<b>PROJECT CODES:</b>	
<b>BUILDING INFORMATION:</b>	FIRE STATION 4 410 BIRCH ST. LYNCHBURG, VIRGINIA 24503
<b>BUILDING NAME/NUMBER:</b>	
<b>WORK PERMITTED:</b>	GENERATOR UPGRADE
<b>APPLICABLE CODES &amp; STANDARDS:</b>	
<b>BUILDING CODES:</b>	2012 VIRGINIA UNIFORM STATEWIDE BUILDING CODE - VUSBC (EFFECTIVE JULY 14, 2014) NATIONAL ELECTRICAL CODE - NFPA-70 (2011)

**ASBESTOS DISCLOSURE STATEMENT:**

AN ASBESTOS INSPECTION WAS NOT PERFORMED. THE CONTRACTOR SHALL NOTIFY THE CITY'S PROJECT MANAGER OF ANY SUSPECTED MATERIALS FOR REMOVAL BY THE CITY OF LYNCHBURG.

**LEAD PAINT DISCLOSURE STATEMENT:**

AN INSPECTION TO IDENTIFY LEAD CONTAINING OR COATED BUILDING COMPONENTS HAS NOT BEEN CONDUCTED. ASSUME THAT ALL PAINTED SURFACES CONTAIN LEAD-BASED PAINT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL VIRGINIA OCCUPATIONAL SAFETY AND HEALTH (VOSH) REGULATIONS AS THEY PERTAIN TO EMPLOYEE EXPOSURES TO LEAD.

**DISCLAIMER STATEMENT:**

VIRGINIA A&E ASSUMES NO RESPONSIBILITY FOR THE ADEQUACY OR ACCURACY OF THE ASBESTOS AND LEAD BASED PAINT INFORMATION PROVIDED ABOVE BY THE OWNER. THE CONTRACTOR SHALL ADDRESS ANY RELATED QUESTIONS TO THE OWNER'S PROJECT MANAGER.

VIRGINIA A&E, PLLC  
1115 VISTA PARK DRIVE  
FOREST, VA 24551  
PHONE: (434) 316-6001



VAE PROJECT NO: 15111



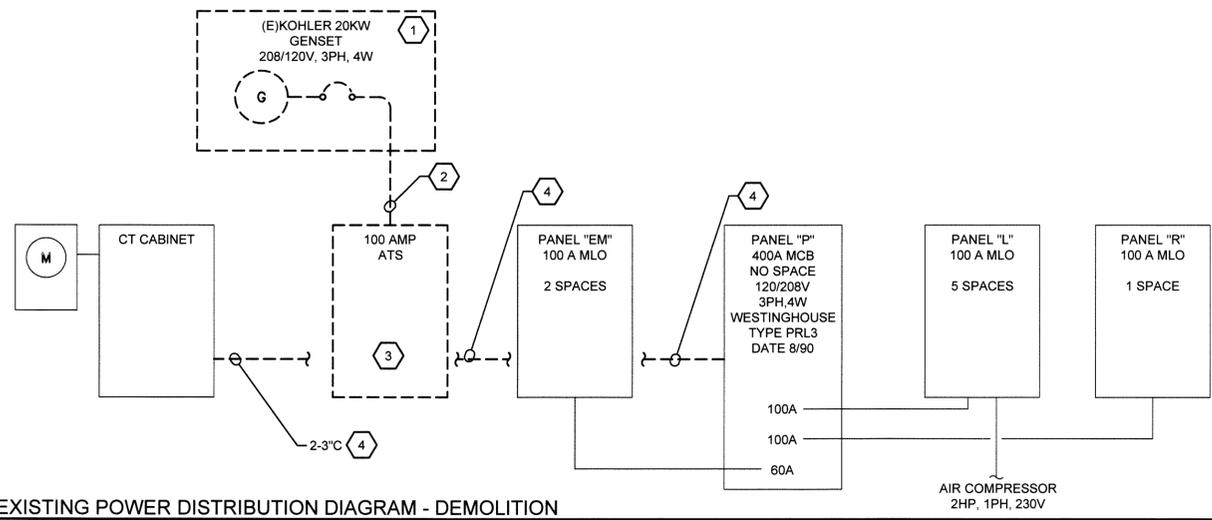
Job No.: 15111

Drawing No.:

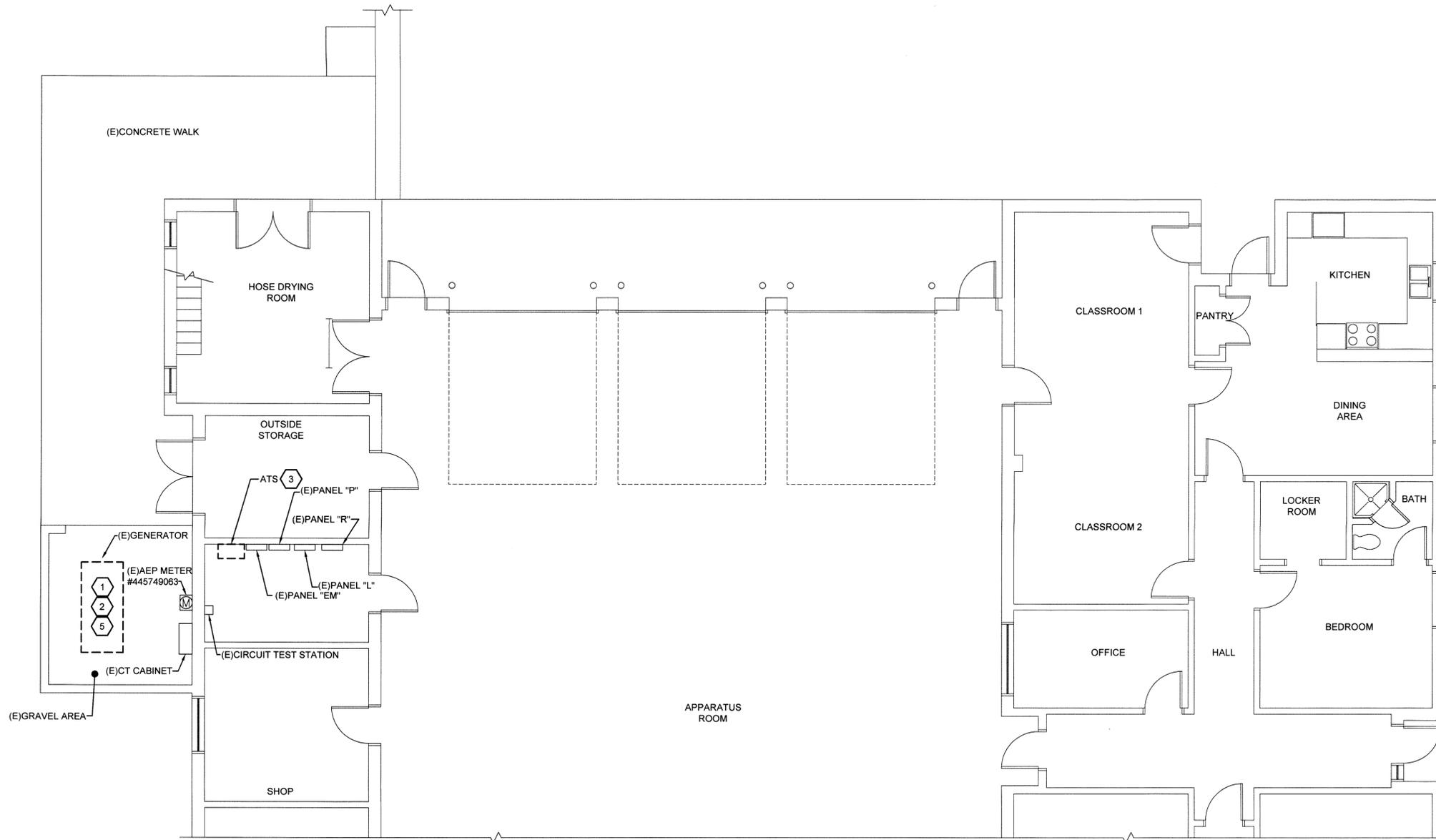
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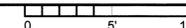




EXISTING POWER DISTRIBUTION DIAGRAM - DEMOLITION  
SCALE: NONE



NORTH  
PARTIAL FLOOR PLAN - DEMOLITION  
SCALE: 3/16"=1'-0"



- DEMOLITION NOTES:
- EXISTING 20KW, KOHLER GENERATOR, BASE MOUNTED TANK AND 100A ATS SHALL BE REMOVED AND RETAINED BY CITY OF LYNCHBURG. RELOCATE TO LOCATION DETERMINED BY RANDY DALTON.
  - DEMO EXISTING UGE FROM GENERATOR TO ATS COMPLETELY INCLUDING GENERATOR CONCRETE PAD. BACK FILL WITH LANDSCAPING STONE TO MATCH EXISTING.
  - DISCONNECT ATS AND TURN OVER TO OWNER.
  - DEMO SERVICE CONDUITS AND CONDUCTORS TO PANEL "P".
  - EXISTING GENERATOR STANDBY SYSTEM SHALL REMAIN IN SERVICE AS LONG AS POSSIBLE. COORDINATE REMOVING THIS SYSTEM WITH RANDY DALTON.

NO.	BY	REVISIONS	DATE

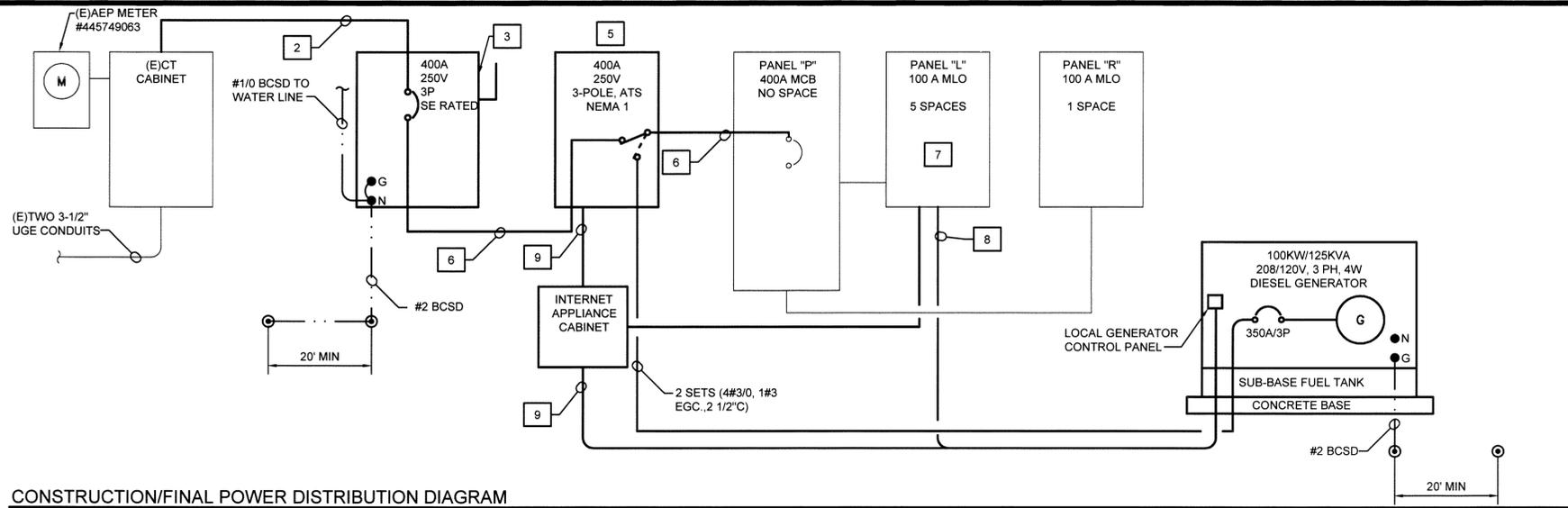


**Virginia A & E**  
 VIRGINIA A&E, PLLC  
 1115 VISTA PARK DRIVE  
 FOREST, VIRGINIA 24551  
 PHONE: (434) 316-6001

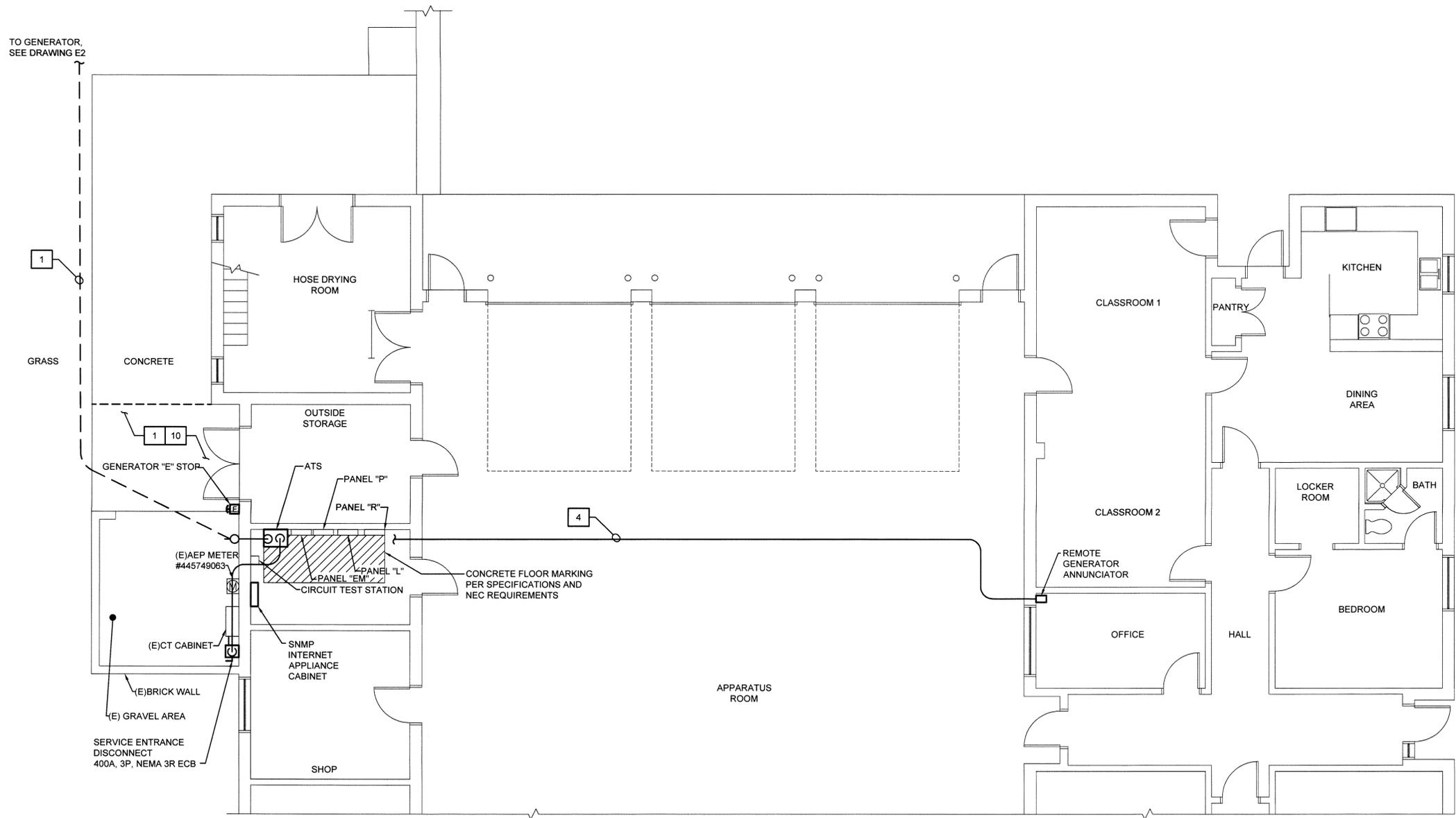
CITY OF LYNCHBURG  
 FIRE STATION #4  
 GENERATOR  
 CLIENT PROJECT CODE: BM147  
 LYNCHBURG, VIRGINIA

PARTIAL FLOOR PLAN -  
 DEMOLITION  
 PROJECT NO.: 15111  
 DATE: 31 OCT 16

Full Scale Verification  
 0" 1"  
 Drawing No.: **E3**



**CONSTRUCTION/FINAL POWER DISTRIBUTION DIAGRAM**  
SCALE: NONE



**PARTIAL FLOOR PLAN - CONSTRUCTION**  
SCALE: 3/16"=1'-0"

**CONSTRUCTION NOTES:**

1. CUT CONCRETE AS NECESSARY TO ROUTE CONDUITS TO GRASSY AREA. PATCH CONCRETE TO MATCH ADJACENT SURFACE.
2. 2 SETS OF (4#3/0, 2" RSC).
3. 400 AMP, 250V, 3 POLE. SERVICE ENTRANCE RATED ECB, 22K AIC RATED.
4. 1" CONDUIT WITH CONDUCTORS AS REQUIRED BY GENERATOR MANUFACTURER. IF NEEDED, PROVIDE ADDITIONAL 1" CONDUIT FOR WIRING BETWEEN INTERNET APPLIANCE AND GENERATOR ANNUNCIATOR.
5. 400A, 3 POLE, 250V, 22 K AIC MINIMUM RATED, NEMA 1 ENCLOSURE AUTOMATIC TRANSFER SWITCH.
6. 2 SETS OF (4#3/0, 1#3 EGC, 2" RSC).
7. PROVIDE THE FOLLOWING BRANCH CIRCUIT BREAKERS AS REQUIRED FOR GENERATOR INSTALLATION:
  - A. 2 POLE, 30A, FOR BLOCK HEATER.
  - B. 1 POLE, 20A FOR BATTERY CHARGER.
  - C. 1 POLE, 20A, FOR INTERNET APPLIANCE CABINET.
8. PROVIDE THE FOLLOWING BRANCH CIRCUITS FROM PANEL "L" TO GENERATOR, BREAKERS PROVIDED IN NOTE 7:
  - A. 2#10, 1#10 EGC, 1" CONDUIT TO BLOCK HEATER.
  - B. 3#12, 1" CONDUIT TO BATTERY CHARGER.
9. 1" CONDUIT WITH CONDUCTORS INDICATED ON INTERNET MONITORING DWG.
10. REMOVE AND REPLACE CONCRETE IN THIS ENTIRE AREA.

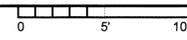
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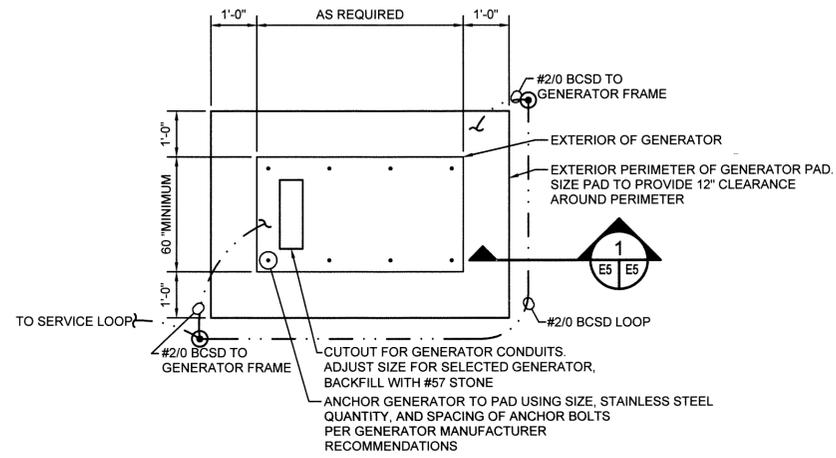


**CITY OF LYNCHBURG  
FIRE STATION #4  
GENERATOR**  
CLIENT PROJECT CODE: BM147  
LYNCHBURG, VIRGINIA

**PARTIAL FLOOR PLAN -  
CONSTRUCTION**  
PROJECT NO.: 15111  
DATE: 31/OCT/16

Full Scale Verification  
0" = 1"  
Drawing No.: **E4**

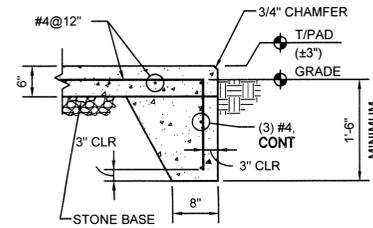




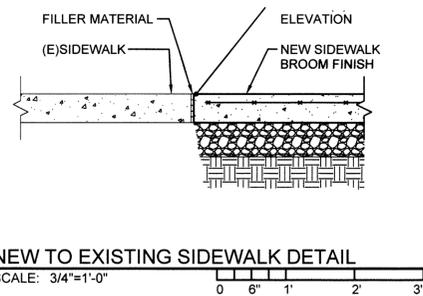
**A** GENERATOR PAD ENLARGED PLAN  
 E2 | E5 SCALE: NONE

**CONCRETE AND REINFORCEMENT NOTES:**

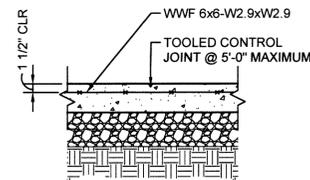
1. GENERATOR PAD SOIL BEARING CAPACITY SHALL BE A MINIMUM 1,500 PSF. CONTRACTOR SHALL ENGAGE INSPECTOR TO VERIFY SOIL BEARING CAPACITY AND REINFORCEMENT PLACEMENT PRIOR TO CONCRETE PLACEMENT. SUBMIT INSPECTION REPORT TO A/E FOR REVIEW.
2. CONCRETE SHALL BE NORMAL WEIGHT 145 PCF WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
3. REINFORCING BARS SHALL BE ROLLED FROM NEW BILLET STEEL CONFORMING WITH ASTM A615/A615M, GRADE 60, UNLESS OTHERWISE NOTED.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR ALL REINFORCEMENT, UNLESS OTHERWISE NOTED.
  - A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
  - B. CONCRETE EXPOSED TO EARTH OR WEATHER: #5 BAR AND SMALLER: 1 1/2"
5. LAP ALL REINFORCING SPLICES AT LEAST 48 BAR DIAMETERS (24" MINIMUM) UNLESS OTHERWISE NOTED.
6. ALL REINFORCING SHALL BE SECURELY WIRED TOGETHER IN FORMS AS CALLED FOR IN "PLACING REINFORCING BARS" BY CRSI.
7. STONE BASE SHALL BE 4" THICK, #57 STONE.



**1** GENERATOR PAD SECTION  
 E2 | E5 SCALE: NONE



NEW TO EXISTING SIDEWALK DETAIL  
 SCALE: 3/4"=1'-0"



TYPICAL CONTROL JOINT DETAIL  
 SCALE: 3/4"=1'-0"

NO.	BY	REVISIONS	DATE

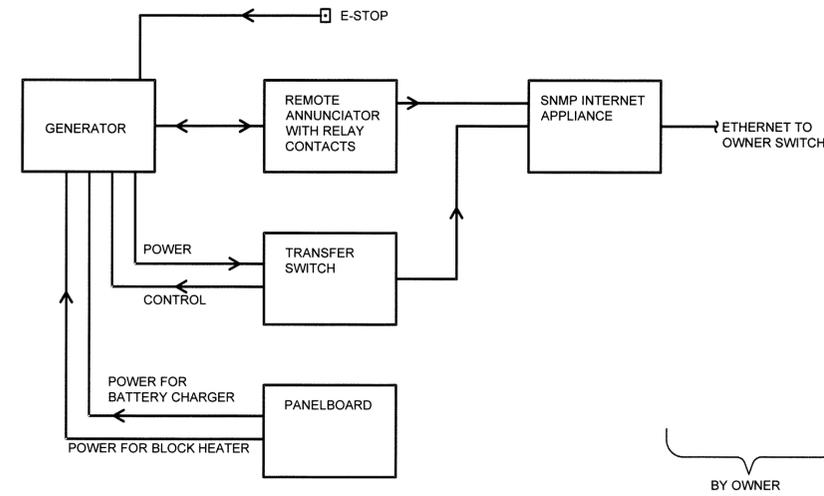


**CITY OF LYNCHBURG  
 FIRE STATION #4  
 GENERATOR**  
 CLIENT PROJECT CODE: BM147  
 LYNCHBURG, VIRGINIA

DETAILS  
 PROJECT NO: 15111  
 DATE: 31 OCT 16

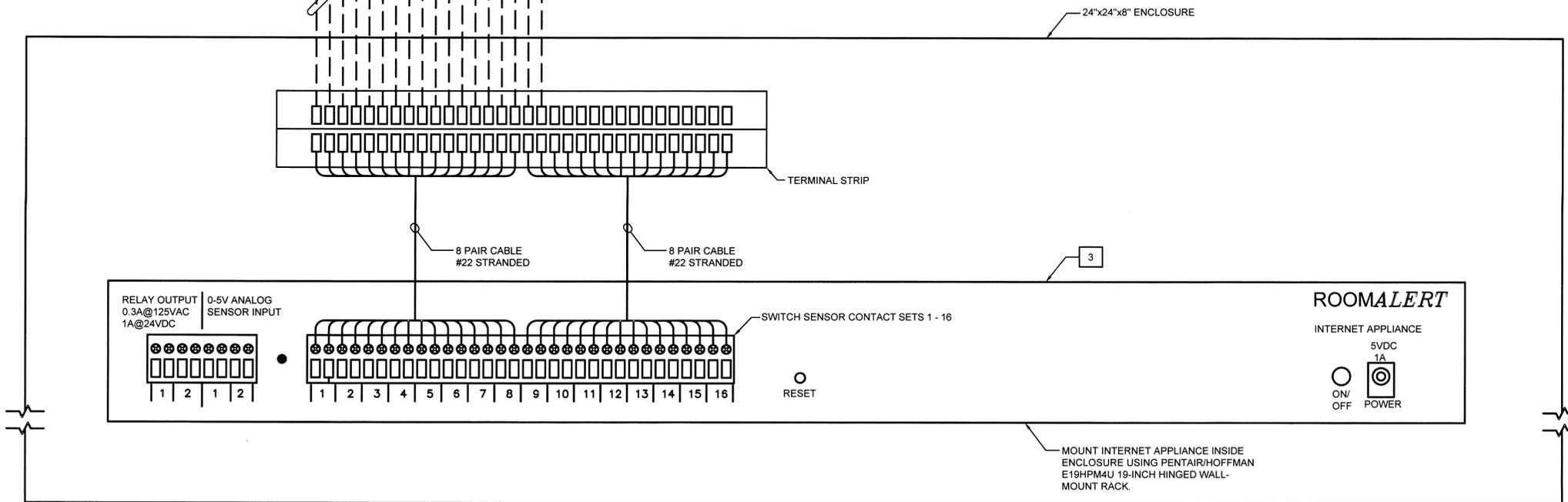
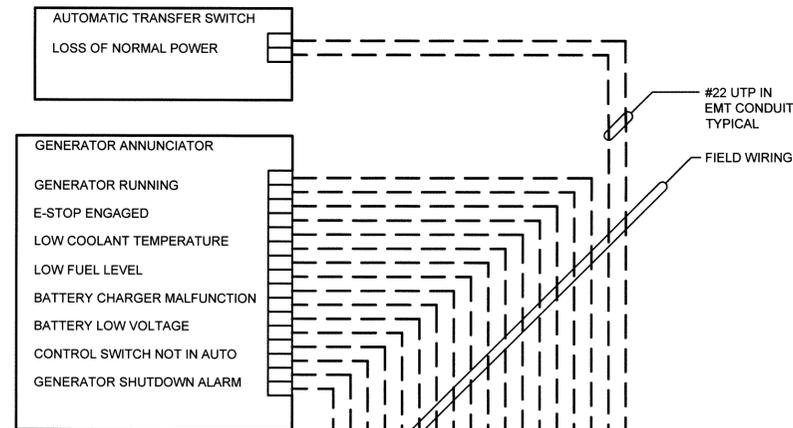
Full Scale Verification  
 0" 1"

Drawing No.: **E5**



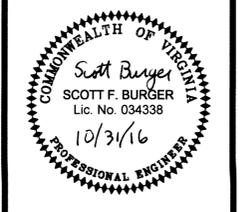
**GENERATOR INTERCONNECTION**  
SCALE: NONE

- INTERNET APPLIANCE SPECIFICATIONS:**
1. PROVIDE SNMP INTERNET APPLIANCE WITHIN 24"x24"x8" ENCLOSURE. PROVIDE ONE PER GENERATOR.
  2. INTERNET SNMP APPLIANCE ENCLOSURE TO INCLUDE TERMINAL STRIPS AND INTERNET APPLIANCE.
  3. PROVIDE INTERNET APPLIANCE. AVTECH ROOM ALERT RA32E-TH1-RAS.



**INTERNET APPLIANCE ENCLOSURE ELEVATION AND INTERCONNECTION**  
SCALE: NONE

NO.	BY	REVISIONS	DATE



**CITY OF LYNCHBURG  
FIRE STATION #4  
GENERATOR**  
CLIENT PROJECT CODE: BM147  
LYNCHBURG, VIRGINIA

**INTERNET MONITORING**  
PROJECT NO: 15111  
DATE: 31 OCT 16

Full Scale Verification  
0" | 1"  
Drawing No.: **E6**