

GREER ELEMENTARY SCHOOL GENERATOR

190 LAMBS LANE

CHARLOTTESVILLE, VIRGINIA

ACPS IFB# 2022-IFB-3031533

GREER ELEMENTARY SCHOOL
GENERATOR
ACPS# 2022-IFB-3031533

ALBEMARLE COUNTY
PUBLIC SCHOOLS
190 LAMBS LANE
CHARLOTTESVILLE, VA 22901



ENERGY BY DESIGN
100 10th St. NE, Suite 202
Charlottesville, VA 22902
434.296.2116
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PROJECT TEAM

ELECTRICAL ENGINEER
2RW CONSULTANTS, INC
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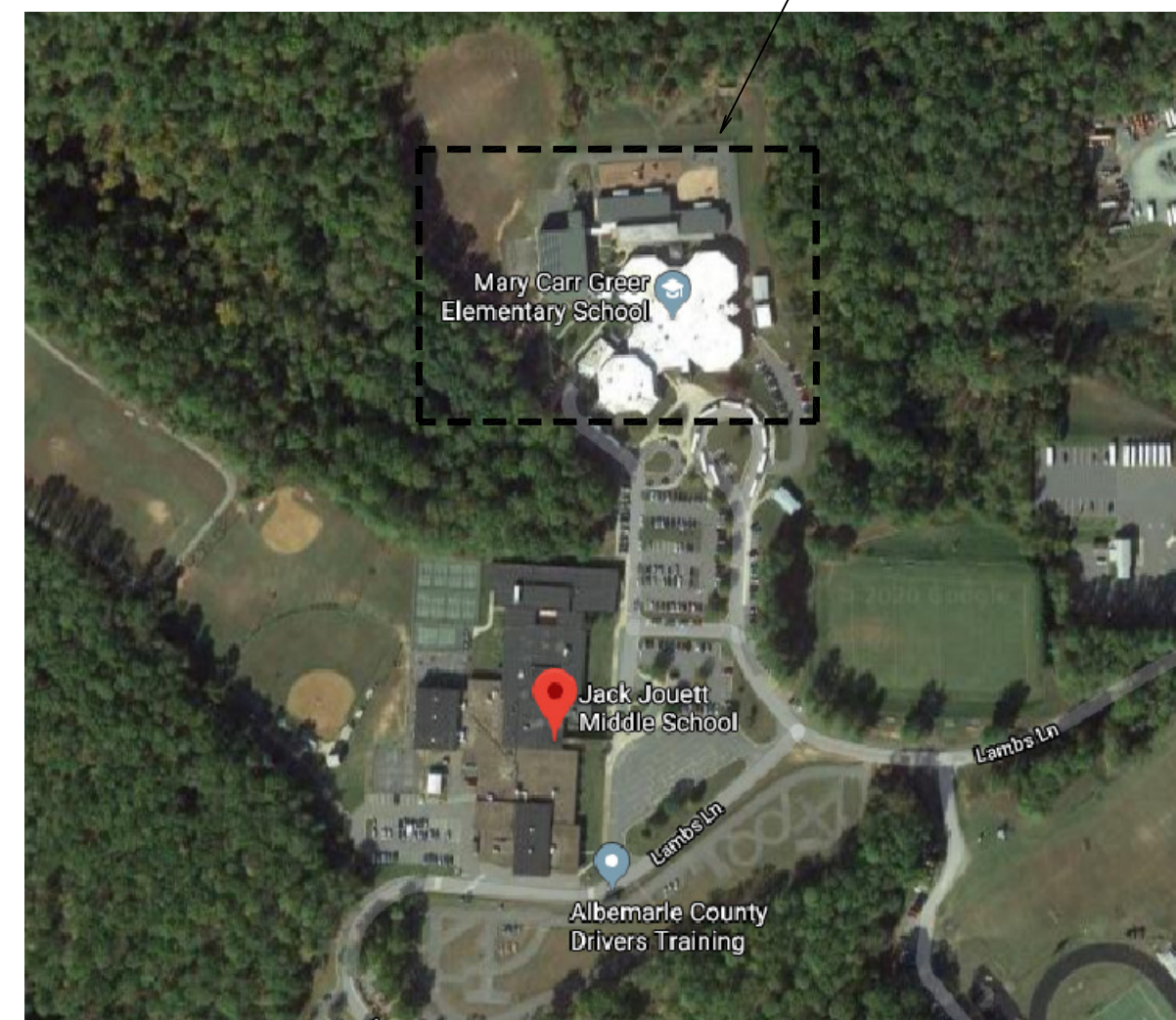
CODE COMPLIANCE INFORMATION

VIRGINIA UNIFORM STATEWIDE BUILDING CODE, 2015 (NATIONAL ELECTRICAL CODE, 2014)
AS CHOSEN BY A/E AND OWNER
VIRGINIA STATEWIDE FIRE PREVENTION CODE, 2015 AS CHOSEN BY A/E AND OWNER

GENERAL PROJECT NOTES

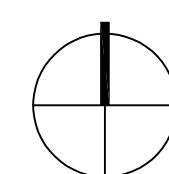
- THIS PROJECT WILL INSTALL A NEW EMERGENCY GENERATOR AT GREER ELEMENTARY SCHOOL. THE GENERATOR WILL PROVIDE EMERGENCY POWER TO LIFE SAFETY SYSTEMS INCLUDING EMERGENCY EGRESS LIGHTING AND THE FIRE ALARM SYSTEM. IT WILL ALSO PROVIDE STANDBY POWER TO TELECOM AND IT EQUIPMENT, PA SYSTEM, SECURITY SYSTEM, BUILDING AUTOMATION SYSTEM, KITCHEN WALK-IN COOLER AND FREEZER AND THE REMOTE SEWAGE LIFT PUMP STATION.
- PRIOR TO BIDDING, THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS. SUBMITTAL OF A BID SHALL SIGNIFY WILLINGNESS TO COMPLY WITH THE DESIGN AND ACCEPTANCE OF ON-SITE CONDITIONS AS THEY EXIST.
- PROTECT ALL EXISTING FINISHES AND MATERIAL UNLESS NOTED OTHERWISE.
- EXISTING BUILDING COMPONENTS AND SYSTEMS SHALL BE REMOVED AND MODIFIED AS REQUIRED TO ACCOMMODATE THE IMPROVEMENTS. WHETHER OR NOT SHOWN ON THESE PLANS, UNLESS NOTED OTHERWISE (UNO), DOCUMENTATION OF EXISTING SYSTEMS IS BASED ON AVAILABLE RECORD DRAWINGS AND CASUAL FIELD OBSERVATION. MAJOR DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.
- WHERE EXISTING BUILDING SYSTEMS PENETRATE FLOOR/ WALLS/ROOF, CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING SUCH PENETRATIONS TO MATCH EXISTING. UNO. ALL PENETRATIONS SHALL BE SEALED WEATHER- AND WATER-TIGHT, UNO.
- THE CONTRACTOR SHALL AVOID DISRUPTION OF THE ACTIVITIES OF THE OCCUPANTS TO THE BEST EXTENT POSSIBLE. SCHEDULE WORK TO AVOID DISRUPTION OF THE USE OF THE SPACE. COORDINATE WORK REQUIREMENTS TO ACCOMPLISH THE WORK WHILE THE FACILITY REMAINS IN OPERATION. SCHEDULE ANY DISRUPTION TO THE SPACES ADJACENT TO THE PROJECT AREA WITH THE ACPS PROJECT MANAGER PRIOR TO EXECUTING THE WORK.
- BUILDING SYSTEMS, INCLUDING BUT NOT LIMITED TO - FIRE SUPPRESSION, PLUMBING, MECHANICAL, BAS, ELECTRICAL AND FIRE ALARM - SHALL REMAIN IN OPERATION THROUGHOUT THE RENOVATION. IN ADDITION, THE EXISTING MECHANICAL SYSTEM SHALL REMAIN INTACT AND OPERATIONAL UNTIL DIRECTED BY TO BE REMOVED BY THE ACPS.
- REFER TO DIVISIONS 00 AND 01 FOR PROJECT SCHEDULE AND ADDITIONAL GENERAL REQUIREMENTS.
- THIS PROJECT INCLUDES OWNER FURNISHED / CONTRACTOR INSTALLED EQUIPMENT. THE OWNER IS FURNISHING THE GENERATOR INCLUDING THE FUEL TANK AND ENCLOSURE, AUTOMATIC TRANSFER SWITCHES AND ANNUNCIATOR. THE APPROVED SUBMITTAL AND REVIEW COMMENTS ARE INCLUDED AS AN APPENDIX IN THE PROJECT MANUAL FOR REFERENCE. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL EQUIPMENT.

GREER ELEMENTARY SCHOOL



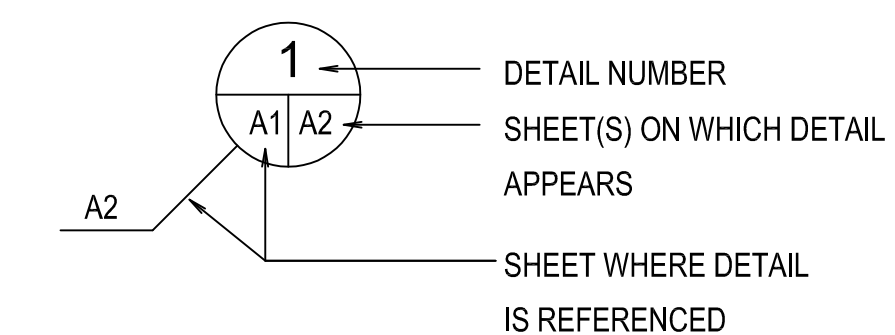
ENLARGED AERIAL PERSPECTIVE VIEW

SITE PLAN

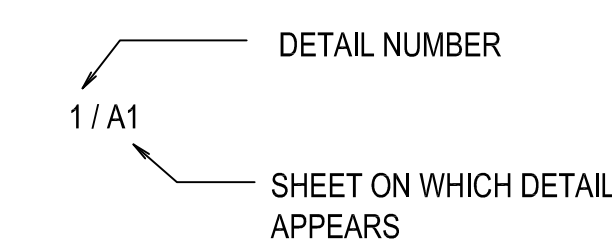


SYMBOLS

DETAIL INDICATOR SYMBOL



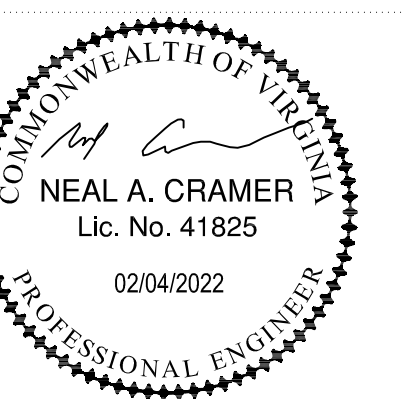
TEXT DETAIL REFERENCE



SHEET LIST - ELECTRICAL

SHEET NO	SHEET NAME
T0.00	TITLE SHEET
E0.00	LEGEND, SCHEDULES, DETAILS
E0.01	DETAILS
E1.01	FIRST FLOOR PLAN
E1.02	SECOND FLOOR PLAN

SEAL



KEY PLAN



SUBMISSION / REVISION DATE
DESCRIPTION OF SUBMISSION / REV. 00.00.0000

DRAWING PHASE

BID SET

DRAWING TITLE:

TITLE SHEET

DRAFTED BY: BJP CHECKED BY: NAC
DATE: 02-04-2022

T0.00

GENERAL NOTES DEMOLITION

- PRIOR TO BIDDING, THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND TO VERIFY LOCATION, SIZE AND QUANTITY OF ITEMS TO BE REMOVED. SUBMITTAL OF A BID SHALL SIGNIFY WILLINGNESS TO COMPLY WITH THE DEMOLITION PLANS AND ACCEPTANCE OF ON-SITE CONDITIONS AS THEY EXIST.
- DOCUMENTATION OF EXISTING SYSTEMS IS BASED ON AVAILABLE RECORD DRAWINGS AND CASUAL FIELD OBSERVATION. MAJOR DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.
- CONTRACTOR SHALL REMOVE ALL PORTIONS OF EXPOSED SYSTEMS, COMPONENTS EMBEDDED WITHIN OR BENEATH THE EXISTING STRUCTURE MAY BE ABANDONED IN PLACE, CUT BEHIND WALL/FLOOR/CEILING SURFACE AS REQUIRED FOR PATCHING OF FINISH.
- WHERE EXISTING ELECTRICAL SYSTEMS PENETRATE EXTERIOR WALLS, CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING SUCH PENETRATIONS TO MATCH EXISTING, UNLESS NOTED OTHERWISE.
- REMOVE EACH ITEM OF EQUIPMENT INDICATED ON DEMOLITION PLANS AND ITS ASSOCIATED CIRCUITRY BACK TO THE PROTECTIVE DEVICE IN THE PANEL, EXCEPT AS OTHERWISE NOTED.
 - ASSOCIATED CIRCUITRY INCLUDES CONDUIT, CONDUCTORS, BOXES, WIRING DEVICES, COVER PLATES, SWITCHES, STARTERS, ETC., WHICH ARE ASSOCIATED WITH THE ITEM TO BE REMOVED.
 - REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.
 - REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES, CUT CONDUIT FLUSH WITH WALLS AND FLOORS, PATCH SURFACES.
 - REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK. NOTIFY OWNER OF DAMAGE, AND REPAIR SHALL BE ACCEPTED BY OWNER.
- EXACT CIRCUITING FOR EXISTING LOADS NOTED FOR DEMOLITION SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO DEMOLITION.
- CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT THAT ARE TO REMAIN OR THAT ARE TO BE SALVAGED/REUSED.

GENERAL NOTES NEW WORK

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH VUSBC 2015, 2014 NEC.
- PROVIDE GROUNDING CONDUCTORS IN ALL BRANCH CIRCUIT RACEWAYS.
- ALL CND AND WIRING SHALL BE RUN CONCEALED ABOVE FINISHED CEILINGS, WITHIN WALLS, OR BELOW FLOORS IN FINISHED SPACES.
- PLACE JUNCTION BOXES IN ACCESSIBLE LOCATIONS ABOVE CEILINGS.
- PENETRATIONS THRU FIRE RATED CEILINGS, FLOOR OR WALLS SHALL BE SEALED TO MAINTAIN FIRE RATING INTEGRITY PER VIRGINIA FIRE CODE.
- ELECTRICAL CONTRACTOR SHALL COORDINATE THEIR WORK WITH EXISTING BUILDING FINISHES AND SYSTEMS, PERFORM ALL WORK NECESSARY TO REMOVE AND REINSTALL OR REPLACE EXISTING FINISHES AND ITEMS AS REQUIRED TO ACCOMPLISH ELECTRICAL WORK.
- THE DESIGN IS BASED ON MANUFACTURERS AND MODELS INDICATED, AND IS INTENDED TO SHOW THE GENERAL SIZE, CONFIGURATION, LOCATION, CONNECTIONS AND/OR SUPPORT FOR EQUIPMENT OR SYSTEM(S) WITH RELATION TO THE OTHER BUILDING/SYSTEMS. SEE SPECIFICATION SECTIONS FOR TECHNICAL REQUIREMENTS.
- PROVIDE ACCURATE PANEL DIRECTORIES IN ALL PANELS WHERE NEW WORK IS PERFORMED.
- ALL LONG LEAD TIME ITEMS ARE TO BE SUBMITTED FOR REVIEW WITHIN 10 WORKING DAYS OF NOTICE TO PROCEED.
- ALL REQUIRED UTILITY OUTAGES ARE TO BE COORDINATED WITH OWNER A MINIMUM OF 5 WORKING DAYS IN ADVANCE. ALL OUTAGES ARE TO BE PERFORMED BETWEEN MONDAY AND FRIDAY UNLESS OTHERWISE ARRANGED WITH OWNER.

ABBREVIATIONS

A	AMPERE
ABV	ABOVE
AWG	AMERICAN WIRE GAUGE
A/E	ARCHITECT/ENGINEER
BAS	BUILDING AUTOMATION SYSTEM
BLDG	BUILDING
BRKR	BREAKER
BTM	BOTTOM
CBT	CIRCUIT
CLG	CEILING
C.CND	CONDUIT
CT	CURRENT TRANSFORMER
CTR	CENTER
CTRL	CONTROL
DISTR	DISTRIBUTION
DN	DOWN
EM	EMERGENCY
EQPT	EQUIPMENT
FACP	FIRE ALARM CONTROL PANEL
FLR	FLOOR
GF	GROUND FAULT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
MFR	MANUFACTURER
JB	JUNCTION BOX
KAIC	1,000 AMPERE INTERRUPTING CURRENT
KW	KILOWATT
KVA	KILOVOLT AMPERE
LTS	LIGHTS
MB	MAIN BREAKER
MFR	MANUFACTURER
MH	MOUNTING HEIGHT (AFF UNO)
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MFRS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION AGENCY
OCFD	OVER CURRENT PROTECTIVE DEVICE
P	POLE
PB	PULL BOX
PH	PHASE
PNL	PANEL
PWR	POWER
REC	RECEPTACLE
RM	ROOM
SECT	SECTION
NEC	SOLID NEUTRAL
SURF	SURFACE
SWBD	SWITCHBOARD
THRU	THROUGH
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VUSBC	VIRGINIA UNIFORM STATEWIDE BUILDING CODE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL LEGEND

	CONDUIT OR CABLE UP
	CONDUIT OR CABLE DOWN
	CIRCUIT HOMERUN
	UNSWITCHED CIRCUIT LEG (LIGHTING)
	EXISTING TO BE REMOVED
	EXISTING TO REMAIN
	BREAK
WIRING DEVICES	
	EQUIPMENT CONNECTION.
	BAS PANEL
	FIRE ALARM PANEL
	KITCHEN EQUIPMENT
	SECURITY SYSTEM PANEL
POWER DISTRIBUTION	
	SURFACE PANELBOARD, 120/208V
	RECESSED PANELBOARD, 120/208V
	PANELBOARD, SURFACE MOUNTED, 277/480V
	PANELBOARD, FLUSH MOUNTED, 277/480V
	DISCONNECT SWITCH

PANEL NO. ESHA	BUS AMPS 125A	FED FROM: MBB	INTEGRAL SPD LOCATION: USAGE	120 I/A PHASE ELECTRICAL ROOM BRANCH CIRCUIT							
PHASES: 3	MAIN CB AMPS: 100A	MOUNTING: SURFACE	PANEL TYPE: LIGHTING AND APPLIANCE								
VOLTS 480V	AC RATING: 19,428 MINIMUM										
CIRCUIT	LOAD DESCRIPTION	NOTES	BREAKER	CKT	CKT	BREAKER	NOTES	DESCRIPTION	LOAD	CIRCUIT	
SETS WIRE NEUT# GND. CND.	AMPS		POLE/AMP	#	#	AMP/POLE			AMPS	SETS WIRE NEUT# GND. CND.	
1 #4 #4 #10 1-1/4"	22.0		3 50	1	A 2	50 3		T-ES	13.0	1 #6 - #10 1"	
	22.0				3 B 4				11.6		
	0.0				5 C 6				13.0		
	0.0		1 20	7	A 8	20 1		SPARE	0.0		
	0.0		1 20	9	B 10	20 1		SPARE	0.0		
	0.0		1 20	11	C 12	20 1		SPARE	0.0		
	0.0		1 20	13	A 14	20 1		SPARE	0.0		
	0.0		1 20	15	B 16	20 1		SPARE	0.0		
	0.0		1 20	17	C 18	20 1		SPARE	0.0		
	0.0		1 20	19	A 20	20 1		SPARE	0.0		
	0.0		1 20	21	B 22	20 1		SPARE	0.0		
	0.0		1 20	23	C 24	20 1		SPARE	0.0		
PANEL NOTES:									CONN.	DEM.	
1. ADJUST ALL CONDUCTOR SIZES FOR VOLTAGE DROP PER SPECIFICATIONS.									TOTAL KVA	26.7	26.7
2.									TOTAL AMPS	34.5	34.5
3.											
4.											
5.											
6.											

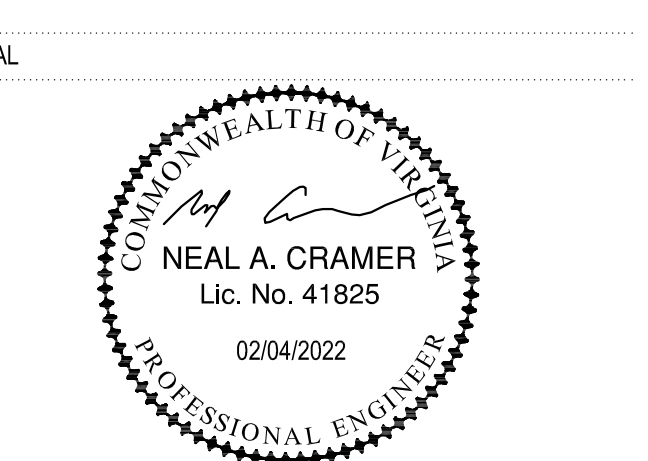
PANEL NO. ESLA	BUS AMPS 100A	FED FROM: ESHA	INTEGRAL SPD LOCATION: USAGE	120 I/A PHASE ELECTRICAL ROOM BRANCH CIRCUIT							
PHASES: 3	MAIN CB AMPS: MLO	MOUNTING: SURFACE	PANEL TYPE: LIGHTING AND APPLIANCE								
VOLTS 208V	AC RATING: 10,000 MINIMUM										
CIRCUIT	LOAD DESCRIPTION	NOTES	BREAKER	CKT	CKT	BREAKER	NOTES	DESCRIPTION	LOAD	CIRCUIT	
SETS WIRE NEUT# GND. CND.	AMPS		POLE/AMP	#	#	AMP/POLE			AMPS	SETS WIRE NEUT# GND. CND.	
1 #12 #12 #12 3/4"	4.2		1 20	1	A 2	20 3		KITCHEN WALK-IN COOLER	3.4	1 #12 #12 3/4"	
1 #12 #12 #12 3/4"	4.2		1 20	3	B 4				3.4		
1 #12 #12 #12 3/4"	4.2		1 20	5	C 6				3.4		
1 #12 #12 #12 3/4"	17.7		1 20	7	A 8	50 2		KITCHEN WALK-IN FREEZER	17.3	1 #6 #6 #10 3/4"	
1 #12 #12 #12 3/4"	4.2		1 20	9	B 10				17.3		
1 #10 #10 #10 3/4"	20.8		1 30	11	C 12	20 1		PA SYSTEM	1.5	1 #12 #12 3/4"	
1 #12 #12 #12 3/4"	4.2		1 20	13	A 14	20 1		SECURITY SYSTEM PANEL	1.5	1 #12 #12 3/4"	
	0.0		1 20	15	B 16	20 1		SPARE	0.0		
	0.0		1 20	17	C 18	20 1		SPARE	0.0		
	0.0		1 20	19	A 20	20 1		SPARE	0.0		
	0.0		1 20	21	B 22	20 1		SPARE	0.0		
	0.0		1 20	23	C 24	20 1		SPARE	0.0		
PANEL NOTES:									CONN.	DEM.	
1. ADJUST ALL CONDUCTOR SIZES FOR VOLTAGE DROP PER SPECIFICATIONS.									TOTAL KVA	10.4	10.4
2.									TOTAL AMPS	28.8	28.8
3.											
4.											
5.											
6.											

**GREER ELEMENTARY SCHOOL
GENERATOR
ACPS# 2022-IFB-3031533**

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2RW.com



KEY PLAN

SUBMISSION / REVISION DATE
DESCRIPTION OF SUBMISSION / REV. 00.00.0000

DRAWING PHASE
BID SET

DRAWING TITLE:
**LEGEND,
SCHEDULES**

DRAFTED BY: BJP CHECKED BY: NAC
DATE: 02-04-2022

E0.00

KEY NOTES

1. (4)#1, (1)#6 GROUND IN 2" CONDUIT.
2. 80KW DIESEL GENERATOR WITH BASE TANK. OWNER FURNISHED, CONTRACTOR INSTALLED.
3. GROUND GENERATOR AS A SEPARATELY DERIVED SERVICE.
4. PROVIDE 3P/100A BREAKER IN MSB FOR NORMAL POWER FEED TO ATS-ES. CONNECT WITH (4)#3, (1)#6 GROUND IN 1.14" CONDUIT.

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TABLE "A" - WORKING CLEARANCES			
VOLTAGE TO GROUND, NOMINAL	CONDITION:		
	1	2	3
0-150	3	3	3
151-600	3	3.5	4

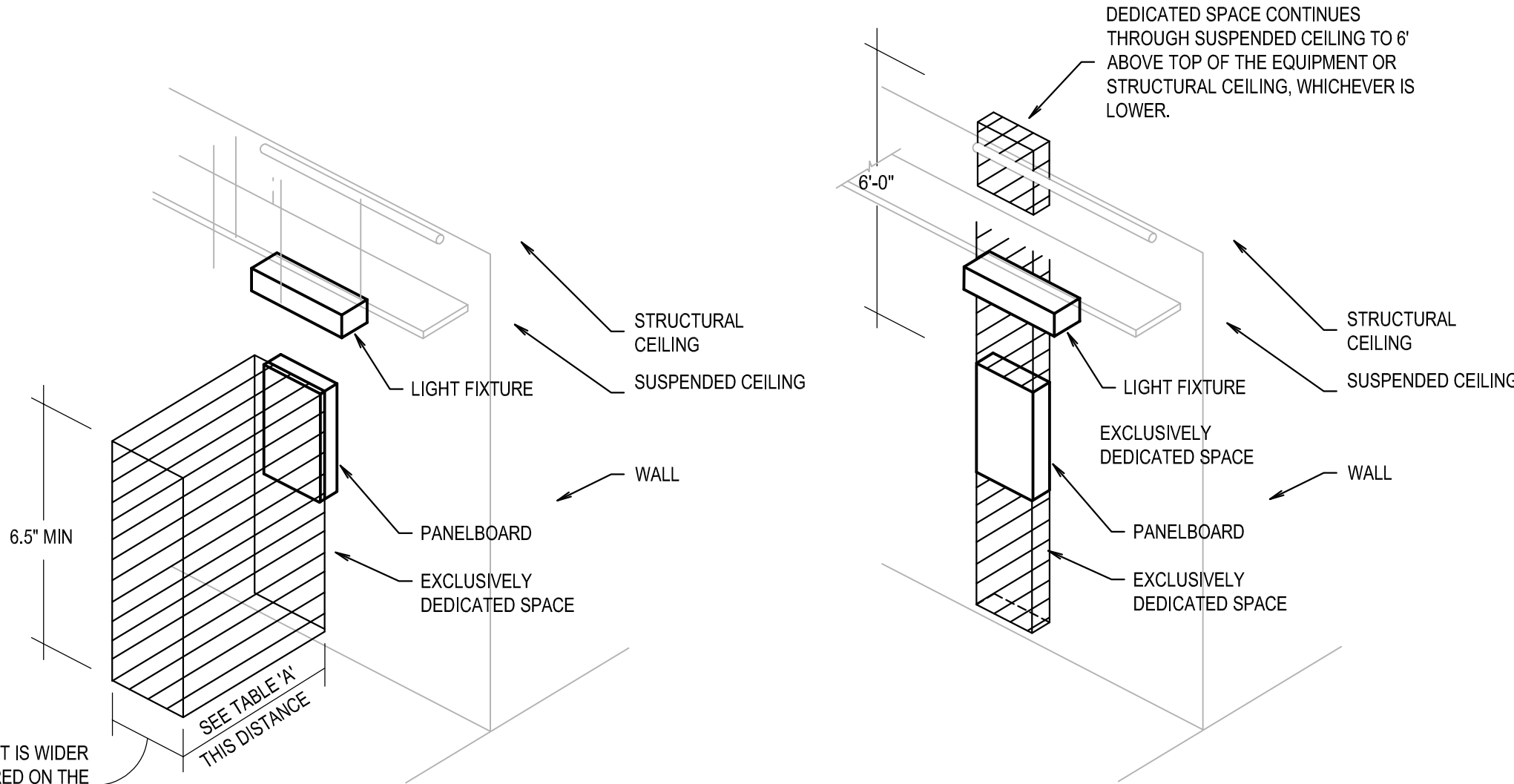
WHERE THE CONDITIONS ARE AS FOLLOWS:
1. EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300 VOLTS SHALL NOT BE CONSIDERED LIVE PARTS.

2. EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.

3. EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

30" OR WIDTH OF EQUIPMENT IF EQUIPMENT IS WIDER THAN 30" DOES NOT HAVE TO BE CENTERED ON THE EQUIPMENT BUT AT LEAST EVEN WITH ONE EDGE. EQUIPMENT DOOR SHALL BE ABLE TO OPEN AT LEAST 90 DEG.

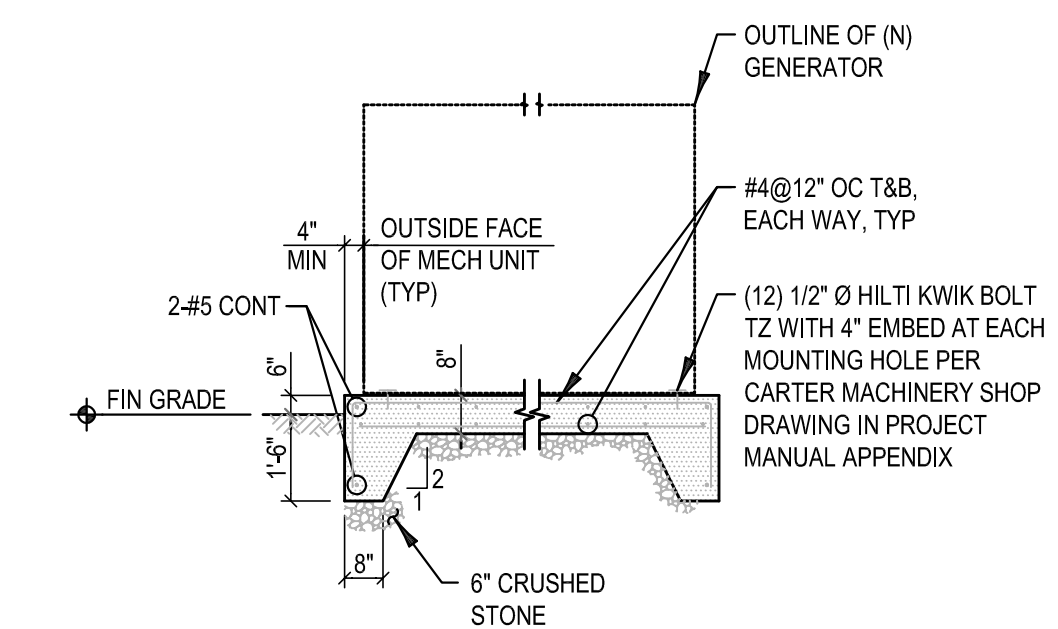
NOTE: THIS INCLUDES BUT IS NOT LIMITED TO PANELBOARDS, SAFETY SWITCHES, MOTOR STARTERS, JUNCTION BOXES AND OTHER ELECTRIC EQUIPMENT.



NOTE: THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF ELECTRIC EQUIPMENT REQUIRED BY SECTION 110-26 (a) OF THE NATIONAL ELECTRICAL CODE.

NOTE: THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE REQUIRED OVER AND UNDER PANELBOARDS FOR CABLES, RACEWAYS, ETC. TO AND FROM PANELBOARDS REQUIRED BY SECTION 110-26 (f) OF THE NATIONAL ELECTRICAL CODE.

1 DEDICATED WORKING SPACE FOR EQUIPMENT
SCALE: NONE

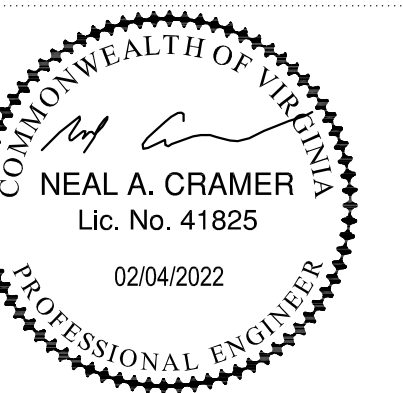


3 GENERATOR EQUIPMENT PAD
SCALE: NONE

NOTES:

1. MINIMUM CONCRETE COMPRESSIVE STRENGTH TO BE 4,000 PSI

SEAL



KEY PLAN



SUBMISSION / REVISION DATE
DESCRIPTION OF SUBMISSION / REV. 00.00.0000

DRAWING PHASE

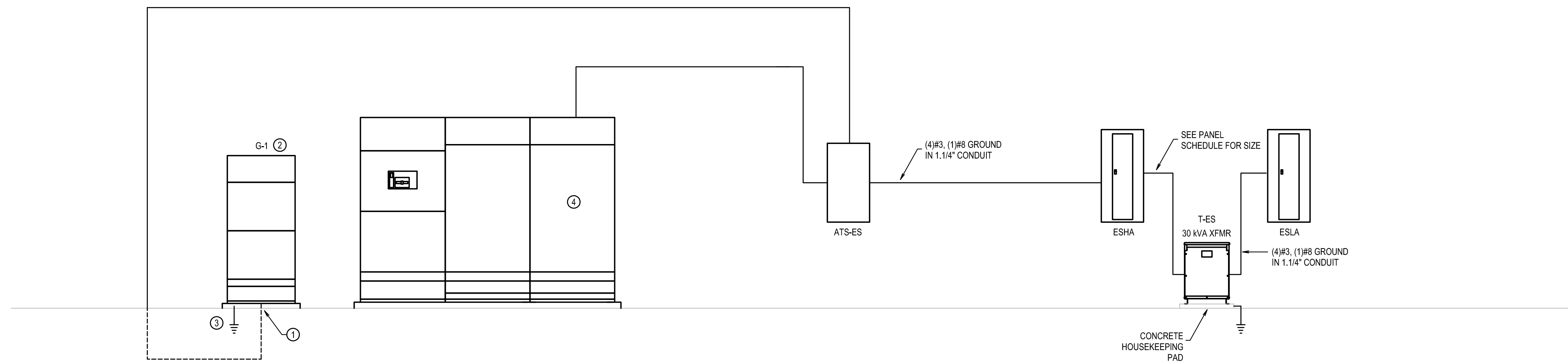
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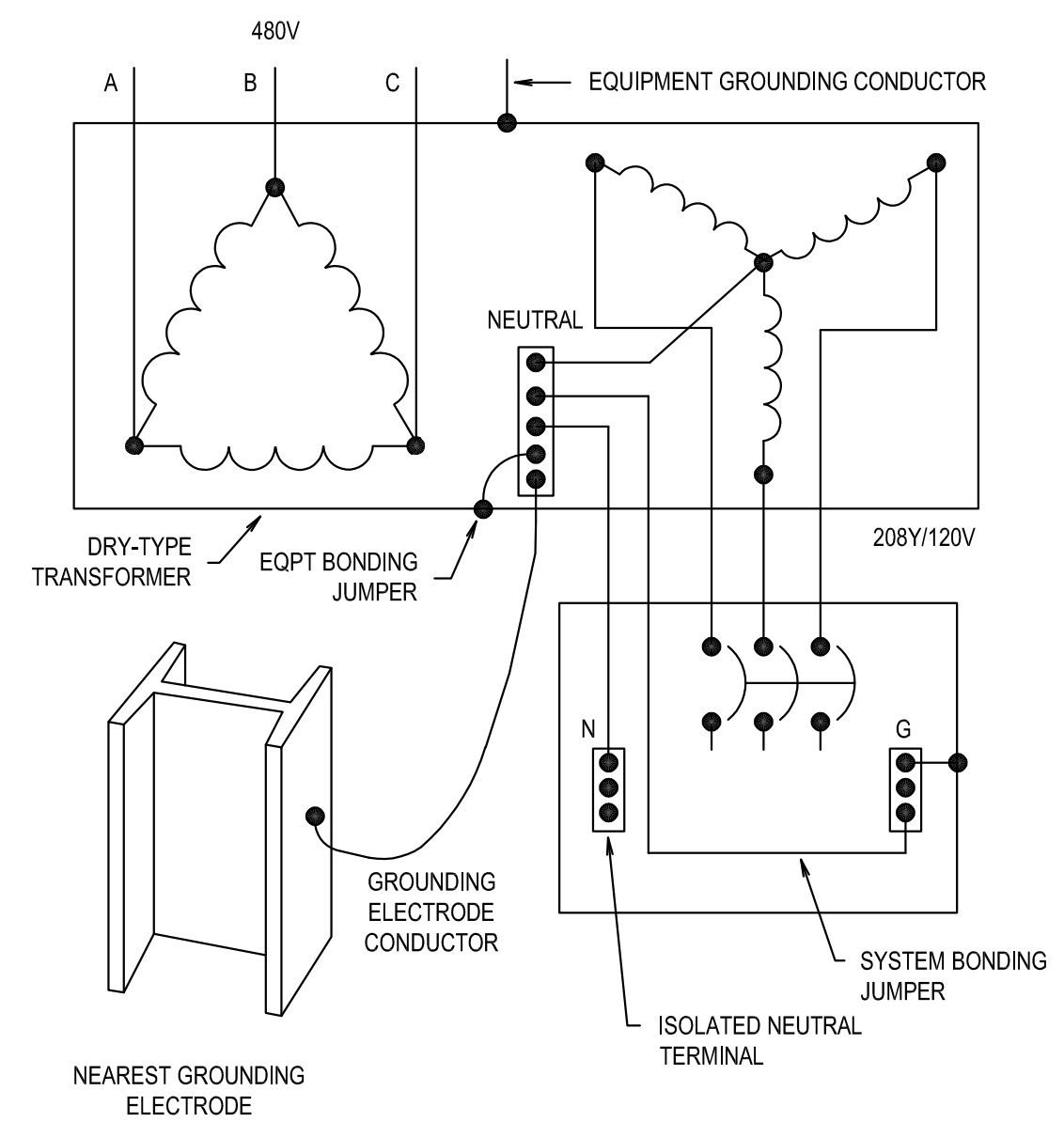
DETAILS

DRAFTED BY: **BJP** CHECKED BY: **NAC**
DATE: **02-04-2022**

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2 POWER RISER DIAGRAM
SCALE: NONE

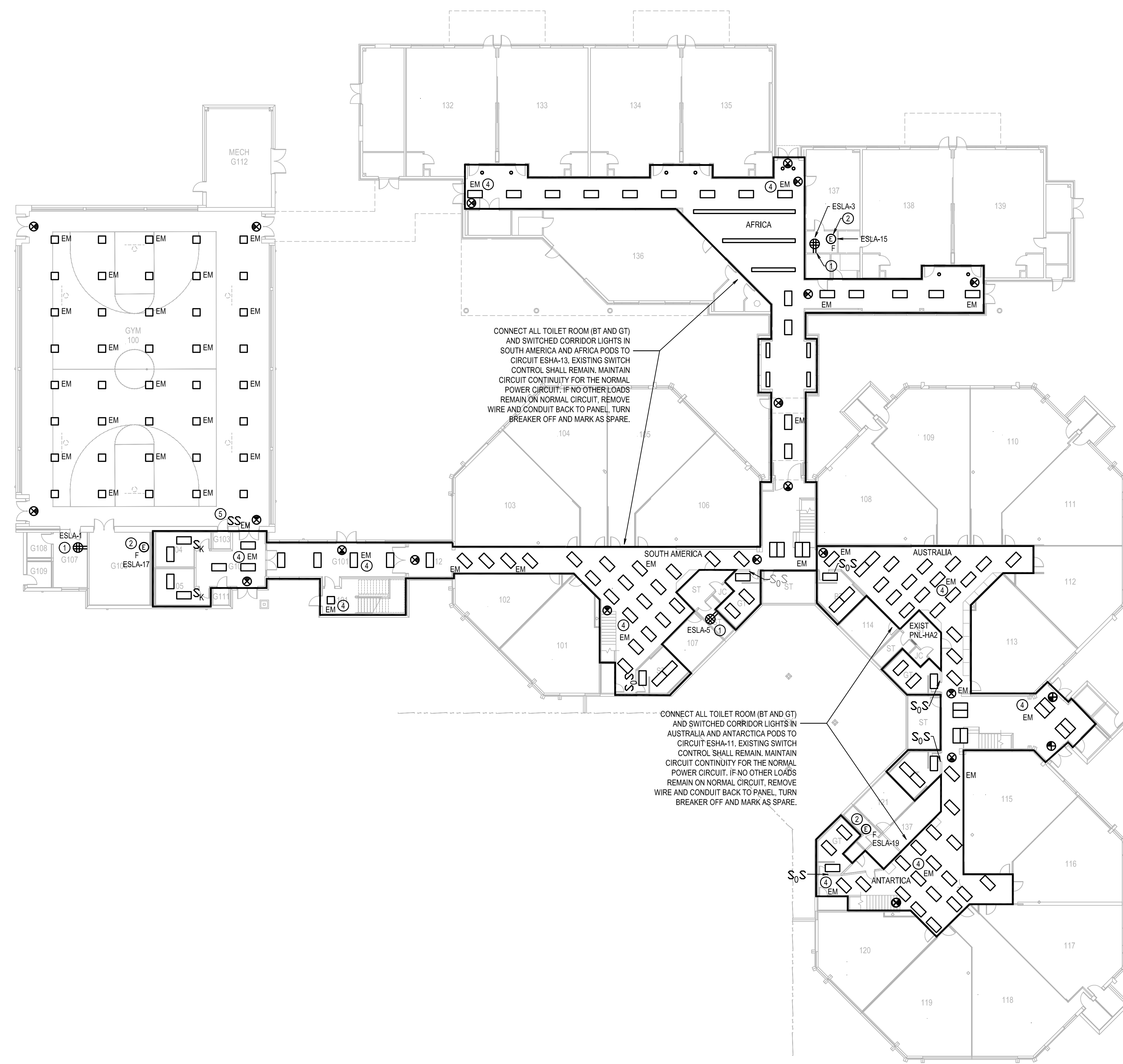


4 TRANSFORMER GROUNDING DETAIL
SCALE: NONE

GENERAL NOTES

KEY NOTES

- ALL CORRIDOR FIXTURES SHOWN AS EM ARE CURRENTLY ON SEPARATE CIRCUIT ON 247. CONNECT ADDITIONAL EM FIXTURES AS NOTED BY KEY NOTE 4 TO NEW EMERGENCY CIRCUIT ESHA-7 WITH EXISTING 247 FIXTURES.
- CONNECT ALL EXIT SIGNS TO CIRCUIT ESHA-9.
- EXISTING TOILET ROOM AND CORRIDOR SWITCHED LIGHTS ARE BEING CONNECTED TO NEW EMERGENCY CIRCUIT. DISCONNECT FROM EXISTING NORMAL CIRCUIT AND MAINTAIN CIRCUIT CONTINUITY. IF NO OTHER LOADS REMAIN ON EXISTING CIRCUIT, REMOVE WIRE AND CONDUIT BACK TO PANEL, TURN BREAKER OFF AND MARK AS SPARE.
- ALL LIGHT FIXTURES AND SWITCHES ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
- REMOVE EXISTING RECEPTACLE FOR IT RACK AND REPLACE WITH RED EMERGENCY RECEPTACLE. CONNECT TO NEW CIRCUIT AS NOTED. CONNECTION CAN BE MADE AT ANY POINT IN EXISTING WIRING TO RECEPTACLE AS LONG AS EXISTING CIRCUIT CONTINUITY IS MAINTAINED FOR ANY OTHER DEVICES ON EXISTING CIRCUIT. IF RECEPTACLE IS THE ONLY EQUIPMENT ON EXISTING CIRCUIT, TURN OFF BREAKER AND MARK AS SPARE IN SCHEDULE AND REMOVE ALL WIRE AND CONDUIT BACK TO PANEL.
- DISCONNECT FIRE ALARM PANEL FROM EXISTING CIRCUIT AND CONNECT TO NEW EMERGENCY CIRCUIT AS INDICATED. MAINTAIN CIRCUIT CONTINUITY FOR OTHER LOADS ON CIRCUIT IF PRESENT. IF NO OTHER LOADS ARE PRESENT REMOVE WIRE AND CONDUIT BACK TO PANEL, TURN OFF BREAKER AND MARK AS SPARE.
- EXISTING QUARTZITE PULL BOX FEEDING REMOTE SEWAGE PUMP STATION. PUMP STATION IS CURRENTLY FED FROM PANEL-42. INTERCEPT EXISTING CIRCUIT AND FEED FROM NEW CIRCUIT INDICATED. EXISTING NORMAL POWER CIRCUIT SERVING PUMP STATION TO BE LABELED AS "SPARE". TURN BREAKER OFF.
- FIXTURE NOT CURRENTLY ON 247. DISCONNECT FROM EXISTING SWITCH CONTROL AND CONNECT TO ESHA-9.
- KEYED SWITCH WITH EM DESIGNATION CONTROLS FIXTURES NOTED AS EM. INSTALL UL524 TRANSFER DEVICE AND CONNECT TO CIRCUIT ESHA-9. ALSO CONNECT LIGHTS CONTROLLED BY SECOND SWITCH TO ESHA-9. NO UL524 DEVICE REQUIRED. INTENT IS FOR THE EM DESIGNATED FIXTURES TO GO TO "FULL ON" REGARDLESS OF SWITCH POSITION IN THE EVENT OF A POWER OUTAGE. RETAIN NORMAL CIRCUIT FOR CONNECTION TO UL524 TRANSFER DEVICE AS REQUIRED.



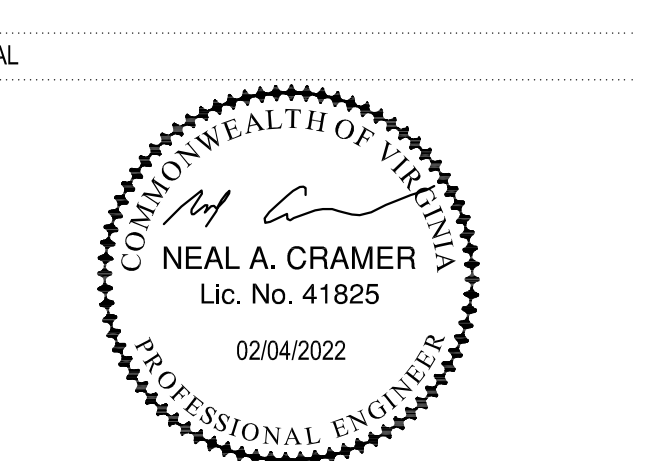
1 FIRST FLOOR PLAN
 SCALE: 1/16" = 1'-0"
 0 8 16 32

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KEY PLAN

SUBMISSION / REVISION	DATE
DESCRIPTION OF SUBMISSION / REV.	00.00.0000

DRAWING PHASE: **BID SET**
 DRAWING TITLE: **FIRST FLOOR PLAN**

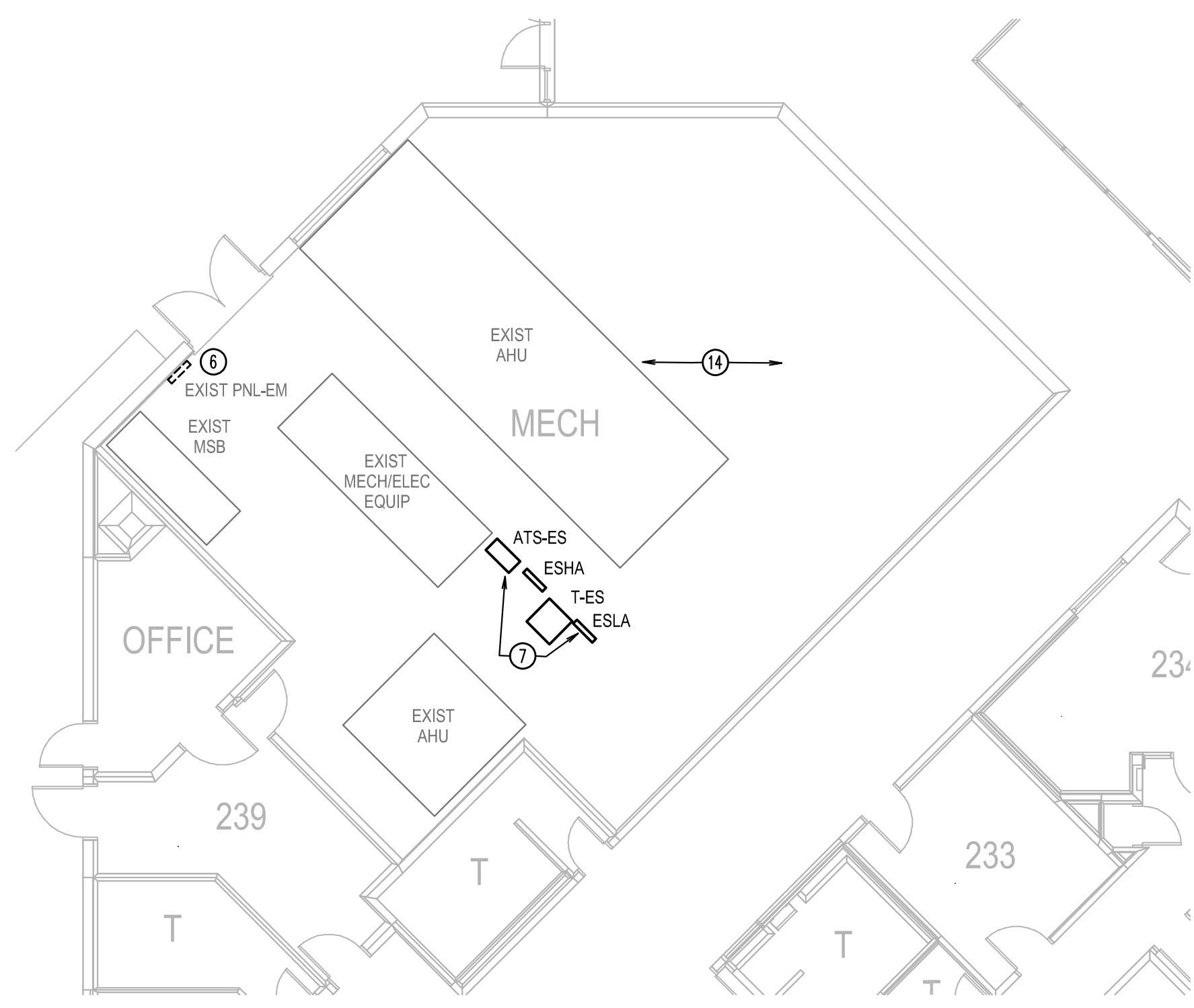
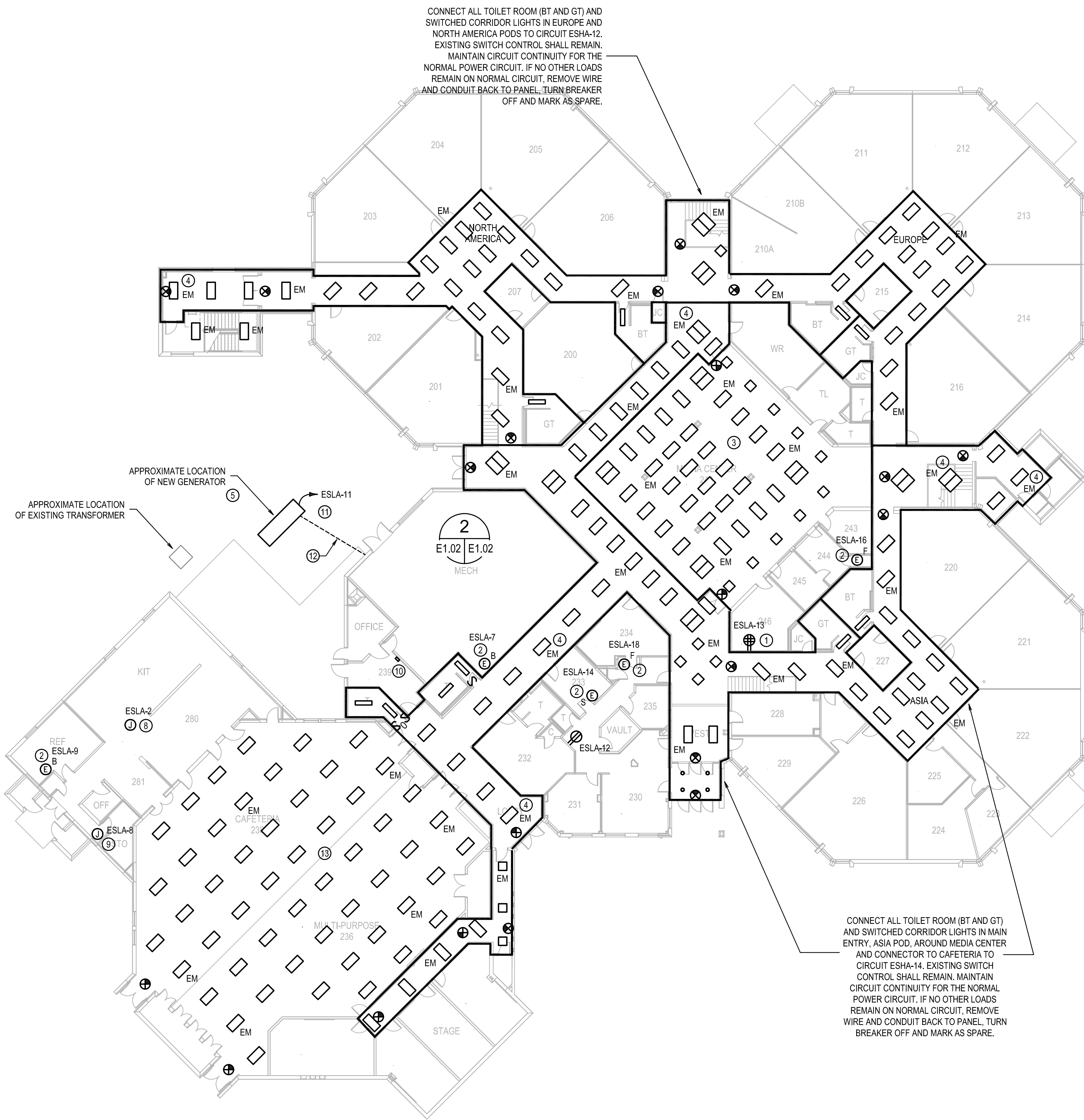
DRAFTED BY: **BJP** CHECKED BY: **NAC**
 DATE: **02-04-2022**

E1.01

GENERAL NOTES

KEY NOTES

- ALL CORRIDOR FIXTURES SHOWN AS EM ARE CURRENTLY ON SEPARATE CIRCUIT ON 247. CONNECT ADDITIONAL EM FIXTURES AS NOTED BY KEY NOTE 4 TO NEW EMERGENCY CIRCUIT ESHA-8 WITH EXISTING 247 FIXTURES.
- CONNECT ALL EXIT SIGNS TO CIRCUIT ESHA-8.
- EXISTING TOILET ROOM AND CORRIDOR SWITCHED LIGHTS ARE BEING CONNECTED TO NEW EMERGENCY CIRCUIT. DISCONNECT FROM EXISTING NORMAL CIRCUIT AND MAINTAIN CIRCUIT CONTINUITY. IF NO OTHER LOADS REMAIN ON EXISTING CIRCUIT, REMOVE WIRE AND CONDUIT BACK TO PANEL, TURN BREAKER OFF AND MARK AS SPARE.
- ALL LIGHT FIXTURES AND SWITCHES ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
- REMOVE EXISTING RECEPTACLE FOR IT RACK AND REPLACE WITH RED EMERGENCY RECEPTACLE. CONNECT TO NEW CIRCUIT AS NOTED. CONNECTION CAN BE MADE AT ANY POINT IN EXISTING WIRING TO RECEPTACLE AS LONG AS EXISTING CIRCUIT CONTINUITY IS MAINTAINED FOR ANY OTHER DEVICES ON EXISTING CIRCUIT. IF RECEPTACLE IS THE ONLY EQUIPMENT ON EXISTING CIRCUIT, TURN OFF BREAKER AND MARK AS SPARE IN SCHEDULE AND REMOVE ALL WIRE AND CONDUIT BACK TO PANEL.
- DISCONNECT FIRE ALARM PANEL/SECURITY SYSTEM PANEL FROM EXISTING CIRCUIT AND CONNECT TO NEW EMERGENCY CIRCUIT AS INDICATED. MAINTAIN CIRCUIT CONTINUITY FOR OTHER LOADS ON CIRCUIT IF PRESENT. IF NO OTHER LOADS ARE PRESENT REMOVE WIRE AND CONDUIT BACK TO PANEL, TURN OFF BREAKER AND MARK AS SPARE.
- DISCONNECT LIGHTS FROM EXISTING CIRCUIT AND RECONNECT TO CIRCUIT ESHA-10. FIXTURES SHALL REMAIN ON SAME SWITCH CONTROL. MAINTAIN CONTINUITY OF EXISTING CIRCUIT. IF NO LOADS REMAIN ON CIRCUIT, REMOVE WIRE AND CONDUIT BACK TO PANEL, TURN OFF BREAKER AND MARK AS SPARE.
- FIXTURE NOT CURRENTLY ON 247. DISCONNECT FROM EXISTING SWITCH CONTROL AND CONNECT TO ESHA-8.
- APPROXIMATE LOCATION OF NEW GENERATOR. CONTRACTOR SHALL HAVE AREA SURVEYED FOR SUB-SURFACE UTILITIES AND COORDINATE ROUTING OF CONDUITS TO GENERATOR WITH EXISTING UTILITIES.
- REMOVE EXISTING PANEL-EM. CIRCUIT DIRECTORY INDICATES PANEL FEEDS EXIT AND EMERGENCY LIGHTS, FIRE ALARM AND CONTROLS. TRACE CIRCUITS TO CONFIRM ALL LOADS HAVE BEEN REASSIGNED TO NEW EMERGENCY PANELS. NOTIFY OWNER AND ENGINEER IF ANY CIRCUITS ARE NOT ACCOUNTED FOR.
- CONSTRUCT UNISTRUT RACK(S) ANCHORED TO FLOOR AND SUPPORTED BY CEILING STRUCTURE TO MOUNT NEW TRANSFER SWITCHES AND PANELS AND WIREWAY AND CIRCUIT BREAKERS.
- TERMINATE CIRCUIT FOR WALK-IN COOLER ABOVE CEILING IN EXACT LOCATION OF TERMINATION WITH SEPARATE PROJECT TO REPLACE COOLER.
- TERMINATE CIRCUIT FOR WALK-IN FREEZER ABOVE CEILING IN KITCHEN. COORDINATE EXACT LOCATION OF TERMINATION WITH SEPARATE PROJECT TO INSTALL FREEZER. FREEZER WILL BE LOCATED OUTSIDE.
- INSTALL GENERATOR REMOTE ANNUNCIATOR IN ROOM. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN AND INSTALLATION.
- CONNECT CIRCUIT TO GENERATOR CONTROL PANEL. ALSO PROVIDE 1" CONDUIT FOR CONTROL WIRING TO TRANSFER SWITCHES AND WIRING TO REMOTE ANNUNCIATOR. PROVIDE (2) #14 STRANDED COPPER WIRE TO EACH ATS AND (2) #14 STRANDED COPPER WIRE AND (1) BELDEN 9841 TO REMOTE ANNUNCIATOR. PROVIDE (4) ADDITIONAL SPARE CONTROL WIRES IN CONDUIT. MARK WIRES AS SPARE ON BOTH ENDS.
- UNDERGROUND FEED FROM GENERATOR TO WIREWAY AT ATS. COORDINATE EXACT ROUTING WITH SUB-SURFACE UTILITY SURVEY. TURN CONDUITS UP AT WALL OF BUILDING AND PENETRATE ABOVE GRADE. COORDINATE ENTRY POINT AND ELEVATION WITH EXISTING CONDITIONS ON OUTER WALL AND INSIDE MECHANICAL ROOM. PULL POWER FEED, CONTROL PANEL POWER FEED AND CONTROL WIRING CONDUITS IN SAME TRENCH.
- DISCONNECT LIGHTS FROM EXISTING CIRCUIT AND RECONNECT TO CIRCUIT ESHA-15. FIXTURES SHALL REMAIN ON SAME SWITCH CONTROL. MAINTAIN CONTINUITY OF EXISTING CIRCUIT. IF NO LOADS REMAIN ON CIRCUIT, REMOVE WIRE AND CONDUIT BACK TO PANEL, TURN OFF BREAKER AND MARK AS SPARE.
- DISCONNECT LIGHTS FROM EXISTING CIRCUIT AND RECONNECT TO CIRCUIT ESHA-16. FIXTURES SHALL REMAIN ON SAME SWITCH CONTROL. MAINTAIN CONTINUITY OF EXISTING CIRCUIT. IF NO LOADS REMAIN ON CIRCUIT, REMOVE WIRE AND CONDUIT BACK TO PANEL, TURN OFF BREAKER AND MARK AS SPARE.
- REMOVE EXISTING RECEPTACLE FOR PA SYSTEM AND REPLACE WITH RED EMERGENCY RECEPTACLE. CONNECT TO NEW CIRCUIT AS NOTED. CONNECTION CAN BE MADE AT ANY POINT IN EXISTING WIRING TO RECEPTACLE AS LONG AS EXISTING CIRCUIT CONTINUITY IS MAINTAINED FOR ANY OTHER DEVICES ON EXISTING CIRCUIT. IF RECEPTACLE IS THE ONLY EQUIPMENT ON EXISTING CIRCUIT, TURN OFF BREAKER AND MARK AS SPARE IN SCHEDULE AND REMOVE ALL WIRE AND CONDUIT BACK TO PANEL.



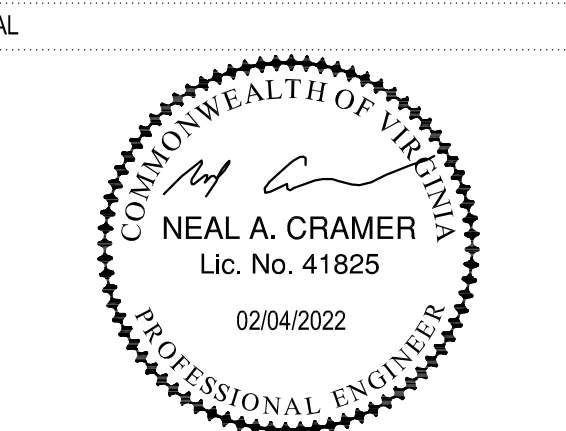
1 SECOND FLOOR PLAN
SCALE: 1/16" = 1'-0"

2 ENLARGED MECHANICAL ROOM
SCALE: 1/8" = 1'-0"

GREER ELEMENTARY SCHOOL
GENERATOR
ACPS# 2022-IFB-3031533

ALBEMARLE COUNTY
PUBLIC SCHOOLS
190 LAMBS LANE
CHARLOTTESVILLE, VA 22901

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ENERGY BY DESIGN
100 10th St. NE, Suite 202
Charlottesville, VA 22902
434.296.2116
2RW.com



KEY PLAN

SUBMISSION / REVISION DATE
DESCRIPTION OF SUBMISSION / REV. 00.00.0000

DRAWING PHASE
BID SET

DRAWING TITLE:
SECOND FLOOR PAN

DRAFTED BY: BJP CHECKED BY: NAC
DATE: 02-04-2022

E1.02