

Generator and Electrical Equipment Replacement

SPRINGBROOK HIGH SCHOOL

201 VALLEY BROOK DRIVE, SILVER SPRING, MD 20904

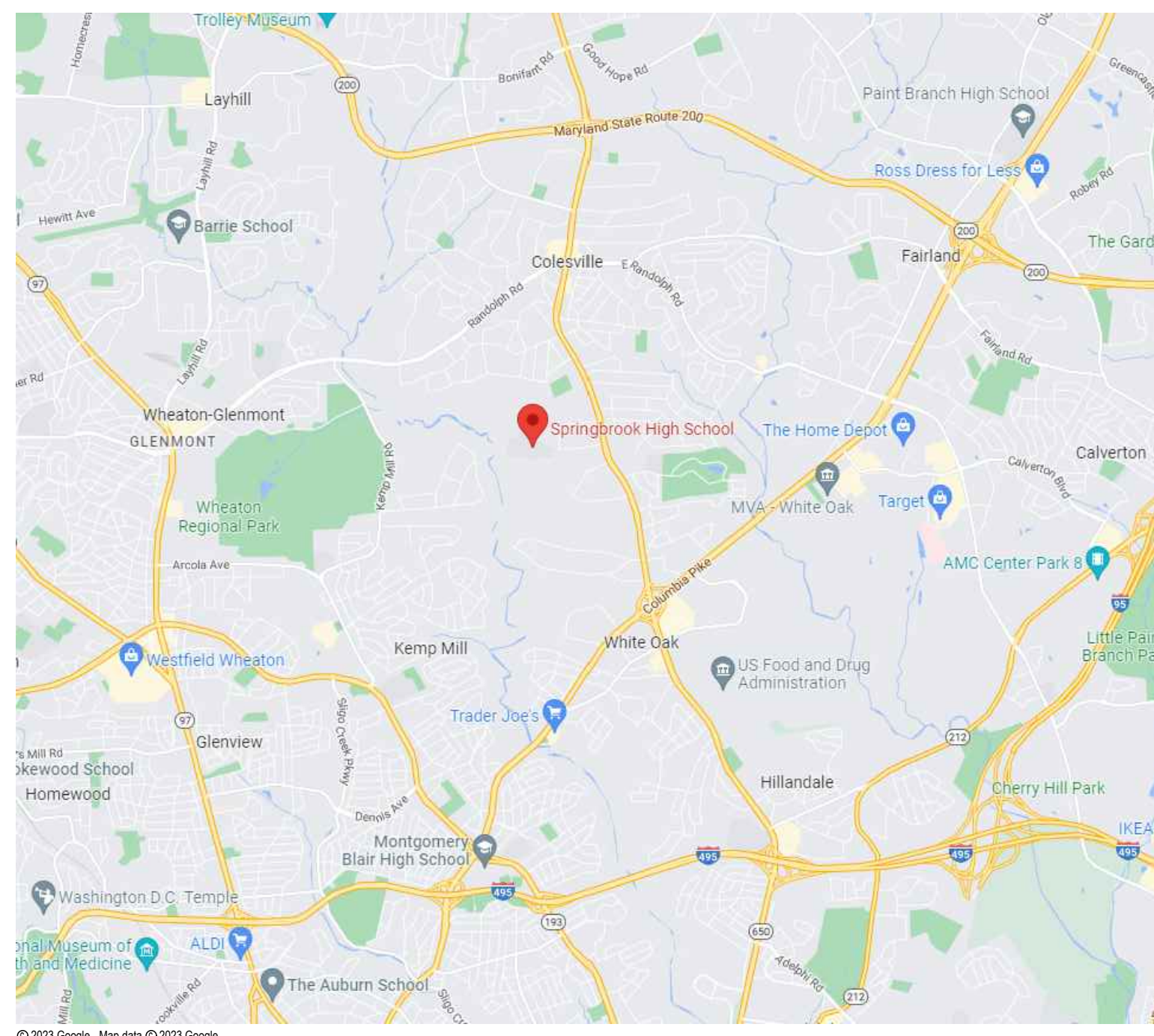
Montgomery County Public Schools

MECHANICAL AND ELECTRICAL ENGINEERS

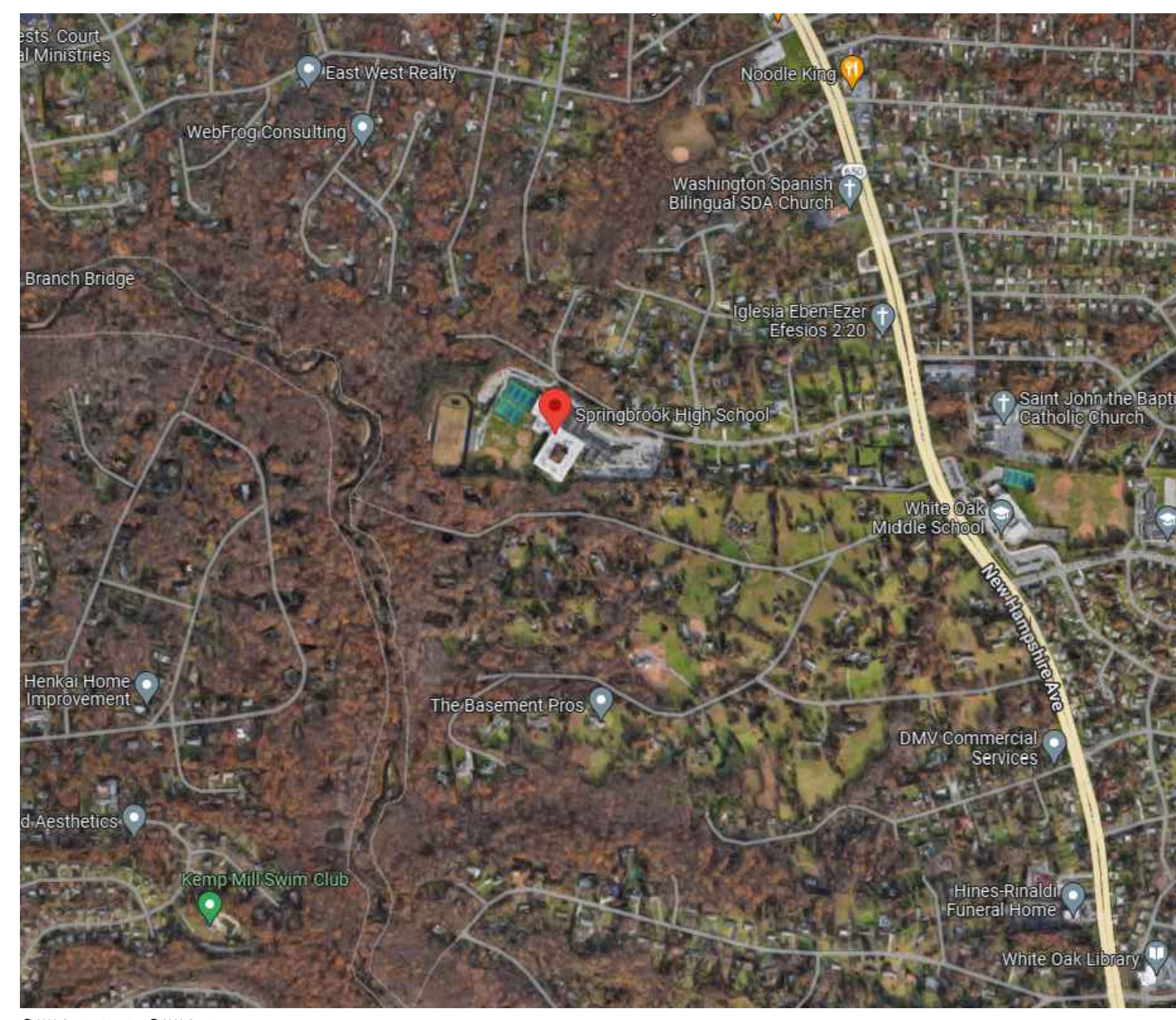
JAMES POSEY ASSOCIATES, INC.
11155 RED RUN BOULEVARD, SUITE 310
BALTIMORE, MARYLAND 21117
PHONE: 410.265.6100

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT
SPRINGBROOK HIGH SCHOOL
201 VALLEY BROOK DRIVE
SILVER SPRING, MD 20904
MONTGOMERY COUNTY PUBLIC SCHOOLS

VICINITY PLAN



AERIAL SITE PLAN

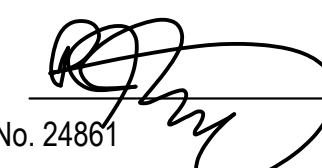


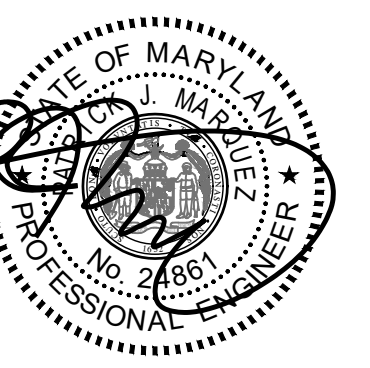
DRAWING INDEX

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PROFESSIONAL CERTIFICATION

These contract documents for Springbrook 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.

06/20/23 (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: 02-24-2024.

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.



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

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 AND PROPANE FUEL TANK.
 - 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 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.

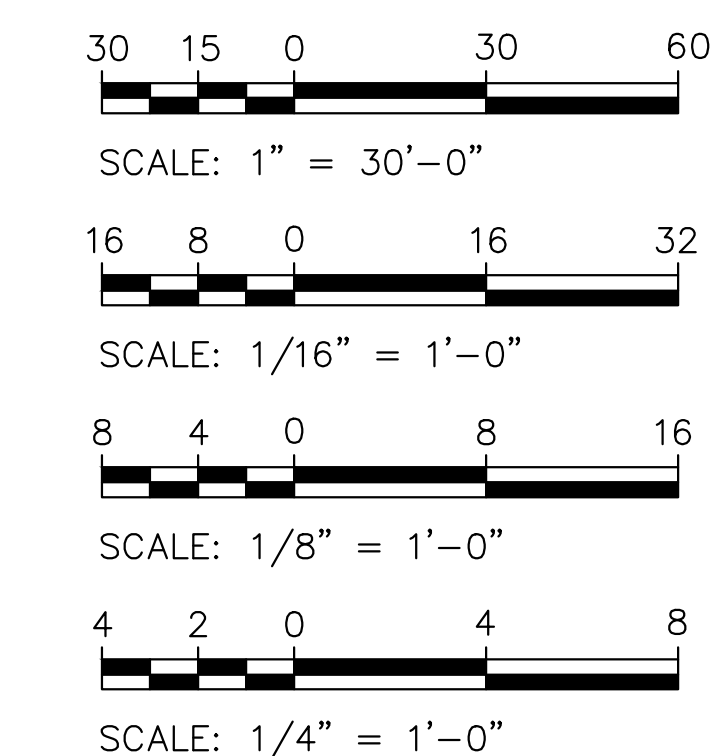
BOARD OF EDUCATION

DR. MONIFA B. MCKNIGHT	SUPERINTENDENT
GARY MOSESMAN	DIRECTOR I, DIVISION OF DESIGN & CONSTRUCTION
MS. BRENDA WOLFF	DISTRICT 5
MS. KARLA SILVESTRE	PRESIDENT / AT-LARGE
MS. GRACE RIVERA-OVEN	DISTRICT 1
MRS. SHEBRA L. EVANS	VICE PRESIDENT / DISTRICT 4
MS. LYNNE HARRIS	AT-LARGE
MS. JULIE YANG	DISTRICT 3
MRS. REBECCA SMONDROWSKI	DISTRICT 2
MR. ARVIN KIM	STUDENT MEMBER

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	3	
HIGH RISE (Y/N)	N	
FIRE ALARM (Y/N)	Y	
FULLY SPRINKLERED (Y/N)	Y	
TOTAL BUILDING FLOOR AREA	305,006 SF	

GRAPHIC SCALES

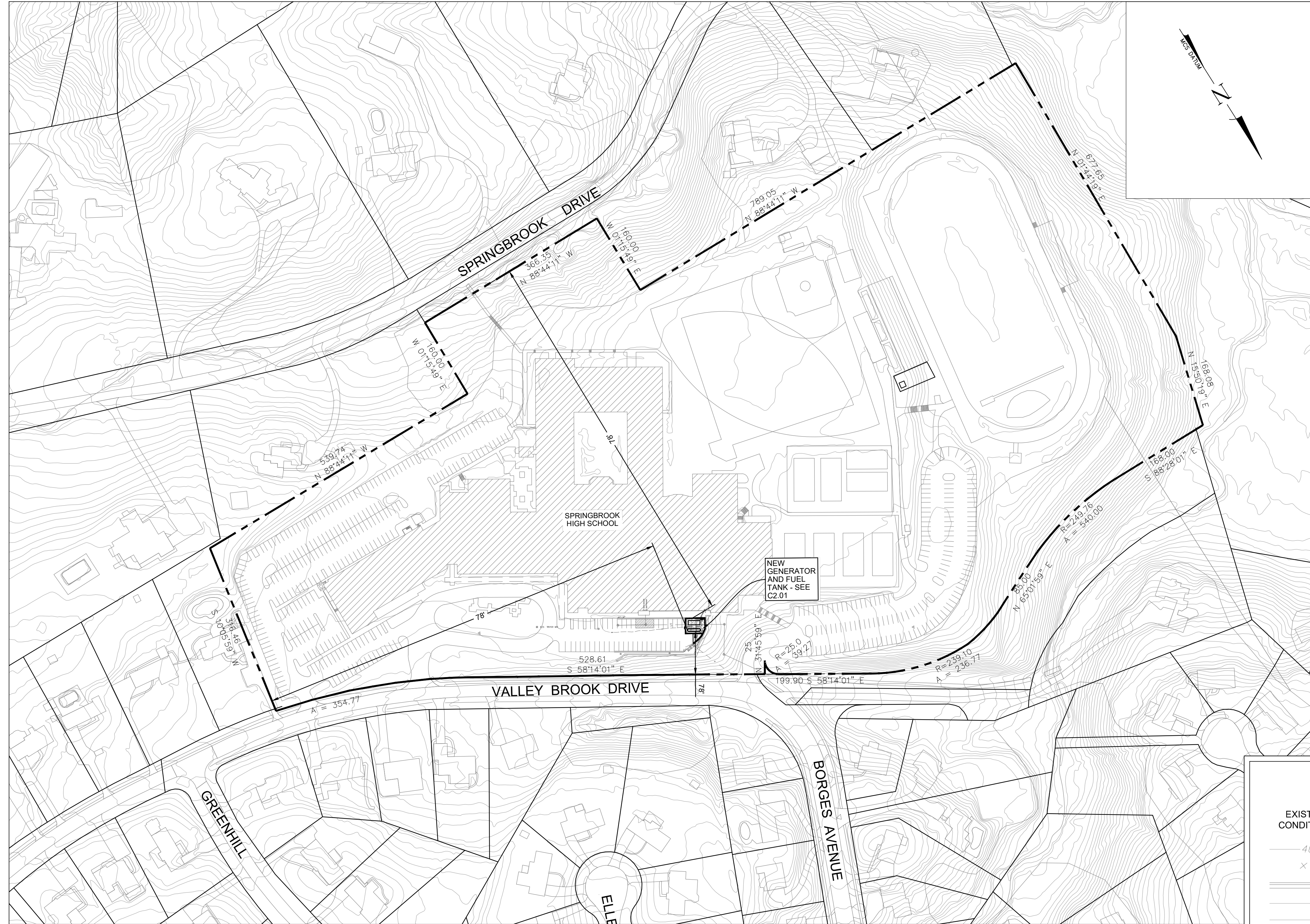
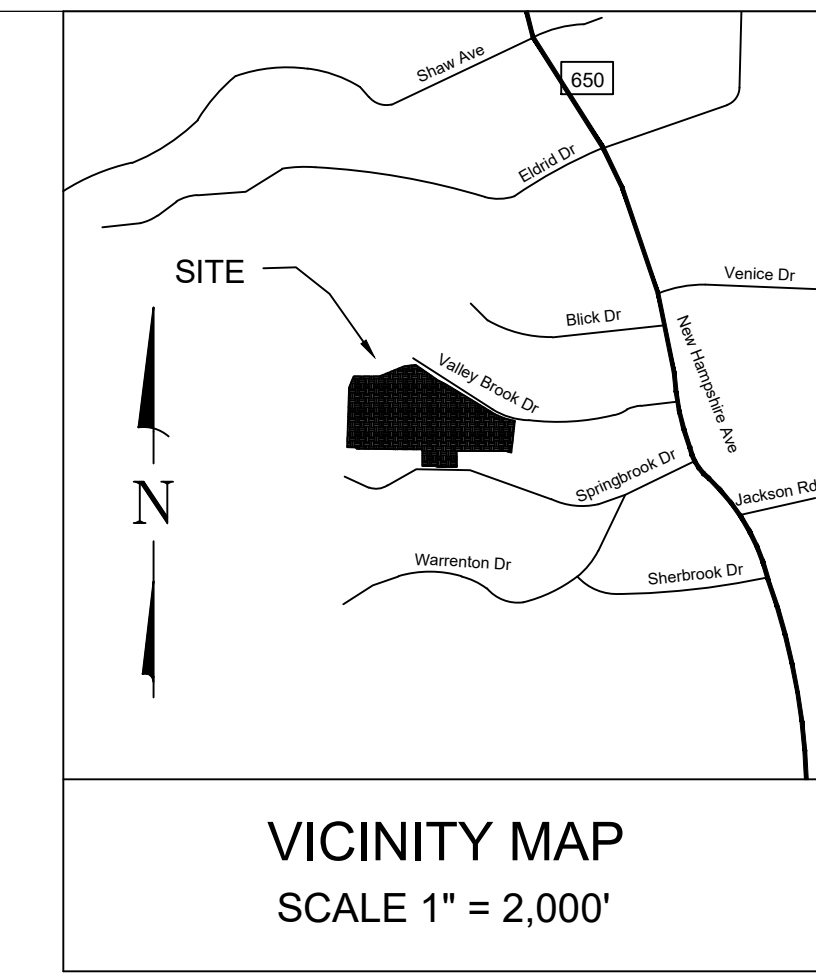


CAUTION: EXCEPT WHERE DIMENSIONS ARE INDICATED, GRAPHIC SCALE MUST BE USED.

Tag	Description	Date
	BID SET	06/20/23
PSC No.		
Scale	AS NOTED	
Project No.	7753-22	
Date	JUNE 20, 2023	
Drawing Title	TITLE SHEET	
Sheet No.	T-1	

SPRINGBROOK HIGH SCHOOL

201 VALLEY BROOK DR, SILVER SPRING, MD 20904

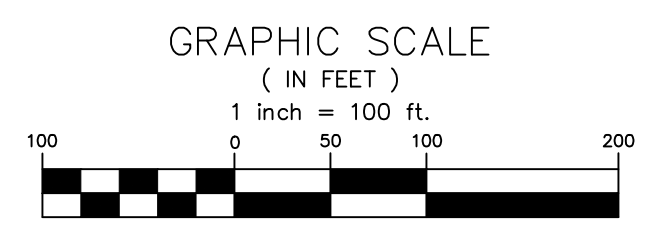


ABBREVIATIONS

FFE	FINISHED FLOOR ELEVATION
ELEV	ELEVATION
ENT	ENTRANCE
RCP	REINFORCED CONCRETE PIPE
TYP	TYPICAL
ME	MATCH EXISTING LINE AND GRADE
EX	EXISTING

LEGEND

EXISTING CONDITIONS		NEW CONDITIONS
— 402 —	CONTOUR (2FT)	— 402 —
× 403.25	SPOT ELEVATION	-+63.40
=====	CURB & GUTTER	=====
=====	ASPHALT PAVING	=====
=====	CONCRETE PAVING	=====
	BUILDING	
-----	PROPERTY BOUNDARY	
-----	LIMIT OF DISTURBANCE	



CONSTRUCTION NOTES

- CALL "MISS UTILITY" ("ONE CALL" AT 811 OR 1-800-257-7777) TWO FULL BUSINESS DAYS PRIOR TO BEGINNING ANY CONSTRUCTION. HOMEOWNERS & REGISTERED EXCAVATORS MAY FILE REQUESTS ONLINE AT <http://www.missutility.net>
- SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THIS OFFICE IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
- ASPHALT PAVING AND CONCRETE FOR CURB, WALKS AND RAMPS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MARYLAND STATE HIGHWAY ADMINISTRATION (MSHA) SPECIFICATIONS.
- WHEN TYING INTO EXISTING PAVING, SAW CUT PAVING EDGE TO PROVIDE A CLEAN, STRAIGHT AND VERTICAL JOINT. WHEN REMOVING EXISTING CURB OR SIDEWALK, REMOVE TO THE NEAREST JOINT.
- FINISHED GRADES REFER TO THE TOP OF SOIL, TOPSOIL, PAVEMENT OR WALKS. ALLOW FOR THICKNESS AS APPLICABLE WHEN GRADING.
- SLOPE SMOOTHLY BETWEEN INDICATED ELEVATIONS TO PROVIDE POSITIVE DRAINAGE OF ALL AREAS GRADED OR DISTURBED BY THIS CONSTRUCTION. MAXIMUM SLOPE ON EARTH-BANKS SHALL BE NO GREATER THAN 3:1.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING AND DOCUMENTING ALL REQUIRED INSPECTIONS AND CONSTRUCTION APPROVALS.
- ALL CURB RADI ARE DIMENSIONED AT FACE OF CURB UNLESS OTHERWISE NOTED.
- ALL ON-SITE CURB & GUTTER SHALL BE 6" STANDARD EXCEPT WHERE OTHERWISE NOTED.
- PROPOSED SITE LIGHTING, ELECTRIC, COMMUNICATION, & GAS WORK IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. REFER TO MECHANICAL, ELECTRICAL & PLUMBING PLANS. CONTRACTOR RESPONSIBLE FOR COORDINATING NEW WORK WITH UTILITY COMPANIES TO AVOID EXISTING AND PROPOSED UTILITIES AT POINT(S) OF CROSSING.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL BUILDING DIMENSIONS.

SITE NOTES

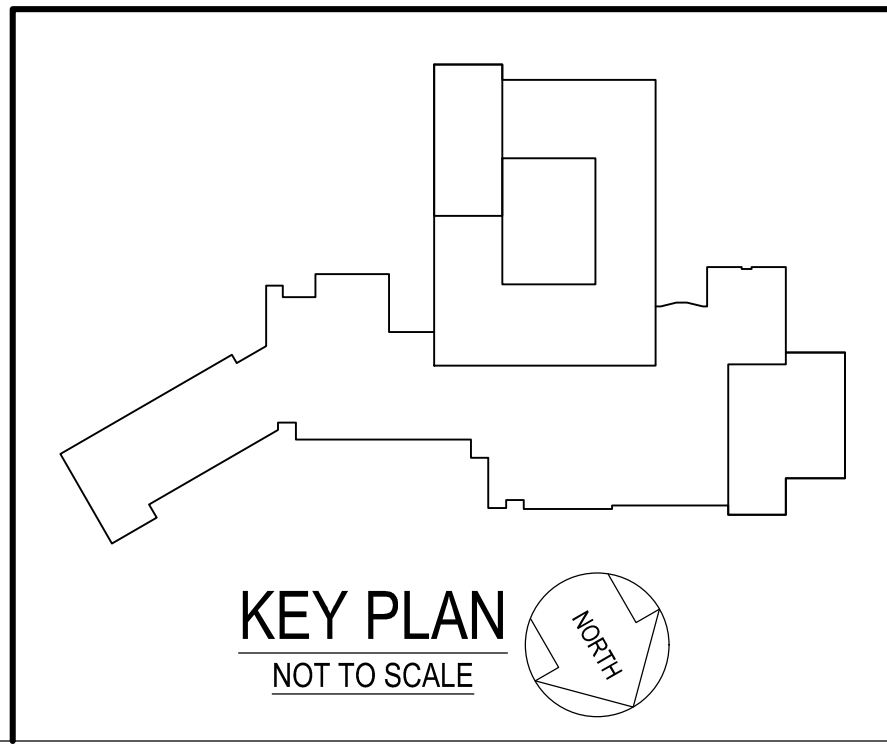
- TOPOGRAPHY AROUND AREA OF DEVELOPMENT BASED ON A TOPOGRAPHIC SURVEY PREPARED BY MHG, IN MAY OF 2023. ALL ELSE FROM MONTGOMERY PLANNING GIS AND MAPPING DATA DOWNLOADS.
- BOUNDARY INFORMATION FOR PROPERTY FROM A 1992 SITE GRADING PLAN FOR THE PROJECT TITLED "MODERNIZATION AND ADDITIONS" PREPARED BY SEYBOLT, GORE, NEWQUIST & BERLINSKY CIVIL ENGINEERS & LAND SURVEYORS. BOUNDARY FOR NEIGHBORING PROPERTIES FROM MONTGOMERY PLANNING GIS AND MAPPING DATA DOWNLOADS.
- EXISTING UTILITIES SHOWN ARE BASED ON VISIBLE SURVEYED APPURTENANCES AND PAINT MARKINGS, ACCESSIBLE STRUCTURES AND PLANS OF RECORD.
- THE PROJECT IS LOCATED WITHIN THE BOUNDARIES OF THE WHITE OAK MASTER PLAN.
- THE PROJECT IS LOCATED WITHIN GROWTH TIER I AREAS CURRENTLY SERVED BY COMMUNITY (PUBLIC) SEWER SYSTEMS.
- THE PROJECT IS LOCATED WITHIN WATER SERVICE CATEGORY W-1: AREAS SERVED BY COMMUNITY (PUBLIC) SYSTEMS THAT ARE EITHER EXISTING OR UNDER CONSTRUCTION.
- THE PROJECT IS LOCATED WITHIN SEWER SERVICE CATEGORY S-1: AREAS SERVED BY COMMUNITY (PUBLIC) SYSTEMS THAT ARE EITHER EXISTING OR UNDER CONSTRUCTION.
- THE PROJECT IS LOCATED WITHIN THE NORTHWEST BRANCH WATERSHED.
- THE PROJECT IS NOT BE SUBJECT TO MANDATORY REFERRAL REVIEW BY THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION (MNCPPC).
- THE PROJECT IS NOT SUBJECT TO THE PROVISIONS OF THE MONTGOMERY COUNTY FOREST CONSERVATION LAW, CHAPTER 22-A.
- THE TOTAL LAND DISTURBANCE ASSOCIATED WITH THE PROPOSED CONSTRUCTION IS LESS THAN 5000 SQUARE FEET AND/OR WILL RESULT IN LESS THAN 100 CUBIC YARDS OF EARTH MOVEMENT.
- VALLEY BROOK DRIVE IS OPERATED AND MAINTAINED BY THE MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION.

ZONING ANALYSIS FOR RE-200

ZONING REQUIREMENT/DESCRIPTION	PERMITTED / REQUIRED	PROVIDED PER PLAN	MEETS REQUIREMENT (Y/N)
MINIMUM LOT AREA: 59-4.4.7.B.1	20,000 SF	1,094,700 SF	Y
ACCESSORY STRUCTURE MIN FRONT SETBACK: 59-4.4.7.B.1	65 FT	78 FT	Y
ACCESSORY STRUCTURE MIN SIDE SETBACK: 59-4.4.7.B.1	12 FT	748 FT	Y
ACCESSORY STRUCTURE MIN REAR SETBACK: 59-4.4.7.B.1	7'	711 FT	Y

811
Know what's below.
Call before you dig.

FOR UTILITY LOCATIONS CONTACT "ONE CALL" AT 811 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION



GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT

SPRINGBROOK HIGH SCHOOL

201 VALLEY BROOK DRIVE
SILVER SPRING, MD 20904

MONTGOMERY COUNTY PUBLIC SCHOOLS

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James Posey Associates
Engineering Your Vision

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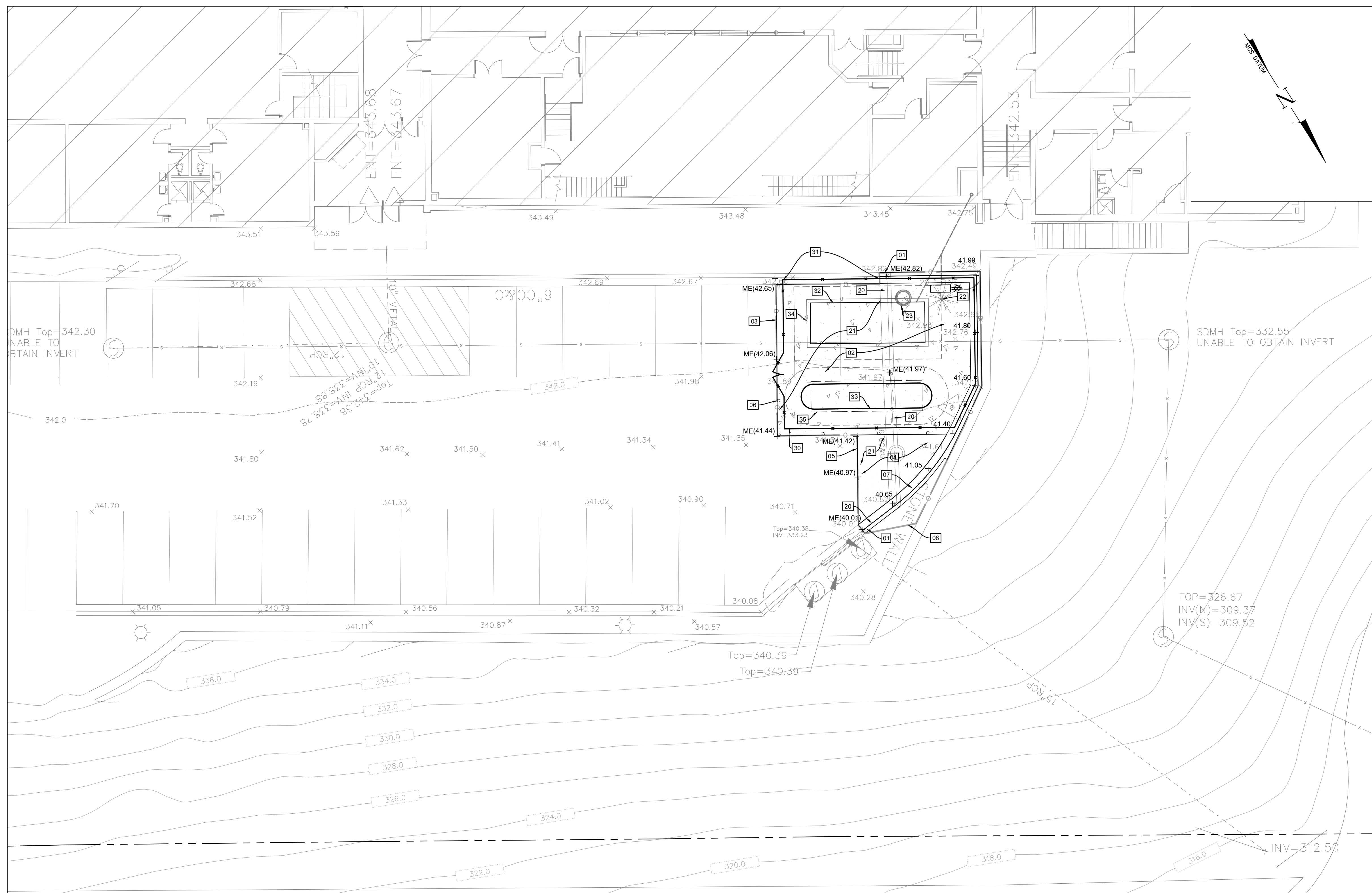
TAX MAP J0663 JB53C 21NE01
5TH ELECTION DISTRICT MONTGOMERY COUNTY MARYLAND
LOT 1 BLOCK A LOTS 11 THRU 26 BLK 1, SPRINGBROOK, EST.

PLAN PREPARED BY:

MHG
CIVIL ENGINEERING
LAND SURVEYING
LANDSCAPE ARCHITECTURE
LAND PLANNING

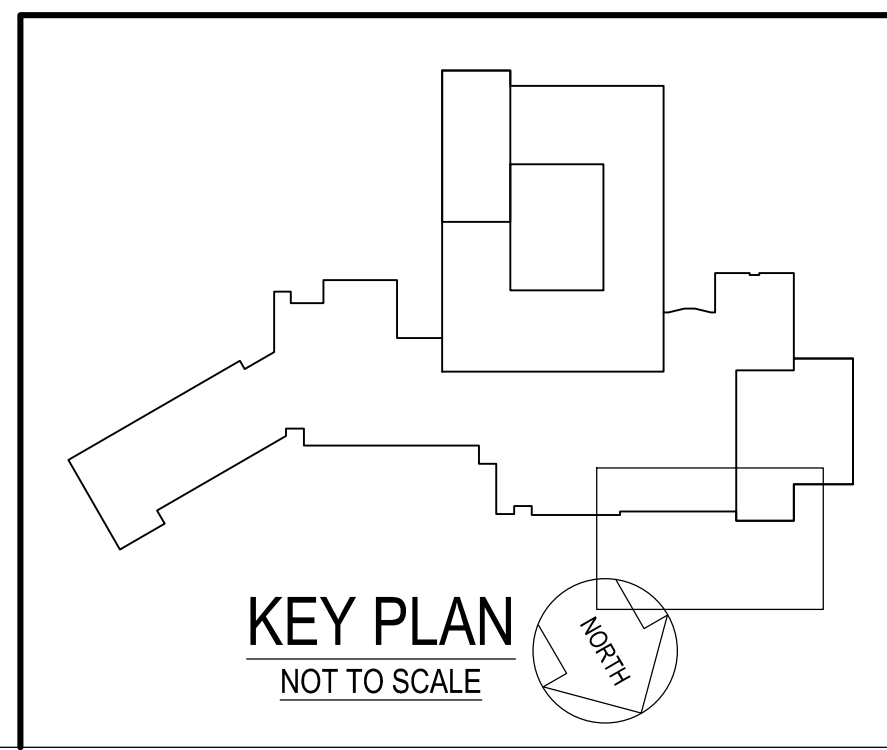
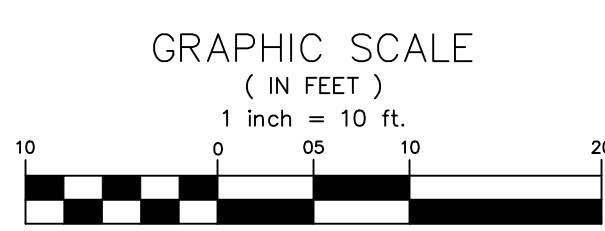
9220 Wightman Road, Suite 120
Montgomery Village, MD 20886
Phone: 301.670.0840
www.mhgpa.com

Tag	Description	Date
	BID SET	06/20/23
PSC No		
Scale	1" = 100'	
Project No	7753-22	
Date	JUNE 20, 2023	
Drawing Title	COVER SHEET	
Sheet No:	C0.01	



KEY NOTES

- 01 NEW CURB & GUTTER (TYPICAL) - 1/C2.11
- 02 NEW CONCRETE PAVEMENT SECTION - 2/C2.11, 3/C2.11, 4/C2.11
- 03 NEW CONCRETE PAVING EDGE OF SLAB (TYPICAL) - 3/C2.11
- 04 NEW ASPHALT PAVEMENT SECTION - 5/C2.11
- 05 EXISTING PAVEMENT TIE IN - 7/C2.11
- 06 NEW UTILITY BOLLARD - 6/C2.11
- 07 40' RADIUS AT FACE OF CURB
- 08 LIMIT OF DISTURBANCE
- 20 EXISTING CURB AND GUTTER TO BE REMOVED
- 21 REMOVE ASPHALT TO BASE COURSE LAYER
- 22 EXISTING PINE TREE TO BE REMOVED
- 23 EXISTING GARBAGE BIN TO BE SALVAGED AND RELOCATED PER MCPS
- 30 NEW CHAIN LINK FENCE - SEE MEP
- 31 SURFACE MOUNT CHAIN LINK FENCE TO EXISTING CURB AND GUTTER.
- 32 NEW GENERATOR - SEE MEP
- 33 NEW 2,000 GAL ABOVE GROUND PROPANE TANK - SEE MEP
- 34 FLAT CONCRETE PAD FOR MOUNTING GENERATOR. SEE MEP
- 35 FLAT CONCRETE PAD FOR MOUNTING PROPANE TANK - SEE MEP



GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT
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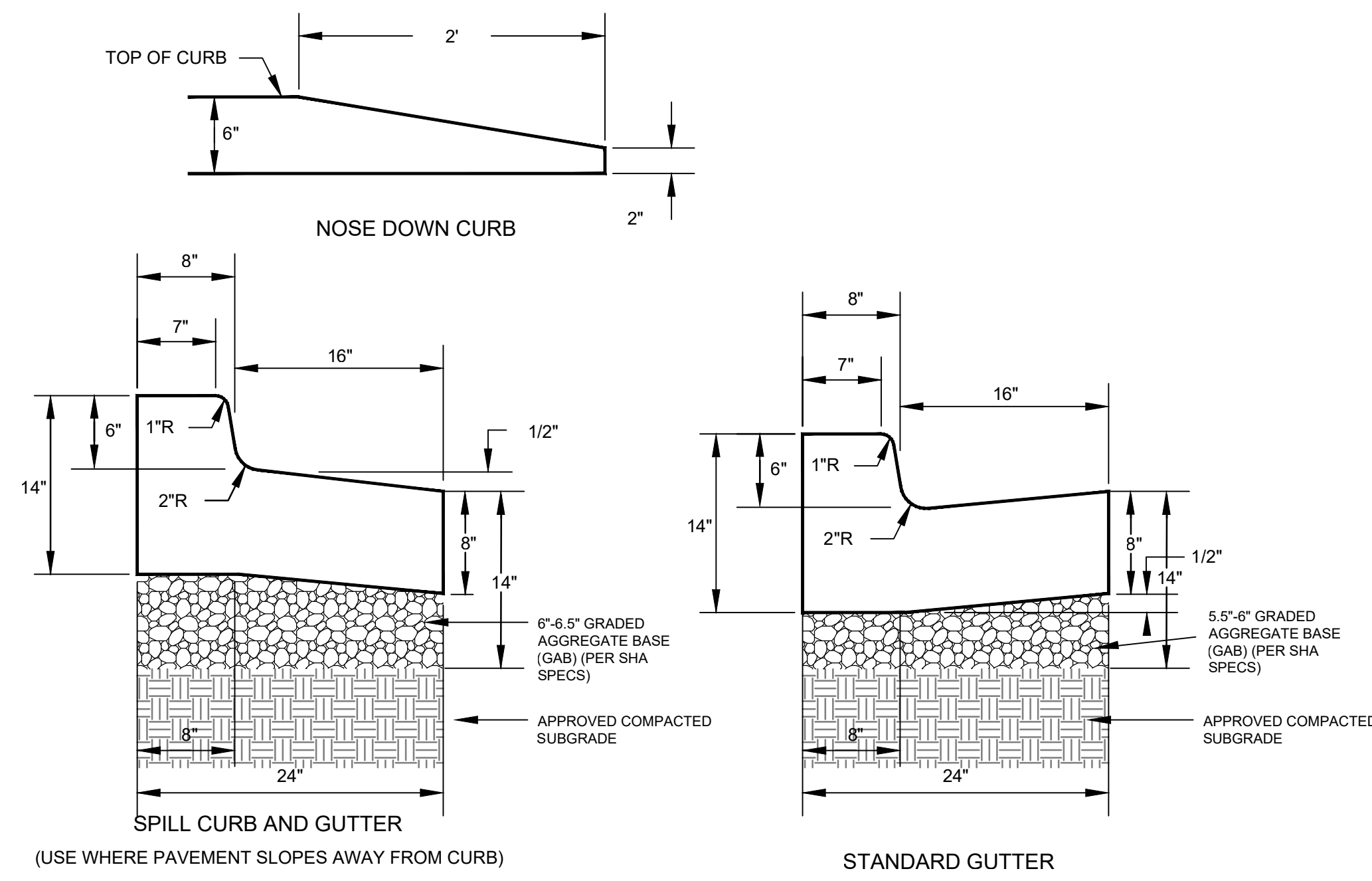
TAX MAP J0663 JW5SC 21NE01
 5TH ELECTION DISTRICT MONTGOMERY COUNTY MARYLAND
 LOT 7, BLOCK A, LOTS 1 THROUGH 26, BLK 1, SPRINGBROOK, EST.

PLAN PREPARED BY:
MHG
 CIVIL ENGINEERING
 LAND SURVEYING
 LANDSCAPE ARCHITECTURE
 LAND PLANNING
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 Montgomery Village, MD 20886
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 www.mhga.com

Tag	Description	Date
	BID SET	06/20/23

PSC No	
Scale	1" = 10'
Project No	7753-22
Date	JUNE 20, 2023
Drawing Title	SITE PLAN

Sheet No:
C2.01

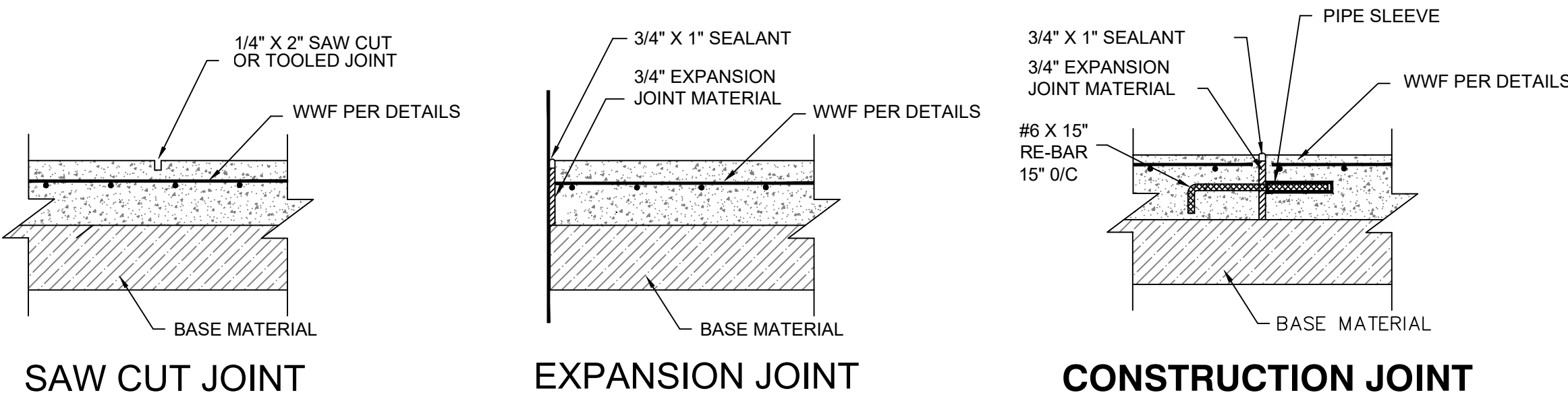


1 6" CONCRETE CURB AND GUTTER DETAILS

C2.11 NTS

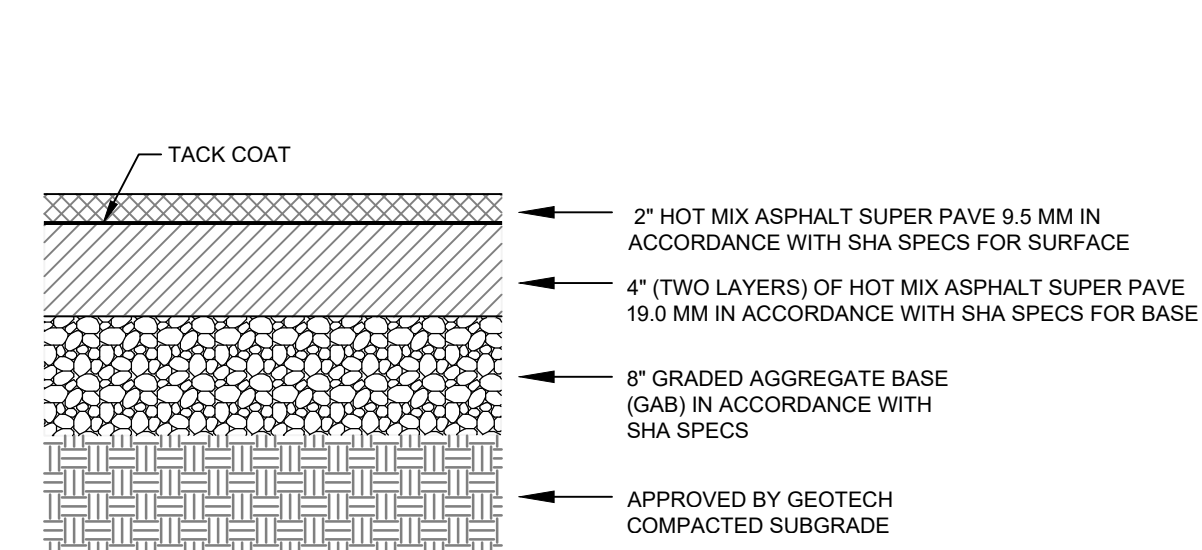
GENERAL NOTES

- USE SHA CONCRETE MIX #6 (4500 PSI).
- IN AREAS WHERE GUTTER ADJOINS CONCRETE PAVEMENT, PROVIDE 3/4" x 1 1/2" DOWEL RODS AT 12" O.C.
- PROVIDE COMPACTED AGGREGATE FILL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- REFER TO MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.
- PROVIDE SMOOTH TRANSITION FROM STANDARD GUTTER TO SPILL GUTTER IN LOCATIONS SHOWN ON DRAWINGS AND IN ANY LOCATIONS WHERE PAVEMENT GRADING SLOPES AWAY FROM THE CURB.
- PROVIDE SMOOTH TRANSITION TO DEPRESSED CURBS AS NEEDED.
- AT LOCATIONS OF THE IN-TO EXISTING CURB, REPLACE CURB TO THE NEAREST JOINT.
- THE STANDARD DISTANCE BETWEEN JOINTS SHALL BE TEN FEET MAXIMUM & MINIMUM DISTANCES SHALL BE 13 FEET AND 5 FEET RESPECTIVELY. IN AREAS WHERE GUTTER ADJOINS CONCRETE PAVEMENT, JOINTS SHALL BE FORMED IN LINE WITH THE TRANSVERSE JOINTS IN PAVEMENT.
- EXPANSION JOINT MATERIAL SHALL BE 1/2" INCH PREFORMED CORK, TRIMMED AND SEALED WITH NON-STAINING TWO COMPONENT POLYSULFIDE OR POLYURETHANE ELASTOMETRIC TYPE SEALANT, COMPLYING WITH ASTM-C920. ALL OTHER JOINTS SHALL BE SEALED ACROSS THE ENTIRE JOINT PORTION AND UP THE FACE OF CURB.
- THE CURB AND GUTTER SECTION SHOWN IS NOT BASED ON A GEOTECHNICAL REPORT. THE CONTRACTOR MUST HAVE THE SOIL TESTED AT THE TIME OF CONSTRUCTION BY A PROFESSIONAL GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER IS TO VERIFY THE ADEQUACY OF THE SECTION BASED ON THE SOIL TEST RESULTS AND THE PROPOSED USES.
- THE SUBBASE IS TO BE PREPARED IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND RECOMMENDATIONS BY A PROFESSIONAL GEOTECHNICAL ENGINEER. THE SUBBASE IS TO BE TESTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER AFTER THE GRADING OPERATIONS ARE COMPLETE AND PRIOR TO CURB AND GUTTER CONSTRUCTION. THE GEOTECHNICAL ENGINEER IS TO PROVIDE WRITTEN CONFIRMATION TO THE OWNER AND CONTRACTOR THAT THE SUBBASE HAS BEEN PREPARED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND THAT THE PAVEMENT SECTION SHOWN HEREON IS SUITABLE FOR THE PROPOSED USE(S).



4 CONCRETE PAVING - JOINT DETAILS

C2.11 NTS



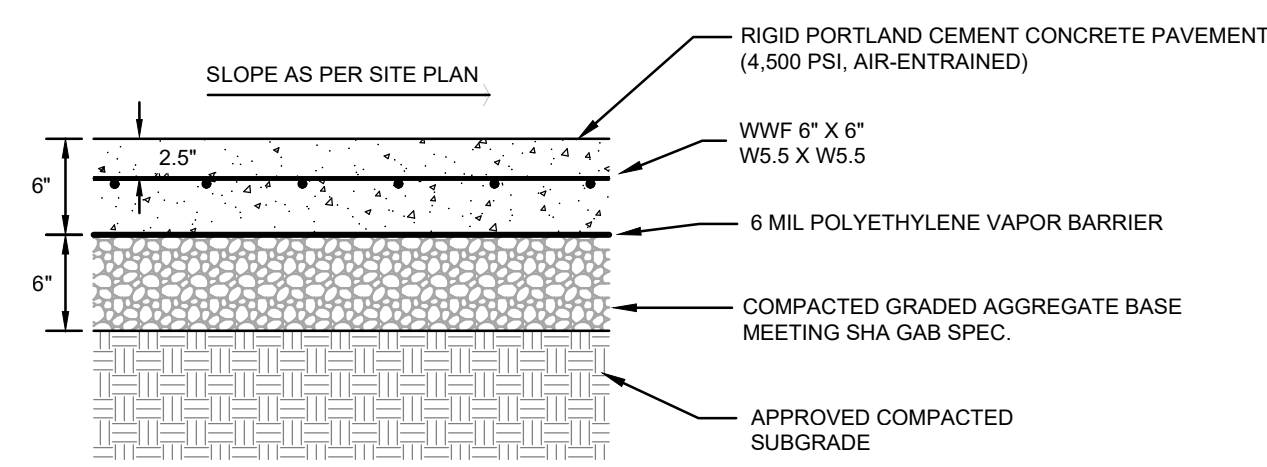
THE ASPHALT PAVING SECTION SHOWN IS THE MONTGOMERY COUNTY PUBLIC SCHOOLS - DIVISION OF CONSTRUCTION STANDARD & IS NOT BASED ON A GEOTECHNICAL REPORT. THE CONTRACTOR MUST HAVE THE SOIL TESTED AT THE TIME OF CONSTRUCTION BY A PROFESSIONAL GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER IS TO VERIFY THE ADEQUACY OF THE SECTION BASED ON THE SOIL TEST RESULTS AND THE PROPOSED USES.

MACRIS, HENDRICKS, & GLASCOCK, P.A. MAKES NO GUARANTEE OR WARRANTY EITHER ASSUMED OR IMPLIED AS TO THE SUITABILITY OF THESE PAVING SECTIONS AND ASSUMES NO LIABILITY IN PROVIDING THE PAVING SECTIONS SHOWN ABOVE ON OUR DRAWINGS. THESE PAVING SECTIONS ARE PLACED HERE SOLELY FOR THE CONVENIENCE OF THE OWNER AND THE CONTRACTOR.

*THE SUBBASE IS TO BE PREPARED IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND RECOMMENDATIONS BY A PROFESSIONAL GEOTECHNICAL ENGINEER. THE SUBBASE IS TO BE TESTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER AFTER THE GRADING OPERATIONS ARE COMPLETE AND PRIOR TO PAVEMENT CONSTRUCTION. THE GEOTECHNICAL ENGINEER IS TO PROVIDE WRITTEN CONFIRMATION TO THE OWNER AND CONTRACTOR THAT THE SUBBASE HAS BEEN PREPARED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND THAT THE PAVEMENT SECTION SHOWN HEREON IS SUITABLE FOR THE PROPOSED USE(S).

5 MCPs STANDARD ASPHALT PAVING SECTION

C2.11 NTS



CONTROL JOINTS (12-15' O.C.):
 1/4" x 1 1/2" SAW CUT OR TOOLED WITH SEALANT

EXPANSION/CONSTRUCTION JOINTS (36-45' O.C.):
 3/4" x 1 1/2" DOWELS 1/2" O.C. W/ 3/4" I.D. x 8" PLASTIC PIPE SLEEVE
 3/4" PREFORMED EXPANSION JOINT FILLER WITH 1/2" x 1" SEALANT

ISOLATION JOINTS:
 3/4" PREFORMED EXPANSION JOINT FILLER WITH 1/2" x 1" SEALANT
 REFER TO CURB & GUTTER DETAILS FOR TREATMENT ALONG GUTTER

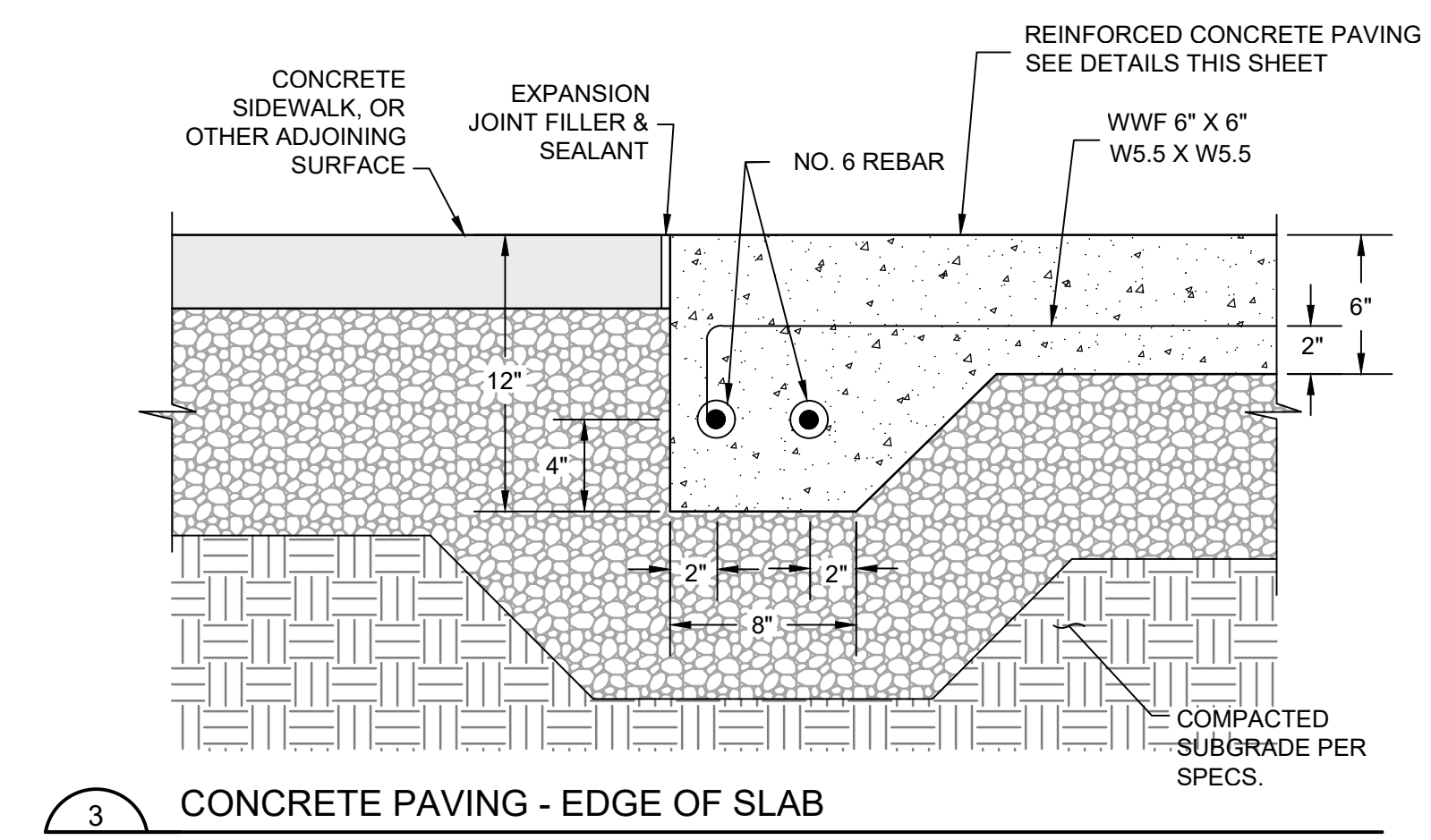
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2 MCPs STD. CONCRETE PAVING SECTION

C2.11 NTS 1. REFER TO 4/C2.11 FOR CONCRETE PAVING JOINT DETAILS.



3 CONCRETE PAVING - EDGE OF SLAB

C2.11 NTS

CONCRETE PAVING SPECIFICATIONS:

ALL CONCRETE PAVING WORK NOT SHOWN OR SPECIFIED SHALL COMPLY WITH THE LATEST EDITION OF SHA STANDARD SPECIFICATIONS, SECTION 520.

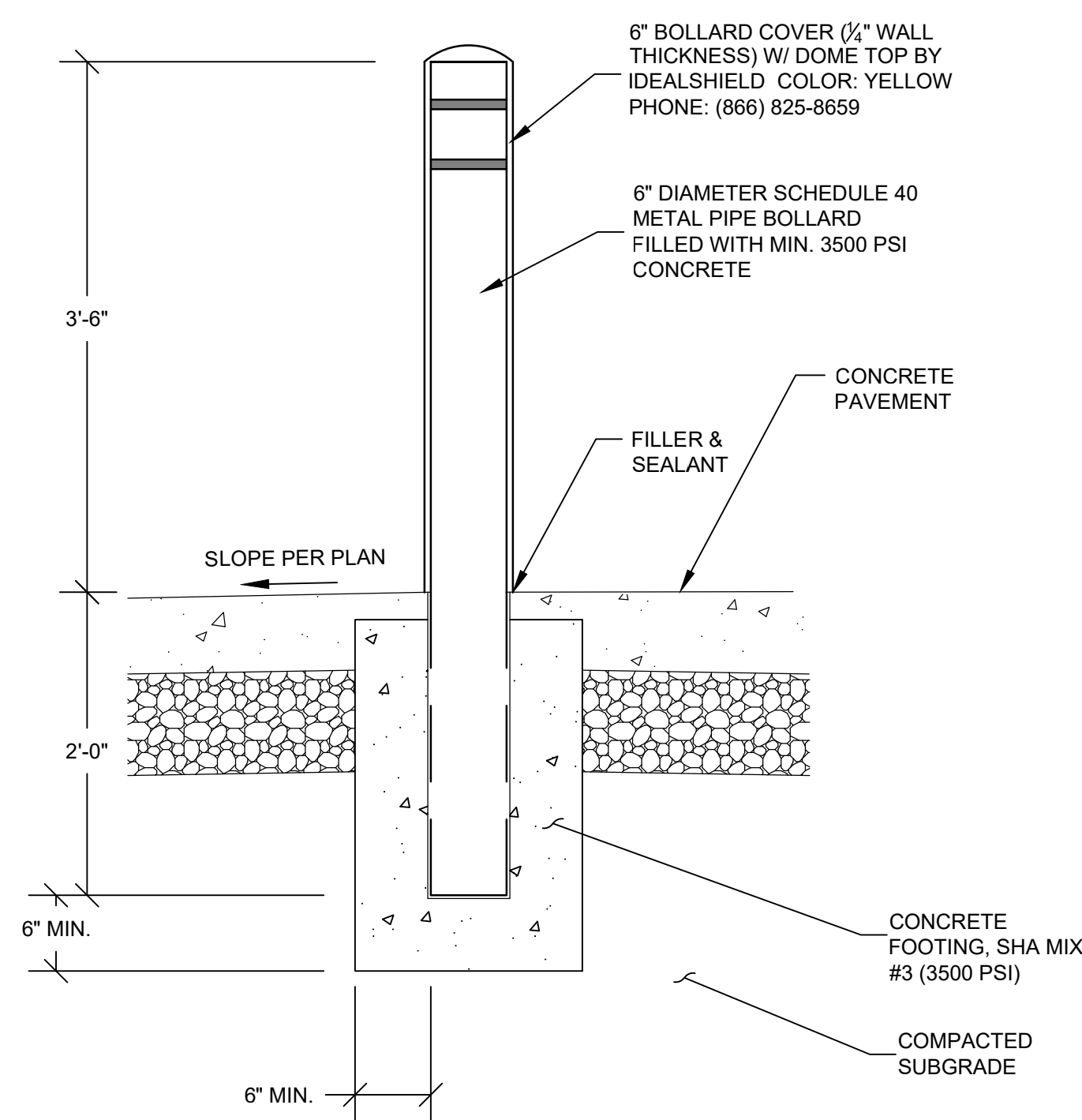
RIGID PORTLAND CEMENT CONCRETE, Fc=4,500 PSI, AIR ENTRAINED

FINAL SURFACE FINISH

AFTER THE CONCRETE HAS BEEN FLOATED AND THE SURFACE CORRECTED, IT SHALL BE FINISHED BY DRAGGING THE SURFACE IN A LONGITUDINAL DIRECTION WITH BURLAP. THIS DRAG SHALL BE WORKED WITH A LONGITUDINAL MOTION, CARE BEING USED NOT TO PERMIT THE EDGES TO DIG INTO THE SURFACE OF THE CONCRETE OR TO WORK THE CROWN OUT OF THE PAVEMENT.

AFTER THE WATER SHEEN HAS PRACTICALLY DISAPPEARED, BUT PRIOR TO ANY INITIAL SET, THE SURFACE SHALL BE GIVEN THE FINAL FINISH BY BROOMING. THE BROOM SHALL BE MOVED FROM ONE SIDE OF THE PAVEMENT TO THE OTHER WITHOUT INTERRUPTION. THE TRAVEL OF THE BROOM SHALL OVERLAP A SMALL AMOUNT. THE BROOMING SHALL BE PERPENDICULAR TO THE CENTER LINE OF THE PAVEMENT AND SO EXECUTED THAT THE CORRUGATIONS THUS PRODUCED WILL BE OF UNIFORM CHARACTER AND WIDTH AND NOT MORE THAN 1/8 INCH IN DEPTH. WITH THE RESULTING SURFACE FREE FROM OBJECTIONABLE DEPRESSIONS OR PROJECTIONS THAT MIGHT BE FORMED BY IMPROPER HANDLING. THE BROOMING MUST BE COMPLETED BEFORE THE EDGES OF THE PAVEMENT AND JOINTS ARE ROUNDED.

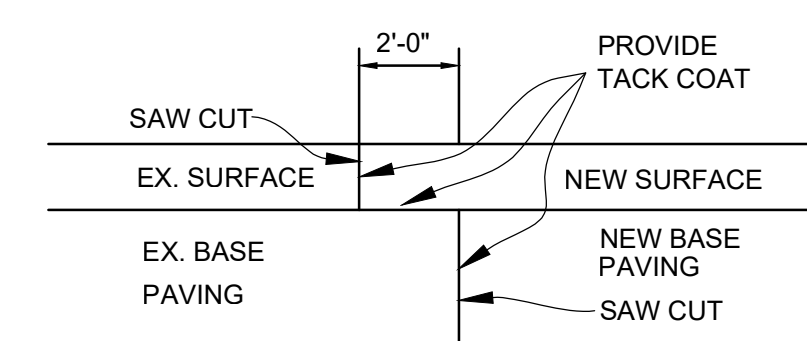
THE SURFACE OF THE PAVEMENT ADJACENT TO ALL CURBS, I.E., IN THE FLOW LINE OF THE GUTTER, SHALL BE TROWELED AND FINISHED WITH HAIR BROOMS.



6 UTILITY BOLLARD

C2.11 NTS

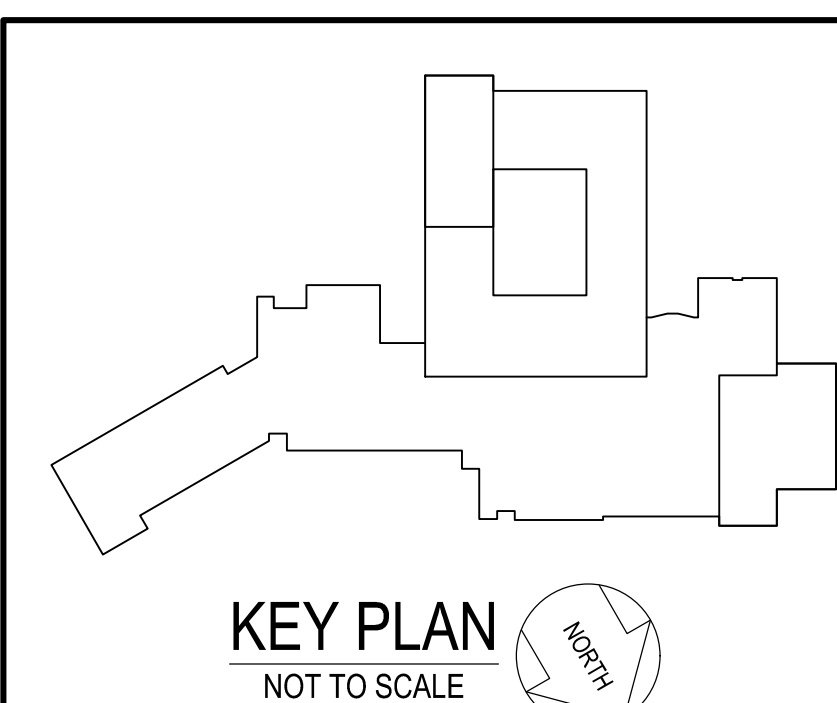
- NOTES:
- BOLLARDS TO BE PAINTED TRAFFIC YELLOW PER MDOT-SHA STANDARDS



IN PAVEMENT TIE-IN OR WIDENING AREAS, OVERLAP EX. BASE PAVING WITH NEW SURFACE PAVING AS SHOWN ABOVE.

7 EXISTING PAVEMENT TIE-IN DETAIL

C2.11 NTS



KEY PLAN
NOT TO SCALE

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT
SPRINGBROOK HIGH SCHOOL
 201 VALLEY BROOK DRIVE
 SILVER SPRING, MD 20904
 MONTGOMERY COUNTY PUBLIC SCHOOLS

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TAX MAP J0663 JWSSC 21HE01
 5TH ELECTION DISTRICT MONTGOMERY COUNTY MARYLAND
 LOT 7 BLOCK A LOT 11 TRBL 26 BLK 1, SPRINGBROOK, EST.

PLAN PREPARED BY:
MHG
 CIVIL ENGINEERING
 LAND SURVEYING
 LANDSCAPE ARCHITECTURE
 LAND PLANNING
 9220 Wightman Road, Suite 120
 Montgomery Village, MD 20886
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 www.mhga.com

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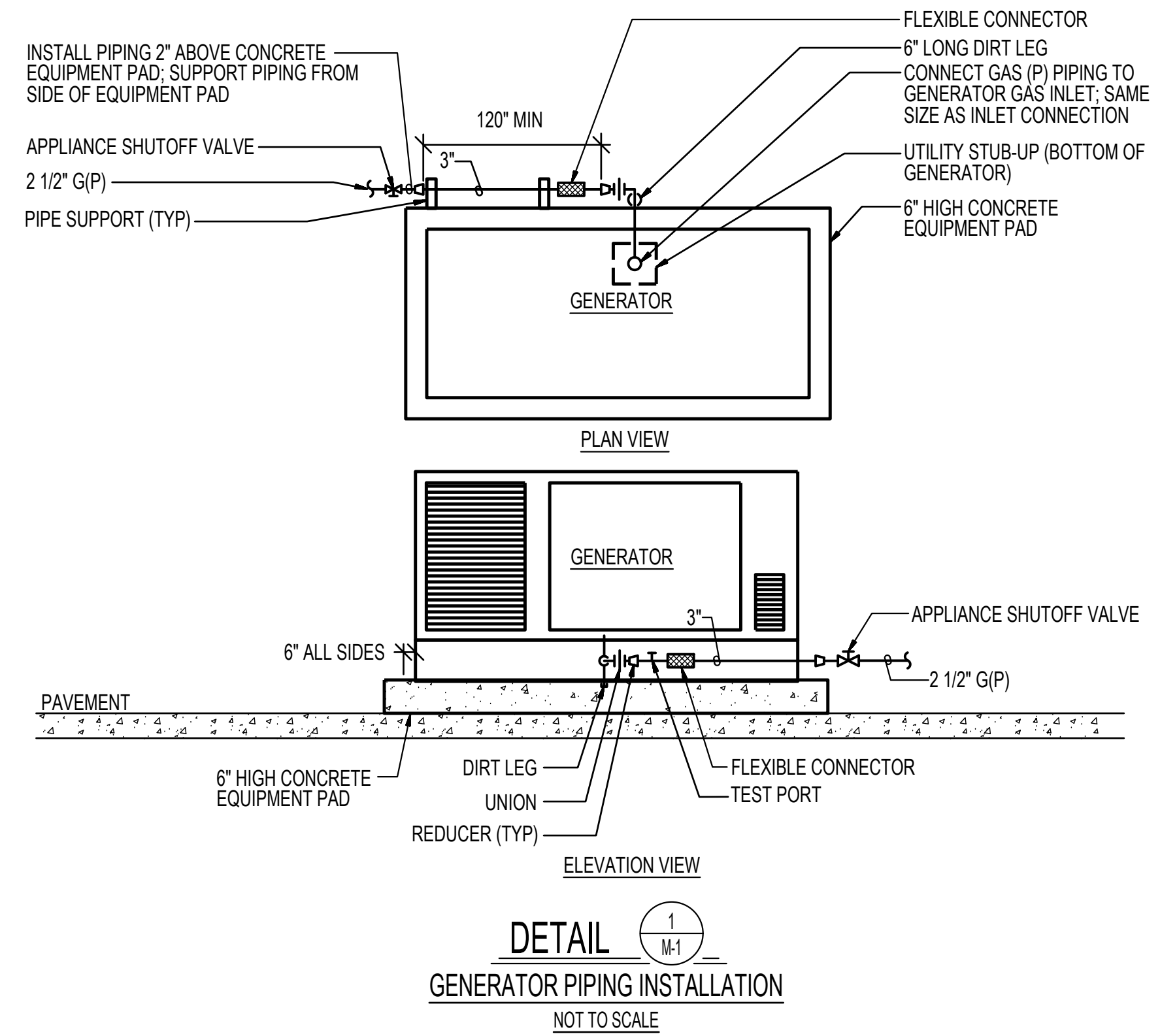
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Scale	NTS
Project No	7753-22
Date	JUNE 20, 2023
Drawing Title	DETAILS

Sheet No:

C2.11

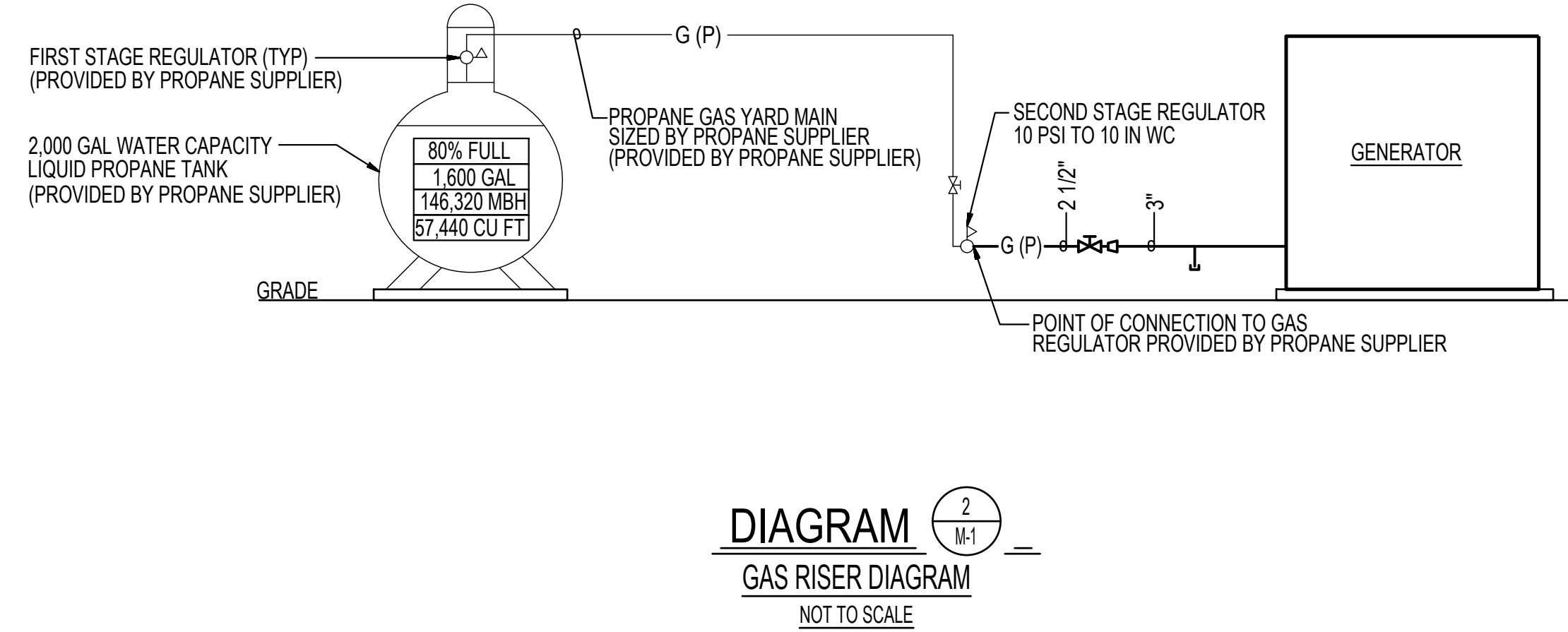
MECHANICAL SYMBOLS AND ABBREVIATIONS

— G —	LOW PRESSURE GAS PIPE	∅	INDICATES DIAMETER
— G (2 PSI) —	MEDIUM PRESSURE GAS PIPE	A/D	ACCESS DOOR
— G(P) —	PROPANE 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
—	METER	CFH	CUBIC FEET PER HOUR
—	GAUGE 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
		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



GAS PIPE SIZING SCHEDULE					
DESIG	MIN GAS PRESSURE (IN WC)	MAX GAS PRESSURE (IN WC)	INPUT (MBH)	INPUT (CFH)	NOTES
GENERATOR	7	11	2755	1095	1,2,3

NOTES:
 1. GAS PIPING SIZED PER THE IFGC 2018, CHAPTER 4 GAS PIPING INSTALLATIONS SECTION 402.4.1 LONGEST LENGTH METHOD AND TABLE 402.4(28).
 2. POINT OF DELIVERY TO THE FURTHEST APPLIANCE ON THE PIPING DISTRIBUTION SYSTEM IS 80 FEET.
 3. PIPING SIZED ON A TOTAL PRESSURE LOSS OF 0.5 IN WATER COLUMN.



- NOTES:
- SITE CONTRACTOR IS RESPONSIBLE FOR EXCAVATION OF SITE AS REQUIRED TO INSTALL PROPANE TANK AND ALL ACCESSORIES INCLUDING YARD SERVICE MAIN.
 - SITE CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND PROPANE TANK SUPPLIER THE REQUIREMENTS FOR EXCAVATION.
 - YARD SERVICE MAIN SHALL BE BURIED MINIMUM 12" BELOW GRADE AT NON-TRAFFIC AREAS AND 18" BELOW GRADE AT TRAFFIC AREAS.

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT
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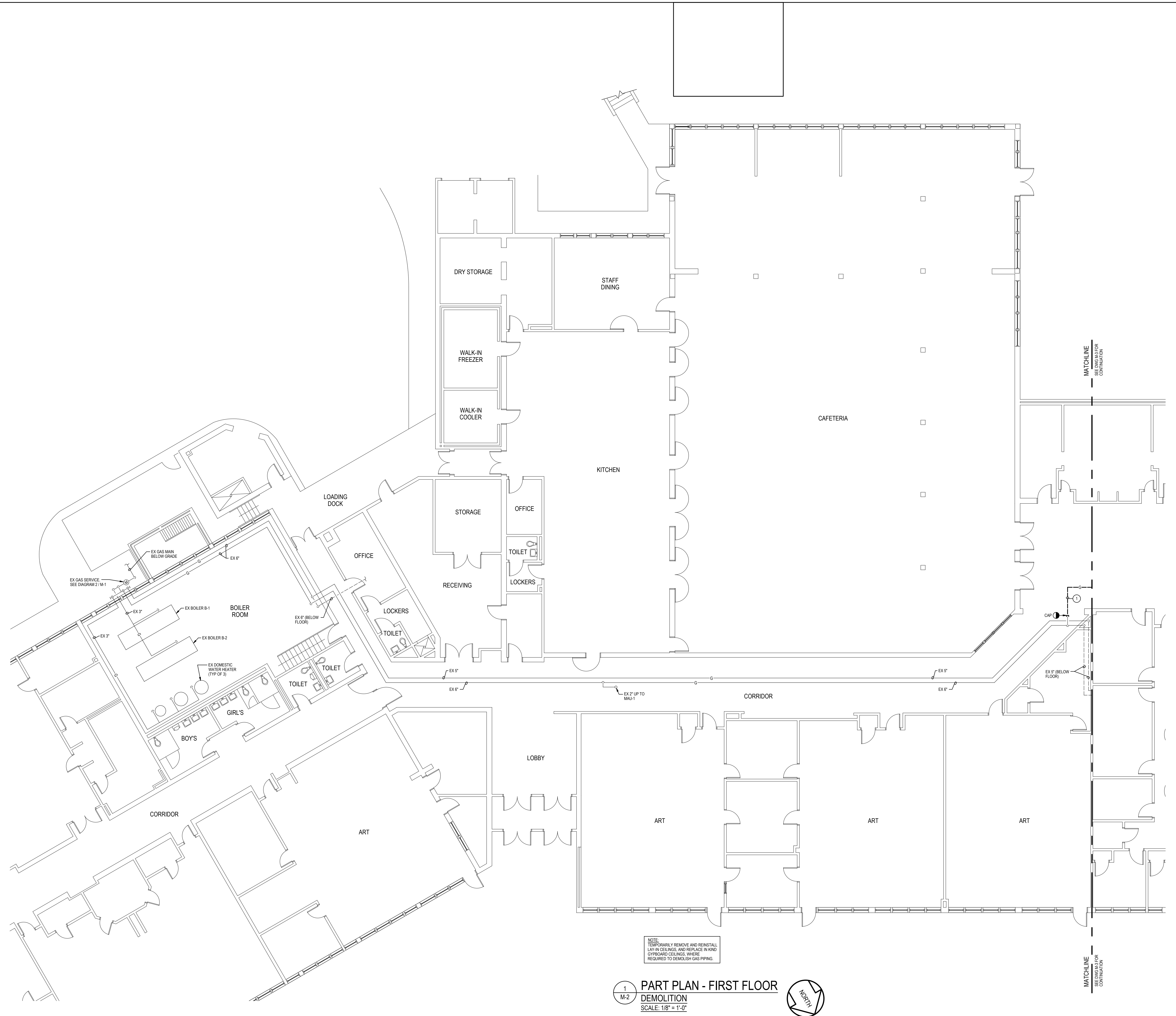
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Tag	Description	Date
	BID SET	06/20/23

PSC No	
Scale	AS NOTED
Project No	7753-22
Date	JUNE 20, 2023

Drawing Title
DIAGRAMS, SYMBOLS AND ABBREVIATIONS

Sheet No:
M-1



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. 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.

C. UNLESS OTHERWISE NOTED, MECHANICAL/PLUMBING ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED AND MECHANICAL/PLUMBING ITEMS SHOWN LIGHT SOLID (—) SHALL REMAIN.

D. NEW GENERATOR AND GAS PIPING TO BE INSTALLED BEFORE EXISTING IS REMOVED. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL PHASING INFORMATION.

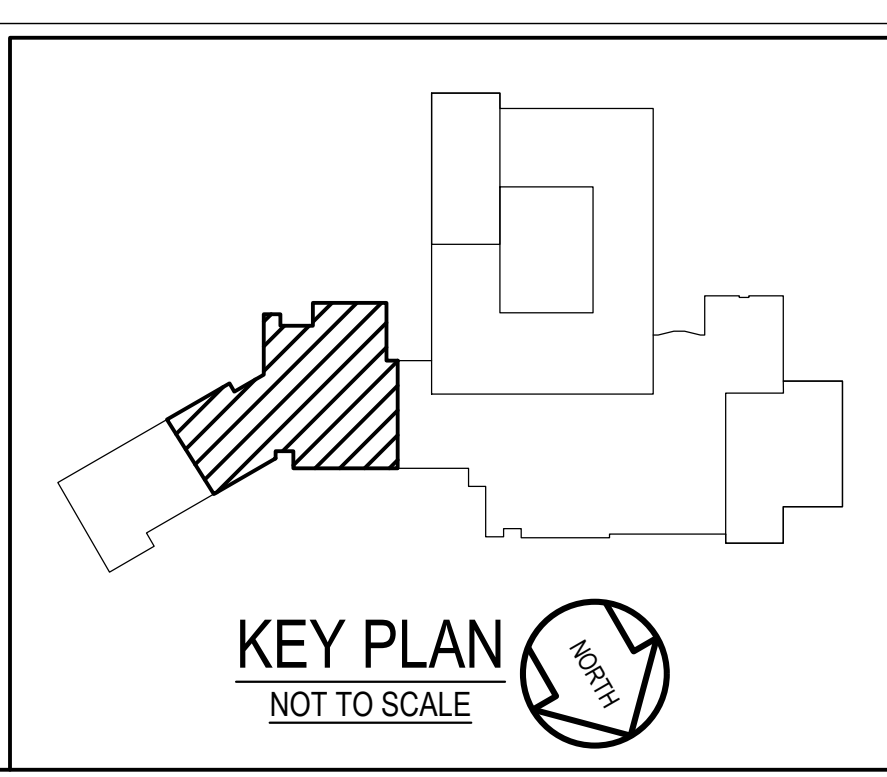
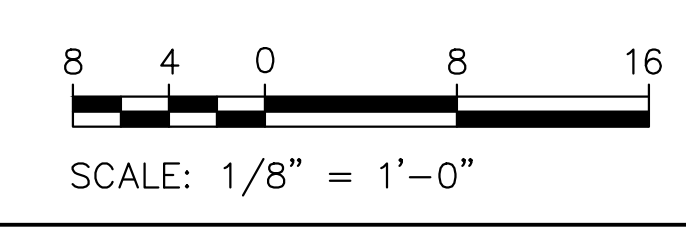
SPECIFIC NOTES:

1. EX 4" NATURAL GAS PIPING. CONTRACTOR TO CONFIRM THAT 4" NATURAL GAS PIPING DOES NOT SERVE OTHER FIXTURES OR APPLIANCES. IF DISCOVERED, CONTRACTOR IS TO INFORM ENGINEER BY SUBMITTING AN RFI AND AWAIT FURTHER INSTRUCTION BEFORE CONTINUING WORK ON NATURAL GAS PIPING.

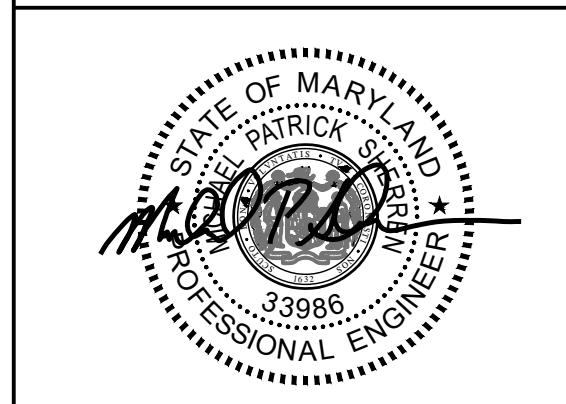
NOTE:
TEMPORARILY REMOVE AND REINSTALL LAY-IN CEILINGS AND REPLACE IN KIND GYPSOBOARD CEILINGS WHERE REQUIRED TO DEMOLISH GAS PIPING.

1
M-2

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



GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT
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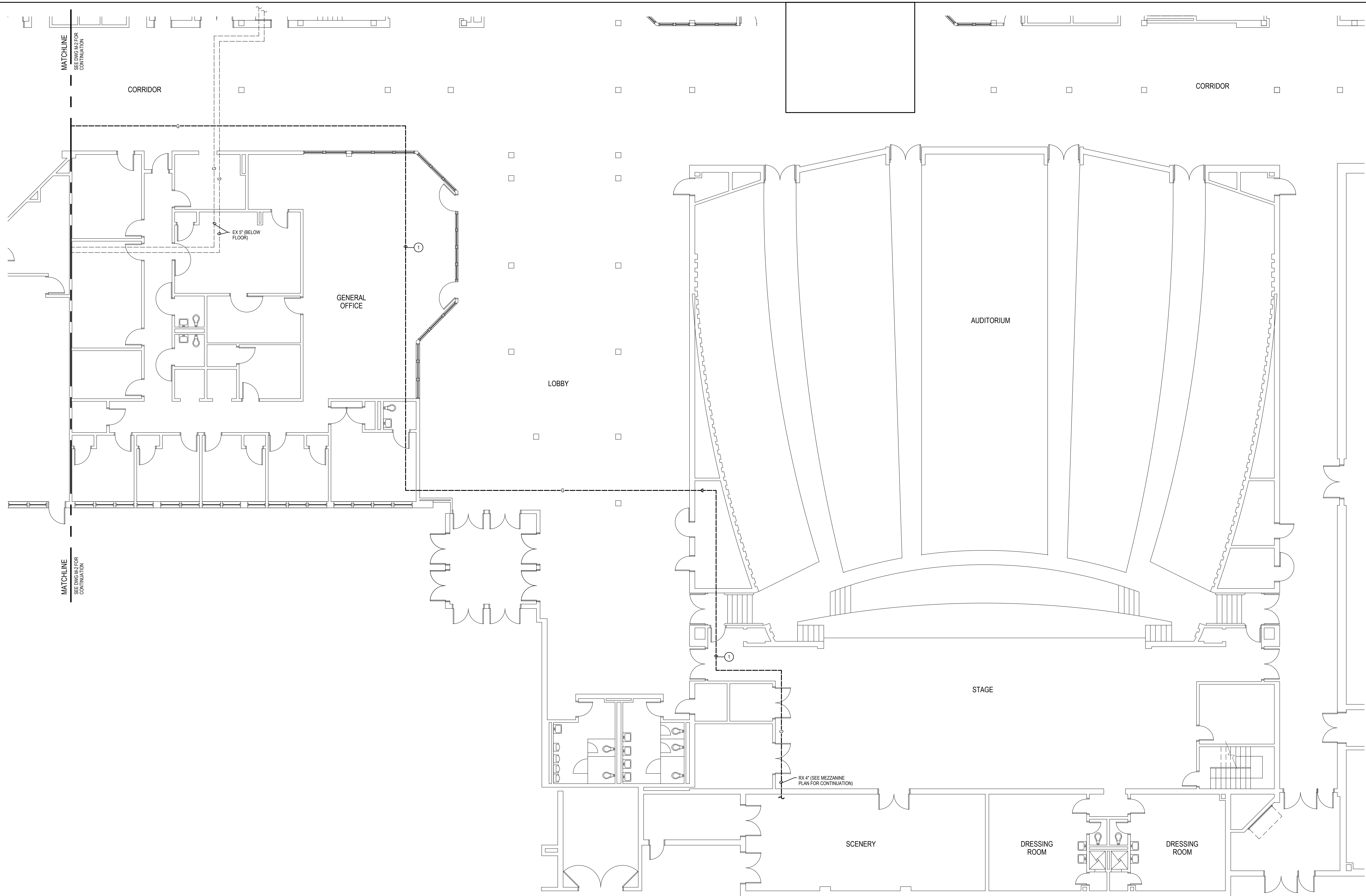
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PSC No.	
Scale	AS NOTED
Project No.	7753-22
Date	JUNE 20, 2023
Drawing Title	PART PLAN - FIRST FLOOR DEMOLITION

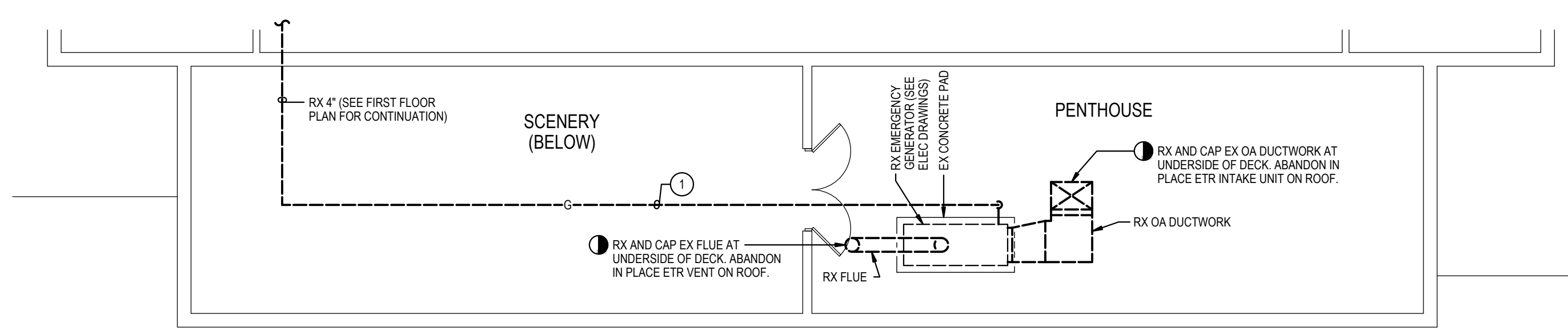
Sheet No:
M-2



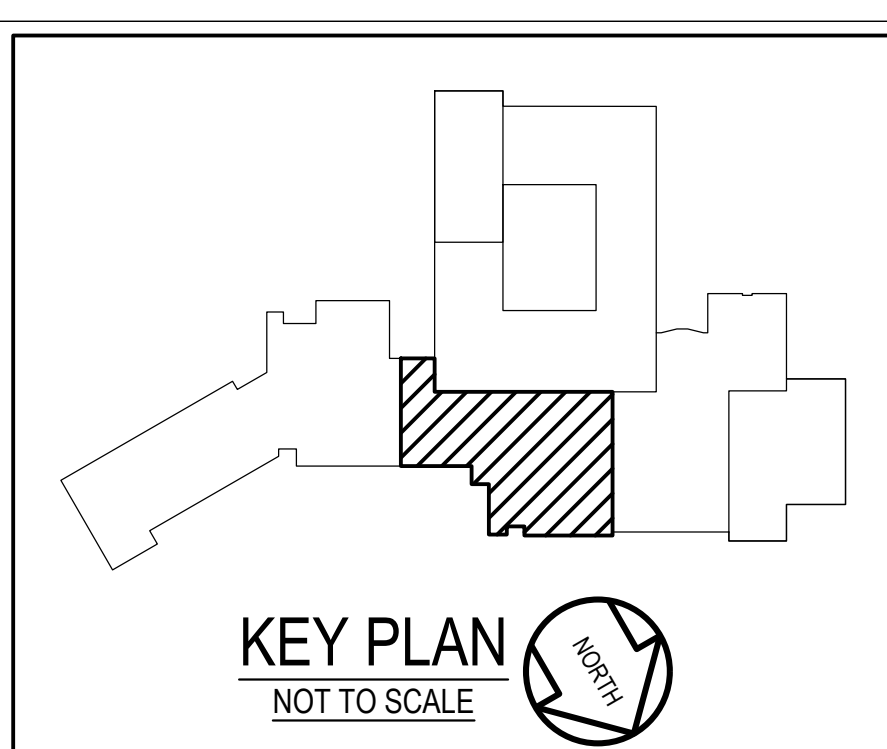
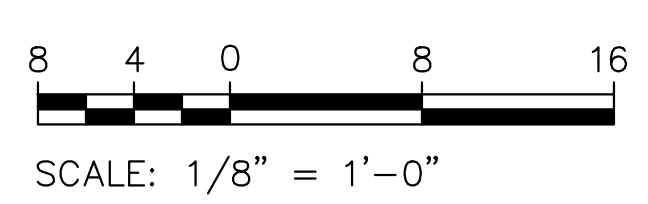
- GENERAL NOTES:**
- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE 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. 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.
 - C. UNLESS OTHERWISE NOTED, MECHANICAL/PLUMBING ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED AND MECHANICAL/PLUMBING ITEMS SHOWN LIGHT SOLID (—) SHALL REMAIN.
 - D. NEW GENERATOR AND GAS PIPING TO BE INSTALLED BEFORE EXISTING IS REMOVED. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL PHASING INFORMATION.
- SPECIFIC NOTES:**
- ① RX 4" NATURAL GAS PIPING. CONTRACTOR TO CONFIRM THAT 4" NATURAL GAS PIPING DOES NOT SERVE OTHER FIXTURES OR APPLIANCES. IF DISCOVERED, CONTRACTOR IS TO INFORM ENGINEER BY SUBMITTING AN RFI AND AWAIT FURTHER INSTRUCTION BEFORE CONTINUING WORK ON NATURAL GAS PIPING.

NOTE:
TEMPORARILY REMOVE AND REINSTALL LAY-IN CEILINGS AND REPLACE IN KIND CYBERBOARD CEILINGS, WHERE REQUIRED TO DEMOLISH GAS PIPING.

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



2
M-3
PART PLAN - MEZZANINE
DEMOLITION
SCALE: 1/8" = 1'-0"



GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT
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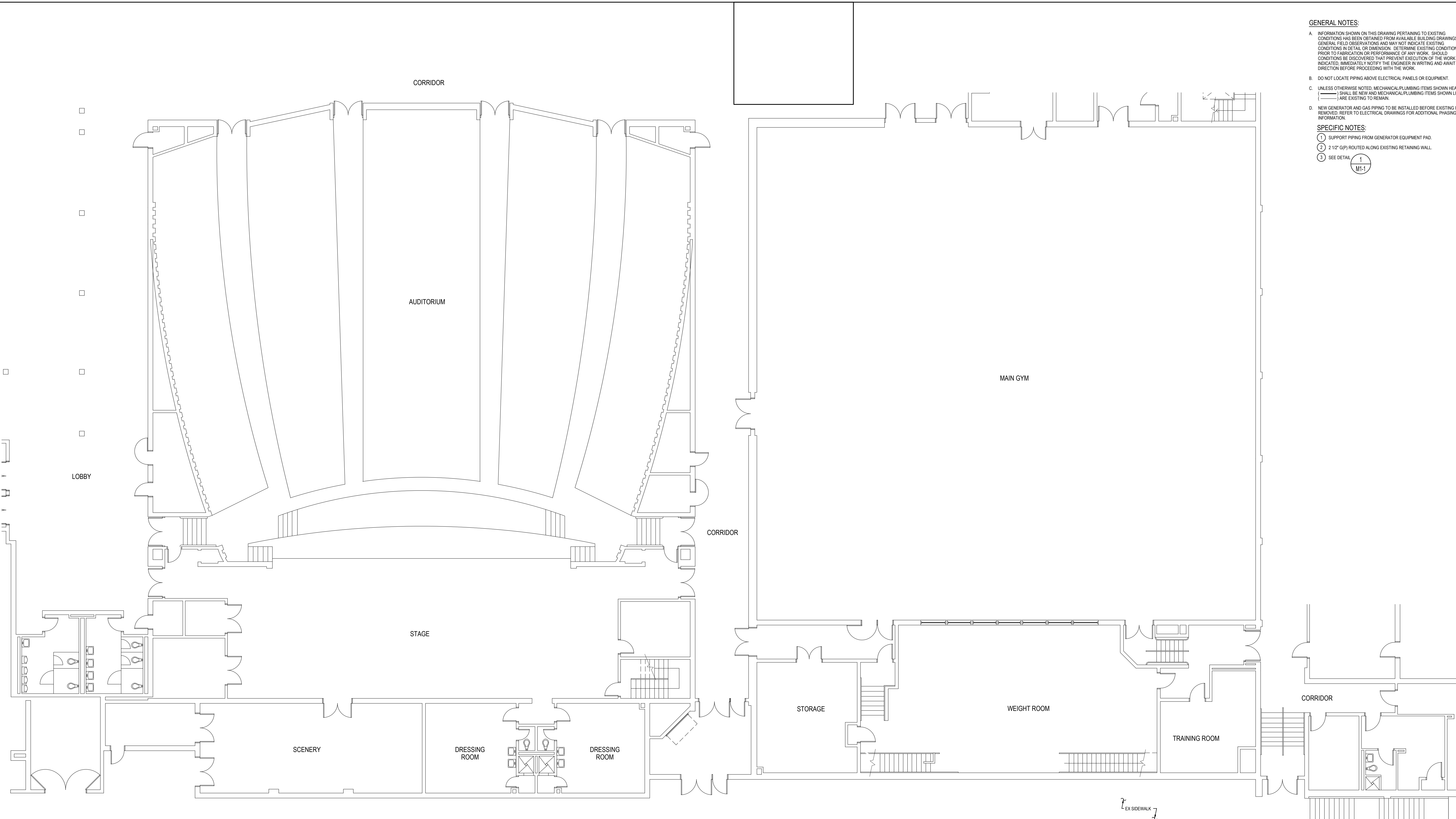
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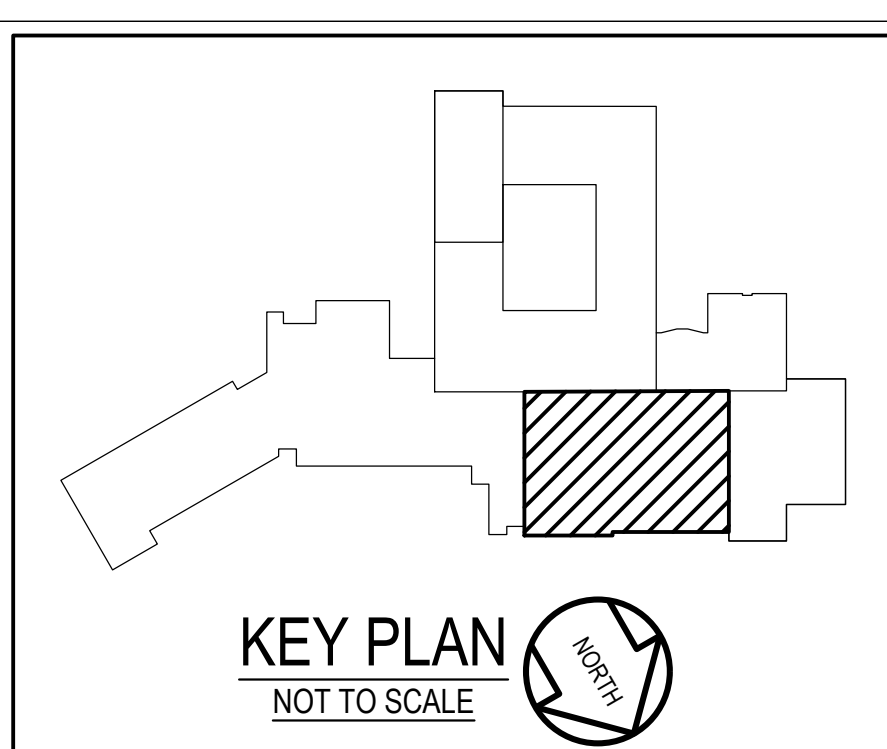
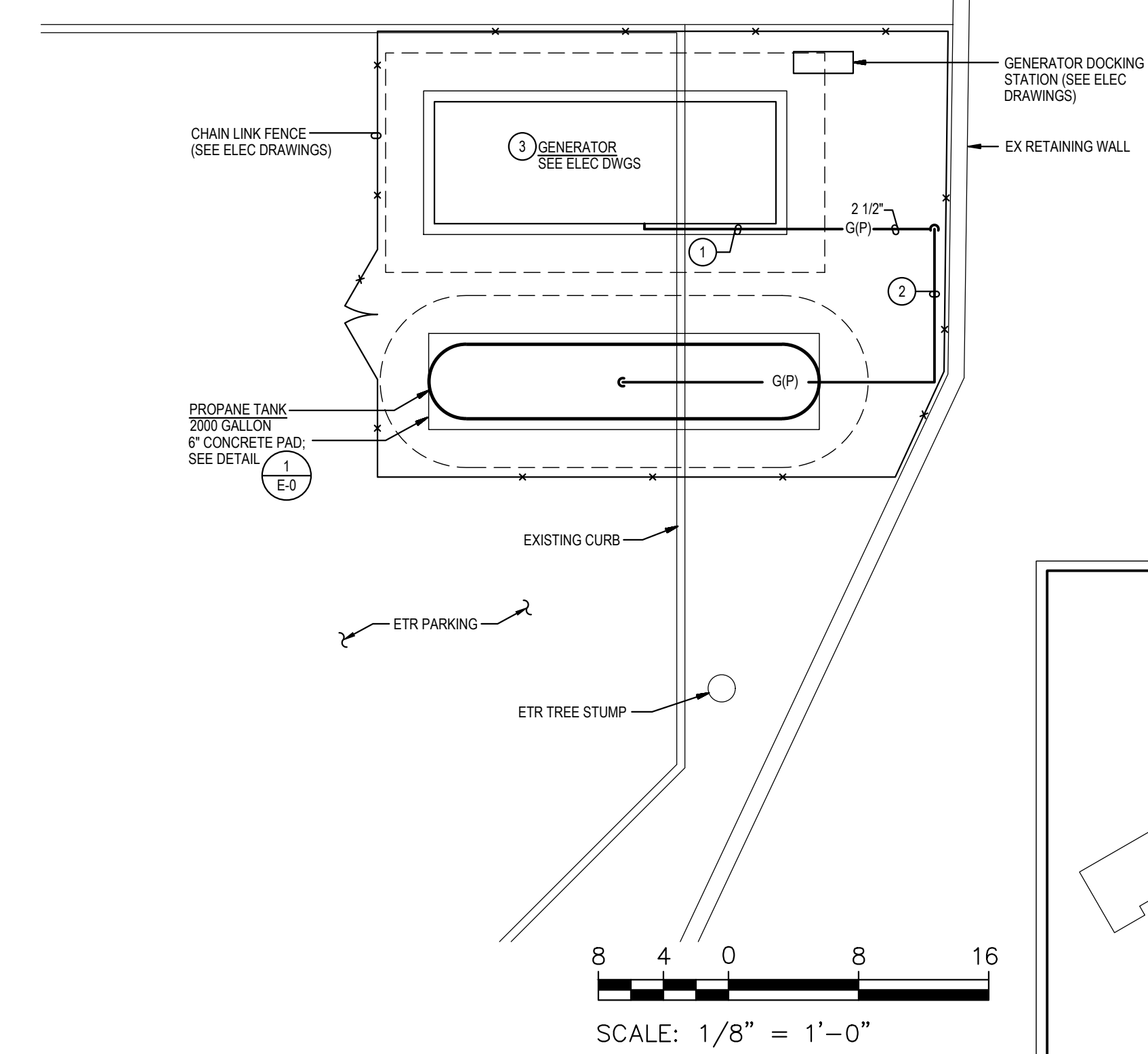
Drawing Title
PART PLANS - FIRST FLOOR AND MEZZANINE DEMOLITION

Sheet No:
M-3

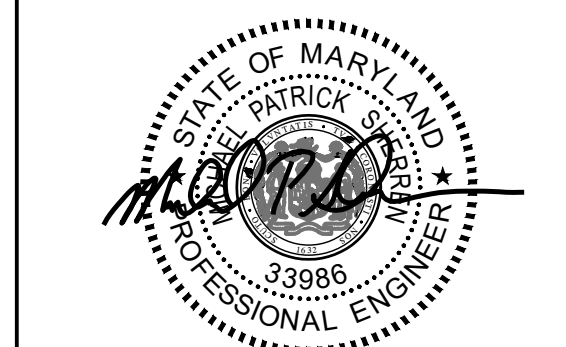


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 - B. DO NOT LOCATE PIPING ABOVE ELECTRICAL PANELS OR EQUIPMENT.
 - C. UNLESS OTHERWISE NOTED, MECHANICAL/PLUMBING ITEMS SHOWN HEAVY SHALL BE NEW AND MECHANICAL/PLUMBING ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN.
 - D. NEW GENERATOR AND GAS PIPING TO BE INSTALLED BEFORE EXISTING IS REMOVED. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL PHASING INFORMATION.
- SPECIFIC NOTES:**
- 1 SUPPORT PIPING FROM GENERATOR EQUIPMENT PAD.
 - 2 2 1/2" GIP/ ROUTED ALONG EXISTING RETAINING WALL.
 - 3 SEE DETAIL 1

1 M-4 PART PLAN - FIRST FLOOR
NEW WORK
SCALE: 1/8" = 1'-0"



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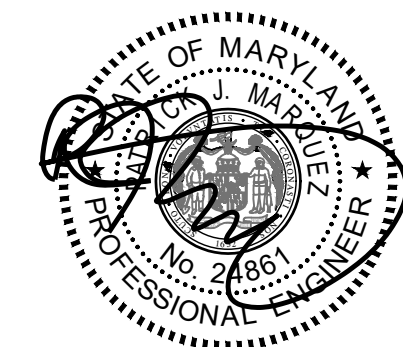


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Drawing Title	PART PLAN - FIRST FLOOR NEW WORK
Sheet No.	M-4



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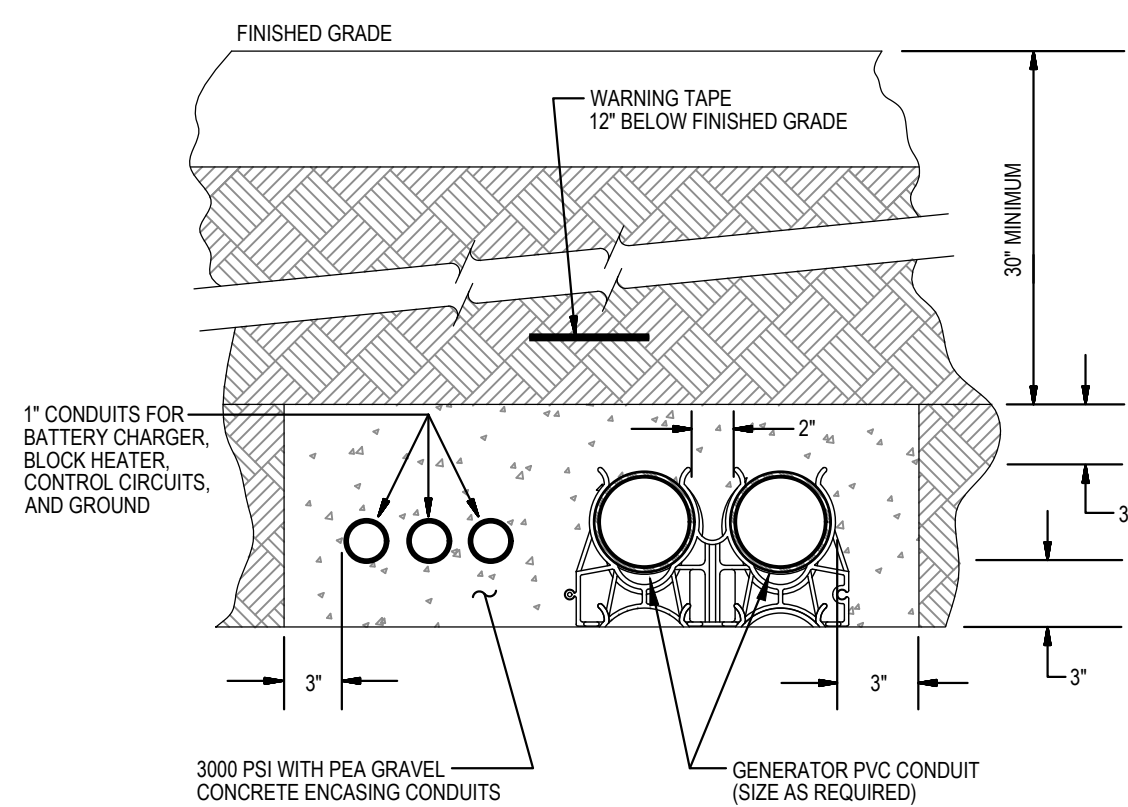
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Scale	AS NOTED
Project No	7753-22
Date	JUNE 20, 2023

Drawing Title
SYMBOLS LIST, ABBREVIATIONS, DETAILS AND DIAGRAMS

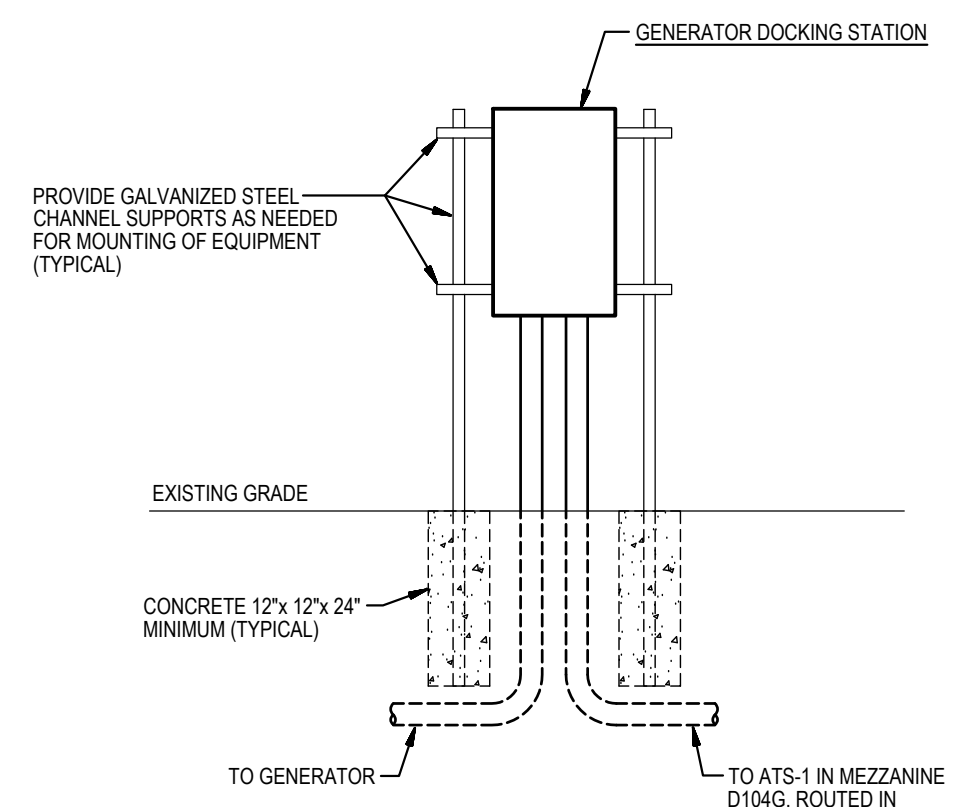
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E-0

ELECTRICAL SYMBOLS AND ABBREVIATIONS

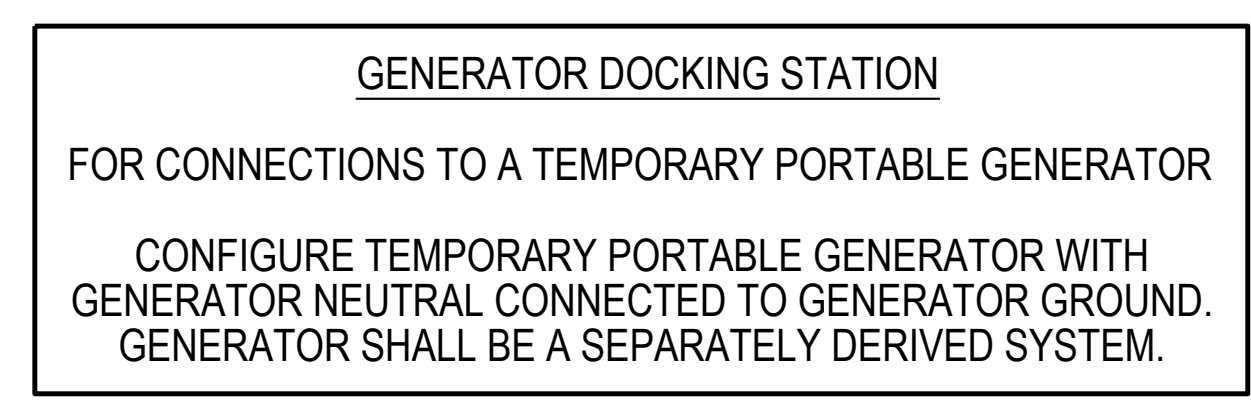
GENERAL		POWER	
①	DENOTES REFERENCE TO SPECIFIC NOTE ON DRAWING.		HOMERUN TO PANELBOARD. NUMBER OF HASH MARKS INDICATES NUMBER OF WIRES PLUS GROUND WIRE. REFER TO PANEL SCHEDULES FOR CONDUCTOR SIZES. PROVIDE GROUND WIRES IN CONDUITS.
	DETAIL, DIAGRAM OR PLAN NUMBER		HOMERUN TO PANELBOARD, RUN BELOW GRADE. NUMBER OF HASH MARKS INDICATES NUMBER OF WIRES PLUS GROUND WIRE. REFER TO PANEL SCHEDULES FOR CONDUCTOR SIZES. PROVIDE GROUND WIRES IN CONDUITS.
#E-#	DRAWING NUMBER WHERE DETAIL, DIAGRAM OR PLAN IS LOCATED.	EM	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 GENERATOR CIRCUIT. PROVIDE GROUND WIRES IN CONDUITS.
	DETAIL, DIAGRAM OR PLAN REFERENCE: DETAIL, DIAGRAM OR PLAN NUMBER/DRAWING NUMBER	---	WIRING IN CONDUIT RUN BELOW GRADE OR BELOW ROOF.
NOTES:			CONDUIT TURNING UP.
A.	PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.		WIRING IN CONDUIT CONTINUED.
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.		JUNCTION BOX WITH BLANK COVER PLATE.
DEMOLITION			ELECTRIC PANELBOARD (277/480V), SURFACE MOUNTED.
	DISCONNECT AND REMOVE EXISTING WIRING IN CONDUIT, UNLESS OTHERWISE NOTED.		TRANSFORMER.
	DISCONNECT AND REMOVE EXISTING HOMERUN WIRING IN CONDUIT BACK TO SOURCE.		ELECTRIC PANELBOARD (120/208V), SURFACE MOUNTED.
	DISCONNECT AND REMOVE EXISTING PANELBOARD OR CABINET AS INDICATED.		EQUIPMENT CABINET AS NOTED.
	DISCONNECT AND REMOVE EXISTING TRANSFORMER, INCLUDING HOUSEKEEPING PAD.		ENCLOSED CIRCUIT BREAKER.
	DISCONNECT AND REMOVE EXISTING MOTOR STARTER.		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.
	DISCONNECT EXISTING MOTOR.		HARD-WIRED ELECTRICAL CONNECTION. CONNECT TO EQUIPMENT AS NOTED.
	DISCONNECT AND REMOVE EXISTING ENCLOSED CIRCUIT BREAKER.		SURGE PROTECTIVE DEVICE IN NEMA TYPE 1 ENCLOSURE, UNLESS OTHERWISE NOTED.
	DISCONNECT AND REMOVE EXISTING AUTOMATIC TRANSFER SWITCH.		VARIABLE FREQUENCY DRIVE.
EXISTING			DUPLEX RECEPTACLE (NEMA 5-20R) ON GENERATOR STANDBY POWER CIRCUIT, SURFACE WALL-MOUNTED 16" ABOVE FLOOR TO BOTTOM 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.
	EXISTING TO REMAIN WALL OUTLET AND LIGHTING FIXTURE.		DUPLEX RECEPTACLE (NEMA 5-20R) ON GENERATOR STANDBY POWER CIRCUIT, SURFACE WALL-MOUNTED 48" ABOVE FLOOR TO TOP OF BOX. RECEPTACLES DESIGNATED WITH A "H" SHALL BE HOSPITAL GRADE TYPE.
	EXISTING TO REMAIN CEILING OUTLET AND LIGHTING FIXTURE.		DOUBLE-DUPLEX (QUADRUPLEX) RECEPTACLE (NEMA 5-20R) ON GENERATOR STANDBY POWER CIRCUIT, SURFACE WALL-MOUNTED 48" ABOVE FLOOR TO TOP OF BOX.
	EXISTING TO REMAIN WALL OUTLET AND LIGHTING FIXTURE PREVIOUSLY ON NORMAL POWER CIRCUIT AND CHANGED TO GENERATOR POWER CIRCUIT.	FIRE DETECTION AND ALARM	
	EXISTING TO REMAIN CEILING OUTLET AND LIGHTING FIXTURE ON GENERATOR POWER CIRCUIT, OR PREVIOUSLY ON NORMAL POWER CIRCUIT AND CHANGED TO GENERATOR POWER CIRCUIT.		MONITORING MODULES. PROVIDE FIRE ALARM WIRING IN CONDUIT AND CONNECT MONITORING MODULES TO EXISTING FIRE DETECTION AND ALARM SYSTEM FOR "GENERATOR RUN" AND "GENERATOR FAULT". MAKE CONNECTIONS NECESSARY FOR COMPLETE INSTALLATION. RE-PROGRAM FIRE ALARM CONTROL PANEL AS REQUIRED.
	EXISTING EXIT SIGN TO REMAIN.	ABBREVIATIONS	
	EXISTING TO REMAIN WALL MOUNTED SWITCH.	A, AMP	AMPERE(S)
	EXISTING TO REMAIN 277/480V PANELBOARD, SURFACE OR FLUSH MOUNTED.	AHU	AIR-HANDLING UNIT
	EXISTING TO REMAIN 120/208V PANELBOARD, SURFACE OR FLUSH MOUNTED.	AIC	AMPERES INTERRUPTING CAPACITY
	EXISTING TO REMAIN TRANSFORMER.	ATS	AUTOMATIC TRANSFER SWITCH
EM	EXISTING TO REMAIN WIRING IN CONDUIT. "EM" DESIGNATES EMERGENCY GENERATOR CIRCUIT.	C	CIRCUIT BREAKER
	EXISTING TO REMAIN WIRING IN CONDUIT CONTINUED.	CB	CIRCUIT BREAKER
	EXISTING TO REMAIN WIRING IN CONDUIT TURNING DOWN.	CKT	CIRCUIT
	EXISTING TO REMAIN HOMERUN WIRING IN CONDUIT BACK TO SOURCE.	CT	CURRENT TRANSFORMERS
	EXISTING TO REMAIN WALL MOUNTED JUNCTION BOX.	DIST	DISTRIBUTION
	EXISTING TO REMAIN MOTOR CONNECTION.	EM	EMERGENCY
	EXISTING EQUIPMENT CONNECTION TO BE RECONNECTED WHERE INDICATED.	ETR	EXISTING TO REMAIN
	EXISTING TO REMAIN ENCLOSED SWITCH (DISCONNECT/SAFETY SWITCH).	EX	EXISTING
	EXISTING TO REMAIN MOTOR STARTER.	FAAP	FIRE ALARM ANNUNCIATOR PANEL
	EXISTING TO REMAIN DUPLEX RECEPTACLE, FLUSH OR SURFACE MOUNTED.	FACP	FIRE ALARM CONTROL PANEL
	EXISTING TO REMAIN QUADRUPLEX (DOUBLE-DUPLEX) RECEPTACLE, SURFACE MOUNTED.	G	GROUND
		GFCI	GROUND FAULT CIRCUIT INTERRUPTER
		H	HOT
		HP	HORSEPOWER
		KVA	KILOVOLT-AMPERES
		KW	KILOWATTS
		LTG	LIGHTING
		MCPS	MONTGOMERY COUNTY PUBLIC SCHOOLS
		MIN	MINIMUM
		N	NEUTRAL
		NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
		P	POLE(S) OR PUMP
		PA	PUBLIC ADDRESS
		PSI	POUNDS PER SQUARE INCH
		PVC	POLYVINYL CHLORIDE
		REC	RECEPTACLE
		REFRIG	REFRIGERATOR
		RX	REMOVE EXISTING
		SPD	SURGE PROTECTIVE DEVICE
		STOR.	STORAGE
		V	VOLTS(S)
		VFD	VARIABLE FREQUENCY DRIVE
		W	WIRE(S)
		XFMR	TRANSFORMER
		Ø	PHASE



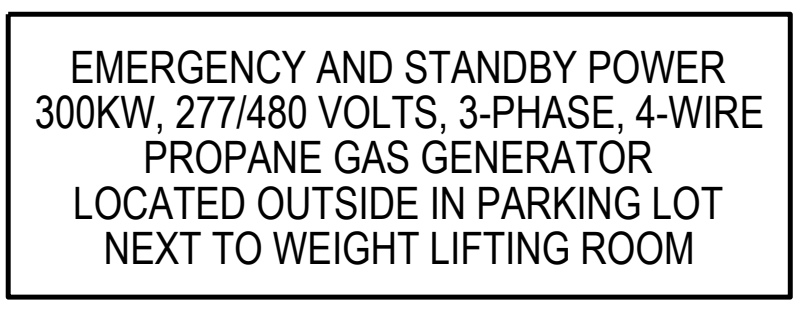
7
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DETAIL
GENERATOR DUCTBANK
NOT TO SCALE



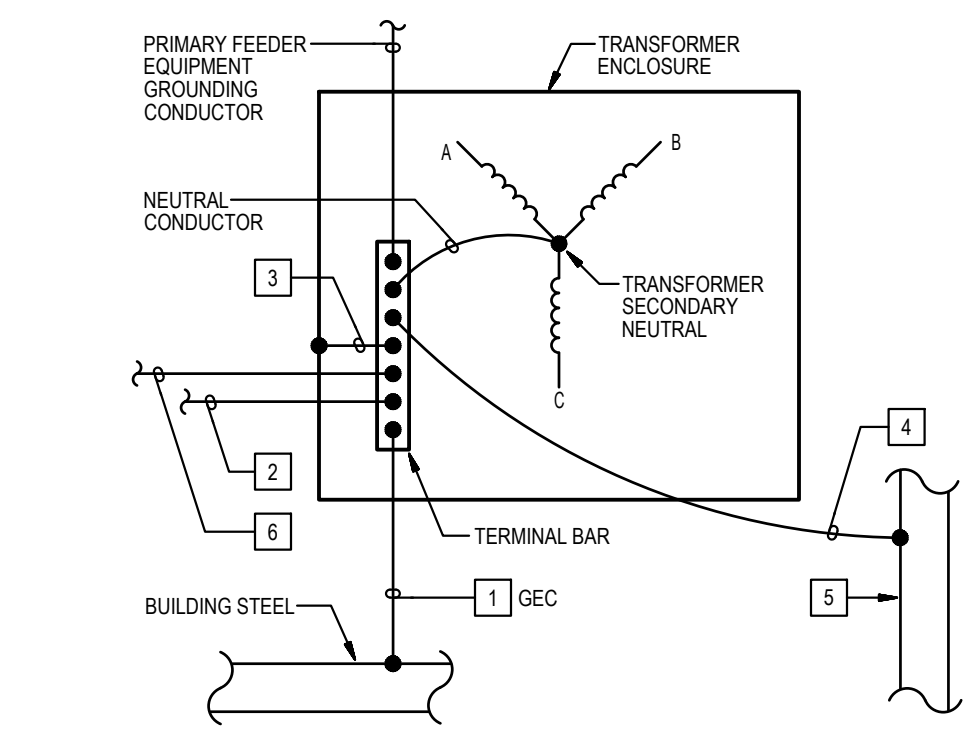
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NOT TO SCALE



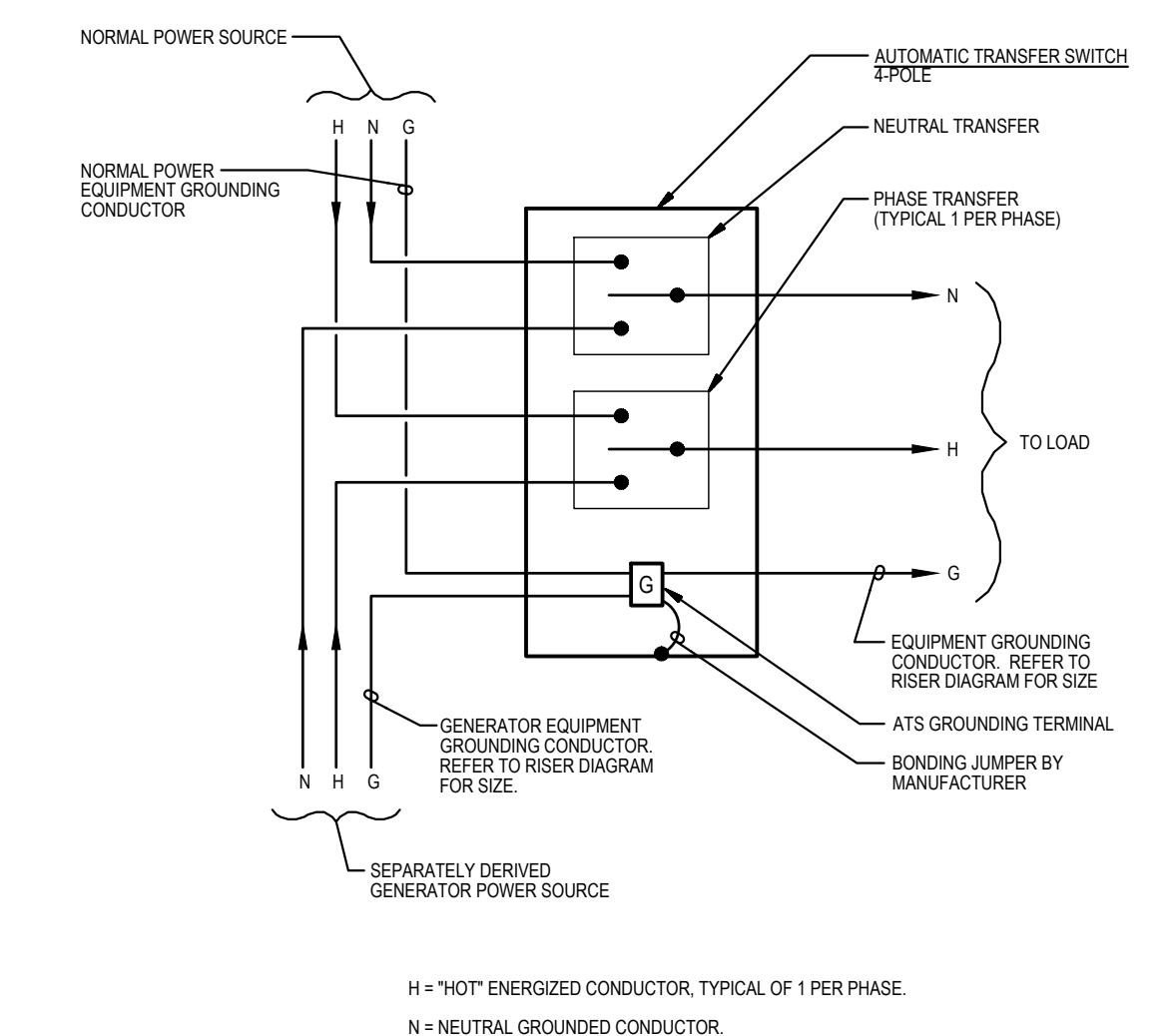
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DETAIL
PLACARD AT GENERATOR DOCKING STATION
NOT TO SCALE



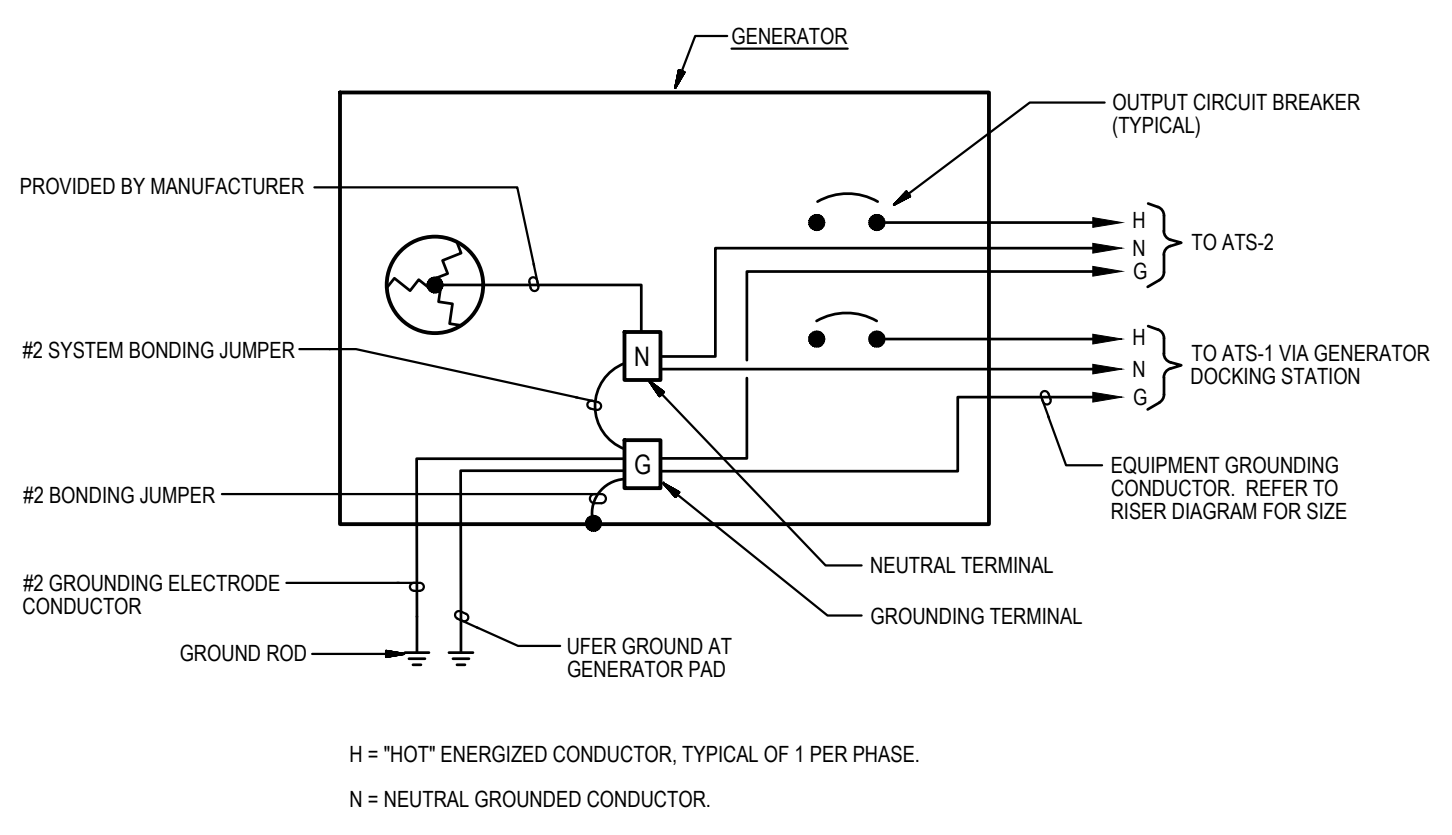
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E-0
DIAGRAM
AUTOMATIC TRANSFER SWITCH GROUND WIRING
NOT TO SCALE



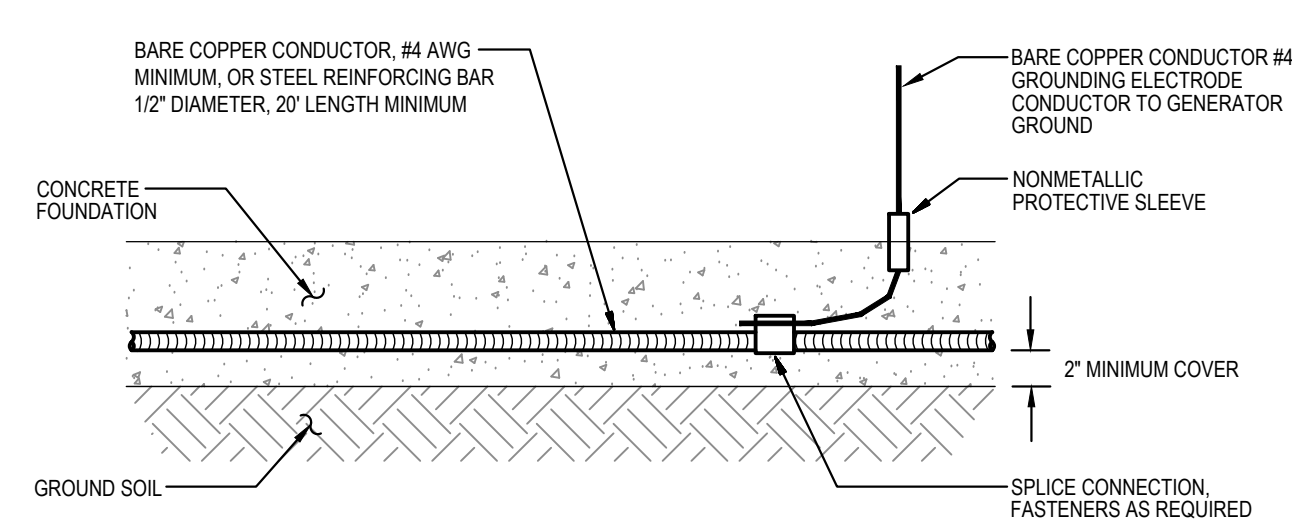
9
E-0
DETAIL
TRANSFORMER GROUNDING & BONDING
NOT TO SCALE



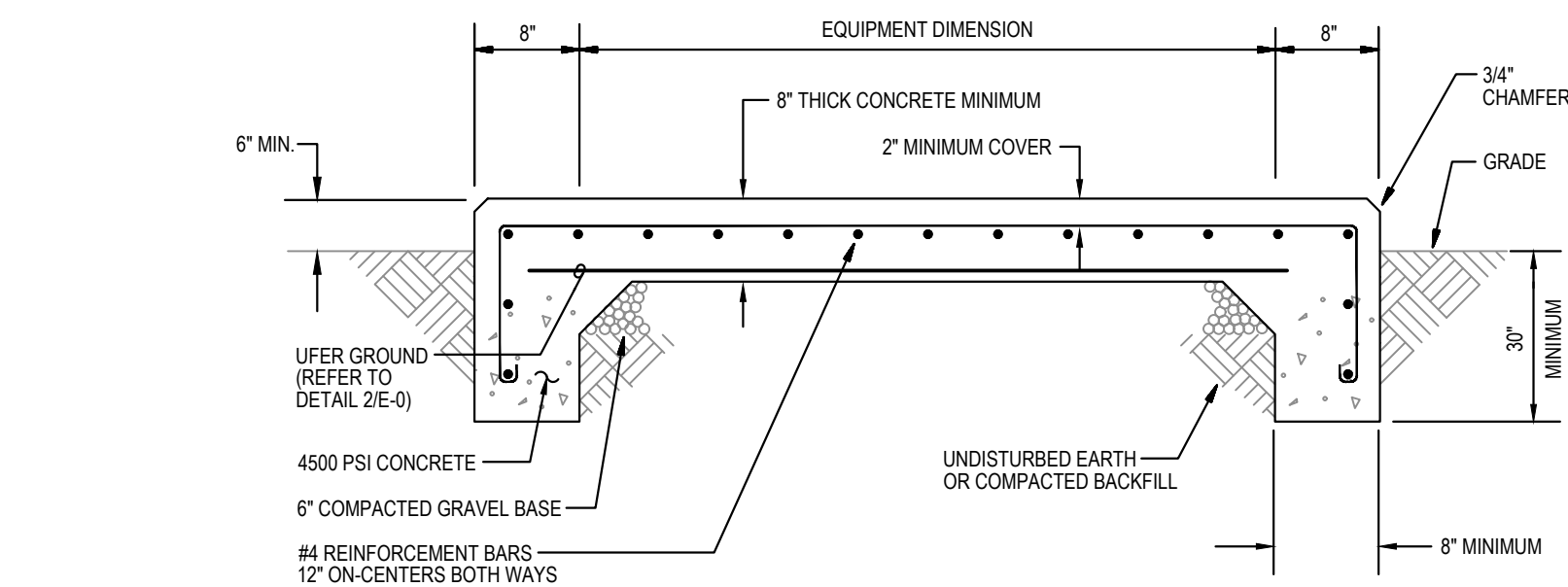
8
E-0
DETAIL
DIRECTLY-BURIED CONDUIT
NOT TO SCALE



2
E-0
DETAIL
TYPICAL UFER GROUND
NOT TO SCALE

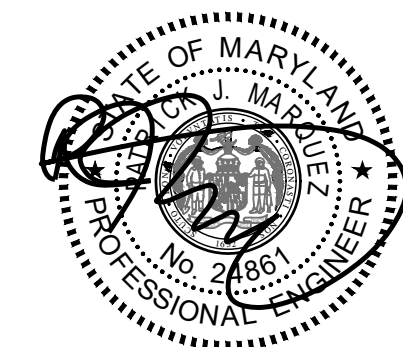


1
E-0
DETAIL
GENERATOR CONCRETE PAD
NOT TO SCALE



3
E-0
DIAGRAM
GENERATOR GROUNDING WIRING
NOT TO SCALE

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT
SPRINGBROOK HIGH SCHOOL
 201 VALLEY BROOK DRIVE
 SILVER SPRING, MD 20904
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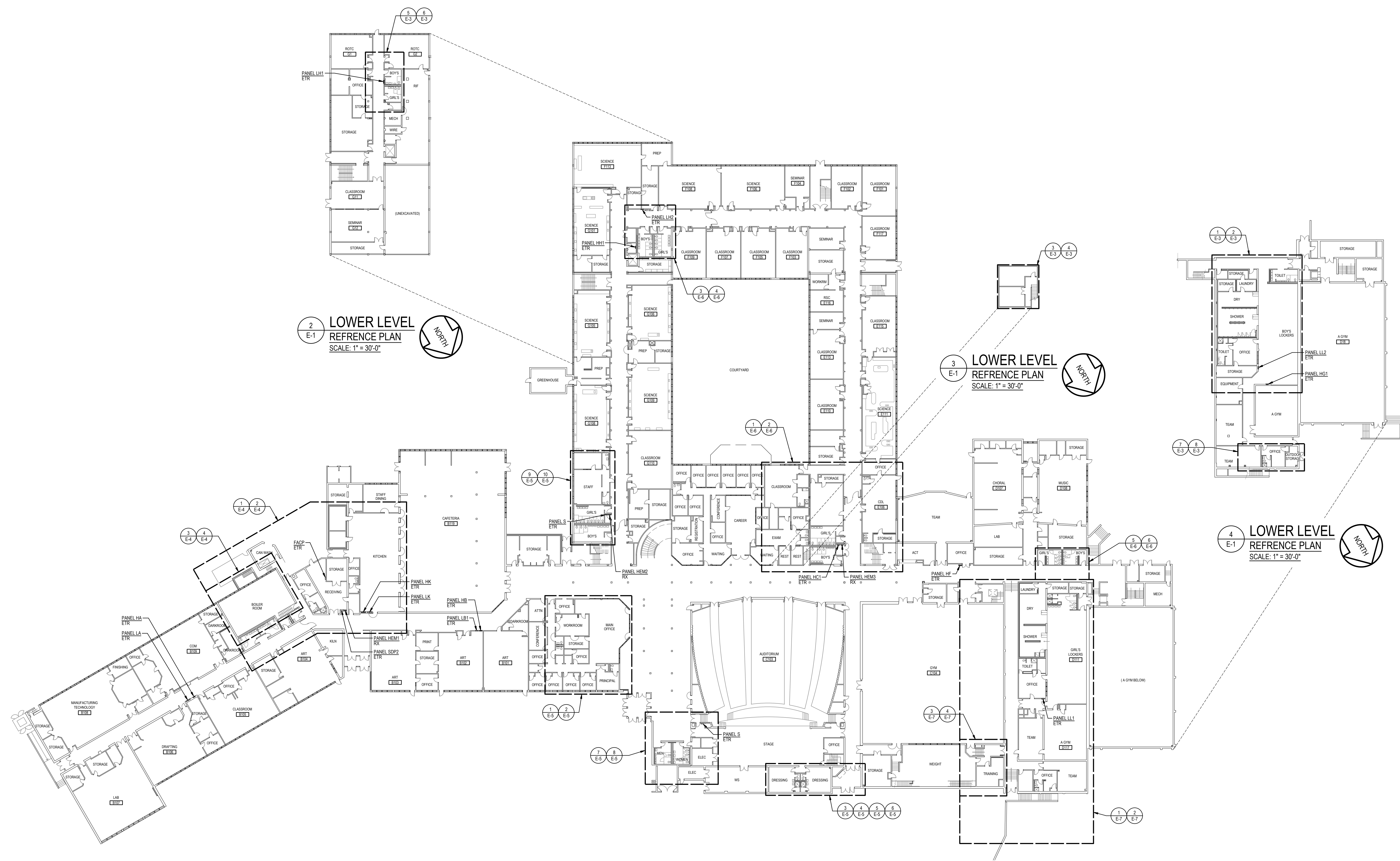
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 tel 410-265-6100
 jamesposey.com

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Project No.	7753-22
Date	JUNE 20, 2023

Drawing Title
**REFERENCE PLAN
 LOWER LEVEL AND
 FIRST FLOOR**

Sheet No:
E-1

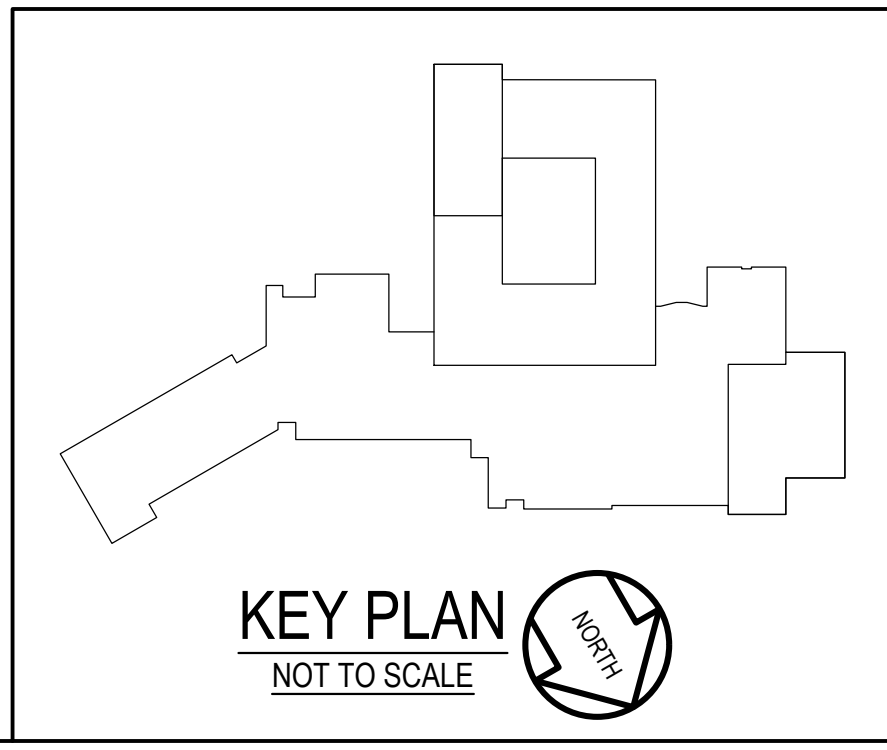
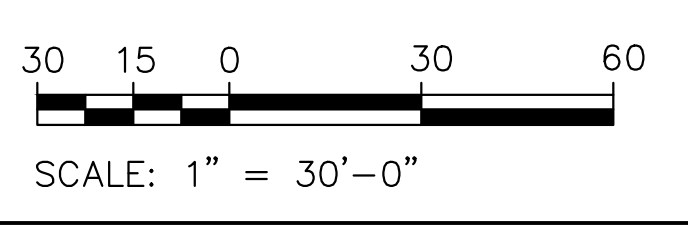


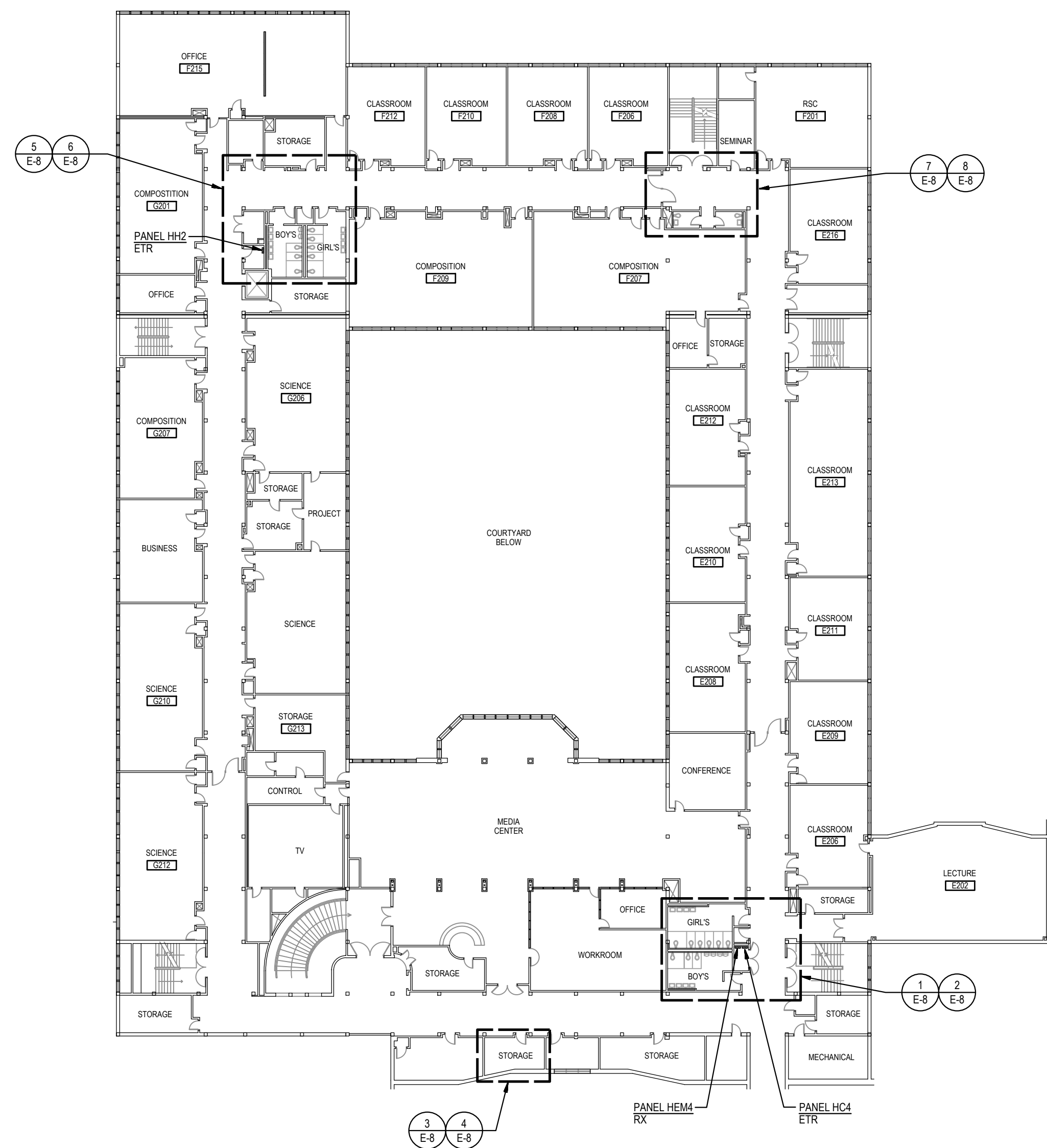
2 LOWER LEVEL REFERENCE PLAN
 SCALE: 1" = 30'-0"
 NORTH

3 LOWER LEVEL REFERENCE PLAN
 SCALE: 1" = 30'-0"
 NORTH

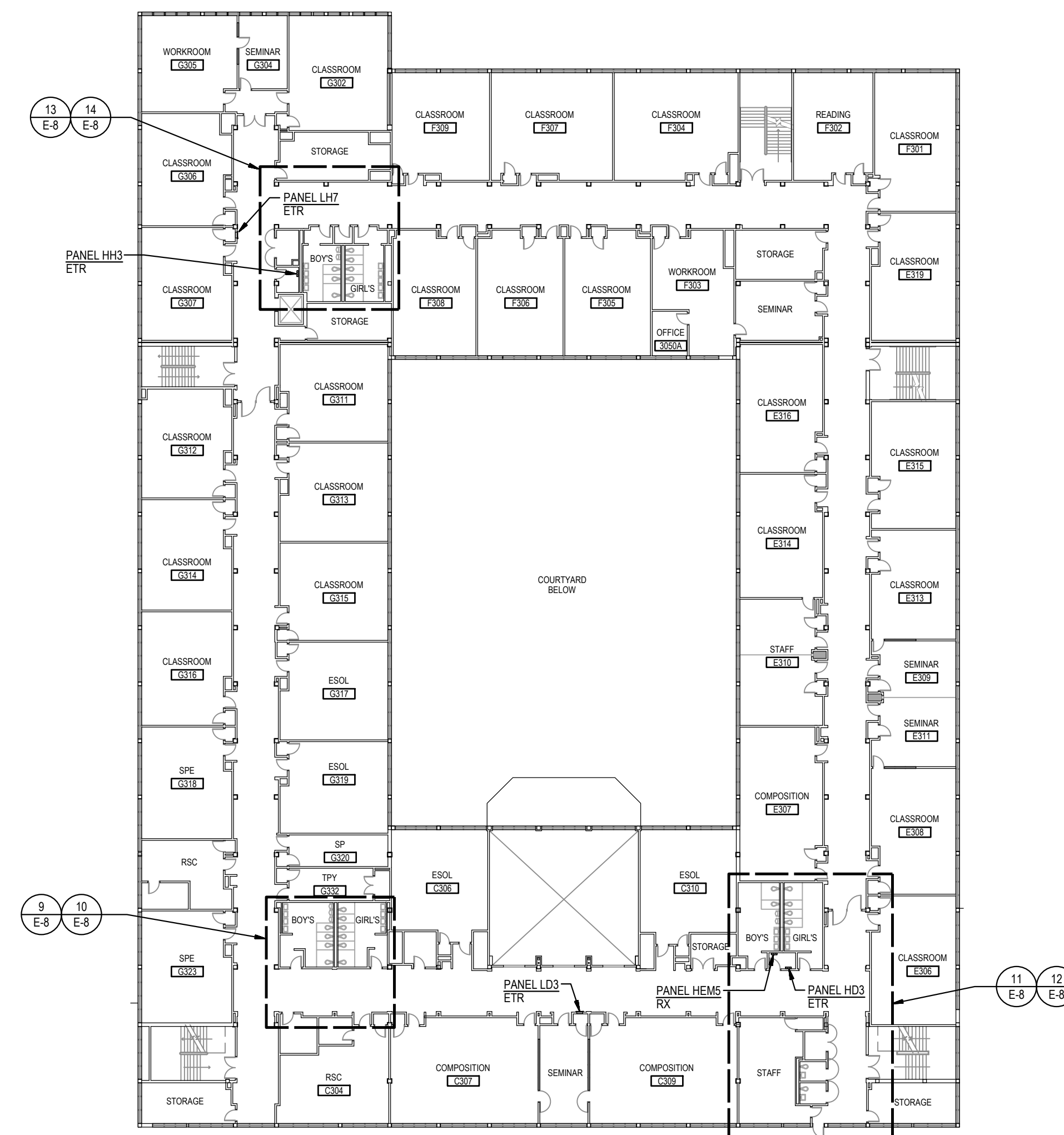
4 LOWER LEVEL REFERENCE PLAN
 SCALE: 1" = 30'-0"
 NORTH

1 FIRST FLOOR REFERENCE PLAN
 SCALE: 1" = 30'-0"
 NORTH

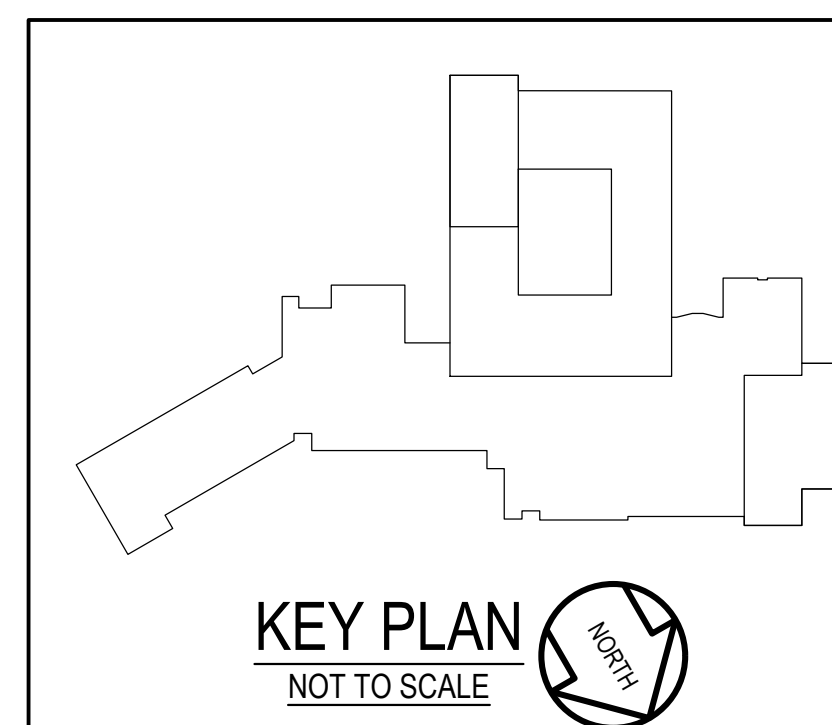
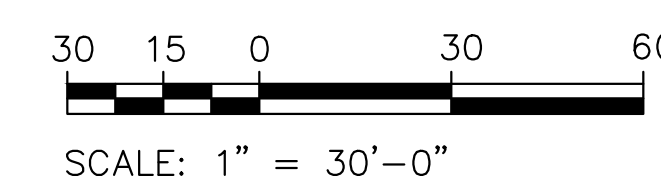




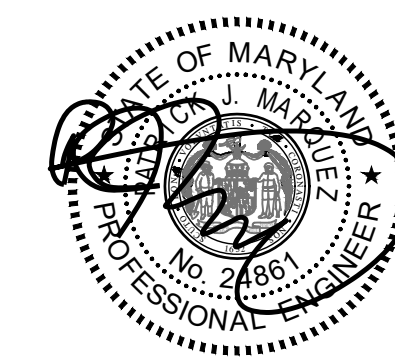
1 SECOND FLOOR REFERENCE PLAN SCALE: 1" = 30'-0"



2 THIRD FLOOR REFERENCE PLAN SCALE: 1" = 30'-0"



GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT
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REFERENCE PLAN SECOND AND THIRD FLOORS

Sheet No: **E-2**

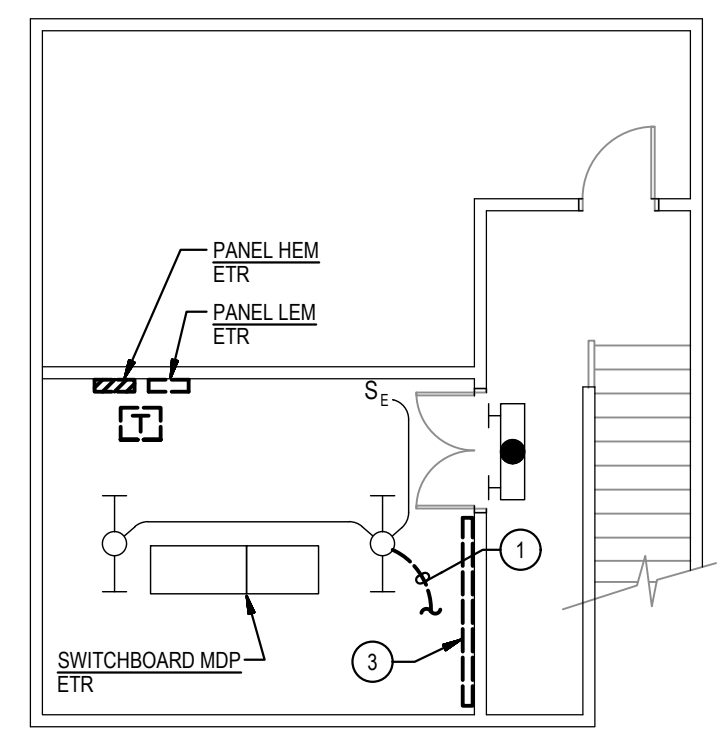
GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT
SPRINGBROOK HIGH SCHOOL
 201 VALLEY BROOK DRIVE
 SILVER SPRING, MD 20904
 MONTGOMERY COUNTY PUBLIC SCHOOLS

GENERAL NOTES:

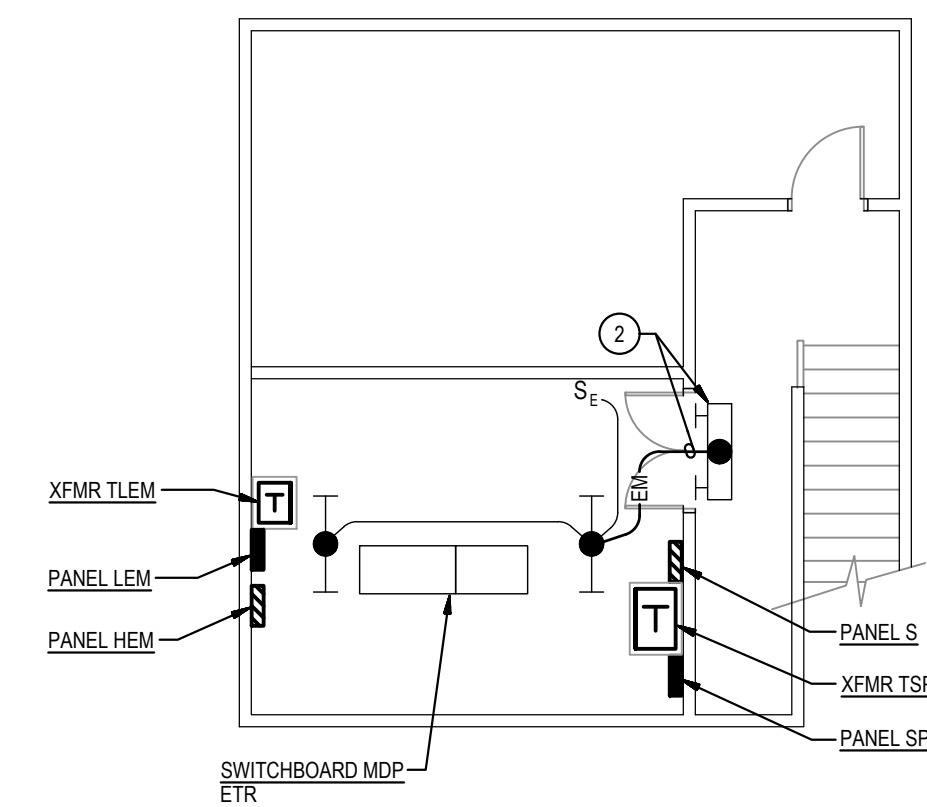
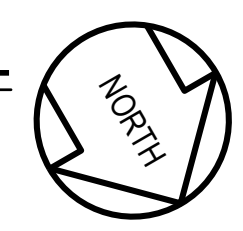
- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD 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.
- 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:

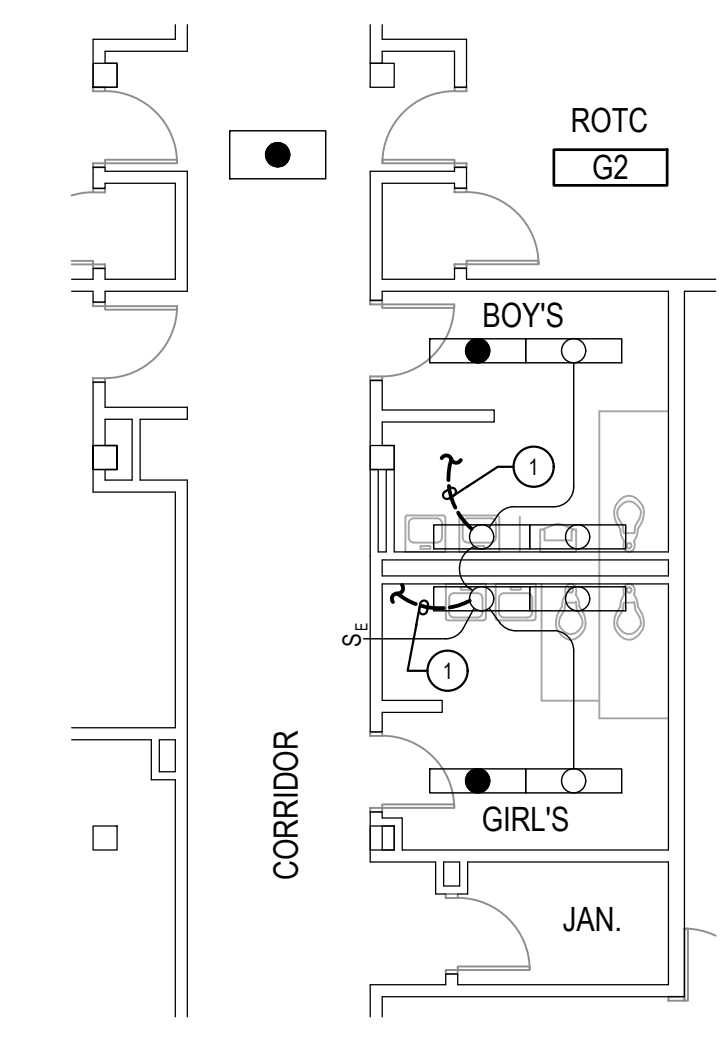
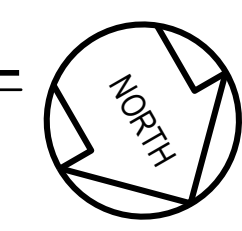
- 1. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRING SERVING EXISTING LIGHTING FIXTURE(S).
- 2. PROVIDE 2 #12 - #12 GROUND IN 3/4" CONDUIT AND CONNECT TO NEAREST EXISTING UNSWITCHED EMERGENCY LIGHTING CIRCUIT.
- 3. REMOVE EXISTING ABANDONED CONDUIT AS NEEDED, TO ALLOW FOR NEW WORK PANELS TO BE INSTALLED. THERE ARE APPROXIMATELY (2) 3/4", (1) 1", (1) 1 1/2", AND (1) 2" EMPTY CONDUITS AT THIS LOCATION.



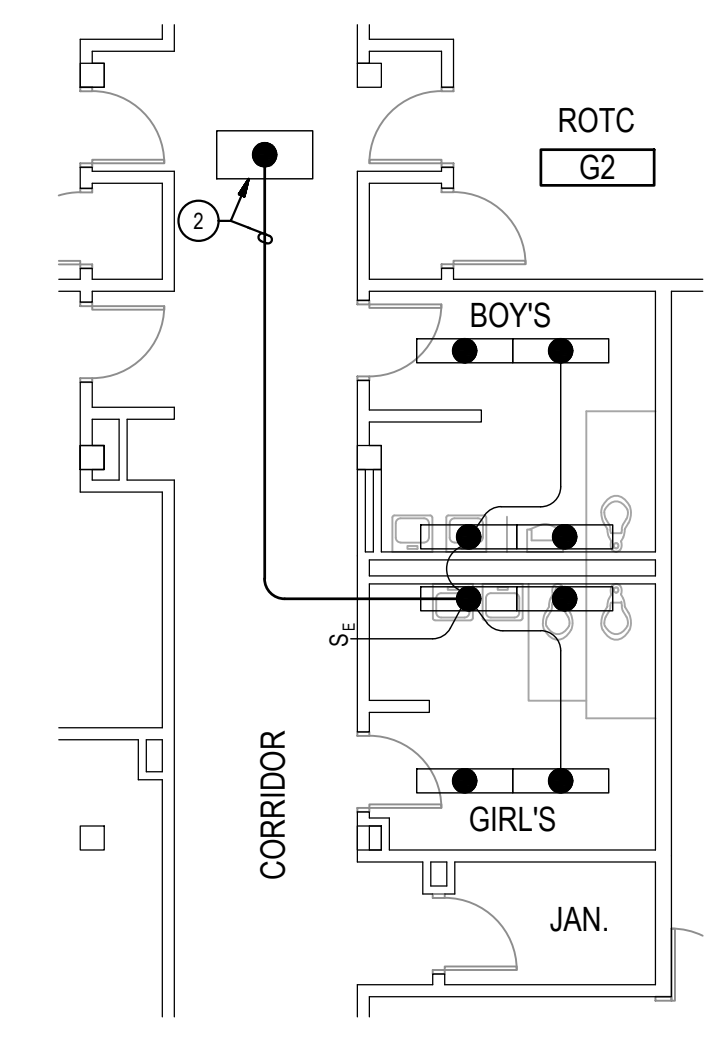
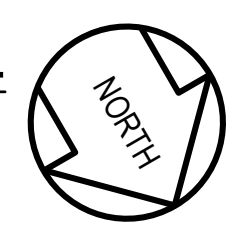
3
E-3
PART PLAN - LOWER LEVEL
DEMOLITION
SCALE: 1/8" = 1'-0"



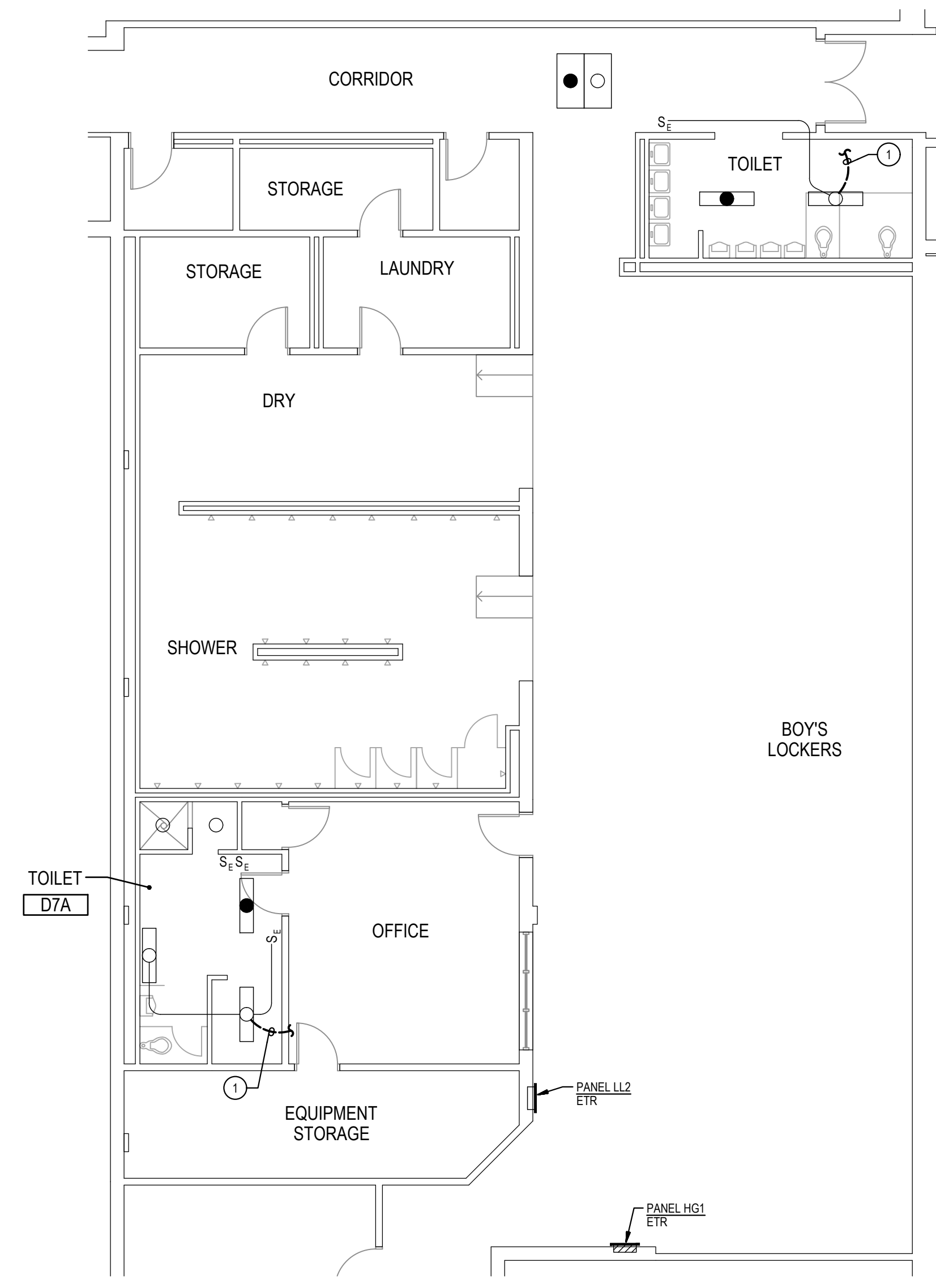
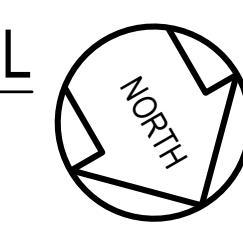
4
E-3
PART PLAN - LOWER LEVEL
NEW WORK
SCALE: 1/8" = 1'-0"



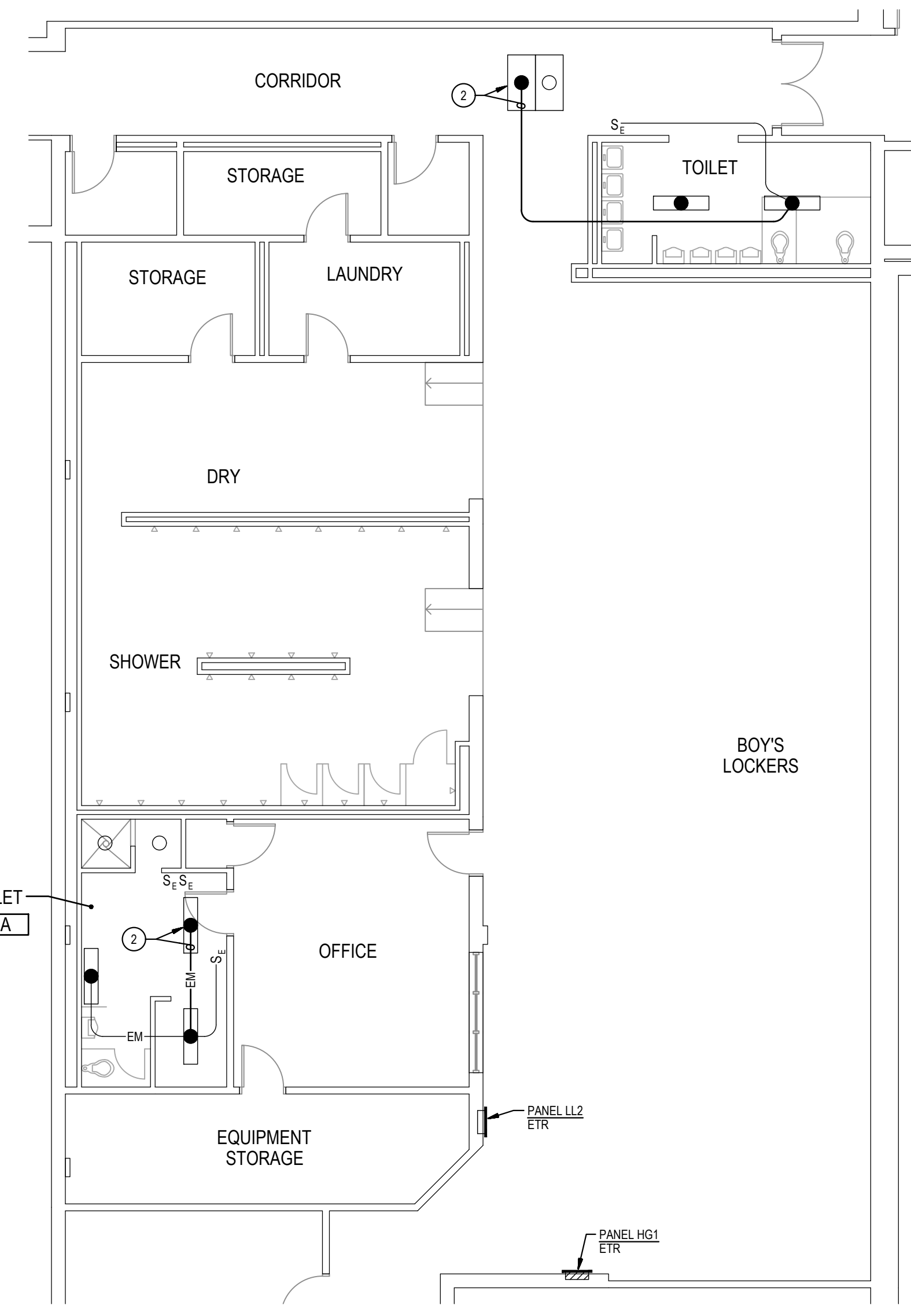
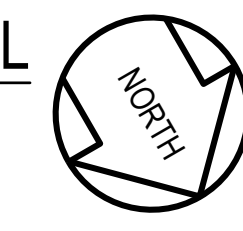
5
E-3
PART PLAN - LOWER LEVEL
DEMOLITION
SCALE: 1/8" = 1'-0"



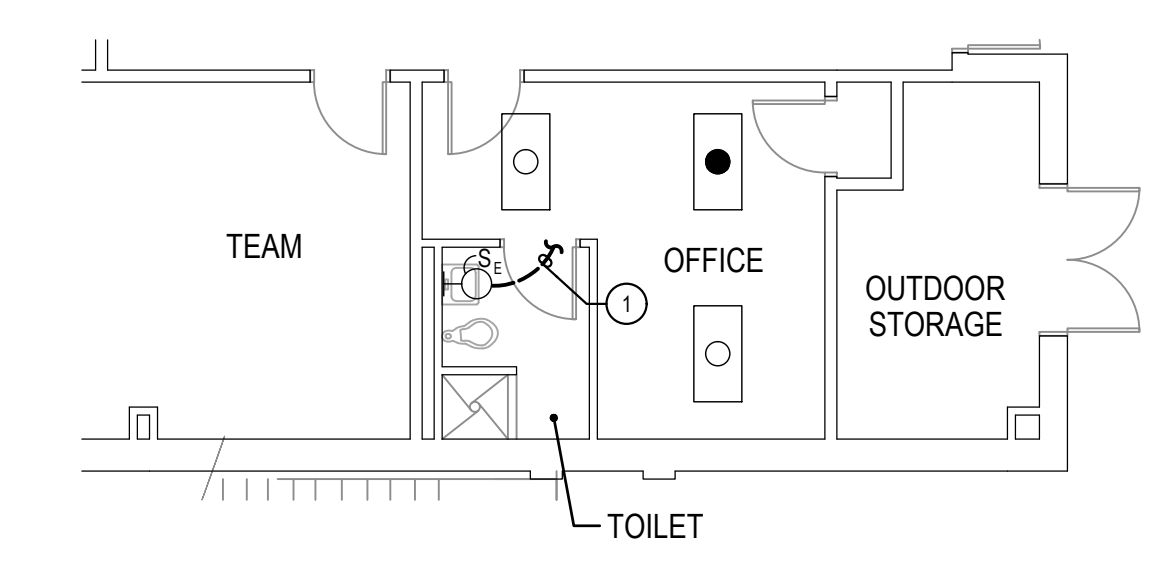
6
E-3
PART PLAN - LOWER LEVEL
NEW WORK
SCALE: 1/8" = 1'-0"



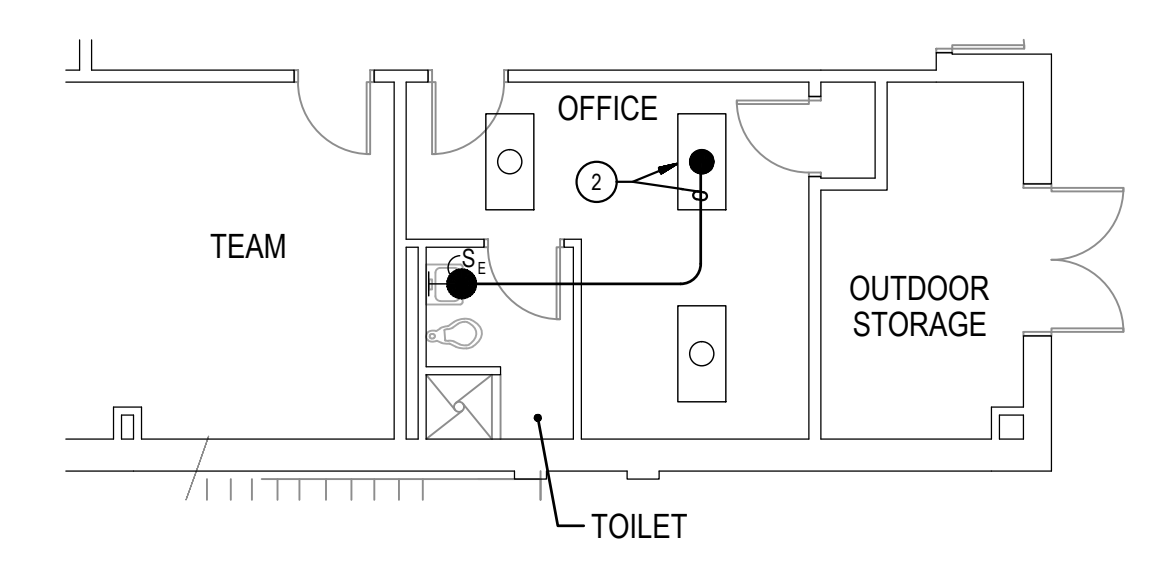
1
E-3
PART PLAN - LOWER LEVEL
DEMOLITION
SCALE: 1/8" = 1'-0"



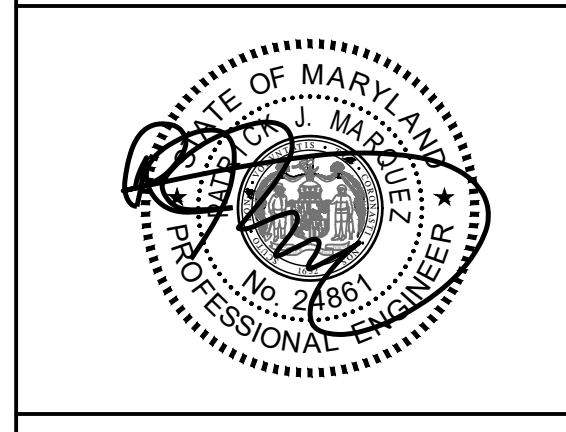
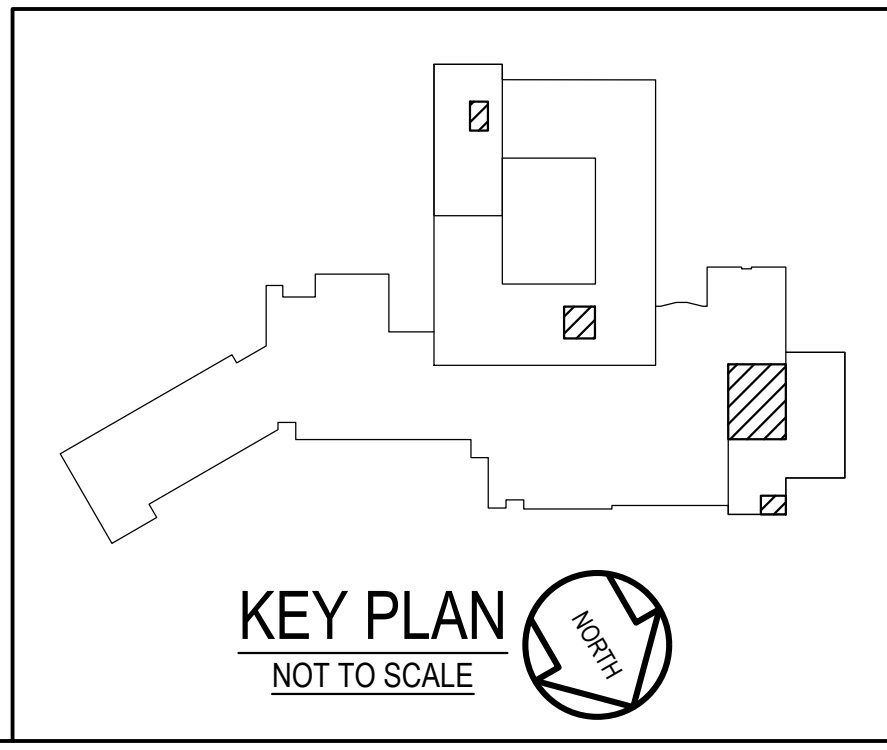
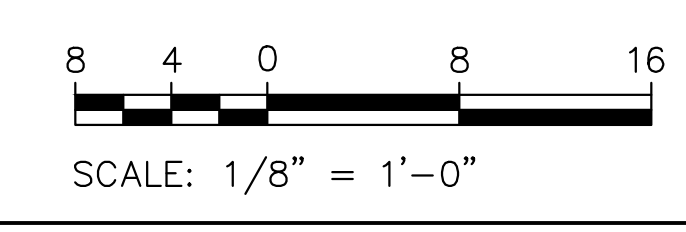
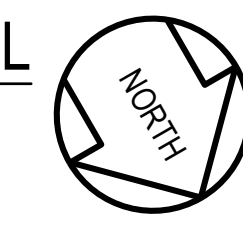
2
E-3
PART PLAN - LOWER LEVEL
NEW WORK
SCALE: 1/8" = 1'-0"



7
E-3
PART PLAN - LOWER LEVEL
DEMOLITION
SCALE: 1/8" = 1'-0"



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



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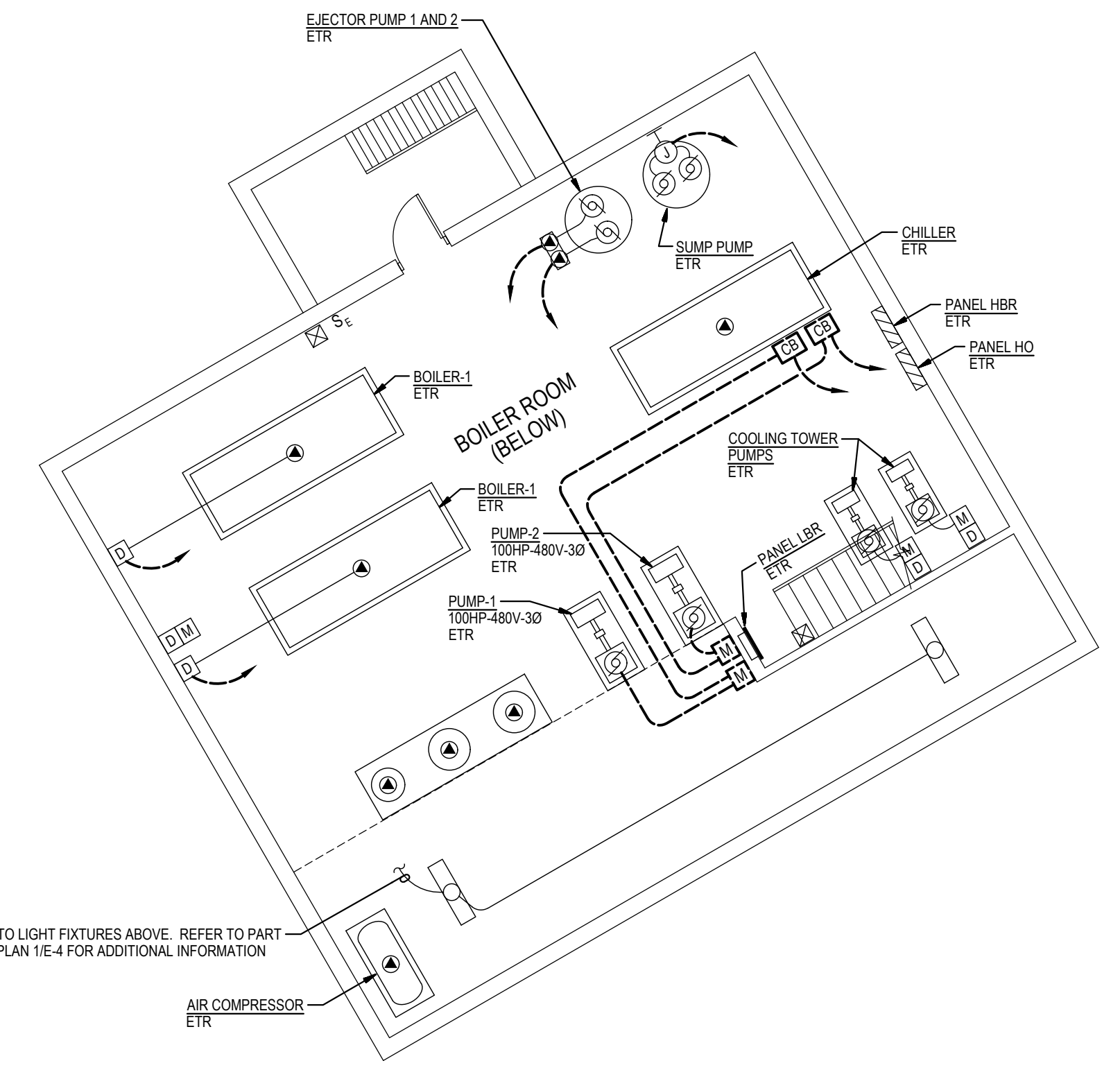
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Scale	AS NOTED
Project No.	7753-22
Date	JUNE 20, 2023

Drawing Title
**PART FLOOR PLANS
DEMOLITION AND
NEW WORK**

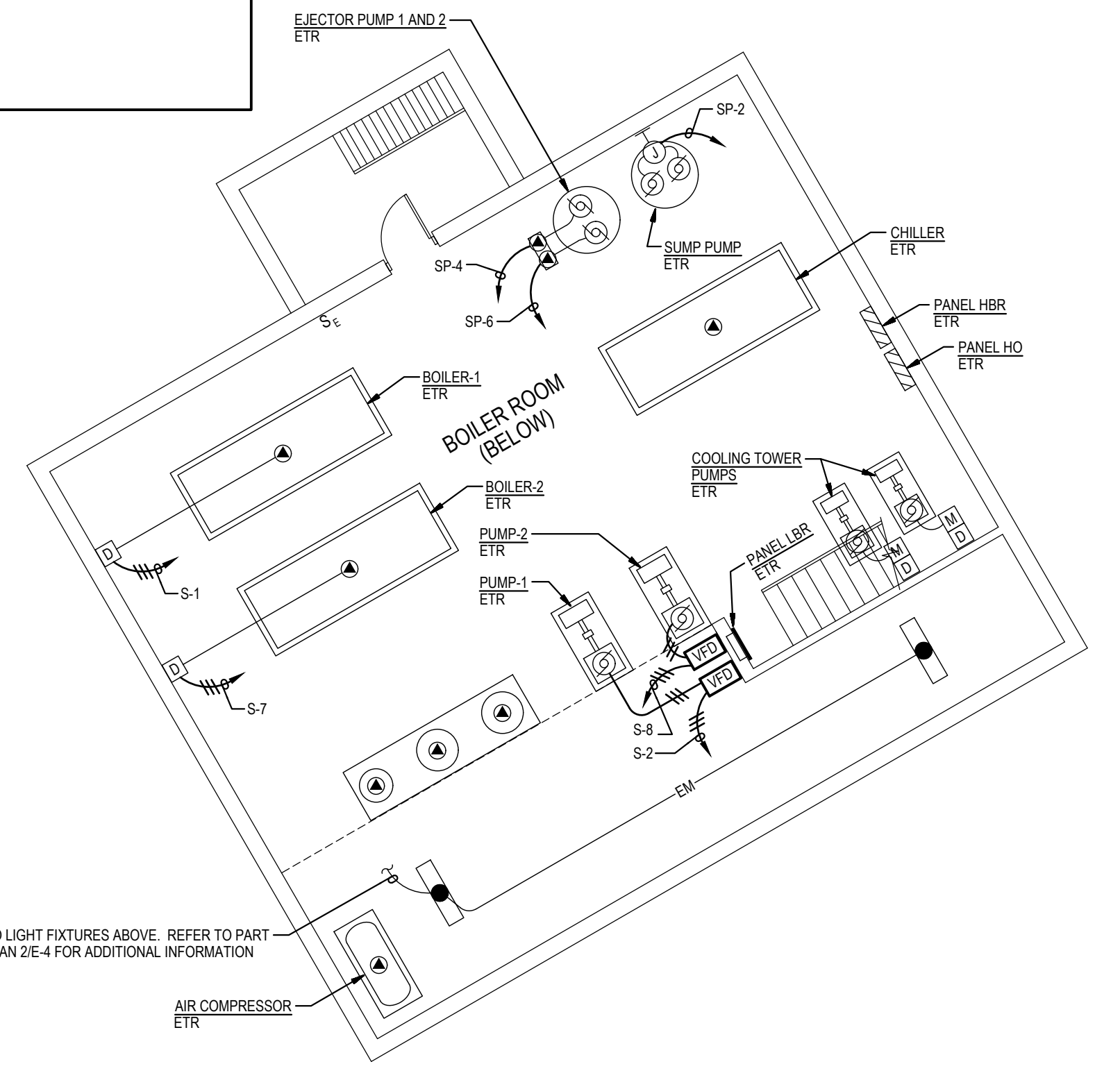
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E-3

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT
SPRINGBROOK HIGH SCHOOL
 201 VALLEY BROOK DRIVE
 SILVER SPRING, MD 20904
 MONTGOMERY COUNTY PUBLIC SCHOOLS

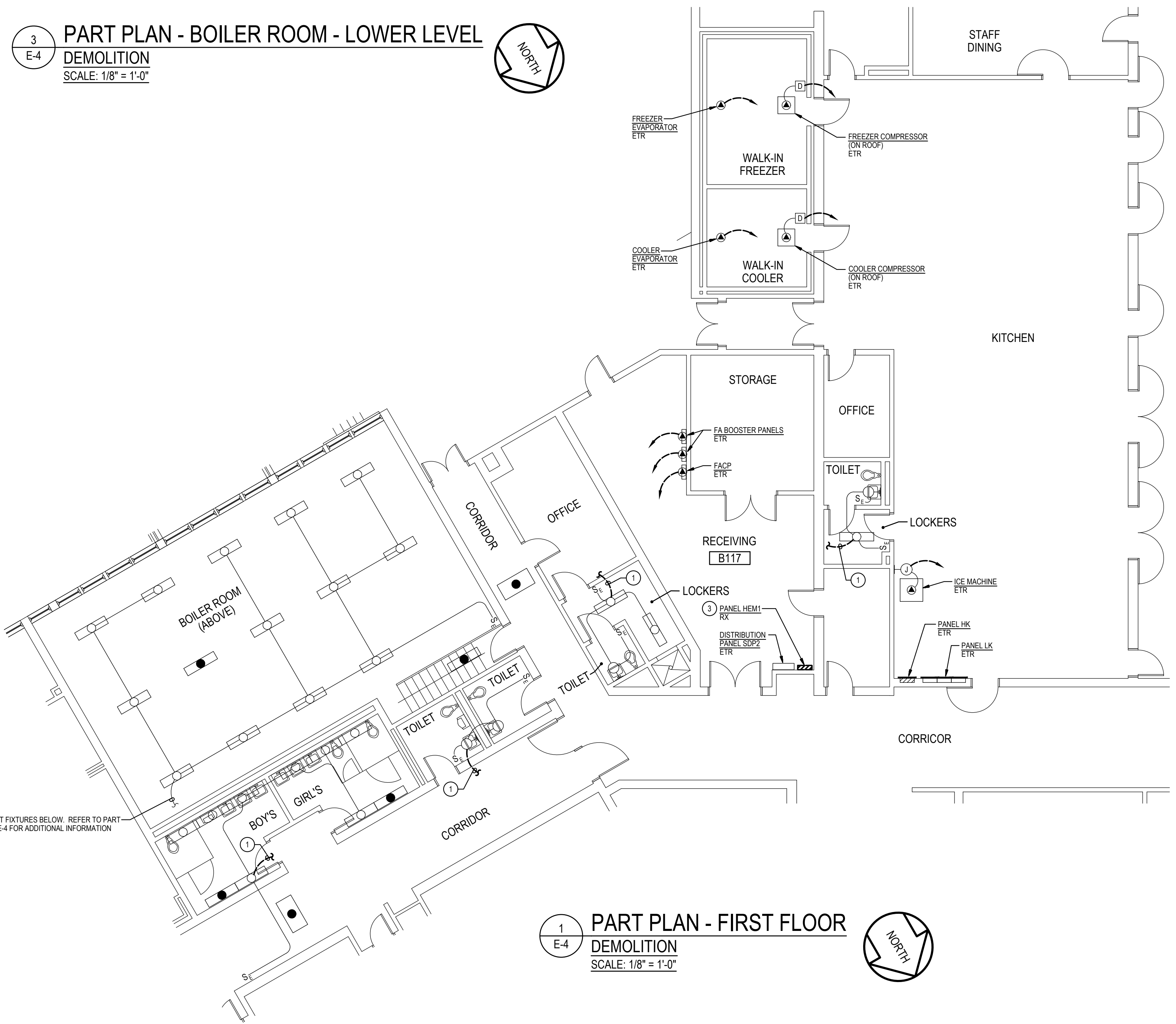
- GENERAL NOTES:**
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 - REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
 - CONSTRUCTION SHALL BE PERFORMED IN PHASES. AVOID INTERRUPTION TO ANY SERVICES. GENERATOR POWER DISTRIBUTION SYSTEM SHALL BE OPERATIONAL AT ALL 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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 - 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 AND REMOVE EXISTING WRING IN CONDUIT SERVING EXISTING LIGHTING FIXTURE(S).
 - PROVIDE 2 #12 #12 GROUND IN 3/4" CONDUIT AND CONNECT TO NEAREST EXISTING UNSWITCHED EMERGENCY LIGHTING CIRCUIT.
 - REMOVE PORTION OF EXISTING CONDUIT AND WIRING BACK TO ACCESSIBLE CEILING SPACE FOR SPLURING TO NEW PANEL. REFER TO NEW WORK PART PLAN FOR ADDITIONAL INFORMATION.
 - EXTEND EXISTING LIGHTING CIRCUITS TO NEW PANEL HEM1. REFER TO PANEL SCHEDULE ON DRAWING E-10 FOR ADDITIONAL INFORMATION.



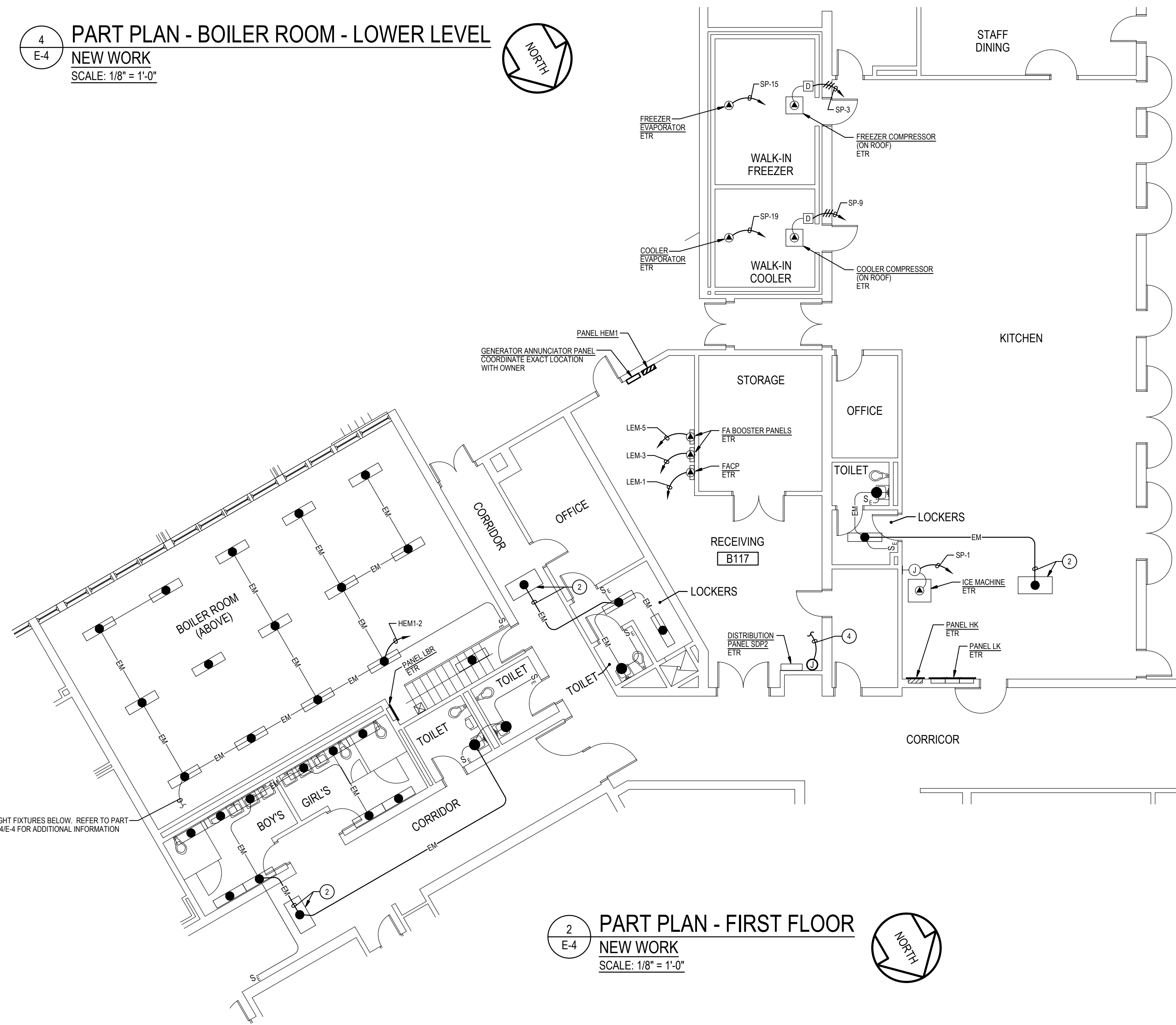
3
E-4
PART PLAN - BOILER ROOM - LOWER LEVEL
DEMOLITION
SCALE: 1/8" = 1'-0"



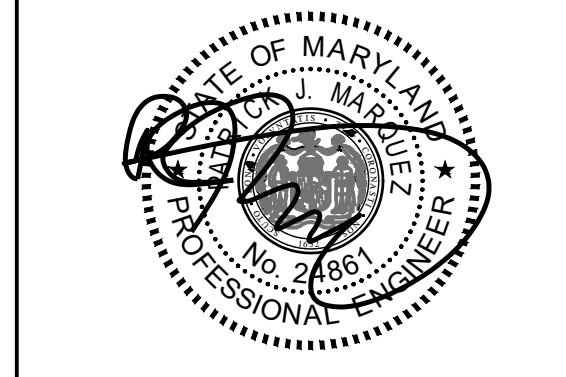
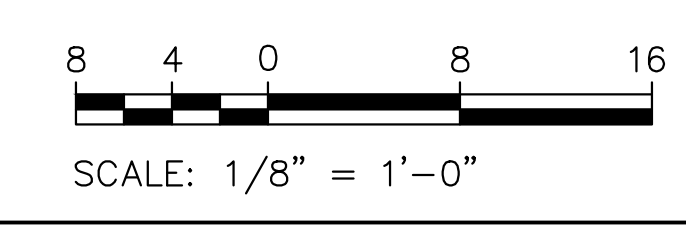
4
E-4
PART PLAN - BOILER ROOM - LOWER LEVEL
NEW WORK
SCALE: 1/8" = 1'-0"



1
E-4
PART PLAN - FIRST FLOOR
DEMOLITION
SCALE: 1/8" = 1'-0"



2
E-4
PART PLAN - FIRST FLOOR
NEW WORK
SCALE: 1/8" = 1'-0"



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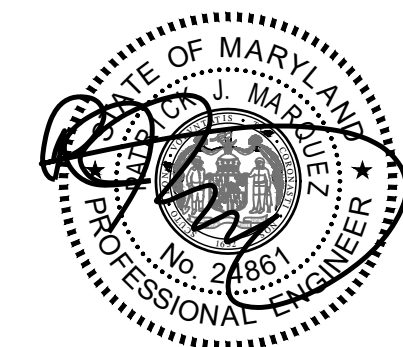
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Drawing Title
PART FLOOR PLANS DEMOLITION AND NEW WORK

Sheet No:
E-4

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT
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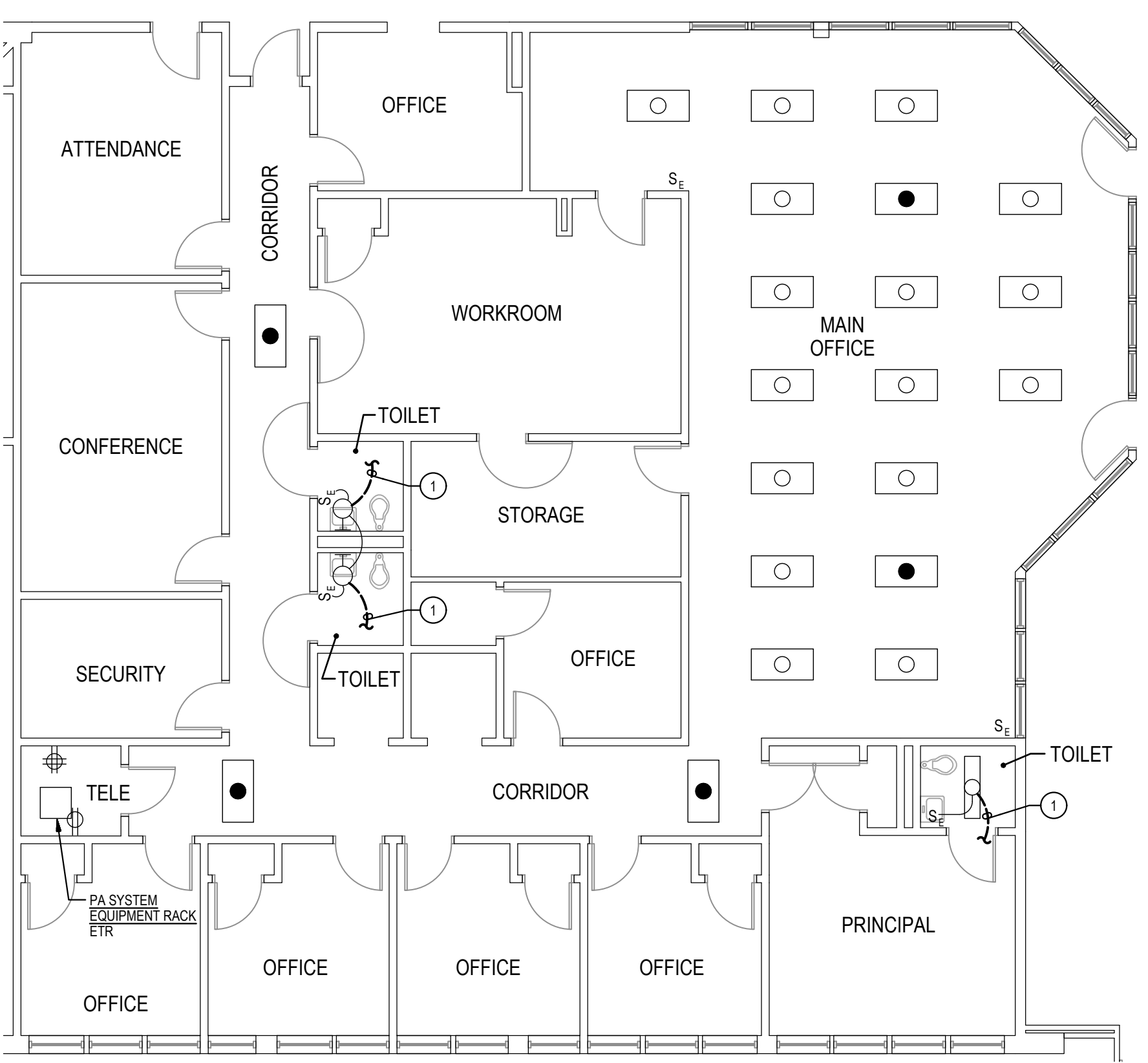
Tag	Description	Date
	BID SET	06/20/23

PSC No.	
Scale	AS NOTED
Project No.	7753-22
Date	JUNE 20, 2023
Drawing Title	PART FLOOR PLANS DEMOLITION AND NEW WORK
Sheet No.	E-5

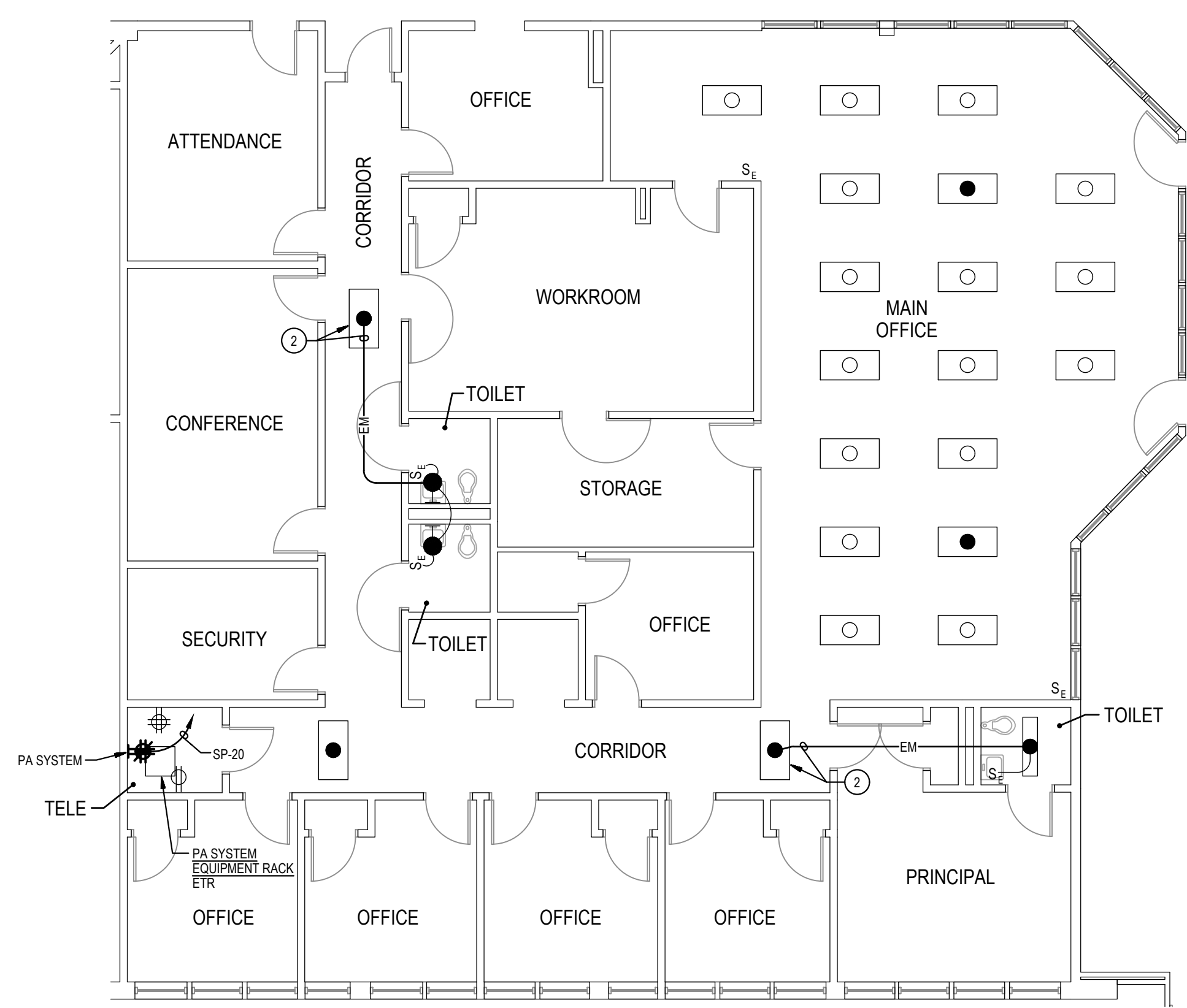
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 - REMOVE AND REINSTALL EXISTING CEILING TILES WITHIN CONSTRUCTION AREAS AS REQUIRED.
 - CONSTRUCTION SHALL BE PERFORMED IN PHASES. AVOID INTERRUPTION TO ANY SERVICES. GENERATOR POWER DISTRIBUTION SYSTEM SHALL BE OPERATIONAL AT ALL TIMES WHEN SCHOOL IS IN SESSION.
 - UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED SHALL BE REMOVED AND ELECTRICAL ITEMS SHOWN LIGHT SOLID SHALL REMAIN.

- GENERAL NOTES (CONTINUED):**
- 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.

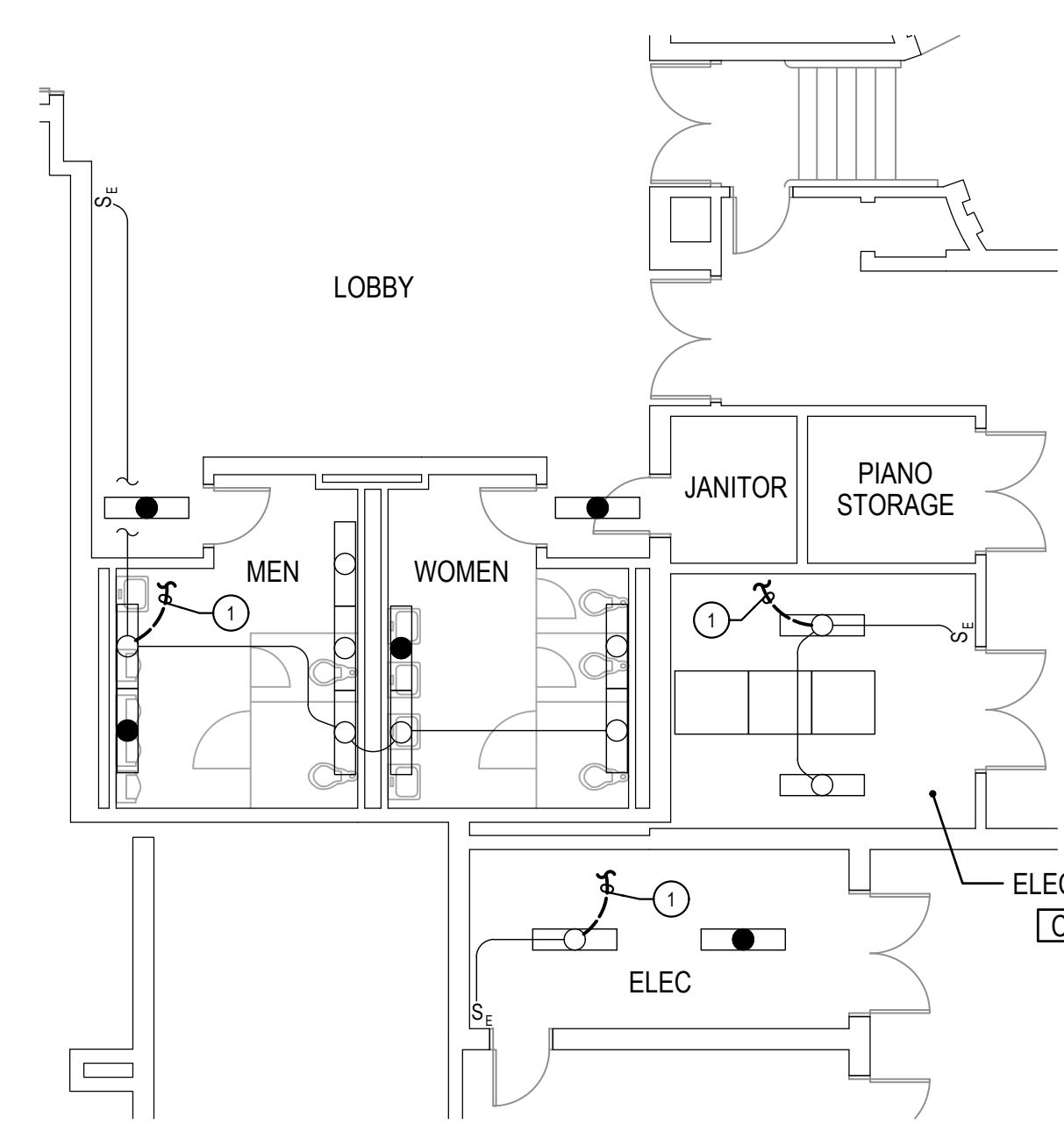
- SPECIFIC NOTES:**
- DISCONNECT AND REMOVE EXISTING WIRING IN CONDUIT SERVING EXISTING LIGHTING FIXTURE(S).
 - PROVIDE #12 - #12 GROUND IN 3/4" CONDUIT AND CONNECT TO NEAREST EXISTING UNSWITCHED EMERGENCY LIGHTING CIRCUIT.
 - REMOVE PORTION OF EXISTING CONDUIT AND WIRING BACK TO ACCESSIBLE CEILING SPACE FOR SPACING TO NEW PANEL. REFER TO NEW WORK PART PLAN FOR ADDITIONAL INFORMATION.
 - EXTEND EXISTING LIGHTING CIRCUITS TO NEW PANEL, HEMZ. REFER TO PANEL SCHEDULE ON DRAWING E-19 FOR ADDITIONAL INFORMATION.
 - DISCONNECT AND REMOVE EXISTING GENERATOR INCLUDING BLOCK HEATER, BATTERY CHARGER, AND CONTROLS. EXISTING HOUSEKEEPING PAD TO REMAIN.



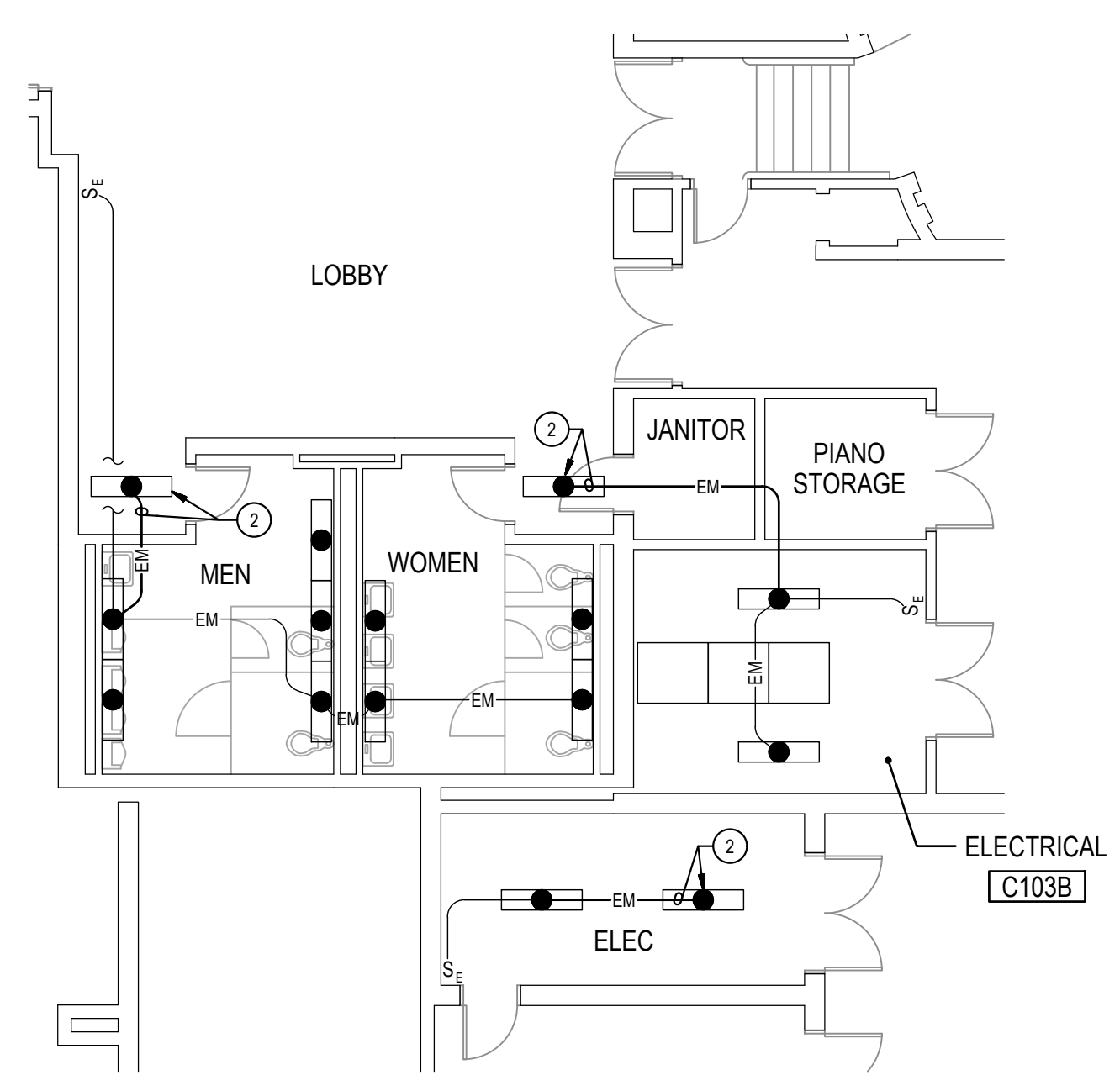
1 PART PLAN - FIRST FLOOR
 DEMOLITION
 SCALE: 1/8" = 1'-0"
 NORTH



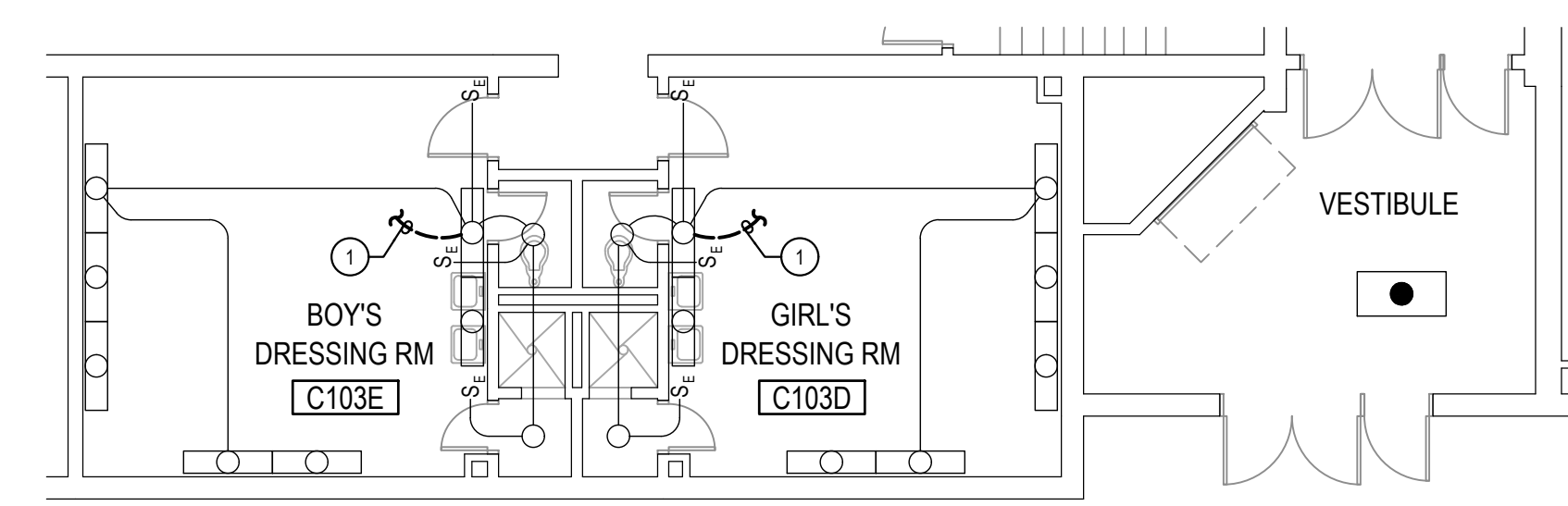
2 PART PLAN - FIRST FLOOR
 NEW WORK
 SCALE: 1/8" = 1'-0"
 NORTH



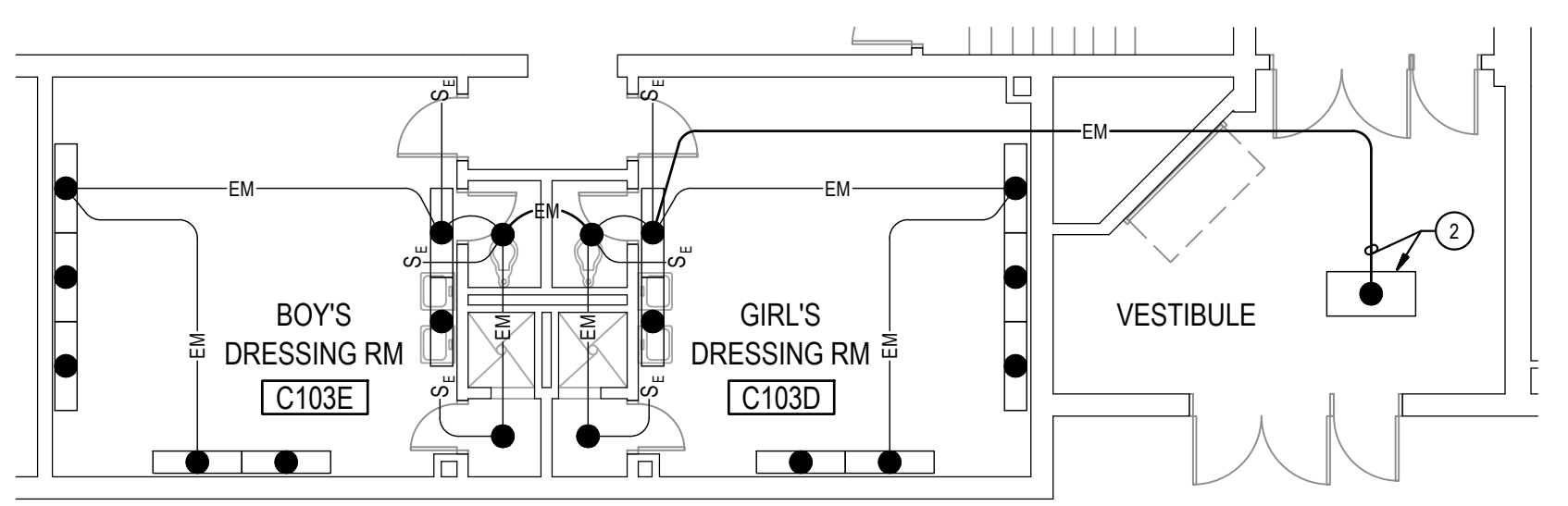
7 PART PLAN - FIRST FLOOR
 DEMOLITION
 SCALE: 1/8" = 1'-0"
 NORTH



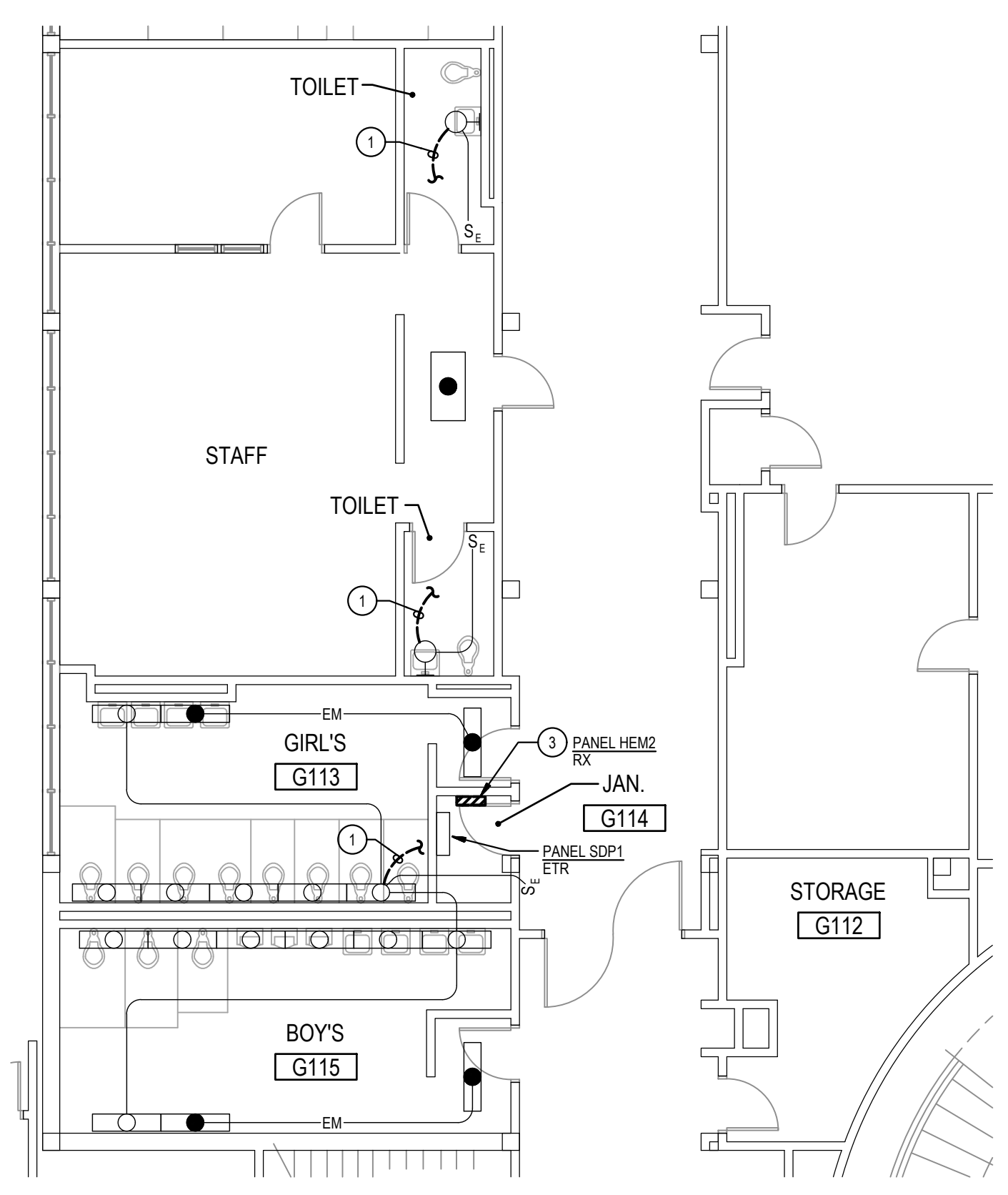
8 PART PLAN - FIRST FLOOR
 NEW WORK
 SCALE: 1/8" = 1'-0"
 NORTH



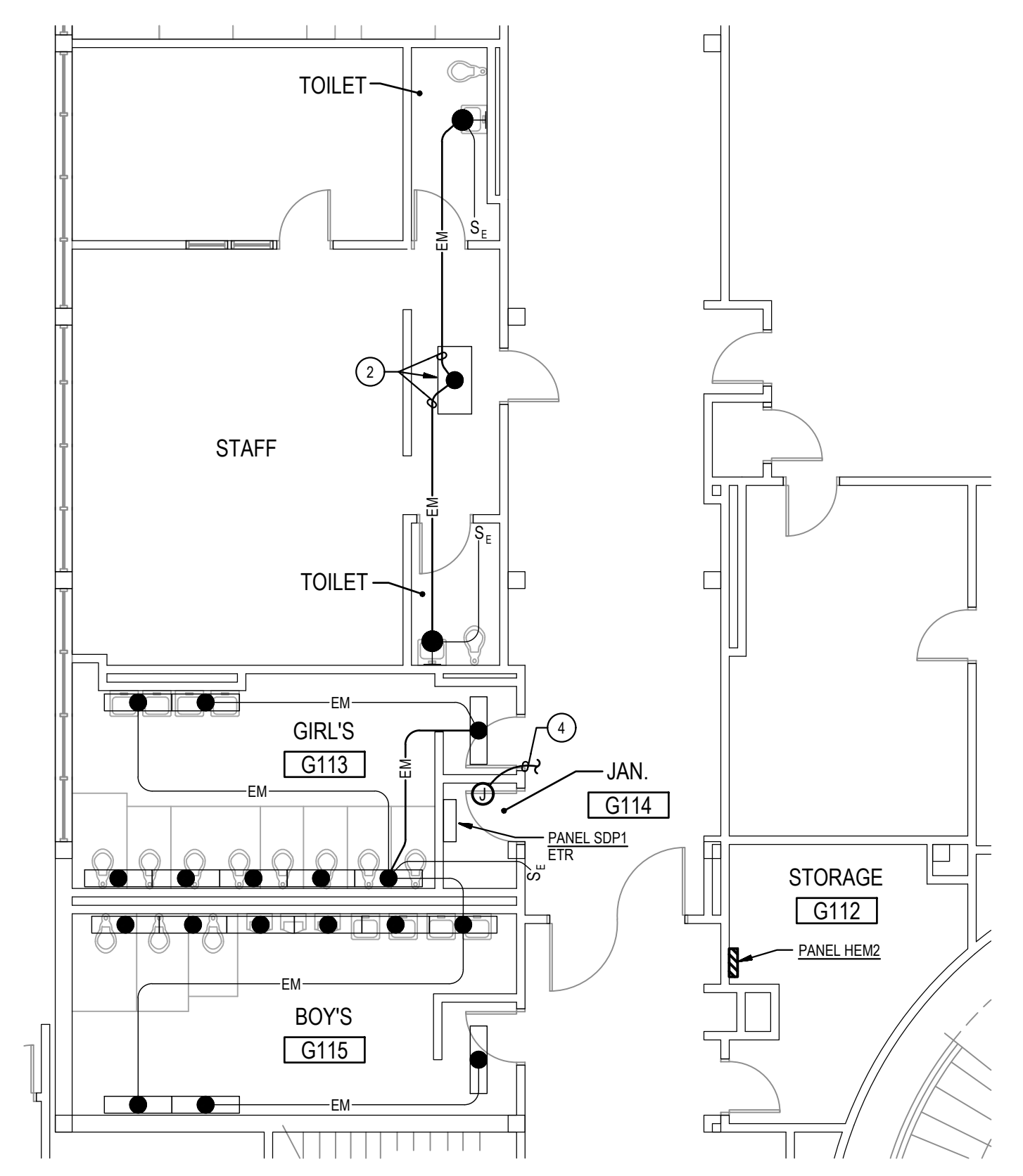
3 PART PLAN - FIRST FLOOR
 DEMOLITION
 SCALE: 1/8" = 1'-0"
 NORTH



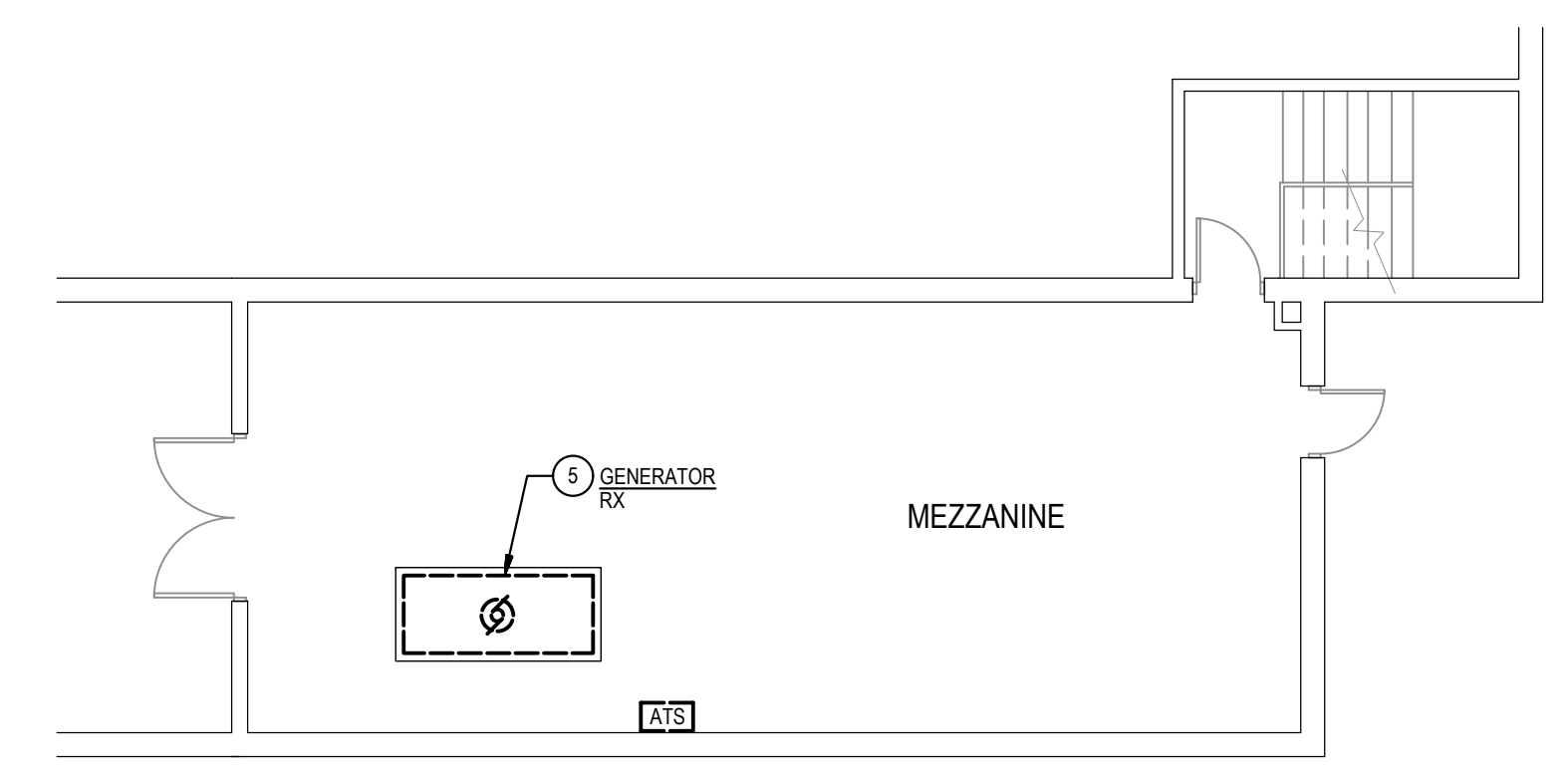
4 PART PLAN - FIRST FLOOR
 NEW WORK
 SCALE: 1/8" = 1'-0"
 NORTH



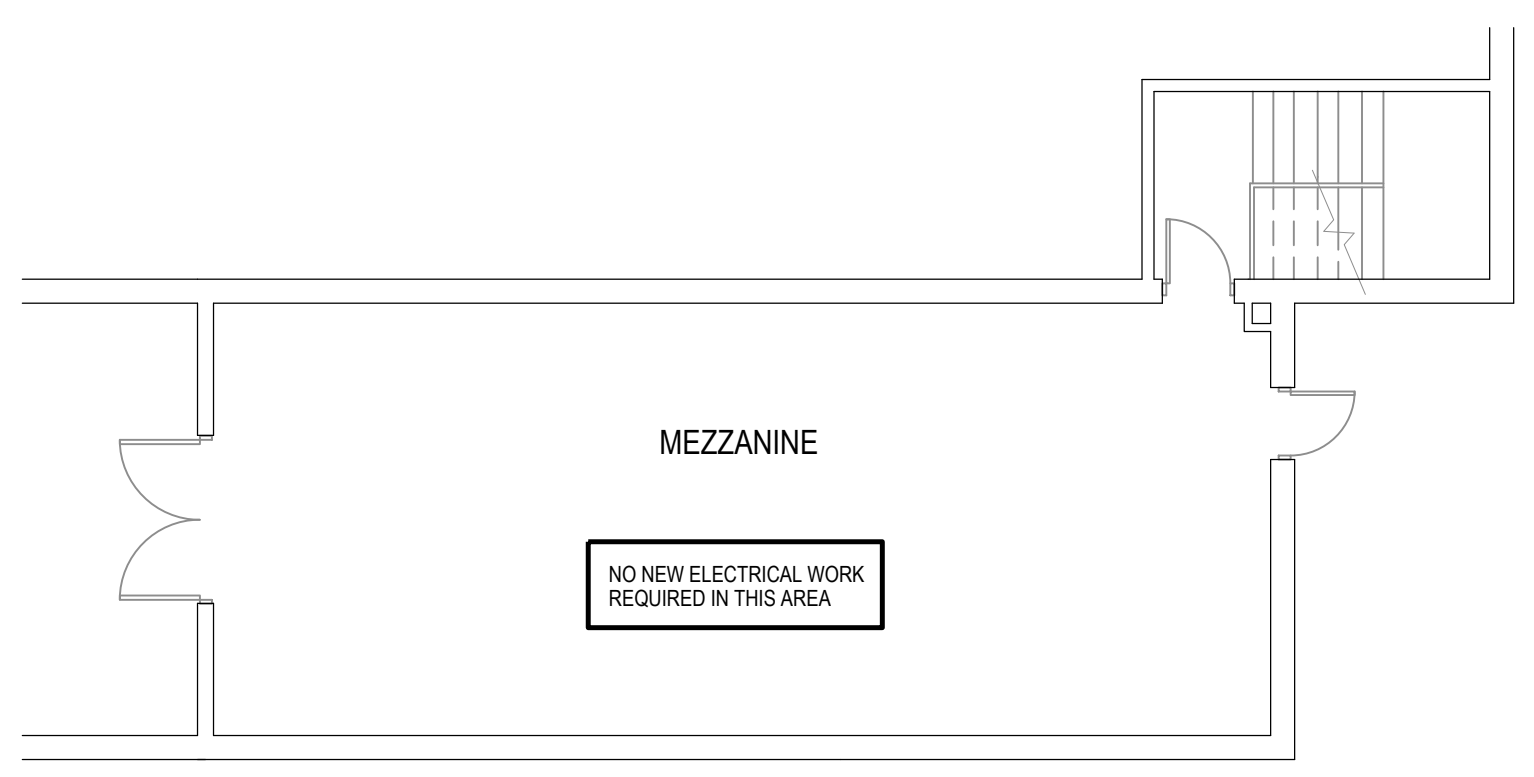
9 PART PLAN - FIRST FLOOR
 DEMOLITION
 SCALE: 1/8" = 1'-0"
 NORTH



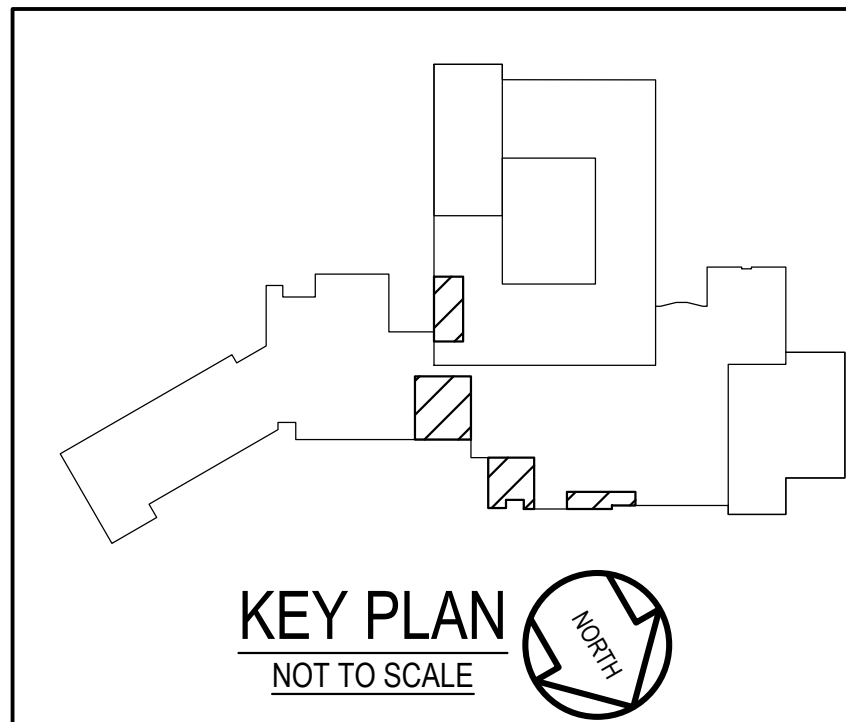
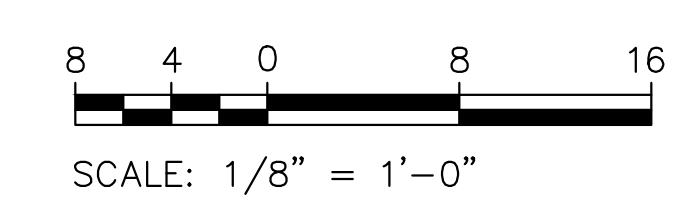
10 PART PLAN - FIRST FLOOR
 NEW WORK
 SCALE: 1/8" = 1'-0"
 NORTH

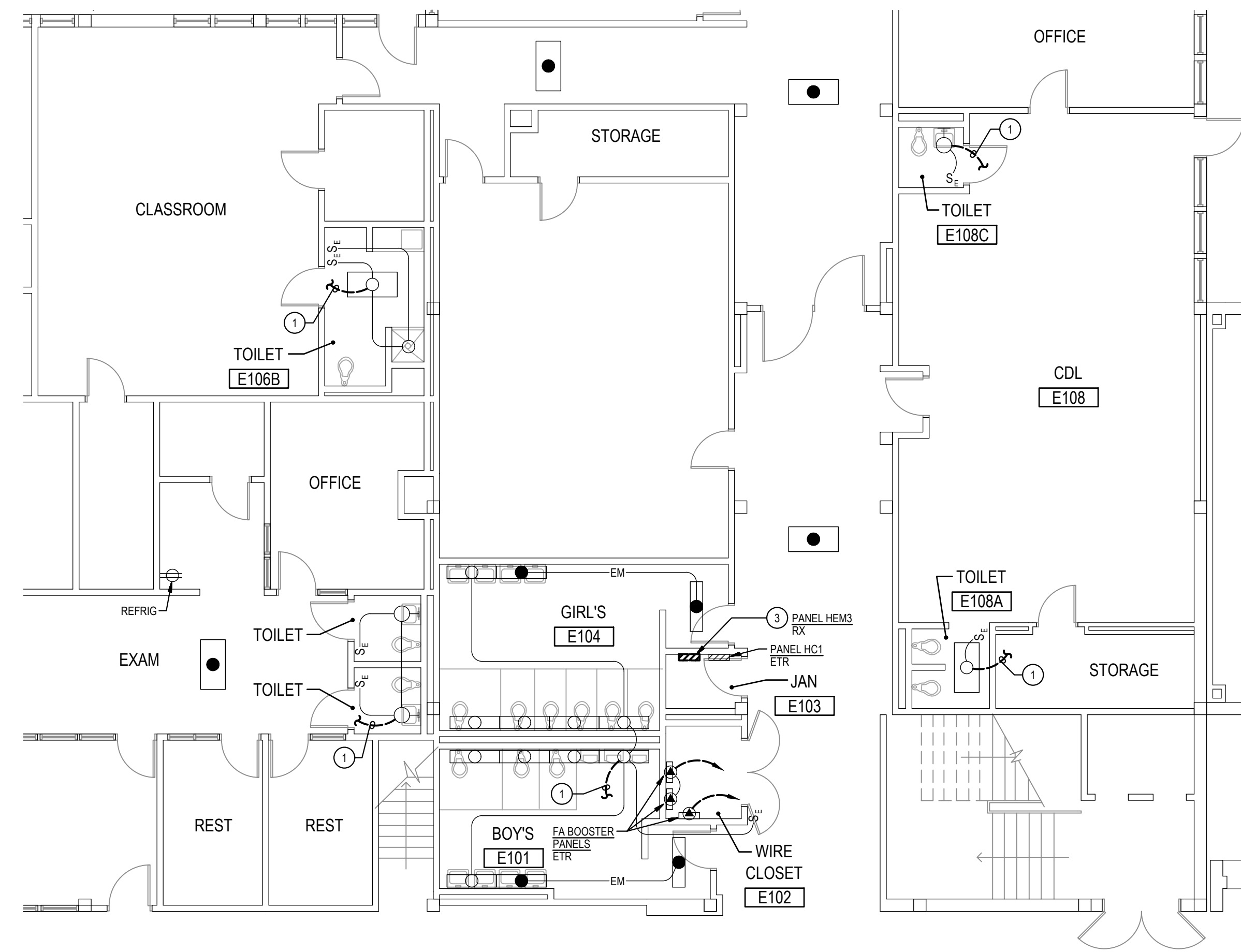


5 PART PLAN - MEZZANINE (ABOVE DRESSING)
 DEMOLITION
 SCALE: 1/8" = 1'-0"
 NORTH

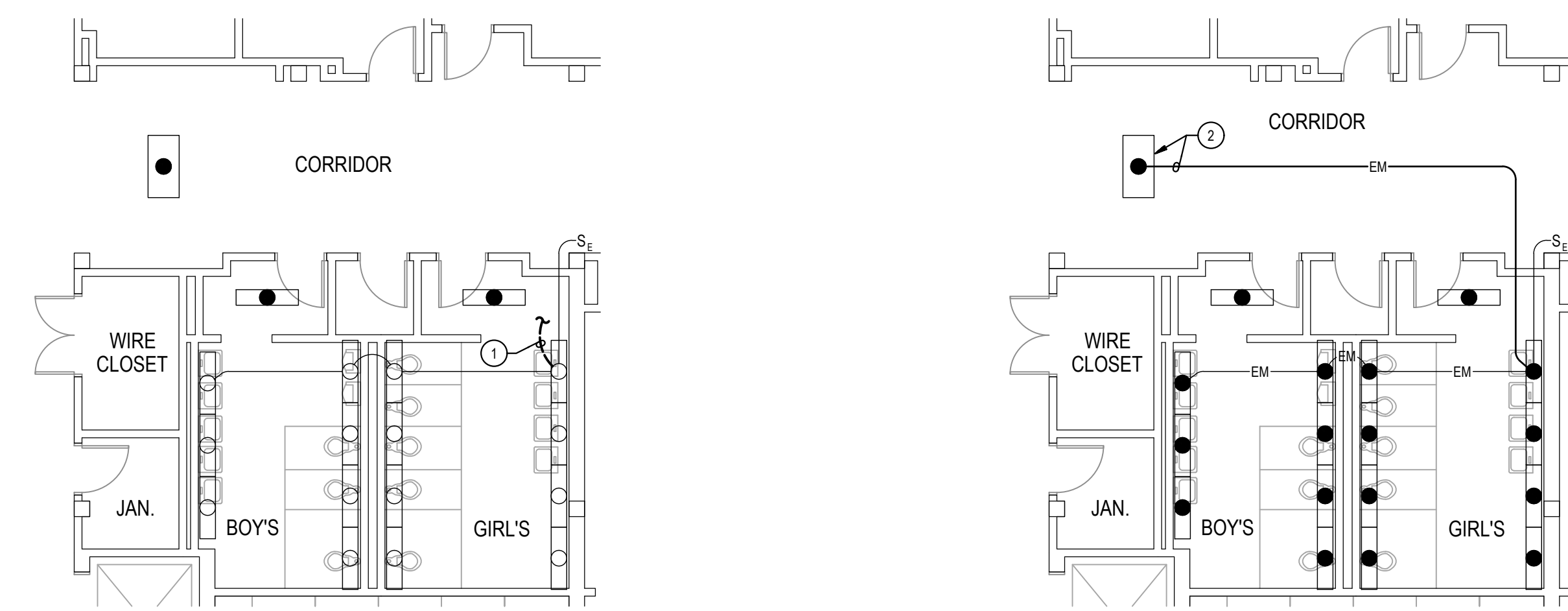


6 PART PLAN - MEZZANINE (ABOVE DRESSING)
 NEW WORK
 SCALE: 1/8" = 1'-0"
 NORTH

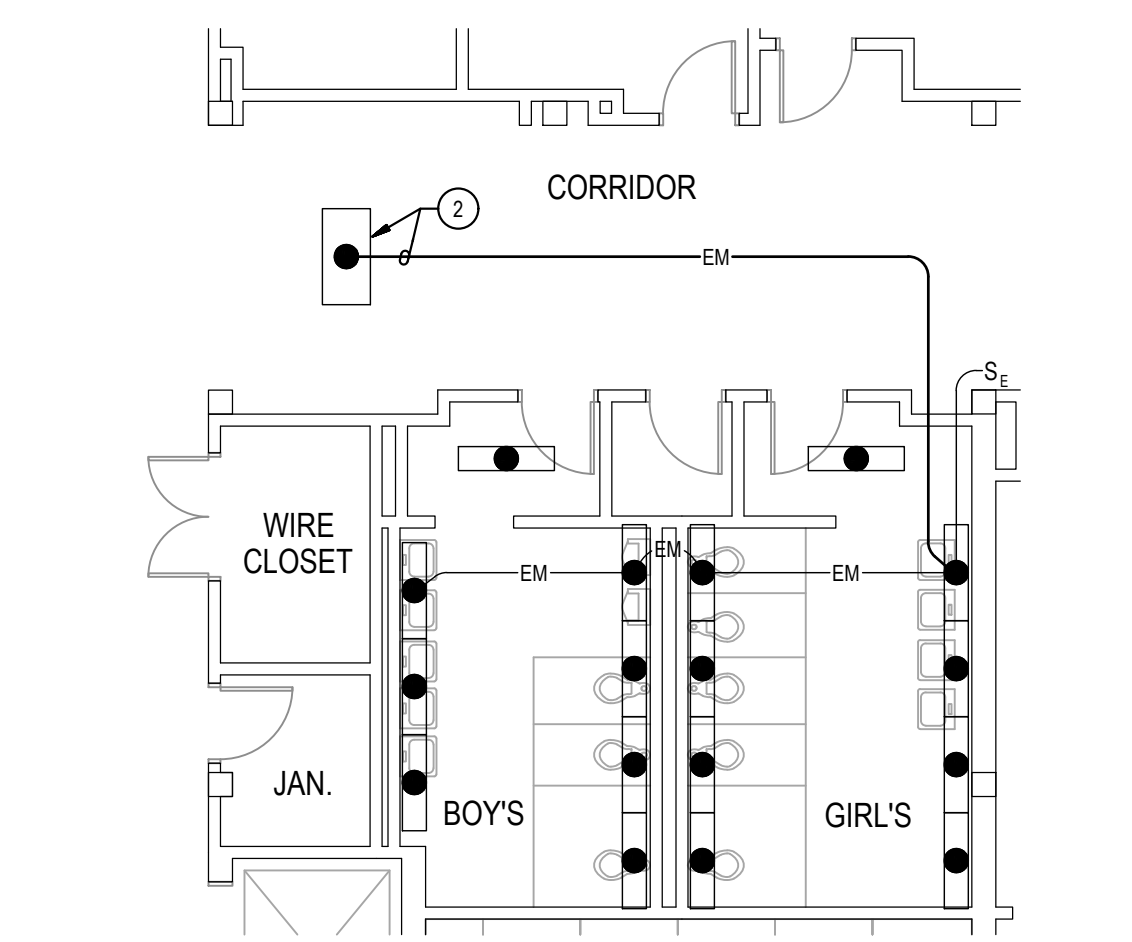




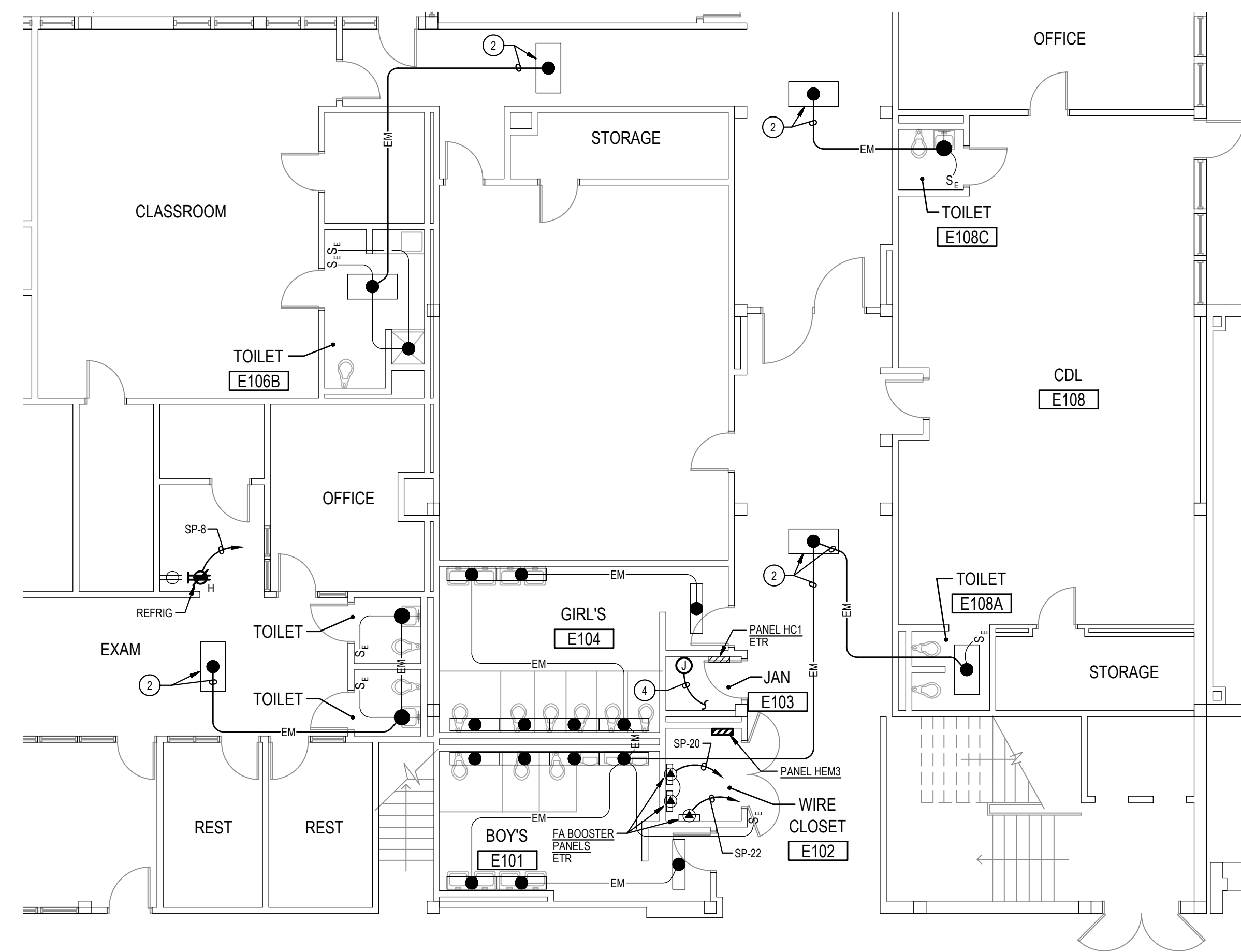
1
E-6
**PART PLAN - FIRST FLOOR
DEMOLITION**
SCALE: 1/8" = 1'-0"



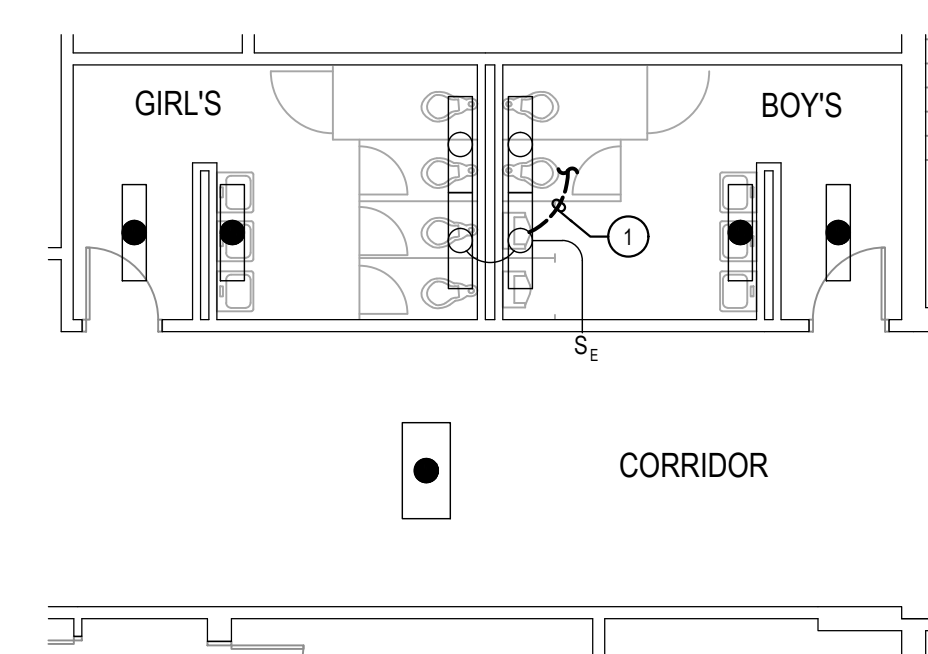
3
E-6
**PART PLAN - FIRST FLOOR
DEMOLITION**
SCALE: 1/8" = 1'-0"



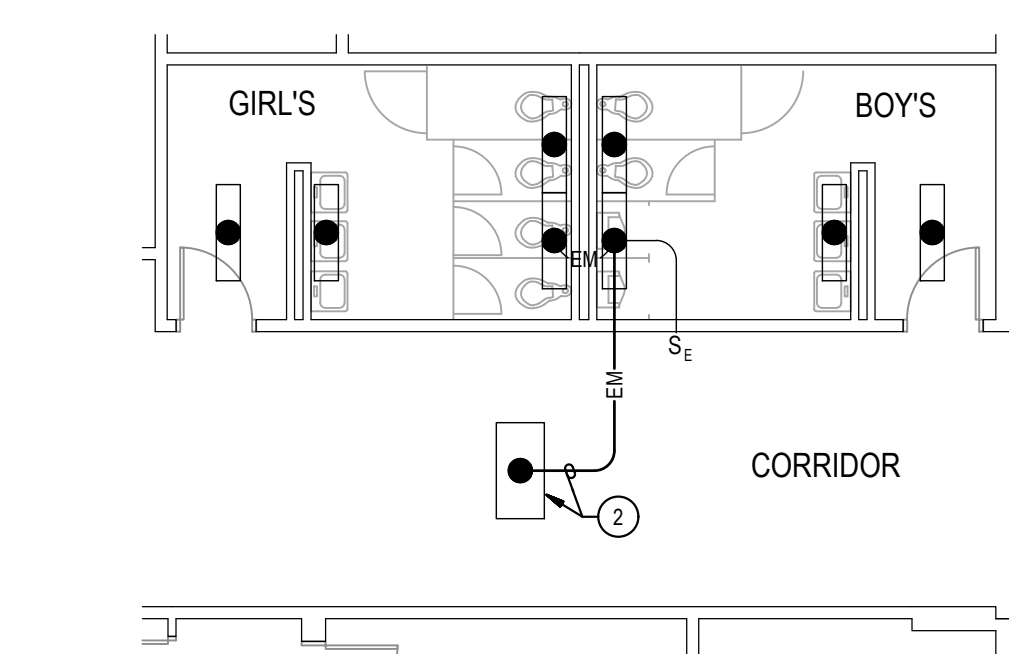
4
E-6
**PART PLAN - FIRST FLOOR
NEW WORK**
SCALE: 1/8" = 1'-0"



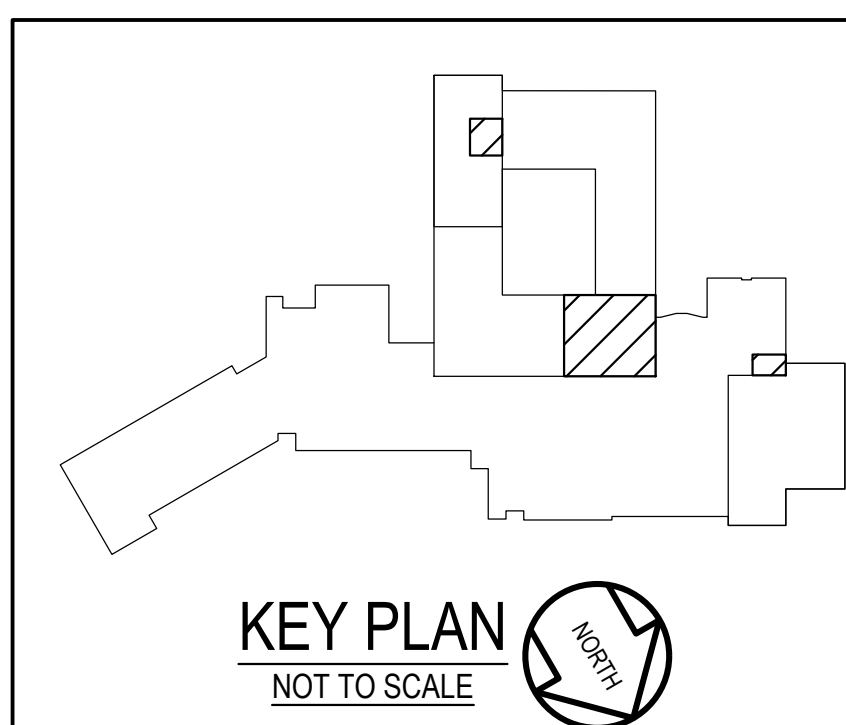
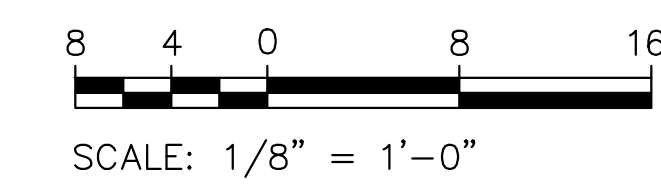
2
E-6
**PART PLAN - FIRST FLOOR
NEW WORK**
SCALE: 1/8" = 1'-0"



5
E-6
**PART PLAN - FIRST FLOOR
DEMOLITION**
SCALE: 1/8" = 1'-0"



6
E-6
**PART PLAN - FIRST FLOOR
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. INTERRUPTION TO THE EXISTING BUILDING ELECTRICAL 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.
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 - IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR DEVICES REMOVED.
- SPECIFIC NOTES:**
- DISCONNECT AND REMOVE EXISTING WIRING IN CONDUIT SERVING EXISTING LIGHTING FIXTURE(S).
 - PROVIDE 2#12-#12G IN 3/4" CONDUIT AND CONNECT TO NEAREST EXISTING UNSWITCHED EMERGENCY LIGHTING CIRCUIT.
 - REMOVE PORTION OF EXISTING CONDUIT AND WIRING BACK TO ACCESSIBLE CEILING SPACE FOR SPACING TO NEW PANEL. REFER TO NEW WORK PART PLAN FOR ADDITIONAL INFORMATION.
 - EXTEND EXISTING LIGHTING CIRCUITS TO NEW PANEL HEMS. REFER TO PANEL SCHEDULE ON DRAWING E-10 FOR ADDITIONAL INFORMATION.

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT
SPRINGBROOK HIGH SCHOOL
 201 VALLEY BROOK DRIVE
 SILVER SPRING, MD 20904
 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: 02-24-2024.

James Posey Associates
 Engineering Your Vision

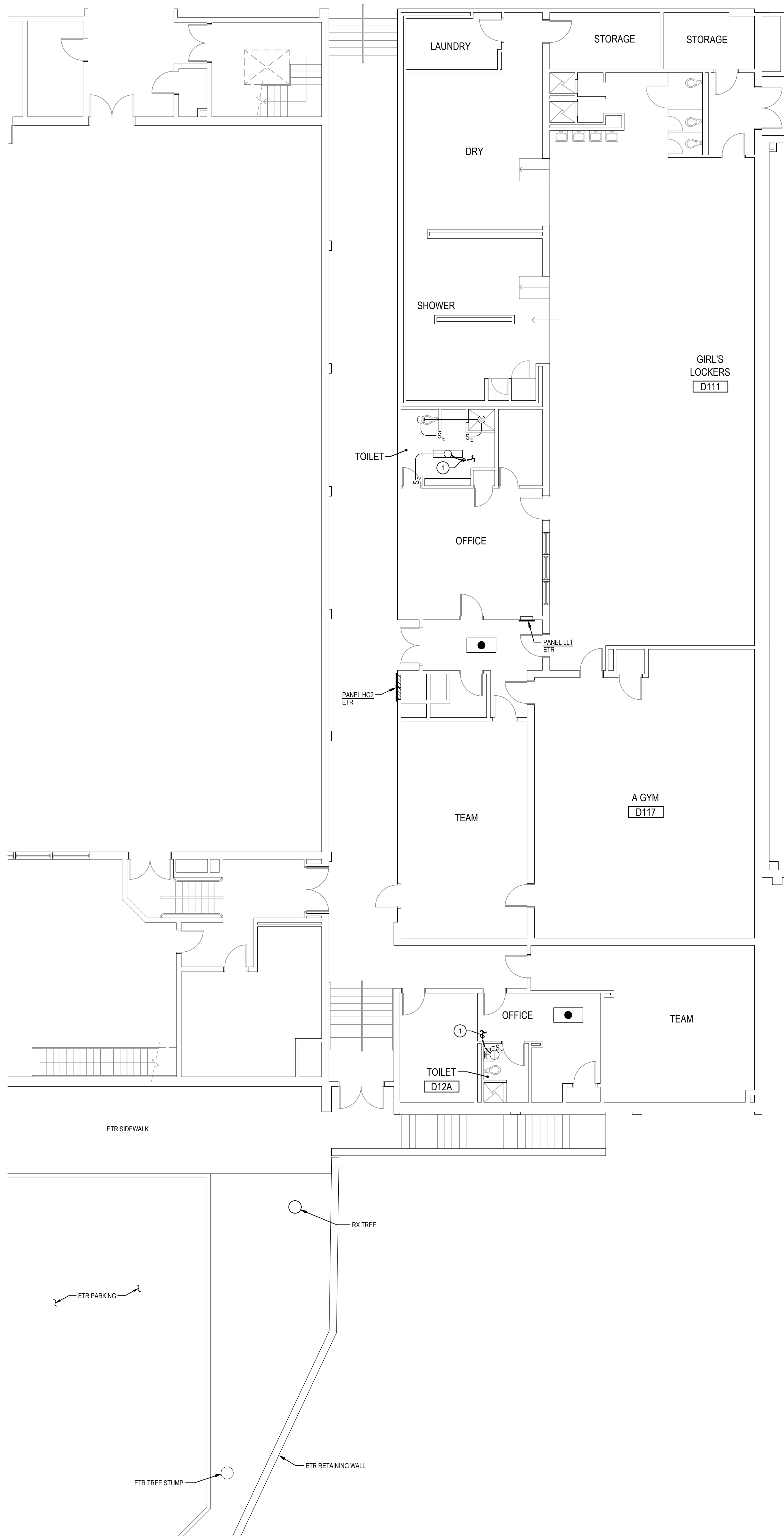
Mechanical & Electrical
 Consulting Engineers
 1155 Red Run Boulevard, Suite 310
 Baltimore, Maryland 21117
 tel 410-265-6100
 jamesposey.com

Tag	Description	Date
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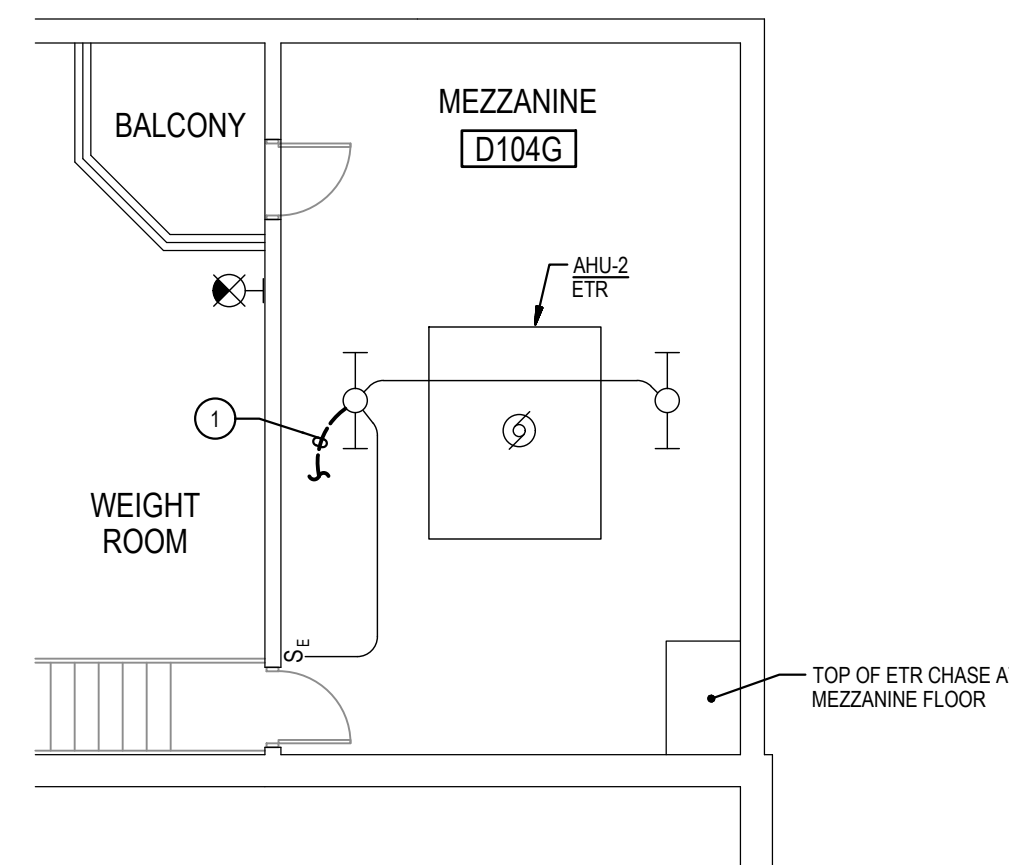
PSC No.	
Scale	AS NOTED
Project No.	7753-22
Date	JUNE 20, 2023

Drawing Title
**PART FLOOR PLANS
 DEMOLITION AND
 NEW WORK**

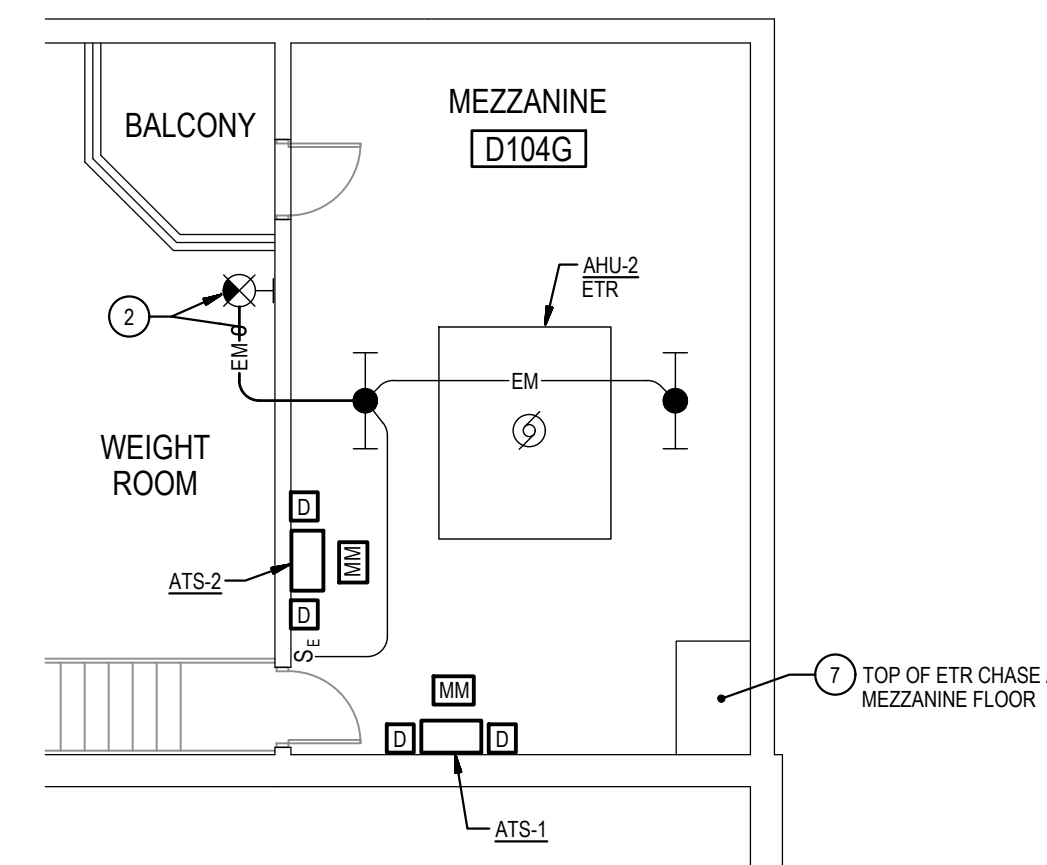
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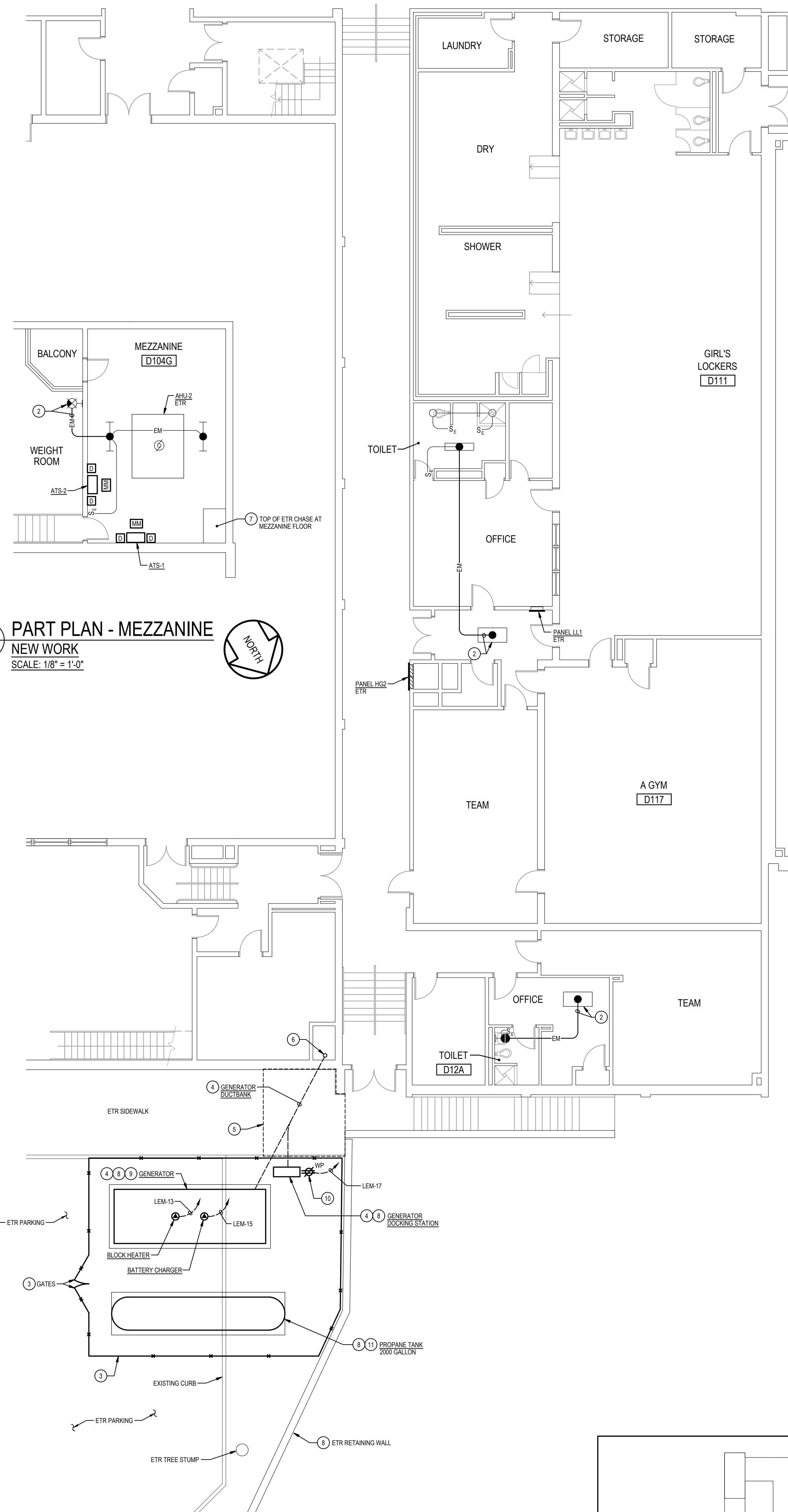
1 PART PLAN - FIRST FLOOR
DEMOLITION
 SCALE: 1/8" = 1'-0"



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



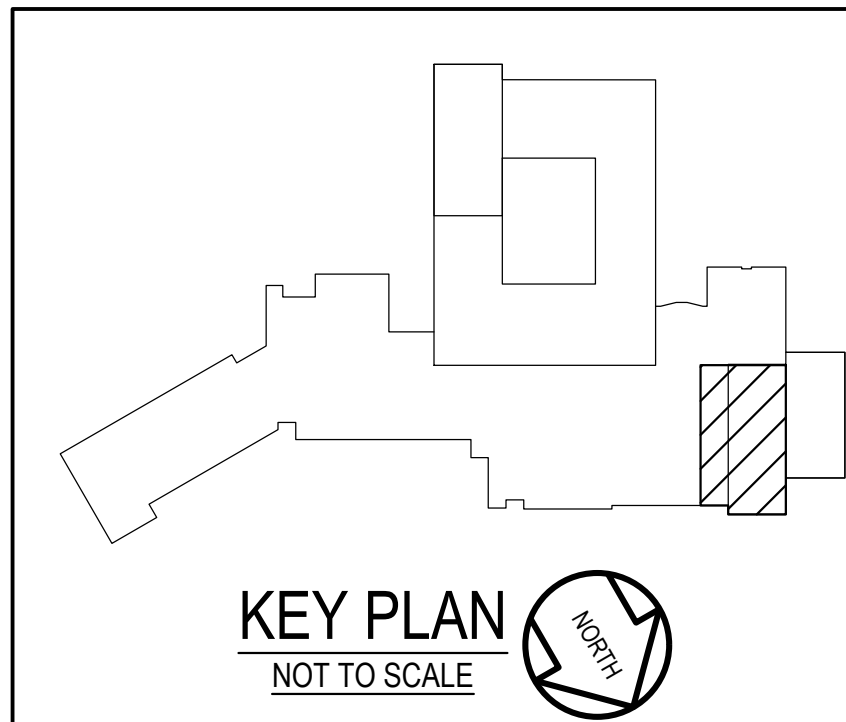
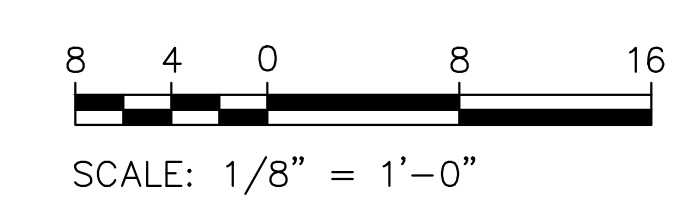
4 PART PLAN - MEZZANINE
NEW WORK
 SCALE: 1/8" = 1'-0"



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

- 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.
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 - 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 AND REMOVE EXISTING WIRING IN CONDUIT SERVING EXISTING LIGHTING FIXTURE(S).
 - PROVIDE 2#12x#20 IN 3/4" CONDUIT AND CONNECT TO NEAREST EXISTING UNSWITCHED EMERGENCY LIGHTING CIRCUIT.
 - PROVIDE 8'-0" TALL CHAIN LINK FENCE WITH 8'-0" WIDE OPENING AND TWO 4'-0" WIDE GATES.
 - REFER TO POWER RISER DIAGRAM 2E-6 FOR CONNECTIONS, DUCTBANK SIZES, AND ADDITIONAL INFORMATION ON ELECTRICAL EQUIPMENT AS NOTED.
 - CUT AND PATCH EXISTING CONCRETE SIDEWALK AS NEEDED FOR INSTALLATION OF GENERATOR DUCTBANK.
 - ROUTE CONDUITS UP THRU EXISTING CHASE TO MEZZANINE ABOVE. REFER TO PART PLAN 4E-7 FOR ADDITIONAL INFORMATION.
 - ADJUST EXISTING FLOOR GRATE TO ALLOW ROUTING OF GENERATOR CONDUITS THRU GRATE.
 - MAINTAIN A MINIMUM CLEARANCE OF 5'-6" FROM NEAREST SIDE OF RETAINING WALL TO EQUIPMENT, INCLUDING HOUSEKEEPING PADS.
 - LOCATE GENERATOR SO THAT EXHAUST IS DIRECTED AWAY FROM BUILDING.
 - INSTALL RECEPTACLE ON STEEL CHANNEL SUPPORT OF GENERATOR DOCKING STATION.
 - COORDINATE PROPANE TANK SIZING WITH FUEL PROVIDER.



GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT
SPRINGBROOK HIGH SCHOOL
 201 VALLEY BROOK DRIVE
 SILVER SPRING, MD 20904
 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: 02-24-2024.

James Posey Associates
 Engineering Your Vision

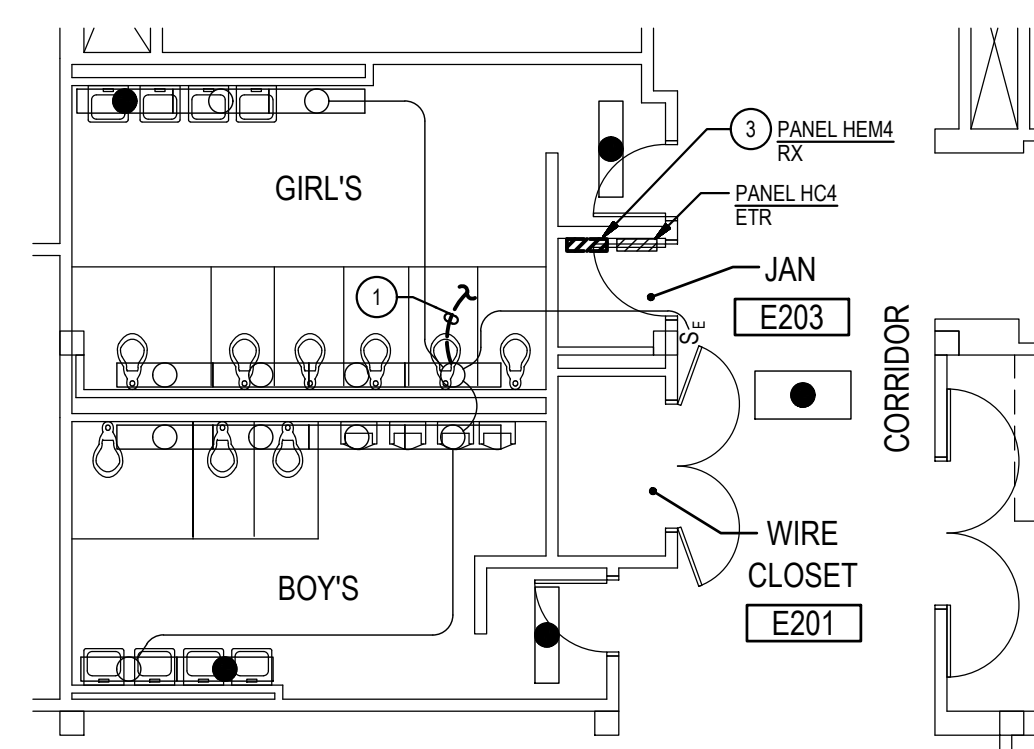
Mechanical & Electrical Consulting Engineers
 11155 Red Run Boulevard, Suite 310
 Baltimore, Maryland 21117
 tel 410-265-6100
 jamesposey.com

Tag	Description	Date
	BID SET	06/20/23

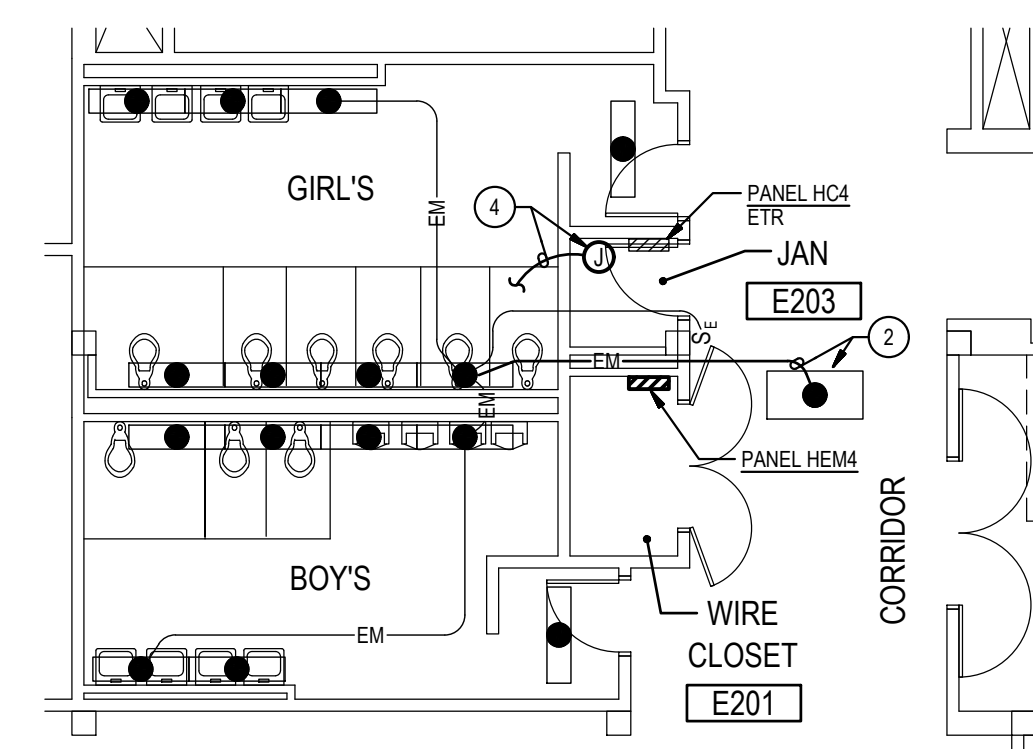
PSC No.
 Scale AS NOTED
 Project No. 7753-22
 Date JUNE 20, 2023

Drawing Title
PART FLOOR PLANS
DEMOLITION AND
NEW WORK

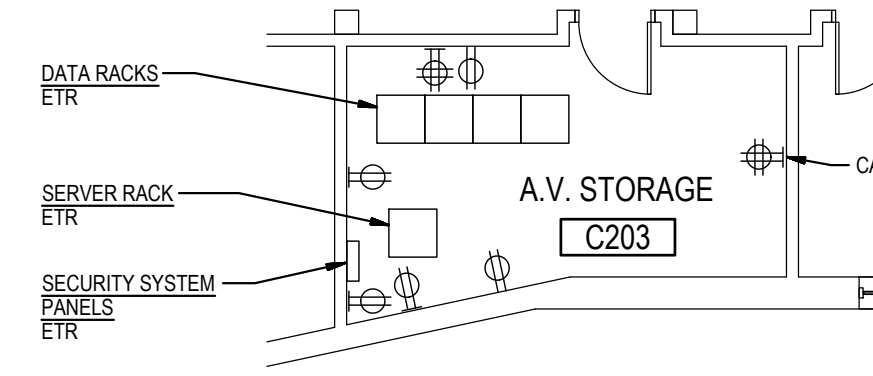
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E-7



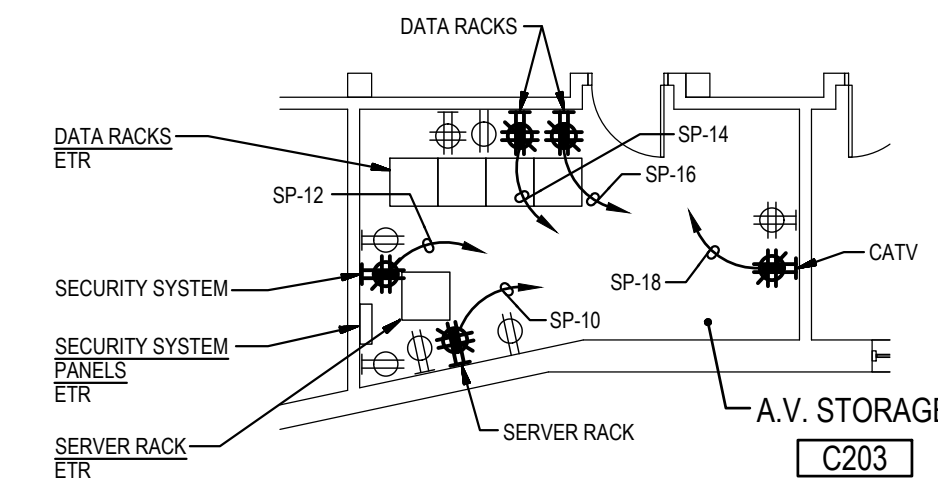
1 PART PLAN - SECOND FLOOR
E-8 DEMOLITION
SCALE: 1/8" = 1'-0"



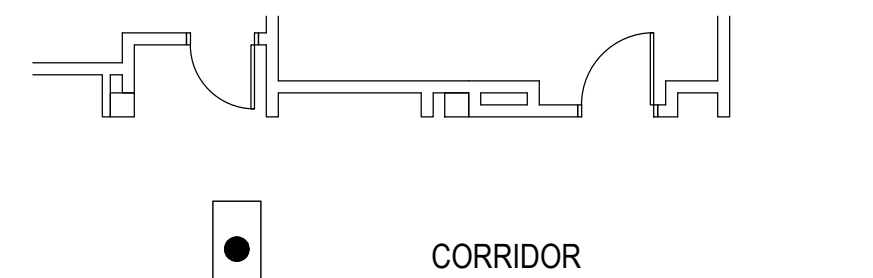
2 PART PLAN - SECOND FLOOR
E-8 NEW WORK
SCALE: 1/8" = 1'-0"



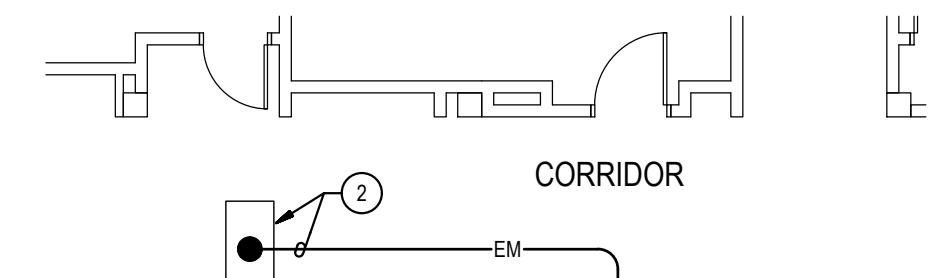
3 PART PLAN - SECOND FLOOR
E-8 DEMOLITION
SCALE: 1/8" = 1'-0"



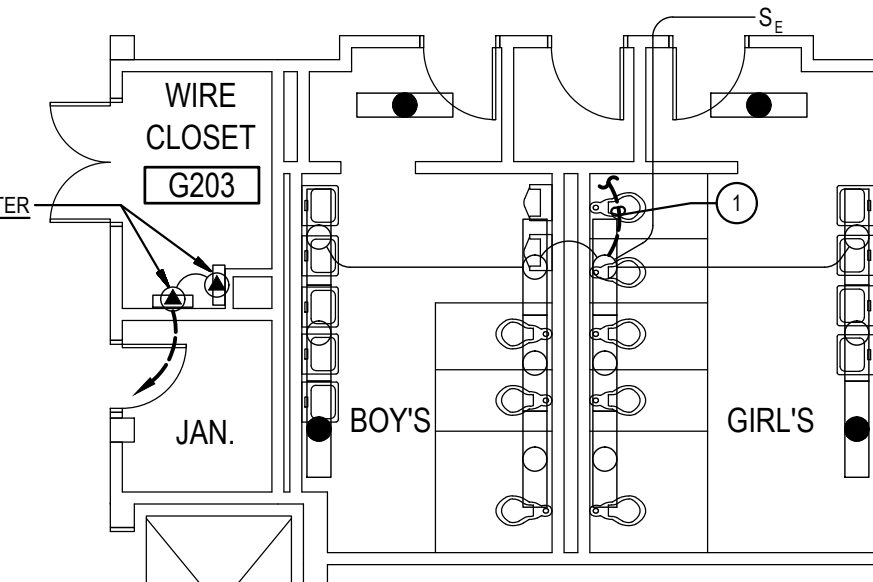
4 PART PLAN - SECOND FLOOR
E-8 NEW WORK
SCALE: 1/8" = 1'-0"



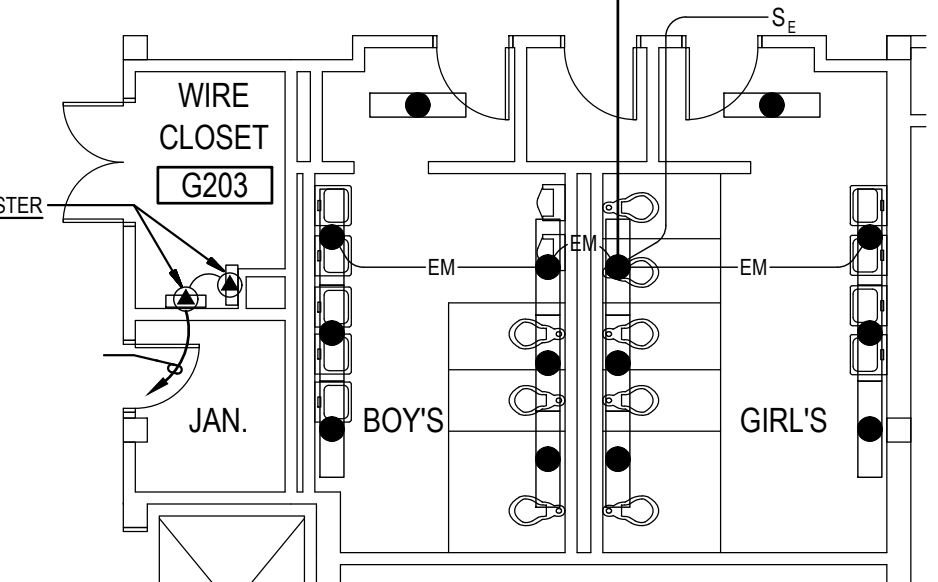
5 PART PLAN - SECOND FLOOR
E-8 DEMOLITION
SCALE: 1/8" = 1'-0"



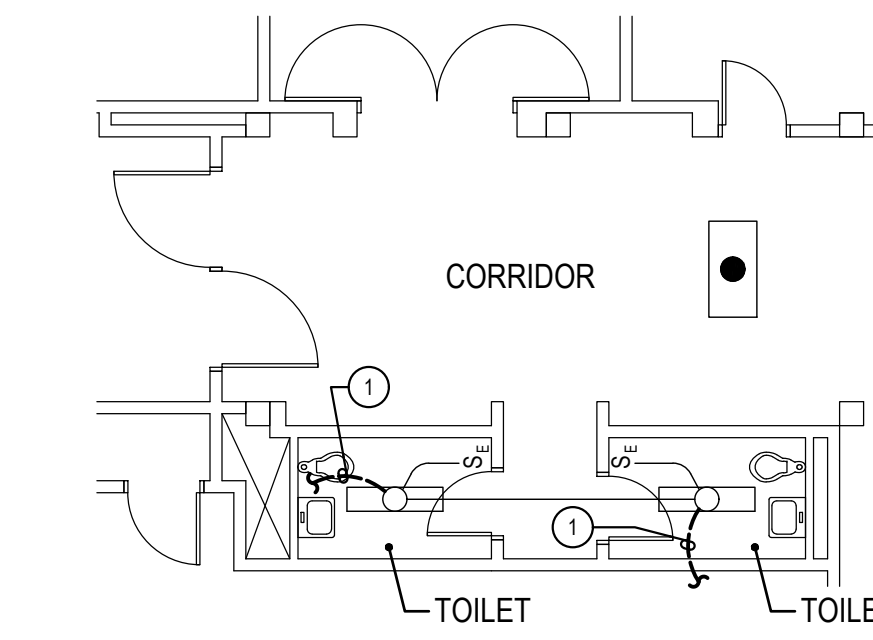
6 PART PLAN - SECOND FLOOR
E-8 NEW WORK
SCALE: 1/8" = 1'-0"



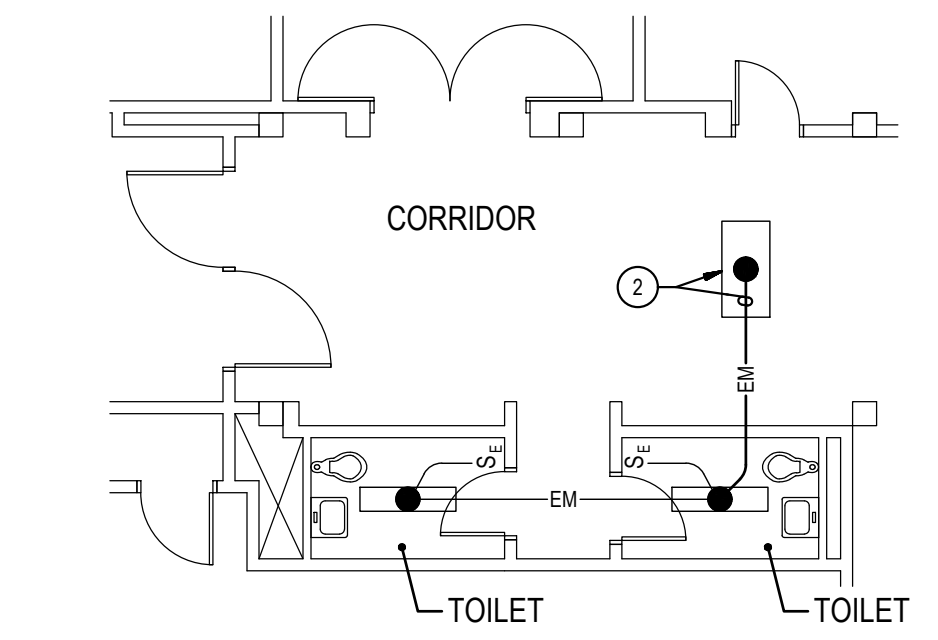
7 PART PLAN - SECOND FLOOR
E-8 DEMOLITION
SCALE: 1/8" = 1'-0"



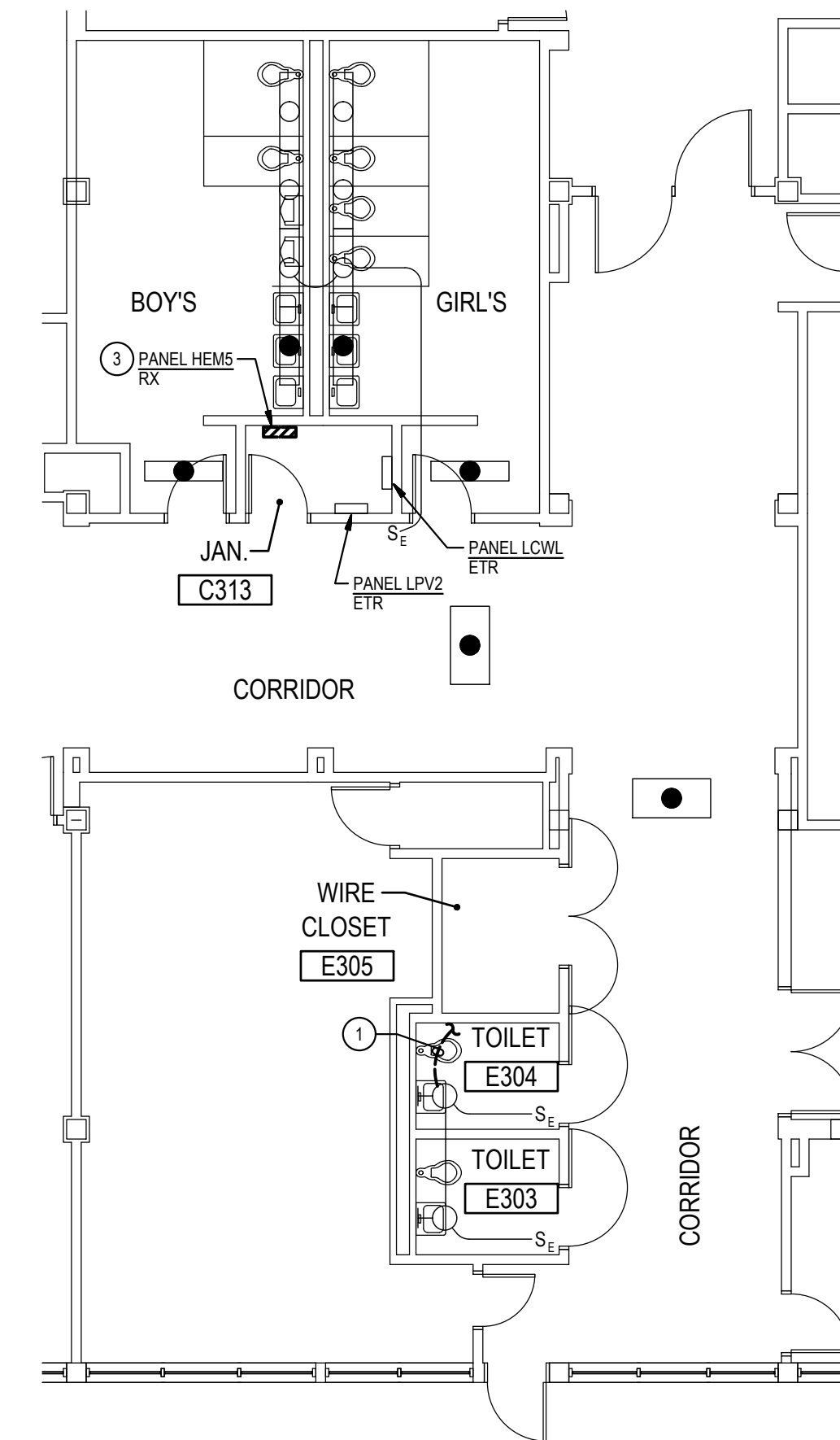
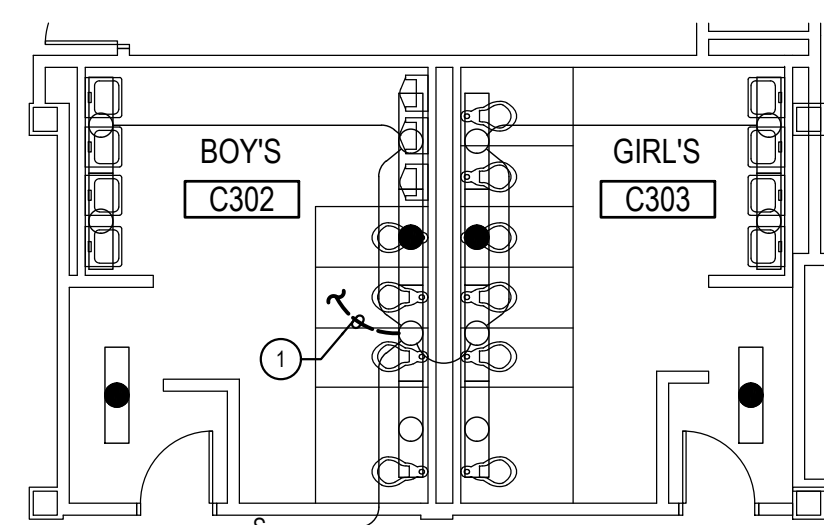
8 PART PLAN - SECOND FLOOR
E-8 NEW WORK
SCALE: 1/8" = 1'-0"



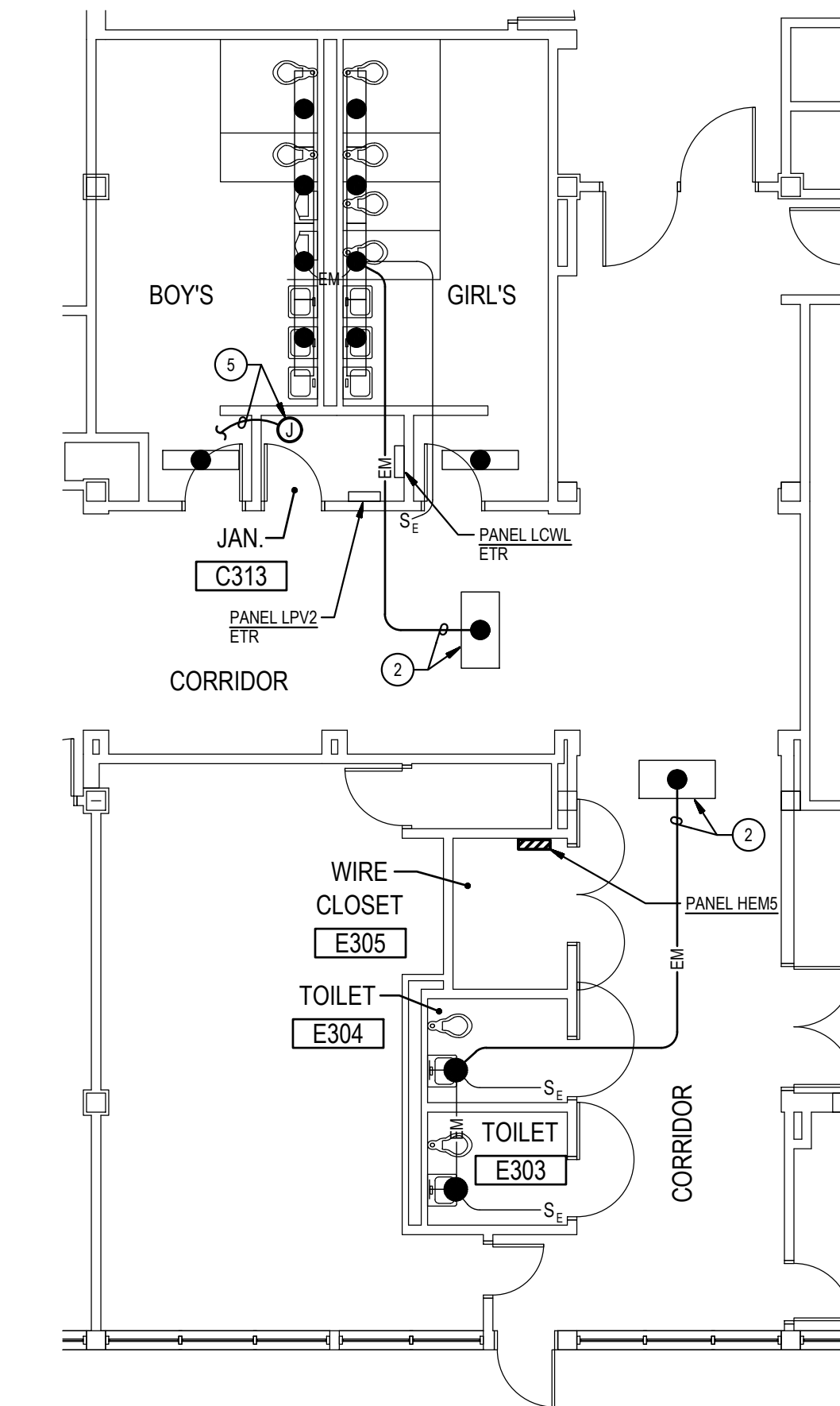
9 PART PLAN - THIRD FLOOR
E-8 DEMOLITION
SCALE: 1/8" = 1'-0"



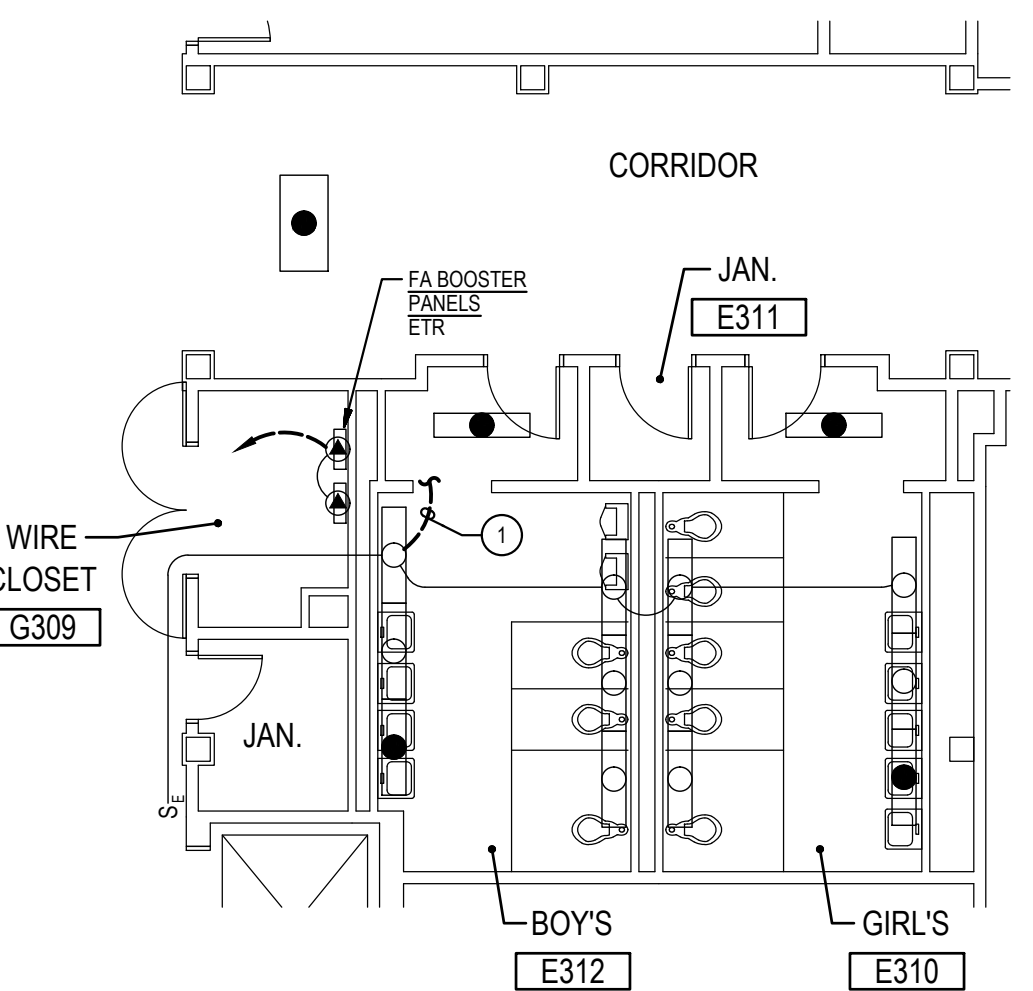
10 PART PLAN - THIRD FLOOR
E-8 NEW WORK
SCALE: 1/8" = 1'-0"



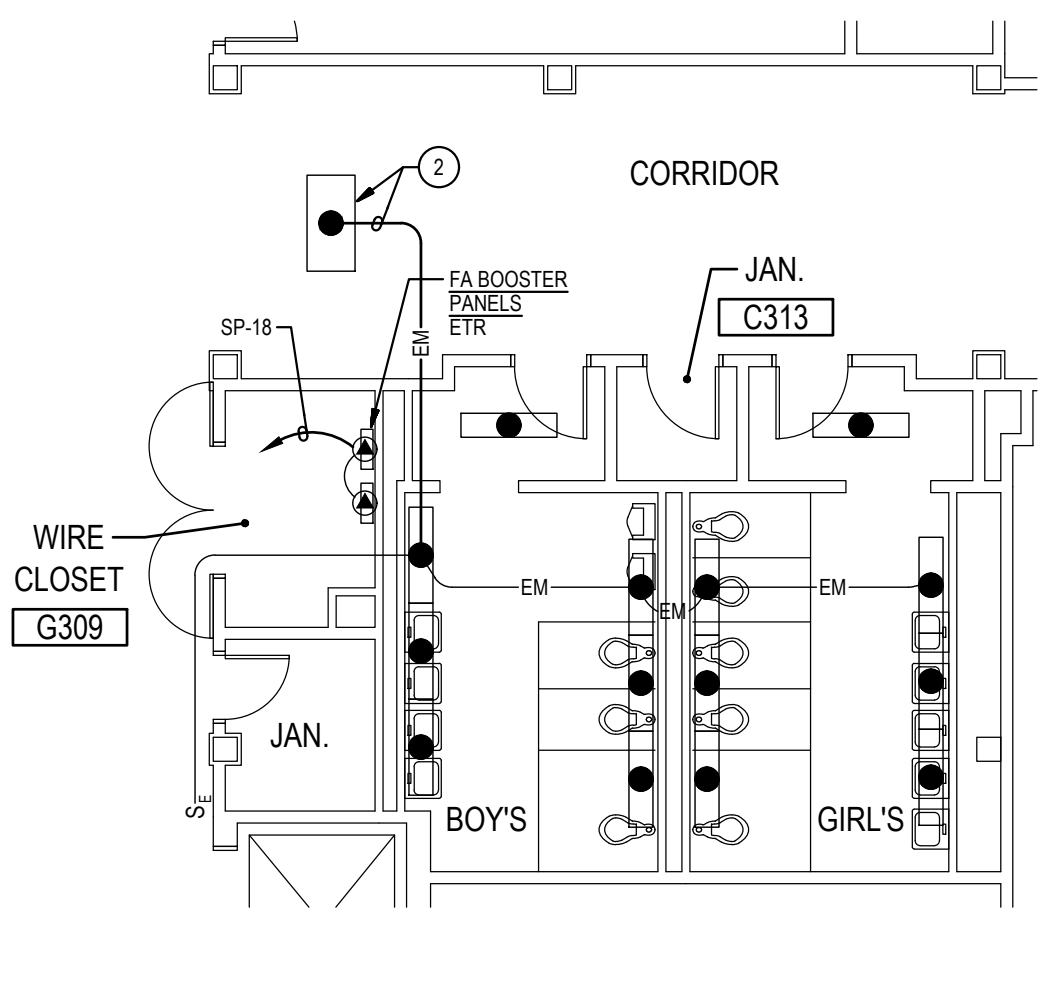
11 PART PLAN - THIRD FLOOR
E-8 DEMOLITION
SCALE: 1/8" = 1'-0"



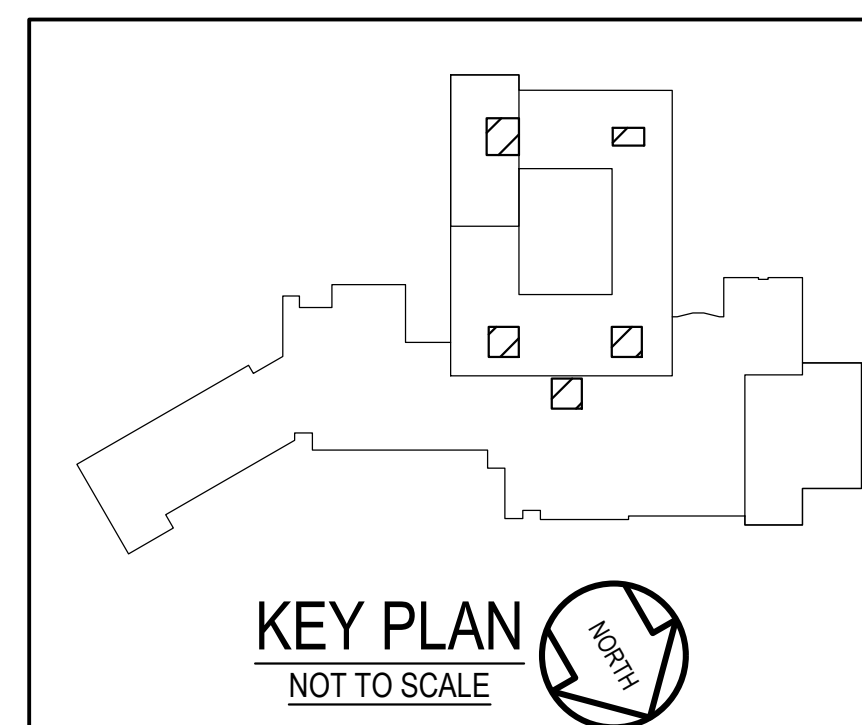
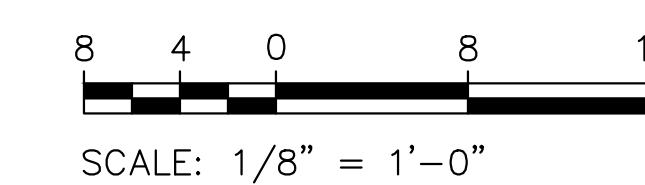
12 PART PLAN - THIRD FLOOR
E-8 NEW WORK
SCALE: 1/8" = 1'-0"



13 PART PLAN - THIRD FLOOR
E-8 DEMOLITION
SCALE: 1/8" = 1'-0"



14 PART PLAN - THIRD FLOOR
E-8 NEW WORK
SCALE: 1/8" = 1'-0"



GENERAL NOTES:

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- 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.

GENERAL NOTES (CONTINUED):

- 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. DISCONNECT AND REMOVE EXISTING WIRING IN CONDUIT SERVING EXISTING LIGHTING FIXTURE(S).
- 2. PROVIDE #12-#12G IN 3/4" CONDUIT AND CONNECT TO NEAREST EXISTING UNSWITCHED EMERGENCY LIGHTING CIRCUIT.
- 3. REMOVE PORTION OF EXISTING CONDUIT AND WIRING BACK TO ACCESSIBLE CEILING SPACE FOR SP-LINKING TO NEW PANEL. REFER TO NEW WORK PART PLAN FOR ADDITIONAL INFORMATION.
- 4. EXTEND EXISTING LIGHTING CIRCUITS TO NEW PANEL. REFER TO PANEL SCHEDULE ON DRAWING E-10 FOR ADDITIONAL INFORMATION.
- 5. EXTEND EXISTING LIGHTING CIRCUITS TO NEW PANEL. REFER TO PANEL SCHEDULE ON DRAWING E-10 FOR ADDITIONAL INFORMATION.

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT
SPRINGBROOK HIGH SCHOOL
201 VALLEY BROOK DRIVE
SILVER SPRING, MD 20904
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: 02-24-2024.

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Tag	Description	Date
	BID SET	06/20/23

PSC No.	
Scale	AS NOTED
Project No.	7753-22
Date	JUNE 20, 2023

Drawing Title
PART FLOOR PLANS DEMOLITION AND NEW WORK

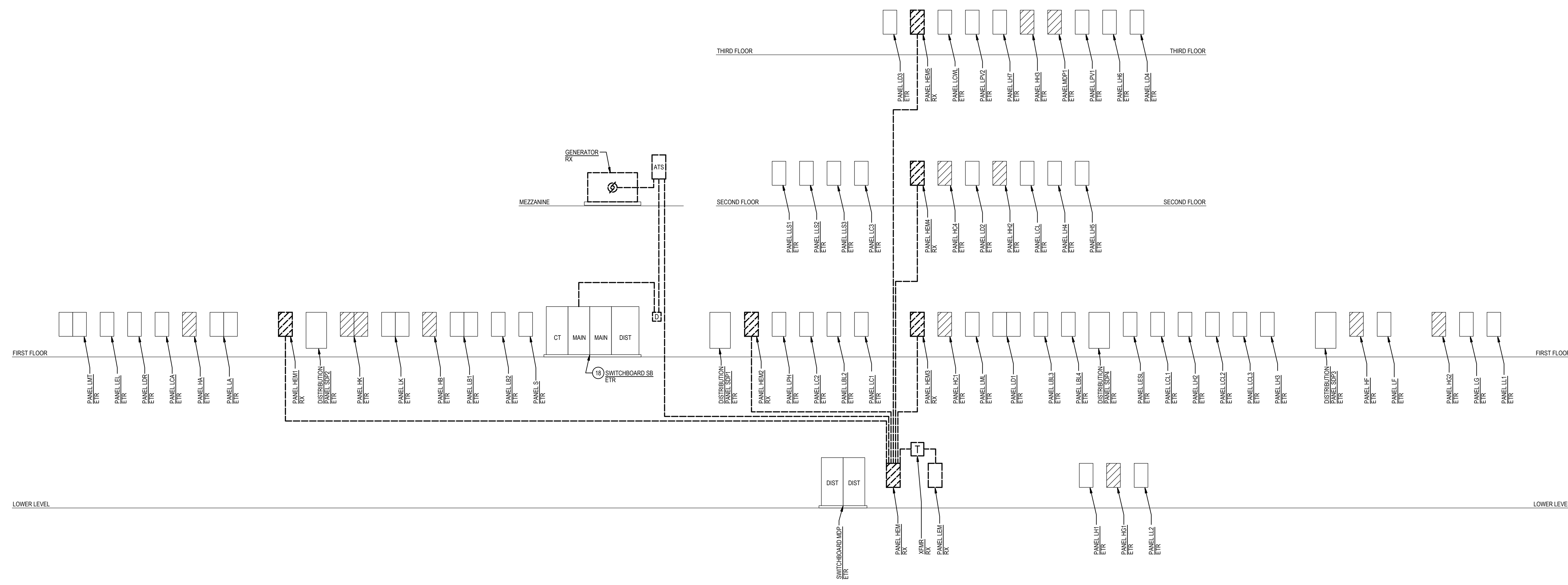
Sheet No:
E-8

GENERAL NOTES:

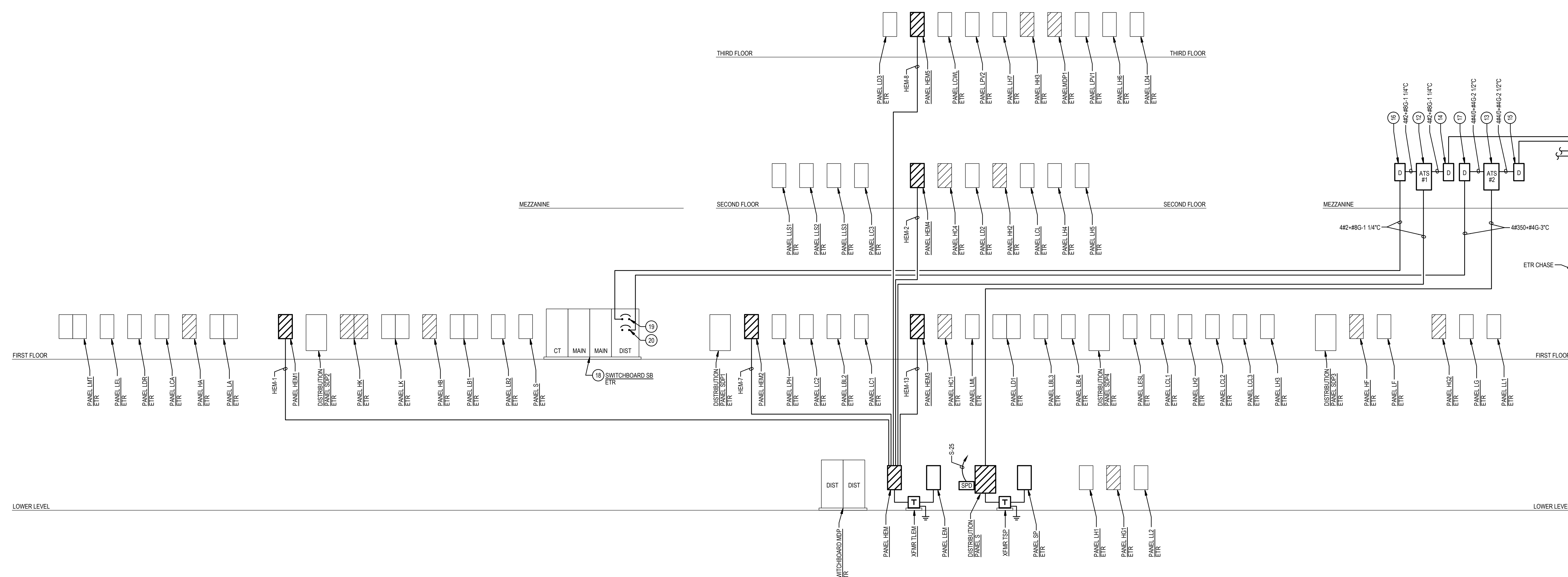
- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD 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 TO NEW LOCATION AS REQUIRED.
- 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 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.
- 2 PROVIDE GENERATOR CONCRETE PAD. REFER TO DETAIL 1E-0 FOR ADDITIONAL INFORMATION.
- 3 REFER TO DIAGRAM 3E-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 MANUFACTURERS RECOMMENDATIONS.
- 5 PROVIDE WIRING IN CONDUIT FROM GENERATOR CONTROL PANEL TO GENERATOR REMOTE ALARM INDICATOR PANEL. WIRING SHALL BE AS PER GENERATOR MANUFACTURERS RECOMMENDATIONS.
- 6 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.
- 7 PROVIDE 3P-300A CIRCUIT BREAKER TO SERVE GENERATOR STANDBY LOADS. MOUNT CIRCUIT BREAKER WITHIN GENERATOR ENCLOSURE AND MAKE CONNECTIONS. COORDINATE LOCATION OF CIRCUIT BREAKER WITH GENERATOR MANUFACTURER.
- 8 PROVIDE 4 #00 + #3 GROUND IN 3" CONDUIT BETWEEN 3P-400A ELECTRONIC TRIP CIRCUIT BREAKER AT GENERATOR SERVING EMERGENCY LIFE SAFETY LOADS AND GENERATOR DOCKING STATION, SIZED FOR LOAD BANK CONNECTION.
- 9 PROVIDE 400A GENERATOR DOCKING STATION IN NEMA TYPE 3R ENCLOSURE, EQUAL TO TRISTAR DEVS-5 WITH 3P-100A CIRCUIT BREAKERS, KIRK KEY INTERLOCKED. FOR CONNECTIONS TO ATS-1 AND PORTABLE MOBILE GENERATOR, FEEDERS FOR LOAD BANK CONNECTION SHALL BE SIZED FOR 400A. PROVIDE SIGN ON FRONT OF GENERATOR DOCKING STATION TO READ AS FOLLOWS: SERVING EMERGENCY TRANSFER SWITCH (ATS-1) IN MEZZANINE ABOVE WEIGHT LIFTING ROOM, Z77480V, 3-PHASE, 4-WIRE.
- 10 PROVIDE 4 #2 + #8 GROUND IN 1 1/4" CONDUIT.
- 11 PROVIDE 4 #30 + #4 GROUND IN 3" CONDUIT.
- 12 PROVIDE 4P-100A AUTOMATIC TRANSFER SWITCH (ATS) TO SERVE EMERGENCY LIFE SAFETY LOADS. ATS SHALL HAVE A MINIMUM UL 1008 WITHSTAND AND CLOSING RATING OF 65K AIC. PROVIDE NAMEPLATE ON FRONT OF ATS TO READ "EMERGENCY ATS".
- 13 PROVIDE 4P-300A AUTOMATIC TRANSFER SWITCH (ATS) TO SERVE STANDBY LOADS. ATS SHALL HAVE A MINIMUM UL 1008 WITHSTAND AND CLOSING RATING OF 65K AIC. PROVIDE NAMEPLATE ON FRONT OF ATS TO READ "STANDBY ATS".
- 14 PROVIDE 3P-100A-600V NON-FUSED ENCLOSED SWITCH WITH NEUTRAL KIT IN NEMA TYPE 1 ENCLOSURE TO SERVE GENERATOR EMERGENCY LIFE SAFETY LOADS.
- 15 PROVIDE 3P-400A-600V NON-FUSED ENCLOSED SWITCH WITH NEUTRAL KIT IN NEMA TYPE 1 ENCLOSURE TO SERVE GENERATOR STANDBY LOADS.
- 16 PROVIDE 3P-100A-600V FUSED ENCLOSED SWITCH WITH NEUTRAL KIT IN NEMA TYPE 1 ENCLOSURE. PROVIDE WITH 100A CURRENT LIMITING FUSES.
- 17 PROVIDE 3P-400A-600V FUSED ENCLOSED SWITCH WITH NEUTRAL KIT IN NEMA TYPE 1 ENCLOSURE. PROVIDE WITH 300A CURRENT LIMITING FUSES.
- 18 EXISTING SWITCHBOARD SB IS BY SQUARE D, GED POWER STYLE SWITCHBOARD, RATED AT Z77480 VOLT, 3-PHASE, 4-WIRE WITH 3000A BUS, 1000A MAIN SERVICE BOLTED PRESSURE SWITCH, AND 3000A MAIN SERVICE BOX TIED PRESSURE SWITCH.
- 19 PROVIDE 3P-100A CIRCUIT BREAKER IN AVAILABLE SPACE IN EXISTING SWITCHBOARD SN. TYPE AND AIC RATING OF CIRCUIT BREAKER TO MATCH EXISTING.
- 20 PROVIDE 3P-300A CIRCUIT BREAKER IN AVAILABLE SPACE IN EXISTING SWITCHBOARD SN. TYPE AND AIC RATING OF CIRCUIT BREAKER TO MATCH EXISTING.

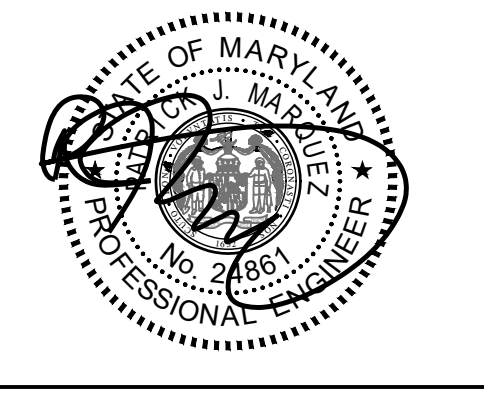


1 POWER RISER DIAGRAM
E-9
DEMOLITION
NOT TO SCALE



2 POWER RISER DIAGRAM
E-9
NEW WORK
NOT TO SCALE

GENERATOR AND ELECTRICAL EQUIPMENT REPLACEMENT
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POWER RISER DIAGRAMS

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E-9

