

# Generator and Electrical Equipment Replacement

## THOMAS S. WOOTTON HIGH SCHOOL

2100 WOOTTON PARKWAY, ROCKVILLE, MD 20850

# Montgomery County Public Schools

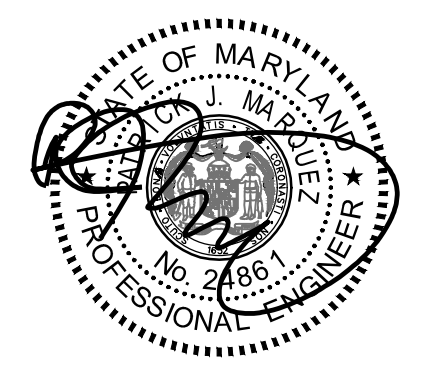
### MECHANICAL AND ELECTRICAL ENGINEERS

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

### STRUCTURAL ENGINEERS

RATHGEBER/GOSS ASSOCIATES  
15871 CRABBS BRANCH WAY  
ROCKVILLE, MARYLAND 20855  
PHONE: 301.590.0071

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT  
**THOMAS S. WOOTTON HIGH SCHOOL**  
 2100 WOOTTON PARKWAY  
 ROCKVILLE, MD 20850  
 MONTGOMERY COUNTY PUBLIC SCHOOLS

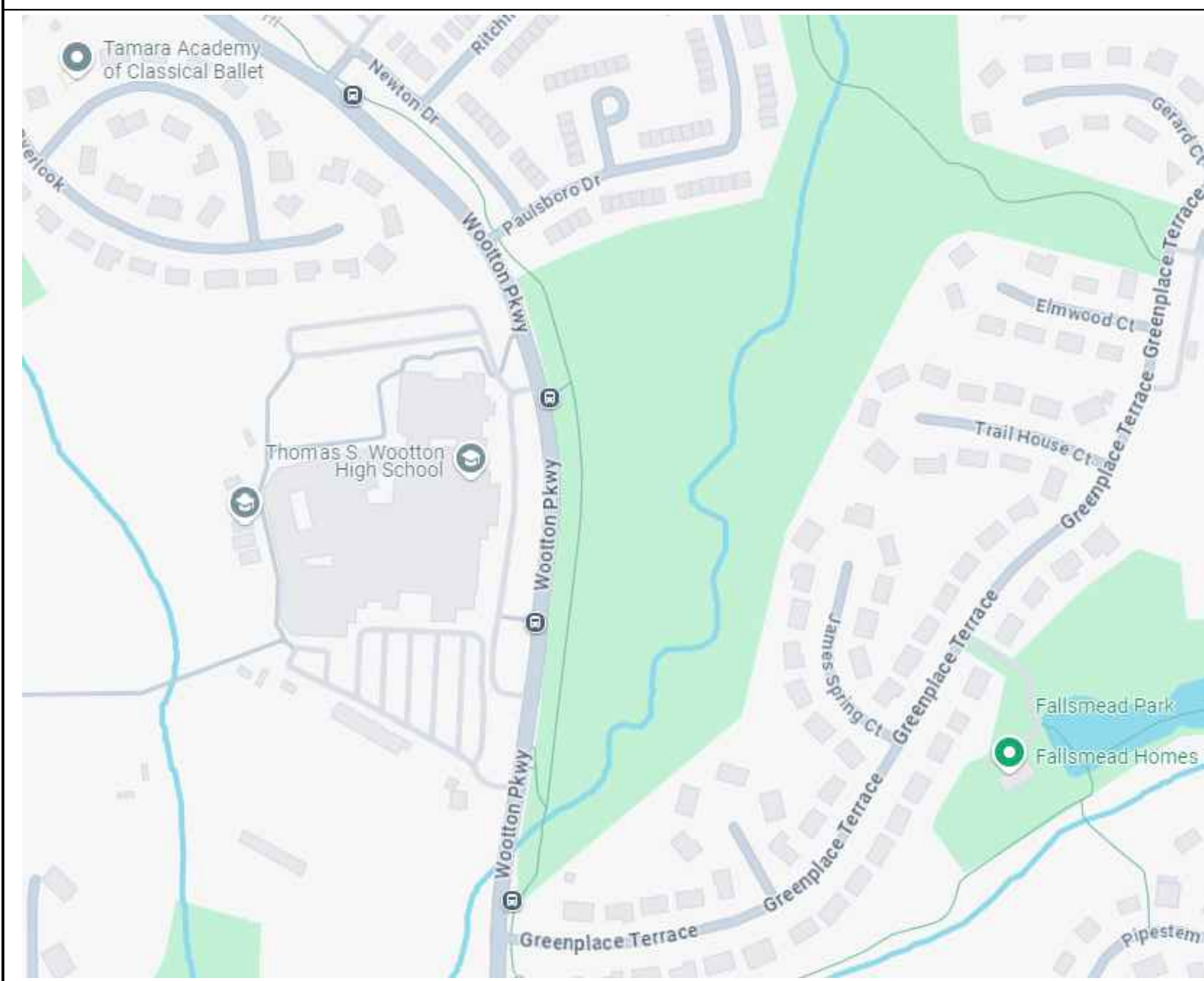


Professional Certification  
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland. License No. 24861. Expiration date: 02-24-2026.

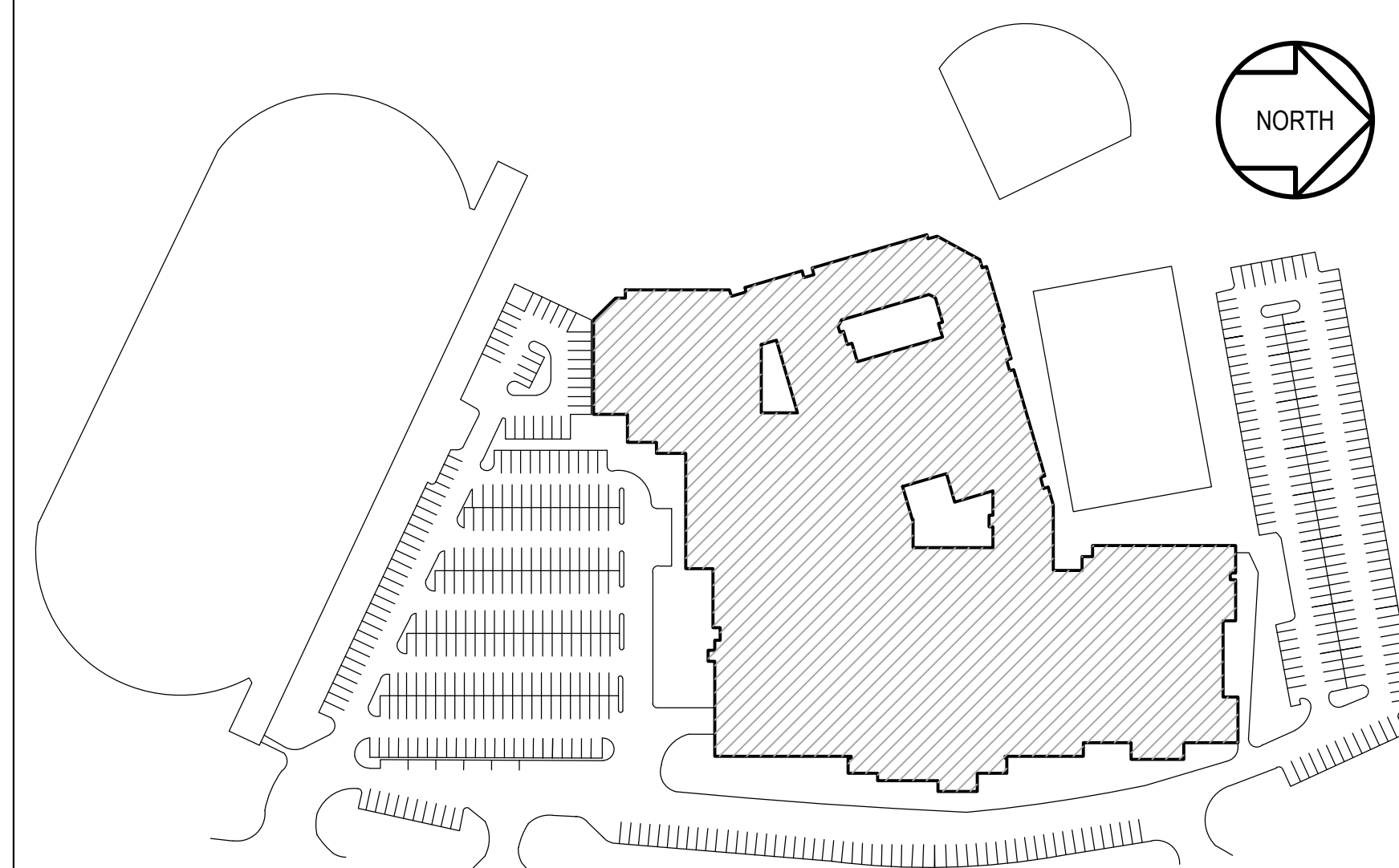


Mechanical & Electrical Consulting Engineers  
11155 Red Run Boulevard, Suite 310  
Baltimore, Maryland 21117  
tel 410-265-6100  
jamesposey.com

### VICINITY PLAN



### SITE PLANS



### DRAWING INDEX

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  - S1.00 LOWER LEVEL PARTIAL FRAMING PLAN
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  - M-2 PART LOWER LEVEL PLAN - DEMOLITION AND NEW WORK
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  - E-2 MAIN LEVEL REFERENCE DRAWING
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### PROFESSIONAL CERTIFICATION

These contract documents for Thomas Wootton High 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.

02/19/2025 (Date)  
Maryland Professional Engineer Registration No. 24861

### APPLICABLE CODES & STANDARDS

- 2021 IBC: INTERNATIONAL BUILDING CODE
- 2021 IMC: INTERNATIONAL MECHANICAL CODE
- 2021 IPC: INTERNATIONAL PLUMBING CODE WITH WSSC AMENDMENTS
- ASHRAE 90.1: ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL BUILDINGS.
- NEC 2020: NATIONAL ELECTRICAL CODE
- ASHRAE 2017-2020 HANDBOOKS.

### 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 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 INFORMATION 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.

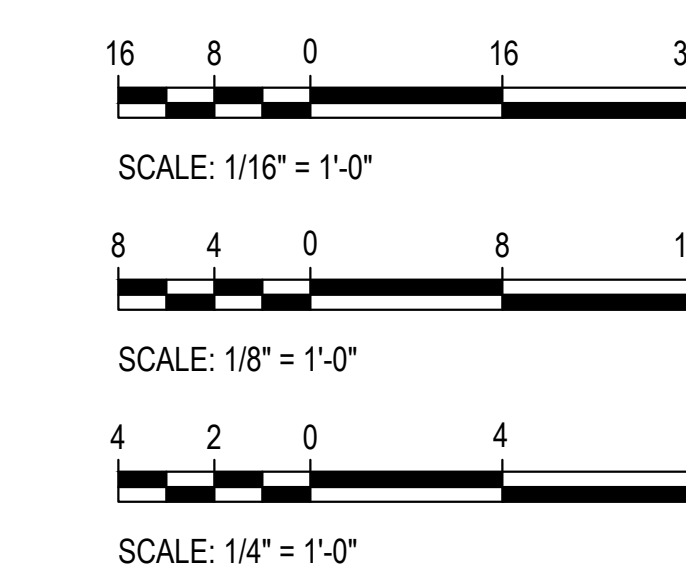
### BOARD OF EDUCATION

DR. THOMAS W. TAYLOR	MCPS SUPERINTENDENT
MR. ADNAN MAMOON	DEPUTY CHIEF, MCPS OFFICE OF FACILITIES MANAGEMENT
MS. JULIE YANG	PRESIDENT / DISTRICT 3
MS. GRACE RIVERA-OVEN	VICE PRESIDENT / DISTRICT 1
MS. KARLA SILVESTRE	AT-LARGE
MS. RITA MONTOYA	AT-LARGE
MS. BRENDA WOLFF	DISTRICT 5
MS. LAURA STEWART	DISTRICT 4
MS. NATALIE ZIMMERMAN	DISTRICT 2
MR. PRANEEL SUVARNA	STUDENT MEMBER OF THE BOARD

### 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. THERE IS NO INCREASE IN FLOOR AREA, NO SITE CHANGES, NO CHANGE IN CLASSIFICATION OR TYPE OF CONSTRUCTION.
TYPE OF CONSTRUCTION	IIB	
NUMBER OF STORIES ABOVE GRADE	3	
HIGH RISE (Y/N)	N	
FIRE ALARM (Y/N)	Y	
FULLY SPRINKLERED (Y/N)	Y	
TOTAL BUILDING FLOOR AREA	295,620 SF	

### GRAPHIC SCALES



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

Tag	Description	Date
	BID DOCUMENTS	02/19/25

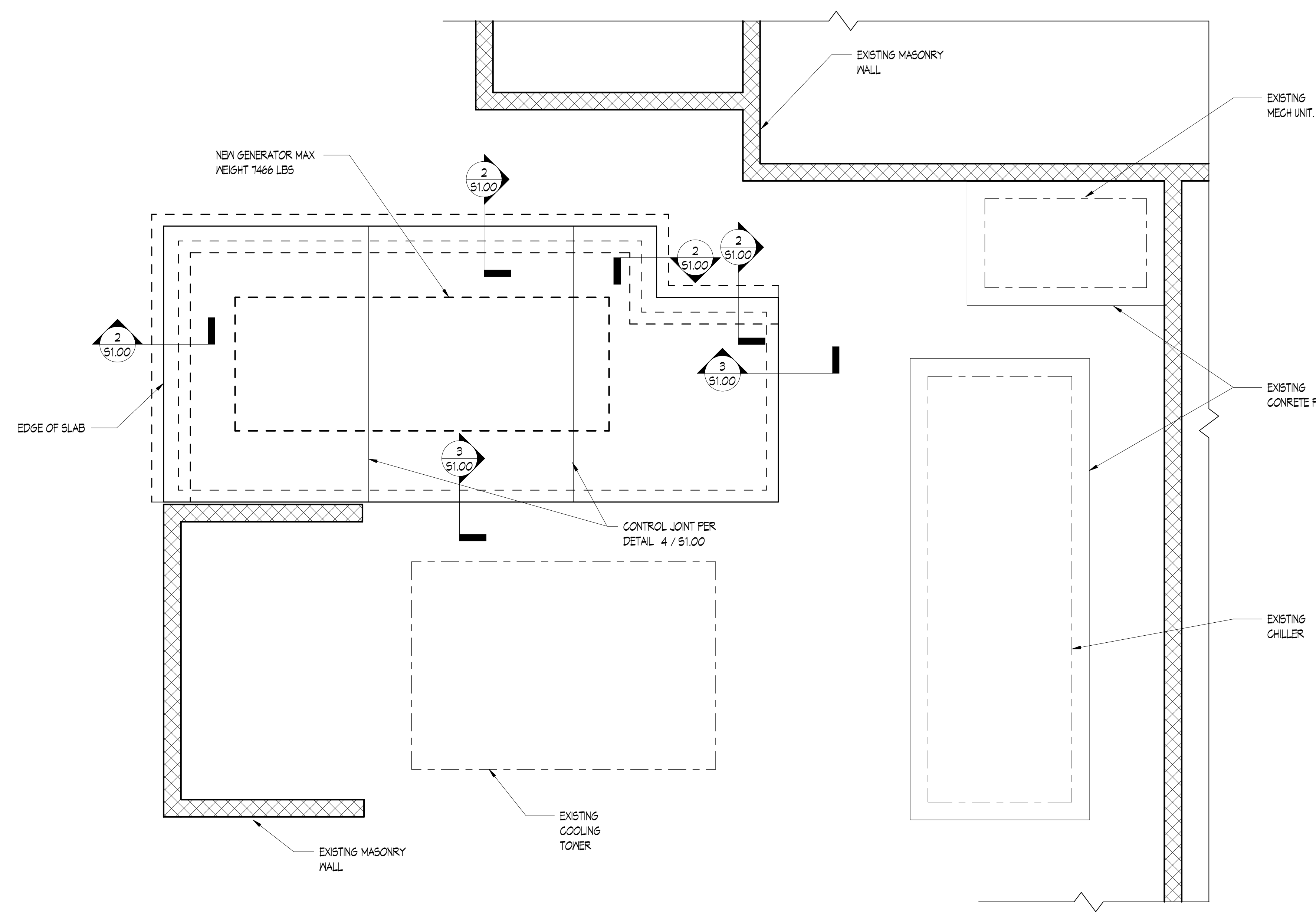
PSC No.	
Scale	AS NOTED
Project No.	8047-24
Date	FEBRUARY 19, 2025

Drawing Title  
**TITLE SHEET**

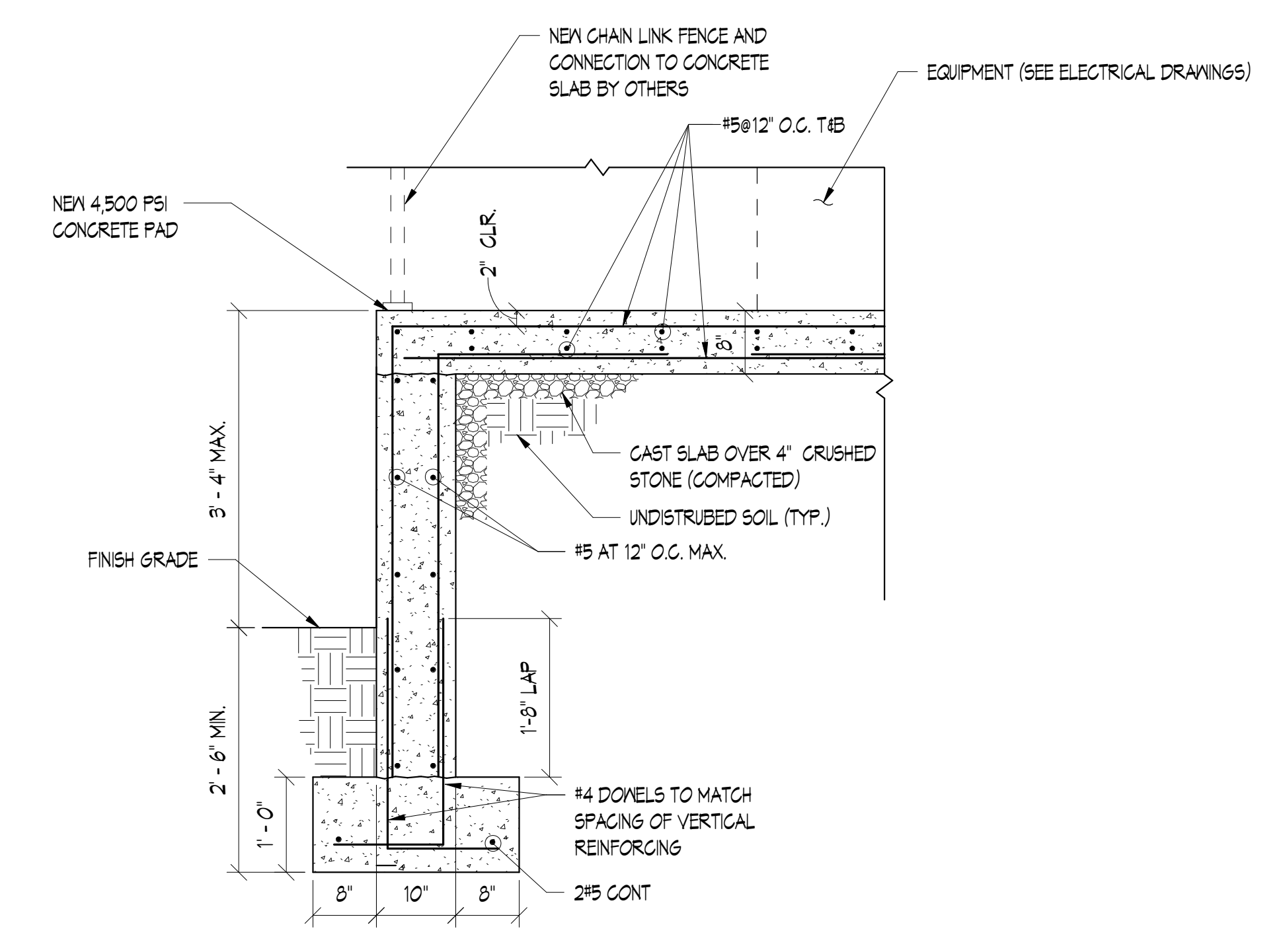
Sheet No.  
**T-1**





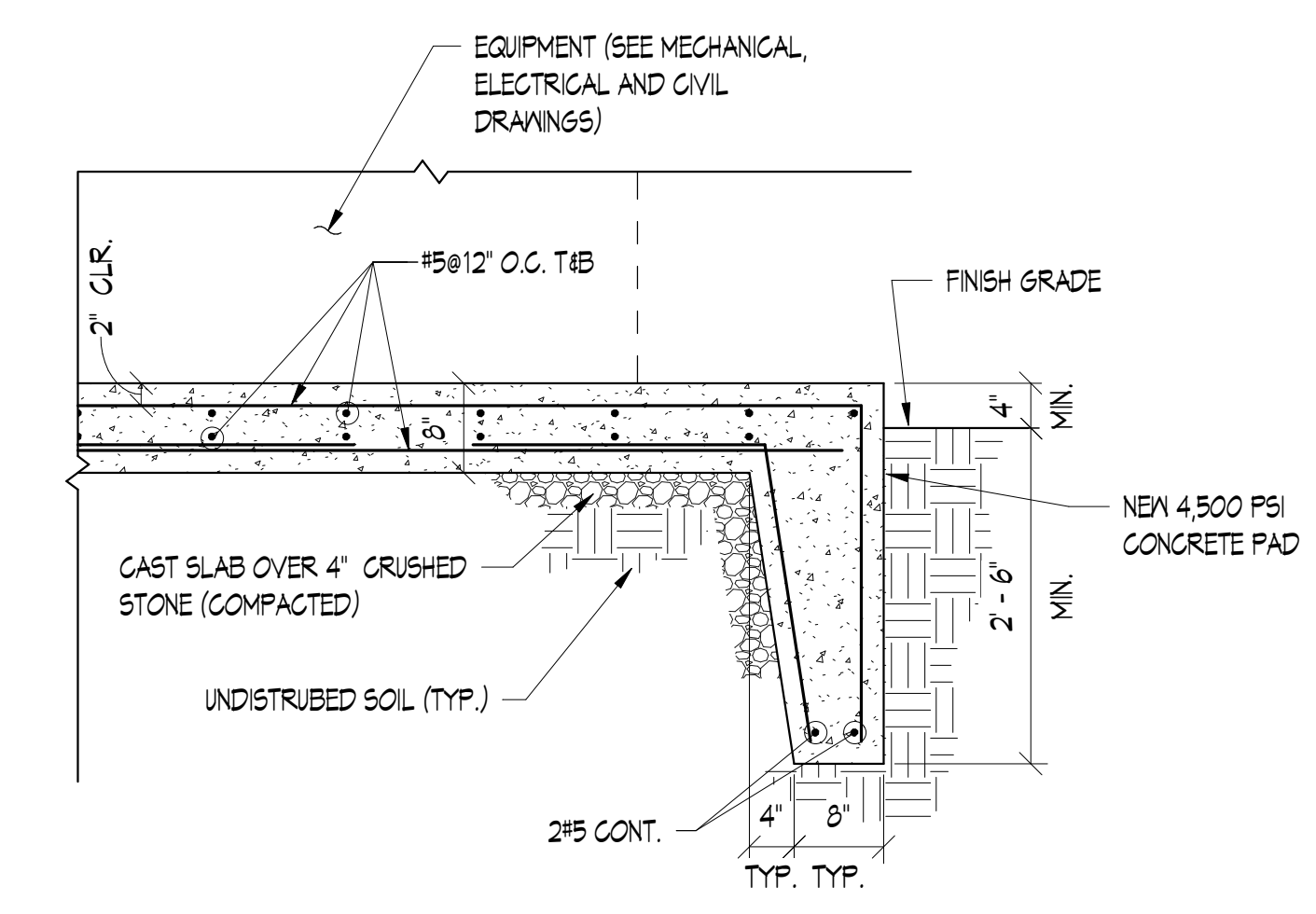


1 LOWER FLOOR  
SCALE: 1/4" = 1'-0"



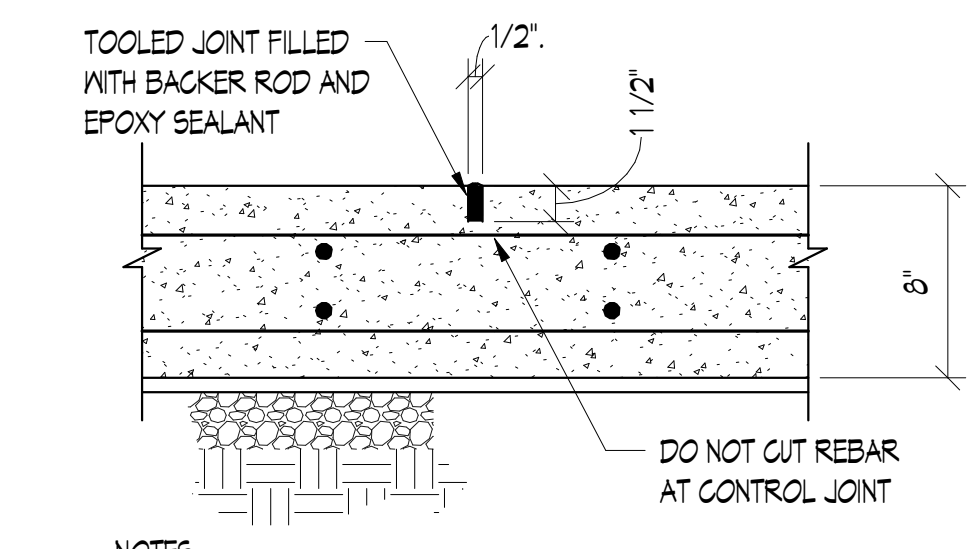
2 EXTERIOR CONCRETE PAD FOR EQUIPMENT  
SCALE: 3/4" = 1'-0"

NOTES:  
1) VERIFY ALL BASE AND PAD LOCATIONS, DIMENSIONS, AND ADEQUACY WITH THE ELECTRICAL ENGINEER AND THE INDIVIDUAL EQUIPMENT REQUIREMENTS. MECHANICAL ENGINEER TO SPECIFY ISOLATION DATA.  
2) EQUIPMENT MANUFACTURER SHALL SPECIFY ANCHORAGES.



3 EXTERIOR CONCRETE PAD FOR EQUIPMENT  
SCALE: 3/4" = 1'-0"

NOTES:  
1) VERIFY ALL BASE AND PAD LOCATIONS, DIMENSIONS, AND ADEQUACY WITH THE ELECTRICAL ENGINEER AND THE INDIVIDUAL EQUIPMENT REQUIREMENTS. MECHANICAL ENGINEER TO SPECIFY ISOLATION DATA.  
2) EQUIPMENT MANUFACTURER SHALL SPECIFY ANCHORAGES.



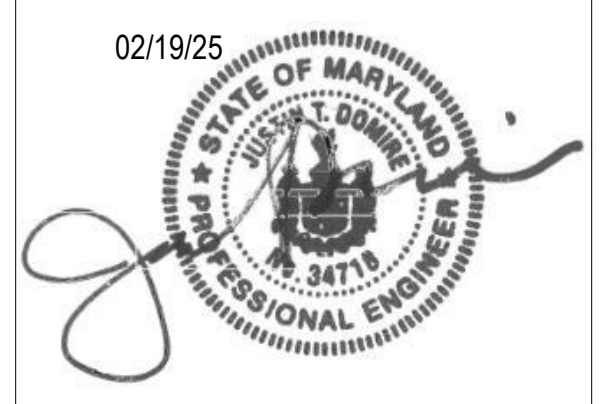
4 SLAB ON GRADE CONTROL JOINT  
SCALE: 1 1/2" = 1'-0"

NOTES:  
1) FILL JOINT WITH SEALANT AFTER SLAB HAS BEEN CURED.  
2) CONSTRUCTION JOINT MAY REPLACE CONTROL JOINT.  
3) SEE PLAN FOR LOCATION OF JOINTS.

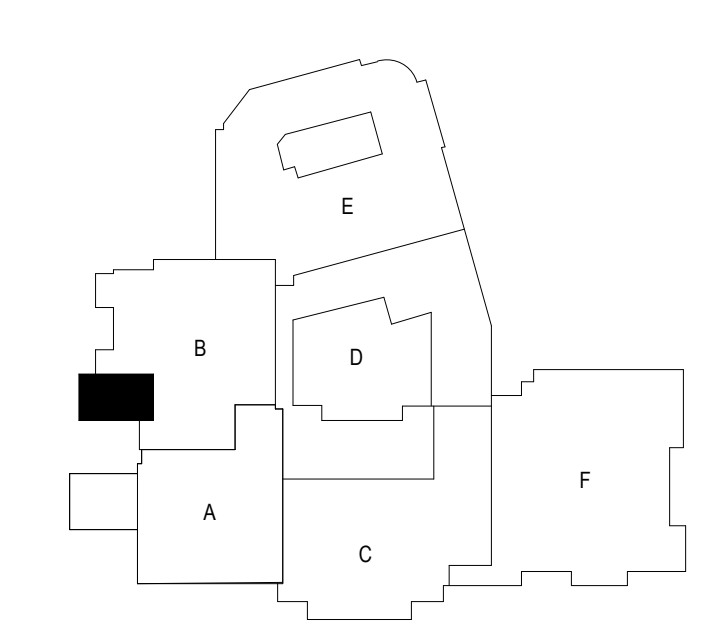
RATHGEBER/  
GOSS  
ASSOCIATES  
Consulting Structural Engineers  
15871 Crabbs Branch Way  
Rockville, Maryland 20855  
RGA PROJECT #24001.86

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT  
**THOMAS S. WOOTTON HIGH SCHOOL**  
 2100 WOOTTON PARKWAY  
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 MONTGOMERY COUNTY PUBLIC SCHOOLS

**James Posey Associates**  
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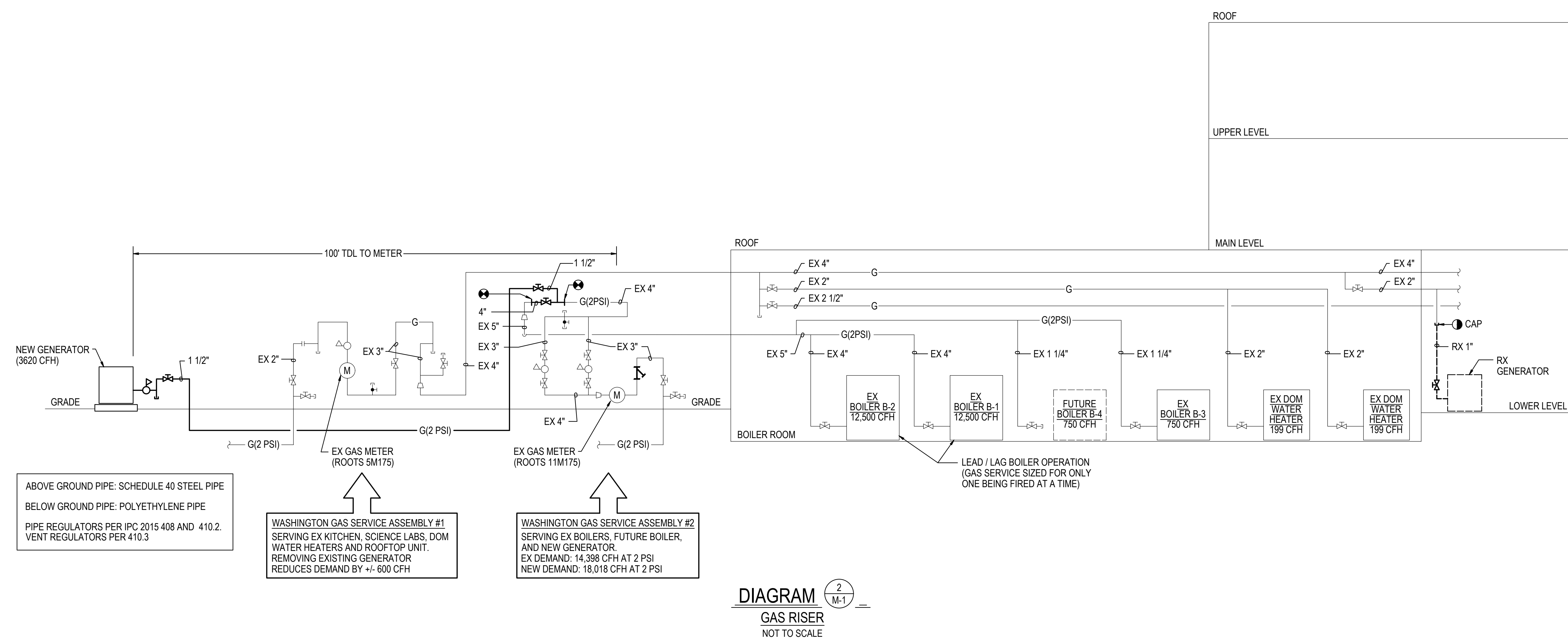
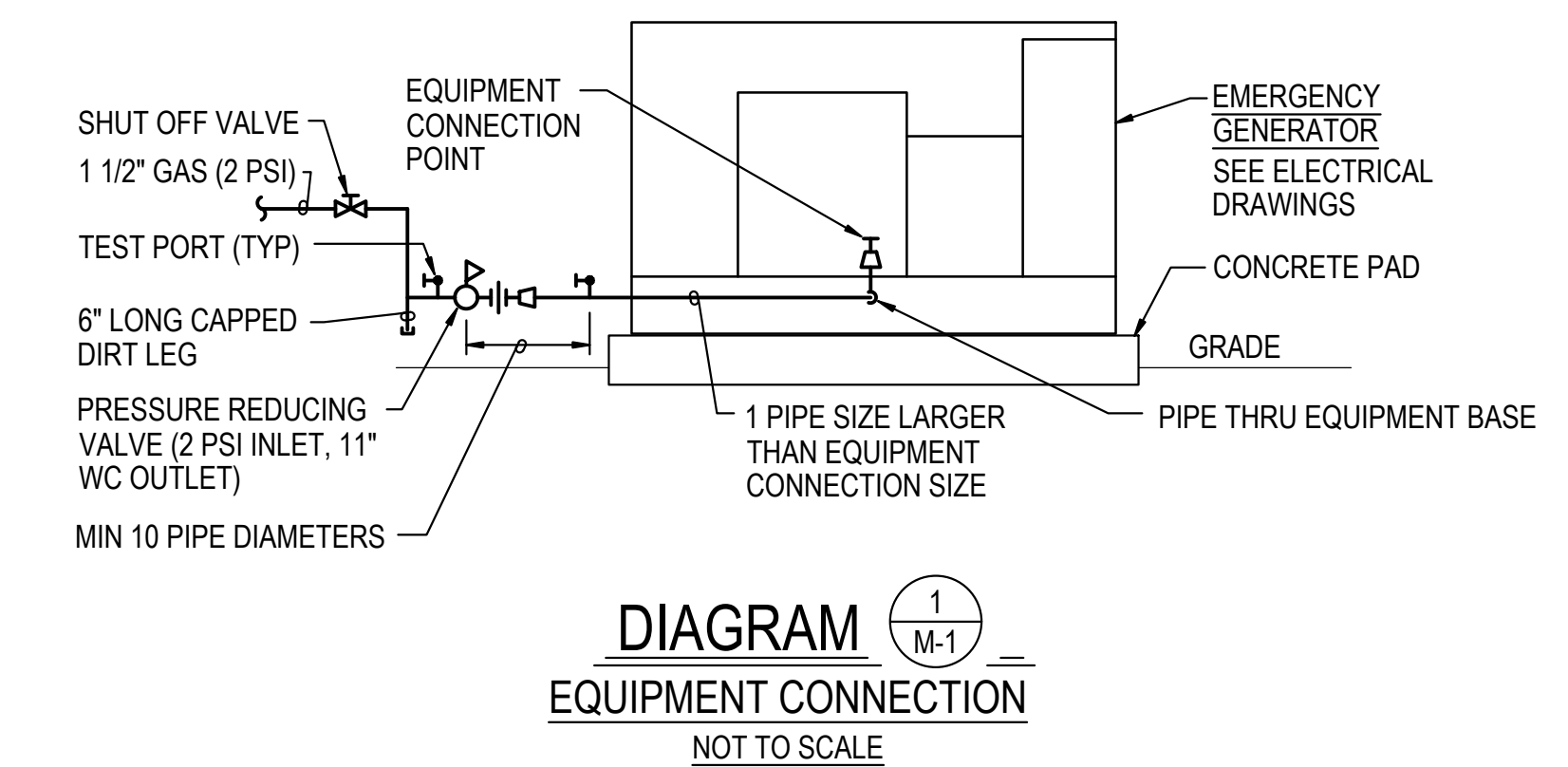


Tag	Description	Date
	BID DOCUMENTS	02/19/25
PSC No.		
Scale	AS NOTED	
Project No.	8047-24	
Date	FEBRUARY 19, 2025	
Drawing Title	LOWER LEVEL PARTIAL FRAMING PLAN	
Sheet No.	S1.00	





MECHANICAL SYMBOLS AND ABBREVIATIONS			
— G —	LOW PRESSURE GAS PIPE	∅	INDICATES DIAMETER
— G (2 PSI) —	MEDIUM PRESSURE GAS PIPE	A/D	ACCESS DOOR
— LP —	LIQUIFIED PETROLEUM GAS PIPE	AAV	AUTOMATIC AIR VENT
—	PIPE CAP OR PLUG	ABV	ABOVE
— —	UNION	AFF	ABOVE FINISHED FLOOR
— —	SHUT-OFF VALVE	BLDG	BUILDING
— —	SOLENOID VALVE	BLW	BELOW
— —	PRESSURE REDUCING / REGULATING VALVE	BTUH	BRITISH THERMAL UNITS PER HOUR
(M)	METER	CFH	CUBIC FEET PER HOUR
— —	GALVE COCK / TEST PORT	CFM	CUBIC FEET PER MINUTE
— —	CONCENTRIC REDUCER	CLG	CEILING
— —	ECCENTRIC REDUCER	CONC	CONCRETE
— —	FLOW DIRECTION ARROW	CW	DOMESTIC COLD WATER PIPE
— —	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 M1	EXH	EXHAUST
		FL	FLOOR
		FT	FEET
		G	GAS PIPE
		GALV	GALVANIZED
		IN	INCH, INCHES
		MAX	MAXIMUM
		MBH	THOUSAND BTU'S PER HOUR
		MCP	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



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: 01-16-2027.



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PSC No	
Scale	AS NOTED
Project No	8047-24
Date	FEBRUARY 19, 2025

Drawing Title  
DIAGRAMS, SYMBOLS AND ABBREVIATIONS

Sheet No:  
**M-1**

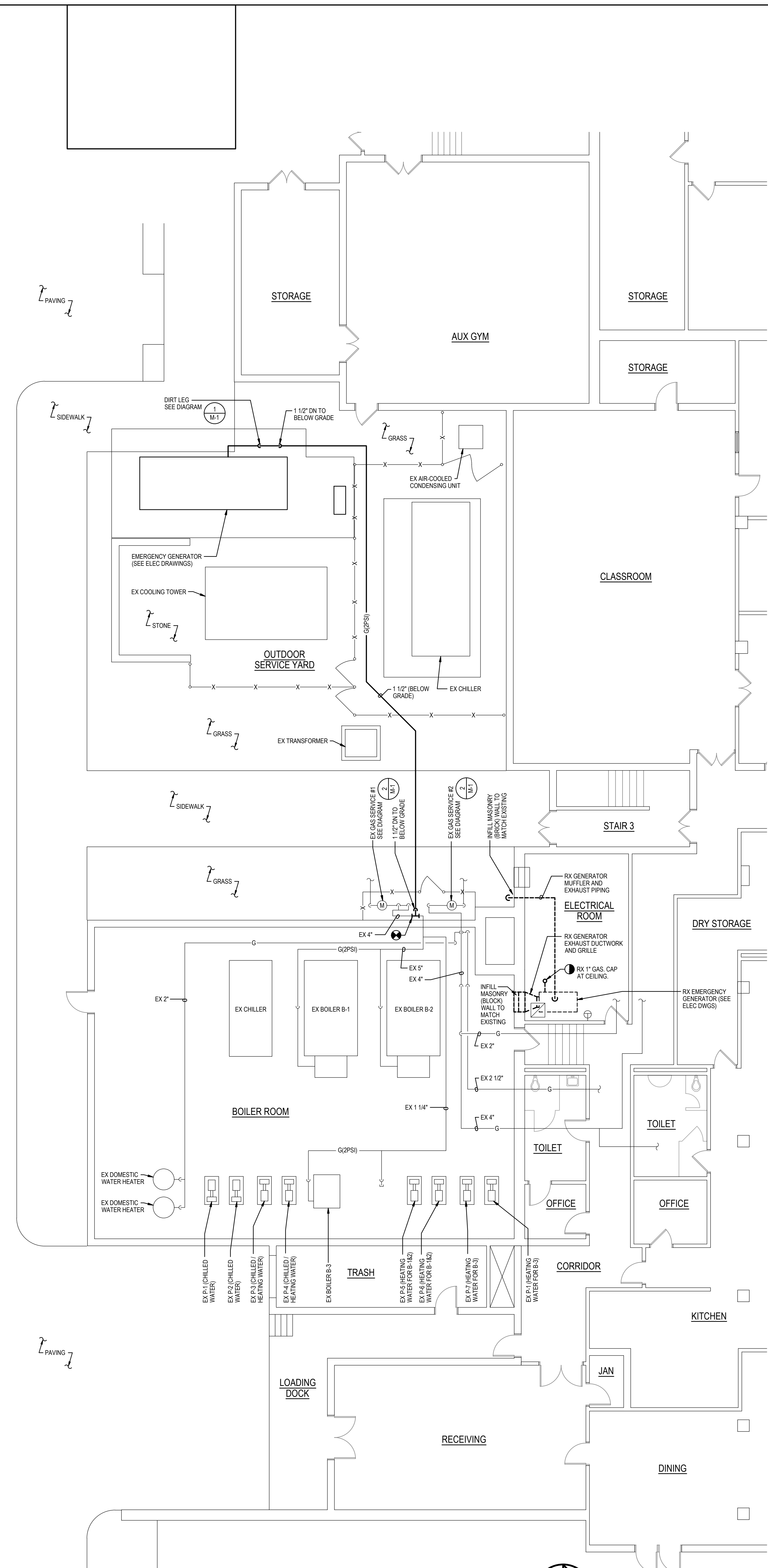
GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT

# THOMAS S. WOOTTON HIGH SCHOOL

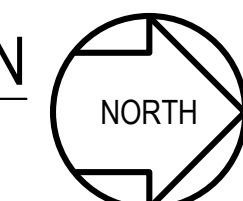
2100 WOOTTON PARKWAY  
ROCKVILLE, MD 20850

MONTGOMERY COUNTY PUBLIC SCHOOLS

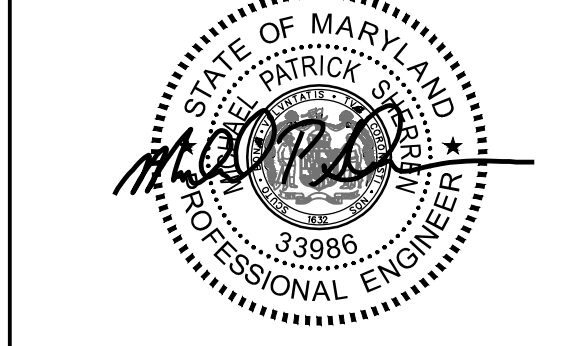
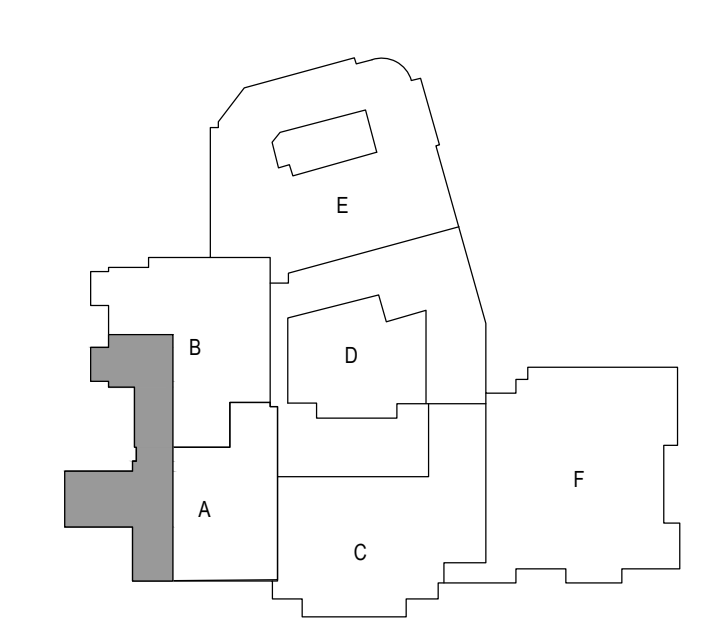
- GENERAL NOTES**
- INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING 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 DASHES (---) 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.



**1**  
M-2  
**PART LOWER LEVEL PLAN**  
DEMOLITION AND NEW WORK  
SCALE: 1/8"=1'-0"



**KEY PLAN**



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: 01-16-2027.



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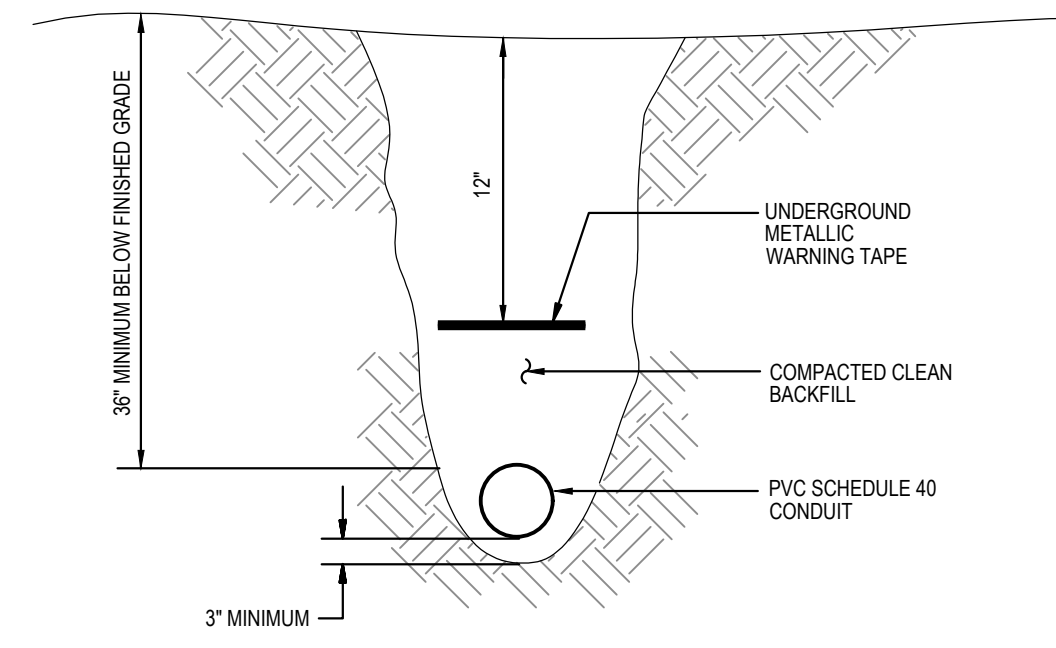
Tag	Description	Date
	BID DOCUMENTS	02/19/25

PSC No	
Scale	AS NOTED
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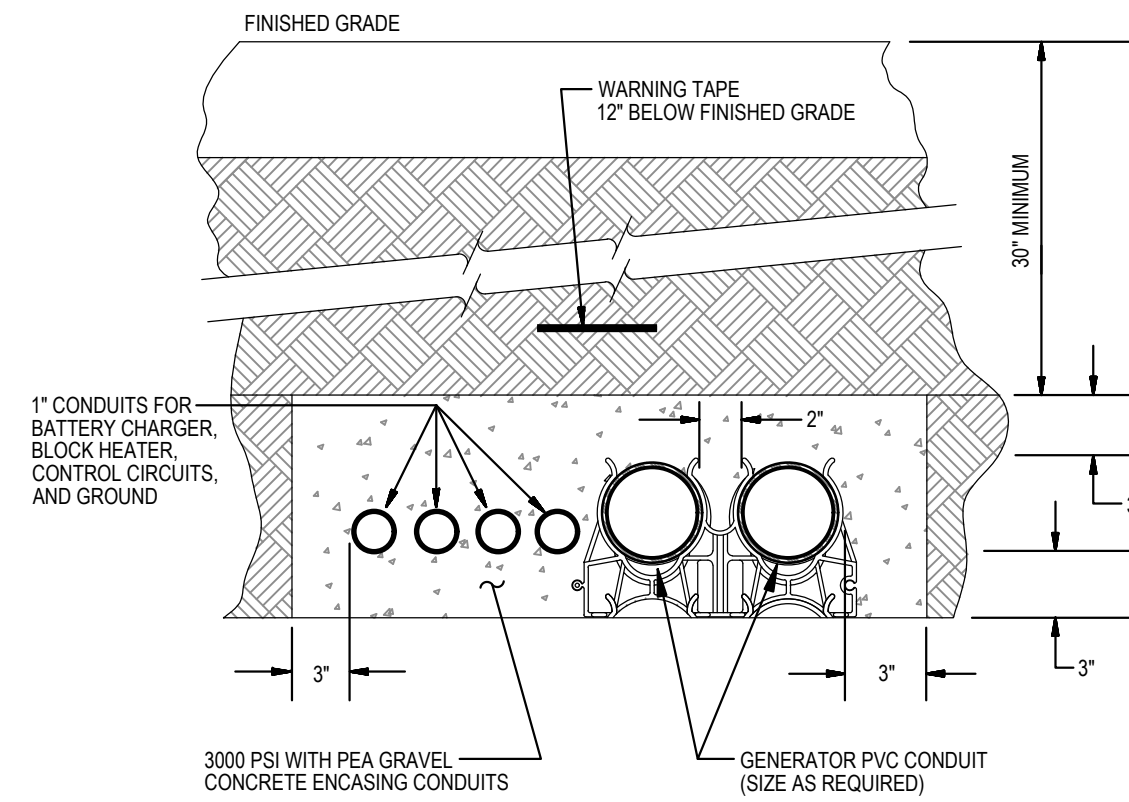
Drawing Title  
**PART LOWER LEVEL PLAN - DEMOLITION AND NEW WORK**

Sheet No:  
**M-2**





**1**  
E-0  
**DETAIL**  
DIRECT-BURIED CONDUIT  
NOT TO SCALE



**2**  
E-0  
**DETAIL**  
GENERATOR DUCTBANK  
NOT TO SCALE

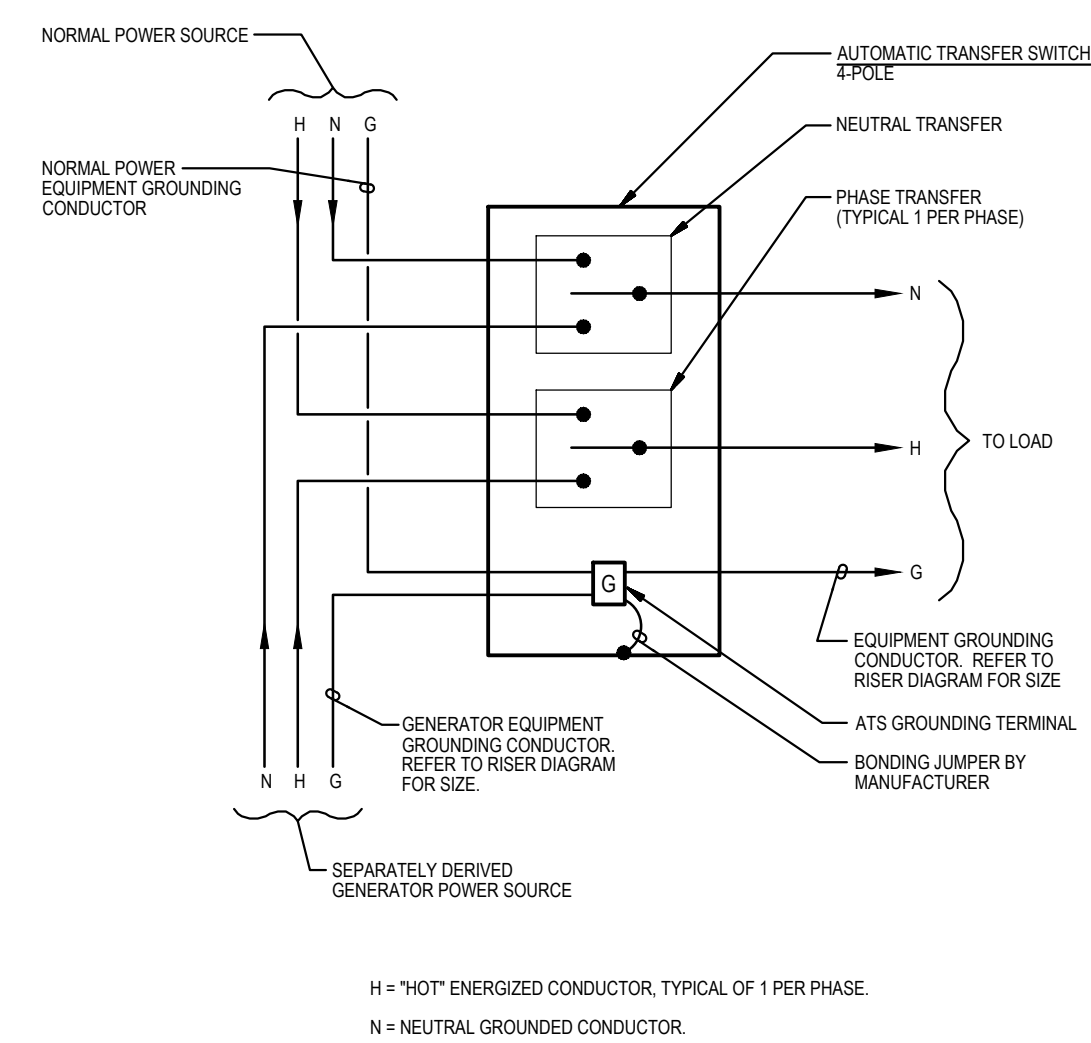
**GENERATOR DOCKING STATION**  
FOR CONNECTIONS TO A TEMPORARY PORTABLE GENERATOR

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

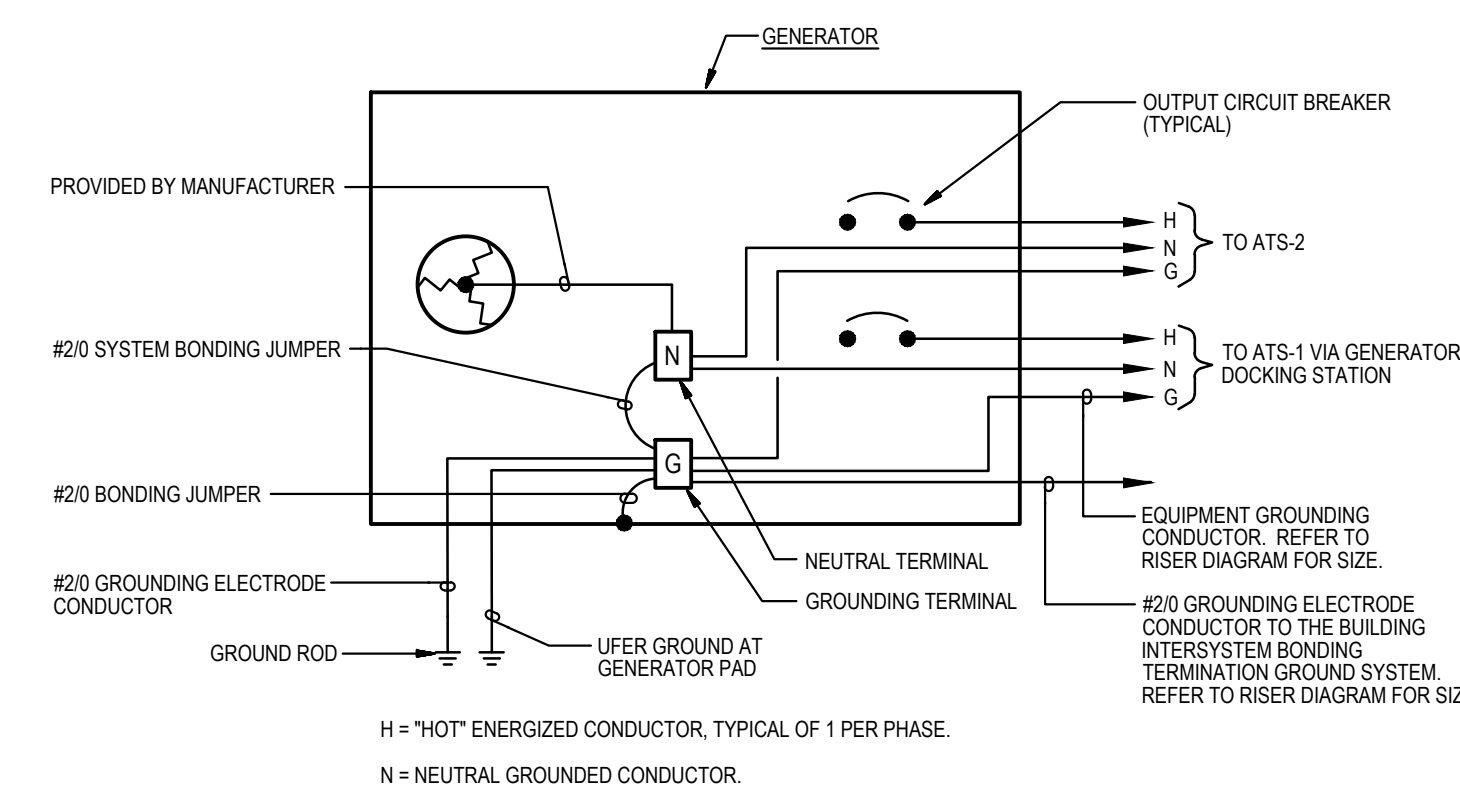
**3**  
E-0  
**DETAIL**  
PLACARD AT GENERATOR DOCKING STATION  
NOT TO SCALE

**EMERGENCY AND STANDBY POWER**  
300KW, 277/480 VOLTS, 3-PHASE, 4-WIRE  
NATURAL GAS GENERATOR  
LOCATED OUTDOORS  
OUTSIDE COOLING TOWER ENCLOSURE

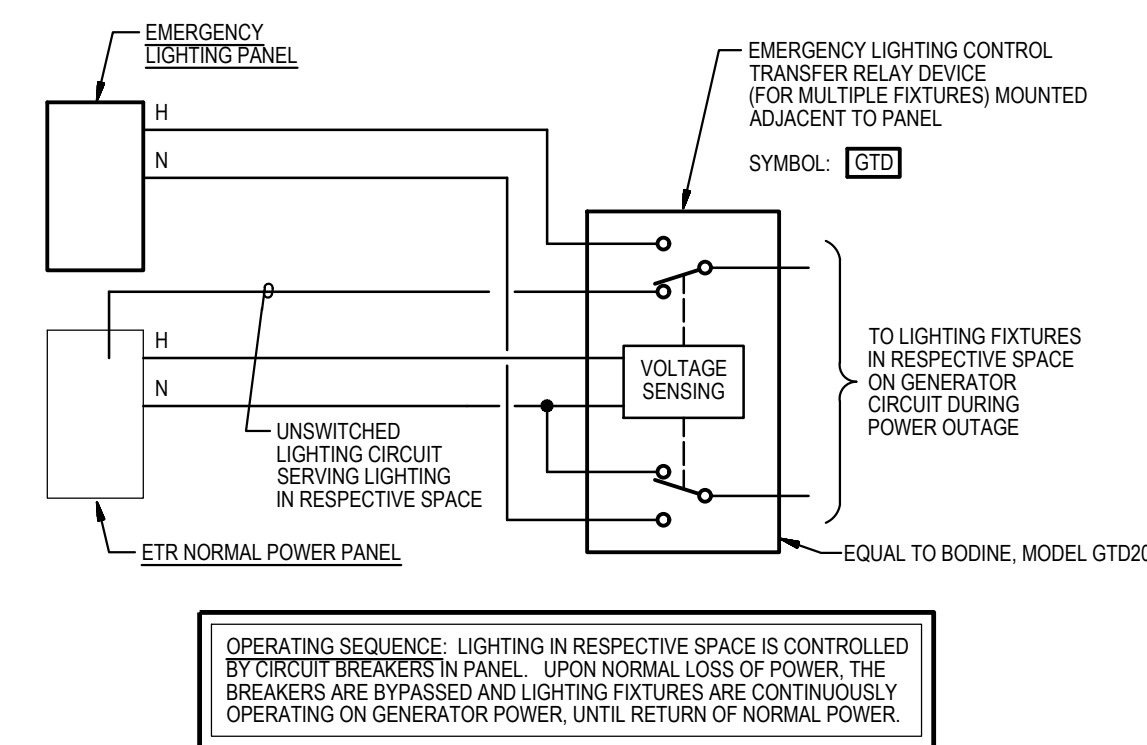
**4**  
E-0  
**DETAIL**  
PLACARD AT MAIN SERVICE  
NOT TO SCALE



**5**  
E-0  
**DIAGRAM**  
AUTOMATIC TRANSFER SWITCH GROUND WIRING  
NOT TO SCALE



**6**  
E-0  
**DIAGRAM**  
GENERATOR GROUNDING WIRING  
NOT TO SCALE



**7**  
E-0  
**DIAGRAM**  
GENERATOR TRANSFER DEVICE FOR MULTIPLE LIGHTING FIXTURES  
NO SCALE

**ELECTRICAL SYMBOLS AND ABBREVIATIONS**

**DEMOLITION**

- DISCONNECT AND REMOVE EXISTING FLUORESCENT LIGHTING FIXTURE.
- DISCONNECT AND REMOVE EXISTING WIRING IN CONDUIT.
- DISCONNECT AND REMOVE EXISTING HOMERUN WIRING IN CONDUIT BACK TO SOURCE.
- DISCONNECT AND REMOVE PANELBOARD OR CABINET AS INDICATED.
- DISCONNECT AND REMOVE TRANSFORMER.
- DISCONNECT AND REMOVE ENCLOSED SWITCH (DISCONNECT/SAFETY SWITCH).
- DISCONNECT AND REMOVE RECEPTACLE.

**EXISTING**

- 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 EXIT SIGN.
- EXISTING TO REMAIN CEILING MOUNTED EXIT SIGN.
- EXISTING TO REMAIN LINE-VOLTAGE TOGGLE SWITCH.
- EXISTING TO REMAIN LIGHTING OCCUPANCY SENSOR.
- EXISTING TO REMAIN LIGHTING CONTROL SWITCH PACK.
- EXISTING TO REMAIN POWER COMPANY METER.
- EXISTING TO REMAIN PANELBOARD, 277/480V OR 120/208V, SURFACE OR RECESSED MOUNTED.
- EXISTING TO REMAIN EQUIPMENT CABINET AS INDICATED.
- EXISTING TO REMAIN WIRING IN CONDUIT.
- EXISTING TO REMAIN WIRING IN CONDUIT CONTINUED.
- EXISTING TO REMAIN HOMERUN WIRING IN CONDUIT BACK TO SOURCE.
- EXISTING TO REMAIN CEILING MOUNTED JUNCTION BOX.
- EXISTING MOTOR CONNECTION.
- EXISTING EQUIPMENT CONNECTION.
- EXISTING TO REMAIN ENCLOSED SWITCH (DISCONNECT/SAFETY SWITCH).
- EXISTING TO REMAIN MOTOR STARTER.
- EXISTING TO REMAIN COMBINATION MOTOR STARTER.
- EXISTING TO REMAIN VARIABLE FREQUENCY DRIVE.
- EXISTING TO REMAIN SURFACE MOUNTED RECEPTACLE.
- EXISTING TO REMAIN RECESSED MOUNTED RECEPTACLE.
- EXISTING TO REMAIN RECEPTACLE ON GENERATOR CIRCUIT.
- EXISTING TO REMAIN EMERGENCY GAS SHUT-DOWN PUSH-BUTTON.

**POWER**

- HOMERUN TO PANELBOARD. NUMBER OF HASH MARKS INDICATES NUMBER OF CONDUCTORS. WHERE NO HASH MARKS APPEAR, PROVIDE TWO (2) CONDUCTORS PLUS GROUND. REFER TO PANEL SCHEDULES FOR CONDUCTOR SIZES. PROVIDE GROUND WIRES IN CONDUITS.
- WIRING IN SURFACE METAL RACEWAY.
- WIRING IN CONDUIT CONTINUED.
- WIRING IN CONDUIT TURNING DOWN.
- WIRING IN CONDUIT TURNING UP.
- JUNCTION BOX WITH COVER PLATE, CEILING OR WALL MOUNTED.
- PULLBOX, SIZED AS REQUIRED.
- ELECTRIC PANELBOARD 120/208V, SURFACE MOUNTED.
- ELECTRIC PANELBOARD 277/480V, SURFACE MOUNTED.
- BOX OR CABINET AS INDICATED, SURFACE MOUNTED.
- TRANSFORMER.
- AUTOMATIC TRANSFER SWITCH.
- ENCLOSED CIRCUIT BREAKER.
- ENCLOSED SWITCH (DISCONNECT/SAFETY SWITCH) IN NEMA TYPE 1 ENCLOSURE, UNLESS OTHERWISE NOTED. MOUNT 5'-6" ABOVE FLOOR TO TOP OF ENCLOSURE, UNLESS OTHERWISE NOTED. RATING AND FUSING AS INDICATED.
- HARD-WIRED ELECTRICAL CONNECTION. CONNECT TO EQUIPMENT AS NOTED.
- SURGE PROTECTIVE DEVICE.
- TAMPER-RESISTANT DUPLEX RECEPTACLE (NEMA 5-20R) ON GENERATOR STANDBY POWER CIRCUIT, SURFACE WALL-MOUNTED 48" ABOVE FLOOR TO TOP OF BOX.
- TAMPER-RESISTANT DOUBLE-DUPLEX (QUADRUPLEX) RECEPTACLE (NEMA 5-20R) ON GENERATOR STANDBY POWER CIRCUIT, SURFACE WALL-MOUNTED 16" ABOVE FLOOR TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED TO BE MOUNTED AT TOP OF DATA RACK.
- TAMPER-RESISTANT DOUBLE-DUPLEX (QUADRUPLEX) RECEPTACLE (NEMA 5-20R) ON GENERATOR STANDBY POWER CIRCUIT, SURFACE WALL-MOUNTED 48" ABOVE FLOOR TO BOTTOM OF BOX.
- TAMPER-RESISTANT DUPLEX RECEPTACLE (NEMA 5-20R), WEATHER-RESISTANT AND GFCI-TYPE WITH WEATHERPROOF WHILE-IN-USE COVER, ON GENERATOR STANDBY POWER CIRCUIT, SURFACE MOUNTED 24" ABOVE FLOOR TO BOTTOM OF BOX.
- GENERATOR TRANSFER DEVICE. REFER TO DIAGRAM 7/E-0.

**FIRE DETECTION AND ALARM**

- MONITOR MODULE.

**GENERAL**

- DENOTES REFERENCE TO SPECIFIC NOTE ON DRAWING.
  - DETAIL, DIAGRAM, OR PLAN NUMBER.
  - DRAWING NUMBER WHERE DETAIL, DIAGRAM, OR PLAN IS LOCATED.
  - 1/E-0 DETAIL REFERENCE: DETAIL, DIAGRAM, OR PLAN NUMBER/DRAWING NUMBER.
  - EXISTING CEILING TYPE: ACOUSTICAL TILE CEILING WITH ACOUSTICAL PANELS ON SUSPENDED METAL GRID CEILING SYSTEM.
  - EXISTING CEILING TYPE: GYPSUM BOARD DRYWALL CEILING.
- NOTES:**
- A. PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
  - B. 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.

**LIGHTING AND LIGHTING CONTROLS**

- CEILING OUTLET AND LUMINAIRE (LIGHTING FIXTURE) ON GENERATOR CIRCUIT, TYPE AS DESIGNATED.
- EXIT SIGN, TYPE AS DESIGNATED. CEILING MOUNTED OR WALL MOUNTED 8'-0" ABOVE FLOOR, WITH OR WITHOUT DIRECTIONAL ARROWS AS INDICATED. SHADED AREA INDICATES STENCIL FACE. CIRCUIT TO EXIT SIGN SHALL BE UNSWITCHED.
- EMERGENCY BATTERY LIGHTING UNIT, WALL MOUNTED 7'-6" ABOVE FLOOR, TYPE AS DESIGNATED.
- THREE-WAY TOGGLE SWITCH, WALL MOUNTED 48" ABOVE FLOOR TO TOP OF BOX.

**ABBREVIATIONS**

A, AMP	AMPERE(S)	LTG	LIGHTING
A/C	AIR-CONDITIONING	MCP	MONTGOMERY COUNTY PUBLIC SCHOOLS
AF	ABOVE FLOOR	MDF	MAIN DISTRIBUTION FRAME
AHU	AIR-HANDLING UNIT	MIN	MINIMUM
AIC	AMPERES INTERRUPTING CAPACITY	N	NEUTRAL
ATC	ACOUSTICAL TILE CEILING	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
ATS	AUTOMATIC TRANSFER SWITCH	NO.	NUMBER
BLDG	BUILDING	P	POLE(S) OR PUMP
BSO	BUILDING SERVICES OFFICE	PIA	PUBLIC ADDRESS
C	CONDUIT	PE	PHYSICAL EDUCATION
CB	CIRCUIT BREAKER	PH	PHASE
CIRC	CIRCULATION	PSI	POUNDS PER SQUARE INCH
CT	CURRENT TRANSFORMERS	PVC	POLYVINYL CHLORIDE
CUST	CUSTODIAL	REC	RECEPTACLE
ELEC	ELECTRICAL	REFRIG	REFRIGERATOR
EM	EMERGENCY	RM	ROOM
ETR	EXISTING TO REMAIN	RX	REMOVE EXISTING
EX	EXISTING	SERV	SERVICES
FACP	FIRE ALARM CONTROL PANEL	SPD	SURGE PROTECTIVE DEVICE
G	GROUND, GFCI (RECEPTACLE)	STOR	STORAGE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TYP	TYPICAL
GWB	GYPSUM WALL BOARD	V	VOLT(S)
H	HOT	VEST	VESTIBULE
HP	HORSEPOWER	VFD	VARIABLE FREQUENCY DRIVE
K	KELVIN (LIGHTING COLOR TEMPERATURE)	W	WIRE(S)
KVA	KILOVOLT-AMPERES	WP	WEATHERPROOF & WEATHER-RESISTANT
KW	KILOWATTS	XFMR	TRANSFORMER
LED	LIGHT-EMITTING DIODE (LIGHTING)	&	AND
LM	LUMEN(S) (LIGHT OUTPUT)		

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT  
**THOMAS S. WOOTTON HIGH SCHOOL**  
 2100 WOOTTON PARKWAY  
 ROCKVILLE, MD 20850  
 MONTGOMERY COUNTY PUBLIC SCHOOLS



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**James Posey Associates**  
Engineering Your Vision  
Mechanical & Electrical Consulting Engineers  
11155 Red Run Boulevard, Suite 310  
Baltimore, Maryland 21117  
tel 410-265-6100  
jamesposey.com

Tag	Description	Date
	BID DOCUMENTS	02/19/25

PSC No  
Scale AS NOTED  
Project No 8047-24  
Date FEBRUARY 19, 2025

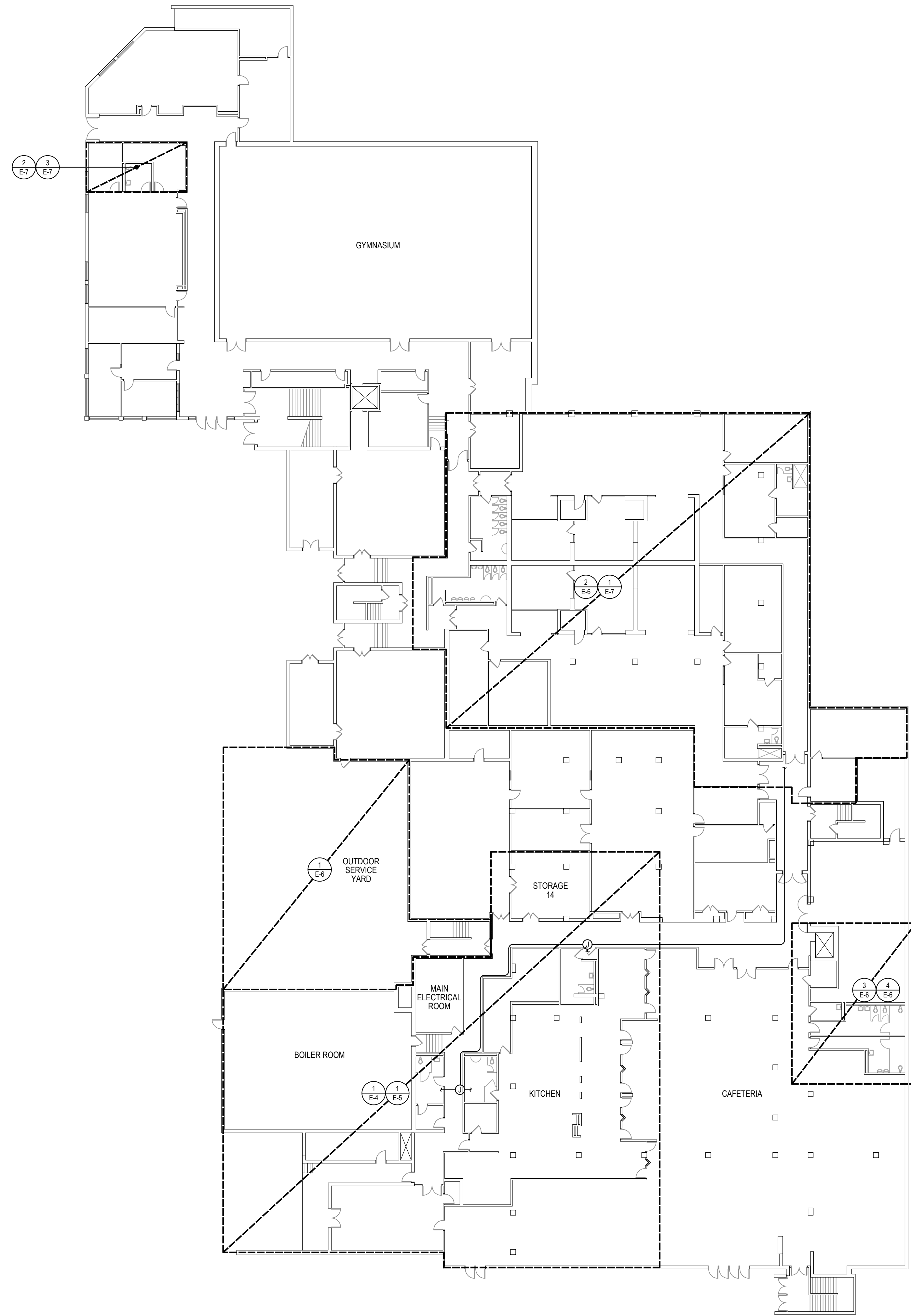
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**SYMBOLS LIST, ABBREVIATIONS AND DETAILS**

Sheet No  
**E-0**

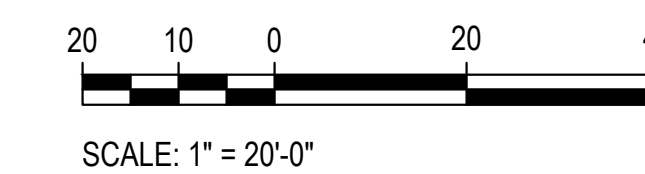


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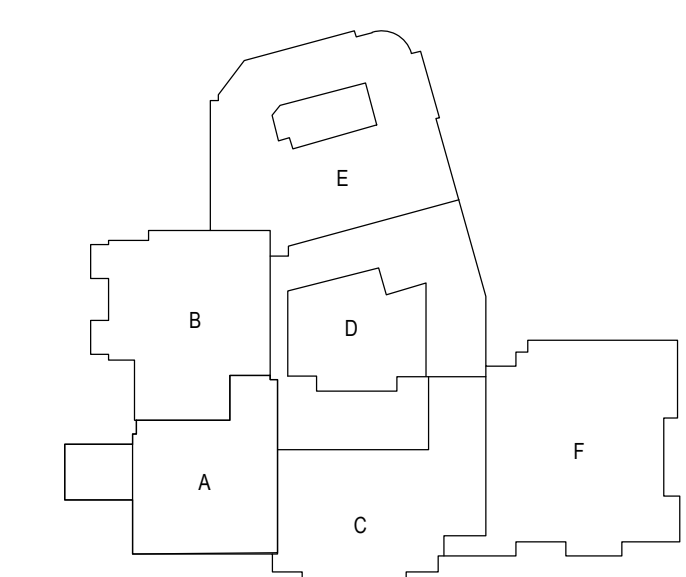
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**1**  
E-1  
**LOWER LEVEL PLAN**  
REFERENCE PLAN  
SCALE: 1" = 20'-0"



**KEY PLAN**



**GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT**  
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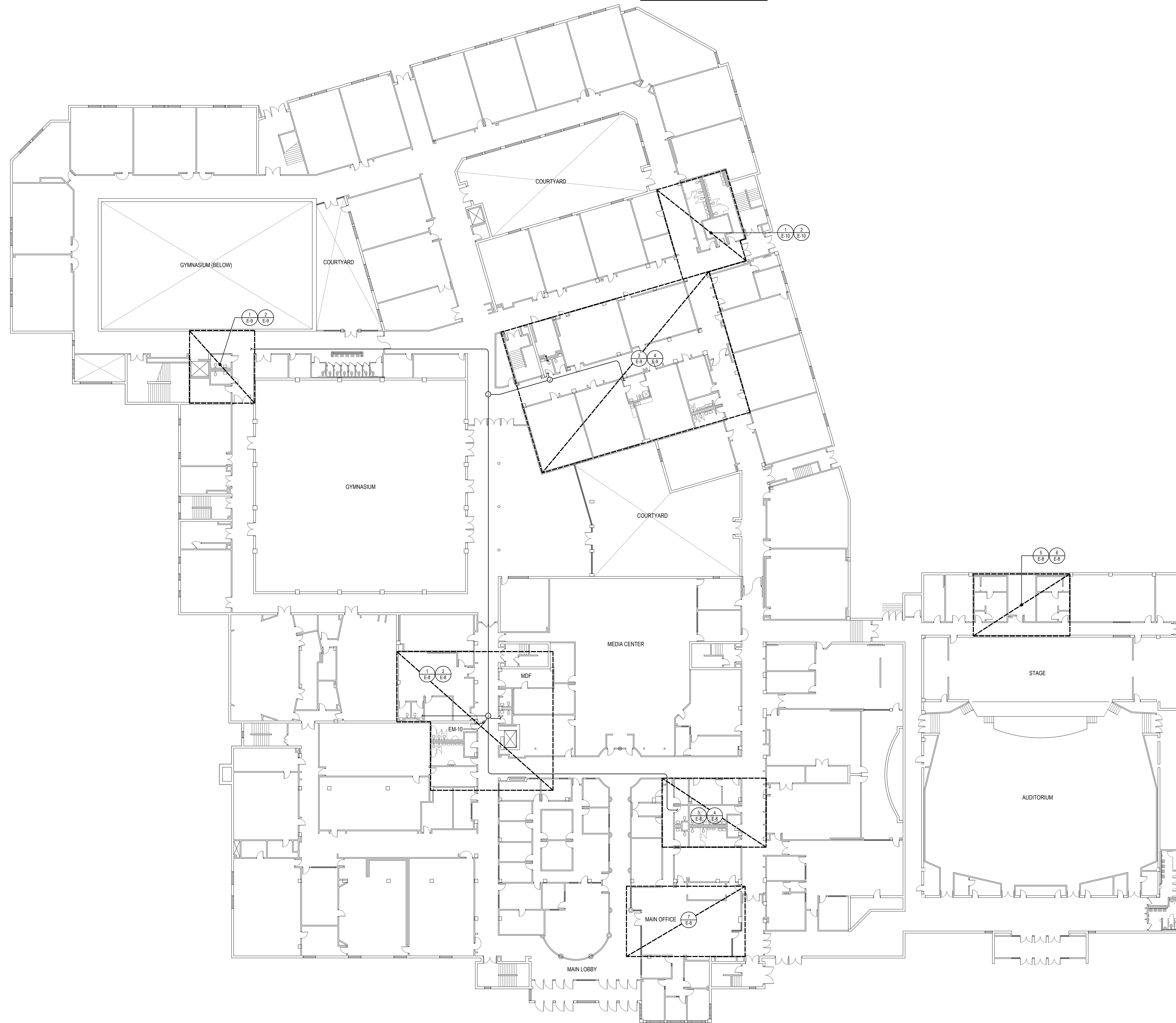
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Scale	AS NOTED
Project No	8047-24
Date	FEBRUARY 19, 2025

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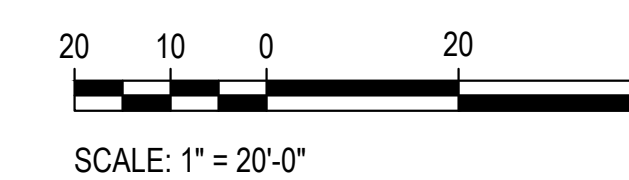
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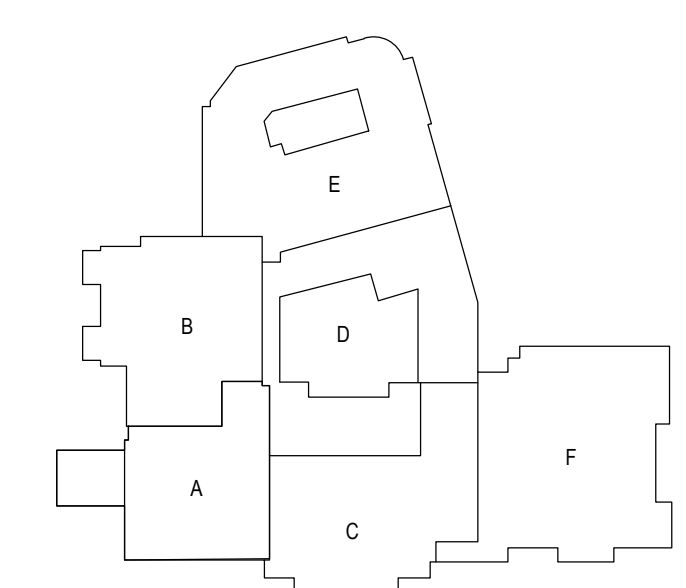
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1  
E-2  
**MAIN LEVEL  
REFERENCE PLAN**  
SCALE: 1" = 20'-0"



**KEY PLAN**



**GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT**  
**THOMAS S. WOOTTON HIGH SCHOOL**  
 2100 WOOTTON PARKWAY  
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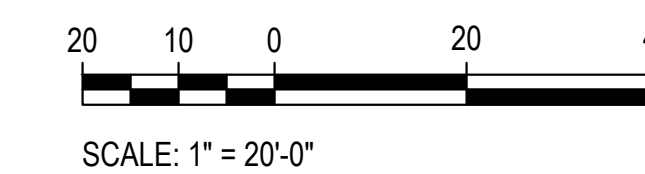
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**MAIN LEVEL  
 REFERENCE DRAWING**

Sheet No:  
**E-2**

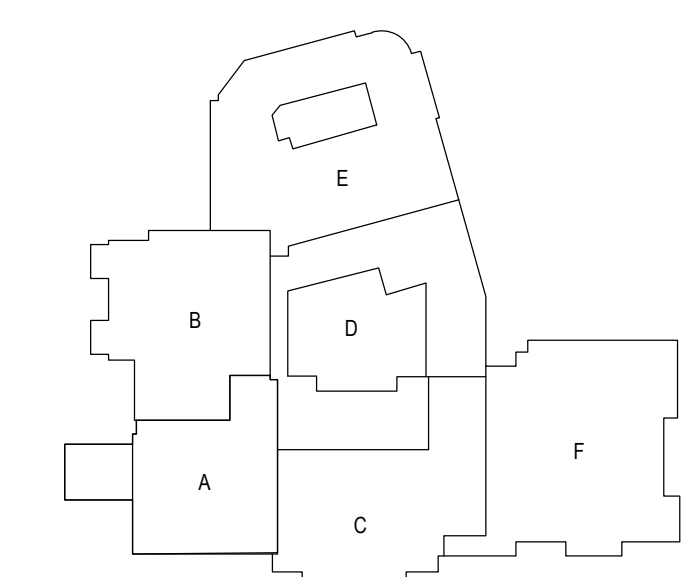




1  
E-3  
**UPPER LEVEL  
REFERENCE PLAN**  
SCALE: 1" = 20'-0"



**KEY PLAN**



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**GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT**  
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Drawing Title  
**UPPER LEVEL  
 REFERENCE DRAWING**

Sheet No:  
**E-3**



GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT

# THOMAS S. WOOTTON HIGH SCHOOL

2100 WOOTTON PARKWAY  
ROCKVILLE, MD 20850

MONTGOMERY COUNTY PUBLIC SCHOOLS



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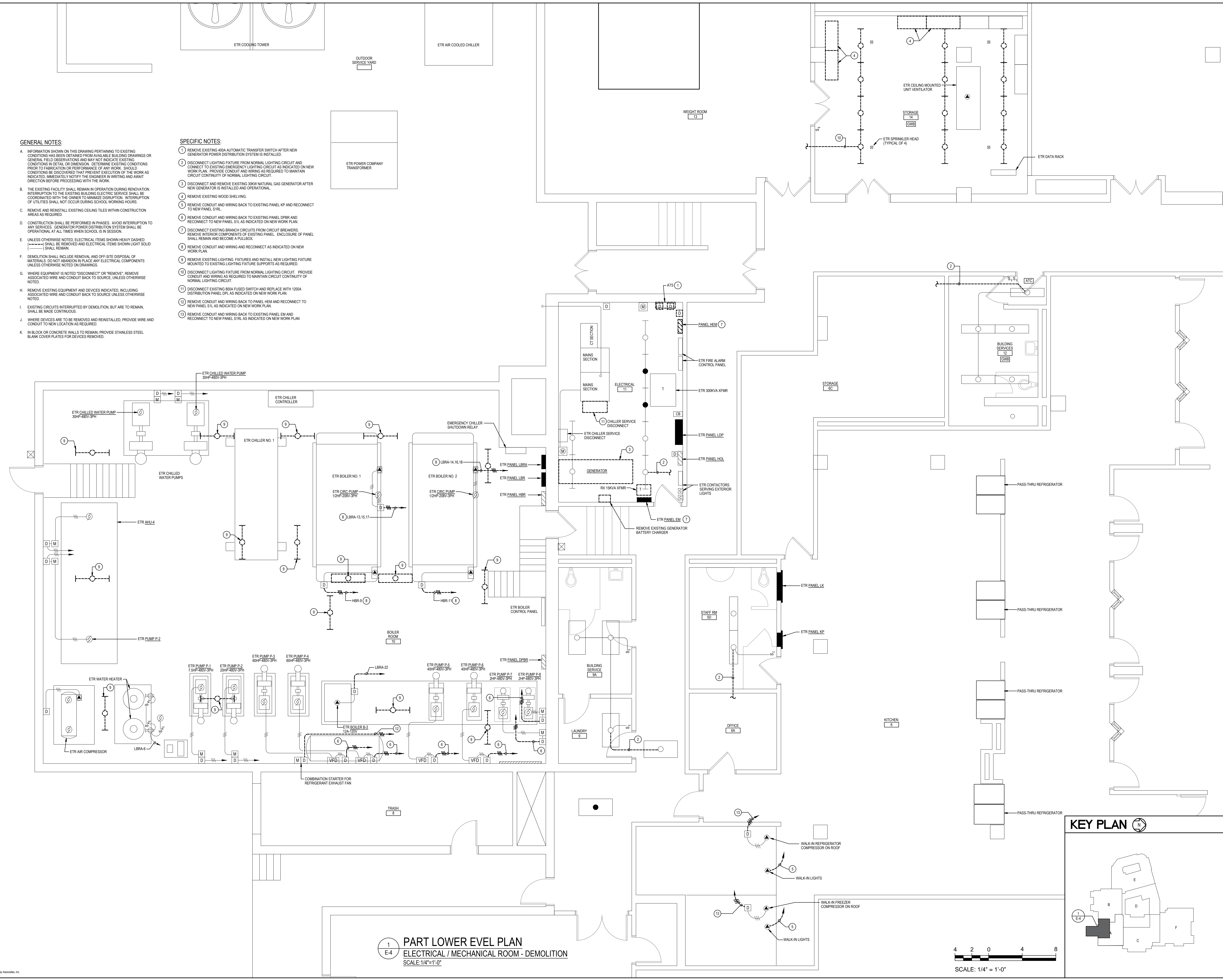
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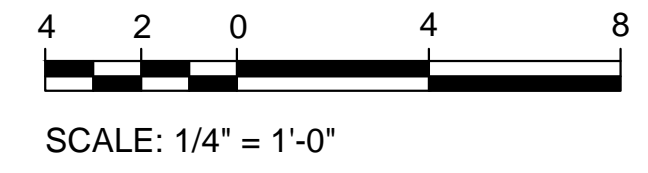
Tag	Description	Date
	BID DOCUMENTS	02/19/25

PSC No.	
Scale	AS NOTED
Project No.	8047-24
Date	FEBRUARY 19, 2025
Drawing Title	<b>PART LOWER LEVEL PLAN - DEMOLITION</b>
Sheet No.	<b>E-4</b>

- GENERAL NOTES:**
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  - 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.
  - REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
  - 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.
  - 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.
  - WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, PROVIDE WIRE AND CONDUIT TO NEW LOCATION AS REQUIRED.
  - IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR DEVICES REMOVED.
- SPECIFIC NOTES:**
- REMOVE EXISTING 400A AUTOMATIC TRANSFER SWITCH AFTER NEW GENERATOR POWER DISTRIBUTION SYSTEM IS INSTALLED.
  - DISCONNECT LIGHTING FIXTURE FROM NORMAL LIGHTING CIRCUIT AND CONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT AS INDICATED ON NEW WORK PLAN. PROVIDE CONDUIT AND WIRING AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY OF NORMAL LIGHTING CIRCUIT.
  - DISCONNECT AND REMOVE EXISTING 30KW NATURAL GAS GENERATOR AFTER NEW GENERATOR IS INSTALLED AND OPERATIONAL.
  - REMOVE EXISTING WOOD SHELVING.
  - REMOVE CONDUIT AND WIRING BACK TO EXISTING PANEL KP AND RECONNECT TO NEW PANEL S1RL.
  - REMOVE CONDUIT AND WIRING BACK TO EXISTING PANEL DPER AND RECONNECT TO NEW PANEL S1L AS INDICATED ON NEW WORK PLAN.
  - DISCONNECT EXISTING BRANCH CIRCUITS FROM CIRCUIT BREAKERS. REMOVE INTERIOR COMPONENTS OF EXISTING PANEL. ENCLOSURE OF PANEL SHALL REMAIN AND BECOME A PULLBOX.
  - REMOVE CONDUIT AND WIRING AND RECONNECT AS INDICATED ON NEW WORK PLAN.
  - REMOVE EXISTING LIGHTING FIXTURES AND INSTALL NEW LIGHTING FIXTURE MOUNTED TO EXISTING LIGHTING FIXTURE SUPPORTS AS REQUIRED.
  - DISCONNECT LIGHTING FIXTURE FROM NORMAL LIGHTING CIRCUIT. PROVIDE CONDUIT AND WIRING AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY OF NORMAL LIGHTING CIRCUIT.
  - DISCONNECT EXISTING 800A FUSED SWITCH AND REPLACE WITH 1200A DISTRIBUTION PANEL DPL AS INDICATED ON NEW WORK PLAN.
  - REMOVE CONDUIT AND WIRING BACK TO PANEL HEM AND RECONNECT TO NEW PANEL S1L AS INDICATED ON NEW WORK PLAN.
  - REMOVE CONDUIT AND WIRING BACK TO EXISTING PANEL EM AND RECONNECT TO NEW PANEL S1RL AS INDICATED ON NEW WORK PLAN.



**1**  
**E-4**  
**PART LOWER LEVEL PLAN**  
**ELECTRICAL / MECHANICAL ROOM - DEMOLITION**  
SCALE: 1/4" = 1'-0"





**GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT**  
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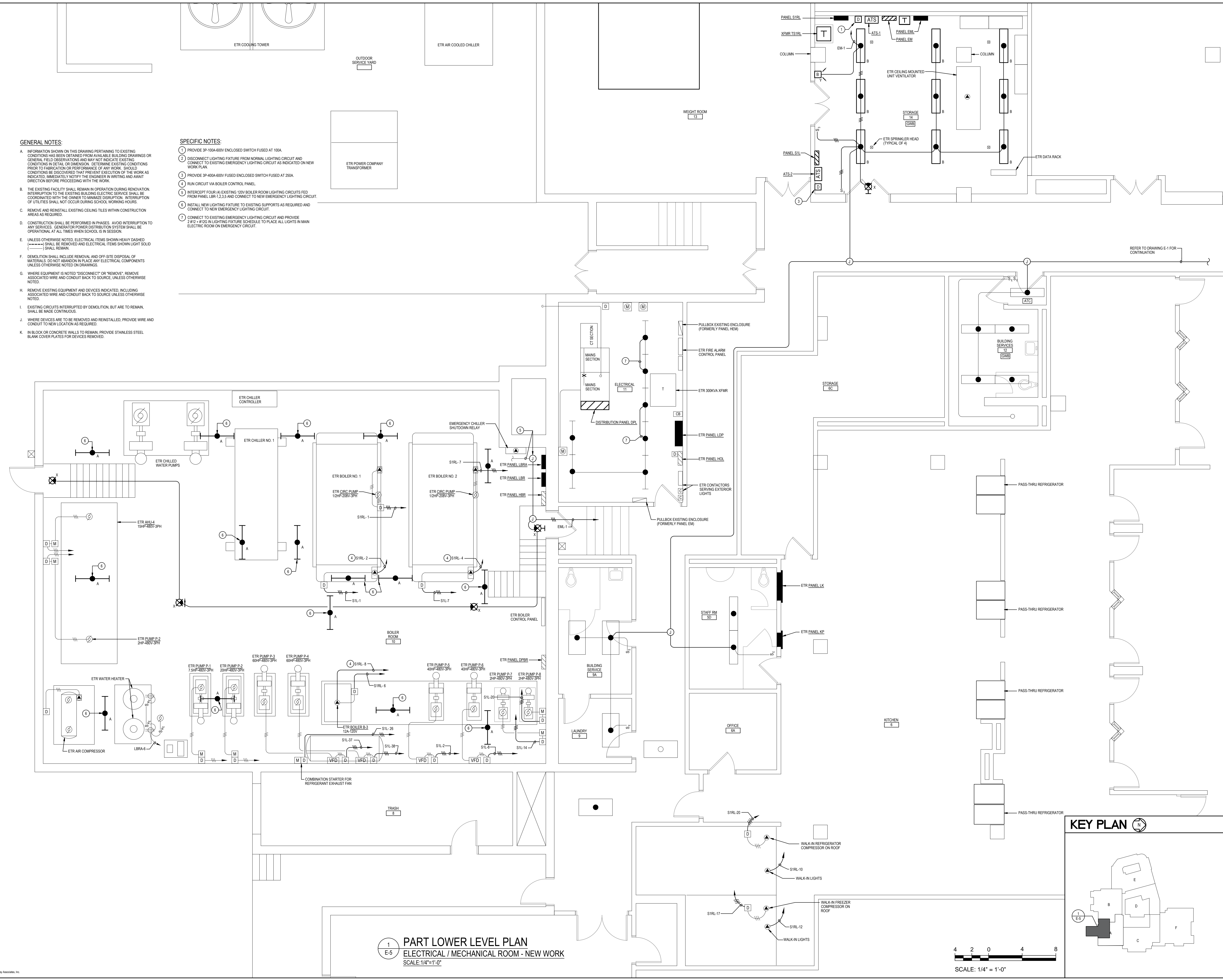
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Scale	AS NOTED
Project No	8047-24
Date	FEBRUARY 19, 2025

Drawing Title  
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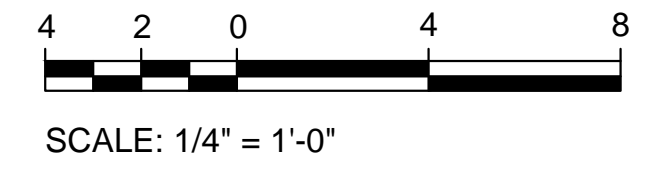
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  - THE EXISTING FACILITY SHALL REMAIN IN OPERATION DURING RENOVATION. INTERRUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION. INTERRUPTION OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORKING HOURS.
  - REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
  - 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.
  - 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.
  - WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, PROVIDE WIRE AND CONDUIT TO NEW LOCATION AS REQUIRED.
  - IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR DEVICES REMOVED.

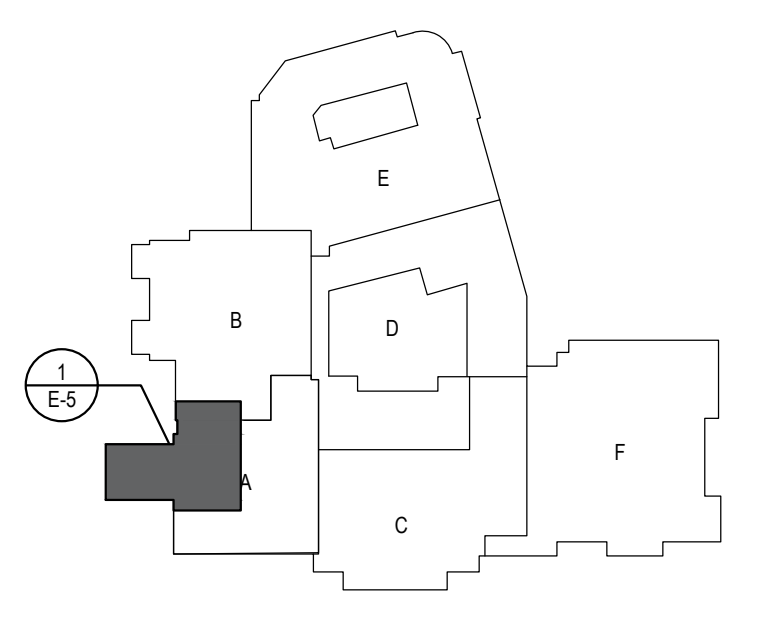
- SPECIFIC NOTES:**
- PROVIDE 3P-100A-600V ENCLOSED SWITCH FUSED AT 100A.
  - DISCONNECT LIGHTING FIXTURE FROM NORMAL LIGHTING CIRCUIT AND CONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT AS INDICATED ON NEW WORK PLAN.
  - PROVIDE 3P-400A-600V FUSED ENCLOSED SWITCH FUSED AT 250A.
  - RUN CIRCUIT VIA BOILER CONTROL PANEL.
  - INTERCEPT FOUR (4) EXISTING 120V BOILER ROOM LIGHTING CIRCUITS FED FROM PANEL LBR-1.2.3.5 AND CONNECT TO NEW EMERGENCY LIGHTING CIRCUIT.
  - INSTALL NEW LIGHTING FIXTURE TO EXISTING SUPPORTS AS REQUIRED AND CONNECT TO NEW EMERGENCY LIGHTING CIRCUIT.
  - CONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT AND PROVIDE 5'x12" x 4'x10" LIGHTING FIXTURE SCHEDULE TO PLACE ALL LIGHTS IN MAIN ELECTRIC ROOM ON EMERGENCY CIRCUIT.



**1**  
**E-5**  
**PART LOWER LEVEL PLAN**  
**ELECTRICAL / MECHANICAL ROOM - NEW WORK**  
 SCALE: 1/4" = 1'-0"



**KEY PLAN**





GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT

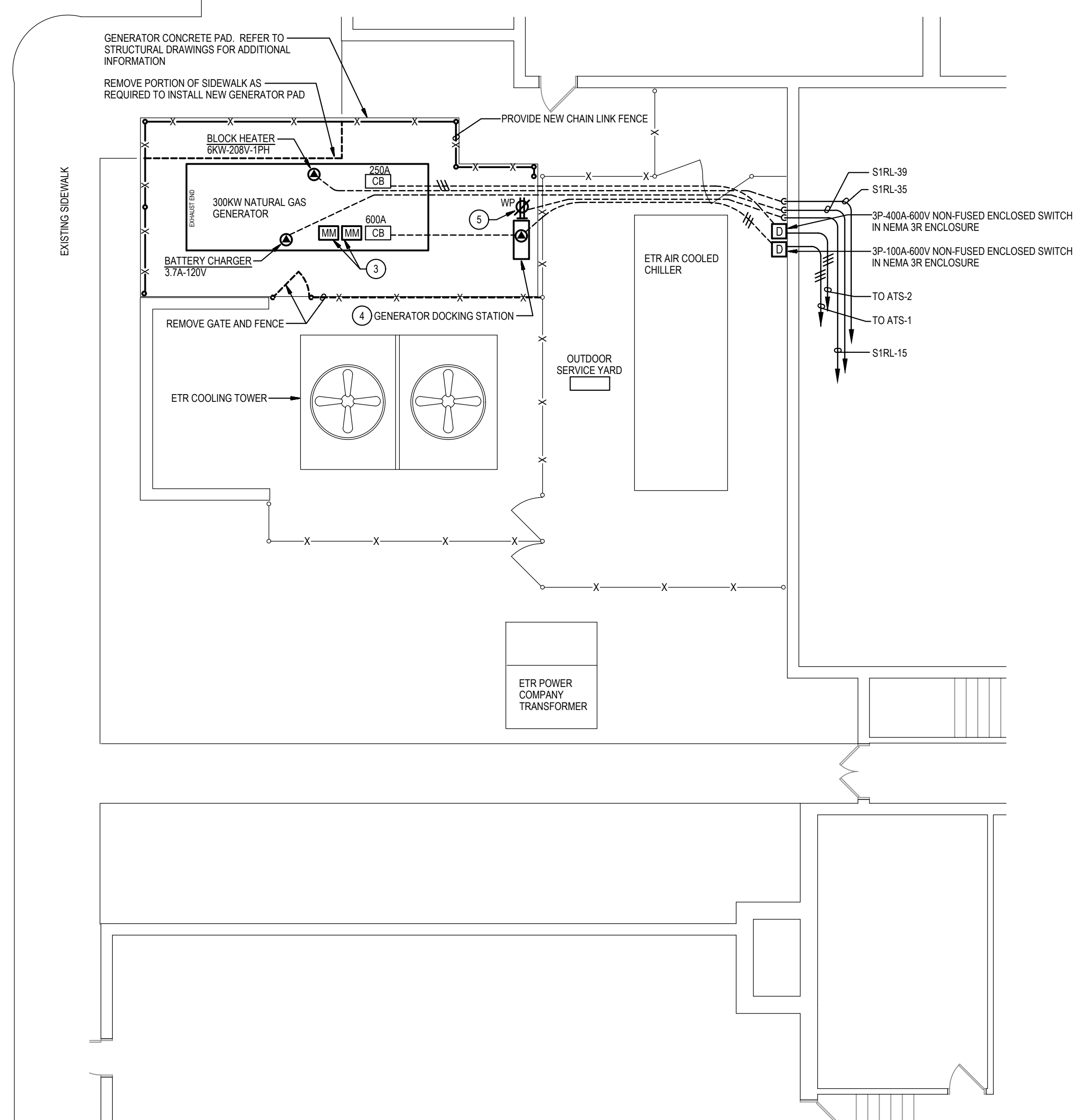
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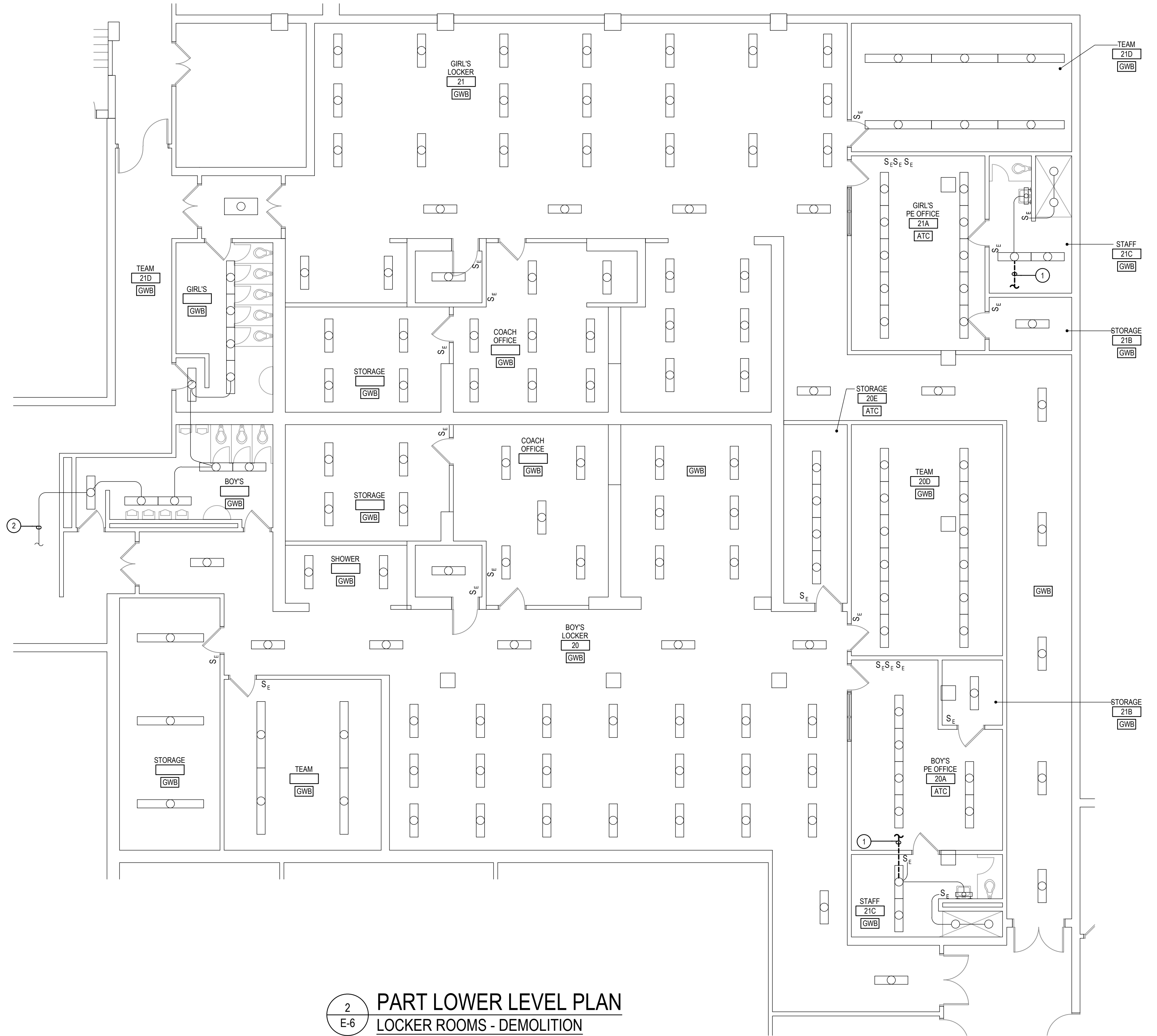
MONTGOMERY COUNTY PUBLIC SCHOOLS

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  - GENERAL LOCATIONS OF UNDERGROUND UTILITIES INDICATED ARE NOT TO BE ASSUMED TO BE ACCURATE OR COMPLETE. PRIOR TO EXCAVATING, FIELD CHECK AREAS WITH THE MOST ACCURATE INSTRUMENTS AVAILABLE, SUCH AS "FISHER" LAST PIPE AND CABLE LOCATORS.
  - NOTIFY MMS UTILITY (1-800-257-7777) AT LEAST FIVE (5) WORKING DAYS PRIOR TO STARTING SITE WORK.
  - 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.
  - REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
  - 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.
  - UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (---) SHALL REMAIN.
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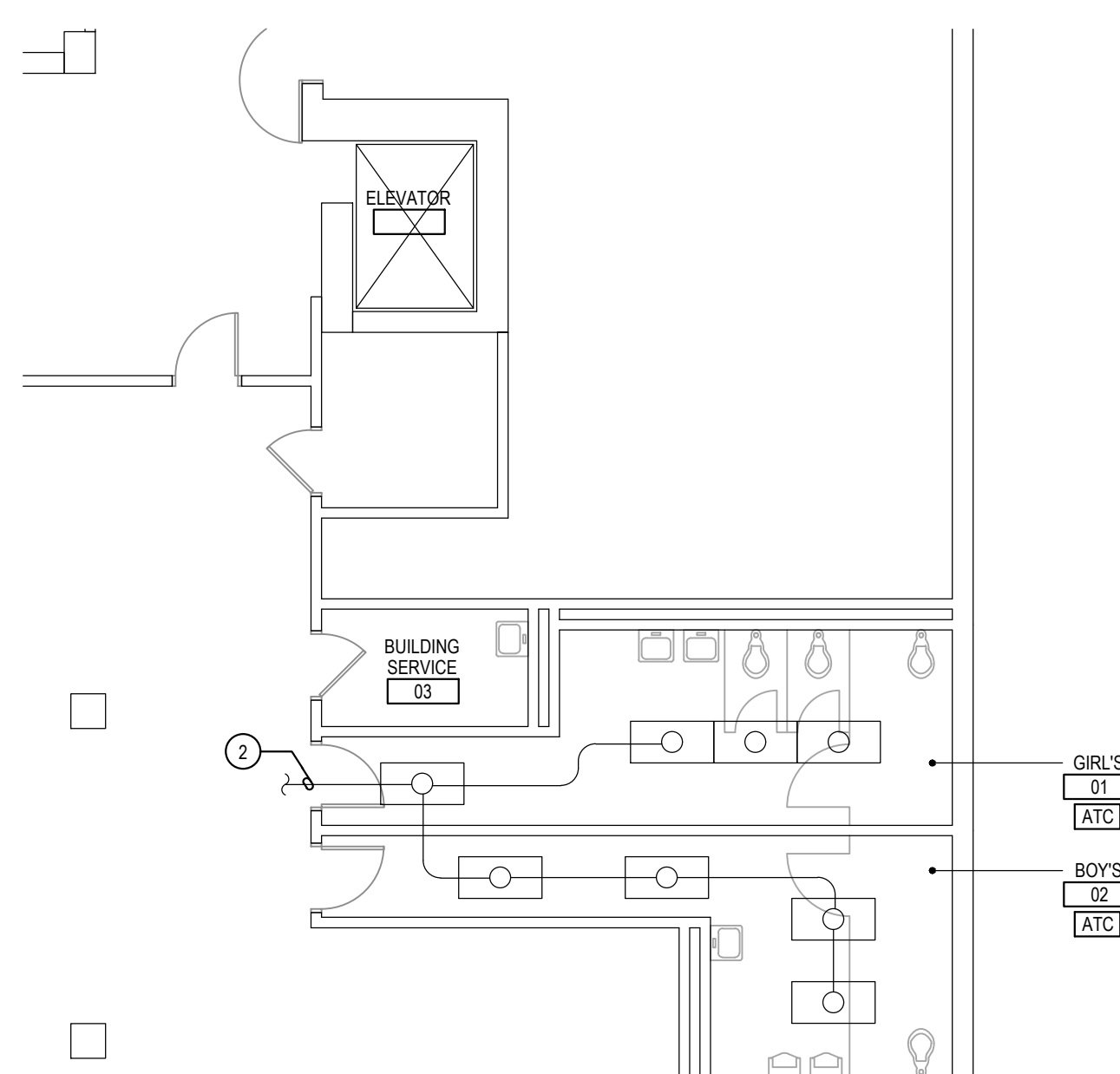
- SPECIFIC NOTES:**
- DISCONNECT LIGHTING FIXTURE FROM NORMAL LIGHTING CIRCUIT AND CONNECT TO EMERGENCY LIGHTING CIRCUIT AS INDICATED ON NEW WORK PLAN. PROVIDE CONDUIT AND WIRING AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY OF NORMAL LIGHTING CIRCUIT.
  - EXISTING CONDUIT AND WIRING FED FROM LIGHTING RELAY ON MAIN LEVEL. CONNECT EXISTING NORMAL LIGHTING CIRCUIT AND NEW EMERGENCY LIGHTING CIRCUIT TO NEW GENERATOR TRANSFER DEVICE LOCATED IN STORAGE 114 ON MAIN LEVEL AS SHOWN ON PART PLAN 2E-8.
  - PROVIDE FIRE ALARM WIRING IN CONDUIT AND CONNECT MONITOR MODULES TO EXISTING FIRE DETECTION AND ALARM SYSTEM FOR "GENERATOR BURN" AND "GENERATOR FAIL". MAKE CONNECTIONS NECESSARY FOR COMPLETE INSTALLATION. RE-PROGRAM FIRE ALARM CONTROL PANEL AS REQUIRED.
  - PROVIDE FREESTANDING SUPPORTS. UTILIZE GALVANIZED STEEL FRAMING CHANNELS TO SUPPORT GENERATOR DOCKING STATION.
  - MOUNT RECEPTACLE TO FRAMING CHANNEL SUPPORTS FOR GENERATOR DOCKING STATION.



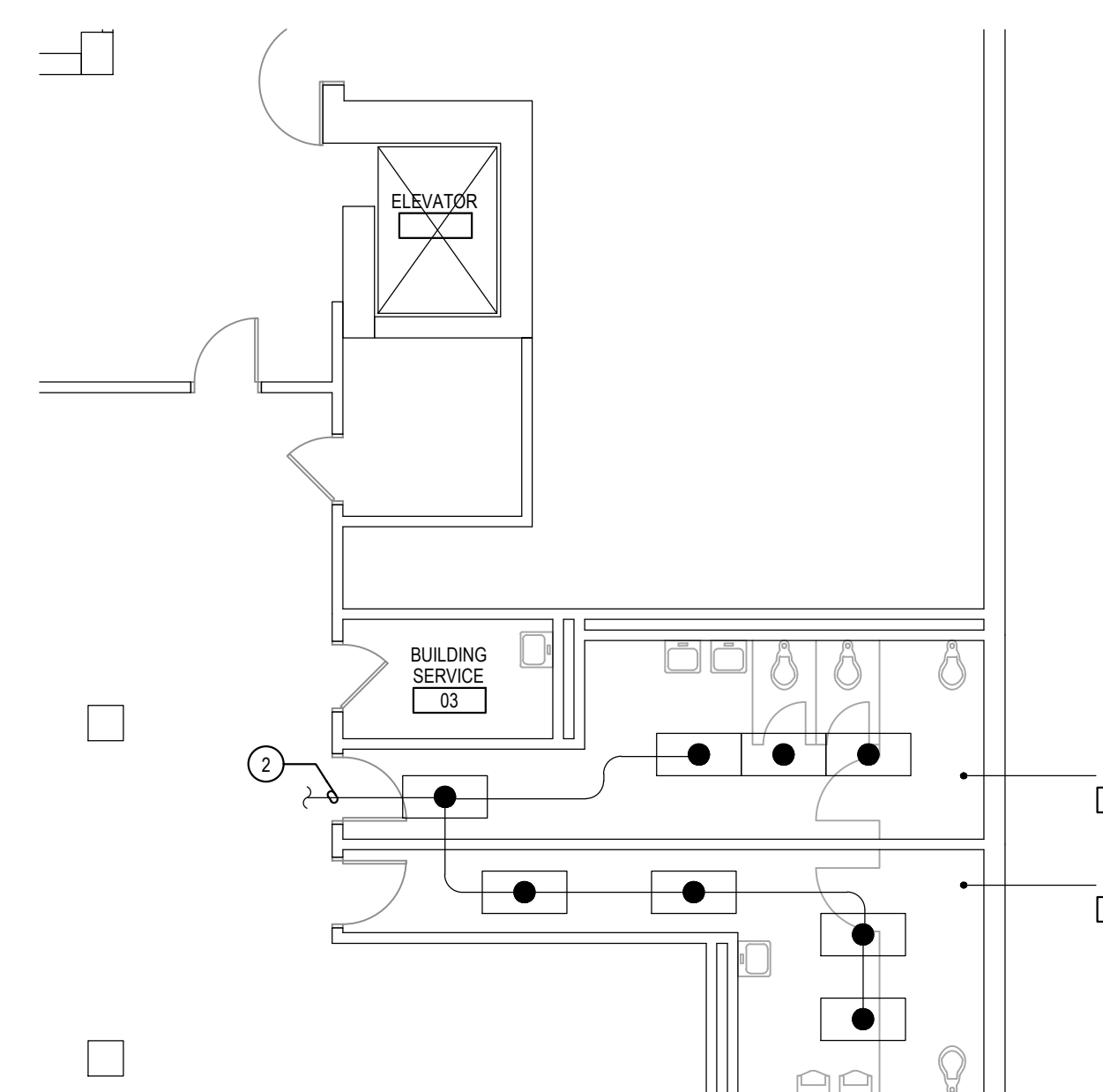
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E-6  
**PART LOWER LEVEL PLAN**  
SERVICE YARD - NEW WORK  
SCALE: 1/8"=1'-0"



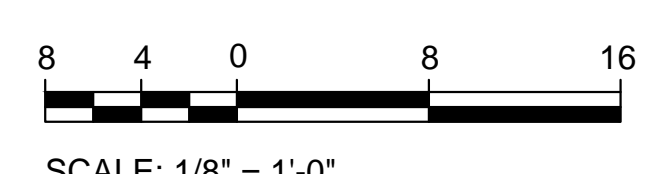
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E-6  
**PART LOWER LEVEL PLAN**  
LOCKER ROOMS - DEMOLITION  
SCALE: 1/8"=1'-0"



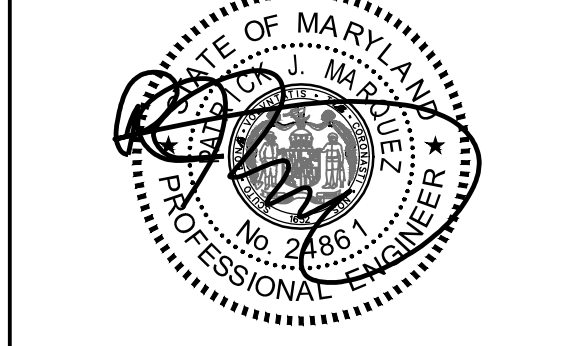
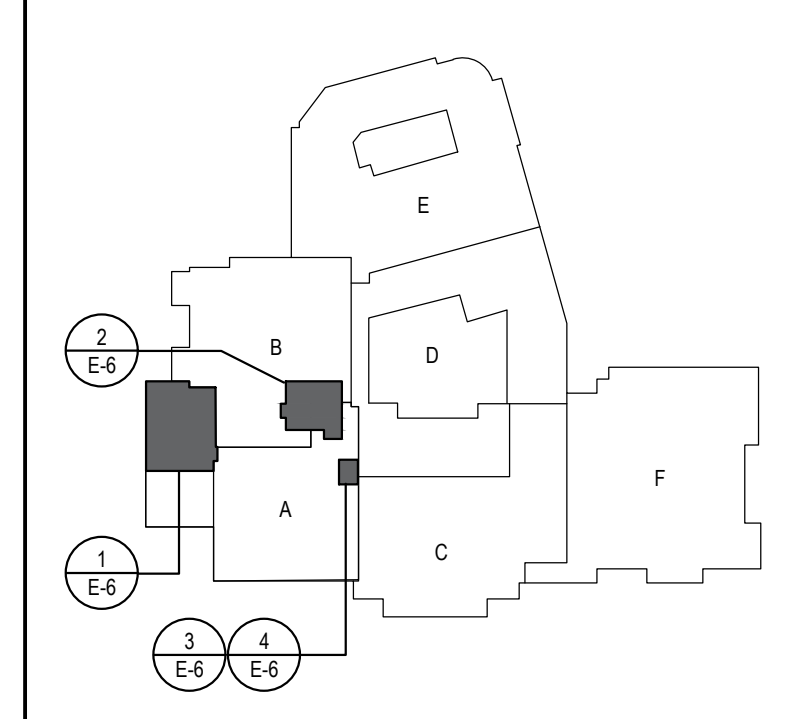
**3**  
E-6  
**PART LOWER LEVEL PLAN**  
TOILET ROOMS - DEMOLITION  
SCALE: 1/8"=1'-0"



**4**  
E-6  
**PART LOWER LEVEL PLAN**  
TOILET ROOMS - NEW WORK  
SCALE: 1/8"=1'-0"



**KEY PLAN**



Professional Certification.  
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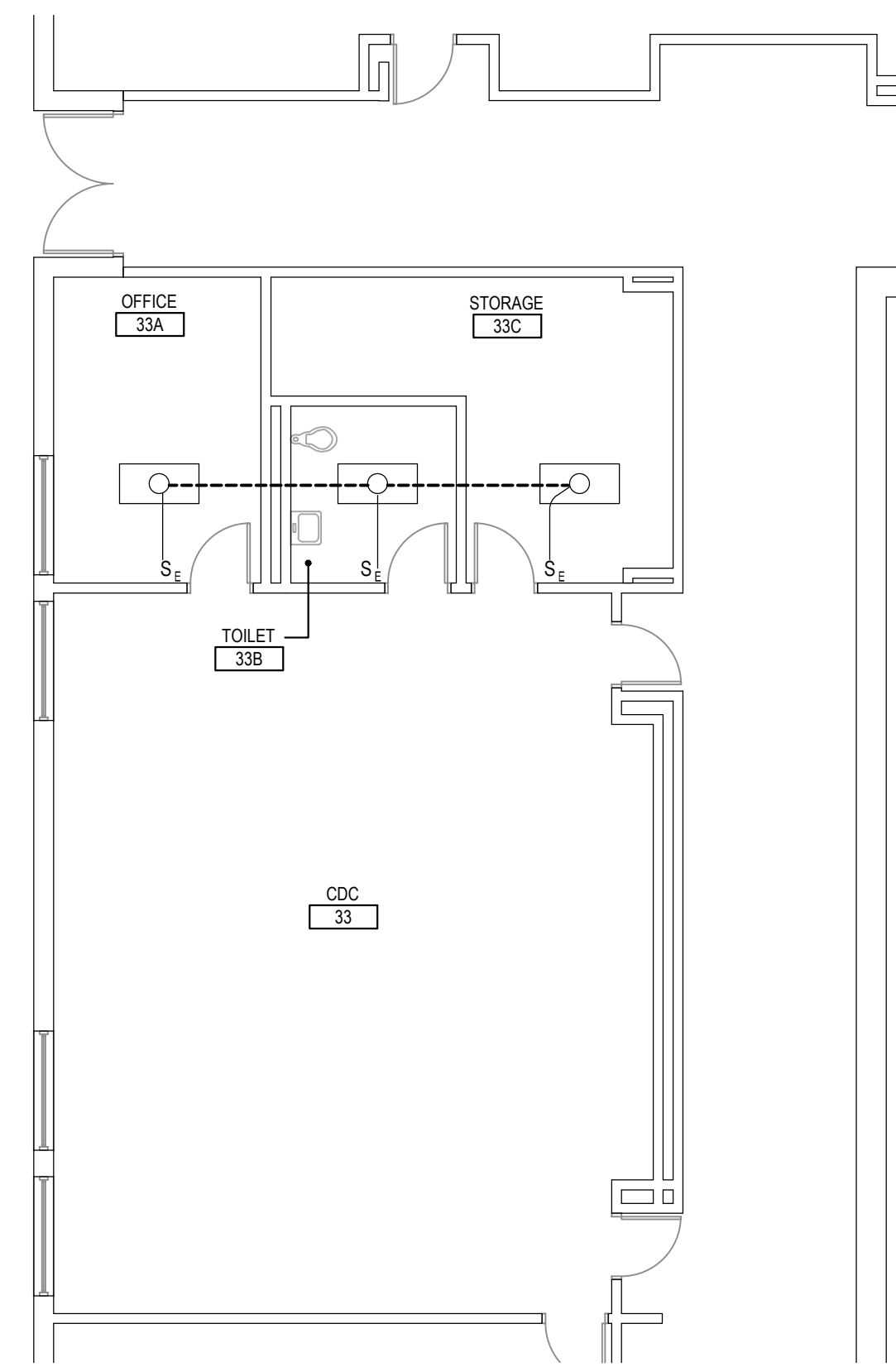
Tag	Description	Date
	BID DOCUMENTS	02/19/25

PSC No.	
Scale	AS NOTED
Project No.	8047-24
Date	FEBRUARY 19, 2025

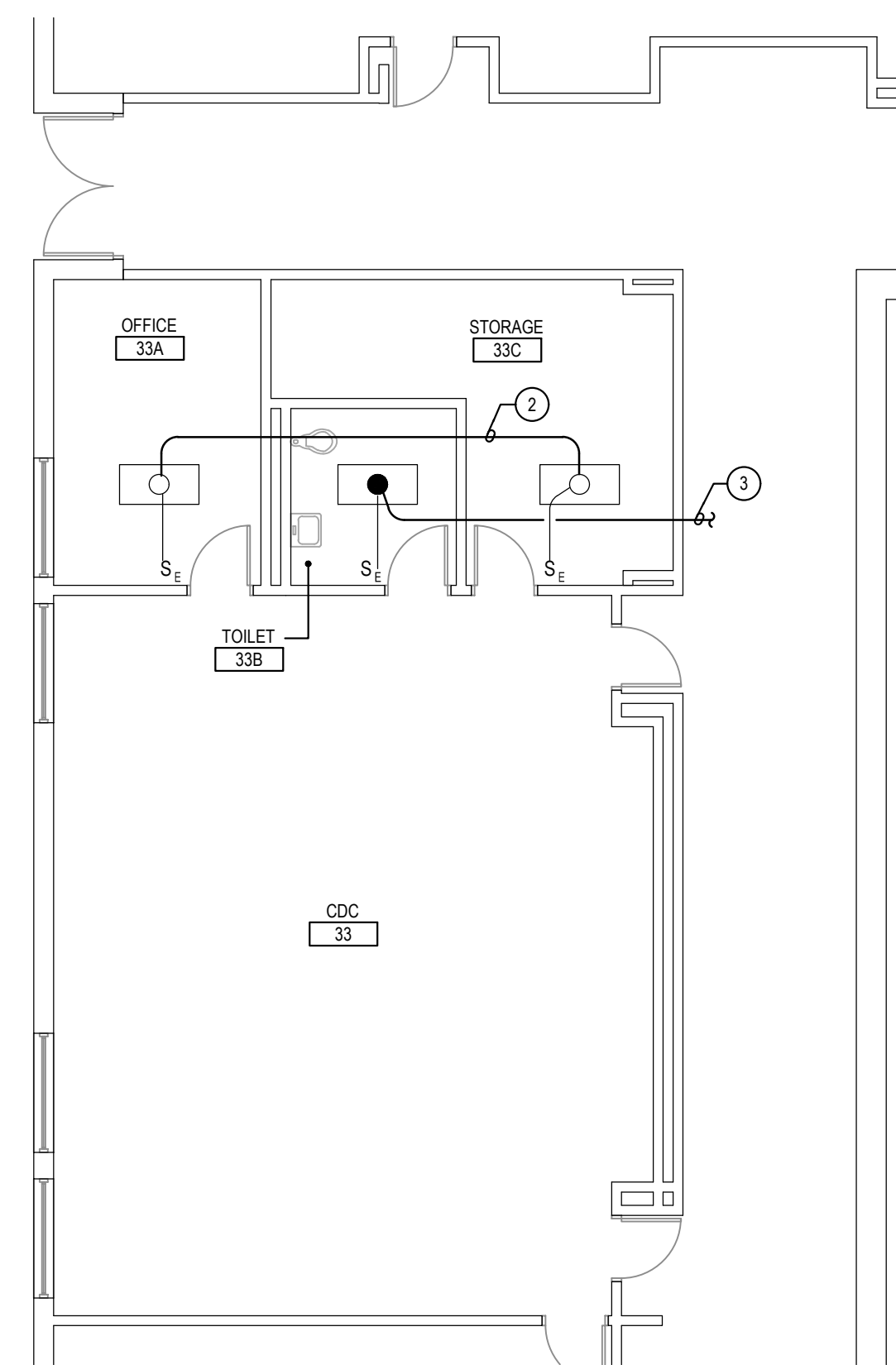
Drawing Title  
**PART LOWER LEVEL PLANS - DEMOLITION AND NEW WORK**

Sheet No.  
**E-6**

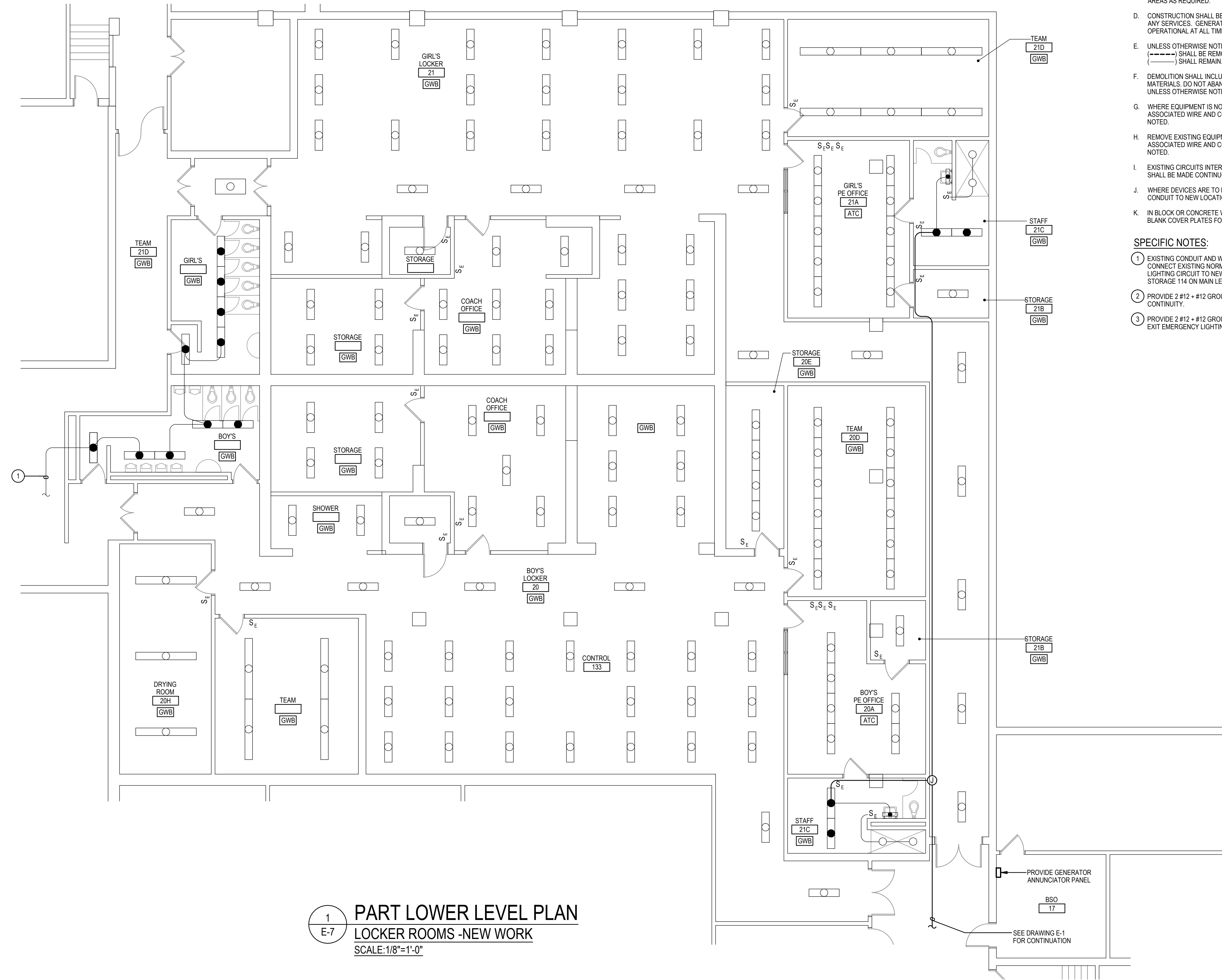




2  
E-7  
PART LOWER LEVEL PLAN  
TOILET ROOM - DEMOLITION  
SCALE: 1/8" = 1'-0"



3  
E-7  
PART LOWER LEVEL PLAN  
TOILET ROOM - NEW WORK  
SCALE: 1/8" = 1'-0"



1  
E-7  
PART LOWER LEVEL PLAN  
LOCKER ROOMS - NEW WORK  
SCALE: 1/8" = 1'-0"

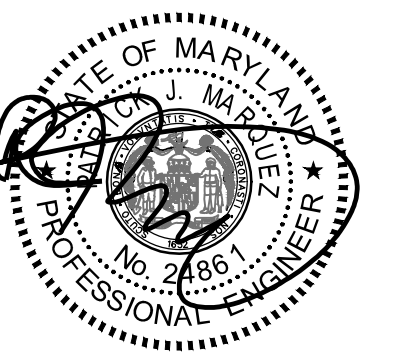
**GENERAL NOTES:**

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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.
- 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.
- H. REMOVE EXISTING EQUIPMENT AND DEVICES INDICATED, INCLUDING ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.
- 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 EXISTING CONDUIT AND WIRING FED FROM LIGHTING RELAY ON MAIN LEVEL. CONNECT EXISTING NORMAL LIGHTING CIRCUIT AND NEW EMERGENCY LIGHTING CIRCUIT TO NEW GENERATOR TRANSFER DEVICE LOCATED IN STORAGE 114 ON MAIN LEVEL AS SHOWN ON PART PLAN 2E-8.
- 2 PROVIDE 2 #12 - #12 GROUND IN 3/4" CONDUIT TO PROVIDE CIRCUIT CONTINUITY.
- 3 PROVIDE 2 #12 - #12 GROUND IN 3/4" CONDUIT AND CONNECT TO EXISTING EXIT EMERGENCY LIGHTING CIRCUIT.

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT  
**THOMAS S. WOOTTON HIGH SCHOOL**  
2100 WOOTTON PARKWAY  
ROCKVILLE, MD 20850  
MONTGOMERY COUNTY PUBLIC SCHOOLS



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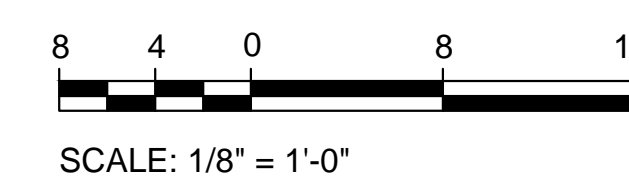
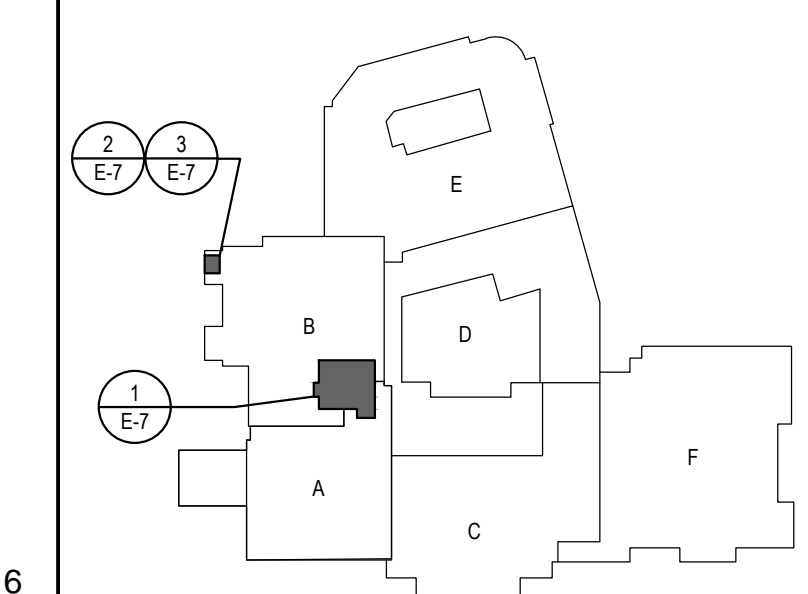
Tag	Description	Date
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PSC No	
Scale	AS NOTED
Project No	8047-24
Date	FEBRUARY 19, 2025

Drawing Title  
**PART LOWER LEVEL PLANS - DEMOLITION AND NEW WORK**

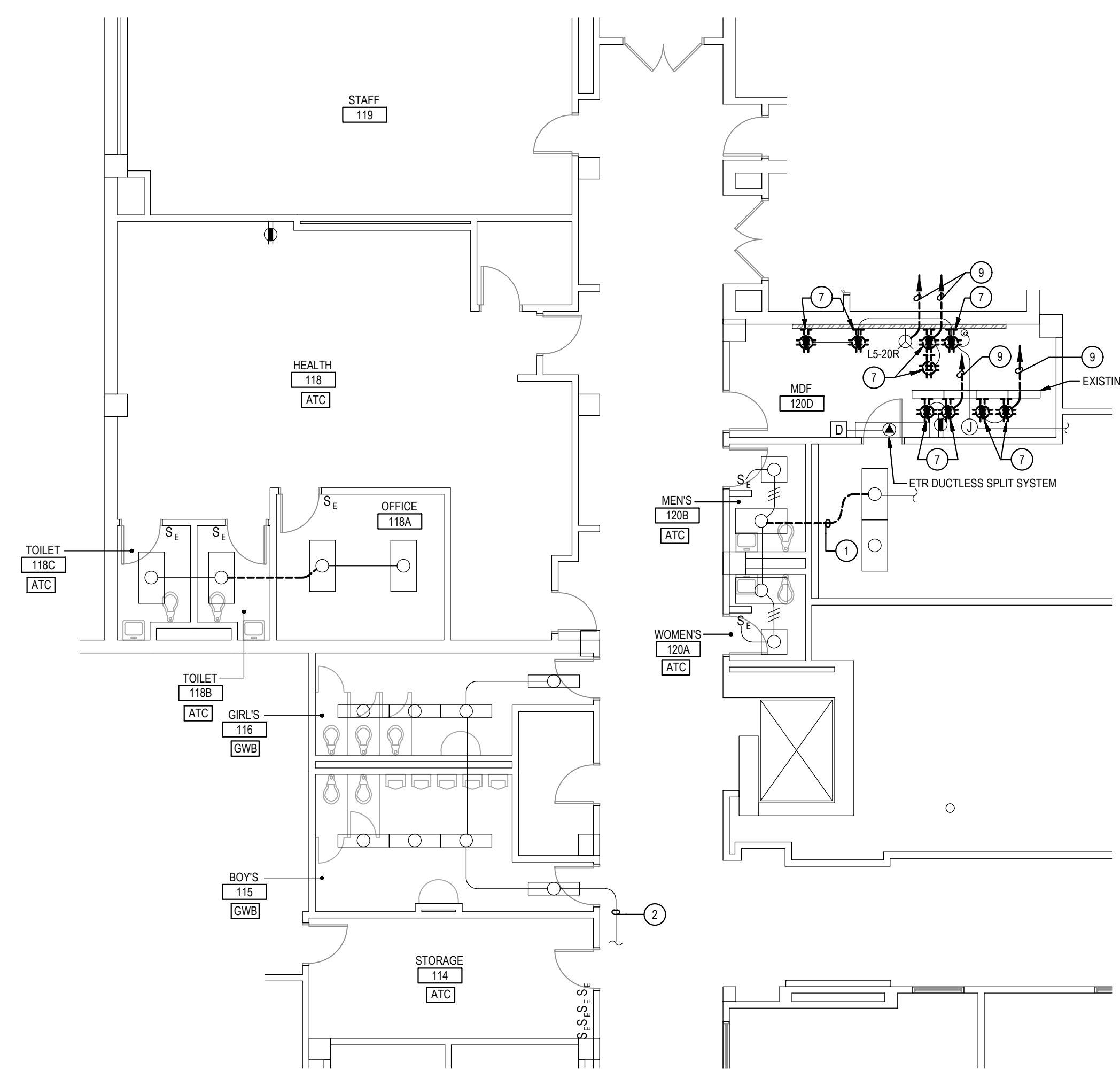
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**E-7**

**KEY PLAN**

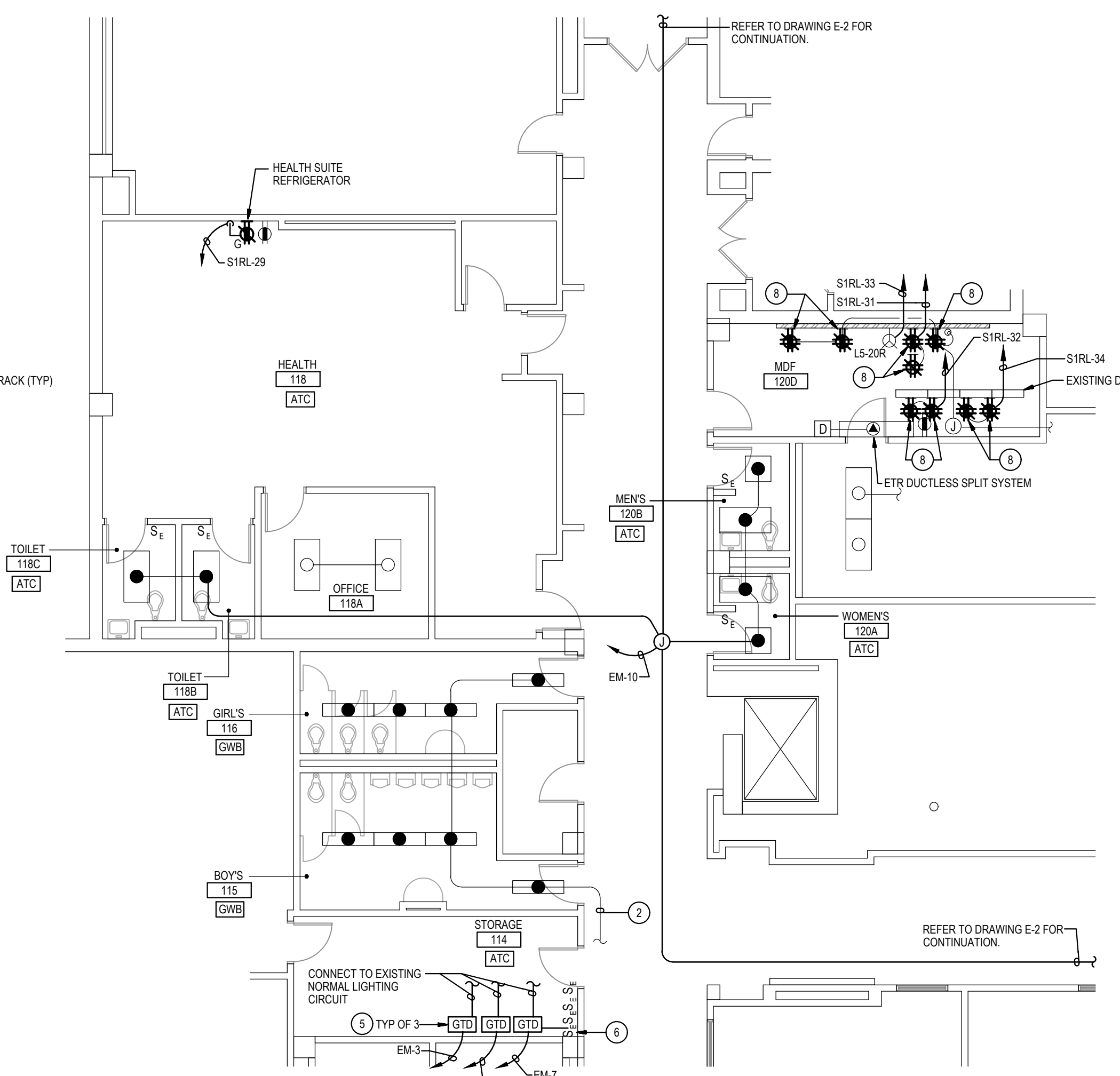




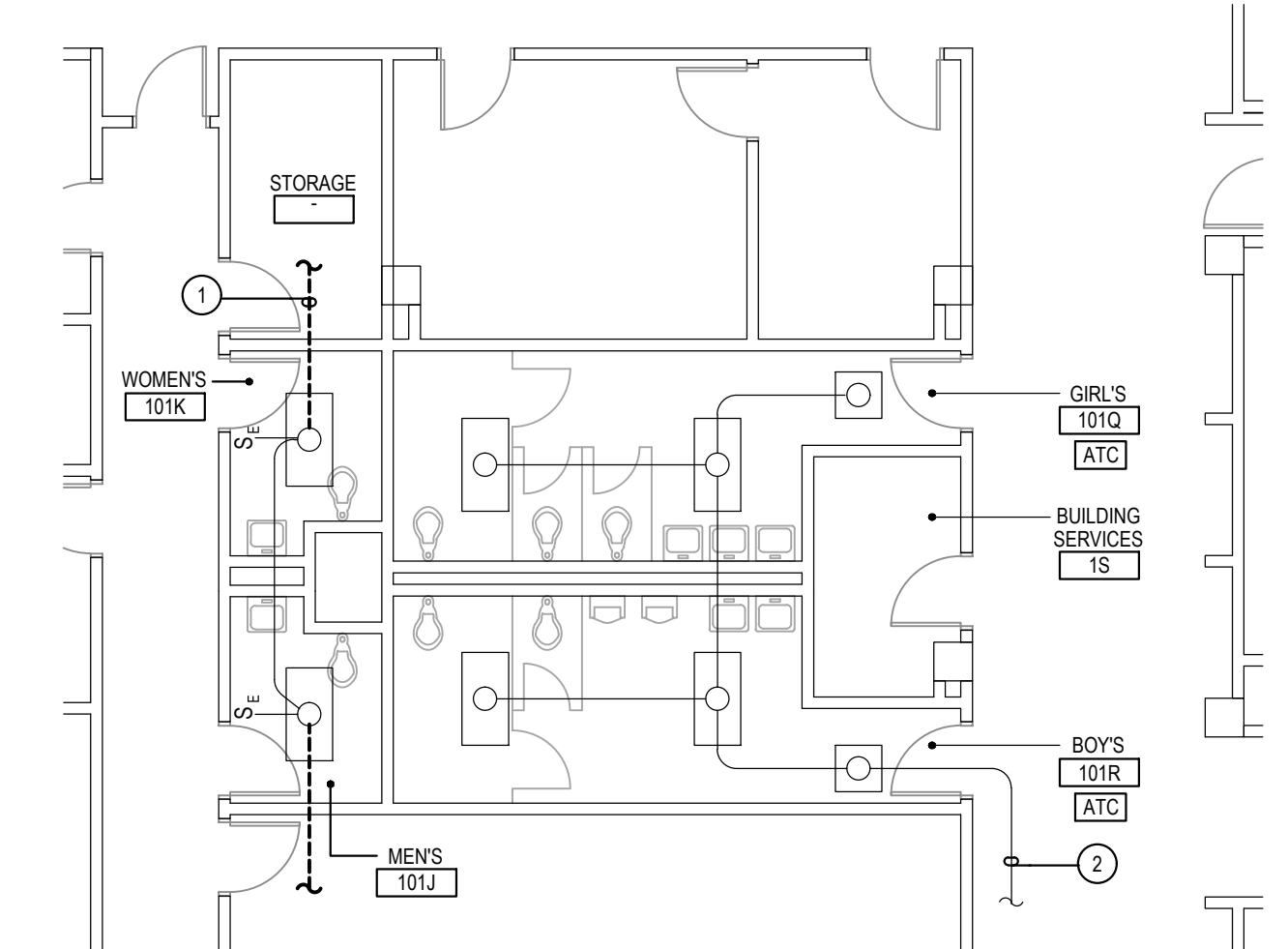
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  - THE EXISTING FACILITY SHALL REMAIN IN OPERATION DURING DEMOLITION. INTERRUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION. INTERRUPTION OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORKING HOURS.
  - REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
  - 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.
  - 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.
  - WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, PROVIDE WIRE AND CONDUIT TO NEW LOCATION AS REQUIRED.
  - IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR DEVICES REMOVED.
- SPECIFIC NOTES:**
- DISCONNECT LIGHTING FIXTURE FROM NORMAL LIGHTING CIRCUIT AND CONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT AS INDICATED ON NEW WORK PLAN. PROVIDE CONDUIT AND WIRING AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY OF NORMAL LIGHTING CIRCUIT.
  - EXISTING CONDUIT AND WIRING FED FROM LIGHTING RELAY ON MAIN LEVEL. CONNECT EXISTING NORMAL LIGHTING CIRCUIT AND NEW EMERGENCY LIGHTING CIRCUIT TO NEW GENERATOR TRANSFER DEVICE LOCATED IN STORAGE 114 ON MAIN LEVEL, AS SHOWN ON PART PLAN E-8.
  - PROVIDE 2 #12 - #12 GROUND IN 3/4" CONDUIT TO PROVIDE CIRCUIT CONTINUITY.
  - PROVIDE 2 #12 - #12 GROUND IN 3/4" CONDUIT AND CONNECT TO EXISTING EXIT EMERGENCY LIGHTING CIRCUIT.
  - PROVIDE GENERATOR TRANSFER DEVICE AND CONNECT TO EXISTING NORMAL LIGHTING CIRCUIT AND NEW EMERGENCY LIGHTING CIRCUIT.
  - PROVIDE MOMENTARY SWITCH SERVING EXISTING GROUP TOILET ROOMS ON LOWER LEVEL, MAIN LEVEL AND UPPER LEVEL.
  - REMOVE EXISTING BLACK QUAD RECEPTACLES AND REPLACE WITH RED RECEPTACLES AS INDICATED ON NEW WORK PLAN.
  - PROVIDE RED QUAD RECEPTACLES AND LABEL EXISTING COVER PLATE WITH RECEPTACLE CIRCUIT NUMBER.
  - DISCONNECT AND REMOVE CONDUIT AND WIRING BACK TO SOURCE AND CONNECT TO NEW GENERATOR CIRCUIT AS INDICATED ON NEW WORK PLAN.



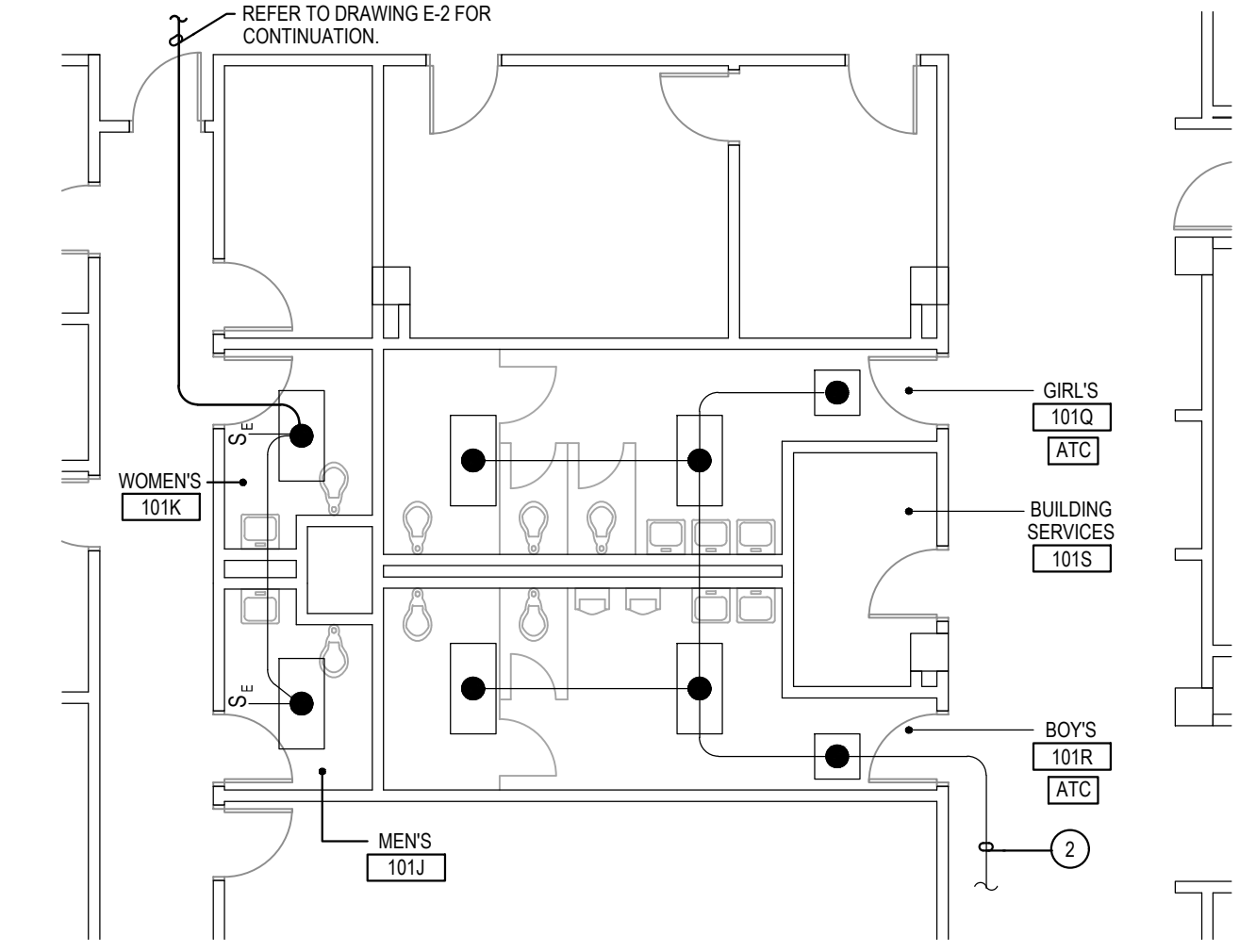
**1 PART MAIN LEVEL PLAN**  
TOILET ROOMS AND MDF ROOM - DEMOLITION  
SCALE: 1/8"=1'-0"



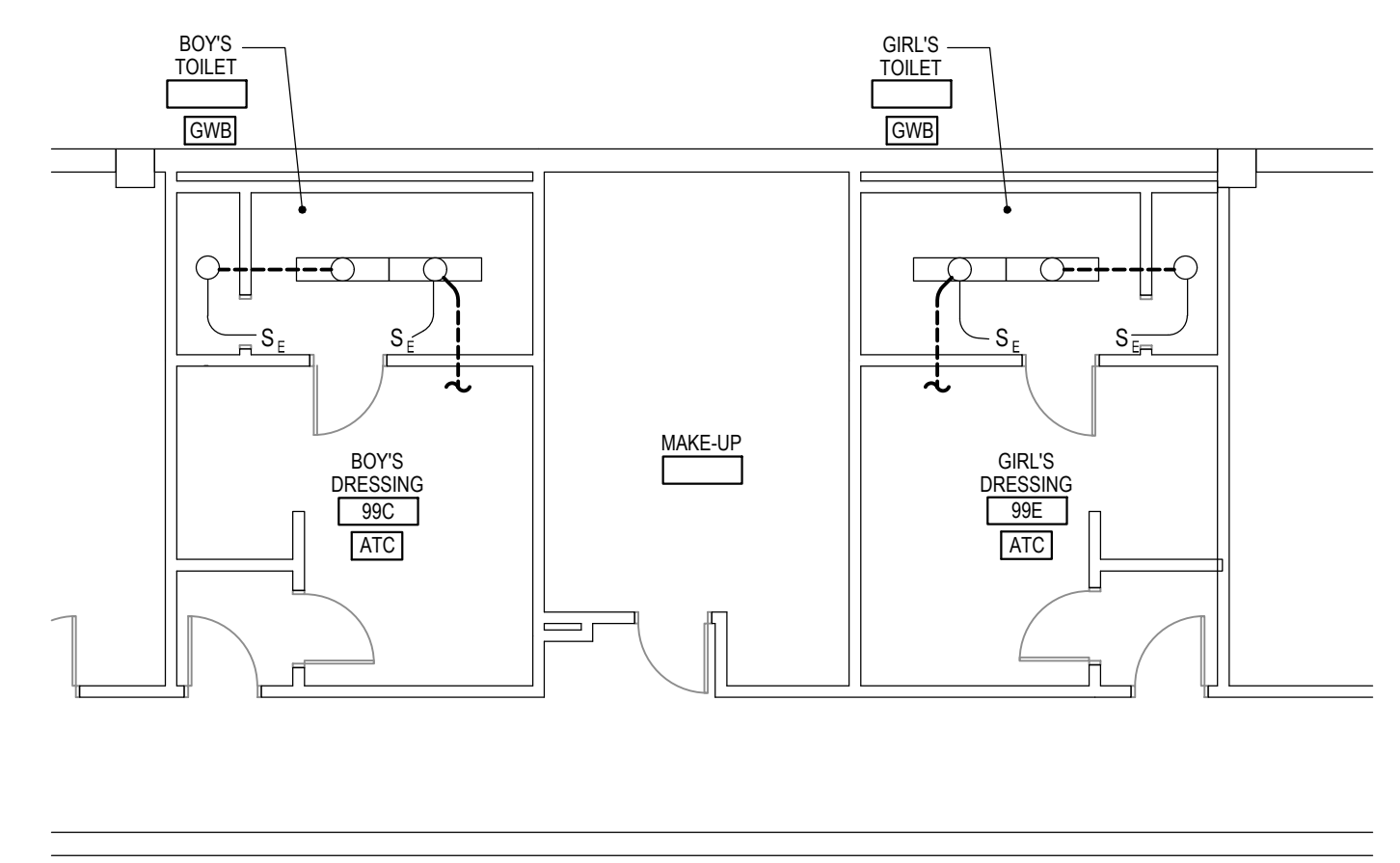
**2 PART MAIN LEVEL PLAN**  
TOILET ROOMS AND MDF ROOM - NEW WORK  
SCALE: 1/8"=1'-0"



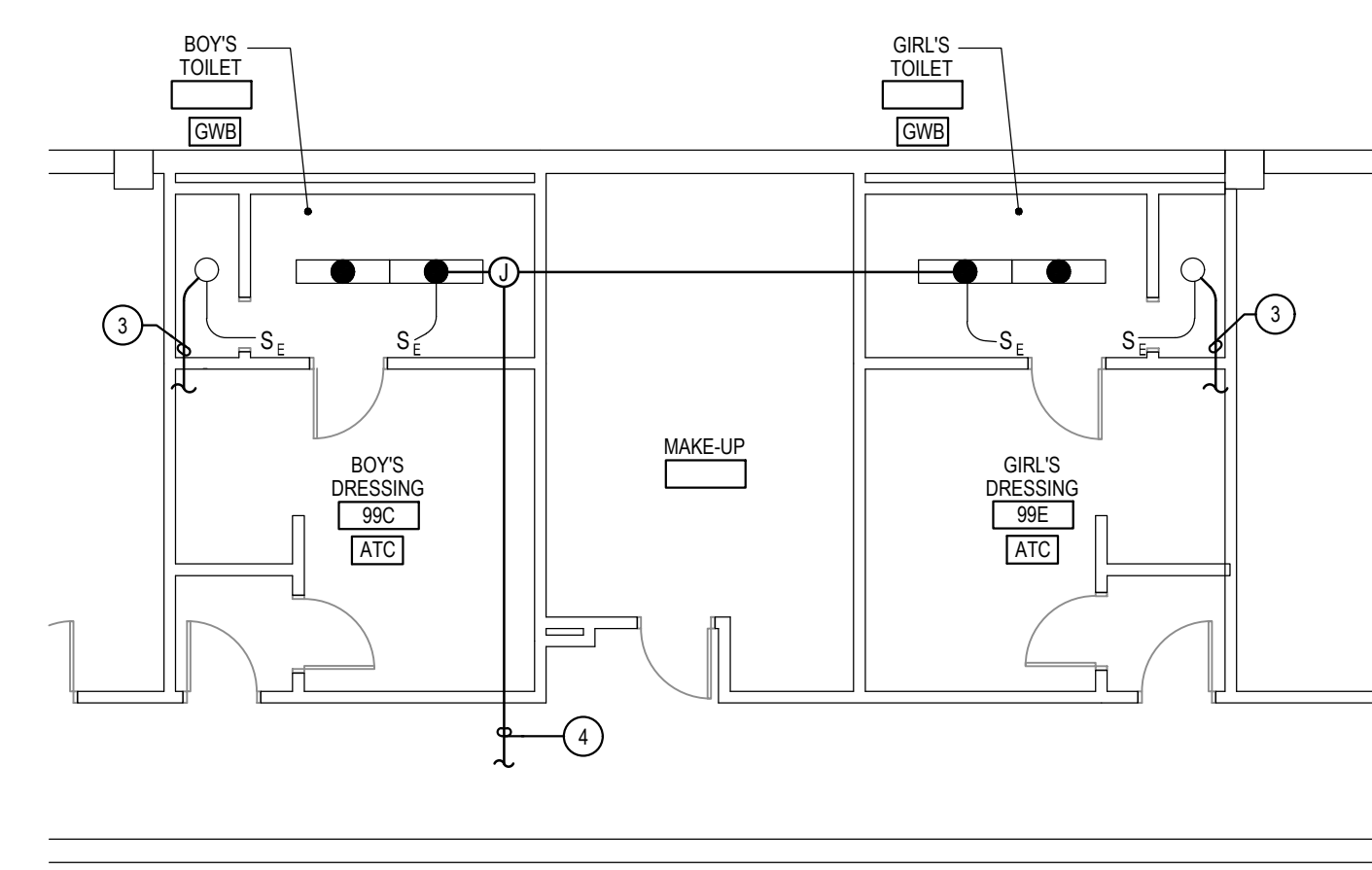
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TOILET ROOMS - DEMOLITION  
SCALE: 1/8"=1'-0"



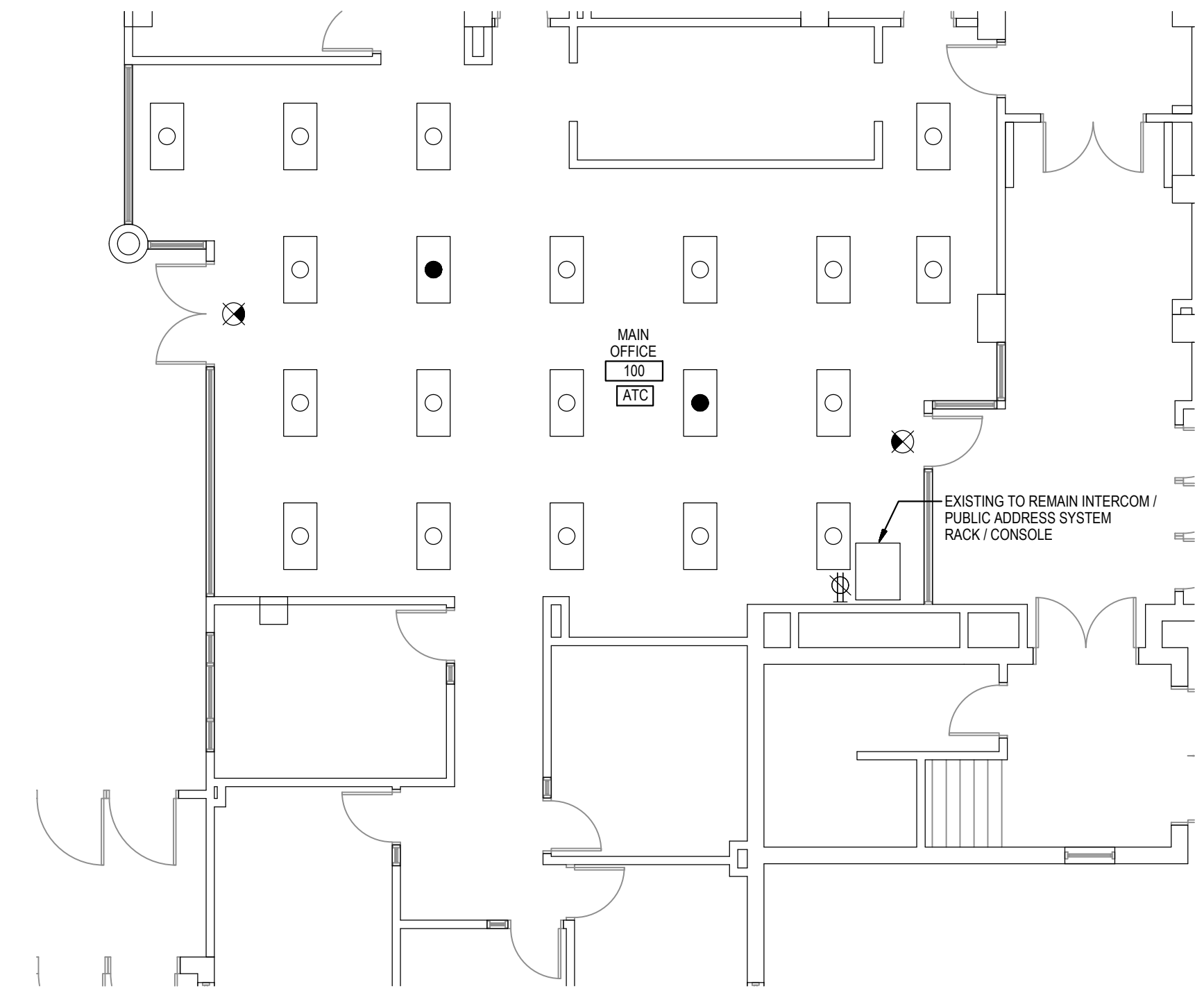
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TOILET ROOMS - NEW WORK  
SCALE: 1/8"=1'-0"



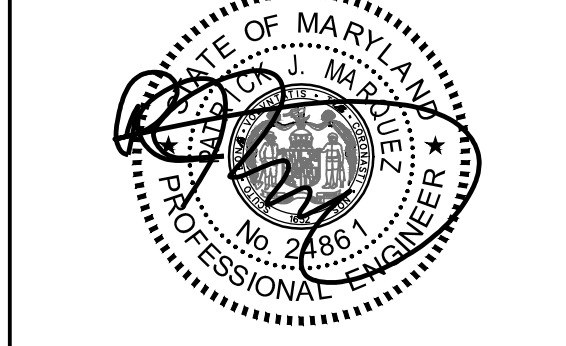
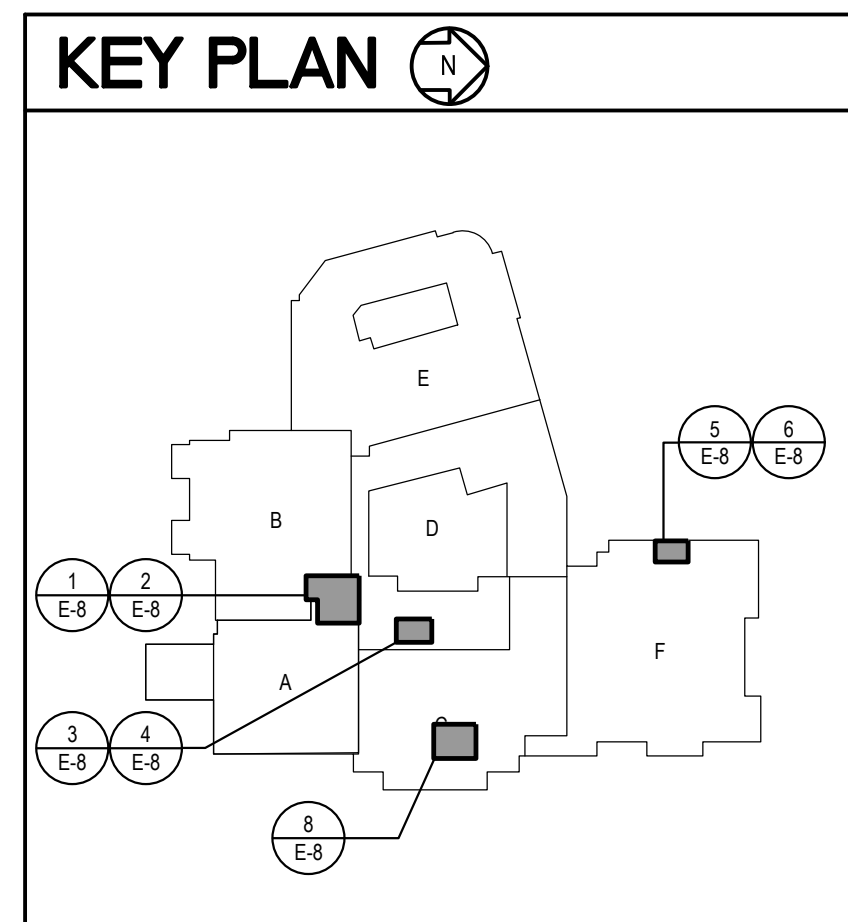
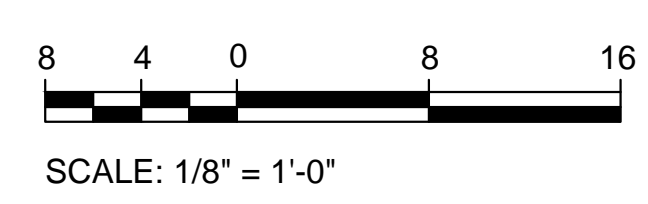
**5 PART LOWER LEVEL PLAN**  
TOILET ROOMS - DEMOLITION  
SCALE: 1/8"=1'-0"



**6 PART LOWER LEVEL PLAN**  
TOILET ROOMS - NEW WORK  
SCALE: 1/8"=1'-0"



**7 PART MAIN LEVEL PLAN**  
MAIN OFFICE - EXISTING CONDITIONS  
SCALE: 1/8"=1'-0"



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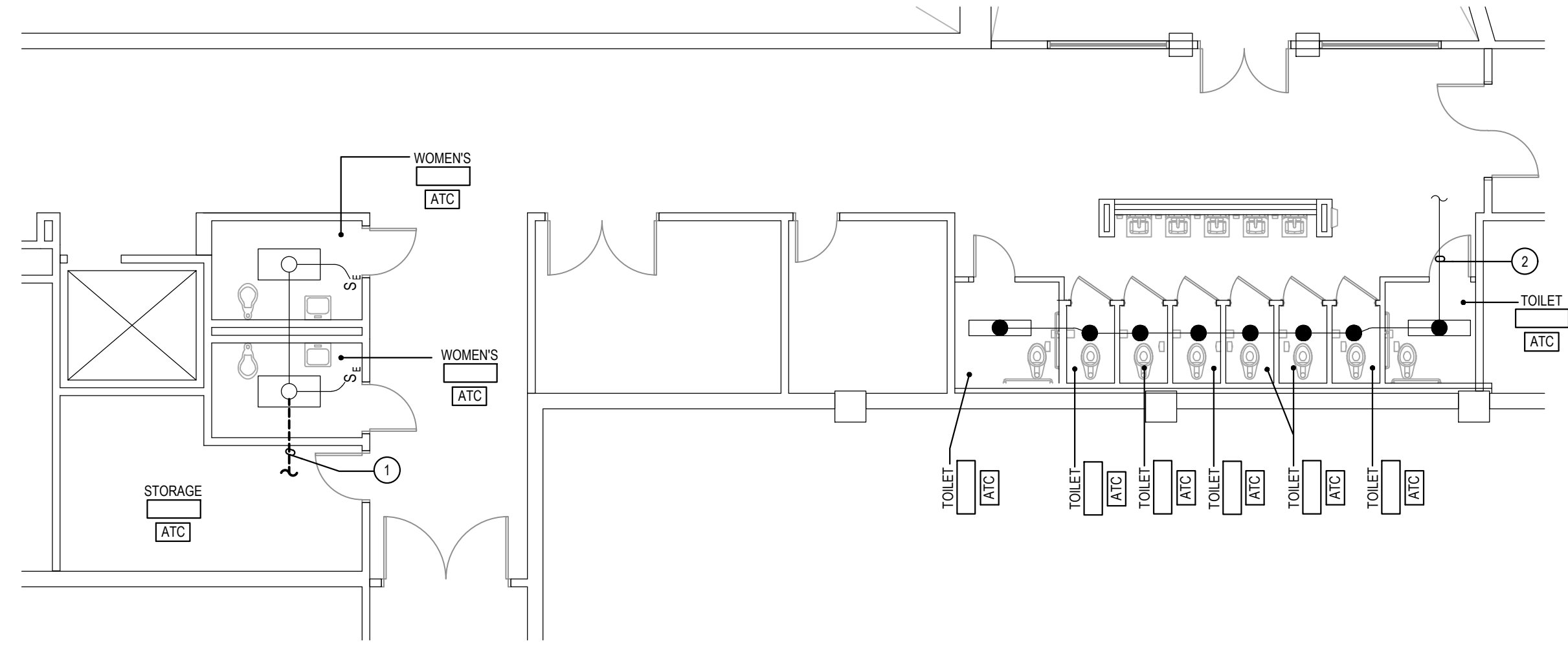
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	BID DOCUMENTS	02/19/25

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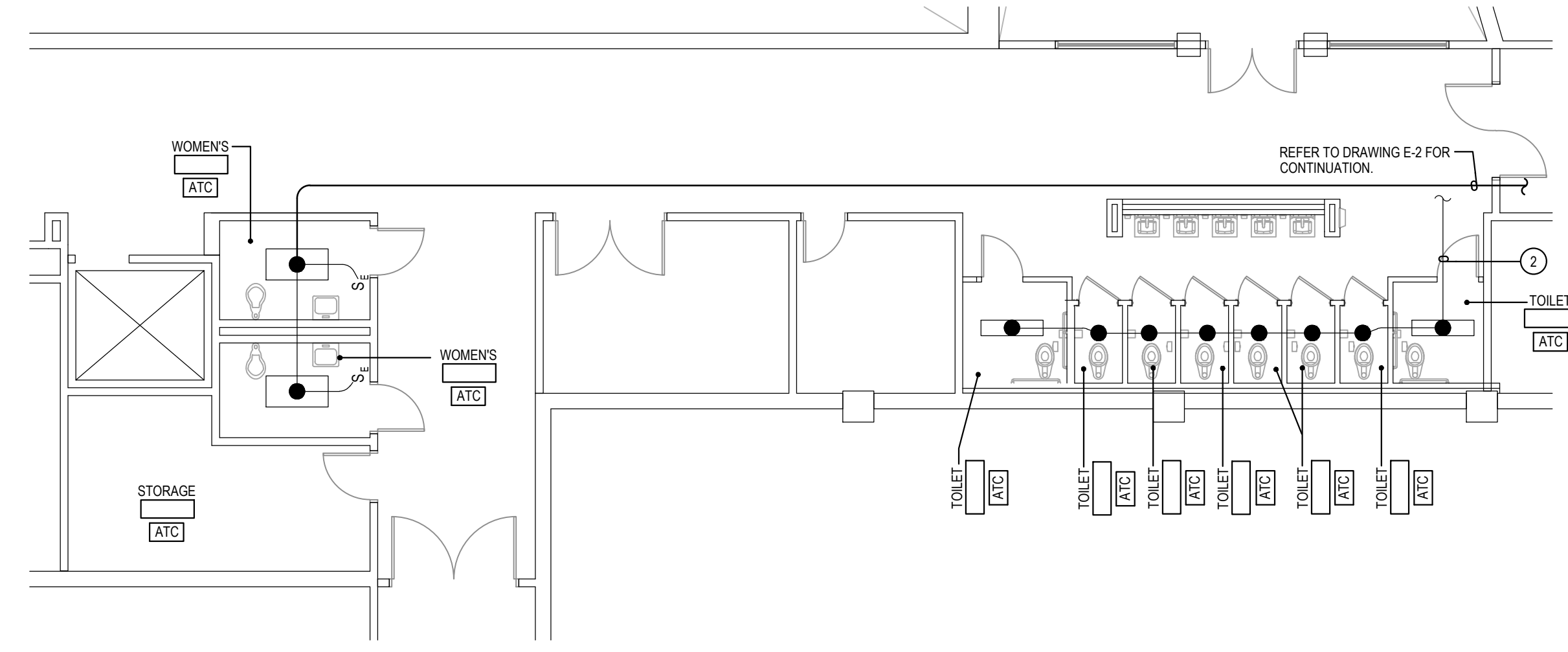
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**PART MAIN LEVEL PLANS - DEMOLITION AND NEW WORK**

Sheet No.  
**E-8**

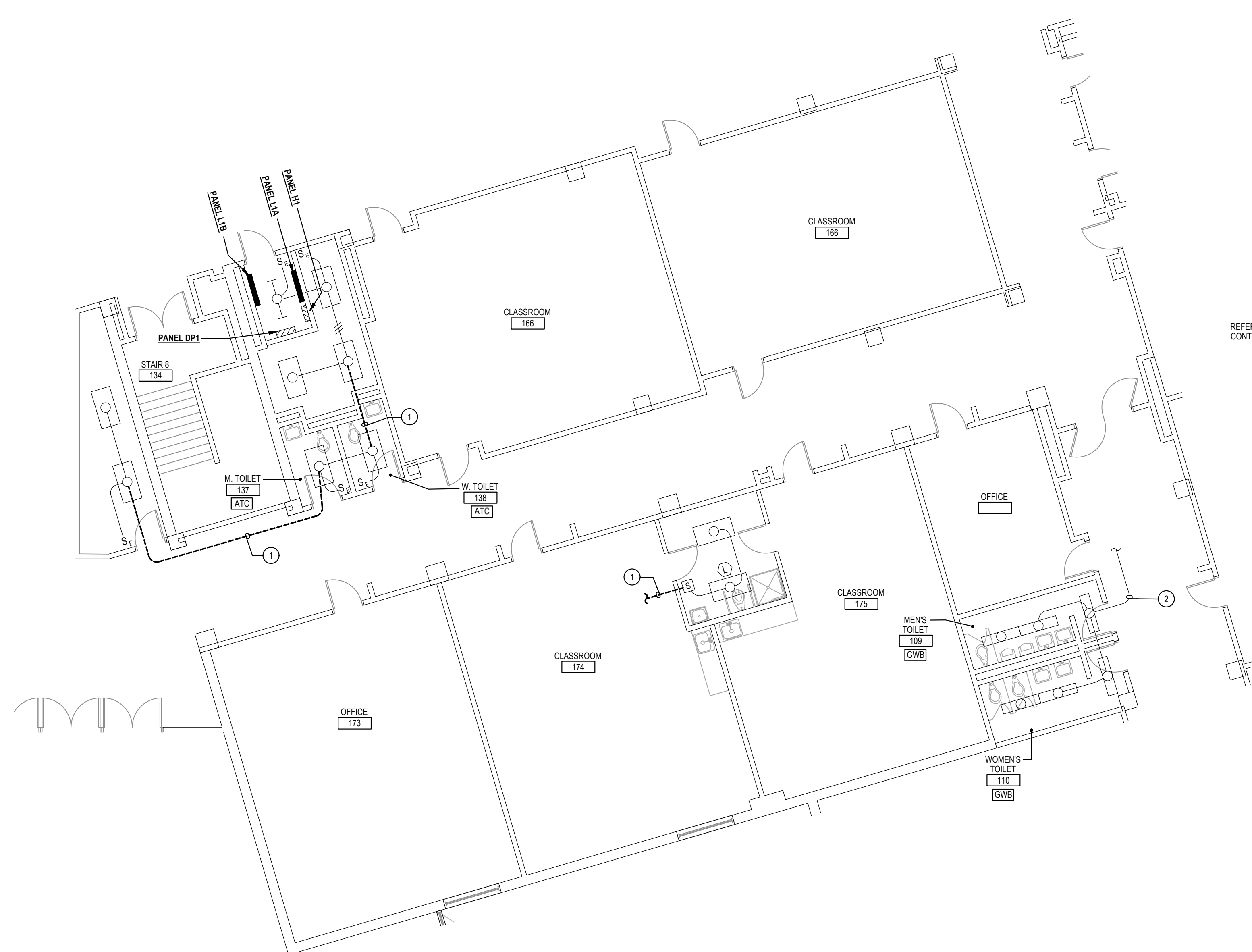




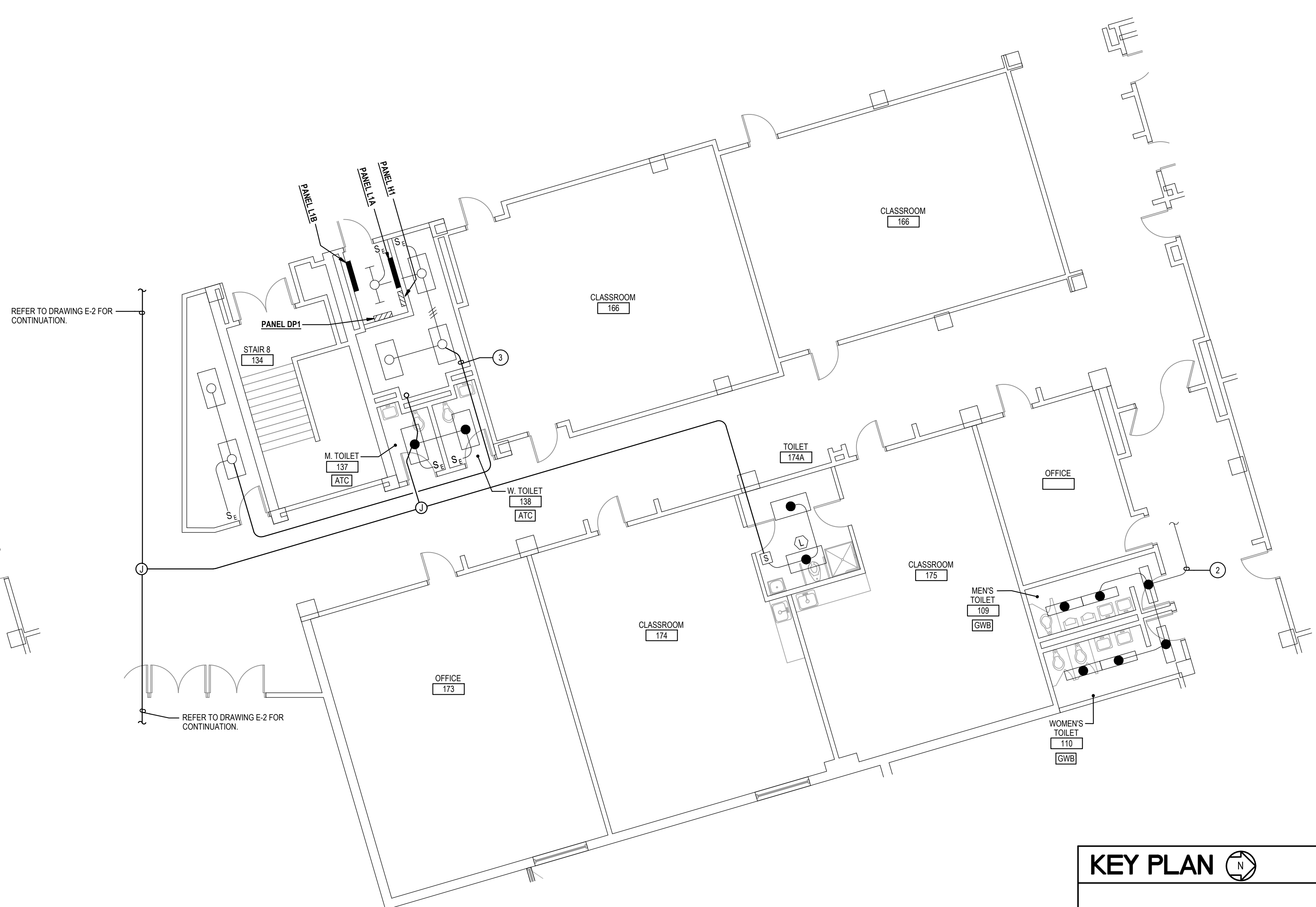
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E-9  
PART MAIN LEVEL PLAN  
TOILET ROOMS - DEMOLITION  
SCALE: 1/8"=1'-0"



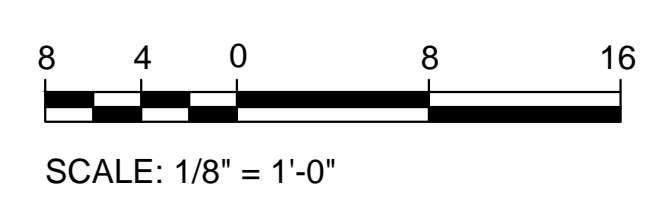
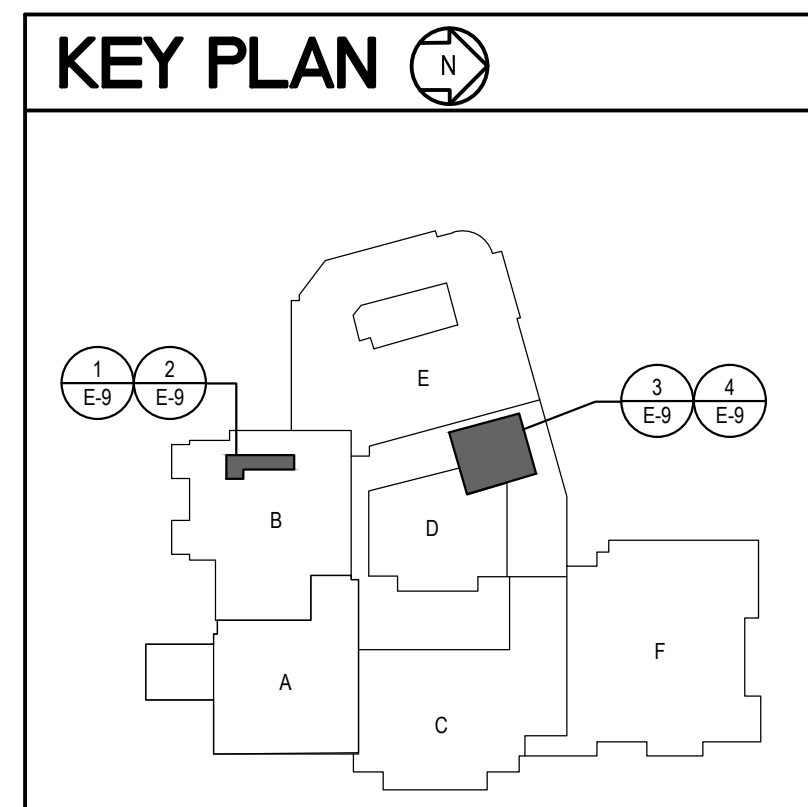
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E-9  
PART MAIN LEVEL PLAN  
TOILET ROOMS - NEW WORK  
SCALE: 1/8"=1'-0"



3  
E-9  
PART MAIN LEVEL PLAN  
TOILET ROOMS - DEMOLITION  
SCALE: 1/8"=1'-0"



4  
E-9  
PART MAIN LEVEL PLAN  
TOILET ROOMS - NEW WORK  
SCALE: 1/8"=1'-0"



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  - EXISTING CONDUIT AND WIRING FED FROM LIGHTING RELAY ON MAIN LEVEL. CONNECT EXISTING NORMAL LIGHTING CIRCUIT AND NEW EMERGENCY LIGHTING CIRCUIT TO NEW GENERATOR TRANSFER DEVICE LOCATED IN STORAGE 114 ON MAIN LEVEL, AS SHOWN ON PART PLAN SHEET.
  - PROVIDE 3 #12 - #12 GROUND IN 3/4" CONDUIT TO PROVIDE CIRCUIT CONTINUITY.

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT  
**THOMAS S. WOOTTON HIGH SCHOOL**  
 2100 WOOTTON PARKWAY  
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Drawing Title  
**PART MAIN LEVEL PLANS - DEMOLITION AND NEW WORK**

Sheet No.  
**E-9**



**GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT**  
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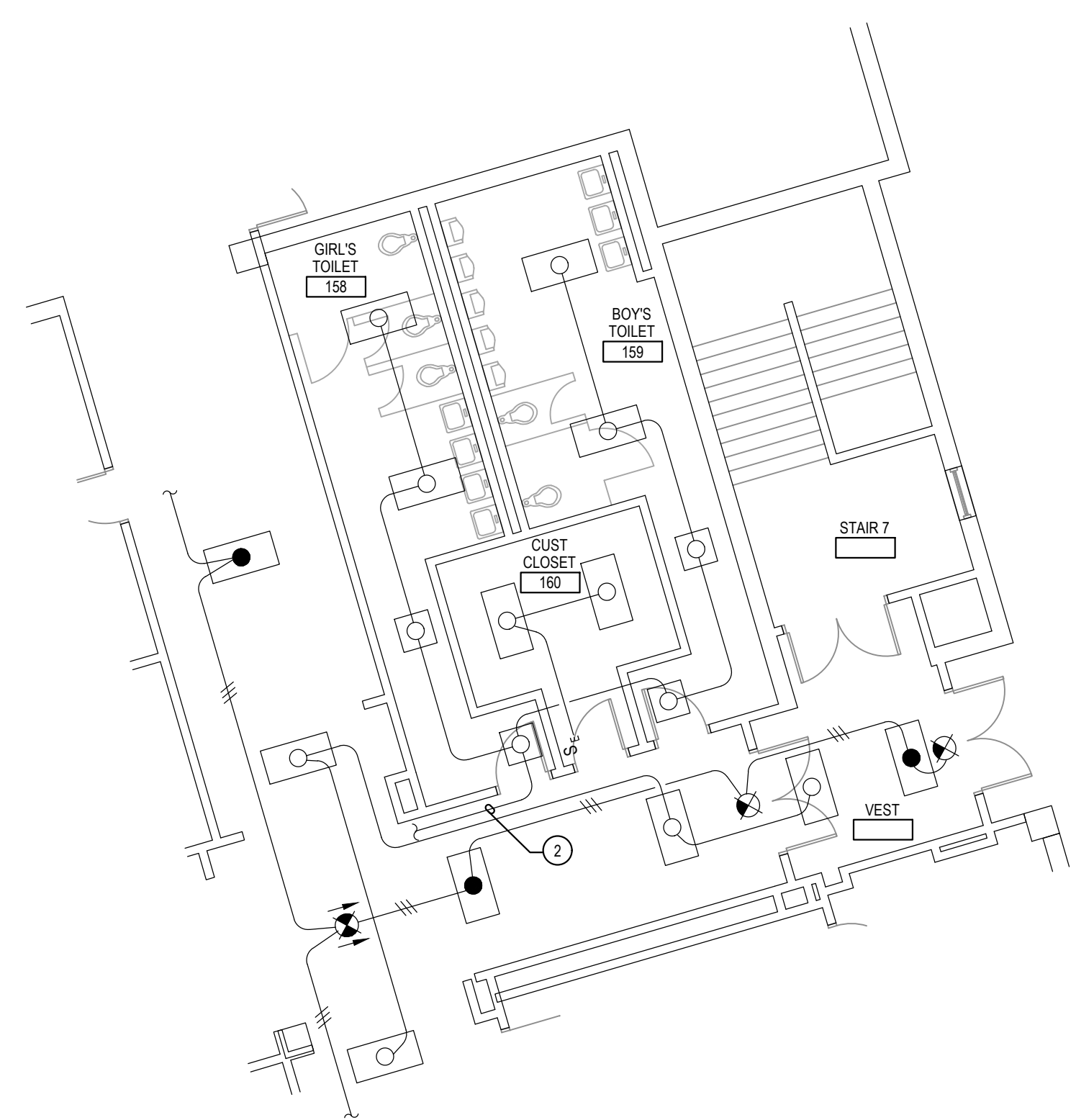
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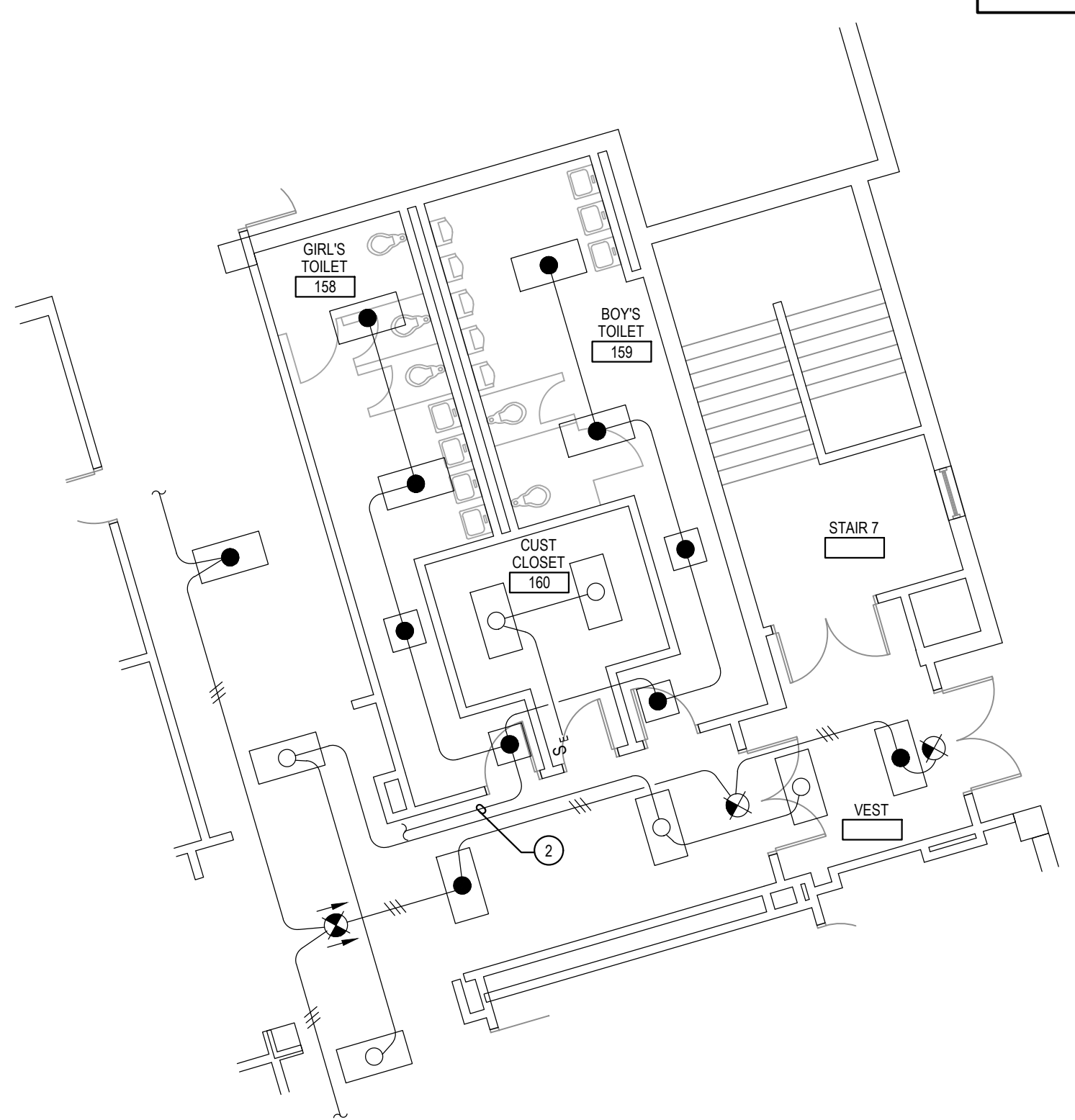
Drawing Title  
**PART MAIN AND UPPER LEVEL PLANS - DEMOLITION AND NEW WORK**

Sheet No:  
**E-10**

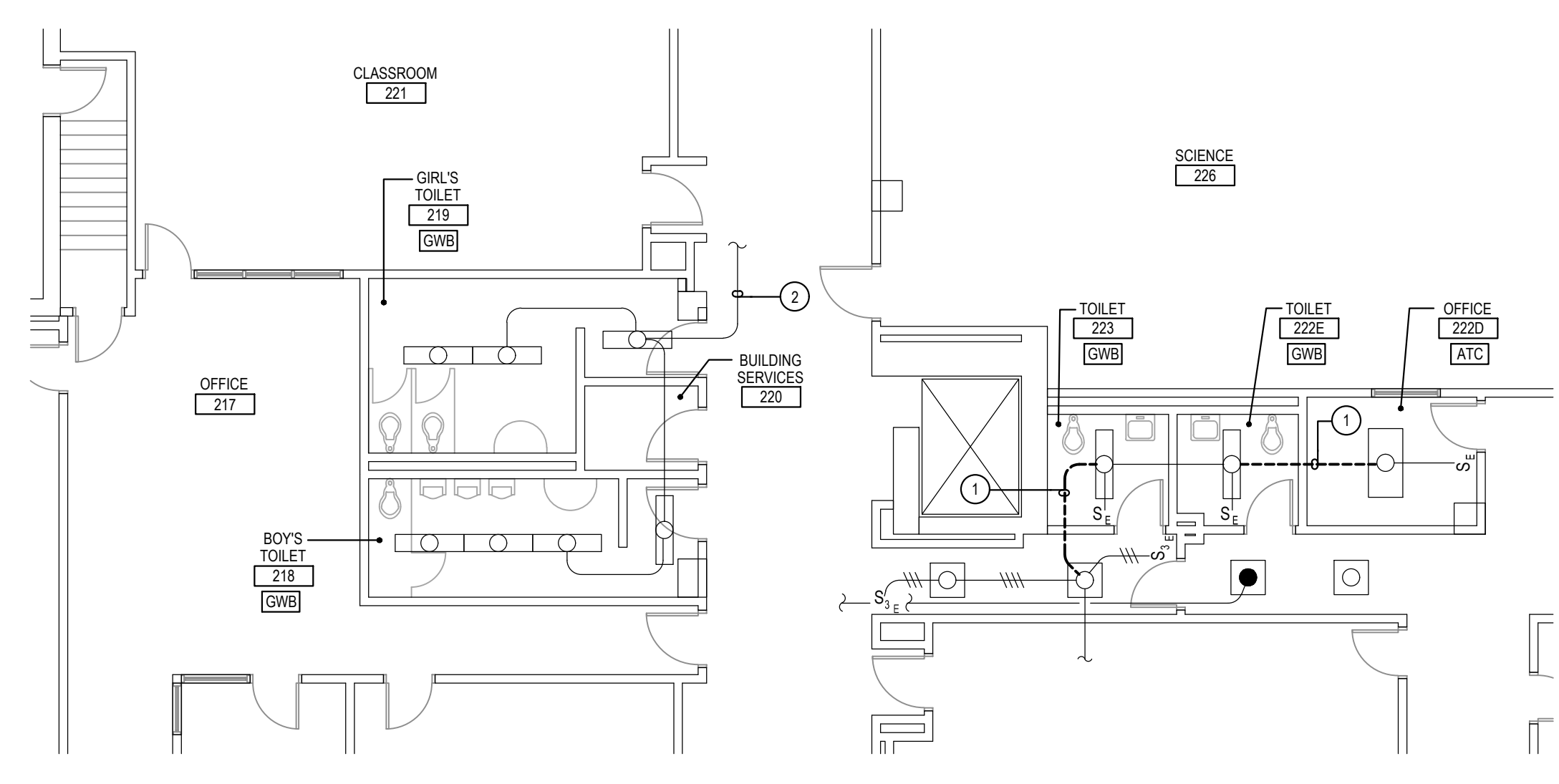
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  - EXISTING CONDUIT AND WIRING FED FROM LIGHTING RELAY ON MAIN LEVEL. CONNECT EXISTING NORMAL LIGHTING CIRCUIT AND NEW EMERGENCY LIGHTING CIRCUIT TO NEW GENERATOR TRANSFER DEVICE LOCATED IN STORAGE 114 ON MAIN LEVEL, AS SHOWN ON PART PLAN 218.
  - PROVIDE 2 #12 - #12 GROUND IN 3/4" CONDUIT TO PROVIDE CIRCUIT CONTINUITY.
  - PROVIDE 2 #12 - #12 GROUND IN 3/4" CONDUIT AND CONNECT TO EXISTING EXIT EMERGENCY LIGHTING CIRCUIT.



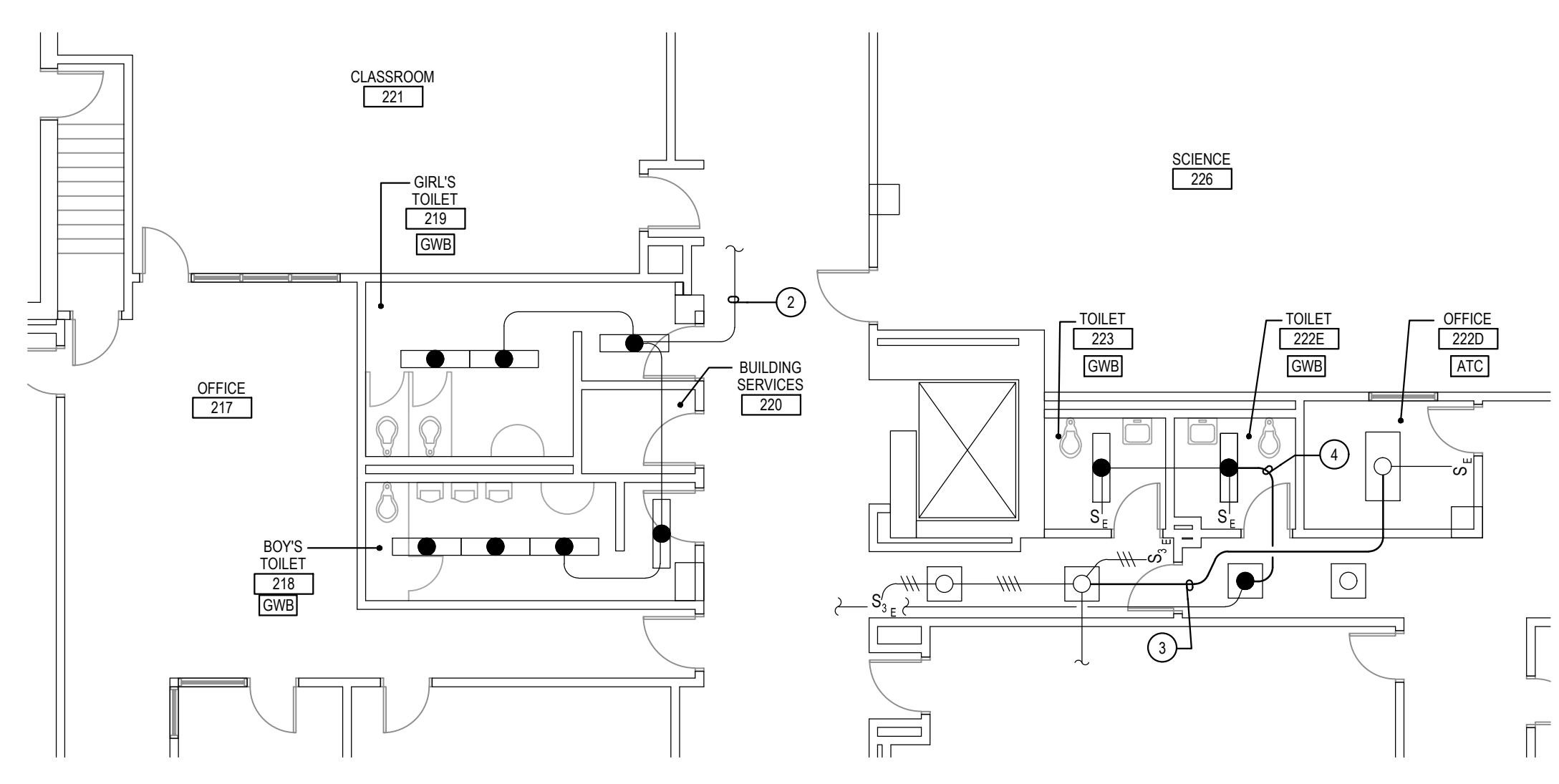
**1 PART MAIN LEVEL PLAN**  
**TOILET ROOMS - DEMOLITION**  
 SCALE: 1/8" = 1'-0"



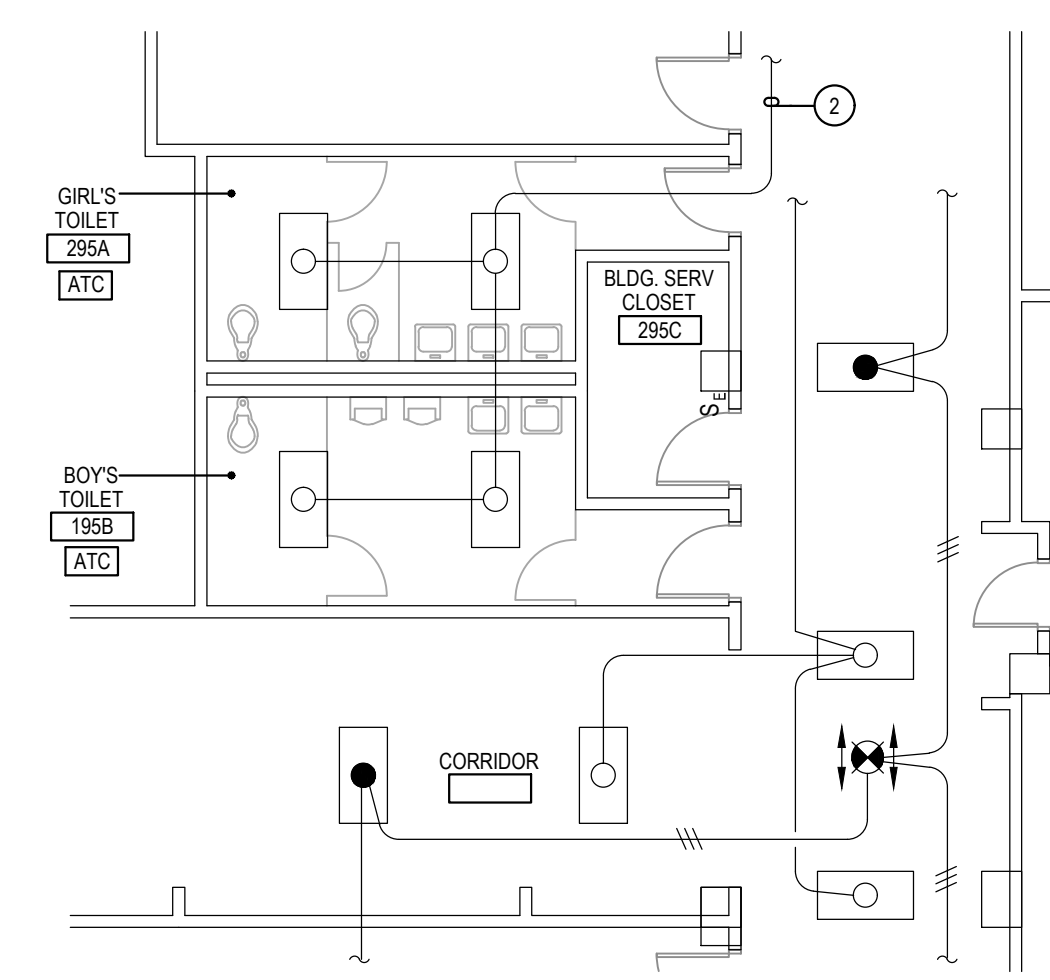
**2 PART MAIN LEVEL PLAN**  
**TOILET ROOMS - NEW WORK**  
 SCALE: 1/8" = 1'-0"



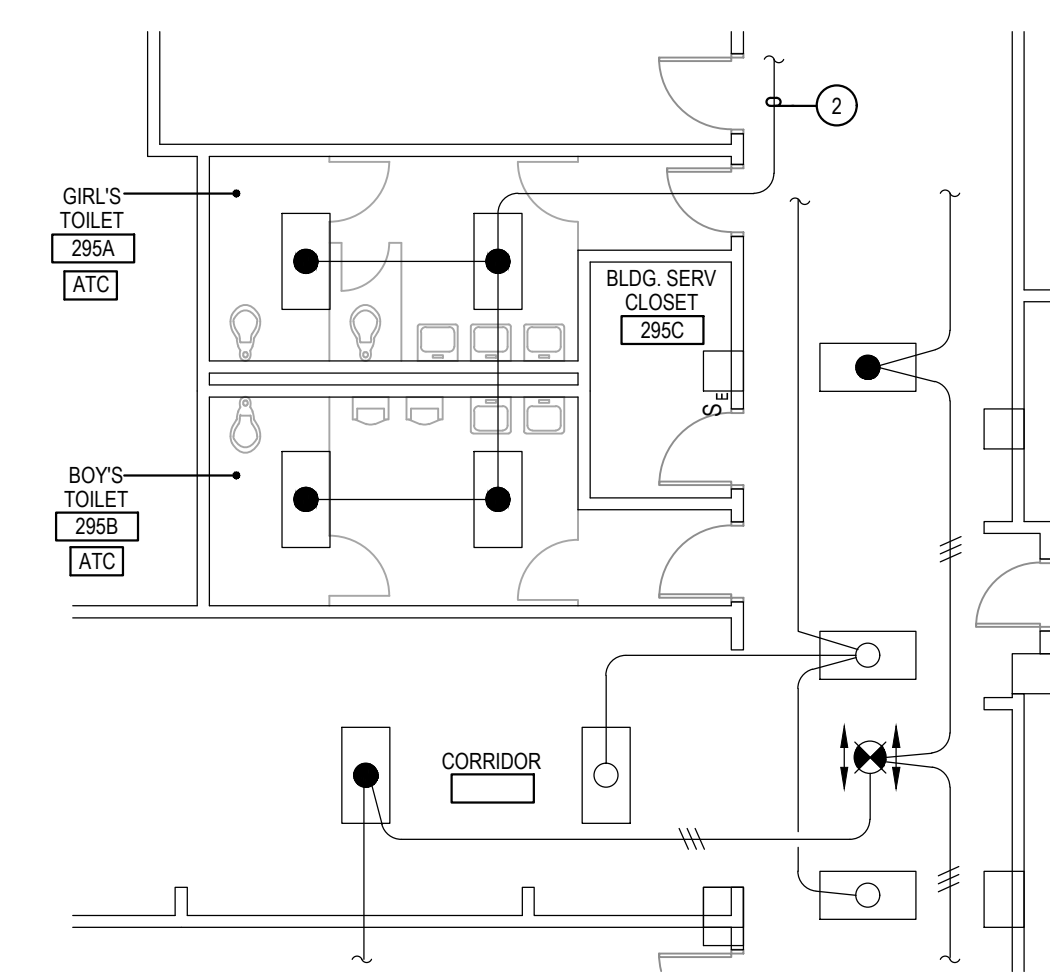
**3 PART UPPER LEVEL PLAN**  
**TOILET ROOMS - DEMOLITION**  
 SCALE: 1/8" = 1'-0"



**4 PART UPPER LEVEL PLAN**  
**TOILET ROOMS - NEW WORK**  
 SCALE: 1/8" = 1'-0"

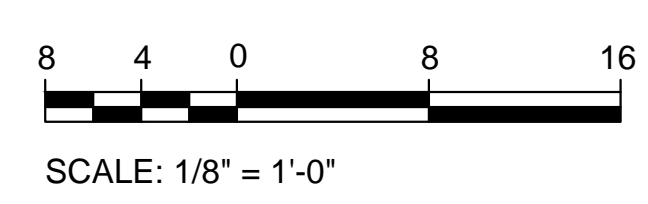
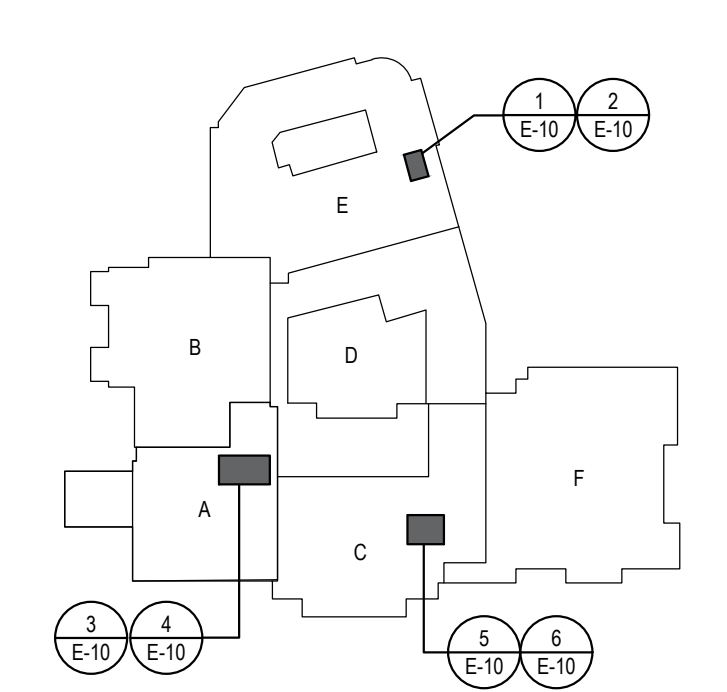


**5 PART UPPER LEVEL PLAN**  
**TOILET ROOMS - DEMOLITION**  
 SCALE: 1/8" = 1'-0"

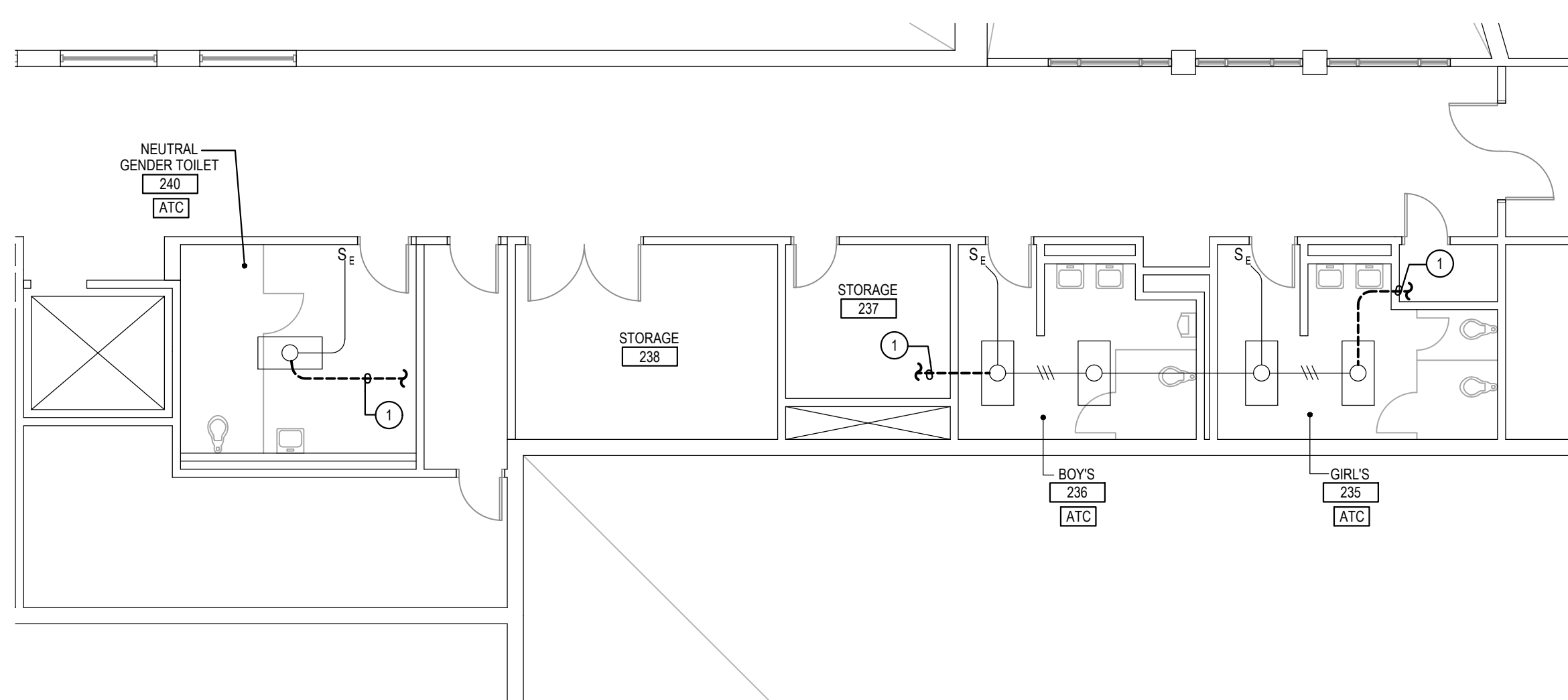


**6 PART UPPER LEVEL PLAN**  
**TOILET ROOMS - NEW WORK**  
 SCALE: 1/8" = 1'-0"

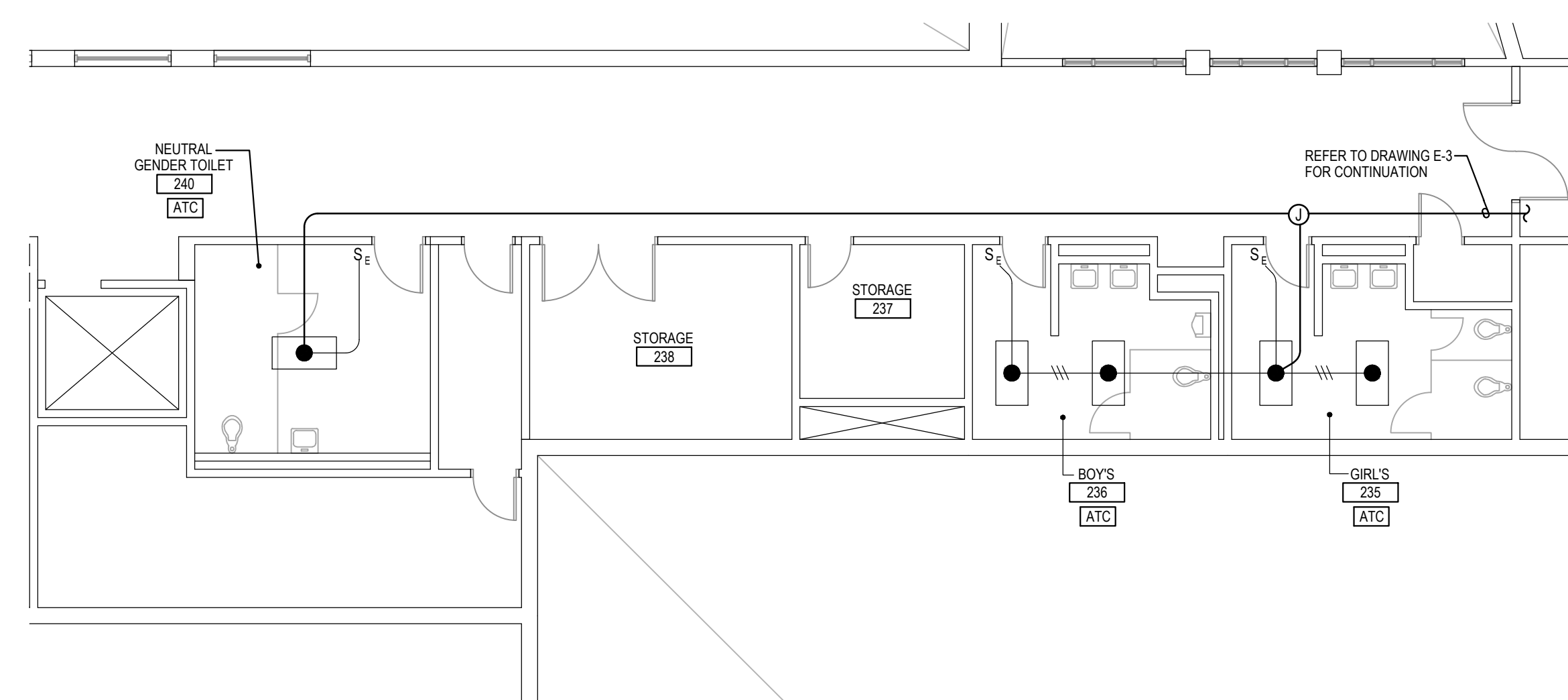
**KEY PLAN**



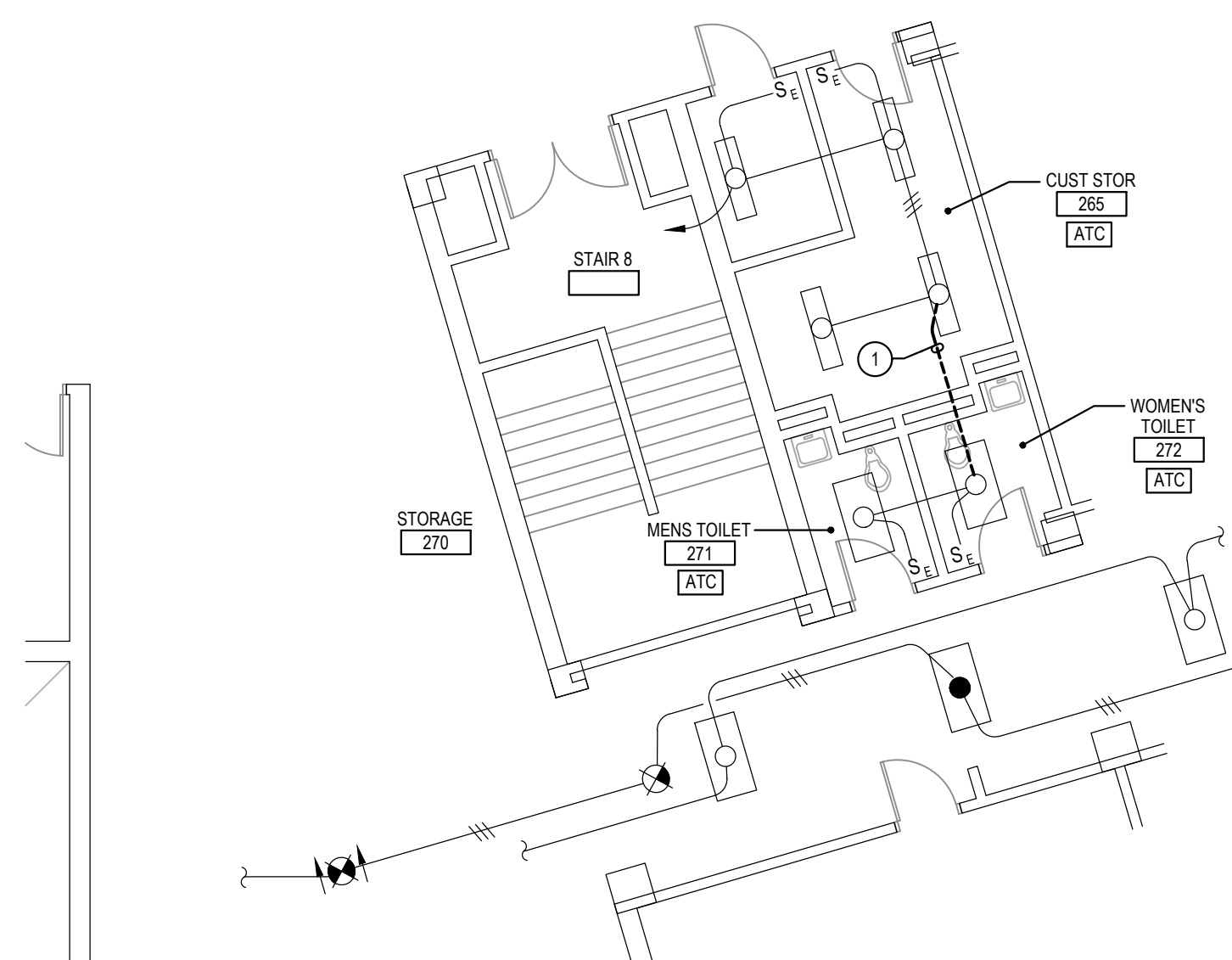




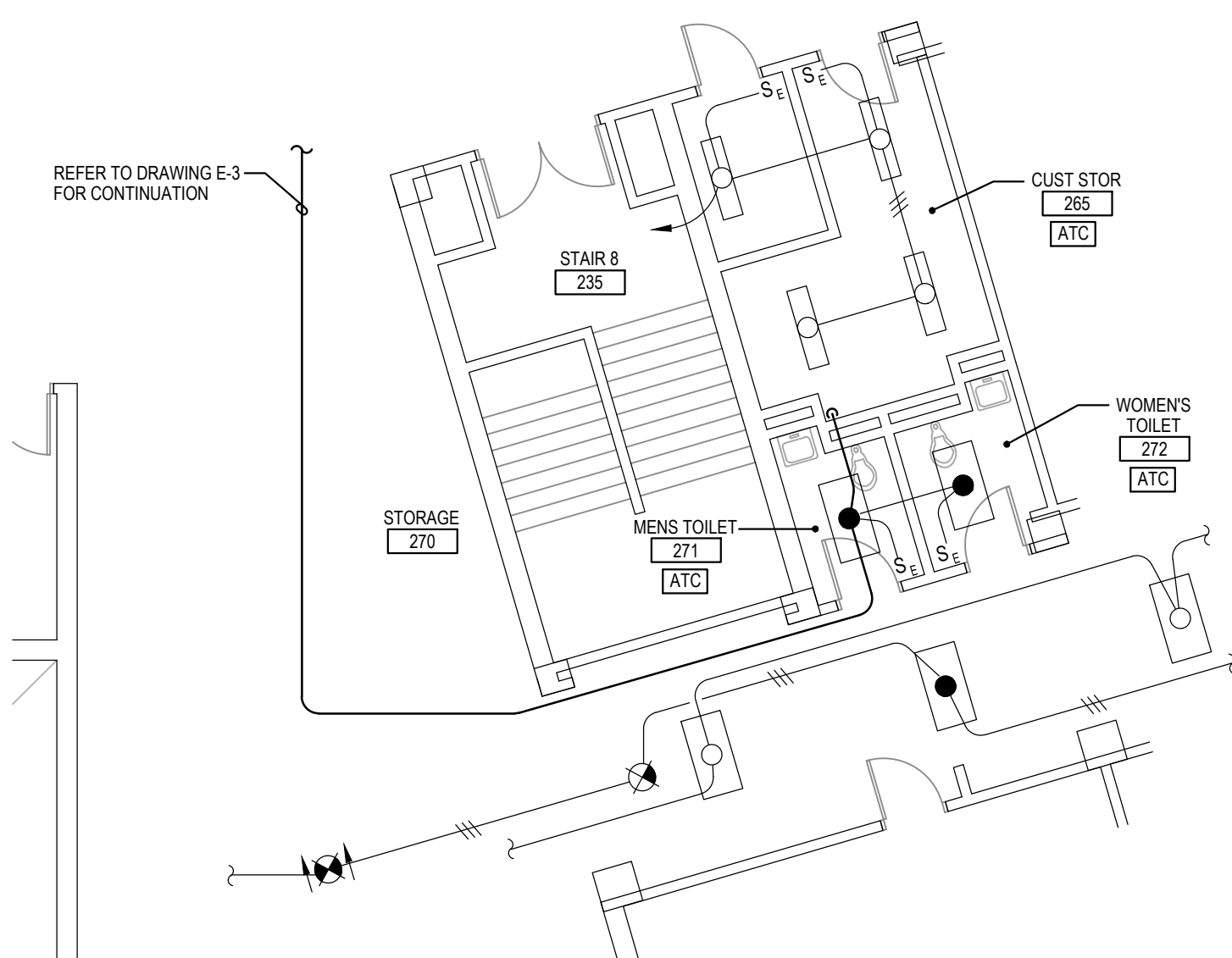
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E-11  
**PART UPPER LEVEL PLAN**  
TOILET ROOMS - DEMOLITION  
SCALE: 1/8"=1'-0"



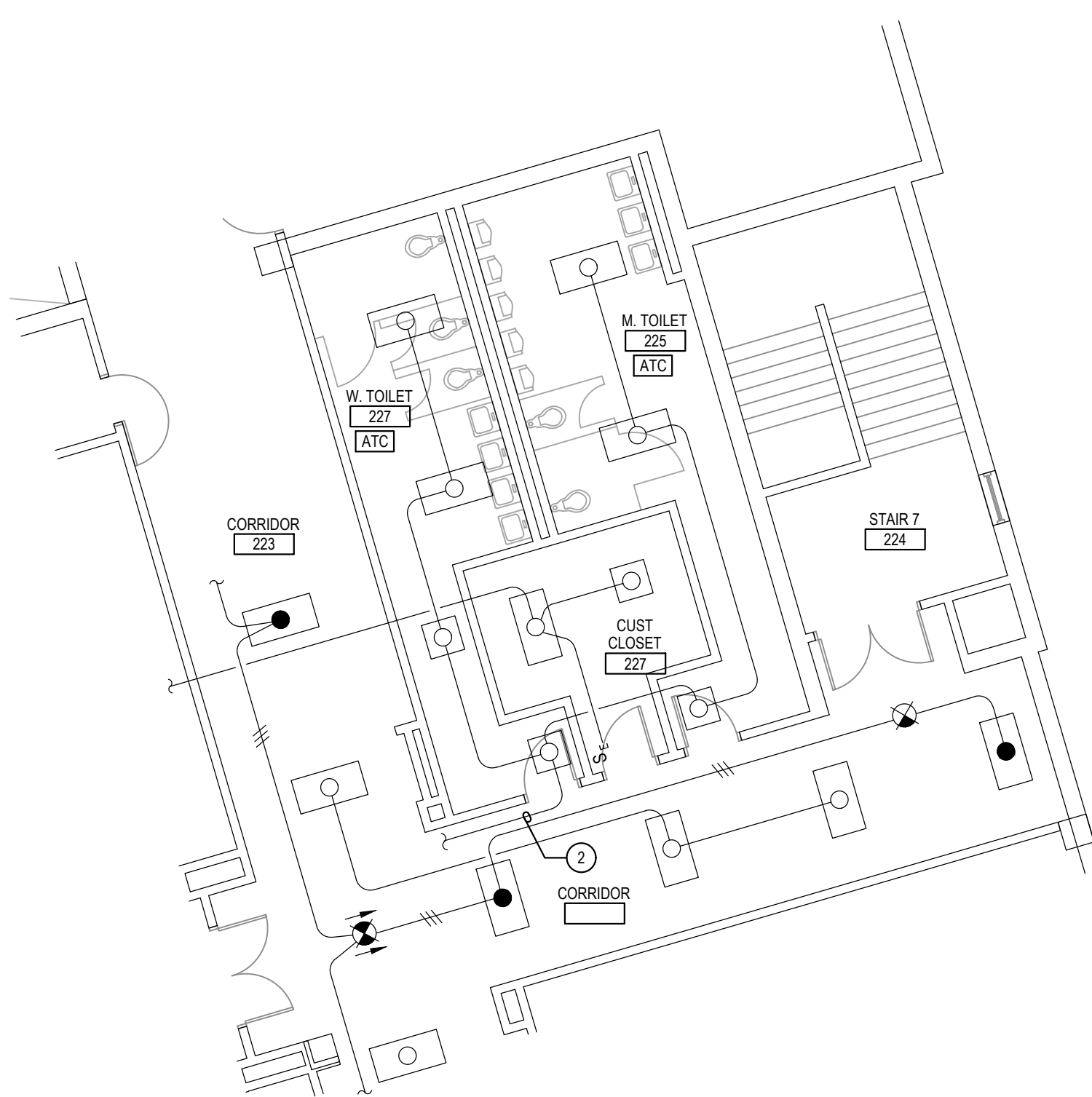
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E-11  
**PART UPPER LEVEL PLAN**  
TOILET ROOMS - NEW WORK  
SCALE: 1/8"=1'-0"



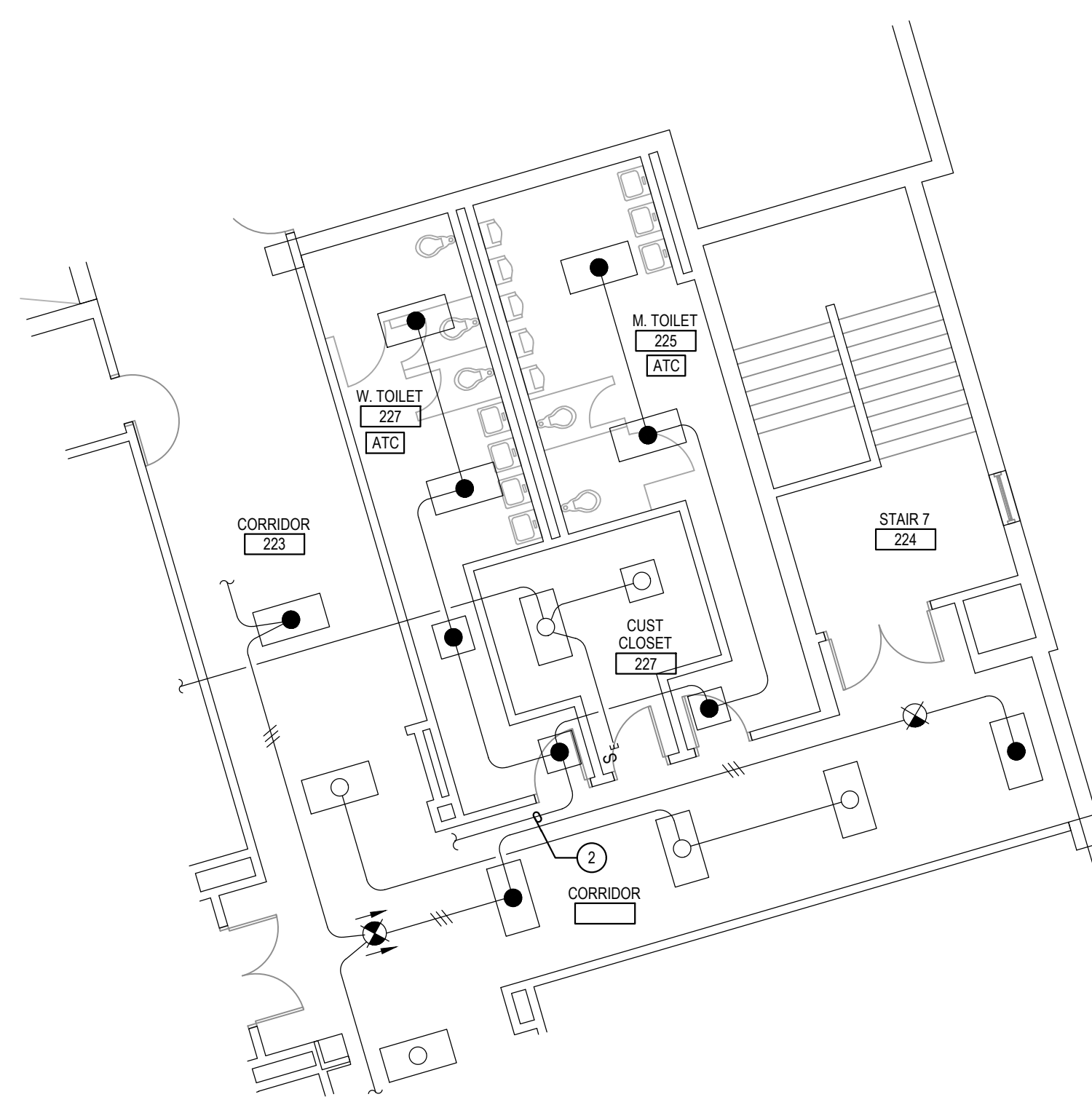
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E-11  
**PART UPPER LEVEL PLAN**  
TOILET ROOMS - DEMOLITION  
SCALE: 1/8"=1'-0"



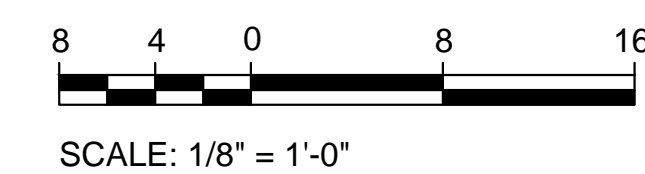
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E-11  
**PART UPPER LEVEL PLAN**  
TOILET ROOMS - NEW WORK  
SCALE: 1/8"=1'-0"



5  
E-11  
**PART UPPER LEVEL PLAN**  
TOILET ROOMS - DEMOLITION  
SCALE: 1/8"=1'-0"

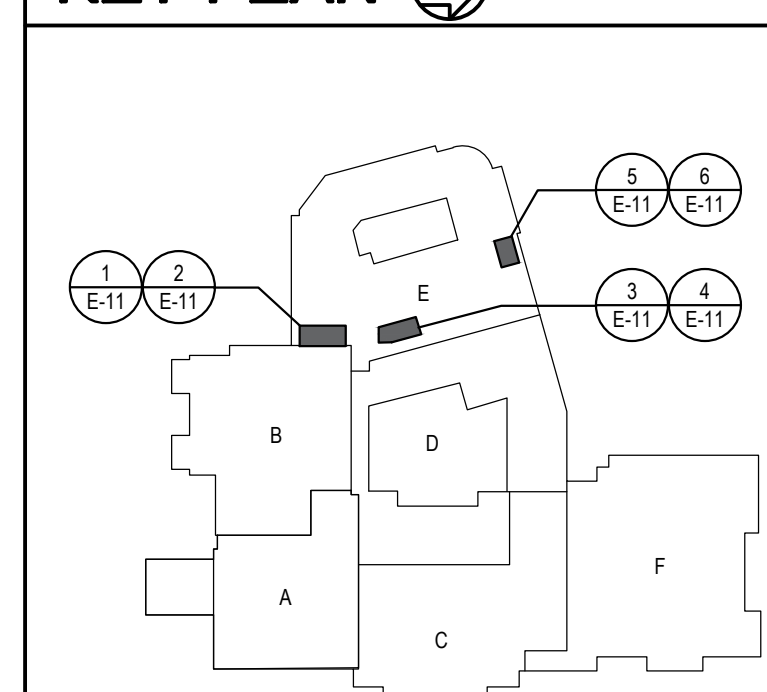


6  
E-11  
**PART UPPER LEVEL PLAN**  
TOILET ROOMS - NEW WORK  
SCALE: 1/8"=1'-0"



- 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 AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
  - THE EXISTING FACILITY SHALL REMAIN IN OPERATION DURING RENOVATION. INTERUPTION TO THE EXISTING BUILDING ELECTRIC SERVICE SHALL BE COORDINATED WITH THE OWNER TO MINIMIZE DISRUPTION. INTERUPTION OF UTILITIES SHALL NOT OCCUR DURING SCHOOL WORKING HOURS.
  - REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
  - 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.
  - 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.
  - WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, PROVIDE WIRE AND CONDUIT TO NEW LOCATION AS REQUIRED.
  - IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR DEVICES REMOVED.
- SPECIFIC NOTES:**
- DISCONNECT LIGHTING FIXTURE FROM NORMAL LIGHTING CIRCUIT AND CONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT AS INDICATED ON NEW WORK PLAN. PROVIDE CONDUIT AND WIRING AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY OF NORMAL LIGHTING CIRCUIT.
  - EXISTING CONDUIT AND WIRING FED FROM LIGHTING RELAY ON MAIN LEVEL. CONNECT EXISTING NORMAL LIGHTING CIRCUIT AND NEW EMERGENCY LIGHTING CIRCUIT TO NEW GENERATOR TRANSFER DEVICE LOCATED IN STORAGE 114 ON MAIN LEVEL AS SHOWN ON PART PLAN 2E-8.

**KEY PLAN**



**GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT**  
**THOMAS S. WOOTTON HIGH SCHOOL**  
 2100 WOOTTON PARKWAY  
 ROCKVILLE, MD 20850  
 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. 24861. Expiration date: 02-24-2026.

**James Posey Associates**  
 Engineering Your Vision  
 Mechanical & Electrical Consulting Engineers  
 11155 Red Run Boulevard, Suite 310  
 Baltimore, Maryland 21117  
 tel 410-265-6100  
 jamesposey.com

Tag	Description	Date
	BID DOCUMENTS	02/19/25

PSC No	
Scale	AS NOTED
Project No	8047-24
Date	FEBRUARY 19, 2025

Drawing Title  
**PART UPPER LEVEL PLANS - DEMOLITION AND NEW WORK**

Sheet No:  
**E-11**

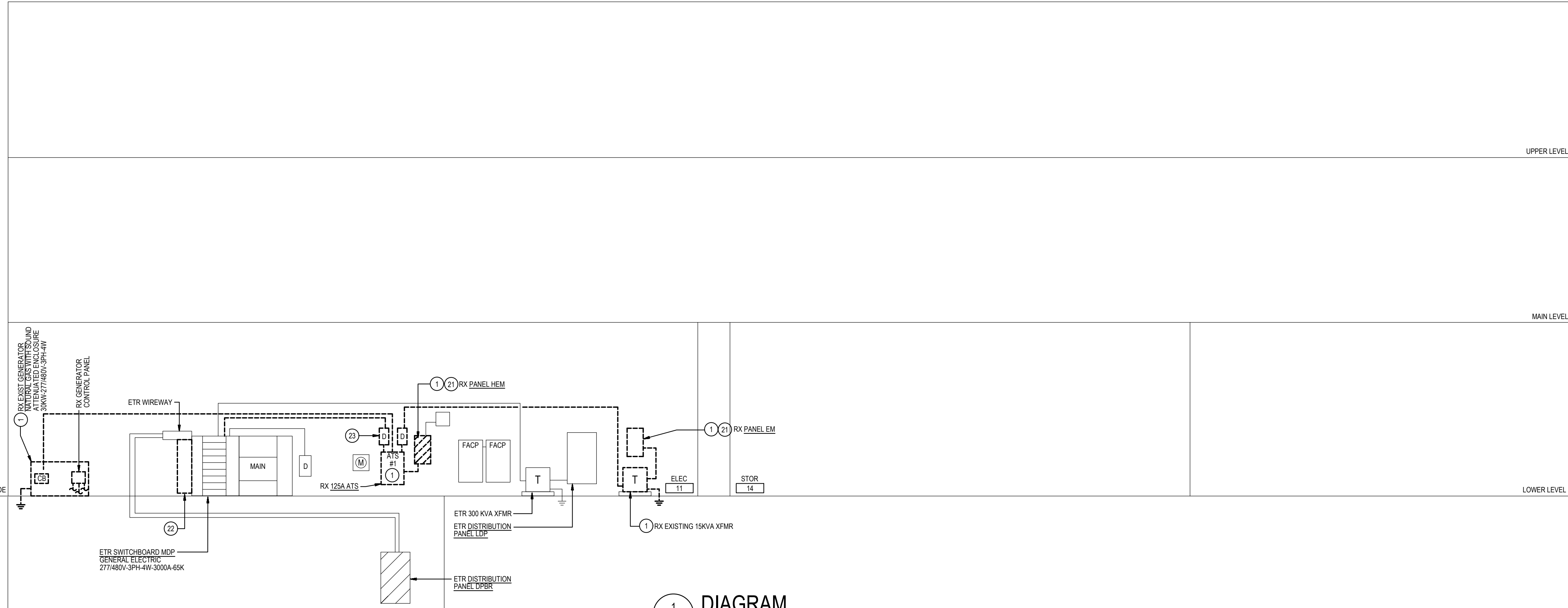


**GENERAL NOTES:**

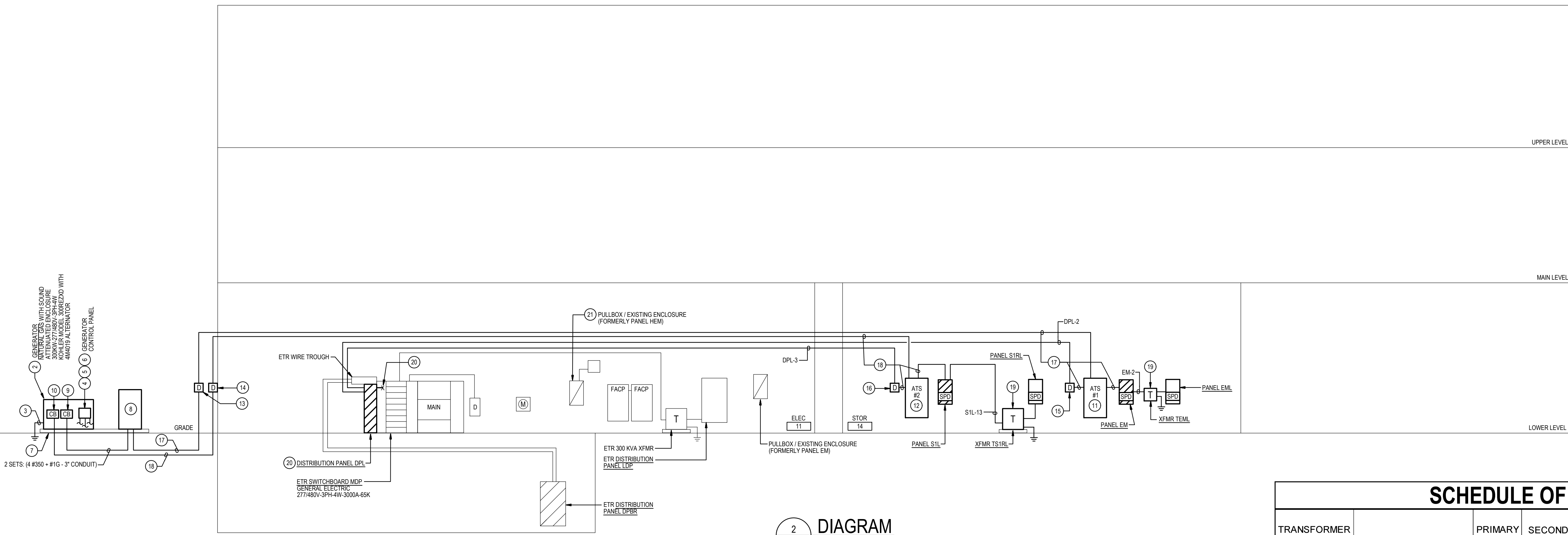
- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD 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.
- H. REMOVE EXISTING EQUIPMENT AND DEVICES INDICATED, INCLUDING ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.
- I. EXISTING CIRCUITS INTERRUPTED BY DEMOLITION, BUT ARE TO REMAIN, SHALL BE MADE CONTINUOUS.

**SPECIFIC NOTES:**

- 1. REMOVE EXISTING ELECTRICAL EQUIPMENT AFTER NEW GENERATOR IS INSTALLED AND OPERATIONAL.
- 2. PROVIDE TYPE 10 GENERATOR, PER NFPA 110. THE GENERATOR SHALL BE ABLE TO PROVIDE GENERATOR POWER TO THE SCHOOL WITHIN 10 SECONDS AFTER A UTILITY POWER OUTAGE.
- 3. REFER TO DIAGRAM BE-0 FOR GENERATOR GROUNDING.
- 4. 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.
- 5. PROVIDE WIRING IN CONDUIT FROM GENERATOR CONTROL PANEL TO GENERATOR REMOTE ALARM ANNUNCIATOR PANEL. WIRING SHALL BE AS PER GENERATOR MANUFACTURER'S RECOMMENDATIONS. LOCATE GENERATOR REMOTE ALARM ANNUNCIATOR PANEL IN BUILDING SERVICES OFFICE (BSO) 17 SHOWN ON PART PLAN VE-7.
- 6. PROVIDE WIRING IN CONDUIT FROM GENERATOR CONTROL PANEL TO FIRE DETECTION AND ALARM SYSTEM MONITOR MODULES. WIRING SHALL BE AS PER GENERATOR MANUFACTURER'S RECOMMENDATIONS.
- 7. GENERATOR CONCRETE PAD. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 8. PROVIDE 600A GROUND MOUNTED GENERATOR DOCKING STATION IN NEMA 3R ENCLASURE, EQUAL TO TRIVSTAR 600S-5 WITH TWO 3P-100A CIRCUIT BREAKERS, KIRK KEY INTERLOCKED FOR CONNECTION TO ATS-1 AND PORTABLE MOBILE GENERATOR. FEEDER FOR LOAD BANK CONNECTION SHALL BE SIZED FOR 600A. PROVIDE SIGN ON FRONT OF GENERATOR DOCKING STATION TO READ AS FOLLOWS: "SERVING EMERGENCY TRANSFER SWITCH (ATS-1) 277/480V, 3-PHASE, 4-WIRE".
- 9. PROVIDE 3P-400A 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.
- 10. PROVIDE 3P-250A CIRCUIT BREAKER TO SERVE GENERATOR STANDBY LOADS. MOUNT CIRCUIT BREAKER WITHIN GENERATOR ENCLOSURE AND MAKE CONNECTIONS. COORDINATE LOCATION OF CIRCUIT BREAKER WITH GENERATOR MANUFACTURER.
- 11. PROVIDE 4P-100A AUTOMATIC TRANSFER SWITCH (ATS) TO SERVE EMERGENCY (LIFE-SAFETY) LOADS. ATS SHALL HAVE A MINIMUM UL 1000 WITHSTAND AND CLOSING RATING OF 60kAC. PROVIDE NAMEPLATE ON FRONT OF ATS TO READ "EMERGENCY ATS-1".
- 12. PROVIDE 4P-200A AUTOMATIC TRANSFER SWITCH (ATS) TO SERVE STANDBY LOADS. ATS SHALL HAVE A MINIMUM UL 1000 WITHSTAND AND CLOSING RATING OF 60kAC. PROVIDE NAMEPLATE ON FRONT OF ATS TO READ "STANDBY ATS-2".
- 13. PROVIDE 3P-100A-600V NON-FUSED ENCLOSED SWITCH IN NEMA 3R ENCLASURE TO SERVE GENERATOR EMERGENCY (LIFE-SAFETY) LOADS.
- 14. PROVIDE 3P-400A-600V NON-FUSED ENCLOSED SWITCH IN NEMA 3R ENCLASURE TO SERVE GENERATOR STANDBY LOADS.
- 15. PROVIDE 3P-100A-600V FUSED ENCLOSED SWITCH FUSED AT 100A TO SERVE GENERATOR EMERGENCY (LIFE-SAFETY) LOADS.
- 16. PROVIDE 3P-400A-600V FUSED ENCLOSED SWITCH FUSED AT 250A TO SERVE GENERATOR STANDBY LOADS.
- 17. PROVIDE 4 #2 + #6 GROUND IN 1 1/2" CONDUIT.
- 18. PROVIDE 4 #250 + #4 GROUND IN 2 1/2" CONDUIT.
- 19. REFER TO SCHEDULE OF TRANSFORMERS ON THIS DRAWING FOR ADDITIONAL INFORMATION ON TRANSFORMERS AS NOTED, AND FOR NUMBER AND SIZE OF WIRE AND CONDUIT OF PRIMARY AND SECONDARY FEEDERS FOR TRANSFORMER AS NOTED.
- 20. TAP EXISTING SWITCHBOARD AND PROVIDE 4 SETS (4 #350 + #30 GROUND) COORDINATE OUTAGES WITH POWER COMPANY AND OWNER. CONNECT EXISTING FEEDER SERVING ETR DISTRIBUTION PANEL DPBR TO NEW BREAKER IN PANEL DPL. PROVIDE 2 SETS (4 #350 + #4 GROUND) TO MATCH EXISTING FEEDER.
- 21. REMOVE EXISTING PANEL INTERIOR COMPONENTS AND LEAVE EXISTING PANEL ENCLOSURE TO BE USED AS A PULLBOX. DISCONNECT EXISTING BRANCH CIRCUITS FROM CIRCUIT BREAKERS. REMOVE INTERIOR COMPONENTS OF EXISTING PANEL. ENCLOSURE OF PANEL SHALL REMAIN AND BECOME A PULLBOX. PROVIDE CONDUIT AND WIRING TO MATCH EXISTING TO CONNECT REMAINING CIRCUITS TO NEW PANEL.
- 22. REMOVE EXISTING 600A SERVICE DISCONNECT RE SERVING PANEL DPBR AND ASSOCIATED WIRING BACK TO SWITCHBOARD AND ASSOCIATED BUS TAP. RECONNECT FEEDERS SERVING PANEL DPBR TO NEW PANEL DPL AS INDICATED ON NEW WORK POWER RISER DIAGRAM.
- 23. DISCONNECT AND REMOVE ENCLOSED SWITCH AND ASSOCIATED CONDUIT AND WIRING BACK TO SWITCHBOARD AND ASSOCIATED BUS TAP. COORDINATE OUTAGE WITH OWNER AND POWER COMPANY.



**1**  
E-12  
**DIAGRAM**  
**POWER RISER DIAGRAM - DEMOLITION**  
NOT TO SCALE

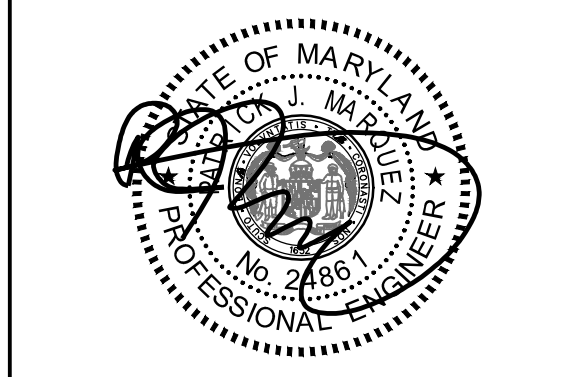


**2**  
E-12  
**DIAGRAM**  
**POWER RISER DIAGRAM - NEW WORK**  
NOT TO SCALE

**SCHEDULE OF TRANSFORMERS**

TRANSFORMER DESIG.	KVA	LOCATION	PRIMARY FEEDER	SECONDARY TAP WIRING & CONDUIT (NOTE A)	GROUNDING ELECTRODE CONDUCTOR	EQUIPMENT SERVED	XFMR TYPE (NOTE B)	NOTES
TS1R	45	STORAGE 14	S1L-13	4 #1/0 + #6 SSBJ - 2°C	#6	PANEL S1RL	DOE	
TEML	9	STORAGE 14	EM-2	4 #8 + #8 SSBJ - 3/4°C	#8	PANEL EML	RE	

**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 TYPES: GENERAL PURPOSE DOE 2016 (DOE); RESIN ENCAPSULATED (RE)  
 C. TRANSFORMER SHALL HAVE 480-VOLT, 3-PHASE, DELTA PRIMARY AND 120/208-VOLT, 3-PHASE, WYE/GROUNDED SECONDARY.



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.



**James Posey Associates**  
 Engineering Your Vision  
 Mechanical & Electrical Consulting Engineers  
 11155 Red Run Boulevard, Suite 310  
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 tel 410-265-6100  
 jamesposey.com

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PSC No	
Scale	AS NOTED
Project No	8047-24
Date	FEBRUARY 19, 2025

Drawing Title  
**POWER RISER DIAGRAMS**



### LIGHTING FIXTURE (LUMINAIRE) SCHEDULE

TYPE	DESCRIPTION	LAMP	NOMINAL DESIGN LUMENS	MAXIMUM WATTAGE (EFFICACY)	BASIS-OF-DESIGN		LISTED EQUALS (NOTE A)	VOLTS	MOUNTING	NOTES
					MANUFACTURER	CATALOG NO.				
A	NOMINAL 4'-LONG SEMI-FROSTED ROUND LENSED STRIP LIGHT, STEEL HOUSING, WHITE FINISH, ACRYLIC LENS, 0-10V DRIVER	LED	7000 LM	31.8 W (157 LM/W)	LITHONIA	CLX L48 7000LM SEF RDL MVOLT G210 35K 80CRI	METALUX 4SNLED SERIES COLUMBIA MPS4 SERIES	120/277	PENDANT	1
B	NOMINAL 4'-LONG WRAPAROUND, STEEL HOUSING, WHITE FINISH, ACRYLIC LENS, 0-10V DRIVER	LED	4325 LM	42 W (110 LM/W)	LITHONIA	FMLWL 48 635 ZT MVOLT	METALUX NWS SERIES COLUMBIA RLW SERIES	120/277	CEILING SURFACE	
X	EXIT SIGN WITH DIE CAST ALUMINUM HOUSING, WHITE FINISH, RED LETTERING	RED LED	-	1.2W	LITHONIA	LE P W R	SURE-LITE CX SERIES DUAL-LITE SE SERIES	120/277	AS INDICATED	2, 3
Y	EMERGENCY BATTERY LIGHTING UNIT, LITHIUM BATTERY, WHITE FINISH	LED	1100LM	.47W	LITHONIA	ELM6L UVOLT LTP	SURE-LITE APEL SERIES DUAL-LITE LZ SERIES	120/277	WALL SURFACE 7'-6" AF	

**LIGHTING FIXTURE GENERAL NOTES:**  
A. MANUFACTURERS FOUND TO OFFER PRODUCTS SIMILAR TO THE BASIS-OF-DESIGN PRODUCT, INCLUDING PERFORMANCE, APPEARANCE, AND QUALITY. LISTED EQUALS, OR SUBSTITUTIONS, SHALL COMPLY WITH MINIMUM PERFORMANCE CRITERIA LISTED. ADDITIONAL DOCUMENTATION AND CALCULATIONS DEMONSTRATING COMPLIANCE SHOULD BE MADE AVAILABLE UPON REQUEST.  
B. LIGHTING FIXTURES SHALL BE PROVIDED WITH 3500K COLOR TEMPERATURE FOR INTERIOR FIXTURES AND 4000K COLOR TEMPERATURE FOR EXTERIOR FIXTURES, UNLESS OTHERWISE NOTED IN SCHEDULE ABOVE. WITHIN +/- 100K, AND WITHIN THREE MACADAM ELLIPSES. COLOR RENDERING INDEX (CRI) SHALL BE 80 OR GREATER, UNLESS OTHERWISE NOTED IN SCHEDULE ABOVE.

**LIGHTING FIXTURE SPECIFIC NOTES:**  
1. MOUNT AT SAME ELEVATION AS EXISTING LIGHTING FIXTURE.  
2. PROVIDE REQUIRED HARDWARE & ACCESSORIES FOR EXIT SIGN MOUNTING (WALL, CEILING, SUSPENDED) AS INDICATED ON DRAWINGS. COORDINATE WITH ARCHITECTURAL PLANS.  
3. PROVIDE SINGLE-FACE OR DOUBLE-FACE EXIT SIGN AS INDICATED ON DRAWINGS.

### WIRING SCHEDULE: DISTRIBUTION PANELBOARD DPL

277 / 480 VOLTS		1200 AMP MAIN BUS		SURFACE MOUNTED	
3 PHASE 4 WIRE		1200 AMP MAIN BREAKER (NOTE 1)		65,000 AIC RATING	
FEEDER NO.	EQUIPMENT SERVED	FEEDER SIZE	CIRCUIT BREAKER FRAME POLE AMP	CONNECTED LOAD (KVA)	
				A Ø	B Ø
1	ETR PANEL DPBR (NOTE 2)	4 #2	600 3	109.3	109.3
2	PANEL EM (VIA ATS-1)	4 #2 + #8G - 1 1/4" C	100 3	10.9	10.4
3	PANEL S1L (VIA ATS-2)	4 #250 + #4G - 2 1/2" C	250 3	98.6	98.9
4	SPACE AND PROVISIONS	-	250 3	-	-
5	SPACE AND PROVISIONS	-	250 3	-	-
6	SPACE AND PROVISIONS	-	100 3	-	-
7	SPACE AND PROVISIONS	-	100 3	-	-
8	SPACE AND PROVISIONS	-	100 3	-	-
9	SPACE AND PROVISIONS	-	100 3	-	-
10	SPACE AND PROVISIONS	-	100 3	-	-

CONNECTED LOAD = 651.5 KVA  
DEMAND LOAD = 387.5 KVA  
MIN AIC RATING = 65,000 AMPS SYMMETRICAL  
LOCATION: ELEC 11

**DISTRIBUTION PANELBOARD NOTES:**  
1. PROVIDE ENERGY REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATOR FOR EACH CIRCUIT BREAKER 1200A OR LARGER.  
2. PROVIDE 2 SETS (4 #850 + #10 - 3" CONDUIT) AND CONNECT TO EXISTING FEEDER IN EXISTING WIREWAY ABOVE.

### WIRING SCHEDULE: PANEL EM (SEE NOTE 1)

277 / 480 VOLTS		3 PHASE 4 WIRE		225 AMP BUS		SURFACE MOUNTED	
CIR. POLE	DESCRIPTION	WIRE/ CONDUIT	FUSE POLE AMP	KVA / Ø	CIR. POLE	DESCRIPTION	WIRE/ CONDUIT
				A Ø			FUSE POLE AMP
1	LTG LOWER LEVEL TOILET RMS	#10-3/4" C	1 20	1.4	0.6	2	PANEL EML
3	LTG GROUP TOILET ROOMS	#10-3/4" C	1 20	1.4	0.0	4	VIA XFMR TEMPL
5	LTG GROUP TOILET ROOMS	#10-3/4" C	1 20	1.4	0.0	6	#10G-3/4" C
7	LTG GROUP TOILET ROOMS	#10-3/4" C	1 20	1.4	0.0	8	SPARE
9	ETR UNKNOWN (NOTE 2)	1 20	2.0	2.0	1.5	10	LTG MAIN UPPER LEVEL TOILET
11	ETR UNKNOWN (NOTE 2)	1 20	2.0	2.0	2.0	12	ETR LTG 1ST FL AREA C
13	ETR UNKNOWN (NOTE 2)	1 20	2.0	2.0	2.0	14	ETR LTG EXITS/TS CAFETERIA
15	ETR UNKNOWN (NOTE 2)	1 30	1.5	1.5	2.0	16	ETR UNKNOWN (NOTE 2)
17	ETR UNKNOWN (NOTE 2)	1 20	1.5	1.5	2.0	18	ETR MAIN LEVEL LTG (NOTE 2)
19	ETR UNKNOWN (NOTE 2)	1 20	1.5	1.5	2.0	20	ETR UPPER LEVEL LTG (NOTE 2)
21	SPARE	1 20	2.0	2.0	2.0	22	ETR UNKNOWN (NOTE 2)
23	SPARE	1 20	-	-	-	24	SPARE
25	SPARE	1 20	-	-	-	26	SPARE
27	SPARE	1 20	-	-	-	28	SPARE
29	SPARE	1 20	-	-	-	30	SPARE
31	SPARE	1 20	-	-	-	32	SPACE AND PROVISIONS
33	SPARE	1 20	-	-	-	34	SPACE AND PROVISIONS
35	SPARE	1 20	-	-	-	36	SPACE AND PROVISIONS
37	SPARE	1 20	-	-	-	38	SPACE AND PROVISIONS
39	SPARE	1 20	-	-	-	40	SPACE AND PROVISIONS
41	SPARE	1 20	-	-	-	42	SPACE AND PROVISIONS

CONNECTED LOAD = 30.2 KVA  
DEMAND LOAD = 30.2 KVA  
MIN AIC RATING = 65,000 AMPS SYMMETRICAL  
LOCATION: STORAGE 14

**PANELBOARD NOTES:**  
1. PROVIDE FUSIBLE TYPE PANELBOARD AND INTEGRAL SURGE PROTECTIVE DEVICE.  
2. INTERCEPT AND SPLICE EXISTING BRANCH CIRCUIT AT PANELBOARD ENCLOSURE, PREVIOUSLY PANEL EM IN ELECTRICAL 11, TO BE USED AS A PULLBOX.  
3. PROVIDE WIRING IN CONDUIT WITH WIRING TO MATCH EXISTING WIRING AND MAKE CONNECTIONS.  
3. WHERE EXISTING CIRCUITS SHARE A COMMON NEUTRAL, PROVIDE CIRCUIT BREAKER HANDLE TIES.

### WIRING SCHEDULE: PANEL EML (SEE NOTE 1)

120 / 208 VOLTS		3 PHASE 4 WIRE		100 AMP BUS		SURFACE MOUNTED	
CIR. POLE	DESCRIPTION	WIRE/ CONDUIT	FUSE POLE AMP	KVA / Ø	CIR. POLE	DESCRIPTION	WIRE/ CONDUIT
				A Ø			FUSE POLE AMP
1	LTG BOILER ROOM (NOTE 2)	#10-3/4" C	3 20	0.6	0.6	2	SPARE
3	SPARE	1 20	-	-	-	4	SPARE
5	SPARE	1 20	-	-	-	6	SPARE
7	SPARE	1 20	-	-	-	8	SPARE
9	SPARE	1 20	-	-	-	10	SPARE
11	SPARE	1 20	-	-	-	12	SPARE
13	SPACE AND PROVISIONS	-	1	-	-	14	SPACE AND PROVISIONS
15	SPACE AND PROVISIONS	-	1	-	-	16	SPACE AND PROVISIONS
17	SPACE AND PROVISIONS	-	1	-	-	18	SPACE AND PROVISIONS

CONNECTED LOAD = 0.6 KVA  
DEMAND LOAD = 0.6 KVA  
MIN AIC RATING = 14,000 AMPS SYMMETRICAL  
LOCATION: STORAGE 14

**PANELBOARD NOTES:**  
1. PROVIDE FUSIBLE TYPE PANELBOARD AND INTEGRAL SURGE PROTECTIVE DEVICE.  
2. INTERCEPT FOUR (4) EXISTING 120V BOILER ROOM LIGHTING CIRCUITS FED FROM PANEL LBR-1,2,3,5 AND CONNECT TO NEW EMERGENCY LIGHTING CIRCUIT.

### WIRING SCHEDULE: PANEL S1L (SEE NOTE 1)

277 / 480 VOLTS		3 PHASE 4 WIRE		250 AMP BUS		SURFACE MOUNTED	
CIR. POLE	DESCRIPTION	WIRE/ CONDUIT	FUSE POLE AMP	KVA / Ø	CIR. POLE	DESCRIPTION	WIRE/ CONDUIT
				A Ø			BREAKER POLE AMP
1	BOILER 1	#12G-3/4" C	3 20	2.9	13.8	2	PUMP P-5
3	SPARE	1 20	-	-	-	4	SPARE
5	SPARE	1 20	-	-	-	6	SPARE
7	BOILER 2	#12G-3/4" C	3 20	2.9	13.8	8	PUMP P-6
9	SPARE	1 20	-	-	-	10	SPARE
11	SPACE AND PROVISIONS	-	1	-	-	12	SPACE AND PROVISIONS
13	PANEL S1RL	#8G-1 1/4" C	3 90	11.2	5.6	14	PUMP P-7
15	VIA XFMR TS1RL	-	-	-	-	16	SPACE AND PROVISIONS
17	SPACE AND PROVISIONS	-	1	-	-	18	SPACE AND PROVISIONS
19	SPARE	1 20	-	-	-	20	PUMP P-8
21	SPARE	1 20	-	-	-	22	SPACE AND PROVISIONS
23	SPACE AND PROVISIONS	-	1	-	-	24	SPACE AND PROVISIONS
25	SPACE AND PROVISIONS	-	1	-	-	26	EXIST REFRIGERANT
27	SPACE AND PROVISIONS	-	1	-	-	28	EXHAUST FAN
29	SPACE AND PROVISIONS	-	1	-	-	30	SPACE AND PROVISIONS
31	SPACE AND PROVISIONS	-	1	-	-	32	SPACE AND PROVISIONS
33	SPACE AND PROVISIONS	-	1	-	-	34	SPACE AND PROVISIONS
35	SPACE AND PROVISIONS	-	1	-	-	36	SPACE AND PROVISIONS
37	PUMP P-3 (NOTE 2)	#8G-1 1/4" C	3 150	20.4	20.4	38	PUMP P-4 (NOTE 2)
39	SPACE AND PROVISIONS	-	1	-	-	40	SPACE AND PROVISIONS
41	SPACE AND PROVISIONS	-	1	-	-	42	SPACE AND PROVISIONS

CONNECTED LOAD = 293.4 KVA  
DEMAND LOAD = 137.8 KVA  
MIN AIC RATING = 65,000 AMPS SYMMETRICAL  
LOCATION: STOR 14

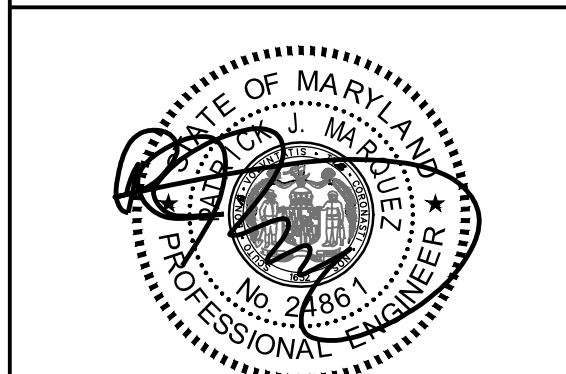
**PANELBOARD NOTES:**  
1. PROVIDE INTEGRAL SURGE PROTECTIVE DEVICE.  
2. PROVIDE SUB-FEED CIRCUIT BREAKER.

### WIRING SCHEDULE: PANEL S1RL (SEE NOTE 1)

120 / 208 VOLTS		3 PHASE 4 WIRE		225 AMP BUS		SURFACE MOUNTED	
CIR. POLE	DESCRIPTION	WIRE/ CONDUIT	FUSE POLE AMP	KVA / Ø	CIR. POLE	DESCRIPTION	WIRE/ CONDUIT
				A Ø			BREAKER POLE AMP
1	BOILER 1 CIRC PUMP	#10G-3/4" C	3 15	0.3	0.6	2	BOILER 1 CONTROL
3	BOILER 2 CONTROL	#10G-3/4" C	4 4	0.3	0.6	4	BOILER 2 CONTROL
5	BOILER 3	#10G-3/4" C	6 6	0.3	1.4	6	BOILER 3
7	BOILER 3 CONTROL CIRCUIT	#10G-3/4" C	3 15	0.3	0.5	8	BOILER 3 CONTROL CIRCUIT
9	SPACE AND PROVISIONS	-	1	-	-	10	WALK-IN COOLER LTG & FAN
11	SPACE AND PROVISIONS	-	1	-	-	12	WALK-IN FREEZER LIGHT
13	SPARE	1 20	-	-	-	14	SPARE
15	REC GENERATOR	#10-3/4" C	1 20	0.2	0.2	16	SPARE
17	EX WALK-IN FREEZER	#12G-3/4" C	3 20	1.5	1.1	18	EX WALK-IN FREEZER
19	COMPRESSOR	#12G-3/4" C	2 20	1.5	1.1	20	EX WALK-IN COOLER
21	COMPRESSOR	#12G-3/4" C	2 20	1.5	1.1	22	COMPRESSOR
23	ETR PIA SYSTEM	(NOTE 2)	1 20	-	-	24	SPACE AND PROVISIONS
25	ETR TELEPHONE OFFICE	(NOTE 2)	1 20	1.0	1.0	26	ETR BATTERY & ELEV LIGHT
27	ETR FIRE ALARM	(NOTE 2)	1 20	1.0	1.0	28	ETR REFRIG MONITOR CHILLER
29	REC HEALTH REFRIG	#10-3/4" C	1 20	0.9	1.0	30	ETR PLUG
31	REC MDF	#10-3/4" C	1 20	0.9	1.0	32	REC DATA RACK MDF
33	TWST-LOCK REC MDF	#10-3/4" C	1 20	0.2	1.0	34	REC DATA RACK MDF
35	BLOCK HEATER	#8G-1 1/4" C	2 40	3.0	3.0	36	SPARE
37	SPARE	1 20	-	-	-	38	SPARE
39	BATTERY CHARGER	#8-1" C	1 20	0.5	0.5	40	SPARE
41	SPARE	1 20	-	-	-	42	SPARE
43	SPARE	1 20	-	-	-	44	SPARE
45	SPARE	1 20	-	-	-	46	SPARE
47	SPARE	1 20	-	-	-	48	SPARE
49	SPACE AND PROVISIONS	-	1	-	-	50	SPACE AND PROVISIONS
51	SPACE AND PROVISIONS	-	1	-	-	52	SPACE AND PROVISIONS
53	SPACE AND PROVISIONS	-	1	-	-	54	SPACE AND PROVISIONS
55	SPACE AND PROVISIONS	-	1	-	-	56	SPACE AND PROVISIONS
57	SPACE AND PROVISIONS	-	1	-	-	58	SPACE AND PROVISIONS
59	SPACE AND PROVISIONS	-	1	-	-	60	SPACE AND PROVISIONS

CONNECTED LOAD = 32.1 KVA  
DEMAND LOAD = 30.5 KVA  
MIN AIC RATING = 10,000 AMPS SYMMETRICAL  
LOCATION: STOR 11

**PANELBOARD NOTES:**  
1. PROVIDE INTEGRAL SURGE PROTECTIVE DEVICE.  
2. INTERCEPT AND SPLICE EXISTING BRANCH CIRCUIT AT PANELBOARD ENCLOSURE, PREVIOUSLY PANEL EM IN ELECTRICAL 11, TO BE USED AS A PULLBOX.  
3. PROVIDE WIRING IN CONDUIT WITH WIRING TO MATCH EXISTING WIRING AND MAKE CONNECTIONS.  
3. WHERE EXISTING CIRCUITS SHARE A COMMON NEUTRAL, PROVIDE CIRCUIT BREAKER HANDLE TIES.



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.



Mechanical & Electrical Consulting Engineers  
11155 Red Run Boulevard, Suite 310  
Baltimore, Maryland 21117  
tel 410-265-6100  
jamesposey.com

Tag	Description	Date
	BID DOCUMENTS	02/19/25

PSC No	
Scale	AS NOTED
Project No	8047-24
Date	FEBRUARY 19, 2025
Drawing Title	SCHEDULES