

Generator and Electrical Equipment Replacement

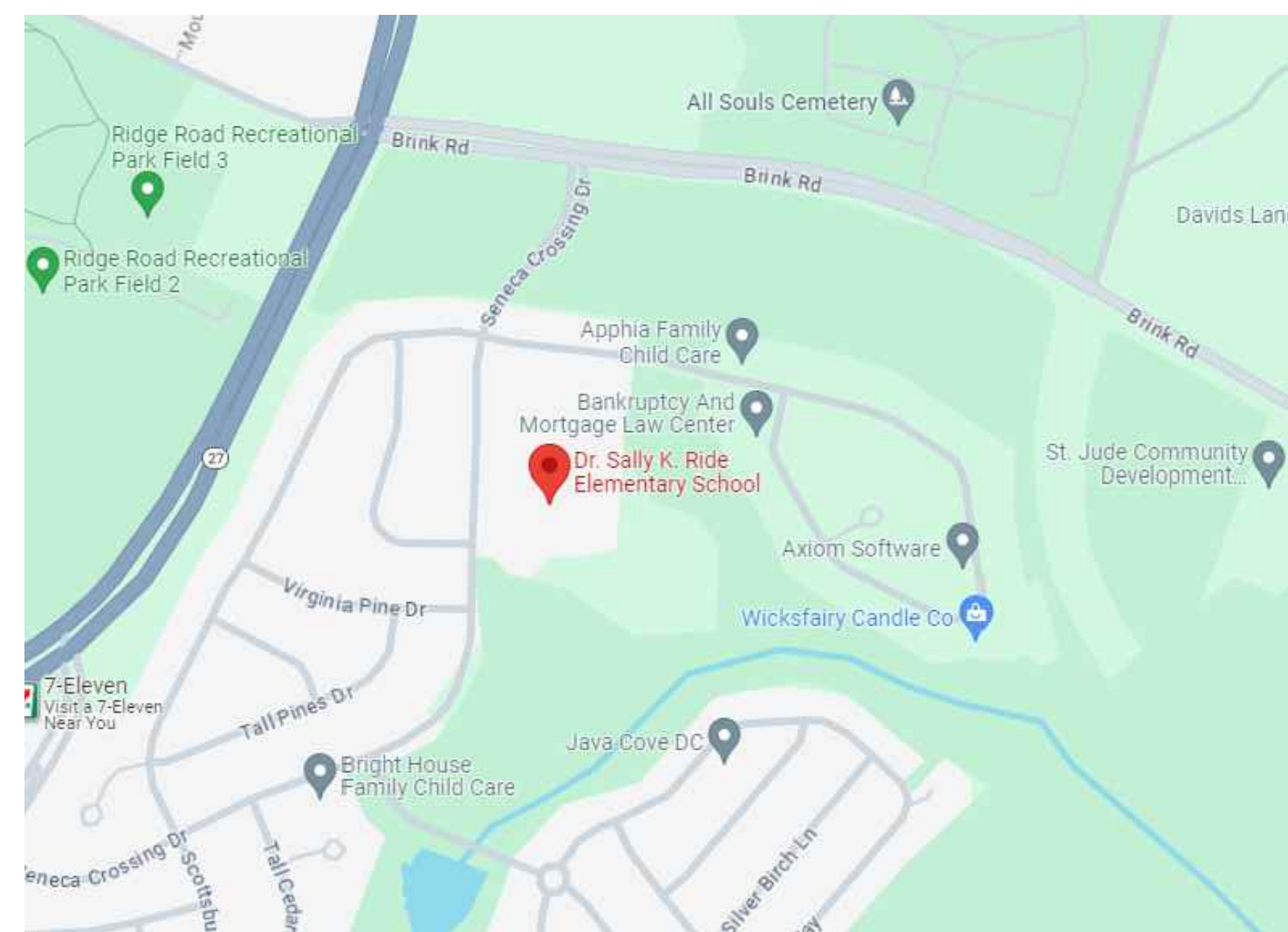
DR. SALLY K. RIDE ELEMENTARY SCHOOL

21301 SENECA CROSSING DRIVE, GERMANTOWN, MD 20876
 Montgomery County Public Schools

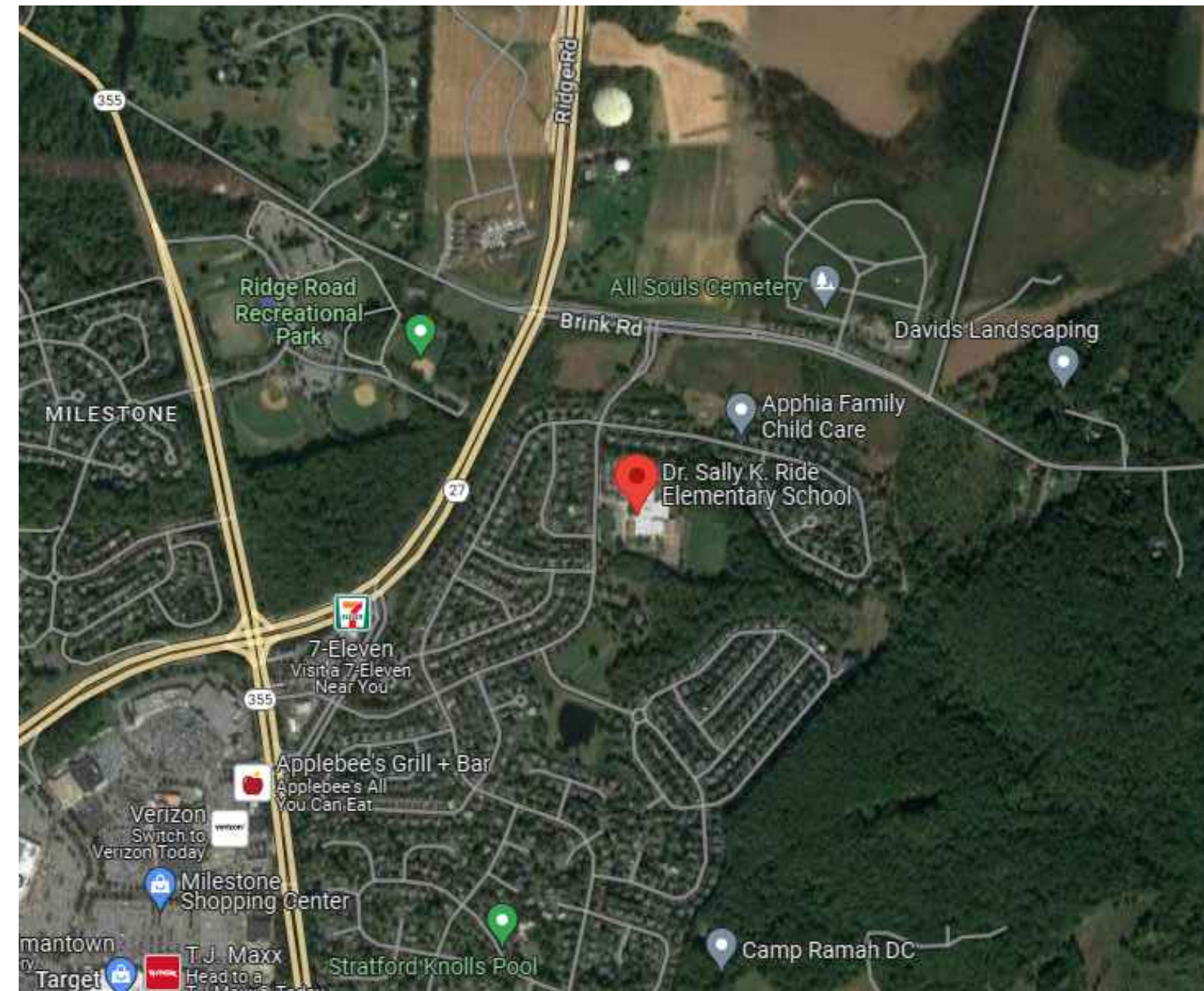
MECHANICAL AND ELECTRICAL ENGINEERS
 JAMES POSEY ASSOCIATES, INC.
 11155 RED RUN BOULEVARD, SUITE 310
 BALTIMORE, MARYLAND 21117
 PHONE: 410.265.6100

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT
DR. SALLY K. RIDE ELEMENTARY SCHOOL
 21301 SENECA CROSSING DRIVE
 GERMANTOWN, MD 20876
 MONTGOMERY COUNTY PUBLIC SCHOOLS

VICINITY PLAN



AERIAL SITE PLAN



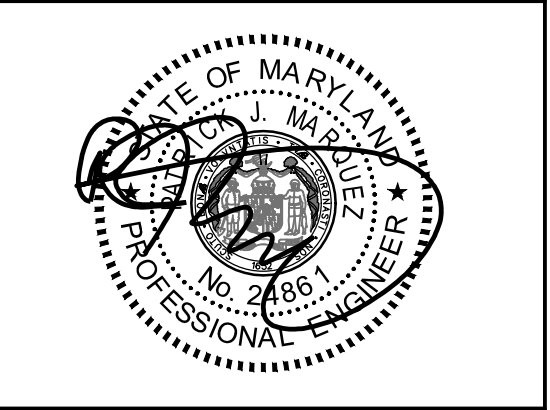
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PROFESSIONAL CERTIFICATION

These contract documents for Dr. Sally K. Ride Elementary School were prepared under my supervision and to the best of my knowledge, information, and belief, they comply with the relevant building codes of the State of Maryland.

04/10/24 (Date)
 Maryland Professional Engineer Registration No. 24861



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland. License No. 24861. Expiration date: 02-24-2026.

APPLICABLE CODES & STANDARDS

- 2018 IBC: INTERNATIONAL BUILDING CODE
- 2018 IMC: INTERNATIONAL MECHANICAL CODE
- 2018 IPC: INTERNATIONAL PLUMBING CODE WITH WSSC AMENDMENTS
- ASHRAE 90.1: ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL BUILDINGS.
- NEC 2017: NATIONAL ELECTRICAL CODE
- ASHRAE 2017-2020 HANDBOOKS.

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 Engineering Your Vision

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BOARD OF EDUCATION

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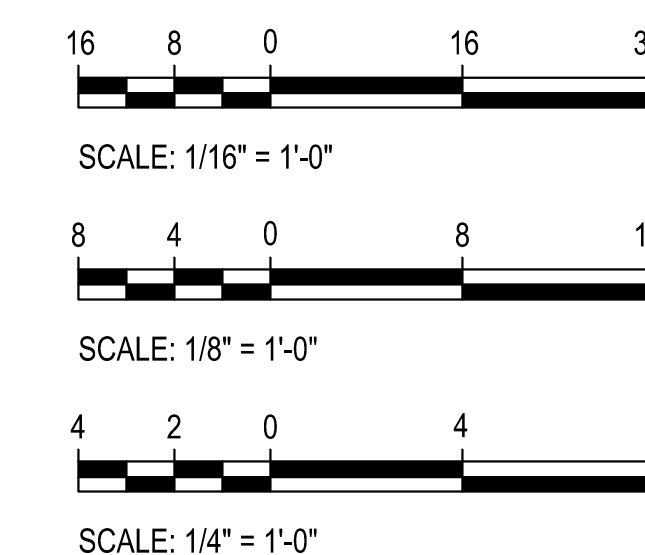
CODE ANALYSIS

CODE ANALYSIS (FROM INTERNATIONAL BUILDING CODE(2018))		
	EXISTING BLDG	PROPOSED ALTERATION
IBC OCCUPANCY CLASSIFICATION	E	THE SCOPE OF THIS WORK IS TO REPLACE EXISTING GENERATOR AND REVISE NORMAL LIGHTING CIRCUITS IN TOILET ROOMS, BOILER ROOM AND ELEC ROOM TO EMERGENCY LIGHTING.
TYPE OF CONSTRUCTION	IIB	THERE IS NO INCREASE IN FLOOR AREA, NO SITE CHANGES, NO CHANGE IN CLASSIFICATION OR TYPE OF CONSTRUCTION.
NUMBER OF STORIES ABOVE GRADE	2	
HIGH RISE (Y/N)	N	
FIRE ALARM (Y/N)	Y	
FULLY SPRINKLERED (Y/N)	Y	
TOTAL BUILDING FLOOR AREA	78,686 SF	

SCOPE OF WORK

- SCOPE OF WORK GENERALLY CONSISTS OF THE FOLLOWING OVER TWO PHASES. PHASE 1 SHALL CONSIST OF THE FOLLOWING:
- * PROVIDE CONDUITS AND RACEWAYS FOR NEW GENERATOR.
 - * PROVIDE CONDUITS AND RACEWAYS FOR NEW DEVICES AND CONNECTIONS TO EXISTING EQUIPMENT. FINAL CONNECTIONS TO NEW DEVICES AND EXISTING EQUIPMENT SHALL BE PERFORMED DURING THE SECOND SUMMER.
 - * PROVIDE NEW CONCRETE PAD FOR NEW GENERATOR.
 - * CONNECT LIGHTING FIXTURES IN TOILET ROOMS ON NORMAL CIRCUITS TO EXISTING EMERGENCY LIGHTING CIRCUITS, WHERE INDICATED ON DRAWINGS.
- PROJECT SCOPE SHALL INCLUDE THE WORK FOR PHASE 2:
- * PROVIDE NEW GENERATOR AND ASSOCIATED EQUIPMENT.
 - * CONNECT EXISTING BOILERS AND ASSOCIATED PUMPS TO THE NEW STANDBY PANELBOARD.
 - * CONNECT EXISTING KITCHEN REFRIGERATION EQUIPMENT TO NEW STANDBY PANELBOARD.
 - * CONNECT EXISTING INTERCOMMUNICATIONS/PUBLIC ADDRESS SYSTEM TO THE NEW STANDBY PANELBOARD.
 - * CONNECT EXISTING MAIN TELECOM ROOM RECEPTACLES TO THE NEW STANDBY PANELBOARD.
 - * CONNECT NORMAL LIGHTING FIXTURES IN THE MAIN MECHANICAL ROOM/BOILER ROOM AND MAIN ELECTRICAL ROOM TO THE NEW EMERGENCY PANELBOARD.
 - * CONNECT LIGHTING FIXTURES IN TOILET ROOMS ON NORMAL CIRCUITS TO THE NEW EMERGENCY PANELBOARD, WHERE INDICATED ON DRAWINGS.
- THE SCOPE OF WORK INDICATED ON THIS SHEET IS INTENDED AS A BRIEF SUMMARY FOR GENERAL INFORMATIONAL PURPOSES ONLY, AND DOES NOT NECESSARILY INCLUDE ALL OF THE WORK REQUIRED. THE CONTRACTOR SHALL PROVIDE MATERIALS AND LABOR AS REQUIRED TO COMPLETE THE WORK AS INDICATED IN THE CONTRACT DOCUMENTS.

GRAPHIC SCALES



CAUTION: EXCEPT WHERE DIMENSIONS ARE INDICATED, GRAPHIC SCALE MUST BE USED.

Tag	Description	Date
	BID SET	04/10/24
PSC No		
Scale	AS NOTED	
Project No	7905-23	
Date	APRIL 10, 2024	
Drawing Title	TITLE SHEET	
Sheet No:	T-1	

MECHANICAL SYMBOLS AND ABBREVIATIONS			
— G —	LOW PRESSURE GAS PIPE	∅	INDICATES DIAMETER
— G (2 PSI) —	MEDIUM PRESSURE GAS PIPE	A/D	ACCESS DOOR
— E —	PIPE CAP OR PLUG	AAV	AUTOMATIC AIR VENT
— U —	UNION	ABV	ABOVE
— S —	SHUT-OFF VALVE	AFF	ABOVE FINISHED FLOOR
— SV —	SOLENOID VALVE	BLDG	BUILDING
— PRV —	PRESSURE REDUCING / REGULATING VALVE	BLW	BELOW
— M —	METER	BTUH	BRITISH THERMAL UNITS PER HOUR
— GC —	GAUGE COCK / TEST PORT	CFH	CUBIC FEET PER HOUR
— CR —	CONCENTRIC REDUCER	CFM	CUBIC FEET PER MINUTE
— ER —	ECCENTRIC REDUCER	CLG	CEILING
— BFP —	BACKFLOW PREVENTER	CONC	CONCRETE
— FDA —	FLOW DIRECTION ARROW	CW	DOMESTIC COLD WATER PIPE
— STR —	STRAINER	DIA	DIAMETER
●	POINT OF CONNECTION, NEW TO EXISTING	EA	EXHAUST AIR
●	DEMOLITION WORK TERMINATION POINT	ETR	EXISTING TO REMAIN
①	SYMBOL FOR SPECIFIC NOTE. NOTE APPLIES TO DRAWING ON WHICH IT OCCURS.	EX	EXISTING
③	DETAIL OR DIAGRAM NO. 3 SHOWN ON DRAWING M-1	EXH	EXHAUST
		FL	FLOOR
		FT	FEET
		G	GAS PIPE
		GALV	GALVANIZED
		IN	INCH, INCHES
		MAX	MAXIMUM
		MBH	THOUSAND BTU'S PER HOUR
		MCPS	MONTGOMERY COUNTY PUBLIC SCHOOLS
		MECH	MECHANICAL
		MFR	MANUFACTURER
		MIN	MINIMUM
		NC	NORMALLY CLOSED
		NIC	NOT IN CONTRACT
		NO	NORMALLY OPEN
		OA	OUTDOOR AIR
		PSI	POUNDS PER SQUARE INCH
		RX	REMOVE EXISTING
		TYP	TYPICAL
		UON	UNLESS OTHERWISE NOTED

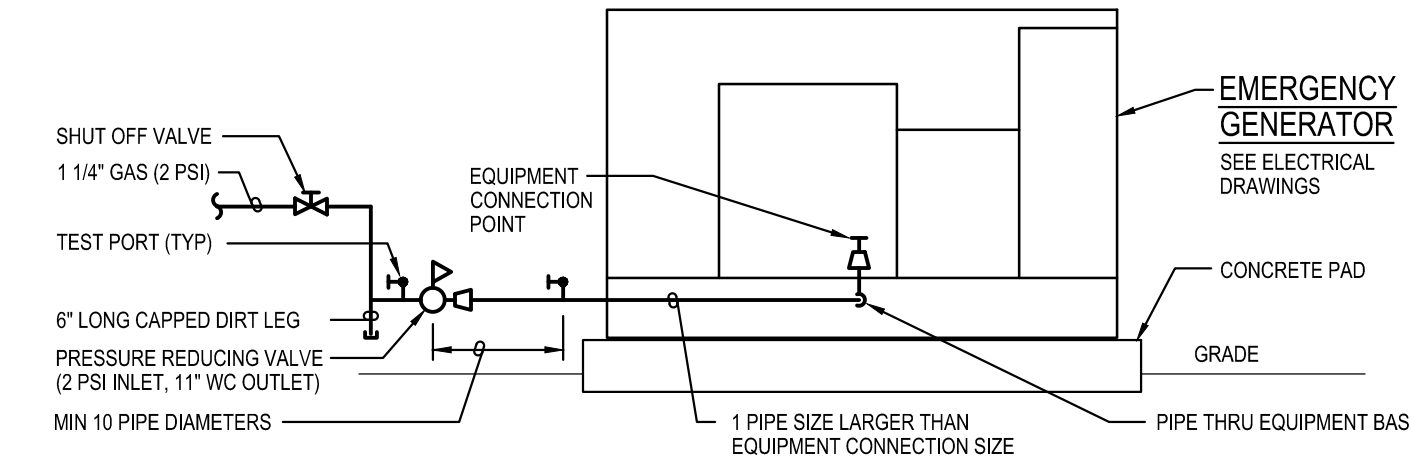
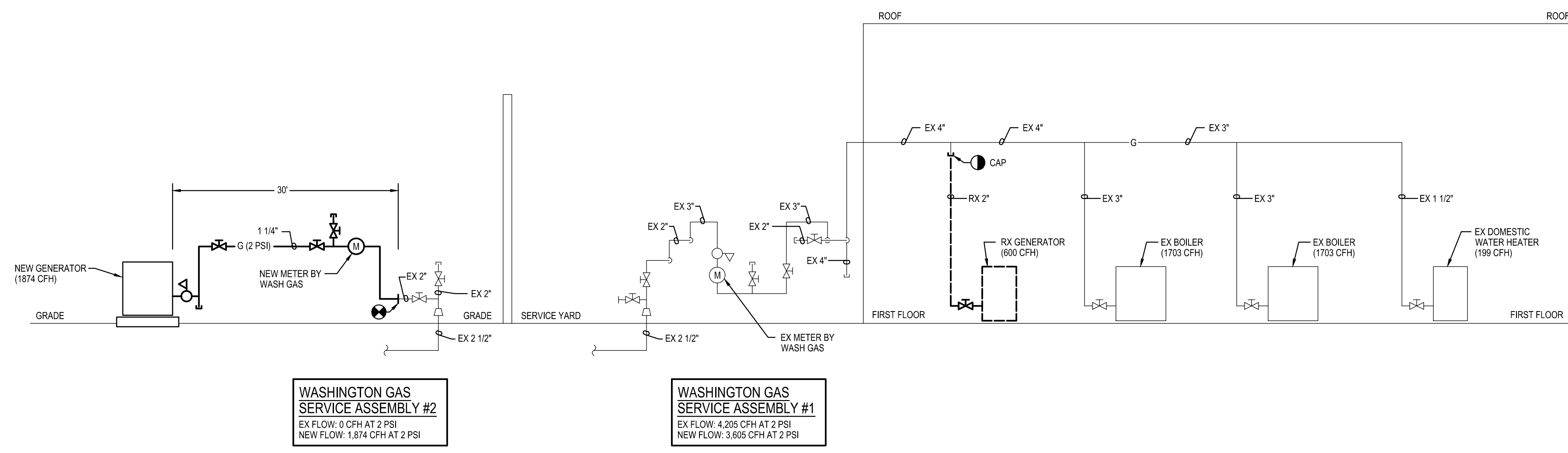


DIAGRAM 1 M-1
EQUIPMENT CONNECTION
 NOT TO SCALE

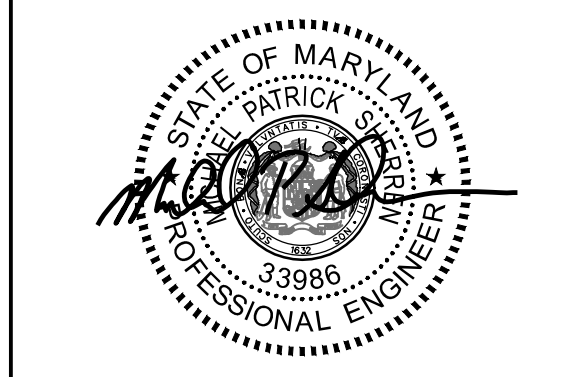


WASHINGTON GAS SERVICE ASSEMBLY #2
 EX FLOW: 8 CFH AT 2 PSI
 NEW FLOW: 1.874 CFH AT 2 PSI

WASHINGTON GAS SERVICE ASSEMBLY #1
 EX FLOW: 4.255 CFH AT 2 PSI
 NEW FLOW: 3.655 CFH AT 2 PSI

ABOVE GROUND PIPE: SCHEDULE 40 STEEL PIPE
 BELOW GROUND PIPE: POLYETHYLENE PIPE
 PIPE AND VENT REGULATORS PER IFGC 2018
 408.410.2 AND 410.3

DIAGRAM 2 M-1
GAS RISER
 NOT TO SCALE



Professional Certification:
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland. License No. 33986.
 Expiration date: 01-16-2025.

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 Mechanical & Electrical Consulting Engineers
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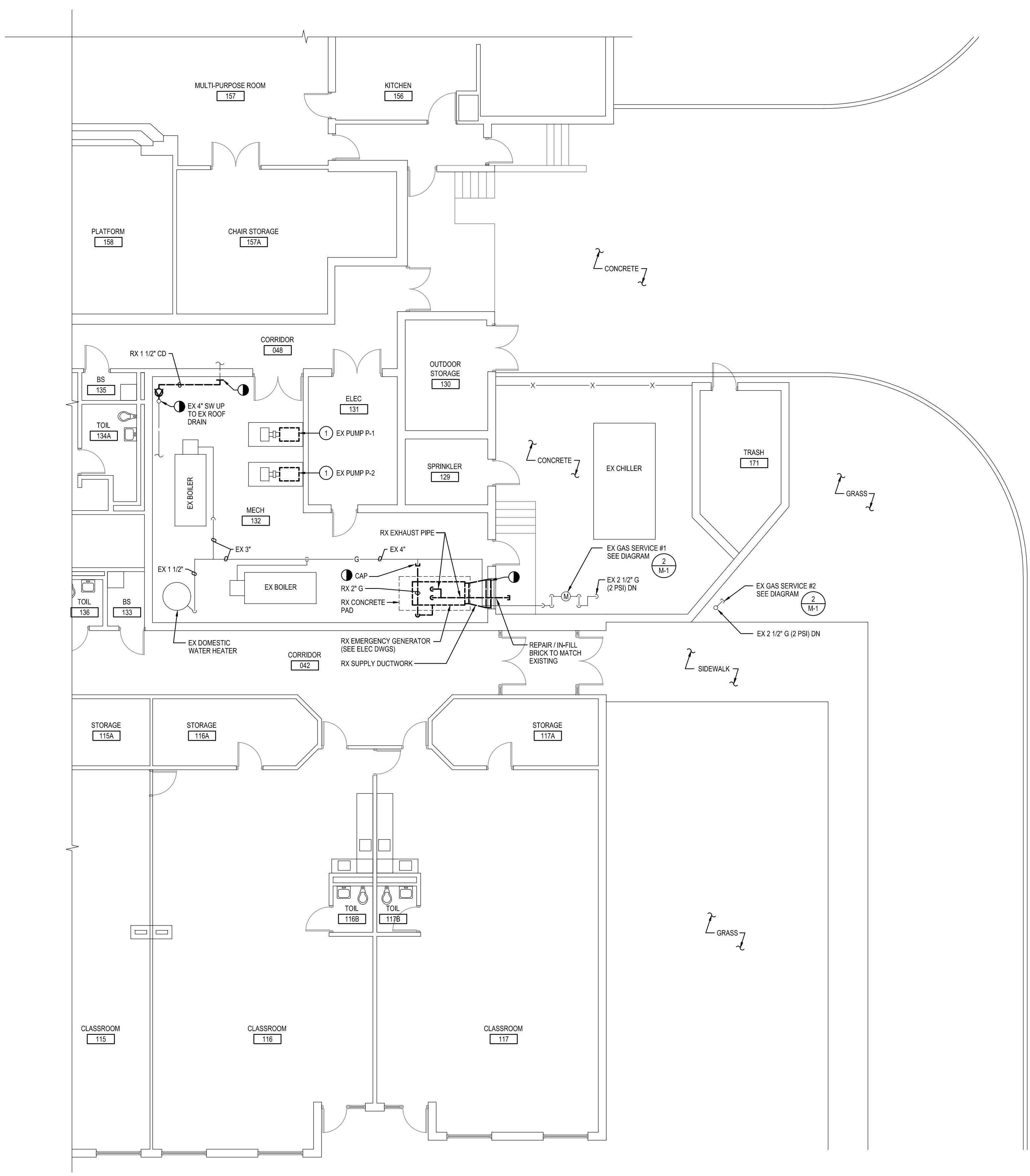
PSC No	
Scale	AS NOTED
Project No	7905-23
Date	APRIL 10, 2024

Drawing Title
DIAGRAMS, SYMBOLS AND ABBREVIATIONS

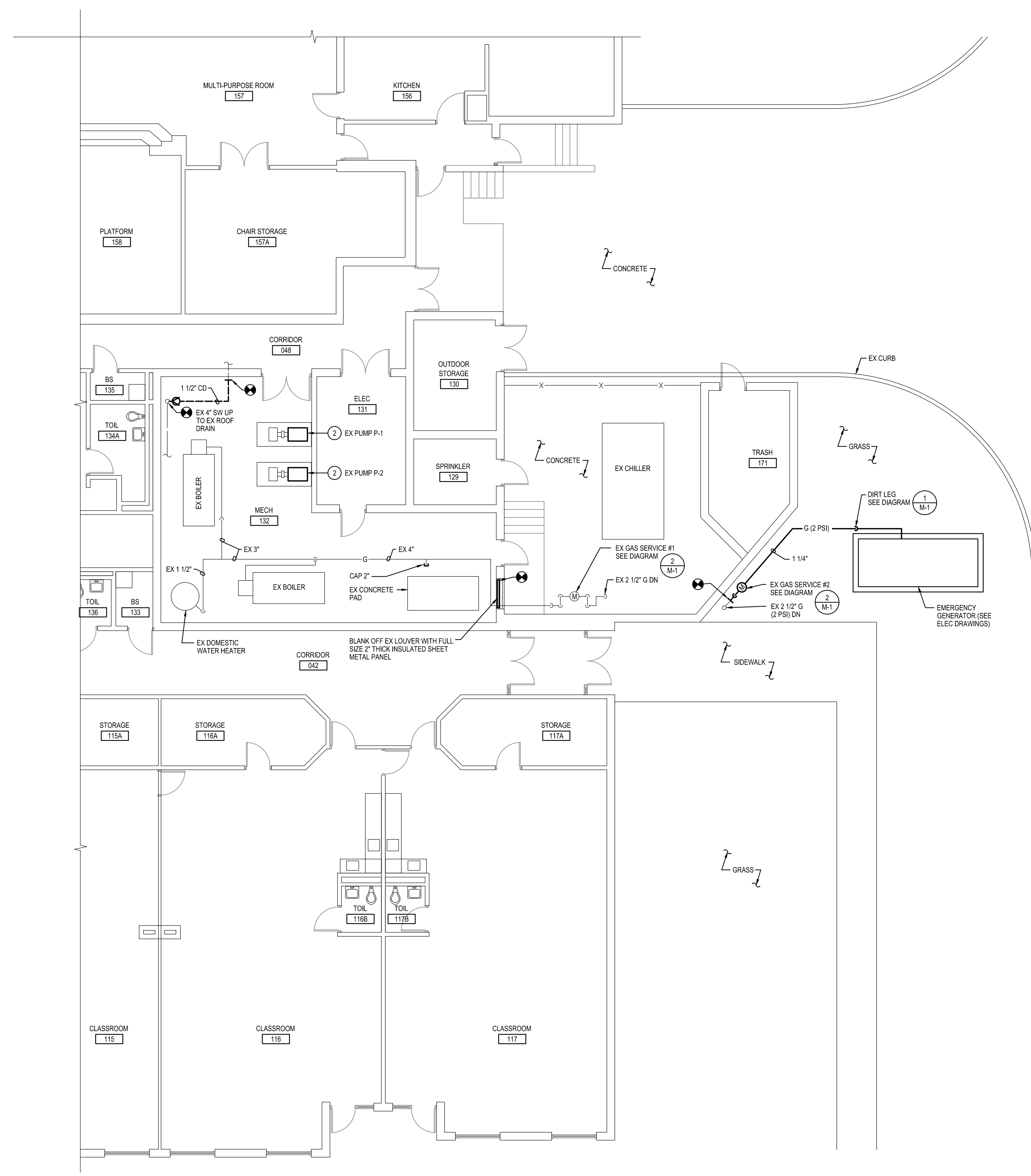
Sheet No:
M-1

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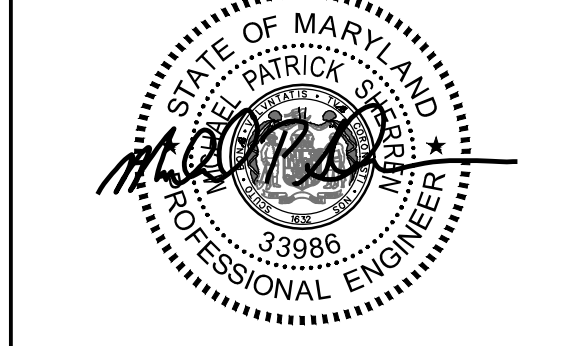
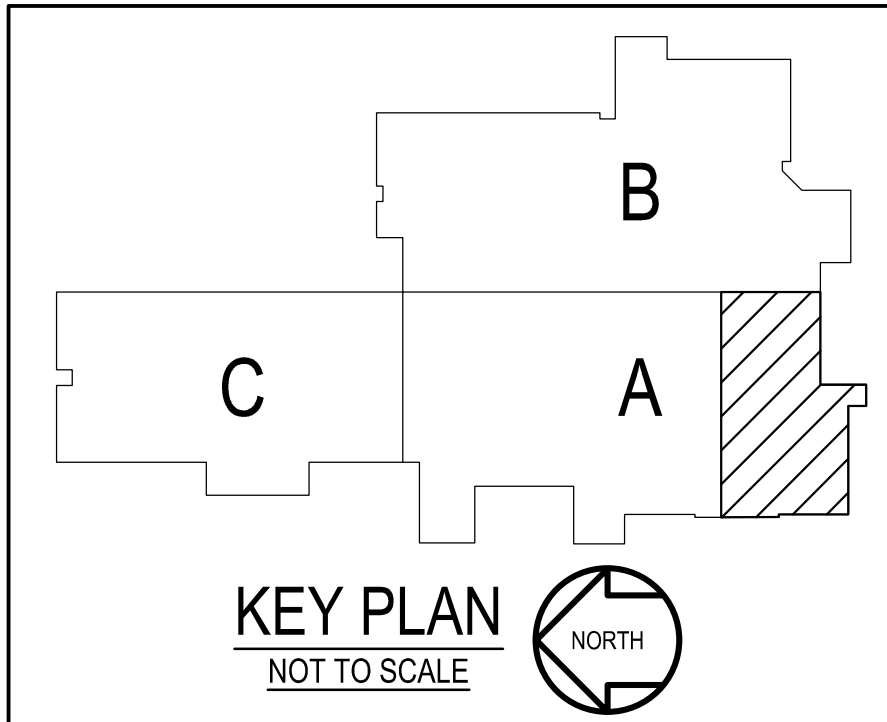
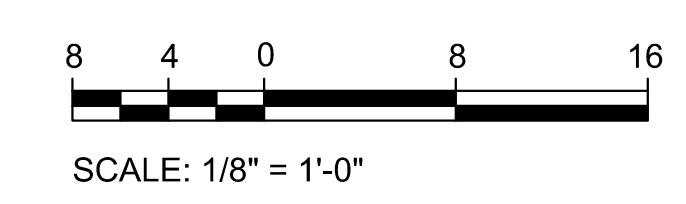
- GENERAL NOTES:**
- INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AVOID PROCEEDING BEFORE PROCEEDINGS WITH THE WORK.
 - DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY MECHANICAL AND RELATED ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
 - UNLESS OTHERWISE NOTED, MECHANICAL PLUMBING ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED, ITEMS SHOWN HEAVY SOLID SHALL BE NEW (—) AND ITEMS SHOWN LIGHT (---) SHALL REMAIN.
 - NEW GENERATOR AND GAS PIPING TO BE INSTALLED BEFORE EXISTING IS REMOVED. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL PHASING INFORMATION.
- SPECIFIC NOTES:**
- DETERMINE AND DOCUMENT EXISTING PUMP GPM FLOW AND SYSTEM PRESSURE PRIOR TO MOTOR DEMOLITION.
 - BALANCE EXISTING PUMP TO GPM FLOW RATE RECORDED PRIOR TO MOTOR REPLACEMENT. FULLY OPEN ANY BALANCING VALVE AT PUMP AND USE VFD TO RE-ESTABLISH ORIGINAL FLOW RATE.



1
M-1
PART FIRST FLOOR PLAN
DEMOLITION
 SCALE: 1/8" = 1'-0"



2
M-1
PART FIRST FLOOR PLAN
NEW WORK
 SCALE: 1/8" = 1'-0"



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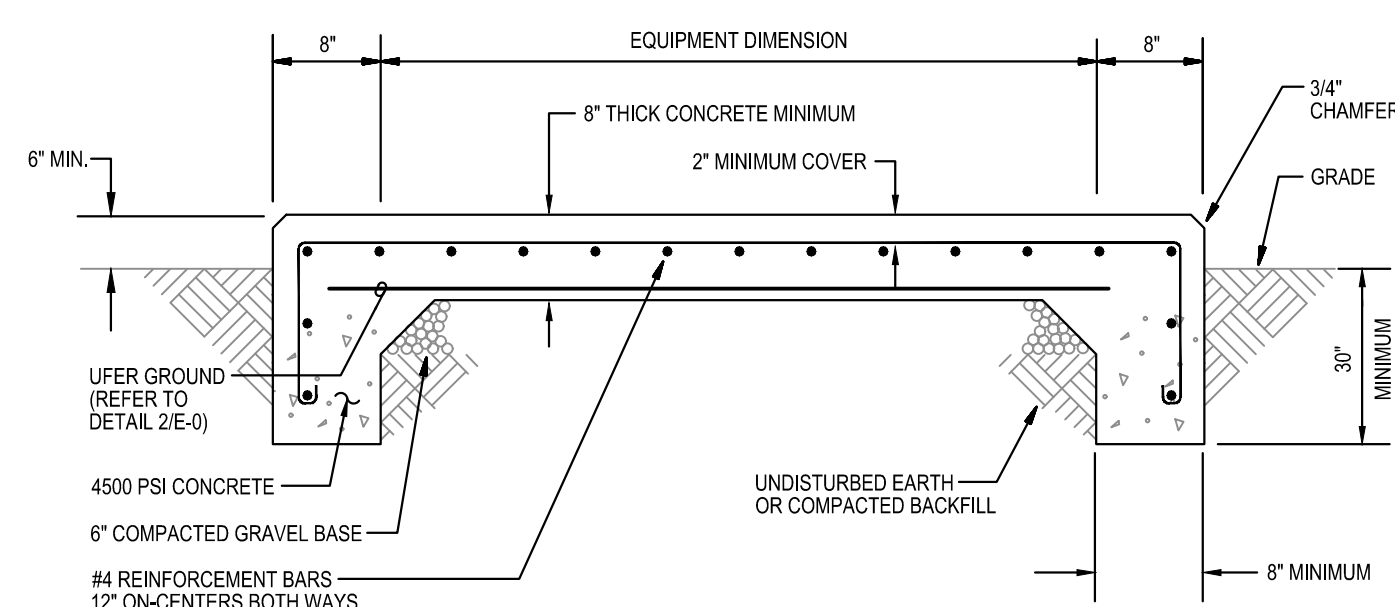
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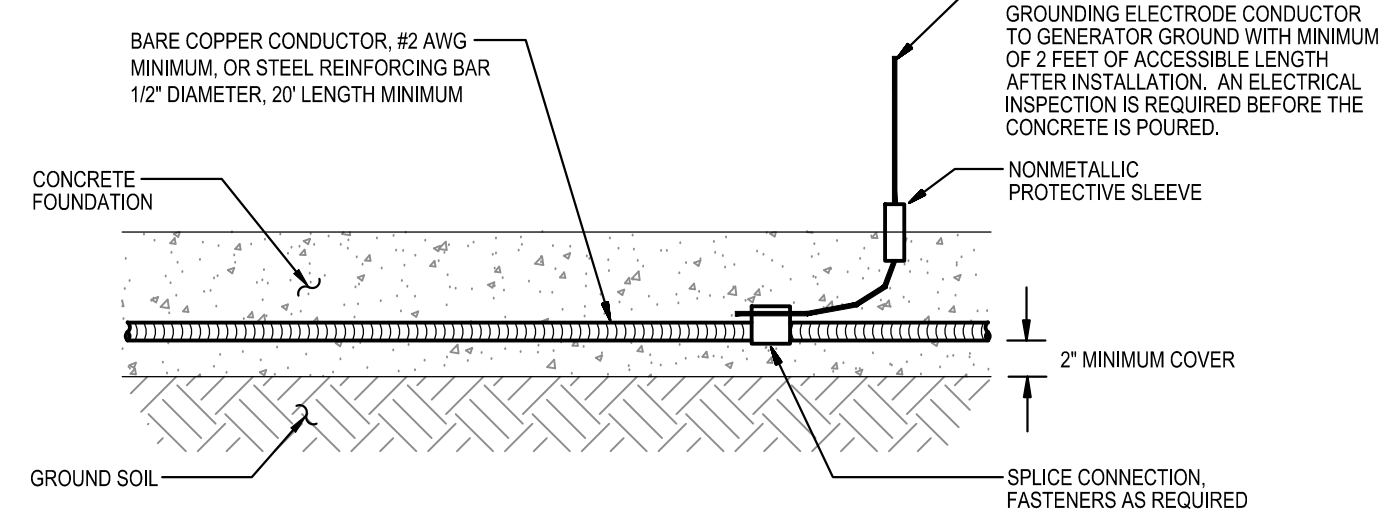
PSC No	
Scale	AS NOTED
Project No	7905-23
Date	APRIL 10, 2024

Drawing Title
PART FIRST FLOOR PLANS - DEMOLITION AND NEW WORK

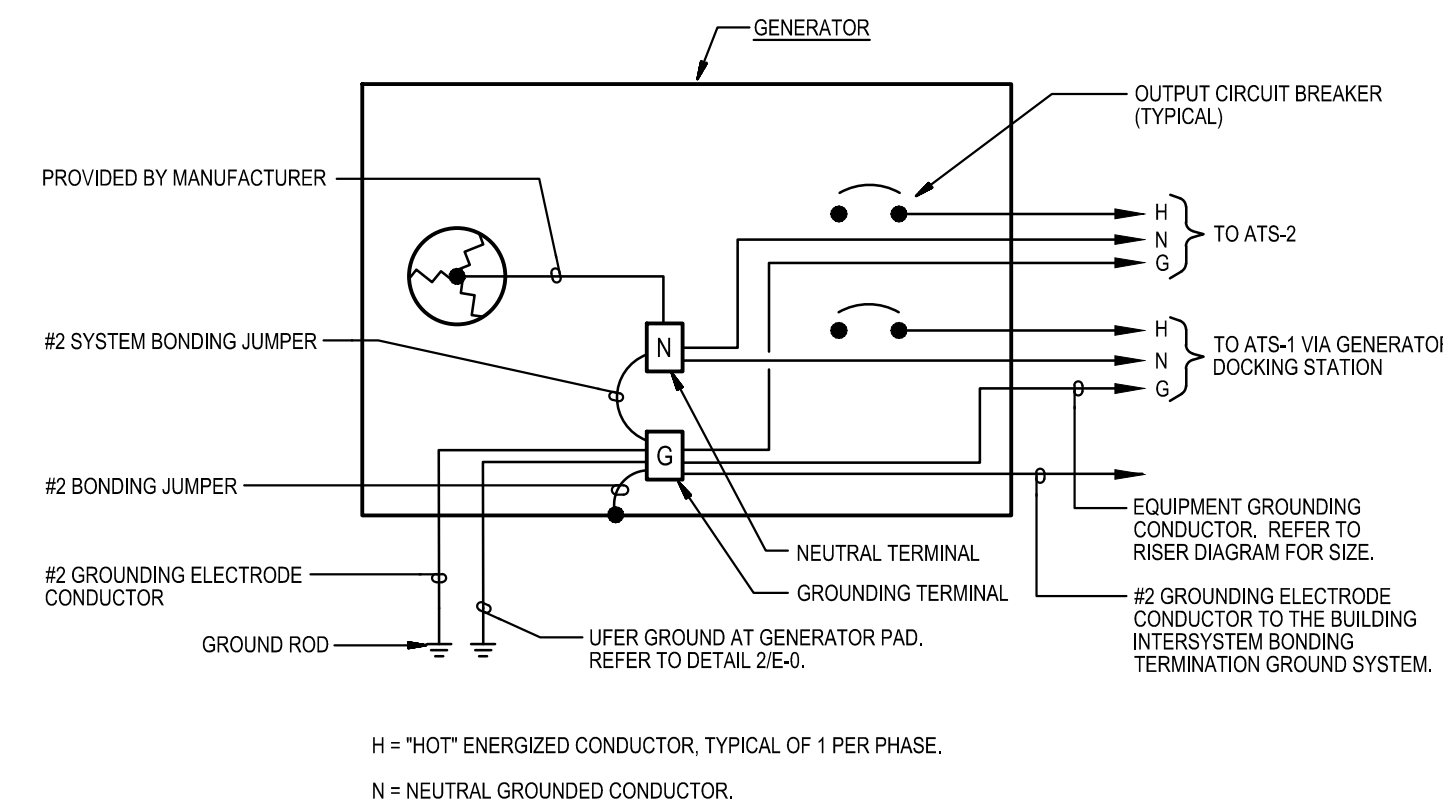
Sheet No:
M-2



1
E-0
DETAIL
GENERATOR CONCRETE PAD
NOT TO SCALE



2
E-0
DETAIL
TYPICAL UFER GROUND
NOT TO SCALE



3
E-0
DIAGRAM
GENERATOR GROUNDING WIRING
NOT TO SCALE

ELECTRICAL SYMBOLS AND ABBREVIATIONS

GENERAL

- ① DENOTES REFERENCE TO SPECIFIC NOTE ON DRAWING.
- Ⓛ DETAIL, DIAGRAM OR PLAN NUMBER
- Ⓛ E-0 DRAWING NUMBER WHERE DETAIL, DIAGRAM OR PLAN IS LOCATED.
- #/E-# DETAIL, DIAGRAM OR PLAN REFERENCE: DETAIL, DIAGRAM OR PLAN NUMBER/DRAWING NUMBER

NOTES:

- A. PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
- B. PROVIDE RIGID GALVANIZED STEEL (RGS) CONDUIT ELBOWS WHERE CONDUIT IS STUBBED UP THROUGH CONCRETE SLAB OR WHERE PENETRATING FLOOR SLABS.
- C. THE EXISTING FACILITY WILL REMAIN IN OPERATION DURING RENOVATION. INTERRUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL BE COORDINATED WITH THE USER TO MINIMIZE DISRUPTION. INTERRUPTION OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORK HOURS.

DEMOLITION

- EM--- DISCONNECT AND REMOVE EXISTING WIRING IN CONDUIT.
- Ⓛ DISCONNECT AND REMOVE EXISTING HOMERUN WIRING IN CONDUIT BACK TO SOURCE.
- Ⓛ DISCONNECT AND REMOVE EXISTING PANELBOARD AS NOTED.
- Ⓛ DISCONNECT AND REMOVE EXISTING TRANSFORMER.
- Ⓛ DISCONNECT AND REMOVE EXISTING ENCLOSED SWITCH (DISCONNECT/SAFETY SWITCH).
- Ⓛ DISCONNECT AND REMOVE EXISTING MOTOR STARTER.
- Ⓛ DISCONNECT AND REMOVE EXISTING MOTOR CONNECTION.

EXISTING

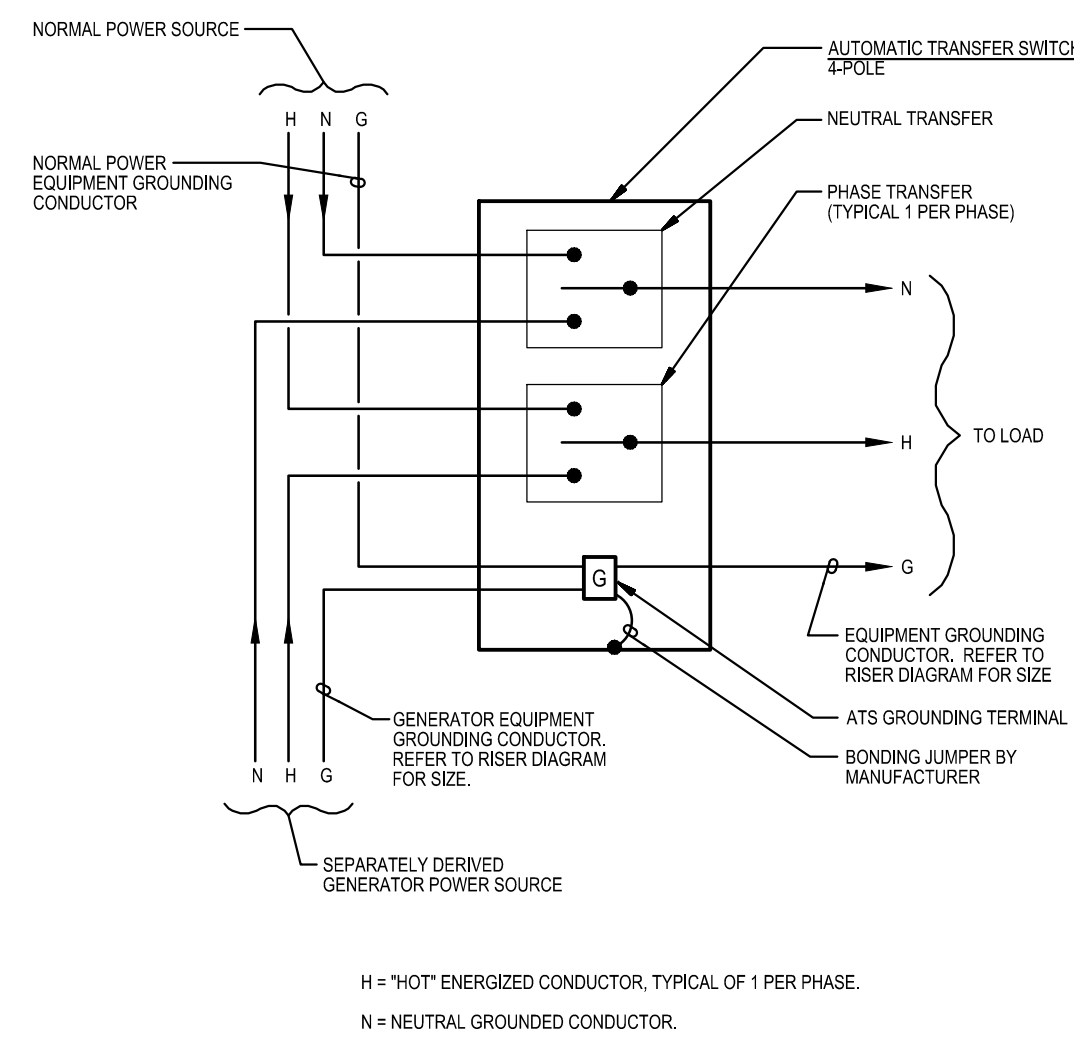
- Ⓛ EXISTING TO REMAIN WALL OUTLET AND LIGHTING FIXTURE.
- Ⓛ EXISTING TO REMAIN CEILING OUTLET AND LIGHTING FIXTURE.
- Ⓛ EXISTING TO REMAIN CEILING OUTLET AND LIGHTING FIXTURE ON GENERATOR POWER CIRCUIT, OR PREVIOUSLY ON NORMAL POWER CIRCUIT AND CHANGED TO GENERATOR POWER CIRCUIT.
- Ⓛ EXISTING TO REMAIN WALL MOUNTED SWITCH.
- Ⓛ EXISTING TO REMAIN EXIT SIGN.
- Ⓛ EXISTING TO REMAIN 120/208V PANELBOARD AS INDICATED, SURFACE OR RECESSED MOUNTED.
- Ⓛ EXISTING TO REMAIN 277/480V PANELBOARD AS INDICATED, SURFACE OR RECESSED MOUNTED.
- Ⓛ EXISTING TO REMAIN EQUIPMENT AS INDICATED.
- Ⓛ EXISTING TO REMAIN TRANSFORMER.
- Ⓛ EXISTING TO REMAIN WIRING IN CONDUIT.
- Ⓛ EXISTING TO REMAIN WIRING IN CONDUIT CONTINUED.
- Ⓛ EXISTING TO REMAIN HOMERUN WIRING IN CONDUIT BACK TO SOURCE.
- Ⓛ EXISTING MOTOR CONNECTION TO BE RECONNECTED WHERE INDICATED.
- Ⓛ EXISTING EQUIPMENT CONNECTION TO BE RECONNECTED WHERE INDICATED.
- Ⓛ EXISTING TO REMAIN ENCLOSED SWITCH (DISCONNECT/SAFETY SWITCH).
- Ⓛ EXISTING TO REMAIN DUPLEX RECEPTACLE.
- Ⓛ EXISTING TO REMAIN DOUBLE DUPLEX (QUAD) RECEPTACLE.

POWER

- Ⓛ HOMERUN TO PANELBOARD. NUMBER OF HASH MARKS INDICATES NUMBER OF WIRES PLUS GROUND WIRE. REFER TO PANEL SCHEDULES FOR CONDUCTOR SIZES. PROVIDE GROUND WIRES IN CONDUITS.
- Ⓛ HOMERUN TO PANELBOARD, RUN BELOW GRADE. NUMBER OF HASH MARKS INDICATES NUMBER OF WIRES PLUS GROUND WIRE. REFER TO PANEL SCHEDULES FOR CONDUCTOR SIZES. PROVIDE GROUND WIRES IN CONDUITS.
- Ⓛ WIRING IN CONDUIT RUN CONCEALED IN CEILING SPACE ABOVE CEILINGS AND EXPOSED IN OPEN CEILINGS. UNLESS OTHERWISE NOTED. WIRING IN CONDUIT DESIGNATED WITH "EM" DENOTE EMERGENCY LIGHTING CIRCUIT. PROVIDE GROUND WIRES IN CONDUITS.
- Ⓛ WIRING IN CONDUIT RUN BELOW GRADE.
- Ⓛ WIRING IN CONDUIT CONTINUED.
- Ⓛ JUNCTION BOX WITH BLANK COVER PLATE.
- Ⓛ ELECTRIC PANELBOARD (277/480V OR 120/208V), SURFACE MOUNTED.
- Ⓛ EQUIPMENT CABINET OR PULLBOX AS NOTED.
- Ⓛ AUTOMATIC TRANSFER SWITCH.
- Ⓛ VARIABLE FREQUENCY DRIVE.
- Ⓛ ENCLOSED SWITCH (DISCONNECT/SAFETY SWITCH) IN NEMA TYPE 1 ENCLOSURE, UNLESS OTHERWISE NOTED. MOUNT 5'-8" ABOVE FLOOR TO TOP OF ENCLOSURE, UNLESS OTHERWISE NOTED. RATING AND FUSING AS INDICATED.
- Ⓛ MOTOR CONNECTION.
- Ⓛ HARD-WIRED ELECTRICAL CONNECTION. CONNECT TO EQUIPMENT AS NOTED.
- Ⓛ SURGE PROTECTIVE DEVICE IN NEMA TYPE 1 ENCLOSURE, UNLESS OTHERWISE NOTED.
- Ⓛ TAMPER-RESISTANT DUPLEX RECEPTACLE (NEMA 5-20R) ON GENERATOR STANDBY POWER CIRCUIT. SURFACE WALL MOUNTED 48" ABOVE FLOOR TO TOP OF BOX. RECEPTACLES DESIGNATED WITH A "WP" SHALL BE WEATHER-RESISTANT AND GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLE (NEMA 5-20R) WITH WEATHERPROOF WHILE-IN-USE COVER. RECEPTACLES DESIGNATED WITH A "H" SHALL BE HOSPITAL GRADE TYPE.

FIRE DETECTION AND ALARM

- Ⓛ MONITOR MODULE, COMPATIBLE WITH EXISTING FIRE DETECTION AND ALARM SYSTEM. PROVIDE WIRING IN CONDUIT TO NEAREST EXISTING FIRE DETECTION SIGNALING LINE CIRCUIT (SLC) AND MAKE CONNECTIONS. WIRING SHALL BE PER FIRE DETECTION AND ALARM SYSTEM MANUFACTURER'S RECOMMENDATIONS. PROVIDE ADDITIONAL PROGRAMMING AT FIRE ALARM CONTROL PANEL AS REQUIRED.



4
E-0
DIAGRAM
AUTOMATIC TRANSFER SWITCH GROUND WIRING
NOT TO SCALE

EMERGENCY AND STANDBY POWER
150KW, 277/480 VOLTS, 3-PHASE, 4-WIRE
NATURAL GAS GENERATOR
LOCATED OUTDOORS
NEXT TO LOADING DOCK AND
TRASH ROOM BUILDING

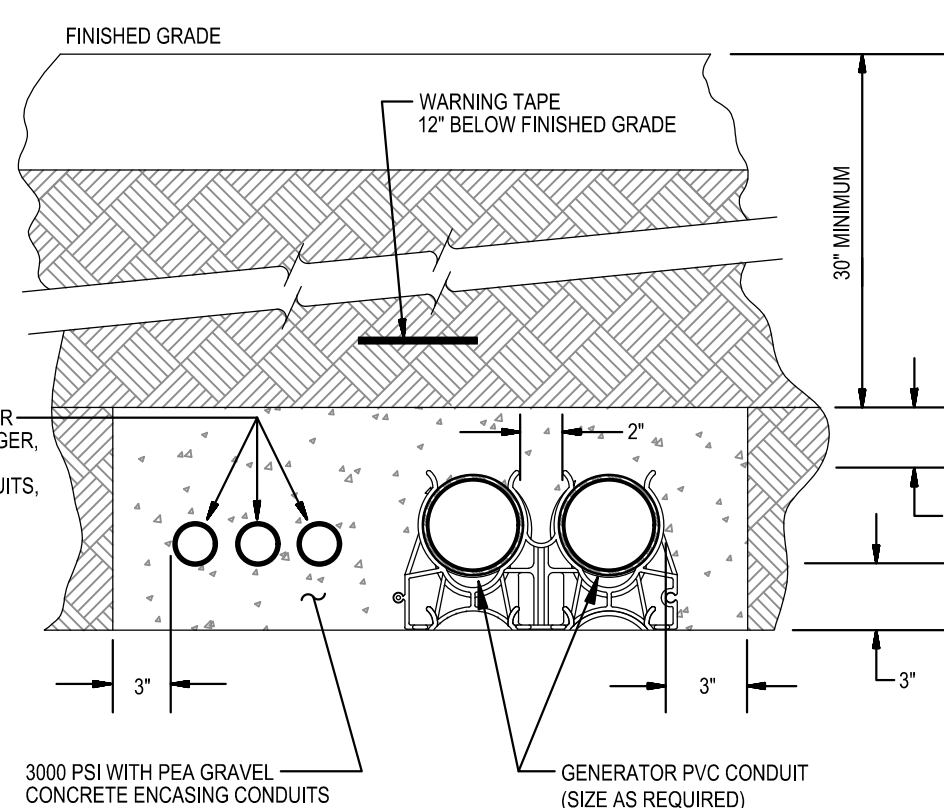
MECHANICALLY FASTEN SIGN TO FRONT OF MAIN SWITCHBOARD

5
E-0
DETAIL
PLACARD AT MAIN SERVICE
NOT TO SCALE

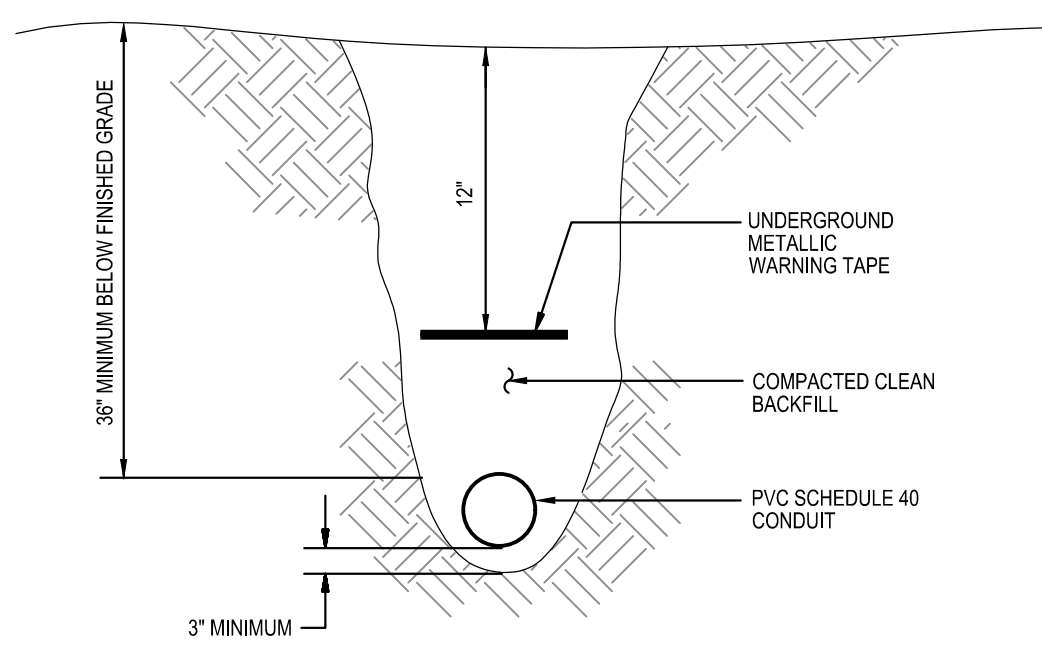
GENERATOR DOCKING STATION
FOR CONNECTIONS TO A TEMPORARY PORTABLE GENERATOR
CONFIGURE TEMPORARY PORTABLE GENERATOR WITH
GENERATOR NEUTRAL CONNECTED TO GENERATOR GROUND.
GENERATOR SHALL BE A SEPARATELY DERIVED SYSTEM.

MECHANICALLY FASTEN SIGN TO FRONT OF GENERATOR DOCKING STATION

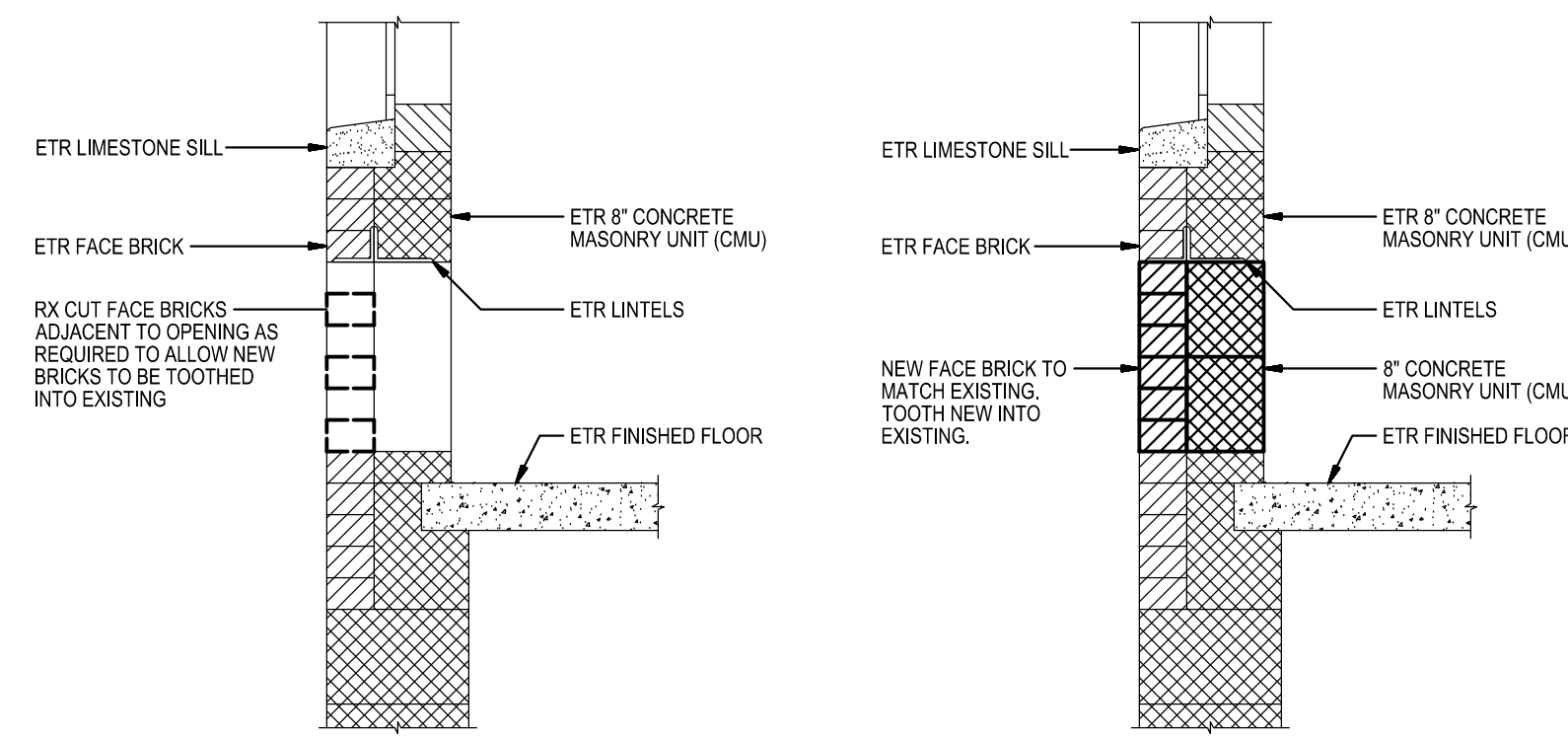
6
E-0
DETAIL
PLACARD AT GENERATOR DOCKING STATION
NOT TO SCALE



7
E-0
DETAIL
GENERATOR DUCTBANK
NOT TO SCALE



8
E-0
DETAIL
DIRECTLY-BURIED CONDUIT
NOT TO SCALE

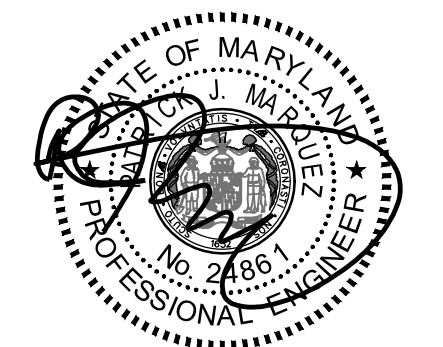


9
E-0
DETAIL
TYPICAL INFILL AT EXISTING MASONRY WALL OPENING
NOT TO SCALE

ABBREVIATIONS

A	AMP	AMPERE(S)	LTG	LIGHTING
AIC	AMPERES INTERRUPTING CAPACITY		MCPS	MONTGOMERY COUNTY PUBLIC SCHOOLS
ATC	AUTOMATIC TEMPERATURE CONTROLS		MDF	MAIN DISTRIBUTION FRAME
ATS	AUTOMATIC TRANSFER SWITCH		MIN	MINIMUM
BSO	BUILDING SERVICES OFFICE		MLO	MAIN LUGS ONLY
C	CONDUIT		N	NEUTRAL
CB	CIRCUIT BREAKER		NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CT	CURRENT TRANSFORMERS		P	POLE(S)
DIST	DISTRIBUTION		PA	PUBLIC ADDRESS
E	EXISTING		PH	PHASE
EM	EMERGENCY		PSI	POUNDS PER SQUARE INCH
ETR	EXISTING TO REMAIN		PVC	POLYVINYL CHLORIDE
EX	EXISTING		REC	RECEPTACLE
FACP	FIRE ALARM CONTROL PANEL		RM	ROOM
G	GROUND		RX	REMOVE EXISTING
GEN	GENERATOR		V	VOLT(S)
GFCI	GROUND FAULT CIRCUIT INTERRUPTER		W	WIRE(S)
H	HOT		XFMR	TRANSFORMER
HP	HORSEPOWER			
KVA	KILOVOLT-AMPERES			
KW	KILOWATTS			

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James Posey Associates
Engineering Your Vision

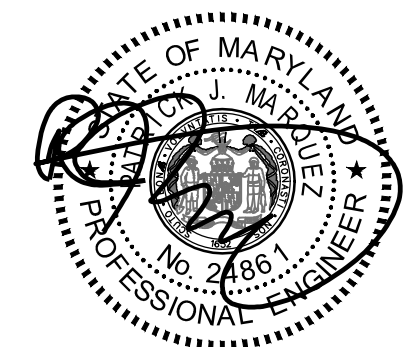
Mechanical & Electrical Consulting Engineers
11155 Red Run Boulevard, Suite 310
Baltimore, Maryland 21117
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jamesposey.com

Tag	Description	Date
	BID SET	04/10/24

PSC No	
Scale	AS NOTED
Project No	7905-23
Date	APRIL 10, 2024

Drawing Title
SYMBOLS LIST, ABBREVIATIONS, DETAILS AND DIAGRAMS

Sheet No:
E-0



Professional Certification:
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Tag	Description	Date
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PSC No	
Scale	AS NOTED
Project No	7905-23
Date	APRIL 10, 2024
Drawing Title	PART FIRST FLOOR PLAN - AREA A - DEMOLITION
Sheet No:	E-1

SPECIFIC NOTES (ARCHITECTURAL):

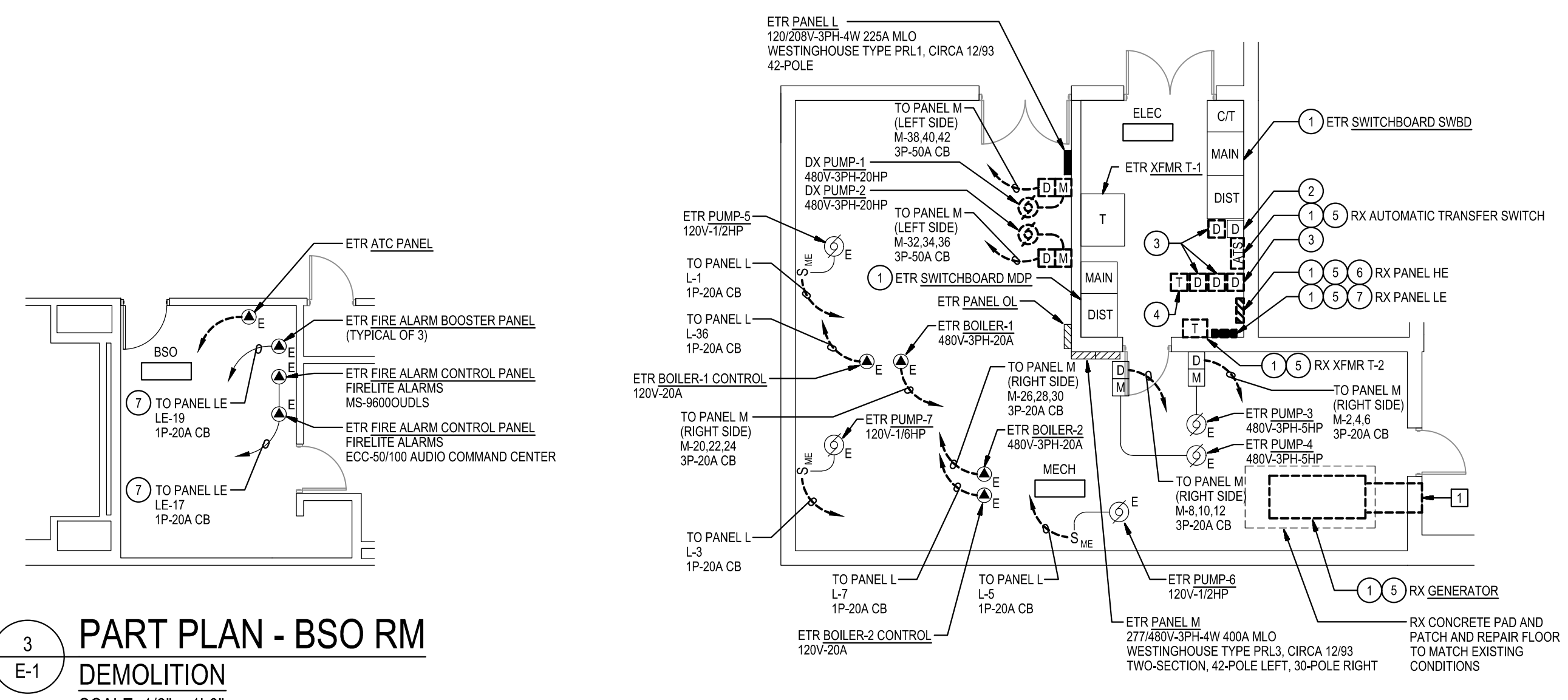
- 1 INFILL EXISTING OPENING IN BRICK / CMU EXTERIOR WALL AT DEMOLISHED GENERATOR INTAKE / EXHAUST. PRIME AND PAINT BRICK / CMU WALL. PAINT WALL SURFACE TO MATCH NATURAL BREAK LINES (OUTSIDE OR INSIDE CORNER) TO MATCH EXISTING ADJACENT SURFACE. SEE DETAIL 916-A.

GENERAL NOTES:

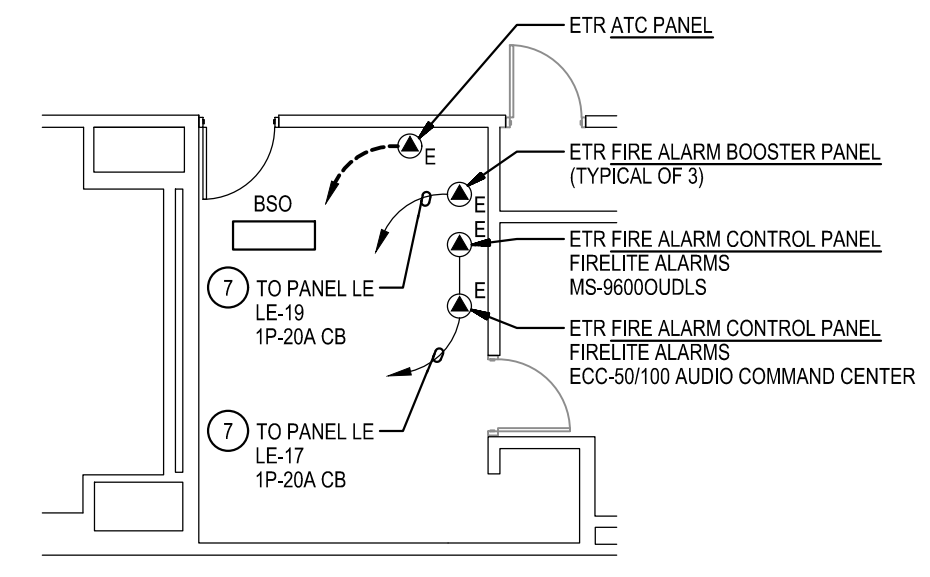
- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. THE EXISTING FACILITY SHALL REMAIN IN OPERATION DURING RENOVATION. INTERRUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION. INTERRUPTION OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORKING HOURS.
- C. REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
- D. CONSTRUCTION SHALL BE PERFORMED IN PHASES. AVOID INTERRUPTION TO ANY SERVICES. GENERATOR POWER DISTRIBUTION SYSTEM SHALL BE OPERATIONAL AT ALL TIMES WHEN SCHOOL IS IN SESSION.
- E. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED _____ SHALL BE REMOVED AND ELECTRICAL ITEMS SHOWN LIGHT SOLID _____ SHALL REMAIN.
- F. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- G. WHERE EQUIPMENT IS NOTED "DISCONNECT" OR "REMOVE", REMOVE ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE, UNLESS OTHERWISE NOTED.
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- I. EXISTING CIRCUITS INTERRUPTED BY DEMOLITION, BUT ARE TO REMAIN, SHALL BE MADE CONTINUOUS.
- J. WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, PROVIDE WIRE AND CONDUIT TO NEW LOCATION AS REQUIRED.
- K. IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR DEVICES REMOVED.

SPECIFIC NOTES:

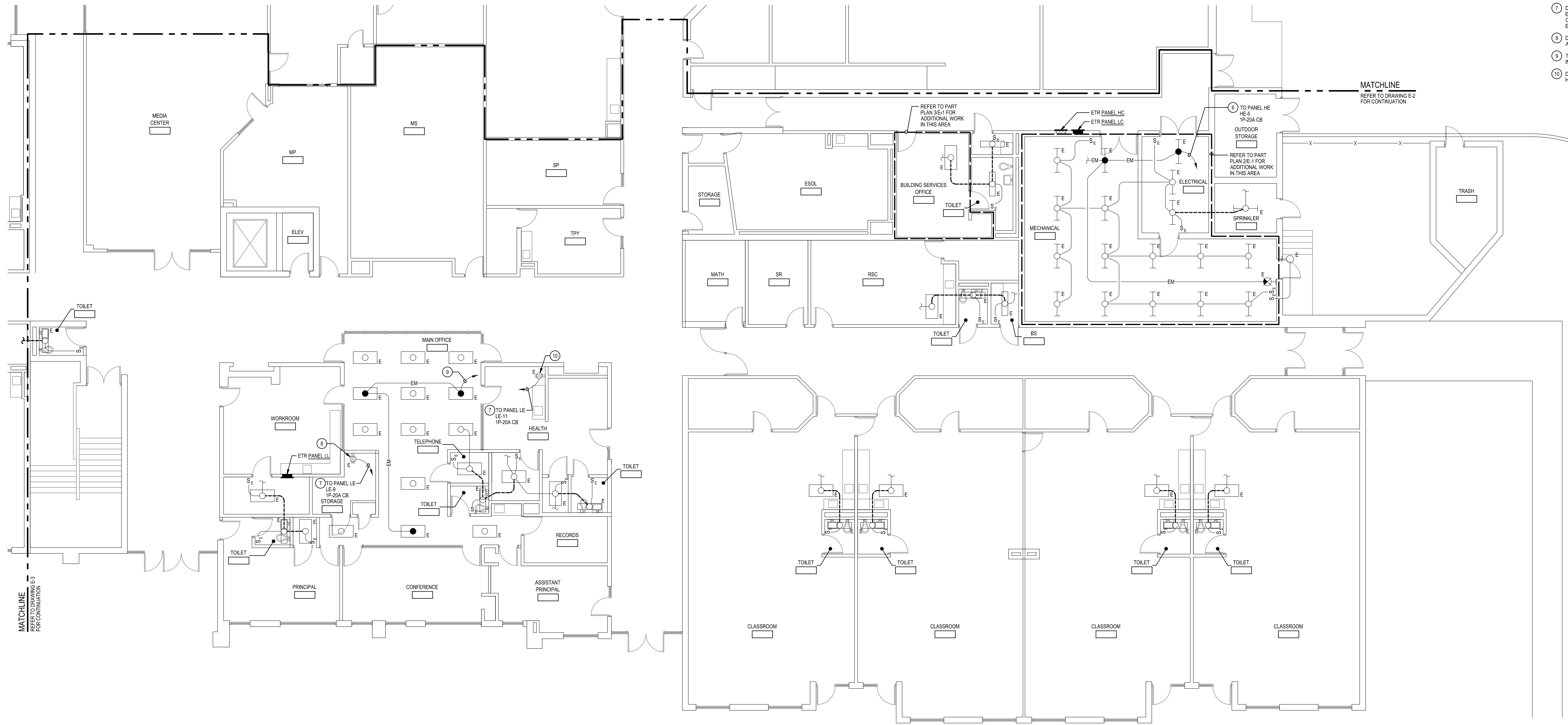
- 1 REFER TO PART RISER DIAGRAM ON DRAWING E-9 FOR ADDITIONAL INFORMATION.
- 2 ETR FUSED 80A ENCLOSED SWITCH, LABELED GYM SERVICE DISCONNECT.
- 3 RX FUSED DISCONNECT SWITCH AS INDICATED.
- 4 RX TRANSFORMER T-3.
- 5 MAINTAIN OPERATION OF EXISTING GENERATOR AND ASSOCIATED GENERATOR EQUIPMENT UNTIL THE NEW GENERATOR, NEW GENERATOR EQUIPMENT, AND ASSOCIATED FEEDERS AND BRANCH CIRCUITS ARE INSTALLED AND EXISTING FEEDERS AND BRANCH CIRCUITS ARE READY TO BE RECONNECTED TO NEW GENERATOR EQUIPMENT.
- 6 DISCONNECT EXISTING BRANCH CIRCUITS FROM CIRCUIT BREAKERS. EXISTING EMERGENCY LIGHTING CIRCUITS SHALL REMAIN. REMOVE INTERIOR COMPONENTS (BUSBAR, CIRCUIT BREAKERS) OF EXISTING PANEL HE. ENCLOSURE OF EXISTING PANEL HE SHALL REMAIN AND BECOME A PULLBOX.
- 7 DISCONNECT EXISTING BRANCH CIRCUITS FROM CIRCUIT BREAKERS. EXISTING STAND-BY POWER CIRCUITS SHALL REMAIN. REMOVE INTERIOR COMPONENTS (BUSBAR, CIRCUIT BREAKERS) OF EXISTING PANEL LE. ENCLOSURE OF EXISTING PANEL LE SHALL REMAIN AND BECOME A PULLBOX.
- 8 DUPLEX RECEPTACLE AS NOTED IS CURRENTLY SERVING INTERCOM / PUBLIC ADDRESS SYSTEM CONSOLE / RACK IN MAIN OFFICE AREA.
- 9 TO PANEL HE, CIRCUIT HE-5. REFER TO SPECIFIC NOTE 6E-1 FOR ADDITIONAL INFORMATION.
- 10 DUPLEX RECEPTACLE AS NOTED IS CURRENTLY SERVING REFRIGERATOR IN HEALTH SUITE.



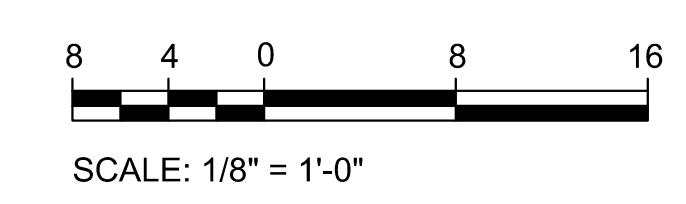
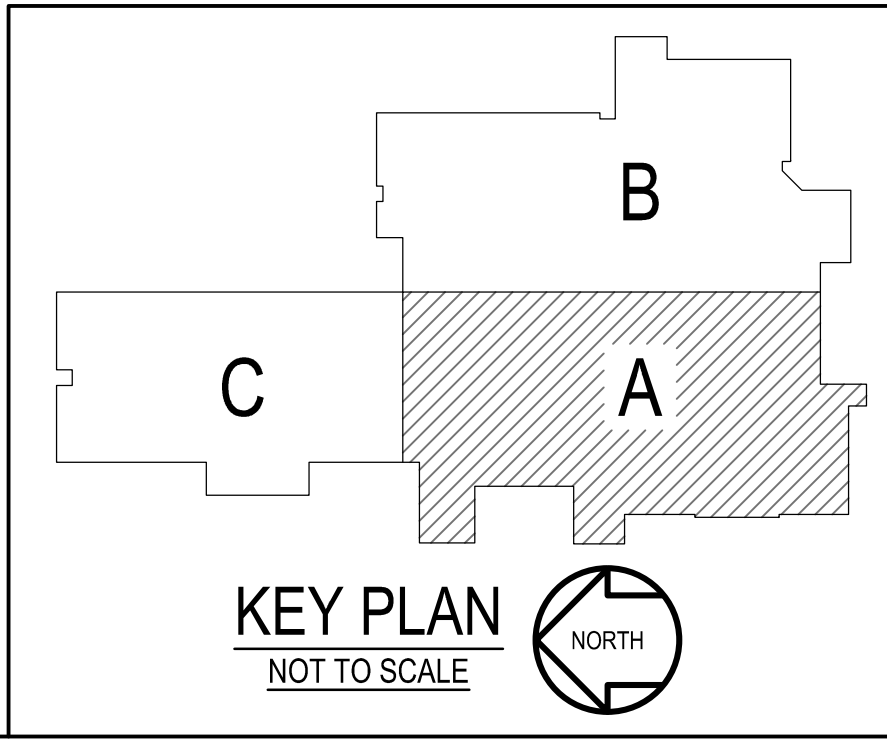
2 PART PLAN - MECH & ELEC RMS DEMOLITION
 SCALE: 1/8" = 1'-0"



3 PART PLAN - BSO RM DEMOLITION
 SCALE: 1/8" = 1'-0"



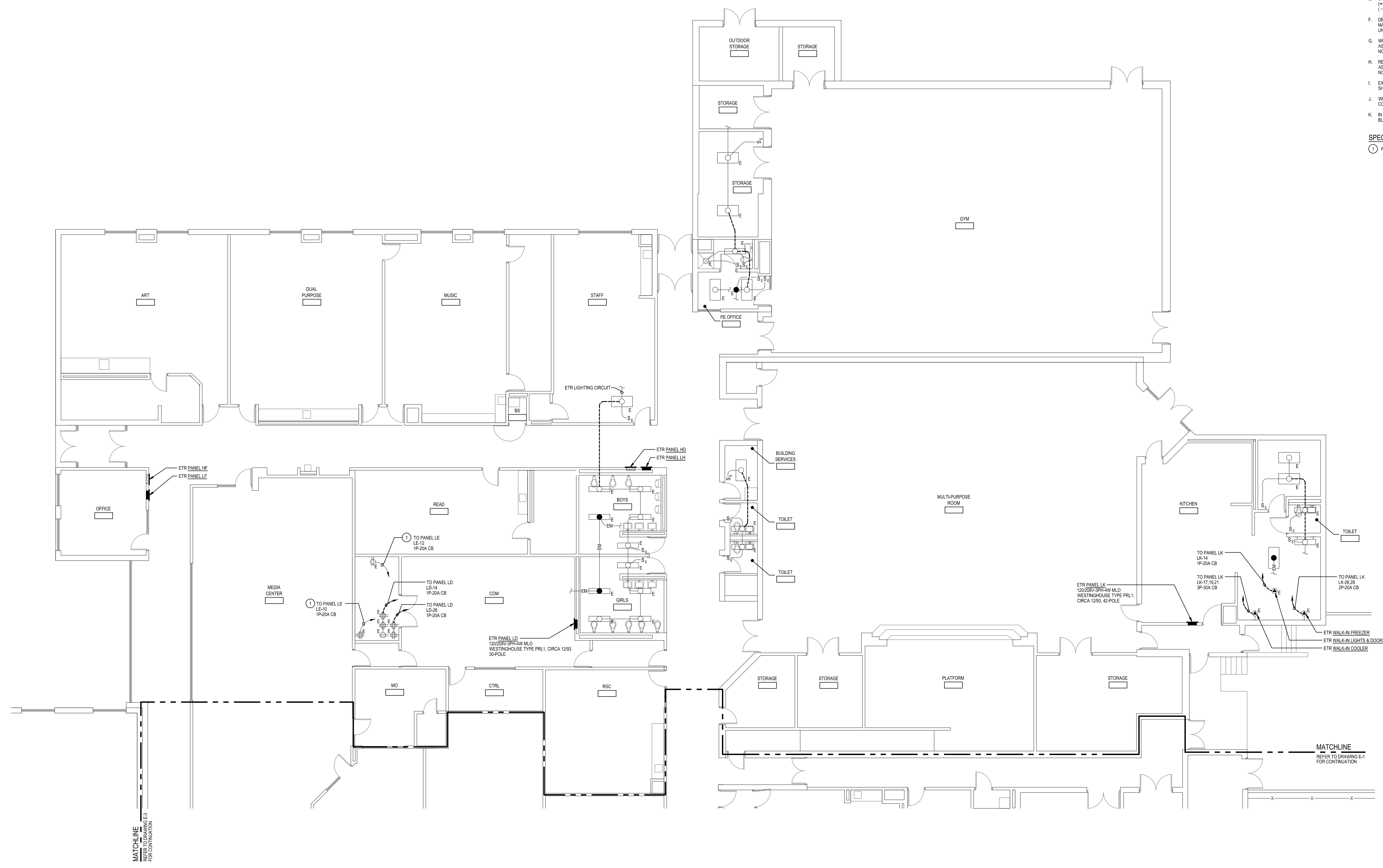
1 PART FIRST FLOOR PLAN - AREA A DEMOLITION
 SCALE: 1/8" = 1'-0"



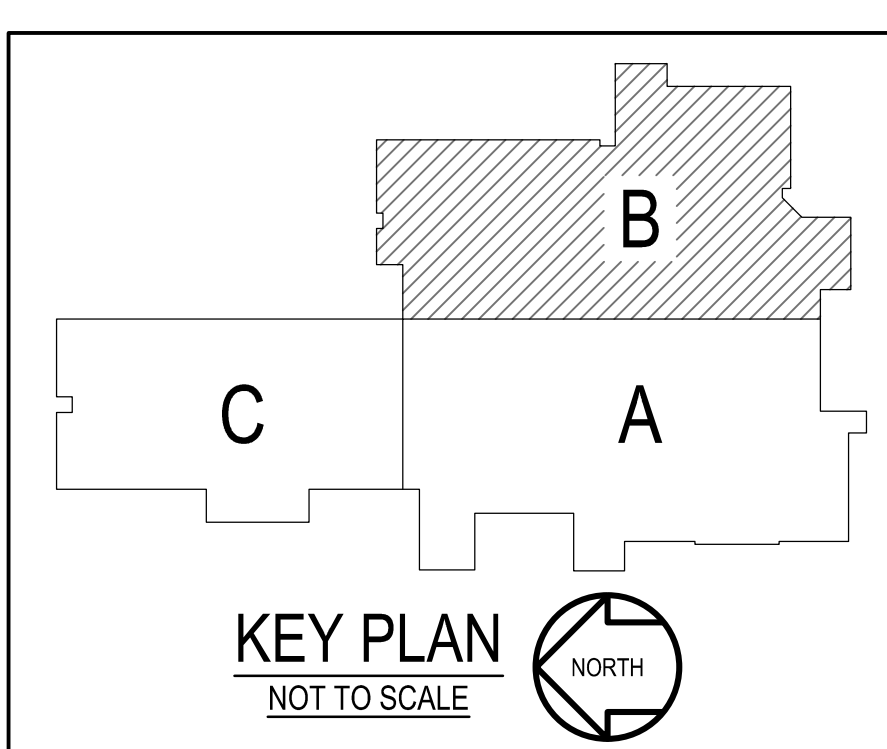
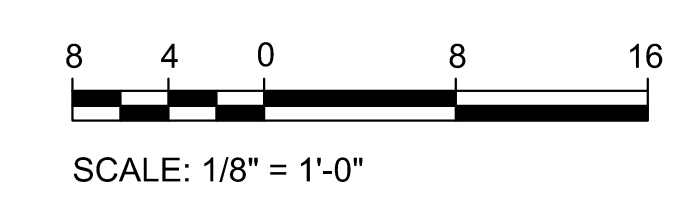
GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT
DR. SALLY K. RIDE ELEMENTARY SCHOOL
 21301 SENECA CROSSING DRIVE
 GERMANTOWN, MD 20876
 MONTGOMERY COUNTY PUBLIC SCHOOLS

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- SPECIFIC NOTES:**
- REFER TO SPECIFIC NOTE 7/E-1 FOR ADDITIONAL INFORMATION.



1
E-2
PART FIRST FLOOR PLAN - AREA B
DEMOLITION
 SCALE: 1/8" = 1'-0"



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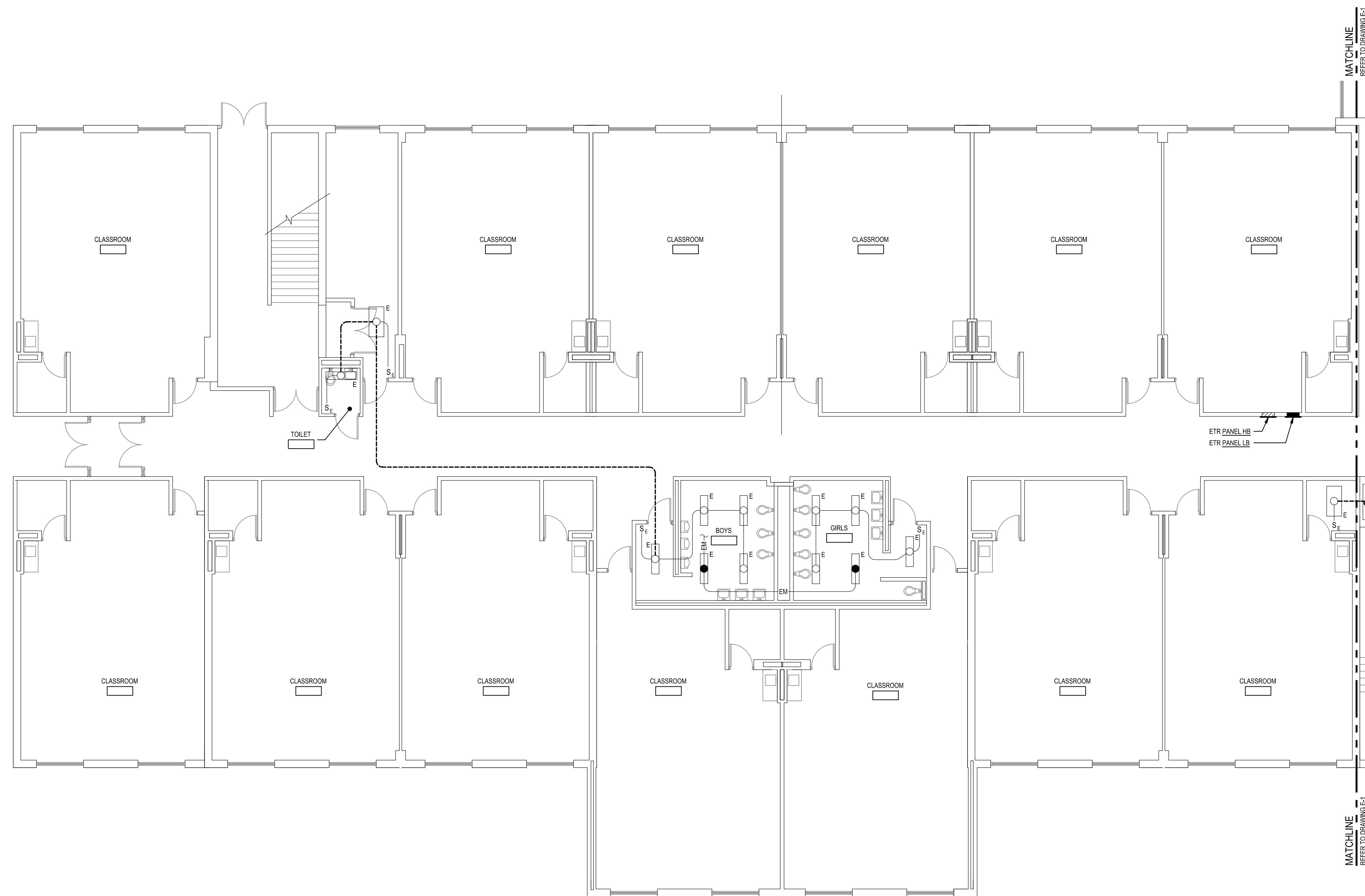
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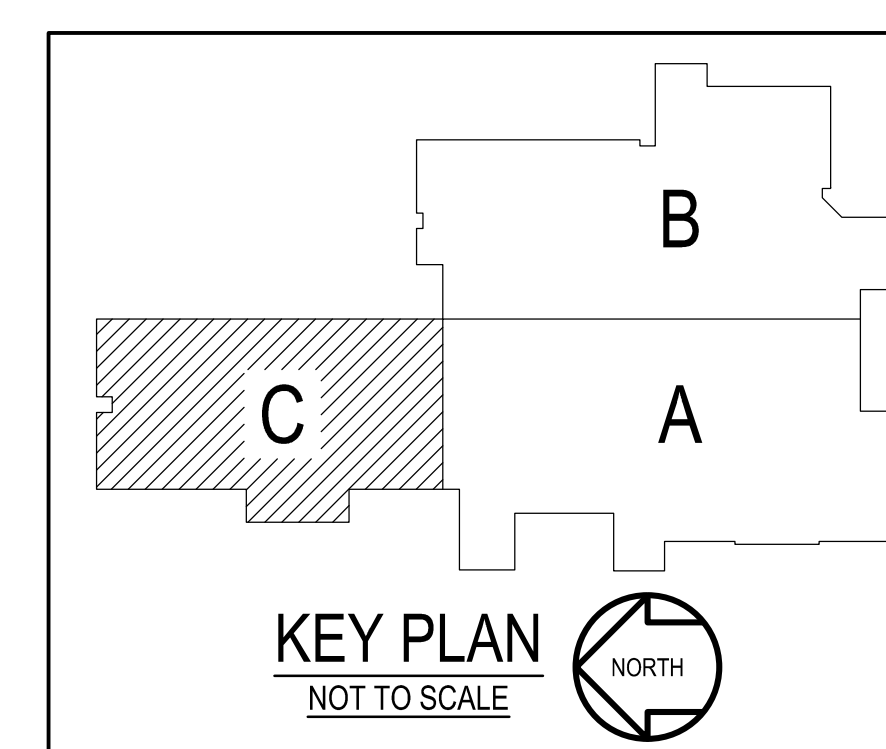
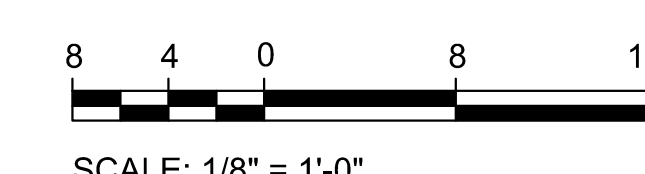
PSC No	
Scale	AS NOTED
Project No	7905-23
Date	APRIL 10, 2024
Drawing Title	PART FIRST FLOOR PLAN - AREA B - DEMOLITION
Sheet No:	E-2

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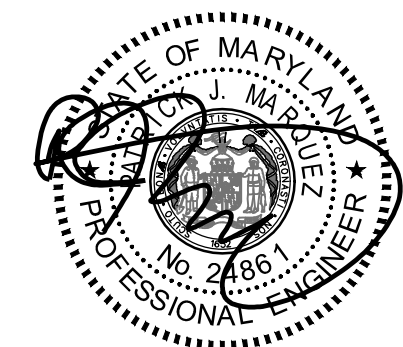
1
E-3
PART FIRST FLOOR PLAN - AREA C
DEMOLITION
SCALE: 1/8" = 1'-0"



GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT

DR. SALLY K. RIDE ELEMENTARY SCHOOL
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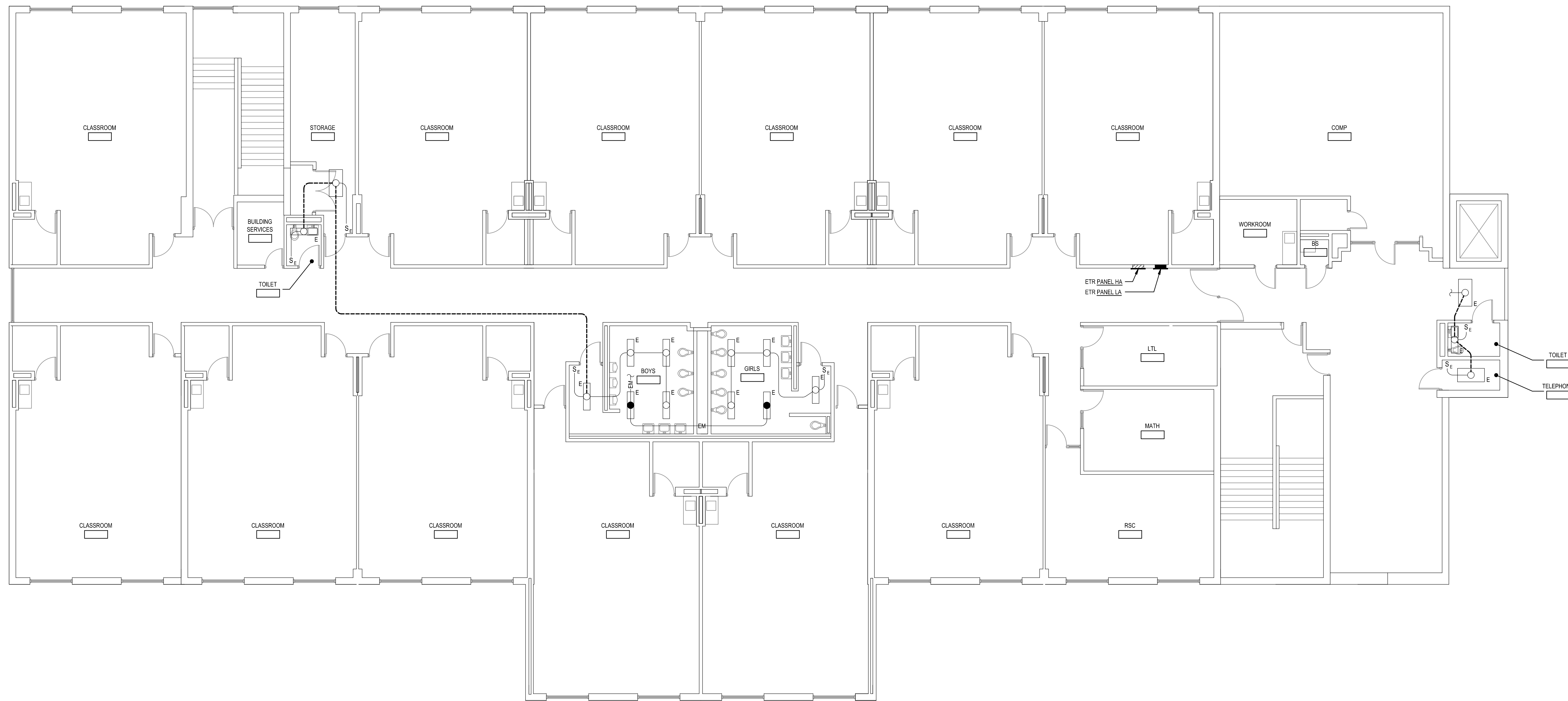
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Scale	AS NOTED
Project No	7905-23
Date	APRIL 10, 2024

Drawing Title
PART FIRST FLOOR PLAN - AREA C - DEMOLITION

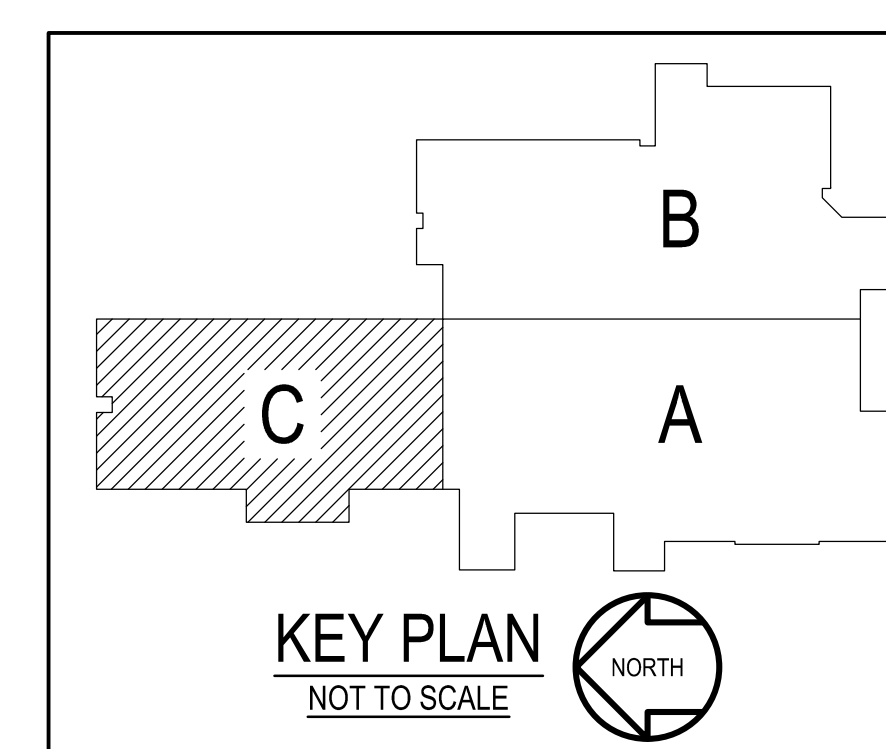
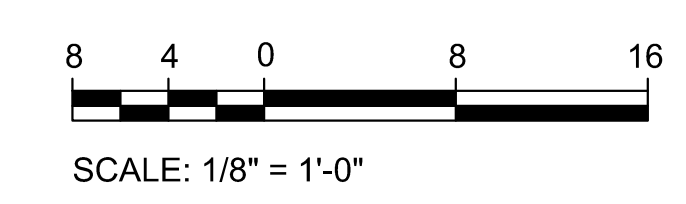
Sheet No:
E-3

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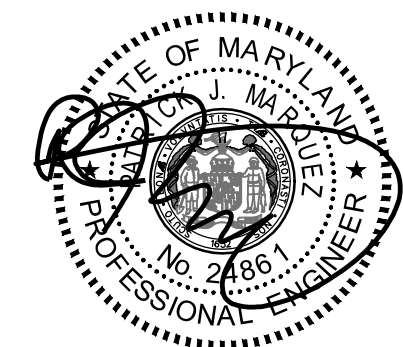
1
E-4
SECOND FLOOR PLAN - AREA C
DEMOLITION
SCALE: 1/8" = 1'-0"



GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT

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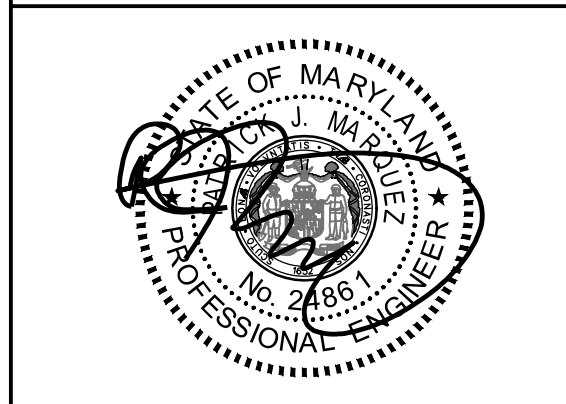
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Drawing Title	SECOND FLOOR PLAN - AREA C - DEMOLITION

Sheet No:
E-4



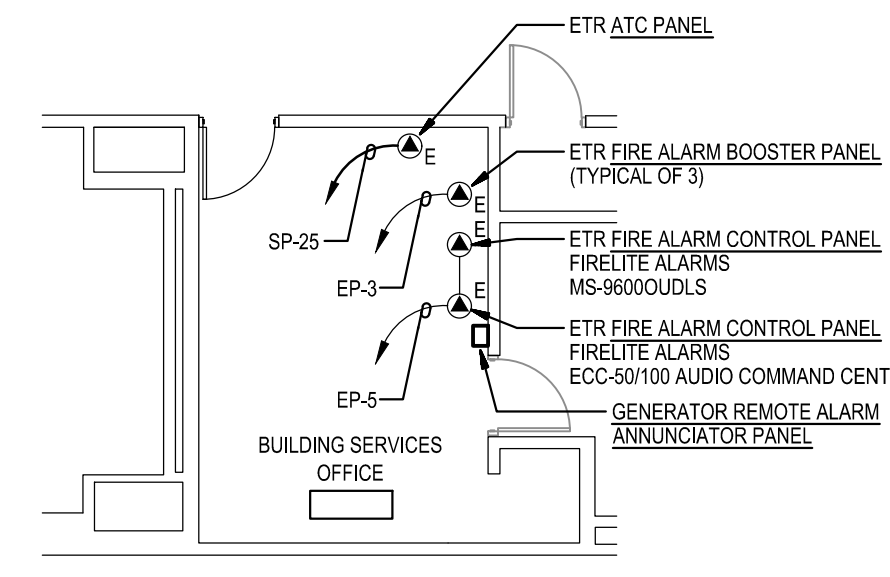
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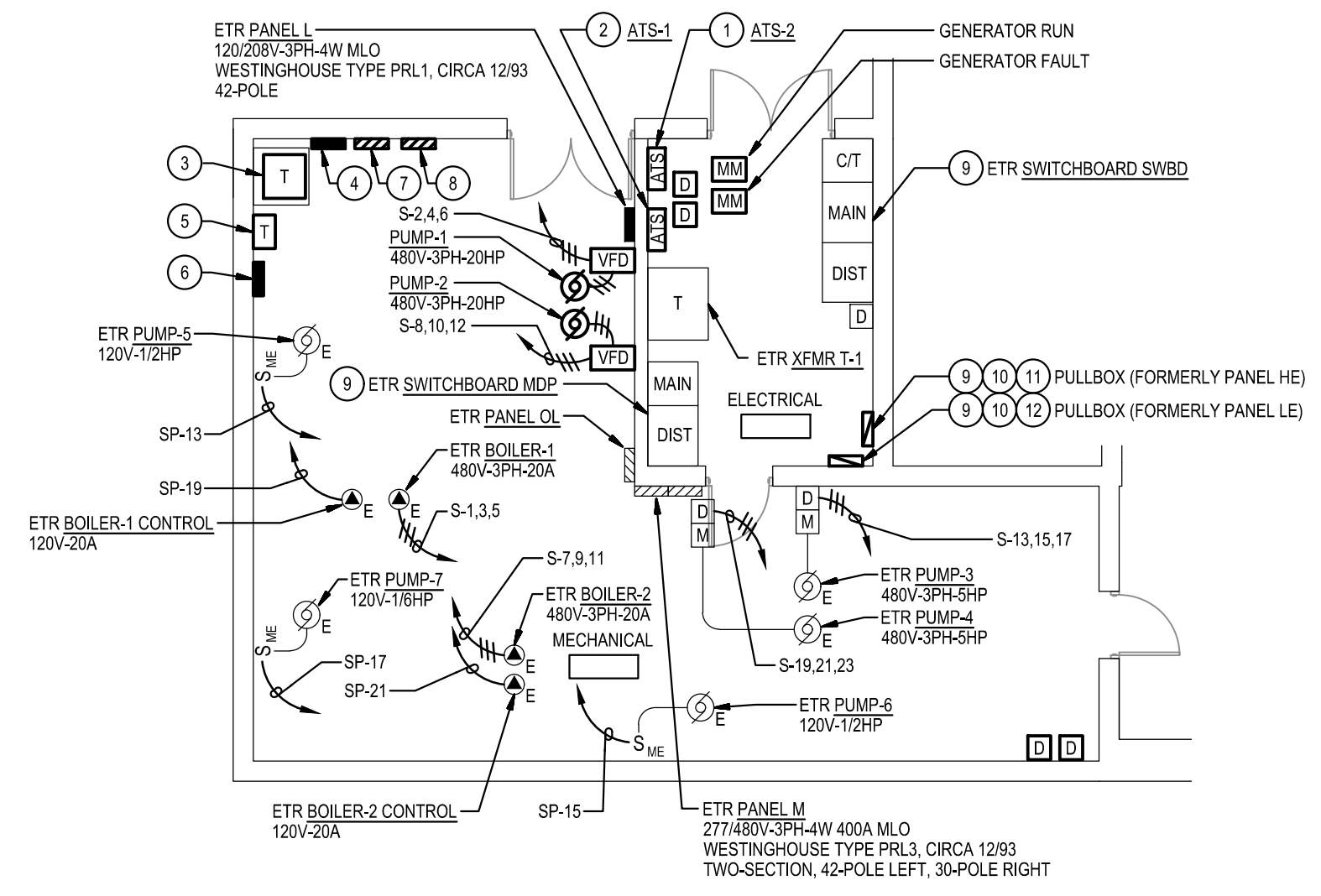
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PSC No	
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Date	APRIL 10, 2024
Drawing Title	PART FIRST FLOOR PLAN - AREA A - NEW WORK
Sheet No:	E-5

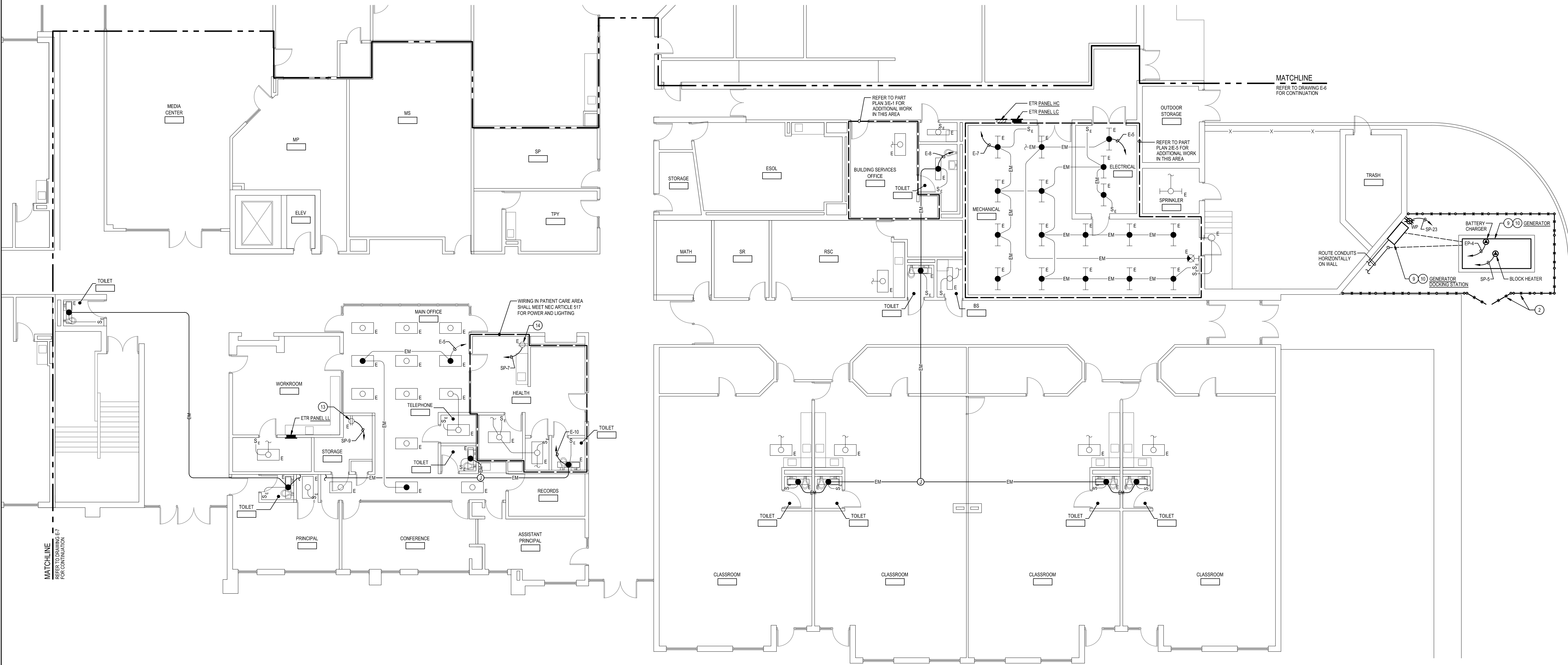
- SPECIFIC NOTES:**
- RECONNECT EXISTING FIRE DETECTION AND ALARM SYSTEM MONITORING MODULES FOR "GENERATOR RUM" AND "GENERATOR FAULT" TO GENERATOR AT ATS-1. EXTEND EXISTING FIRE ALARM WIRING IN CLOSET AND MAKE CONNECTIONS NECESSARY FOR COMPLETE INSTALLATION. REPROGRAM FIRE ALARM CONTROL PANEL AS REQUIRED.
 - PROVIDE CHAIN LINK FENCE WITH 4" WIDE GATE AS INDICATED. MAINTAIN MINIMUM 3'-0" CLEARANCE AROUND GENERATOR AND IN FRONT OF ELECTRICAL EQUIPMENT.
 - TRANSFORMER TSP
 - PANEL SP
 - TRANSFORMER TSP
 - PANEL EP
 - PANEL S
 - PANEL E
 - PANEL M
 - REFER TO PART RISER DIAGRAM ON DRAWING E-9 FOR ADDITIONAL INFORMATION.
 - MAINTAIN OPERATION OF EXISTING GENERATOR AND ASSOCIATED GENERATOR EQUIPMENT UNTIL THE NEW GENERATOR, NEW GENERATOR EQUIPMENT AND ASSOCIATED FEEDERS AND BRANCH CIRCUITS ARE INSTALLED AND EXISTING FEEDERS AND BRANCH CIRCUITS ARE READY TO BE RECONNECTED TO NEW GENERATOR EQUIPMENT.
 - UTILIZE PANELBOARD ENCLOSURE AS A PULLBOX TO INTERCEPT AND SPLICE EXISTING EMERGENCY LIGHTING CIRCUITS. REFER TO SPECIFIC NOTE 8 ON DRAWING E-1 FOR ADDITIONAL INFORMATION.
 - UTILIZE PANELBOARD ENCLOSURE AS A PULLBOX TO INTERCEPT AND SPLICE EXISTING STANDBY CIRCUITS. REFER TO SPECIFIC NOTE 7 ON DRAWING E-1 FOR ADDITIONAL INFORMATION.
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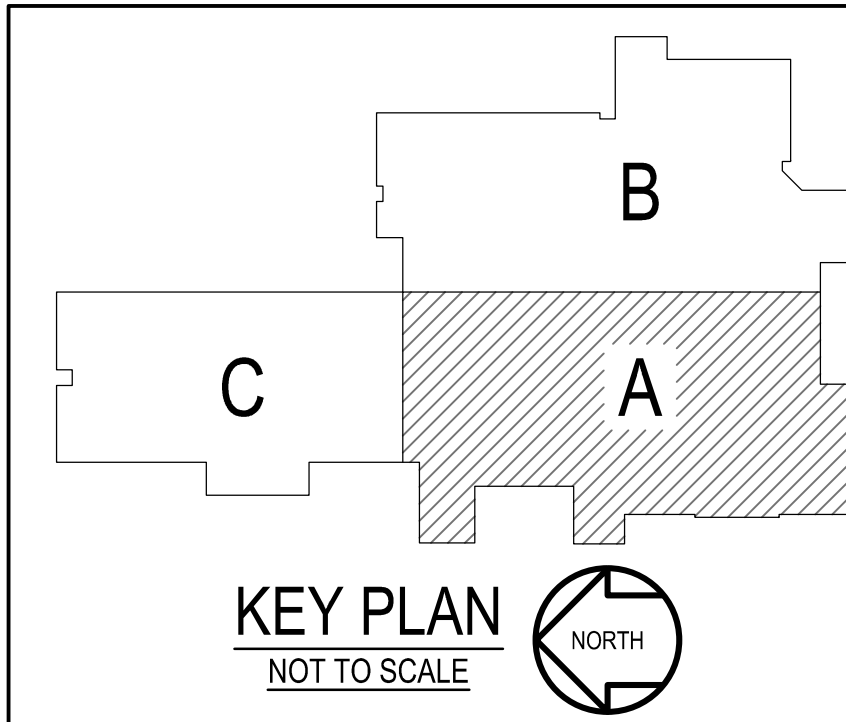
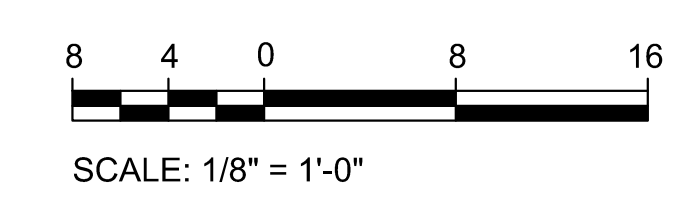
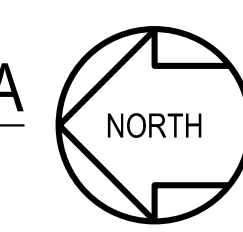
3 PART PLAN - BSO RM
 NEW WORK
 SCALE: 1/8" = 1'-0"



2 PART PLAN - MECH & ELEC RMS
 NEW WORK
 SCALE: 1/8" = 1'-0"

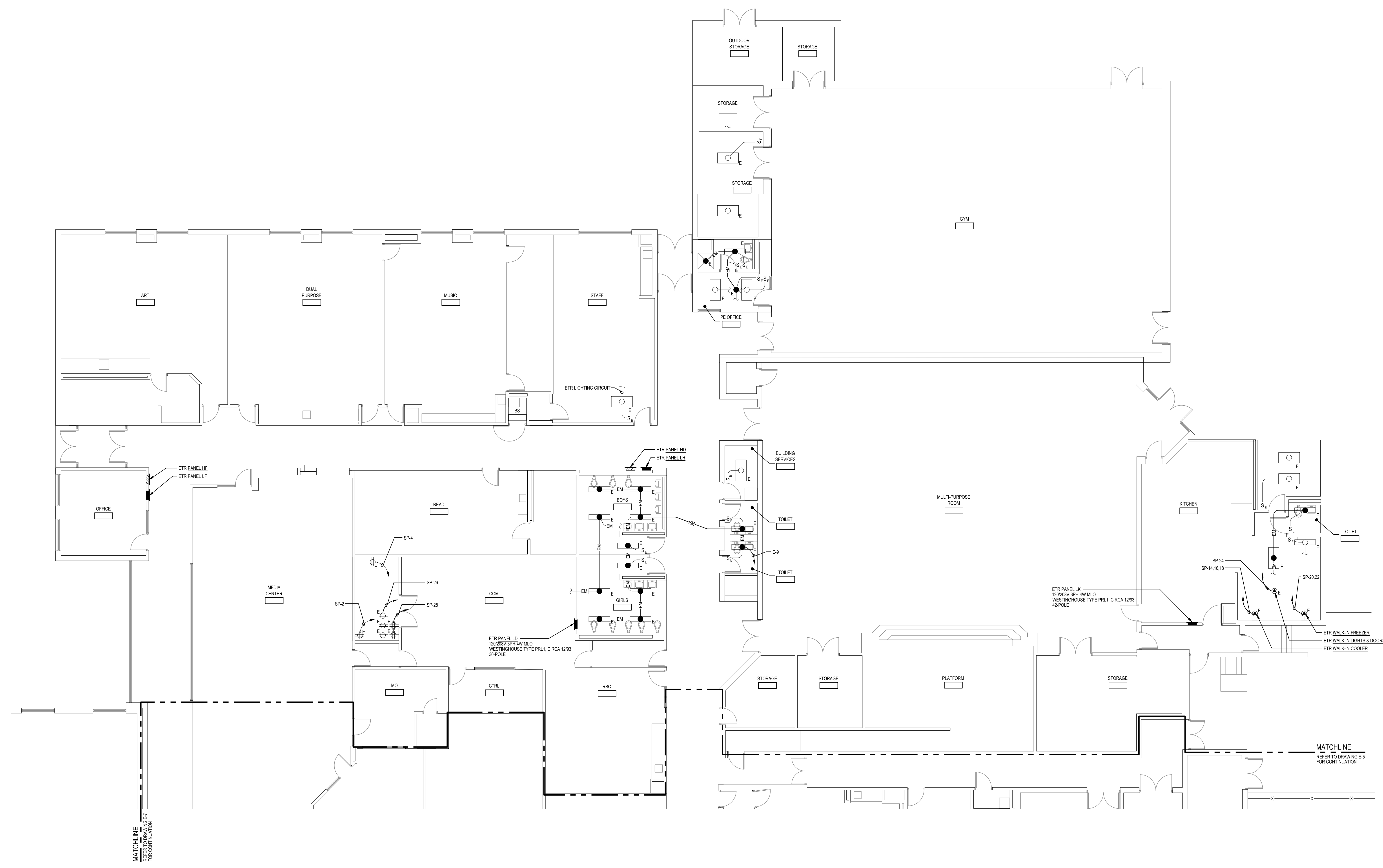


1 PART FIRST FLOOR PLAN - AREA A
 NEW WORK
 SCALE: 1/8" = 1'-0"

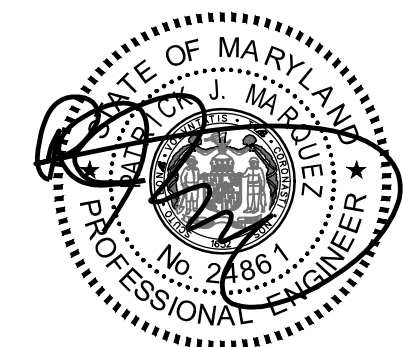


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GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT
DR. SALLY K. RIDE ELEMENTARY SCHOOL
 21301 SENECA CROSSING DRIVE
 GERMANTOWN, MD 20876
 MONTGOMERY COUNTY PUBLIC SCHOOLS



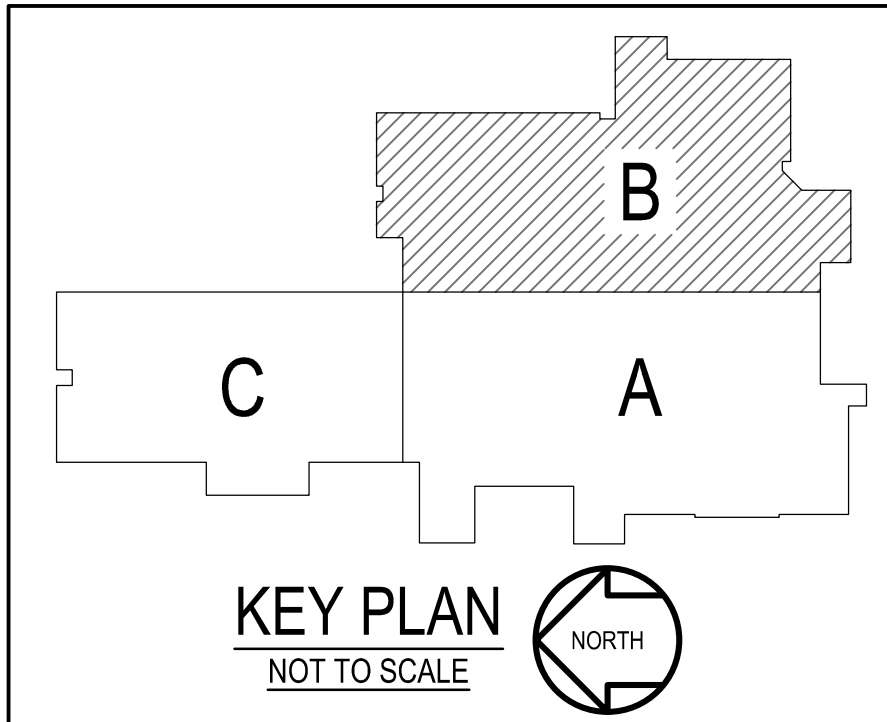
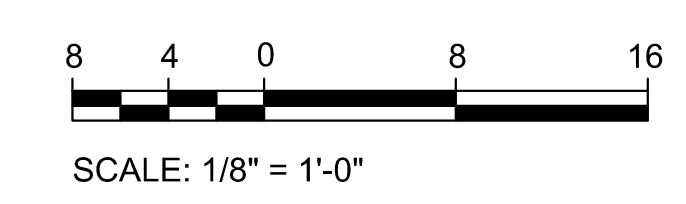
Professional Certification.
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland. License No. 24661. Expiration date: 02-24-2026.

James Posey Associates
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 11155 Red Run Boulevard, Suite 310
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Tag	Description	Date
	BID SET	04/10/24

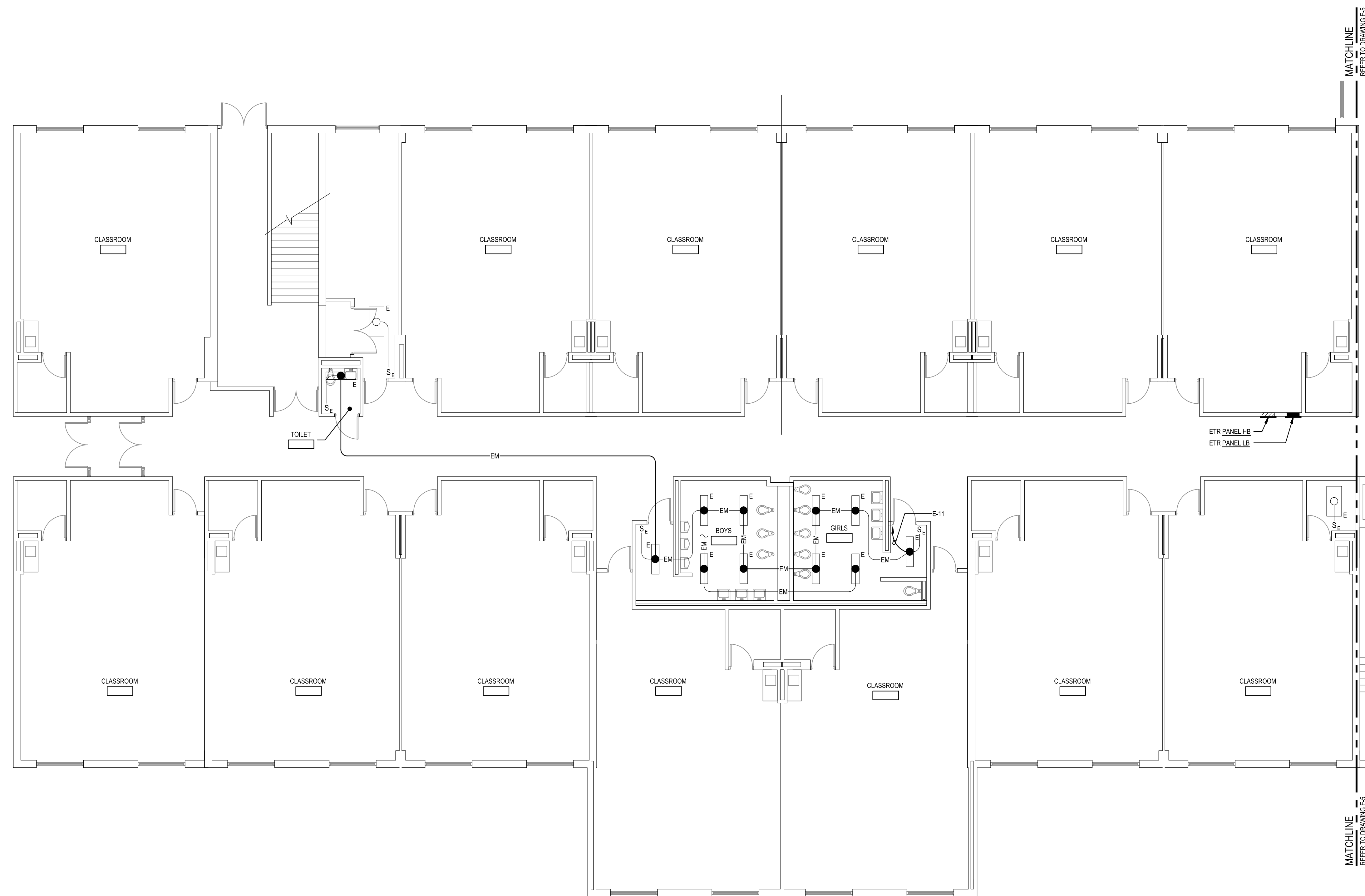
1 **PART FIRST FLOOR PLAN - AREA B**
 NEW WORK
 SCALE: 1/8" = 1'-0"



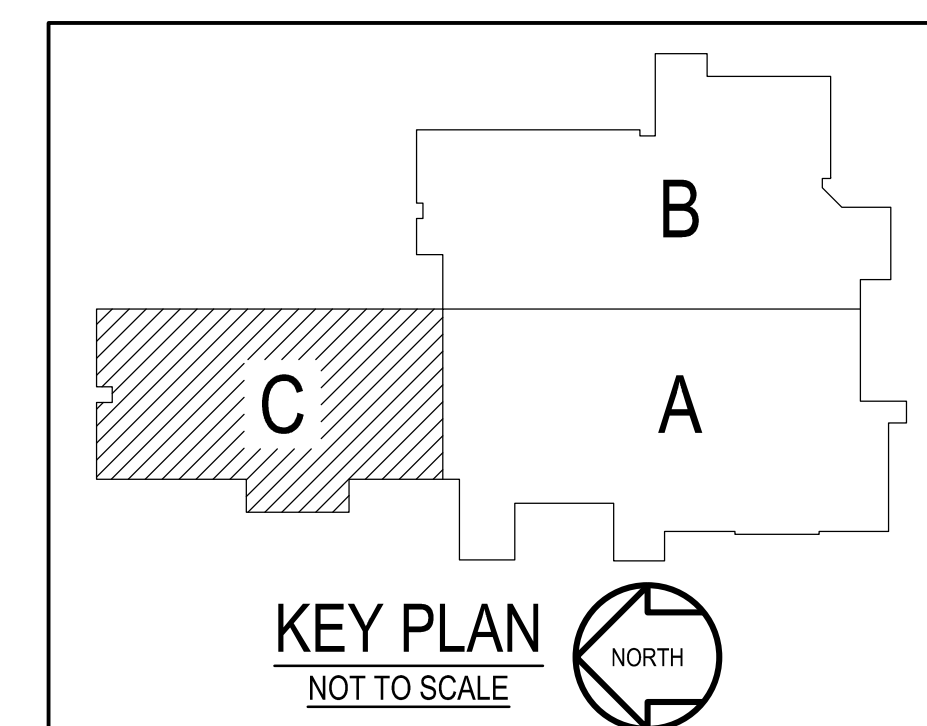
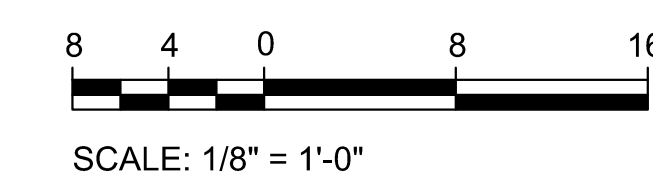
PSC No	
Scale	AS NOTED
Project No	7905-23
Date	APRIL 10, 2024
Drawing Title	PART FIRST FLOOR PLAN - AREA B - NEW WORK
Sheet No:	E-6

GENERAL NOTES:

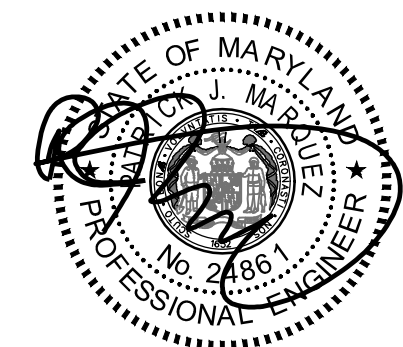
- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN FACT, OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. THE EXISTING FACILITY SHALL REMAIN IN OPERATION DURING RENOVATION. INTERRUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION. INTERRUPTION OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORKING HOURS.
- C. REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
- D. CONSTRUCTION SHALL BE PERFORMED IN PHASES. AVOID INTERRUPTION TO ANY SERVICES. GENERATOR POWER DISTRIBUTION SYSTEM SHALL BE OPERATIONAL AT ALL TIMES WHEN SCHOOL IS IN SESSION.



1
E-7
PART FIRST FLOOR PLAN - AREA C
NEW WORK
SCALE: 1/8" = 1'-0"



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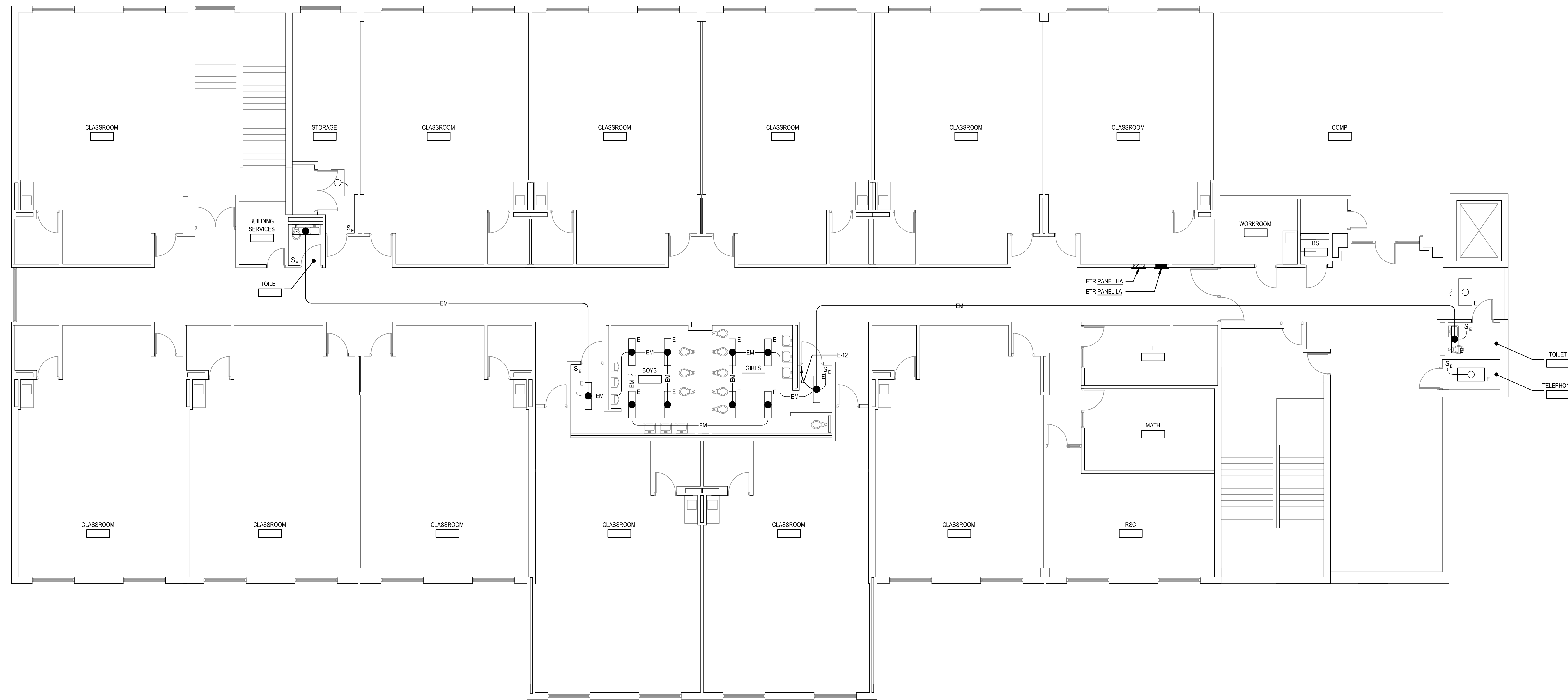
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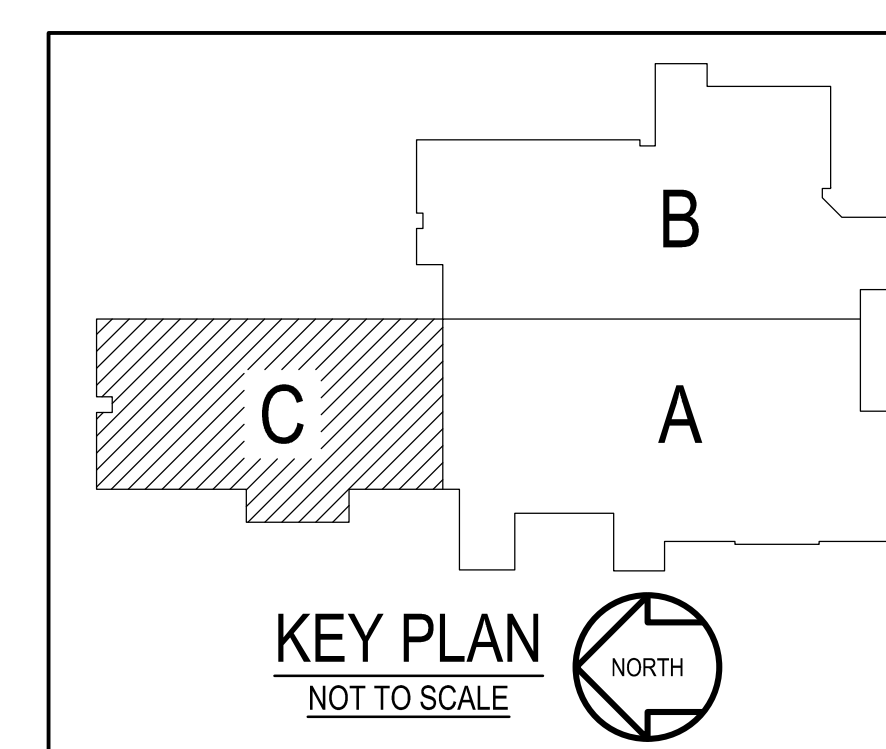
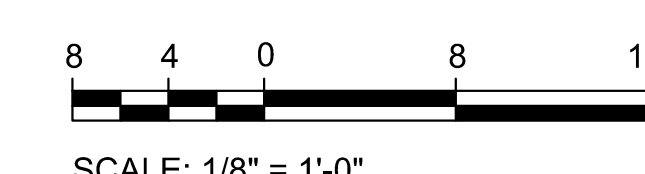
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Drawing Title	PART FIRST FLOOR PLAN - AREA C - NEW WORK
Sheet No:	E-7

GENERAL NOTES:

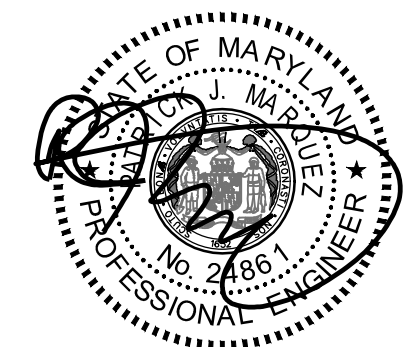
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- B. THE EXISTING FACILITY SHALL REMAIN IN OPERATION DURING RENOVATION. INTERRUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION. INTERRUPTION OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORKING HOURS.
- C. REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
- D. CONSTRUCTION SHALL BE PERFORMED IN PHASES. AVOID INTERRUPTION TO ANY SERVICES. GENERATOR POWER DISTRIBUTION SYSTEM SHALL BE OPERATIONAL AT ALL TIMES WHEN SCHOOL IS IN SESSION.



1
E-8
SECOND FLOOR PLAN - AREA C
NEW WORK
SCALE: 1/8" = 1'-0"



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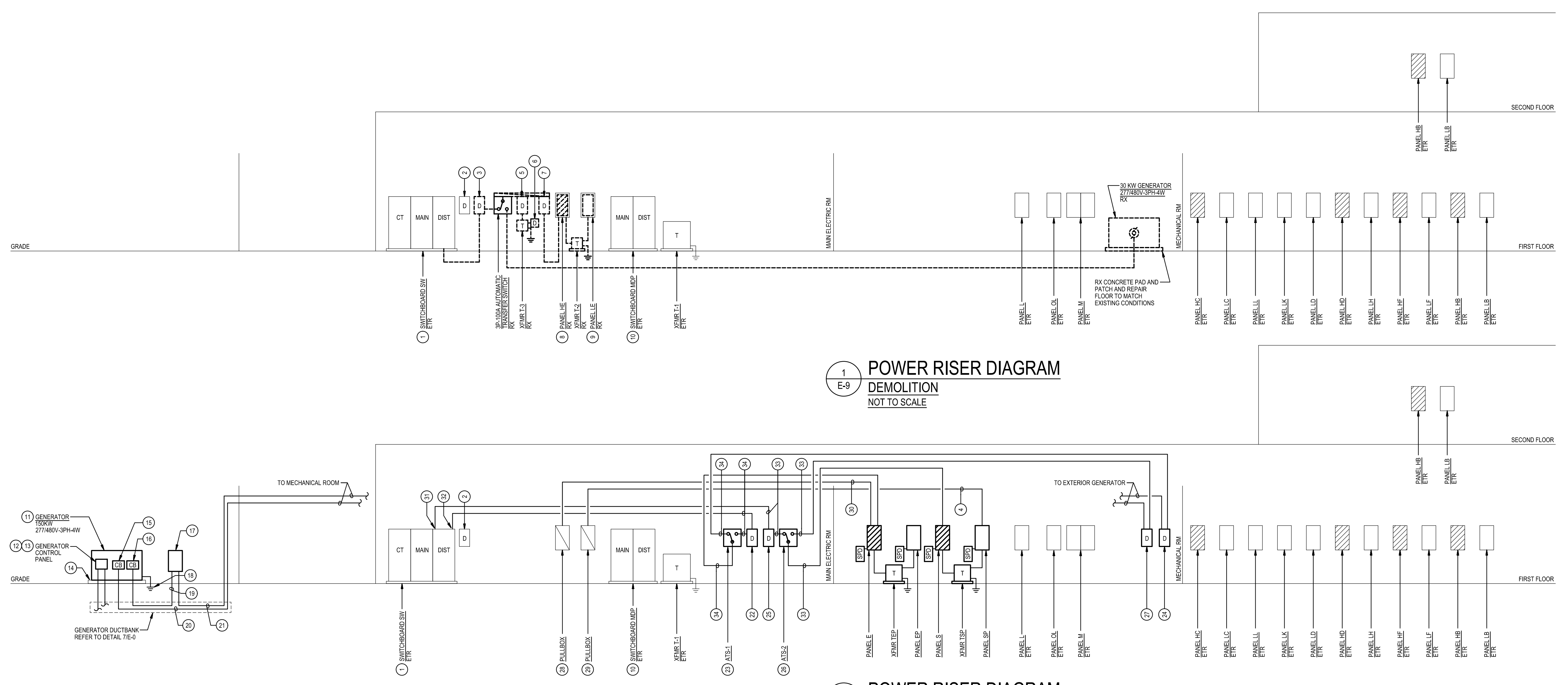
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Sheet No:
E-8



1 POWER RISER DIAGRAM
DEMOLITION
 NOT TO SCALE

2 POWER RISER DIAGRAM
NEW WORK
 NOT TO SCALE

SCHEDULE OF TRANSFORMERS						
TRANSFORMER DESIG.	KVA	LOCATION	PRIMARY FEEDER	SECONDARY TAP WIRING & CONDUIT (NOTE A)	GROUNDING ELECTRODE CONDUCTOR	EQUIPMENT SERVED
TEP	9	MECHANICAL ROOM	E-26,28,30	4 #10 + #8G - 3/4"	#8	PANEL EP
TSP	30	MECHANICAL ROOM	SP-26,28,30	4 #3 + #8G - 1 1/2"	#8	PANEL SP

TRANSFORMER GENERAL NOTES:
 A. TRANSFORMER SECONDARY TAP: CONDUCTORS INDICATED REFLECT PHASE, NEUTRAL (IN WYE CONFIGURATION), AND SUPPLY-SIDE BONDING JUMPER (SSBJ) IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC) ARTICLES 450, 240.21, AND 250.30.
 B. TRANSFORMER SHALL HAVE 480-VOLT, 3-PHASE, DELTA PRIMARY AND 120/208-VOLT, 3-PHASE, WYE SECONDARY.

TRANSFORMER SPECIFIC NOTES:
 1. PROVIDE ON 4" HIGH HOUSEKEEPING PAD.

WIRING SCHEDULE: PANEL E															
277 / 480 VOLTS				3 PHASE 4 WIRE				100 AMP BUS				SURFACE MOUNTED			
CR. CLUT.	POLE	DESCRIPTION	WIRE/CONDUIT	BREAKER	POLE AMP	AØ	BØ	CØ	CR. CLUT.	POLE	DESCRIPTION	WIRE/CONDUIT	BREAKER	POLE AMP	
1	1	LTG - EXIT B WING	NOTE (2)	1	20	1.6	1.6		2	2	LTG - EXIT C WING	NOTE (2)	1	20	
3	3	LTG - EMERGENCY B WING	NOTE (2)	1	20		1.6	1.6	4	4	LTG - EMERGENCY C WING	NOTE (2)	1	20	
5	5	LTG - EXIT A WING	NOTE (2)	1	20			1.6	6	6	LTG - EMERGENCY C WING	NOTE (2)	1	20	
7	7	LTG - EM MECH & ELEC RMS	#12-3/4"	1	20	1.0	0.2		8	8	LTG - WING A RESTROOMS	#12-3/4"	1	20	
9	9	LTG - WING B RESTROOMS	#12-3/4"	1	20		0.6	0.1	10	10	LTG - WING A RESTROOMS	#12-3/4"	1	20	
11	11	LTG - 1ST WING C RESTROOMS	#12-3/4"	1	20			0.5	12	12	LTG - 2ND WING C RESTROOMS	#12-3/4"	1	20	
13	13	SPARE	1	20					14	14	SPARE	1	20		
15	15	SPARE	1	20					16	16	SPARE	1	20		
17	17	SPARE	1	20					18	18	SPARE	1	20		
19	19	SPACE & PROVISIONS	--	1	--	--	--	--	20	20	SPACE & PROVISIONS	--	1	--	
21	21	SPACE & PROVISIONS	--	1	--	--	--	--	22	22	SPACE & PROVISIONS	--	1	--	
23	23	SPACE & PROVISIONS	--	1	--	--	--	--	24	24	SPACE & PROVISIONS	--	1	--	
25	25	EXTERNAL SURGE	4#8+ #8G- 3/4"	3	30	--	0.0	--	26	26	PANEL EP (VIA XFMR TEP)	3#10+ #10- 3/4"	3	25	
27	27	PROTECTIVE DEVICE	#8G- 3/4"			--	--	0.6	28	28	SPARE				
29	29					2.6	1.8	2.2	30	30					
						4.4	4.5	4.8							

CONNECTED LOAD = 13.7 KVA
 DEMAND LOAD = 12.6 KVA
 MIN AIC RATING = 65,000 AMPS SYMMETRICAL
 MAIN FUSE 70 AMPS
 LOCATION MECHANICAL RM

WIRING SCHEDULE: PANEL S															
277 / 480 VOLTS				3 PHASE 4 WIRE				250 AMP BUS				SURFACE MOUNTED			
CR. CLUT.	POLE	DESCRIPTION	WIRE/CONDUIT	BREAKER	POLE AMP	AØ	BØ	CØ	CR. CLUT.	POLE	DESCRIPTION	WIRE/CONDUIT	BREAKER	POLE AMP	
1	1	BOILER-1	3#12- #10G- 3/4"	3	20	0.2	7.2		2	2	PUMP-1	3#8+ #10G- 1"	3	60	
3	3						0.2	7.2	4	4					
5	5							0.2	6	6					
7	7	BOILER-2	3#12- #12G+ 3/4"	3	20	0.2	7.2		8	8	PUMP-2	3#8+ #10G- 1"	3	60	
9	9						0.2	7.2	10	10					
11	11							0.2	12	12					
13	13	PUMP-3	3#12- #12G+ 3/4"	3	20	2.0			14	14	SPARE		1	20	
15	15					2.0			16	16	SPARE		1	20	
17	17							2.0	18	18	SPARE		1	20	
19	19	PUMP-4	3#12- #12G+ 3/4"	3	20	2.0			20	20	SPARE		1	15	
21	21					2.0			22	22	SPARE		1	15	
23	23						2.0		24	24	SPARE		1	15	
25	25	EXTERNAL SURGE	4#8+ #8G- 3/4"	3	30	--	11.6	--	26	26	PANEL SP (VIA XFMR TSP)	3#8+ #10G- 1"	3	60	
27	27	PROTECTIVE DEVICE	#8G- 3/4"			--	--	8.7	28	28					
29	29					4.3	26.0	4.3	30	30					
						30.3	27.4	28.4							

CONNECTED LOAD = 86.1 KVA
 DEMAND LOAD = 45.0 KVA
 MIN AIC RATING = 65,000 AMPS SYMMETRICAL
 MAIN BREAKER 150 AMPS
 LOCATION MECHANICAL RM

WIRING SCHEDULE: PANEL EP															
120 / 208 VOLTS				3 PHASE 4 WIRE				100 AMP BUS				SURFACE MOUNTED			
CR. CLUT.	POLE	DESCRIPTION	WIRE/CONDUIT	BREAKER	POLE AMP	AØ	BØ	CØ	CR. CLUT.	POLE	DESCRIPTION	WIRE/CONDUIT	BREAKER	POLE AMP	
1	1	SPARE	#12-3/4"	1	20				2	2	SPARE		1	20	
3	3	FIRE ALARM BOOSTER PANEL	#12-3/4"	1	20		0.5	0.1	4	4	GEN BATTERY CHARGER	#12-3/4"	1	20	
5	5	FIRE ALARM CONTROL PANEL	#12-3/4"	1	20			0.5	6	6	SPARE		1	20	
7	7	SPARE	--	1	20				8	8	SPARE		1	20	
9	9	SPARE	--	1	20				10	10	SPARE		1	20	
11	11	SPARE	--	1	20				12	12	SPARE		1	20	
13	13	EXTERNAL SURGE	4#8+ #8G- 3/4"	3	30	--	--	--	14	14	SPACE & PROVISIONS	--	1	--	
15	15	PROTECTIVE DEVICE	#8G- 3/4"			--	--	--	16	16	SPACE & PROVISIONS	--	1	--	
17	17					0.0	0.0	0.5	18	18	SPACE & PROVISIONS	--	1	--	
						0.0	0.6	0.5							

CONNECTED LOAD = 1.1 KVA
 DEMAND LOAD = 1.1 KVA
 MIN AIC RATING = 10,000 AMPS SYMMETRICAL
 MAIN FUSE 40 AMPS
 LOCATION MECHANICAL RM

WIRING SCHEDULE: PANEL SP															
120 / 208 VOLTS				3 PHASE 4 WIRE				100 AMP BUS				SURFACE MOUNTED			
CR. CLUT.	POLE	DESCRIPTION	WIRE/CONDUIT	BREAKER	POLE AMP	AØ	BØ	CØ	CR. CLUT.	POLE	DESCRIPTION	WIRE/CONDUIT	BREAKER	POLE AMP	
1	1	SMOKE DAMPERS	NOTE (1)	1	20	0.4	0.2		2	2	REC - CABLE 069	NOTE (1)	1	20	
3	3	SMOKE DETECTORS	NOTE (1)	1	20		0.4	0.4	4	4	REC - TEL/COMM 069	NOTE (1)	1	20	
5	5	REC - OFFICE CONSOLE	NOTE (1)	1	20			0.8	6	6	GAS VALVE	NOTE (1)	1	20	
7	7	REC - HEALTH RM FRIDGE	NOTE (1)	1	20	0.5	1.0		8	8	STAGE SOUND SYSTEM	NOTE (1)	1	20	
9	9	REC - SECURITY INTERCOM	NOTE (1)	1	20		1.0	1.0	10	10	CHILLER SUMP HEATER	NOTE (1)	1	20	
11	11	EXHAUST FAN #10	NOTE (1)	1	20			0.6	12	12	CHILLER HEAT TAPE	NOTE (1)	1	20	
13	13	PUMP-5	#12-3/4"	1	20	1.2	2.0		14	14	WALK-IN FREEZER	3#10+ #10G- 3/4"	3	30	
15	15	PUMP-6	#12-3/4"	1	20		1.2	2.0	16	16					
17	17	PUMP-7	#12-3/4"	1	15			0.5	18	18					
19	19	BOILER-1 CONTROL	#12-3/4"	1	20	0.5	1.4		20	20	WALK-IN COOLER	2#12+1#12G- 3/4"	2	20	
21	21	BOILER-2 CONTROL	#12-3/4"	1	20			0.5	22	22					
23	23	REC - GENERATOR YARD	#12-3/4"	1	20			0.2	24	24	WALK-IN LIGHTS & DOORS	#12-3/4"	1	20	
25	25	ATC PANEL	#12-3/4"	1	20	0.4	1.0		26	26	REC - MDF 069	#10-3/4"	1	20	
27	27	SPARE	1	20			0.8		28	28	REC - MDF 069	#10-3/4"	1	20	
29	29	SPARE	1	20				3.0	30	30	GENERATOR BLOCK HEATER	2#8+1#10G- 3/4"	2	40	
31	31	SPARE	1	20					32	32					
33	33	SPARE	1	20					34	34	SPARE		1	15	
35	35	SPARE	1	20					36	36	SPARE		1	15	
37	37	EXTERNAL SURGE	4#8+ #8G- 3/4"	3	30	--	--	--	38	38	SPACE & PROVISIONS	--	1	--	
39	39	PROTECTIVE DEVICE	#8G- 3/4"			--	--	--	40	40	SPACE & PROVISIONS	--	1	--	
41	41					3.0	8.6	3.1	42	42	SPACE & PROVISIONS	--	1	--	
						11.6	8.7	9.6							

CONNECTED LOAD = 29.9 KVA
 DEMAND LOAD = 28.0 KVA
 MIN AIC RATING = 10,000 AMPS SYMMETRICAL
 MAIN BREAKER 100 AMPS
 LOCATION MECHANICAL RM

- GENERAL NOTES:**
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 - UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (---) SHALL REMAIN.
 - DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
 - WHERE EQUIPMENT IS NOTED "DISCONNECT" OR "REMOVE," REMOVE ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE, UNLESS OTHERWISE NOTED.
 - REMOVE EXISTING EQUIPMENT AND DEVICES INDICATED, INCLUDING ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.
 - EXISTING CIRCUITS INTERRUPTED BY DEMOLITION, BUT ARE TO REMAIN, SHALL BE MADE CONTINUOUS.
- SPECIFIC NOTES:**
- EXISTING SWITCHBOARD IS BY WESTINGHOUSE, POW-R-LINE C SWITCHBOARD, CIRCA DECEMBER 1993, RATED AT 277/480V, 3-PHASE, 4-WIRE, 65,000 AIC, 2000A MAIN FUSED SWITCH.
 - EXISTING TO REMOVE 3P-60A FUSED ENCLOSED DISCONNECT SWITCH, LABELED "GYW SERVICE DISCONNECT".
 - DISCONNECT AND REMOVE 3P-60A FUSED ENCLOSED DISCONNECT SWITCH, LABELED "EMERGENCY DISCONNECT".
 - PROVIDE CONNECTIONS BACK TO EXISTING STANDBY CIRCUITS AT PULLBOX THAT WAS PREVIOUSLY PANEL LE.
 - DISCONNECT AND REMOVE 3P-30A FUSED ENCLOSED DISCONNECT SWITCH.
 - DISCONNECT AND REMOVE 3P-60A FUSED ENCLOSED DISCONNECT SWITCH.
 - DISCONNECT AND REMOVE 3P-60A FUSED ENCLOSED DISCONNECT SWITCH.
 - REFER TO SPECIFIC NOTE 6/E-1 FOR ADDITIONAL INFORMATION.
 - REFER TO SPECIFIC NOTE 7/E-1 FOR ADDITIONAL INFORMATION.
 - EXISTING SWITCHBOARD IS BY WESTINGHOUSE, POW-R-LINE C SWITCHBOARD, CIRCA DECEMBER 1993, RATED AT 120/208V, 3-PHASE, 4-WIRE, 65,000 AIC, 1600A MAINS WITH 1600A MAIN CIRCUIT BREAKER.
 - PROVIDE TYPE 10 GENERATOR, PER NFPA 110. THE GENERATOR SHALL BE ABLE TO PROVIDE GENERATOR POWER TO THE SCHOOL, WITHIN 15 SECONDS AFTER A UTILITY POWER OUTAGE.
 - PROVIDE GENERATOR CONTROL WIRING IN CONDUIT BETWEEN GENERATOR CONTROL PANEL AND ASSOCIATED AUTOMATIC TRANSFER SWITCHES. MAKE CONNECTIONS NECESSARY FOR COMPLETE INSTALLATION. GENERATOR CONTROL WIRING SHALL BE AS PER GENERATOR MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE WIRING IN CONDUIT FROM GENERATOR CONTROL PANEL TO GENERATOR REMOTE ALARM ANNUNCIATOR PANEL. WIRING SHALL BE AS PER GENERATOR MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE GENERATOR CONCRETE PAD. REFER TO DETAIL 116-0 FOR ADDITIONAL INFORMATION.
 - PROVIDE 3P-150A CIRCUIT BREAKER TO SERVE GENERATOR STANDBY LOADS. MOUNT CIRCUIT BREAKER WITHIN GENERATOR ENCLOSURE AND MAKE CONNECTIONS. COORDINATE LOCATION OF CIRCUIT BREAKER WITH GENERATOR MANUFACTURER.
 - PROVIDE 3P-300A ELECTRONIC TRIP CIRCUIT BREAKER TO SERVE GENERATOR EMERGENCY LIFE SAFETY LOADS. MOUNT CIRCUIT BREAKER WITHIN GENERATOR ENCLOSURE AND MAKE CONNECTIONS. COORDINATE LOCATION OF CIRCUIT BREAKER WITH GENERATOR MANUFACTURER.
 - PROVIDE 300A GENERATOR DOCKING STATION IN NEMA TYPE 3R ENCLOSURE, EQUAL TO TRIPSTAR 0850 WITH TWO 3P-70A CIRCUIT BREAKERS, 8P KEYWAY INTERLOCKED. FOR CONNECTIONS TO ATS-1 AND PORTABLE MOBILE GENERATOR. FEEDER FOR LOAD BANK CONNECTION SHALL BE SIZED FOR 300A. PROVIDE SIGN ON FRONT OF GENERATOR DOCKING STATION TO READ AS FOLLOWS "SERVING EMERGENCY TRANSFER SWITCH (ATS-1) IN ELECTRICAL ROOM, 277/480V, 3-PHASE, 4-WIRE".
 - REFER TO DIAGRAM 3/E-0 FOR GENERATOR GROUNDING.
 - PROVIDE ONE SET (4 #30 + #2 GROUND IN 3" CONDUIT) BETWEEN 3P-300A ELECTRONIC TRIP CIRCUIT BREAKER AT GENERATOR SERVING EMERGENCY LIFE SAFETY LOADS AND GENERATOR DOCKING STATION, SIZED FOR LOAD BANK CONNECTION.
 - PROVIDE 4 #10 + #2 GROUND IN 2" CONDUIT. REFER TO DETAIL 716-0 FOR GENERATOR DUCTBANK.
 - PROVIDE 4 #4 + #8 GROUND IN 1 1/4" CONDUIT. REFER TO DETAIL 716-0 FOR GENERATOR DUCTBANK.
 - PROVIDE 3P-100A-600V FUSED ENCLOSED SWITCH WITH 70A CURRENT LIMITING FUSES IN NEMA TYPE 1 ENCLOSURE TO SERVE GENERATOR EMERGENCY LIFE SAFETY LOADS.
 - PROVIDE 4P-30A AUTOMATIC TRANSFER SWITCH (ATS) TO SERVE EMERGENCY LIFE SAFETY LOADS. ATS SHALL HAVE A MINIMUM UL 1008 WITHSTAND AND CLOSING RATING OF 66k AIC. PROVIDE NAMEPLATE ON FRONT OF ATS TO READ "EMERGENCY ATS".
 - PROVIDE 3P-100A-600V NON-FUSED ENCLOSED SWITCH WITH NEUTRAL KIT IN NEMA TYPE 1 ENCLOSURE TO SERVE GENERATOR EMERGENCY LIFE SAFETY LOADS.
 - PROVIDE 3P-200A-600V FUSED ENCLOSED SWITCH WITH 100A CURRENT LIMITING FUSES IN NEMA TYPE 1 ENCLOSURE TO SERVE GENERATOR STANDBY LOADS.
 - PROVIDE 4P-150A AUTOMATIC TRANSFER SWITCH (ATS) TO SERVE STANDBY LOADS. ATS SHALL HAVE A MINIMUM UL 1008 WITHSTAND AND CLOSING RATING OF 66k AIC. PROVIDE NAMEPLATE ON FRONT OF ATS TO READ "STANDBY ATS".
 - PROVIDE 3P-200A-600V NON-FUSED ENCLOSED SWITCH WITH NEUTRAL KIT IN NEMA TYPE 1 ENCLOSURE TO SERVE GENERATOR STANDBY LOADS.
 - REFER TO SPECIFIC NOTE 11/E-5 FOR ADDITIONAL INFORMATION.
 - REFER TO SPECIFIC NOTE 12/E-5 FOR ADDITIONAL INFORMATION.
 - PROVIDE CONNECTIONS BACK TO EXISTING EMERGENCY CIRCUITS AT PULLBOX THAT WAS PREVIOUSLY PANEL HE.
 - PROVIDE 3P-150A CIRCUIT BREAKER IN SPACE OF DISTRIBUTION SECTION OF EXISTING SWITCHBOARD TO SERVE PANEL E (VIA ATS-2). CIRCUIT BREAKER TYPE AND AIC RATING SHALL MATCH EXISTING.
 - PROVIDE 3P-70A CIRCUIT BREAKER IN SPACE OF DISTRIBUTION SECTION OF EXISTING SWITCHBOARD TO SERVE PANEL E (VIA ATS-3). CIRCUIT BREAKER TYPE AND AIC RATING SHALL MATCH EXISTING.
 - PROVIDE 4 #10 + #6 GROUND IN 2" CONDUIT.
 - PROVIDE 4 #4 + #8 GROUND IN