PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

PAWLING ELEMENTARY SCHOOL - 7 HAIGHT STREET, PAWLING, NY 12564

ISSUED FOR BID: 11/1/2023

CSARCH - ARCHITECTS & M.E.P. ENGINEERS

HYMAN HATES ASSOCIATES - STRUCTURAL ENGINEERS

THE LA GROUP - CIVIL ENGINEERS

STATE EDUCATION DEPARTMENT PROJECT CONTROL NUMBER:
PAWLING ELEMENTARY SCHOOL: 13-12-01-04-0-001-024

THE DESIGN OF THIS PROJECT CONFORMS TO APPLICABLE PROVISIONS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, AND THE MANUAL OF PLANNING STANDARDS OF THE NEW YORK STATE EDUCATION DEPARTMENT.

CSArch PROJECT NO. 208-2101.03



PAWLING ELEMENTARY SCHOOL

VICINITY MAP NTS

DRAWING LIST

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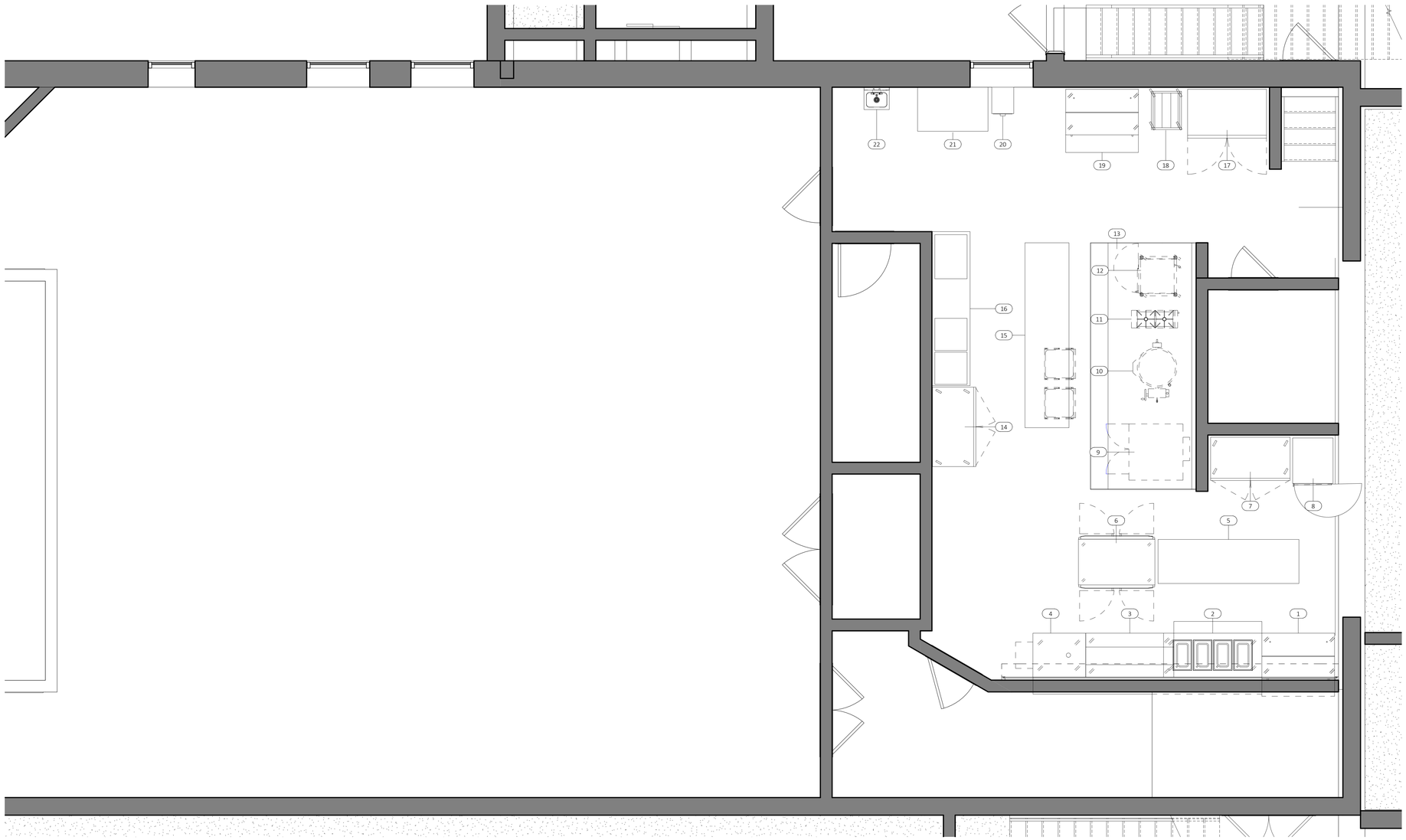
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VOLUME 2 OF 2



1 EXISTING KITCHEN PLAN
3/8" = 1'-0"

Food Service Existing Equipment Schedule			
Item No.	Qty.	Equipment Category	Equipment Remarks
1	1	Milk Cooler	Salvage
2	1	SERVING COUNTER, HOT FOOD	Remove
3	1	SERVING COUNTER, UTILITY	Remove
4	1	SERVING COUNTER, CASHIER	Remove
5	1	WORKTABLE	Salvage
6	1	REFRIGERATOR, PASS-THRU	Salvage
7	1	REFRIGERATOR, REACH-IN	Salvage
8	1	HOLDING CABINET	Salvage
9	1	CONVECTION OVEN	Existing/Relocate
10	1	KETTLE	Remove
11	1	RANGE	Remove
12	1	STEAMER	Existing/Relocate
13	1	EXHAUST HOOD	Remove
14	1	REACH-IN FREEZER	Salvage
15	1	WORKTABLE	Salvage
16	1	Three Compartment Sink	Salvage
17	1	FREEZER, REACH-IN	Salvage
18	1	PAN RACK	Salvage
19	1	Milk Cooler	Salvage
20	1	FILING CABINET	Salvage
21	1	DESK	Salvage
22	1	HAND SINK	Remove

RELOCATE,SALVAGE OR REMOVE ALL EXISTING FOODSERVICE EQUIPMENT

"RELOCATE" = RELOCATE EQUIPMENT PER THE PLANS AND SPECIFICATIONS

"SALVAGE" = TURN OVER THE EQUIPMENT TO THE OWNER AND DELIVER TO DESIGNATED LOCATION

"REMOVE" = REMOVE AND DISPOSE OF THE EQUIPMENT

NOTE FS DRAWINGS WILL BE:
KITCHEN/CAFETERIA ADD
ALTERNATE #3

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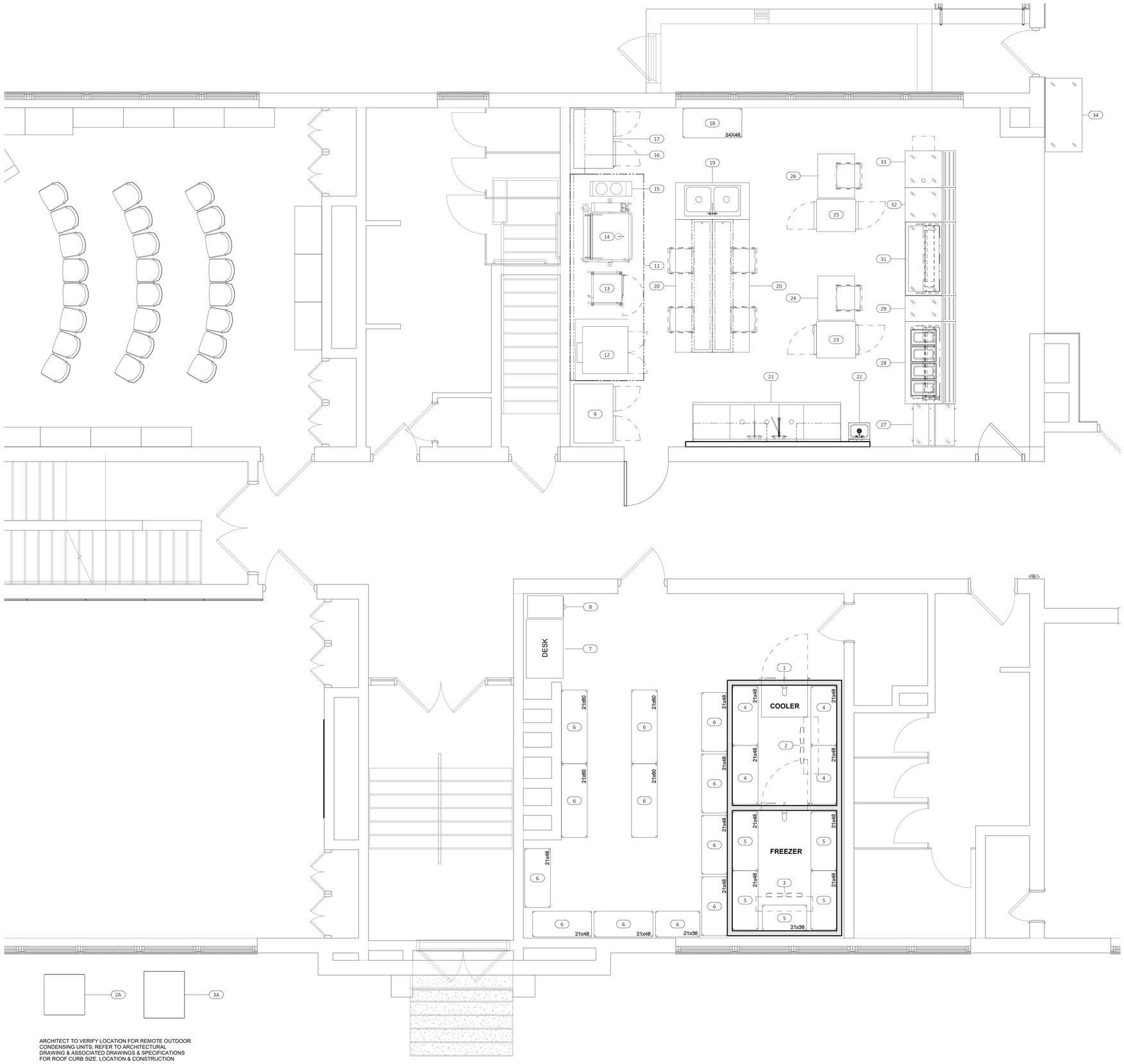
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Sheet Title
EXISTING PLAN

Sheet No.
PES FS101

CONSTRUCTION DOCUMENTS



Food Service Equipment Schedule			
Item No.	Qty.	Equipment Category	Equipment Remarks
1	1	WALK-IN COOLER/FREEZER	NEW
2	1	WALK-IN COOLER REFRIGERATION	NEW
2A	1	WALK-IN COOLER CONDENSER	NEW
3	1	WALK-IN FREEZER REFRIGERATION	NEW
3A	1	WALK-IN FREEZER CONDENSER	NEW
4	4	WALK-IN COOLER SHELVING	NEW
5	5	WALK-IN FREEZER SHELVING	NEW
6	12	DRY STORAGE SHELVING	NEW
7	1	DESK	BY OWNER
8	1	FILING CABINET	BY OWNER
9	1	REACH-IN FREEZER	NEW
10	1	SPARE NUMBER	SPARE
11	1	EXHAUST HOOD	NEW
12	1	CONVECTION OVEN	EXISTING/RELOCATE
13	1	STEAMER	EXISTING/RELOCATE
14	1	TILT SKILLET	NEW
15	1	RANGE	NEW
16	1	FIRE SUPPRESSION SYSTEM	NEW
17	1	REACH-IN REFRIGERATOR	NEW
18	1	DRY STORAGE SHELVING	NEW
19	1	PREP TABLE	NEW
20	2	WORKTABLE	NEW
21	1	THREE COMPARTMENT SINK	NEW
22	1	HAND SINK	NEW
23	1	PASS-THRU HEATED CABINET	NEW
24	1	WORKTABLE	NEW
25	1	PASS-THRU REFRIGERATOR	NEW
26	1	WORKTABLE	NEW
27	1	MILK COOLER	NEW
28	1	HOT FOOD STATION	NEW
29	1	SERVING COUNTER, UTILITY	NEW
30	1	SPARE NUMBER	SPARE
31	1	SERVING COUNTER, FROST TOP	NEW
32	1	SERVING COUNTER, UTILITY	NEW
33	1	SERVING COUNTER, CASHIER	NEW
34	1	CONDIMENT COUNTER	NEW

ARCHITECT TO VERIFY LOCATION FOR REMOTE OUTDOOR CONDENSING UNITS; REFER TO ARCHITECTURAL DRAWING & ASSOCIATED DRAWINGS & SPECIFICATIONS FOR ROOF CURB SIZE, LOCATION & CONSTRUCTION

1 NEW KITCHEN
3/8" = 1'-0"

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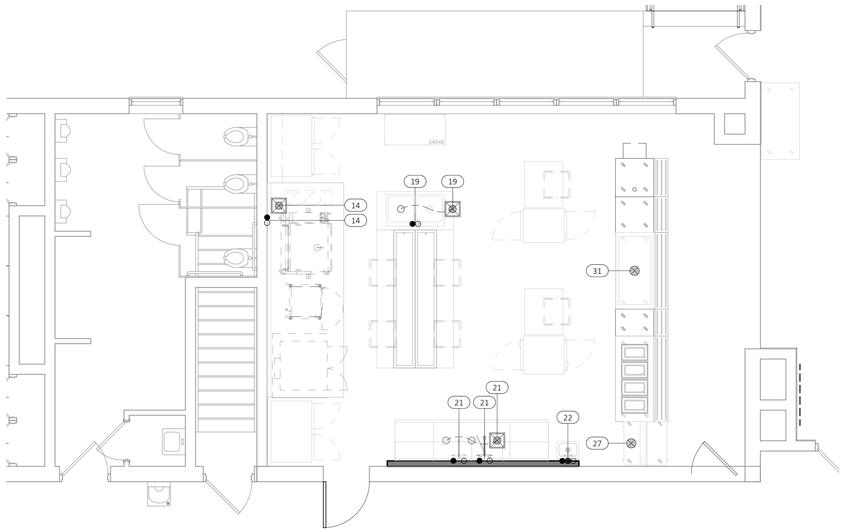
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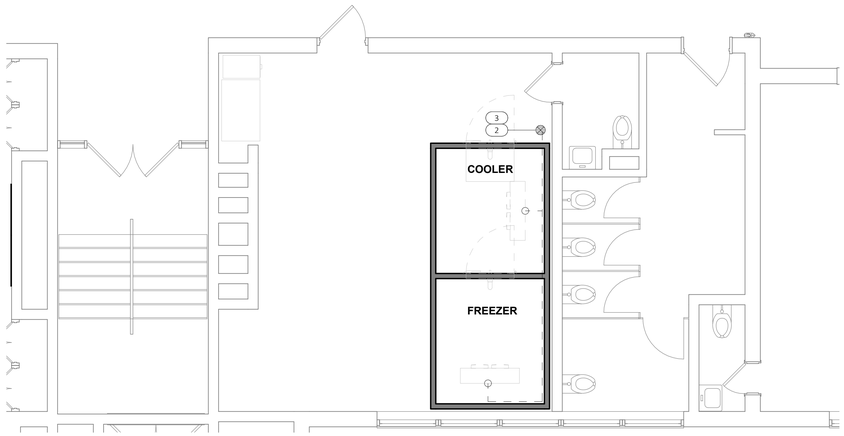
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Sheet Title
KITCHEN PLAN

Sheet No.
PES
FS102

CONSTRUCTION DOCUMENTS





1 PLUMBING PLAN
1/4" = 1'-0"

PLUMBING LEGEND

ABBR.	DESCRIPTION	SYMBOL
CW	COLD WATER	●
HW	HOT WATER	○
W	DIRECT WASTE	●
IW	INDIRECT WASTE	○
FD	FLOOR DRAIN	⊗
FS	FLOOR SINK	⊠
	GAS CONNECTION LP/NG	
	EXHAUST	
	SUPPLY	
	STEAM	
ACH	ABOVE COUNTER HEIGHT	
AFF	ABOVE FINISHED FLOOR	
BFF	BELOW FINISHED FLOOR	
MBTUH	THOUSAND BTU PER HOUR	

PLUMBING NOTES

1. ALL CONNECTIONS SHOWN ARE RELATIVE TO FOOD SERVICE EQUIPMENT ONLY.
2. GENERAL WATER PRESSURE IN KITCHEN AREA NOT TO EXCEED 50 PSI.
3. PLUMBING CONTRACTOR SHALL PROVIDE ALL ROUGH-IN AND FINAL CONNECTIONS TO ALL FOOD SERVICE EQUIPMENT.
4. F.S.E.C. TO SUPPLY AND INSTALL ALL FIXTURES AND FAUCETS AS SPECIFIED IN EQUIPMENT SPECIFICATIONS. PLUMBING CONTRACTOR SHALL CONNECT ALL PLUMBING COMPONENTS TO MAKE FINAL CONNECTIONS.
5. FAUCETS, WATER FILTERS, GATE VALVES, WATER HAMMER ARRESTORS, BACK FLOW PREVENTORS, PRESSURE REDUCING VALVES, AND ANY OTHER SPECIFIED PLUMBING COMPONENTS, WILL BE MOUNTED AND INSTALLED BY THE PLUMBING CONTRACTOR.
6. DO NOT RUN ANY EXPOSED LINES WHERE POSSIBLE.
7. PLUMBING CONTRACTOR TO FURNISH AND INSTALL GAS SHUT OFF VALVES AS REQUIRED AT POINT OF CONNECTION WITH EQUIPMENT.
8. GENERAL GAS PRESSURE IN KITCHEN TO BE VERIFIED BY THE PLUMBING CONTRACTOR. VERIFY PRESSURE WITH F.S.E.C. TO RELATED EQUIPMENT.
9. PLUMBING CONTRACTOR IS REQUIRED TO MOUNT AND INSTALL ALL GAS REGULATORS, GAS PRESSURE REDUCING VALVES, AND GAS HOSES SUPPLIED BY THE F.S.E.C. UNLESS OTHERWISE NOTED.
10. PLUMBING CONTRACTOR TO VERIFY THAT ALL FLOOR SINKS, FLOOR DRAINS, AND WASTES CONFORM TO LOCAL CODES.
11. DIRECT ALL INDIRECT WASTE TO FLOOR SINKS OR DRAINS AS REQUIRED BY LOCAL CODES.
12. THE F.S.E.C. SHALL PROVIDE PRE-ASSEMBLED REMOTE REFRIGERATION COMPONENTS AS REQUIRED BY THE EQUIPMENT SPECIFICATIONS. F.S.E.C. TO INSTALL CONNECT, CHARGE REFRIGERATION LINES AND SYSTEMS, AND RUN AND TEST SYSTEMS FOR PROPER OPERATION.
13. F.S.E.C. TO PROVIDE AND INSTALL DRAIN LINES FROM EVAPORATOR TO FLOOR DRAIN PROVIDED BY PLUMBING CONTRACTOR.
14. PLUMBING CONTRACTOR TO INSTALL GAS SHUT OFF VALVE FOR FIRE SUPPRESSION SYSTEM PROVIDED BY F.S.E.C.

*REFER TO ARCHITECT'S PLUMBING DRAWINGS FOR ADDITIONAL BUILDING PLUMBING REQUIREMENTS.

Food Service Plumbing Schedule

ITEM NO.	QTY.	EQUIPMENT CATEGORY	HW SIZE	CW SIZE	WATER AFF	DW SIZE	DW AFF	IW SIZE	PLUMBING REMARKS
2	1	WALK-IN COOLER REFRIGERATION						3/4"	IW TO FLOOR DRAIN
3	1	WALK-IN FREEZER REFRIGERATION						3/4"	IW TO FLOOR DRAIN
14	1	TILT SKILLET	1/2"	1/2"	36"			2"	4" O.C. ; IW TO FLOOR SINK
19	1	PREP TABLE	1/2"	1/2"	4"			2"	4" O.C. STUBBED UP; IW TO FLOOR SINK
21	1	THREE COMPARTMENT SINK	1/2"	1/2"	15"			2"	(2) 8" O.C. HW,CW ; IW TO FLOOR SINK
22	1	HAND SINK	1/2"	1/2"	27"	1 1/2"	24"		4" OC
27	1	MILK COOLER						3/4"	IW TO FLOOR DRAIN
31	1	SERVING COUNTER, FROST TOP						3/4"	IW TO FLOOR DRAIN

VERIFICATION NOTE

1. ALL UTILITY INFORMATION SHOWN ON THESE DRAWINGS ARE DEEMED TO BE ACCURATE AT THE TIME OF CREATION.
2. EQUIPMENT MANUFACTURER'S RESERVE THE RIGHT TO CHANGE OR UPDATE THE EQUIPMENT REQUIREMENTS. THE CONSULTANT AND/OR ARCHITECT ARE NOT RESPONSIBLE FOR ANY OF THESE CHANGES.
3. THE FOOD SERVICE EQUIPMENT CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS AND UTILITY INFORMATION PRIOR TO ORDERING AND INSTALLATION. THIS CONTRACTOR IS TO PROVIDE ALL TRADES WITH THE MOST CURRENT INFORMATION AT ALL TIMES.

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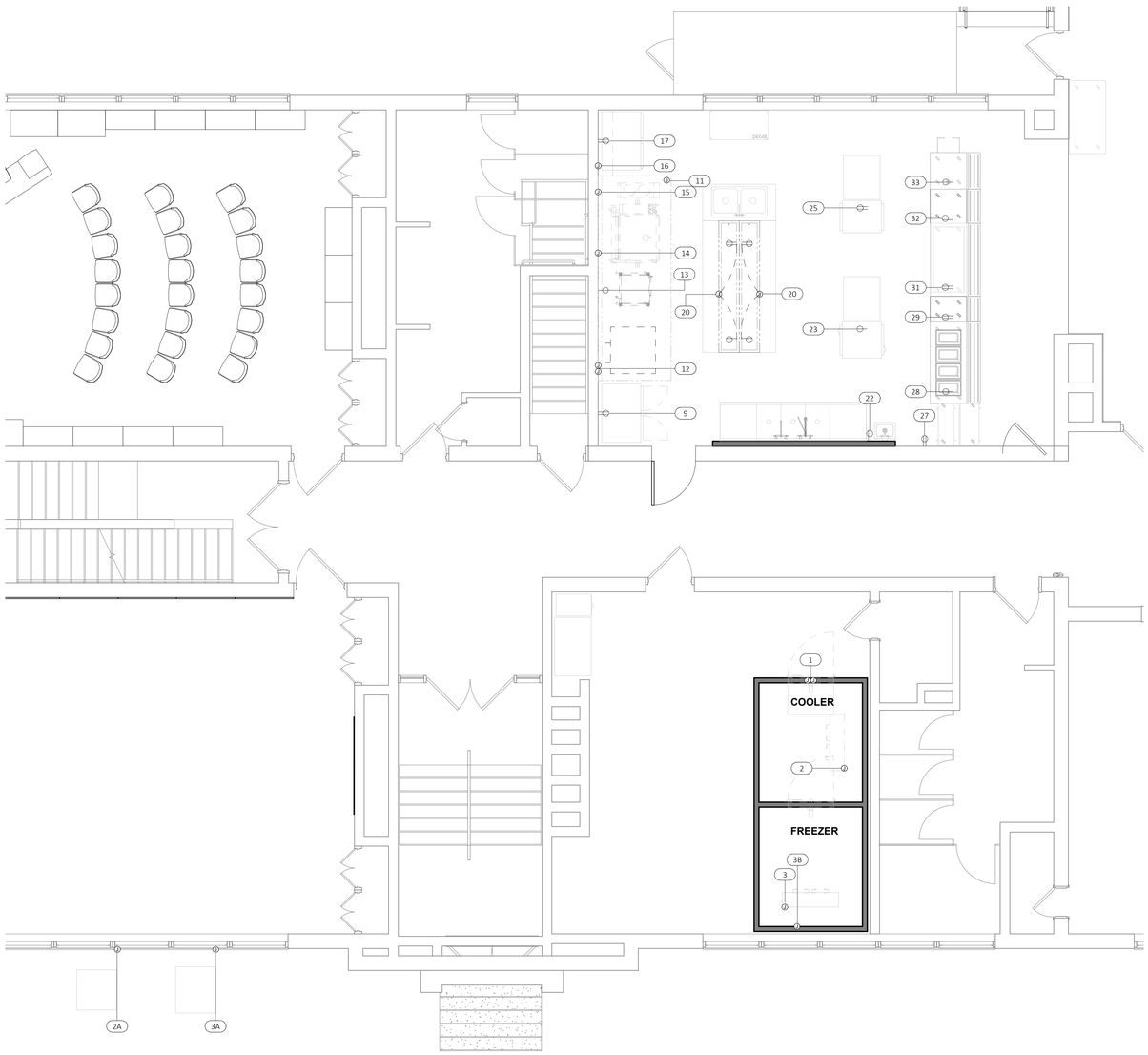
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Sheet Title
KITCHEN PLUMBING PLAN

Sheet No.
PES FS103

CONSTRUCTION DOCUMENTS



1 ELECTRICAL PLAN
1/4" = 1'-0"

ELECTRICAL LEGEND

ABBR.	DESCRIPTION	SYMBOL
DIRECT	ELECTRICAL CONNECTION	
DR	DUPLEX RECEPTACLE	
SR1	SINGLE RECEPTACLE (120V)	
SR2	SINGLE RECEPTACLE (208V)	
	FIRE SUPPRESSION PULL BOX	
JB	JUNCTION BOX	
SW	SWITCH	
E	UDS ELECTRICAL	
FS	UDS FIRE FUEL SHUT-OFF	
F	HOOD FAN CONTROL	
L	HOOD LIGHT CONTROL	
POS	CAT5 DATA CABLE	
V	VOLTAGE	
KW	KILOWATTS	
HP	HORSEPOWER	
A	AMPERE	
AFF	ABOVE FINISHED FLOOR	
DFA	DOWN FROM ABOVE	

ELECTRICAL NOTES

1. ALL CONNECTIONS SHOW RELATIVE TO FOOD SERVICE EQUIPMENT ONLY.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ROUGH-IN AND FINAL CONNECTIONS TO ALL FOOD SERVICE EQUIPMENT.
3. ELECTRICAL CONTRACTOR TO BRANCH CONNECTIONS AS REQUIRED.
4. F.S.E.C. TO SUPPLY ALL FIXTURES AND COMPONENTS SPECIFIED IN EQUIPMENT SPECIFICATIONS. ELECTRICAL CONTRACTOR SHALL INSTALL AND CONNECT ALL ELECTRICAL COMPONENTS TO MAKE FINAL CONNECTIONS UNLESS OTHERWISE NOTED.
5. SWITCHES, STARTERS, LOCK-OUT DEVICES, DISCONNECTS, AND ANY OTHER REQUIRED ELECTRICAL COMPONENTS, WILL BE MOUNTED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AND SHALL MEET ALL O.S.H.A. AND CODE REQUIREMENTS.
6. DO NOT RUN ANY EXPOSED LINES WHERE POSSIBLE.
7. ALL MAIN BREAKER PANELS, DISCONNECT SWITCHES, RECEPTACLES, AND RECEPTACLE COVER PLATES ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
8. ELECTRICAL CONTRACTOR IS TO PROVIDE AND PERFORM WIRING BETWEEN THE FIRE SUPPRESSION SYSTEM, MICRO-SWITCHES, COOKING EQUIPMENT, AND BUILDING'S FIRE ALARM SYSTEM. SHUNT TRIP CIRCUITRY WILL BE REQUIRED TO SHUT DOWN COOK LINE IF AN EMERGENCY.
9. F.S.E.C. IS TO PROVIDE AND INSTALL ALL DRAIN LINE HEATER CABLE ON WALK-IN FREEZER DRAIN LINES.
10. F.S.E.C. IS RESPONSIBLE TO INSTALL AND MAKE ELECTRICAL CONNECTIONS FOR ANY ADDITIONAL LIGHTING, TIME CLOCKS, OR OTHER ELECTRICAL ACCESSORIES SPECIFIED FOR THE WALK-IN UNITS.
11. ELECTRICAL CONTRACTOR TO PROVIDE ELECTRICAL SERVICE FOR THE WALK-IN DOOR HEATERS, LIGHTS, EVAPORATORS AND CONDENSERS, AND PROVIDE ELECTRICAL DISCONNECTS AT CONDENSERS.
12. THE F.S.E.C. SHALL PROVIDE PRE-ASSEMBLED REMOTE REFRIGERATION COMPONENTS AS REQUIRED BY THE EQUIPMENT SPECIFICATIONS. F.S.E.C. TO INSTALL, CONNECT, CHARGE REFRIGERATION LINES AND SYSTEMS, AND RUN AND TEST FOR PROPER OPERATION.
13. VERIFY FINAL EQUIPMENT REQUIREMENTS PRIOR TO INSTALLATION. REVISIONS TO EQUIPMENT MAY AFFECT THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK OR MATERIAL REQUIREMENTS.

*REFER TO ARCHITECT'S ELECTRICAL DRAWINGS FOR ADDITIONAL BUILDING ELECTRICAL REQUIREMENTS.

Food Service Electrical Schedule

ITEM NO.	QTY.	EQUIPMENT CATEGORY	VOLTS	PHASE	AMPS	HP	CONNECTION TYPE	ELEC. AFF	ELECTRICAL REMARKS
1	1	WALK-IN COOLER/FREEZER	120	1	20.00 A		DIRECT	108"	
1A	1	POWER AIR DOOR	120	1	10.00 A		DIRECT	108"	
2	1	WALK-IN COOLER REFRIGERATION	120	1	1.00 A		DIRECT	108"	-
2A	1	WALK-IN COOLER CONDENSER	208	3	4.80 A		DIRECT	18"	
3	1	WALK-IN FREEZER REFRIGERATION	208	1	9.10 A		DIRECT	108"	-
3A	1	WALK-IN FREEZER CONDENSER	208	3	9.70 A		DIRECT	18"	
3B	1	DRAIN LINE HEATER	120	1	10.00 A		DIRECT	108"	
9	1	REACH-IN FREEZER	120	1	14.90 A	3/4	NEMA 5-20P	18"	
11	1	EXHAUST HOOD	120	1	20.00 A		DIRECT	108"	
12	1	CONVECTION OVEN	208	3	31.00 A		DIRECT	48"	(2) CONNECTIONS REQUIRED
13	1	STEAMER	208	1	29.00 A		NEMA L6-30P	48"	
14	1	TILT SKILLET	208	3	43.00 A		DIRECT	18"	
15	1	RANGE	208	3	17.30 A		DIRECT	18"	
16	1	FIRE SUPPRESSION SYSTEM	120	1	15.00 A		DIRECT	108"	
17	1	REACH-IN REFRIGERATOR	120	1	10.30 A	1/2	NEMA 5-20P	18"	
20	2	WORKTABLE	120	1	20.00 A		DIRECT	4"	JB STUBBED UP AND BRANCHED TO OUTLETS
22	1	HAND SINK	120	1	1.00 A		NEMA 5-15P	15"	
23	1	PASS-THRU HEATED CABINET	208	1	7.80 A		NEMA L14-20P	18"	120/208V REQUIRED
25	1	PASS-THRU REFRIGERATOR	120	1	7.20 A	1/3	NEMA 5-15P	18"	
27	1	MILK COOLER	120	1	3.70 A	1/2	NEMA 5-15P	18"	
28	1	HOT FOOD STATION	208	1	9.60 A		NEMA 6-20P	4"	STUB UP FROM FLOOR; 120/208V REQUIRED
29	1	SERVING COUNTER, UTILITY	120	1	16.00 A		NEMA 5-15P	4"	STUB UP FROM FLOOR
31	1	SERVING COUNTER, FROST TOP	120	1	4.90 A		NEMA 5-15P	4"	STUB UP FROM FLOOR
32	1	SERVING COUNTER, UTILITY	120	1	16.00 A		NEMA 5-15P	4"	STUB UP FROM FLOOR
33	1	SERVING COUNTER, CASHIER	120	1	30.00 A		NEMA5-50P	4"	STUB UP FROM FLOOR

VERIFICATION NOTE

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2. EQUIPMENT MANUFACTURER'S RESERVE THE RIGHT TO CHANGE OR UPDATE THE EQUIPMENT REQUIREMENTS. THE CONSULTANT AND/OR ARCHITECT ARE NOT RESPONSIBLE FOR ANY OF THESE CHANGES.
3. THE FOOD SERVICE EQUIPMENT CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS AND UTILITY INFORMATION PRIOR TO ORDERING AND INSTALLATION. THIS CONTRACTOR IS TO PROVIDE ALL TRADES WITH THE MOST CURRENT INFORMATION AT ALL TIMES.

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Project Title
PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
CAPITAL PROJECT - PHASE 3

#	DATE	DESCRIPTION

Drawn By: DL
Checked By: JW
Proj. #: 13-12-01-04-0-001-024
CSArch Proj. #: 208.2101.03
Issued for Bid: 11/01/23

Sheet Title
KITCHEN ELECTRICAL PLAN

Sheet No.
PES FS104

CONSTRUCTION DOCUMENTS

THE CADDY VENTILATOR TESTING, LISTING AND APPROVAL REFERENCES:

NATIONAL FIRE PROTECTION ASSOCIATION
IN ACCORDANCE WITH RECOMMENDATION OF NATIONAL FIRE PROTECTION ASSOCIATION'S NFPA NO. 96 "VAPOR REMOVAL FROM COOKING EQUIPMENT"

NATIONAL SANITATION FOUNDATION
STANDARD #2 - "FOOD SERVICE EQUIPMENT"

ETL, INTERTEK
TESTED UNDER STANDARD U.L. 710 "EXHAUST HOODS FOR COMMERCIAL COOKING EQUIPMENT". ETL LISTED UNDER CONTROL # 3177269

UNIFORM MECHANICAL CODE
SECTION 507 - COMMERCIAL KITCHEN HOODS AND KITCHEN VENTILATION SYSTEMS

THE BOCA NATIONAL MECHANICAL CODE
CHAPTER 5 - KITCHEN EXHAUST EQUIPMENT

STANDARD MECHANICAL CODE (SBCCI)
SECTION 504 - COMMERCIAL HOODS

UNIFORM BUILDING CODE (ICBO)

INTERNATIONAL MECHANICAL CODE (IMC)
SECTION 507 - COMMERCIAL KITCHEN HOODS
EXCLUDES CODE #507.2.1.1, CONSULT FACTORY FOR COMPLIANCE OPTIONS.

NOTE:

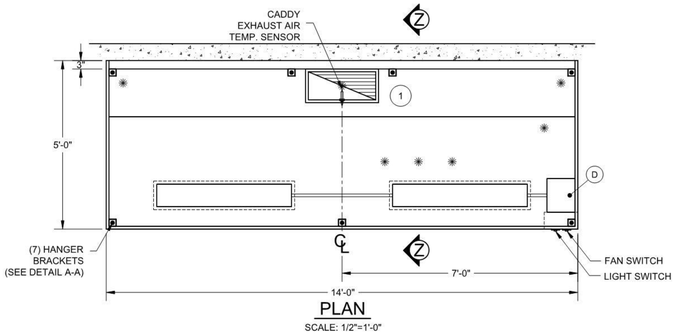
K.E.C. MUST VERIFY THE EXACT DIMENSION OF THE COOKING EQUIPMENT FROM EITHER THE WALL OR FROM THE FRONT OF THE HOOD, SO CADDY MAY PROPERLY LOCATE THE FIRE PROTECTION NOZZLES AT TIME-OF-FABRICATION IN THE FACTORY. IF EQUIPMENT IS NOT LOCATED AS SHOWN AND THE DRAWING IS APPROVED FOR FABRICATION, THEN NOZZLES MUST BE RELOCATED AT THE EXPENSE OF OTHERS.

CONTRACTOR NOTE:

ALLOW SUFFICIENT ACCESS ON TOP OF VENTILATOR TO SERVICE COMPONENTS AND UTILITIES

MAKE-UP AIR NOTE:

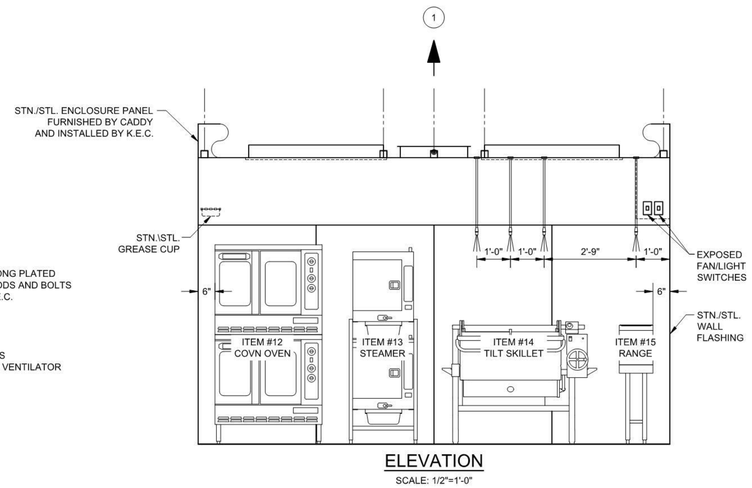
AIR TEMPERATURE SHOULD RANGE FROM 60° TO 65°F, BUT MAY BE AS LOW AS 50° F DEPENDING ON AIR VOLUME, DISTRIBUTION, AND INTERNAL HEAT LOAD



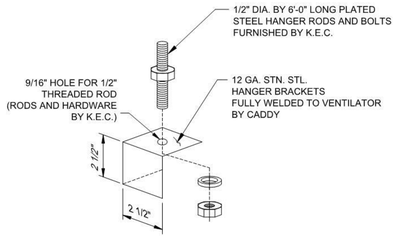
PLAN
SCALE: 1/2"=1'-0"

TOTAL EXHAUST : 2,940 C.F.M.

(1) 10" X 24" EXHAUST DUCT
2,940 C.F.M. @ 0.75" S.P.



ELEVATION
SCALE: 1/2"=1'-0"



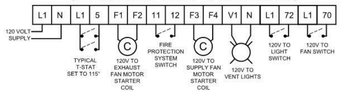
HANGER BRACKET DETAIL A-A
SCALE: 1/4"=1"

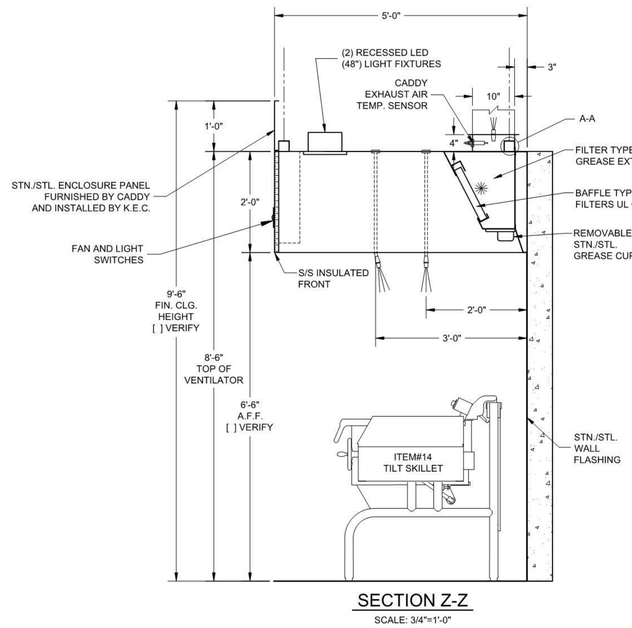
ELECTRICAL NOTES:

1. LIGHT FIXTURES, VAPORPROOF, U.L. LISTED, FURNISHED, INSTALLED AND WIRED TO CADDY FAN CONTROL PANEL (D) BY CADDY.
2. 120 VOLTS 15 AMP. A.C. SERVICE BY ELECTRICAL CONTRACTOR TO CADDY FAN CONTROL PANEL.
3. INTERCONNECTION FROM CADDY FAN CONTROL PANEL TERMINALS TO EXHAUST FAN MOTOR STARTER, SUPPLY FAN MOTOR STARTER, AND FIRE PROTECTION SYSTEM SWITCH BY ELECTRICAL CONTRACTOR.

FAN CONTROL PACKAGE

(TO BE MOUNTED ON TOP OF HOOD CANOPY)





SECTION Z-Z
SCALE: 3/4"=1'-0"

ROUGH-IN SCHEDULE

SYM	QTY	DESCRIPTION
D	1	120V, 60HZ, 1PH, 0.07 K.W. FROM CONNECTED LOAD

GENERAL NOTES

EXHAUST AIR REQUIREMENTS:
1. EXHAUST C.F.M. BASED ON 210 C.F.M. PER LINEAR FOOT.
2. EXHAUST STATIC PRESSURE IS 0.75" W.G. AT DUCT TAKE-OFF COLLAR. TOTAL DUCT STATIC MUST BE ADDED. STATIC BASED ON OPERATION AT MEAN SEA LEVEL.
3. DUCT SIZE BASED ON 1,800 F.P.M.

EXHAUST FAN REQUIREMENTS:
1. EXHAUST FAN DISCHARGE SHOULD BE VERTICAL, AWAY FROM AIR INTAKES. FAN FURNISHED BY OTHERS.
2. EXHAUST FAN MUST BE FURNISHED WITH A MAGNETIC STARTER WITH 120 VOLT HOLDING COIL. STARTER FURNISHED BY OTHERS.

MAKE-UP AIR REQUIREMENTS:
1. AIR EXHAUSTED FROM KITCHEN MUST BE REPLACED - WITH DISTRIBUTION CONTROLLED TO PROVIDE FOR TOTAL KITCHEN. VENTILATION AND TO ESTABLISH NECESSARY AIR PATTERNS FOR PROPER PERFORMANCE OF THE VENTILATORS. AIR DISTRIBUTION SYSTEMS SHALL BE IN ACCORDANCE WITH ALL GOVERNING CODES.
2. MAKE-UP AIR MUST BE TEMPERED-HEATED OR COOLED-CONSISTENT WITH THE STYLE OF HOOD, HEAT LOAD, CLIMATIC CONDITIONS AND APPLICABLE CODES.
3. FAN MUST BE FURNISHED WITH A MAGNETIC STARTER WITH 120 VOLT HOLDING COIL. STARTER FURNISHED BY OTHERS.

INSTALLATION:
1. VENTILATORS TO BE INSTALLED IN ACCORDANCE WITH ALL CODES. CONTRACTORS MUST REVIEW APPLICABLE CODES WITH CODE AUTHORITIES BEFORE APPROVING DRAWINGS FOR FABRICATION. SPECIAL ATTENTION MUST BE GIVEN TO CODE REGULATIONS RELATIVE TO CLEARANCES FROM SURROUNDING COMBUSTIBLE CONSTRUCTION (WALL, CEILINGS, ETC.).
2. VENTILATORS ARE NOT TO BE INSTALLED IN AREAS MEANT TO HANDLE ENVIRONMENTAL AIR.
3. ALL DUCTWORK BEYOND VENTILATOR DUCT TAKE-OFF COLLAR TO BE PROVIDED AND INSTALLED BY OTHERS, IN ACCORDANCE WITH JURISDICTIONAL CODES. DUCTS MUST BE MECHANICALLY STRONG, GREASE AND WATER TIGHT.
4. MOUNTING RODS FURNISHED AND INSTALLED BY OTHERS.

CONSTRUCTION:
1. VENTILATORS TO BE MANUFACTURED IN STRICT ACCORDANCE WITH CADDY SPECIFICATIONS.
2. VENTILATORS CONSTRUCTED OF 18 GA. STAINLESS STEEL.

FIRE PROTECTION:
1. SURFACE FIRE PROTECTION PROVIDED AND INSTALLED BY CADDY. (ANSUL R-102).
2. CAUTION: SURFACE FIRE PROTECTION SYSTEM INSTALLATION MUST BE COORDINATED WITH CADDY TO PREVENT SYSTEMS INTERFERENCE WITH VENTILATOR'S OPERATION/PERFORMANCE. IMPROPER INSTALLATION MAY VOID LISTINGS OF THE EQUIPMENT.
3. IMPORTANT NOTE: NFPA 96 REQUIRES THAT ALL GAS AND ELECTRIC COOKING EQUIPMENT THAT IS PROTECTED BY A SURFACE FIRE PROTECTION SYSTEM MUST AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE SYSTEM.

ELECTRICAL REQUIREMENTS:
1. LIGHT FIXTURE BULBS PROVIDED AND INSTALLED BY CADDY.

Intertek NSF NFPA

VERIFICATION NOTE

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Project Title
PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
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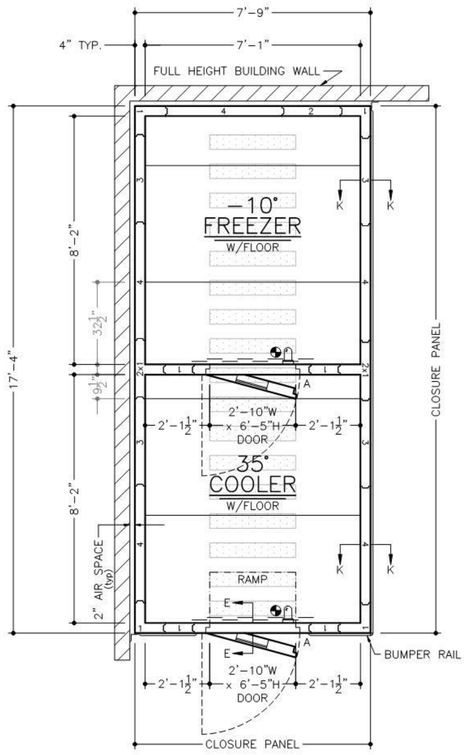
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Issued for Bid:	11/01/23

Sheet Title
EXHAUST HOOD DETAIL DRAWINGS

Sheet No.
PES FS105

CONSTRUCTION DOCUMENTS



* THE F.S.E.C. IS RESPONSIBLE TO INSPECT AND ACCEPT BUILDING FLOOR SLAB / DEPRESSION PRIOR TO INSTALLING THE WALK-IN UNIT.

* NOTIFY THE G.C. IN WRITING, IF THE SLAB IS UNACCEPTABLE FOR A PROPER INSTALLATION OF THE UNIT.

* F.S.E.C. IS RESPONSIBLE FOR FINAL ACCEPTANCE OF WALK-IN INSTALLATION.

COOLER DOOR	
DOOR FRAME KWHr/DAY	1.584
FREEZER DOOR	
DOOR FRAME KWHr/DAY	3.600

INSULATION R-VALUES		
PANEL TYPE	COOLER	FREEZER
4" WALLS, ROOFS & DOORS	R-29	R-32
5" WALLS, ROOFS & DOORS	R-36	R-40
FLOORS	R-25	R-28

COOLER/FREEZER GENERAL SPECIFICATIONS

FINISHES	INTERIOR WALLS: 26-GAUGE STUCCO ACRYLUME INTERIOR CEILING: 26-GAUGE WHITE STUCCO EXPOSED EXTERIOR: 26-GAUGE STUCCO ACRYLUME UNEXPOSED EXTERIOR: 26-GAUGE STUCCO ACRYLUME
PANELS	ALL FOAMED PANELS ARE 4"
FLOOR	CONSTRUCTION TYPE: RAMP FINISH: STAINLESS STEEL
DOOR HARDWARE & ACCESSORIES	• 3 HINGES PER DOOR • HYDRAULIC DOOR CLOSURE • FRAME HEATER • PRESSURE RELIEF VENTS • 14"X14" HEATED VISION WINDOW • VAPOR PROOF LED LIGHT FIXTURE • CONTROL / MONITOR SYSTEM • 36"H DOOR KICK-PLATE ON EXTERIOR/ INTERIOR • POWER AIR CURTAIN • PULL TYPE DOOR LATCH WITH CYLINDER LOCK AND SAFETY RELEASE
WALK-IN ACCESSORIES	• WALL TRIM • CEILING ENCLOSURE TRIM • NON-SKID STRIPS FOR FLOOR AISLES • LOW TEMPERATURE LED LIGHT FIXTURES • DOUBLE RAIL BUMPER RAIL
REFRIGERATION	MANUFACTURER: OMNITEMP

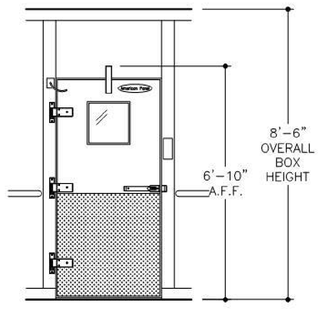
REFRIGERATION: BY OTHERS

NOTE: THE LARGEST DOOR PANEL ON THIS JOB IS 46" x 98".
NOTE: THE LARGEST DOOR PANEL ON THIS JOB IS 46.5" x 93".
CUSTOMER IS TO VERIFY THAT THIS PANEL SIZE WILL NOT CONFLICT WITH ANY JOB SITE RESTRICTIONS.

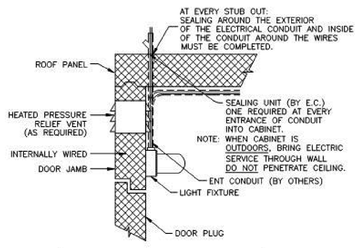
NOTE: CUSTOMER IS TO VERIFY ALL DIMENSIONS, SECTIONS, DETAILS AND SPECIFICATIONS

ELECTRICAL DATA
⏚ = POINT OF ELECTRICAL CONNECTIONS.
WALK-IN DOORS: 115v/1ø - 350w*

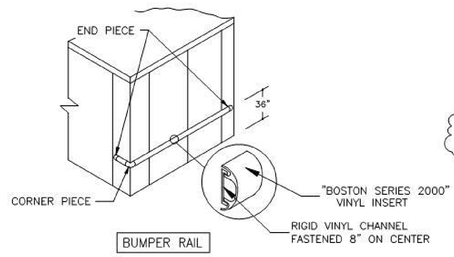
*NOTE: ADD WATTAGE FOR EACH ADDITIONAL LIGHT FIXTURE IN ACCESSORIES.



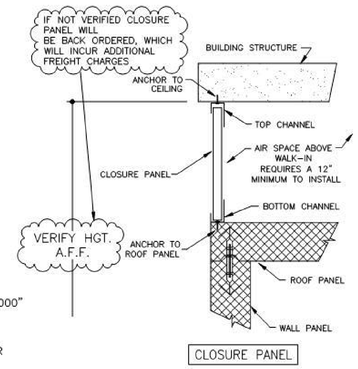
DOOR ELEVATION



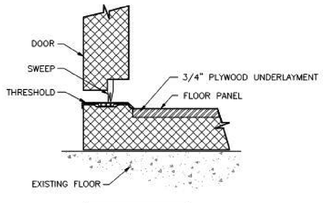
DOOR ELECTRICAL CONNECTION



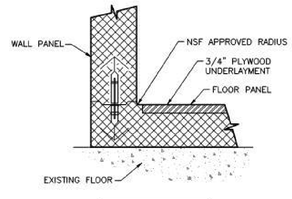
BUMPER RAIL



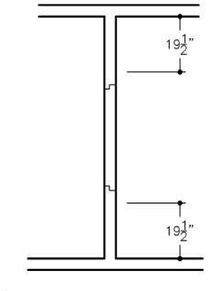
CLOSURE PANEL



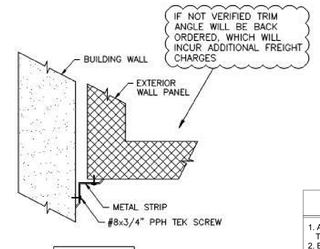
SECTION A – A



SECTION K – K



AVAILABLE SPACE FOR SHELVING



TRIM ANGLE
DETAIL #2

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Project Title
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PAWLING ELEMENTARY SCHOOL
CAPITAL PROJECT - PHASE 3

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Drawn By:	DL
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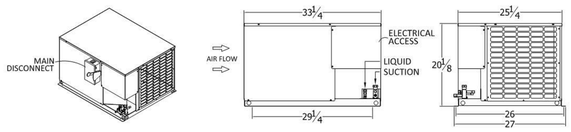
Sheet Title
WALK-IN DETAIL DRAWING

Sheet No.
PES FS106

CONSTRUCTION DOCUMENTS

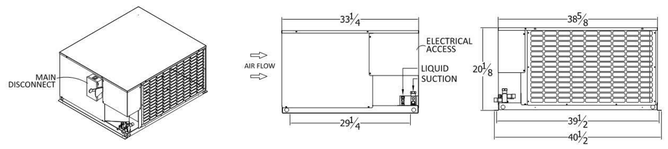
ITEM NO. 1 (Walk-In Cooler)

Model No. PCM005ZCT3A
Qty. 1
Type: Outdoor Air Cooled
Voltage: 208/60/3
Refrigerant: R-448a
HP: 0.5
Weight: 190 lbs.



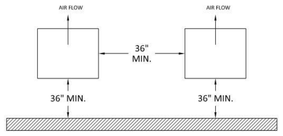
ITEM NO. 2 (Walk-In Freezer)

Model No. PCL025ZCT3A
Qty. 1
Type: Outdoor Air Cooled
Voltage: 208/60/3
Refrigerant: R-448a
HP: 2.5
Weight: 250 lbs.



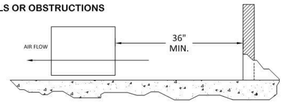
CLEARANCE REQUIREMENTS: PC SERIES (TYPICAL)

MULTIPLE UNITS



For units placed side by side, the minimum distance between units is the width of the largest unit. If units placed end to end, the minimum distance between the units is 4 feet.

WALLS OR OBSTRUCTIONS



The unit should be located so that air may circulate freely and not be re-circulated. For proper air flow and access, all sides of the unit should be a minimum of "W" away from any wall or obstruction. It is preferred that this distance be increased whenever possible. Care should be taken to see that ample room is left for maintenance work through access doors and panels. Overhead obstructions are not permitted.

ENGINEERING SUMMARY

SYSTEM	ITEM #	DESCRIPTION	FIXTURES TEMP °F FIXT.	SUCT.	REQ'D FIXTURE BTU/H	REFRIG. R-	CONDENSING UNIT MODEL NO.	H.P.	RATING @ 60 HZ RLA	V	PH	BTU CAP @ AMB °F 90	TYPE	EVAPORATOR COILS ITEM #	MODEL NO.	QTY	FAN MOTORS @ 60 HZ RLA	V	PH	HEATERS @ 60 HZ RLA	V	PH	DEFR. TYPE	DEFROST CLOCK	ACCESSORIES TSTAT	SOL. VALVE	EXP. VLV.	REFRIGERANT LINE SIZES (IN) SUCT.	SUCT. LINE RISER	LIQUID	TYPE	LINE RUN (FT)	MINIMUM CIRCUIT AMPACITY	MOPD
A	1	WALK-IN COOLER	35	25	7256	448A	PCM005ZCT3A	0.5	4.8	208	3	7380	Z	2	BEL0060	1	0.9	115	1	-	-	-	O.C.	ECOSMART	F	F	EF	5/8	-	3/8	M	100	15	15
B	2	WALK-IN FREEZER	-10	-20	8341	448A	PCL025ZCT3A	2.5	9.7	208	3	8480	Z	3	BEL0080	1	1.0	208	1	9.1	208	1	ELEC	ECOSMART	F	F	EF	7/8	-	1/2	M	100	15	20

EACH CONDENSING UNIT EQUIPPED WITH:

- MAIN DISCONNECT
- DEMAND DEFROST CONTROLLERS
- POWDER COATED STEEL CABINET
- CRANKCASE HEATERS
- HEAD PRESSURE CONTROL VALVE
- DUAL PRESSURE CONTROL
- LIQUID LINE DRIER & SIGHT GLASS
- LOW AMBIENT KIT (HEATED & INSULATED RECEIVER)
- EEV'S & SUCTION TRANSDUCERS ON COILS

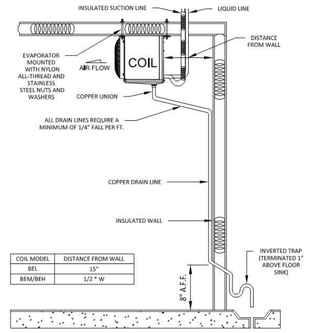
ALL EVAPORATOR COILS WILL REQUIRE A HOUSE POWER SUPPLY

c UL us LISTED

NOTE:
IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO FOLLOW ALL APPLICABLE CODES AND CURRENT REFRIGERATION INDUSTRY STANDARDS AND PRACTICES WHEN DETERMINING LINE SIZES, AND INSTALLING AND STARTING UP RDT EQUIPMENT.

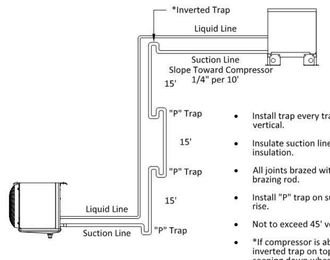
COMPRESSOR TYPE	DEFROST TYPE	LINE TYPE	EVAPORATOR ACCESSORIES
Z SCROLL	O.C. OFF CYCLE ELEC ELECTRIC	M MAIN - UP TO 100'	EF EEV FACTORY EQUIPPED ON EVAP F FACTORY EQUIPPED ON EVAP

EVAPORATOR MOUNTING DETAIL (TYPICAL)



COIL MODEL	DISTANCE FROM WALL
BEL	15"
BEM/BEH	1/2 " W

SUCTION LINE VERTICAL RISE DETAIL



- Install trap every transition from horizontal to vertical.
- Insulate suction lines with 3/4" wall Armaflex insulation.
- All joints brazed with minimum 15% silver content brazing rod.
- Install "P" trap on suction line every 15' vertical rise.
- Not to exceed 45' vertically over all.
- *If compressor is above the evaporator, Install inverted trap on top of the rise to prevent oil from seeping down when fixture(s) is turned off.

Single compressor, outdoor, air cooled. The refrigeration package shall be a pre-engineered and factory-assembled unit, trade name "Polarcraft", as manufactured by Refrigeration Design Technologies, 1808 FM Road 66, P.O. Box 622, Waxahachie, Texas 75167. Phone: (972) 937-3215; Fax: (972) 937-0970.

1. Air-Cooled Refrigeration System
The RDT UL Listed "Air-Cooled" Refrigeration system shall be housed in a weather-protected compact steel frame. The entire housing shall be powder-coated steel. The unit shall include an air-cooled aluminum fin copper tube condenser. The exterior housing shall feature a one piece grille for air flow. Lifting points shall be integrated in the framing component. Condenser fan motors shall be mounted within the enclosure. An optional hail guard is available.

Each unit shall be equipped with a high efficiency fan motor(s), sight glass, liquid filter/drier, liquid line inlet and outlet valve. Each unit shall be equipped with a head pressure regulator for low ambient conditions.

Condensing unit shall contain a scroll type compressor assembled to operate with the refrigerant specified for both medium and low temperature applications.

2. Evaporator Coils
A. Evaporator coils shall be direct expansion type fabricated of copper tubes with aluminum fins.
B. All evaporator coils shall be provided with solenoid valve, thermostatic or electronic expansion valve and thermostat.

3. Pre-Piping
All refrigerant lines shall be extended to outside of the housing in a neat and orderly manner. All tubing shall be securely supported and anchored with non-corrosive coated clamps.

All joints must be brazed.

All piping and controls shall be factory pressure-tested with dry nitrogen.

1. Control Panel
The package shall have a factory-mounted and pre-wired control panel, with main disconnect (non fused) where required, circuit breakers, contactors wired for single point power connection.

General Information
Contractors shall verify all dimensions onsite and coordinate with other trades.

General contractor shall prepare the platform, curbed openings and weatherproofing the unit after installation.

Refrigeration Contractor
All copper tubing to be refrigerant grade. A.C.R. or type "L".

Brazing should be used for all refrigerant piping. Silver solder or soft solder is not acceptable.

All piping to be pressure tested with nitrogen at 300 psi. After the condensing unit and coil have been connected the balance of the system shall be leak tested with the valves open at 200 psi.

The complete system shall be evacuated with a vacuum pump. Each unit should be charged tested and adjusted to assure operation.

Contractor should provide and install the drain-line heater in freezer. Heater shall be connected by electrical contractor. Seal all penetrations through the walk-in units with foam.

Electrical Contractor
Electrical contractor to provide power for refrigeration package and connect control and defrost system as called for in the wiring diagram.

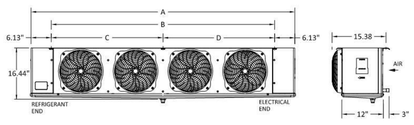
Electrical contractor to connect drain-line heater in the freezer.

All electrical wiring and installation shall be in accordance with the wiring diagram and local codes. Seal all penetrations through the walk-in units with foam.

Plumbing Contractor
Plumbing contractor to provide copper drain lines for walk-in refrigerator and freezer, pitched 1/4" per foot of run. Trap drain-line outside of refrigerated space to avoid entrance of warm, moist air.

All plumbing installation shall be in accordance with local codes.

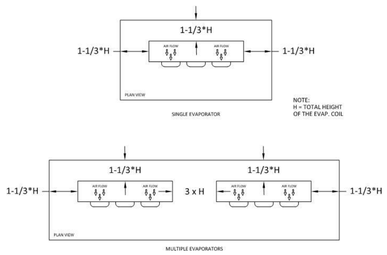
EVAPORATOR DETAILS - MODEL BEL



AIR DEFROST Size	DIMENSIONS A	B	C	D	CONNECTIONS (Inches) Coil Inlet	Suction	Drain	Approx. Net Wt. Lbs.	ELECTRICAL DATA Qty. Motors	EC Motor Fan Amps 115V	208V
	Inches	Inches	Inches	Inches							
060	29-1/2	17-1/4	-	-	1/2 OD	5/8 OD	3/4 MPT	36	1	0.9	0.5

ELECTRIC DEFROST	DIMENSIONS A	B	C	D	CONNECTIONS (Inches) Coil Inlet	Suction	Drain	Approx. Net Wt. Lbs.	ELECTRICAL DATA Qty. Motors	EC Motor Fan Amps	Heater Amps as wired for 208-230/60/1	208-230/60/3	460/60/3
	Inches	Inches	Inches	Inches									
080	45-1/2	33-1/4	-	-	1/2 OD	5/8 OD	3/4 MPT	54	2	1.0	208-230/60/1 9.1	5.7	4.6

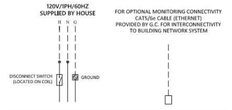
EVAPORATOR PLACEMENT & CLEARANCE REQUIREMENTS LOW PROFILE EVAPORATOR COILS (I.E. - BEL)



WIRING DIAGRAM - ECO-SMART - AKOA1AE DEMAND DEFROST CONTROLLER FOR WALK-IN COOLER WITH ONE COIL 115/60/1

*REFERENCE ENGINEERING SUMMARY FOR COIL AMP DRAWL

ITEM	DESCRIPTION	VOLTAGE
2	WALK-IN COOLER	115/1



Note: Controller provided pre-mounted to housing of evaporator assembly.

Wiring Schedule for Electrical Contractor Requirements:

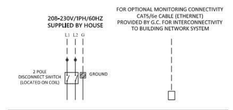
PRIMARY COIL
(3) 115V 12AWG MIN. TO PROVIDE HOUSE POWER TO THE COIL (HOT, NEUTRAL, GROUND)

FACTORY WIRING _____
FIELD WIRING - - - - - - - -

WIRING DIAGRAM - ECO-SMART - AKOB1EE DEMAND DEFROST CONTROLLER FOR WALK-IN FREEZER WITH ONE COIL 208-230/60/1

*REFERENCE ENGINEERING SUMMARY FOR COIL AMP DRAWL

ITEM	DESCRIPTION	VOLTAGE
3	WALK-IN FREEZER	208/3



Note: Controller provided pre-mounted to housing of evaporator assembly.

Wiring Schedule for Electrical Contractor Requirements:

PRIMARY COIL
(3) 208V (AWG SIZE ACCORDING TO HEATER LOAD AND LOCAL CODE) TO PROVIDE HOUSE POWER TO THE COIL (L1, L2 AND GROUND)

FACTORY WIRING _____
FIELD WIRING - - - - - - - -

VERIFICATION NOTE

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PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
CAPITAL PROJECT - PHASE 3

Project Title

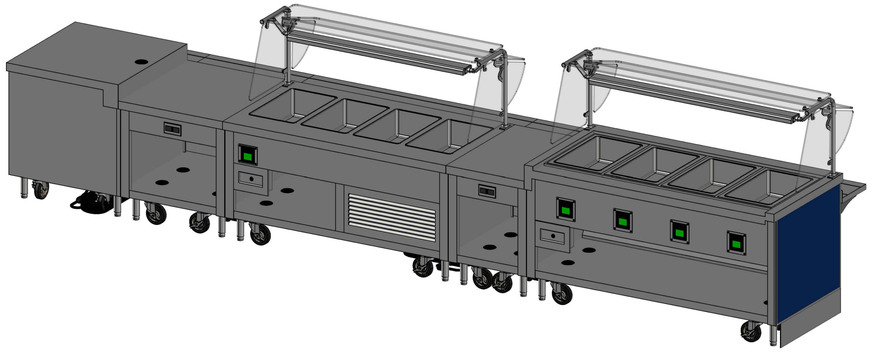
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Checked By: JW
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Issued for Bid: 11/01/23

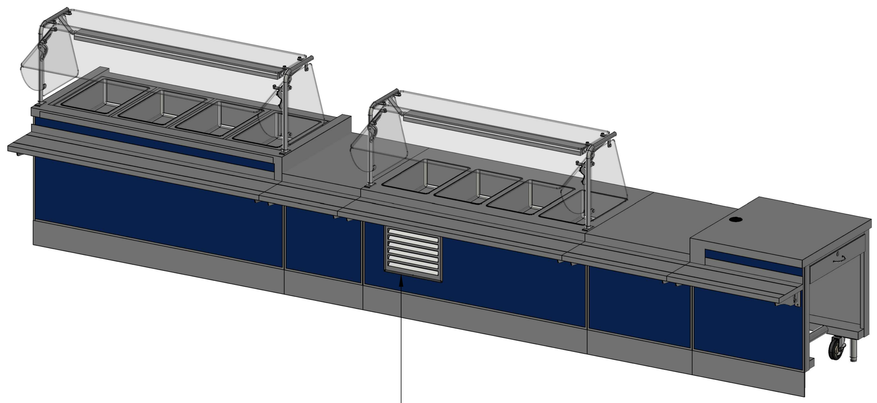
Sheet Title
REFRIGERATION DETAIL DRAWING

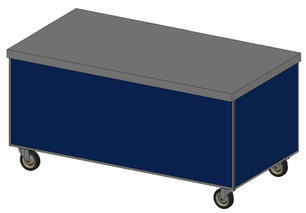
Sheet No.
PES FS107

CONSTRUCTION DOCUMENTS









3D VIEWS

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STANDARD SERVING SYSTEM PRACTICES

SOLID SURFACE TOPS AND TRAY SLIDES

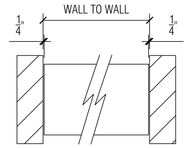
- ALL SOLID SURFACE TOPS AND TRAY SLIDES, WITH FIELD SEAMS, ***WILL SHIP LOOSE***. WHEN SPANNING MORE THAN ONE UNIT.
- SOLID SURFACE TOPS AND TRAY SLIDES SPECIFIC TO SINGLE UNIT WILL SHIP INSTALLED.
- SOLID SURFACE TOPS AND TRAY SLIDES REQUIRE A ***CERTIFIED*** INSTALLER, SPECIFIC TO THE BRAND, TO SEAM THE UNITS IN THE FIELD DURING PRODUCT INSTALLATION.

STAINLESS STEEL TOPS AND TRAY SLIDES

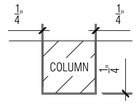
- THE MAXIMUM CONTINUOUS STAINLESS STEEL TOP LENGTH IS 144" [12'-0"], BEFORE REQUIRING A BOLTED OR WELDED FIELD JOINT.
- THE MAXIMUM CONTINUOUS STAINLESS STEEL TRAY SLIDE LENGTH IS 144" [12'-0"], BEFORE REQUIRING A BOLTED OR WELDED FIELD JOINT.
- BOLTED OR WELDED FIELD JOINTS ARE REQUIRED, AT ALL MITERED TRAY SLIDE CORNERS.

ALLOWANCE FOR FIELD CONDITIONS

- FACTORY TO ALLOW ¼" AT ALL WALLS, COLUMNS, AND PASS THROUGH WINDOWS FOR FIT. ***(SEE WALL TO WALL AND COLUMN EXAMPLES)***



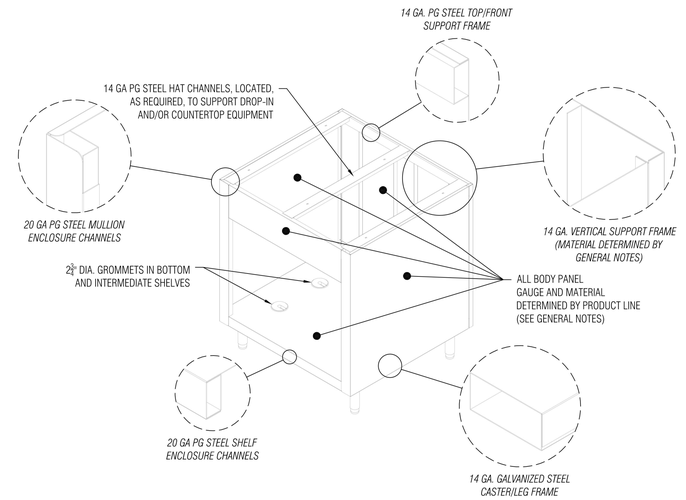
WALL TO WALL EXAMPLE



COLUMN EXAMPLE

ELECTRICAL

- ALL 15 AMP (NEMA #5-15R) AND 20 AMP (NEMA #5-20R) RECEPTACLES SHALL BE GFCI (GROUND FAULT CIRCUIT INTERRUPTER) TYPE RECEPTACLES PER DUKE MANUFACTURING STANDARD. ***UNLESS SPECIFICALLY NOTED OTHERWISE*** ON THE DRAWING. ***(SEE SYMBOL LEGEND)***



STANDARD CHANNEL BODY CONSTRUCTION

SYMBOL LEGEND

DESCRIPTION	*SYMBOL*	*DESCRIPTION*	*SYMBOL*	*DESCRIPTION*	*SYMBOL*
SIMPLEX RECEPTACLE		DUPLEX GFCI RECEPTACLE (NEMA 5-15R & 5-20R ONLY)		ELEC. CORD AND PLUG	
KICKPLATE LOCATION	K	LAMINATE LOCATION	L	DECOR PANEL LOCATION	DP
EQUIPMENT TAG	#	FIELD JOINT LOCATION	FJ	2¾" GROMMET LOCATION	
VIEW TAG	VIEW NUMBER / PAGE NUMBER — 1 PLAN, X SCALE — VIEW NAME / VIEW SCALE			COMPRESSOR WITH REMOVABLE GRILLE	
VIEW ARROWS	X / X	X / X	X / X	X / Y — VIEW NUMBER / PAGE NUMBER	

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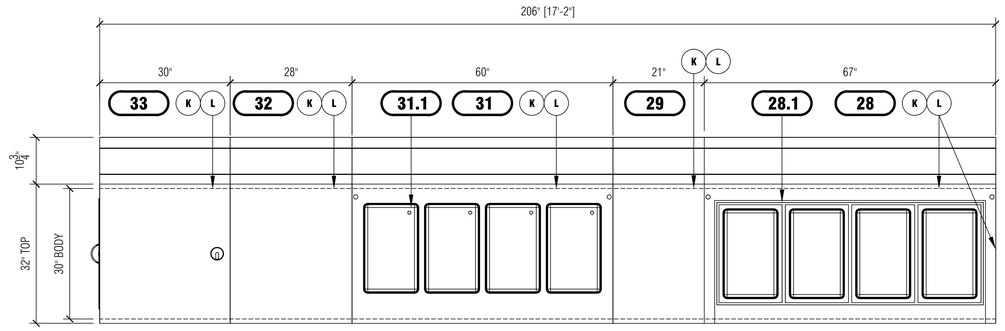
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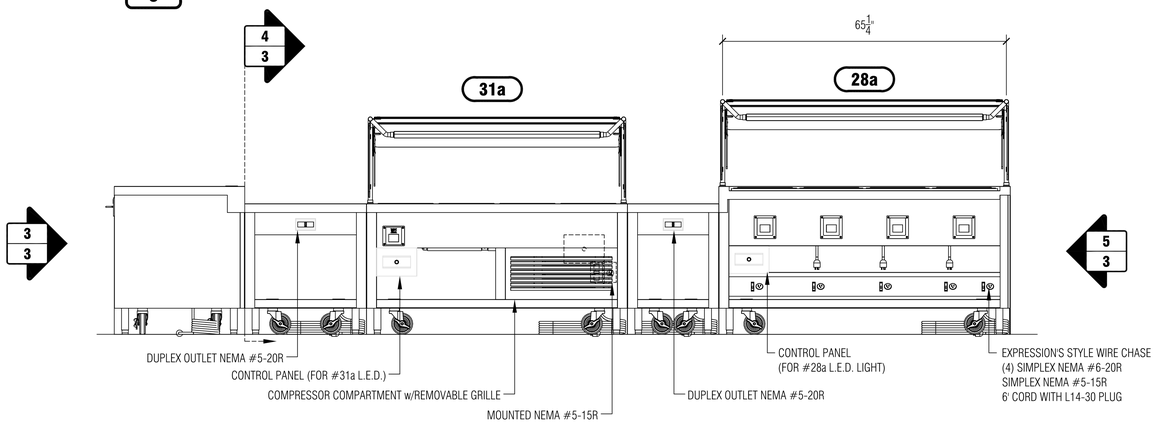
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Sheet Title
SERVING LINE DETAILS

Sheet No.
PES FS108

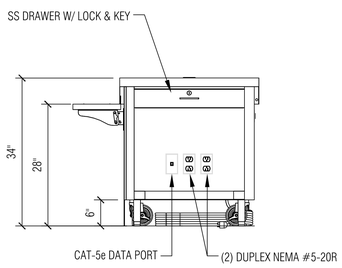
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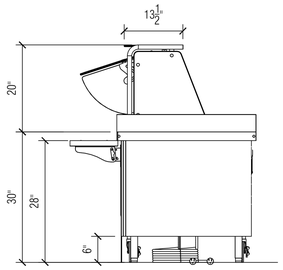


1/3 **PLAN VIEW**

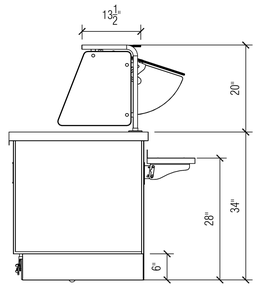
2/3 **ELEVATION VIEW**



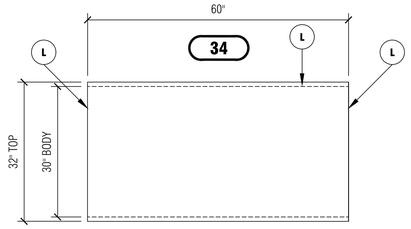
3/3 **END VIEW**



4/3 **END VIEW**



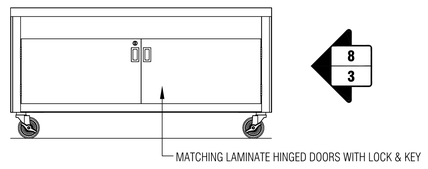
5/3 **END VIEW**



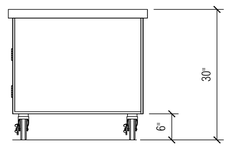
NOTE:
SNEEZE GUARDS NOT SHOWN IN PLAN VIEW

NOTE:
ITEM #28a : 1/2" THICK GLASS OVER-SHELF

6/3 **PLAN VIEW**



7/3 **ELEVATION VIEW**



8/3 **END VIEW**

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Issued for Bid:	11/01/23

Sheet Title
SERVING LINE DETAILS

Sheet No.
PES FS109

CONSTRUCTION DOCUMENTS

GENERAL NOTES

1. THOROUGHLY COORDINATE ALL WORK ASSOCIATED WITH ALL DEVICES FURNISHED BY AND WORK EXECUTED BY "OTHER" CONTRACTORS.
2. BEFORE SUBMITTING SHOP DRAWINGS, VERIFY VOLTAGES AVAILABLE FOR MECHANICAL EQUIPMENT WITH ELECT. CONTRACTOR. VERIFY PROVISION OF ALL STARTERS & DISCONNECT SWITCHES.
3. BEFORE ROUGHING-IN WALLS, THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND ARCHITECT, THE LOCATIONS OF ALL THERMOSTATS AND SWITCHES.
4. BEFORE FABRICATING ANY DUCTWORK, COORDINATE LOCATION AND SIZE WITH PLUMBING PIPING, ELECTRICAL CONDUITS, RECESSED LIGHT FIXTURES, SPRINKLER PIPES, ETC. PLANS ARE SCHEMATIC AND ARE NOT SHOP DRAWINGS. ALSO SEE SPECIFICATIONS. VERIFY LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. VERIFY FINAL LOCATIONS WITH THE ARCHITECT.
5. ALL CONDUITS, PIPING & DUCTWORK SHALL BE CONCEALED ABOVE CEILINGS AND IN CHASES, UNLESS NOTED OTHERWISE. CONDUITS, PIPING AND DUCTWORK SHALL BE ROUTED THROUGH & BETWEEN BAR JOISTS & BETWEEN BEAMS (WITH OFFSETS AS NEEDED) WHERE REQUIRED BY SPACE RESTRICTIONS AND MATERIALS PROVIDED BY OTHER CONTRACTORS.
6. PROVIDE RADIUS AT ELBOWS AT ALL CHANGES IN DIRECTION IN SUPPLY, RETURN AND EXHAUST DUCTWORK WHERE POSSIBLE, AS PER THE SCHEMATIC DETAILS. WHERE CONDITIONS DO NOT PERMIT THE USE OF RADIUS ELBOWS, SQUARE ELBOWS SHALL BE USED WITH TURNING VANES. TURNING VANES SHALL BE AIRFOIL TYPE, ONLY, IN ACCORDANCE WITH SMACNA DETAILS.
7. PROVIDE MANUAL VOLUME DAMPER IN LOW PRESSURE BRANCH SUPPLY, RETURN OR EXHAUST DUCTS TO EACH GRILLE, DIFFUSER, REGISTER, ETC. UNLESS NOTED OTHERWISE (WHERE BRANCH DUCT IS LOCATED ABOVE HARD CEILING, PROVIDE O.B.D. IN AIR TERMINAL DEVICES.) DAMPER SHALL BE AS CLOSE TO MAIN DUCT AS POSSIBLE. PROVIDE MANUAL VOLUME DAMPERS AT OTHER LOCATIONS INDICATED ON PLANS AND AS DIRECTED BY SPECIFICATIONS. SEE SCHEMATIC DUCT DETAILS ON THE DRAWINGS. PROVIDE ACCESS TO ALL DAMPER QUADRANT LOCKS.
8. MECHANICAL CONTRACTOR SHALL CAREFULLY COORDINATE HIS WORK WITH THE DIMENSIONS OF THE CHASE WALLS, WITH OTHER CONTRACTORS, AND WITH THE GEN. CONTRACTOR. TO PROVIDE ADEQUATE CLEARANCES FOR ELBOWS, MITERED TEES, FIRE DAMPER SLEEVES, ETC., AS REQ'D. FOR FIRE PENETRATION SEALANTS OR DAMPERS.
9. INSTALL ALL DUCTS THRU ALL 1-HOUR, 2-HOUR, & 4-HOUR RATED WALLS AND ALL SMOKE PARTITIONS TO LEAVE A MINIMUM OF 2 INCHES ABOVE THE DUCTS, SUCH THAT THE GENERAL CONTRACTOR CAN SEAL THE WALL ABOVE THE DUCTS. DO NOT INSTALL FLEXIBLE DUCT THROUGH RATED WALLS OR SMOKE PARTITIONS.
10. ALL FIRE DAMPERS SHALL BE INSTALLED IN COMPLETE ACCORDANCE WITH THE MFR'S. & U.L. LISTING AND INSTALLATION INSTRUCTIONS. DAMPERS SHALL HAVE SPECIFIC U.L. LISTING FOR THE CONSTRUCTION IN WHICH THEY ARE INSTALLED. PROVIDE FIRE DAMPERS WITH BLADES OUT OF THE AIRSTREAM IN HIGH & MEDIUM PRESSURE DUCTS, AND ALL LOW PRESSURE DUCTS THAT ARE 10 INCHES, OR LESS, IN HEIGHT OR WIDTH. PROVIDE STATIC FIRE DAMPERS IN AIR SYSTEMS THAT SHUTDOWN ON SMOKE DETECTION. PROVIDE DYNAMIC FIRE DAMPERS IN AIR SYSTEMS THAT OPERATE FOR SMOKE REMOVAL.
11. PROVIDE HINGED ACCESS DOORS AT ALL MOTOR OPERATED DAMPERS, FIRE DAMPERS, UPSTREAM HEATING COILS, SMOKE DETECTORS, AND OTHER ITEMS REQUIRING MAINTENANCE. WHERE ACCESS DOOR IS ABOVE A HARD (INACCESSIBLE) CEILING, PROVIDE 24"x24" ACCESS DOOR IN CEILING (MILCOR STYLE DW, MOD. 3203-019 OR APPROVED EQUAL)
12. PIPE, CONDUIT AND DUCT OPENINGS THROUGH WALLS AND SLABS AROUND AND ABOVE MECHANICAL EQUIPMENT ROOMS SHALL BE PACKED WITH MINERAL WOOL AND SEALED.
13. ALL PIPING, CONDUIT AND DUCT OPENINGS IN RATED PARTITIONS AND FLOORS SHALL BE SEALED PER THE SPECIFICATIONS AND FIRE PENETRATION SYSTEM SCHEDULE.
14. PROVIDE ESCUTCHEON PLATES WHERE DUCTS OR PIPES PENETRATE CEILINGS OR WALLS IN FINISHED AREAS & WHERE EXPOSED TO VIEW. ESCUTCHEONS FOR DUCTS SHALL BE CONSTRUCTED OF THE SAME MATERIAL AS DUCT. PIPE ESCUTCHEONS SHALL BE CHROME-PLATED BRASS.
15. ALL DUCT SIZES SHOWN REPRESENT THE FREE AREA OF THE DUCT.
16. PROVIDE ALL AUXILIARY STEEL REQUIRED FOR PIPING AND EQUIPMENT SUPPORT.
17. ROUND BRANCH DUCT CONNECTIONS TO TRUNK DUCTWORK SHALL BE BELLMOUTH CONFIGURATIONS, EXCEPT DUCTWORK DOWNSTREAM OF VARIABLE VOLUME TERMINAL UNITS MAY HAVE SPIN-IN TAPS WITH VOLUME DAMPERS.
18. MOUNT ALL THERMOSTATS, CO2 SENSORS AND SWITCHES AT 48" ABOVE FINISHED FLOOR TO THE CENTERLINE OF THE OPERABLE PART OF MECHANISM (NOT TO BOTTOM OF UNIT).
19. ALL CONCRETE EQUIPMENT PADS ARE TO BE 6" THICK AND EXTEND 6" BEYOND THE BASE OF THE UNIT/UNITS IT SERVES.

POINTS

AI/AF	ANALOG IN – AIR FLOW
AI/AT	ANALOG IN – AIR TEMPERATURE
AI/DPT	ANALOG IN – DIFFERENTIAL PRESSURE TRANSMITTER
AI/FM	ANALOG IN – FLOW METER
AI/FT	ANALOG IN – FLUID TEMPERATURE
AI/H	ANALOG IN – HUMIDITY
AI/FP	ANALOG IN – WATER PRESSURE
AI/ZSA	ANALOG IN – ZONE SETPOINT ADJUST
AO/D	ANALOG OUT – DAMPER
AO/FCV	ANALOG OUT – FLOW CONTROL VALVE
AO/GV	ANALOG OUT – GAS VALVE
AO/PI	ANALOG OUT – PRESSURE INDICATOR
AO/SP	ANALOG OUT – SPEED
AO/TCV	ANALOG OUT – TEMPERATURE CONTROL VALVE
BI/AC	BINARY IN – ALARM CONTACT
BI/CA	BINARY IN – COMMON ALARM
BI/DES	BINARY IN – DAMPER END SWITCH
BI/F	BINARY IN – FAULT
BI/FL	BINARY IN – FLOW
BI/FR	BINARY IN – FREEZSTAT
BI/LSH	BINARY IN – LEVEL SWITCH HIGH
BI/LSL	BINARY IN – LEVEL SWITCH LOW
BI/LWCO	BINARY IN – LOW WATER CUT OFF
BI/M	BINARY IN – MOISTURE SENSOR
BI/SD	BINARY IN – SMOKE DETECTOR
BI/ST	BINARY IN – STATUS
BO/D	BINARY OUT – DAMPER
BO/E	BINARY OUT – ENABLE
BO/MIV	BINARY OUT – MOTORIZED ISOLATION VALVE
BO/OC	BINARY OUT – OPEN/CLOSE COMMAND
BO/SS	BINARY OUT – START/STOP

SYMBOLS

	FLOW METER
	FLOW SWITCH
	LOW WATER CUTOFF
	PRESSURE SENSOR
	FLUID TEMPERATURE SENSOR
	MOISTURE SENSOR
	AIR FLOW MEASURING STATION
	FREEZSTAT
	HUMIDITY SENSOR
	SMOKE DETECTOR
	STATIC PRESSURE SENSOR
	TEMPERATURE SENSOR
	TEMPERATURE SENSOR AVG.
	FACE AND BYPASS DAMPER
	MOTORIZED DAMPER – MIXED AIR DAMPER
	MOTORIZED DAMPER

SYMBOLS

	PROPOSED WORK (THICK LINE)
	EXISTING (HALFTONE, THIN LINE)
	DEMOLITION WORK (DASHED, THICK LINE)
	POINT OF CONNECT/DISCONNECT
	CONTINUATION
OS	OCCUPANCY SENSOR
S	SWITCH
B	BOILER SHUT DOWN
G	EMERGENCY GAS SHUT DOWN
GS	GAS SENSOR
CD	CARBON DIOXIDE SENSOR
CO	CARBON MONOXIDE SENSOR
PS	PRESSURE SENSOR
TS	TEMPERATURE SENSOR
T	THERMOSTAT
H	HUMIDISTAT
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	MANUAL BALANCING VALVE
	PIC VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	RELIEF VALVE
S	SOLENOID VALVE
	STRAINER
	STRAINER WITH BLOWDOWN BALL VALVE
	UNION
	MANUAL AIR VENT
	TRIPLE DUTY VALVE
	FLOW DIRECTION
	INLINE PUMP
	AUTOMATIC AIR VENT
	PRESSURE GAUGE
	THERMOMETER
	PETES PLUG
	PLUG VALVE
T	THERMOSTATIC BALANCING VALVE
	THERMOSTATIC MIXING VALVE
M	WATER METER
	GATE VALVE
	HOSE END BALL VALVE
	OS&Y VALVE

SYSTEM ABBREVIATIONS

—CD—	CONDENSATE
—CHWR—	CHILLED WATER RETURN
—CHWS—	CHILLED WATER SUPPLY
—CWR—	CONDENSER WATER RETURN
—CWS—	CONDENSER WATER SUPPLY
—DTR—	DUAL TEMPERATURE RETURN
—DTS—	DUAL TEMPERATURE SUPPLY
—E—	EXHAUST
—FOR—	FUEL OIL RETURN
—FOS—	FUEL OIL SUPPLY
—GCHR—	GLYCOL CHILLED WATER RETURN
—GCHS—	GLYCOL CHILLED WATER SUPPLY
—GHWR—	GLYCOL HOT WATER RETURN
—GHWS—	GLYCOL HOT WATER SUPPLY
—HMW—	MAKE-UP WATER
—HPS—	HIGH PRESSURE STEAM
—HRWR—	HEAT RECOVERY WATER RETURN
—HRWS—	HEAT RECOVERY WATER SUPPLY
—HWR—	HEATING HOT WATER RETURN
—HWS—	HEATING HOT WATER SUPPLY
—LPS—	LOW PRESSURE STEAM
—MPS—	MEDIUM PRESSURE STEAM
—RL—	REFRIGERANT LIQUID
—RS—	REFRIGERANT SUCTION
—RV—	REFRIGERANT RELIEF VENT
—SCD—	STEAM CONDENSATE
—DCW—	DOMESTIC COLD WATER
—DHW—	DOMESTIC HOT WATER
—DHR—	DOMESTIC HOT WATER RECIRC
—HW140—	DOMESTIC 140 HOT WATER
—HWR140—	DOMESTIC 140 HOT WATER RECIRC
—FP—	FIRE SUPPRESSION
—NG—	NATURAL GAS
—LPG—	PROPANE
—OIL—	OIL
—SAN—	SANITARY WASTE
—ST—	STORM
—V—	VENT
—TW—	TEMPERED WATER
—TWR—	TEMPERED WATER RECIRCULATION
—VAC—	VACUUM
—AV—	ACID VENT
—AW—	ACID WASTE
—LCA—	LABORATORY COMPRESSED AIR
—LVAC—	LABORATORY VACUUM
—LV—	LABORATORY VENT
—LW—	LABORATORY WASTE

ABBREVIATIONS

3BS	3 BAY SINK
AAV	AIR ADMITTANCE VALVE
ABS	ACRYLONITRILE BUTADIENE STYRENE
ABV	ABOVE
AC	AIR COMPRESSOR
ACU	AIR CONDITIONING UNIT
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
ADA	AMERICAN WITH DISABILITIES ACT
ADT	ACID DILUTION TANK
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AGA	AMERICAN GAS ASSOCIATION
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMP	AMPERE(S)
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ANT	ACID NEUTRALIZATION TANK
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
AS	AIR SEPARATOR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AT	AIR TERMINAL UNIT
AV	ACID VENT
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BCU	BLOWER COIL UNIT
BEL	BELOW
BF	BARRIER FREE
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BFP	BACK FLOW PREVENTER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STEEL
BPHX	BRAISED PLATE HEAT EXCHANGER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BWV	BACK WATER VALVE
CA	COMPRESSED AIR
CB	CATCH BASIN
CD	CONDENSATE
CF	CUBIC FEET
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CI	CAST IRON
CISPI	CAST IRON SOIL PIPE INSTITUTE
CLG	CEILING
CO	CLEAN OUT
CON	CONDENSATE
CONV	CONVECTOR
COP	CLEAN OUT PLUG
COV	COMBINATION OVEN
CPVC	CHLORINATED POLYVINYL CHLORIDE
CTW	COOLING TOWER
CTE	CONNECT TO EXISTING
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CWP	COLD WORKING PRESSURE
CWR	CONDENSER WATER RETURN
CWV	COMBINATION WASTE AND VENT
DB	DECIBELS
DDC	DIRECT DIGITAL CONTROLS
DCA	DOUBLE CHECK ASSEMBLY
DEG	DEGREE(S)
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNIT(S)
DHR	DOMESTIC HOT WATER RECIRCULATION
DIA	DIAMETER
DN	DOWN
DR	DISH RETURN
DRP	DOMESTIC RECIRCULATION PUMP
DRS	DISH RETURN WITH SINK
DS	DOWN SPOUT
DW	DISH WASHER
DWV	DRAINAGE, WASTE AND VENT
DWET	DOMESTIC WATER EXPANSION TANK
DWH	DOMESTIC WATER HEATER
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECM	ELECTRONICALLY COMMUTATED MOTOR
ELEV	ELEVATION
EF	EXHAUST FAN
EFT	ENTERING FLUID TEMPERATURE
ERU	ENERGY RECOVERY UNIT
ERV	ENERGY RECOVERY VENTILATOR
ERW	ENERGY RECOVERY WHEEL
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETMV	EMERGENCY THERMOSTATIC MIXING VALVE
EUH	ELECTRIC UNIT HEATER
EW	EYE WASH
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EXR	EXISTING TO REMAIN
F	FAN
FCO	FLOOR CLEAN OUT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FGE	FINISHED GRADE ELEVATION
FLA	FULL LOAD AMPERES
FLR	FLOOR
FP	FIRE PROTECTION
FPD	FLUID PRESSURE DROP
FPM	FEET PER MINUTE
FRAC	FRACTIONAL
FS	FLOOR SINK
FT	FEET
FTH	FEET HEAD
FTR	FIN TUBE RADIATOR
GA	GAUGE
GAL	GALLON(S)
GALV	GALVANIZE(D)
GCO	GRADE CLEAN OUT
GEN	GENERATOR
GM	GAS METER
GPC	GALLONS PER CYCLE
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
GT	GREASE TRAP
GV	GRAVITY VENTILATOR
GW	GREASE WASTE

ABBREVIATIONS

HB	HOSE BIB
HC	HEATING COIL
HD	HEAD
HP	HORSEPOWER
HRWR	HEAT RECOVERY WATER RETURN
HV	HOSE VALVE
HVU	HEATING/VENTILATION UNIT
HW	HOT WATER
HWR	HEATING HOT WATER RETURN
ID	INSIDE DIAMETER
IMB	ICE MACHINE BOX
IN	INCH
INV	INVERT
IW	INDIRECT WASTE
IWC	INCHES OF WATER COLUMN
K	KETTLE
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LBS	POUNDS
LDR	LEADER
LF	LINEAR FOOT
LFT	LEAVING FLUID TEMPERATURE
LPG	LIQUEFIED PETROLEUM GAS
LRA	LOCKED ROTOR AMPERES
LVC	LABORATORY VACUUM
LWCO	LOW WATER CUT OFF
LWT	LEAVING WATER TEMPERATURE
MAU	MAKE UP AIR UNIT
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MFS	MAXIMUM FUSE SIZE
MFW	MECHANICAL FEED WATER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MPS	MEDIUM PRESSURE STEAM (16-59 PSIG)
MSB	MOP SINK BASIN
NC	NORMALLY CLOSED; NEW CONNECTION
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFGH	NON-FREEZE GROUND HYDRANT
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NFRH	NON-FREEZE ROOF HYDRANT
NFWH	NON-FREEZE WALL HYDRANT
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
NTS	NOT TO SCALE
O2	OXYGEN
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
OS&Y	OUTSIDE SPINDLE & YOKE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OVF	OVERFLOW
OWS	OIL WATER SEPARATOR
P	PUMP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PDI	PLUMBING AND DRAINAGE INSTITUTE
PE	POLYETHYLENE
PEX	CROSS LINKED POLYETHYLENE
PFHX	PLATE & FRAME HEAT EXCHANGER
PG	PRESSURE GAUGE
PH	PHASE
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
POC	POINT OF CONNECTION
PPR	POLYPROPYLENE RANDOM
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH WATER GAUGE
PT	PRESSURE TANK
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RD	ROOF DRAIN
RECIRC	RECIRCULATION
RFW	RADIANT FLOOR MANIFOLD
RM	ROOM
RP	RADIANT PANEL
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE ASSEMBLY
RTU	ROOFTOP UNIT
RWH	RECESSED WALL HYDRANT
SA	SUPPLY AIR
SAN	SANITARY WASTE
SF	SQUARE FEET
SH	SHOWER
SK	SINK
SP	SUBMERSIBLE PUMP
SS	SAFETY SHOWER
ST	STORM
STHX	SHELL & TUBE HEAT EXCHANGER
TD	TRENCH DRAIN
THRU	THROUGH
TMS	THERMOSTATIC MIXING STATION
TMV	THERMOSTATIC MIXING VALVE
TS	TAMPER SWITCH
TW	TEPID WATER
TYP	TYPICAL
UD	UTILITY DISTRIBUTION
UG	UNDERGROUND
UH	UNIT HEATER
UR	URINAL
UV	UNIT VENTILATOR
V	VENT
VB	VACUUM BREAKER
VFD	VARIABLE FREQUENCY DRIVE
VLV	VALVE
VTR	VENT THRU ROOF
W	WASTE
WB	WET BULB TEMPERATURE
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WD	WASHER/DRYER
WF	WASH FOUNTAIN
WG	WATER GAUGE
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WMB	WASHER MACHINE BOX
WOG	WATER OIL GAS

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PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

Project Title

STATE OF NEW YORK
ZACHARY ROBERT GALLIGAN
LICENSED PROFESSIONAL ENGINEER
097797
Expires : 06/30/2025

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GENERAL NOTES, LEGENDS AND ABBREVIATIONS

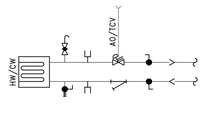
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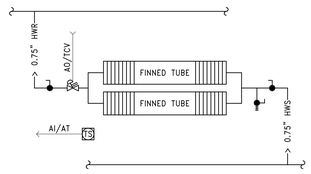
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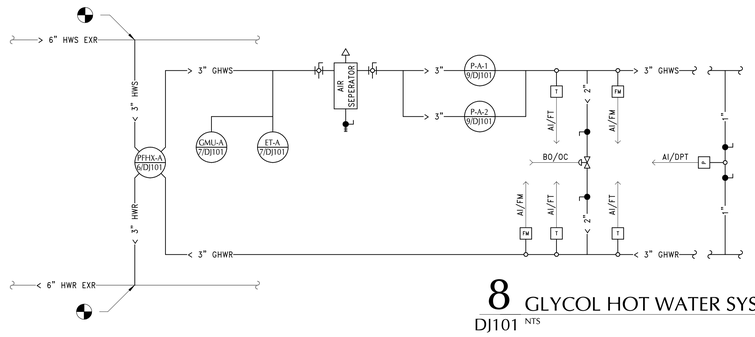
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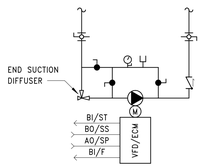
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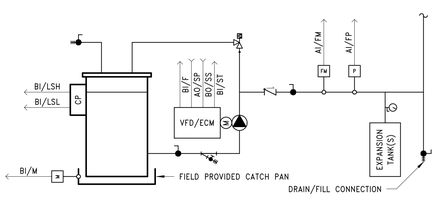
9 TYPICAL FINNED TUBE
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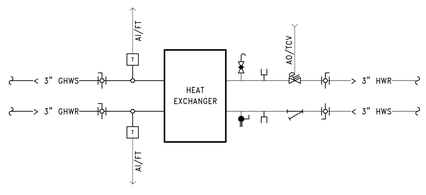
8 GLYCOL HOT WATER SYSTEM
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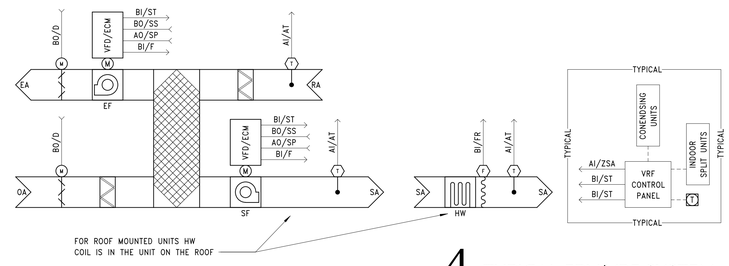
7 INLINE PUMP
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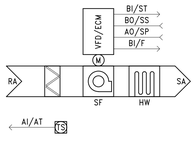
6 EXPANSION TANK AND GLYCOL MAKE UP
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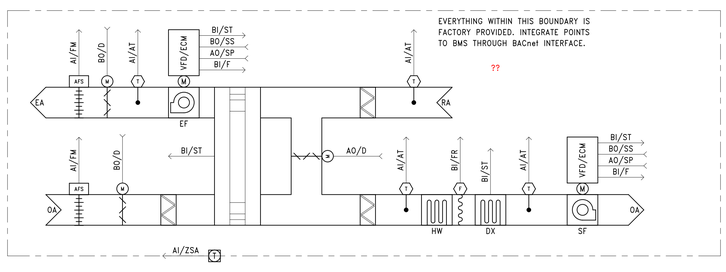
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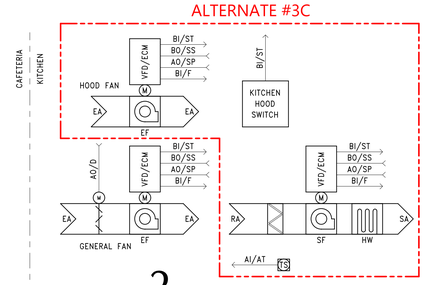


4 TYPICAL ERV/VRF SYSTEM
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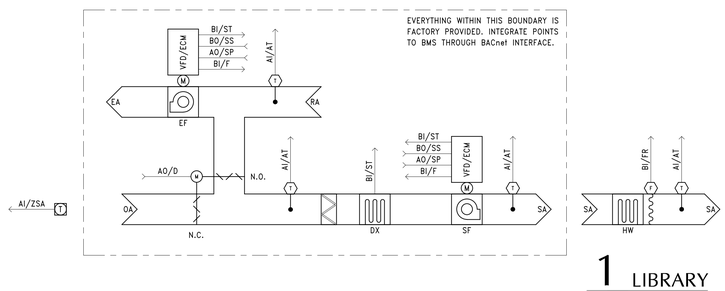


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PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

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CONSTRUCTION DOCUMENTS

ABBREVIATIONS

3BS	3 BAY SINK
AAV	AIR ADMITTANCE VALVE
ABS	ACRYLONITRILE BUTADIENE STYRENE
ABV	ABOVE
AC	AIR COMPRESSOR
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
ADA	AMERICAN WITH DISABILITIES ACT
ADT	ACID DILUTION TANK
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AGA	AMERICAN GAS ASSOCIATION
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMP	AMPERE(S)
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ANT	ACID NEUTRALIZATION TANK
AP	ACCESS PANEL
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BAS	BUILDING AUTOMATION SYSTEM
BEL	BELOW
BF	BARRIER FREE
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BFP	BACK FLOW PREVENTER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STEEL
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
BWV	BACK WATER VALVE
CA	COMPRESSED AIR
CB	CATCH BASIN
CD	CONDENSATE
CF	CUBIC FEET
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CISPI	CAST IRON SOIL PIPE INSTITUTE
CLG	CEILING
CO	CLEAN OUT
CON	CONDENSATE
CONV	CONVECTOR
COP	CLEAN OUT PLUG
COV	COMBINATION OVEN
CPVC	CHLORINATED POLYVINYL CHLORIDE
CTE	CONNECT TO EXISTING
CTW	COOLING TOWER
CWP	COLD WORKING PRESSURE
CWV	COMBINATION WASTE AND VENT
DB	DECIBELS
DDC	DIRECT DIGITAL CONTROLS
DCA	DOUBLE CHECK ASSEMBLY
DEG	DEGREE(S)
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNIT(S)
DHR	DOMESTIC HOT WATER RECIRCULATION
DIA	DIAMETER
DN	DOWN
DR	DISH RETURN
DRP	DOMESTIC RECIRCULATION PUMP
DRS	DISH RETURN WITH SINK
DS	DOWN SPOUT
DW	DISH WASHER
DWV	DRAINAGE, WASTE AND VENT
DWET	DOMESTIC WATER EXPANSION TANK
DWH	DOMESTIC WATER HEATER
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECM	ELECTRONICALLY COMMUTATED MOTOR
ELEV	ELEVATION
EF	EXHAUST FAN
EFT	ENTERING FLUID TEMPERATURE
ERU	ENERGY RECOVERY UNIT
ERV	ENERGY RECOVERY VENTILATOR
ERW	ENERGY RECOVERY WHEEL
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETMV	EMERGENCY THERMOSTATIC MIXING VALVE
EUH	ELECTRIC UNIT HEATER
EW	EYE WASH
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EXR	EXISTING TO REMAIN
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FGE	FINISHED GRADE ELEVATION
FLA	FULL LOAD AMPERES
FLR	FLOOR
FP	FIRE PROTECTION
FPD	FLUID PRESSURE DROP
FPM	FEET PER MINUTE
FRAC	FRACTIONAL
FS	FLOOR SINK
FT	FEET
FTH	FEET HEAD
GA	GAUGE
GAL	GALLON(S)
GALV	GALVANIZE(D)
GCO	GRADE CLEAN OUT
GEN	GENERATOR
GM	GAS METER
GPC	GALLONS PER CYCLE
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
GT	GREASE TRAP
GW	GREASE WASTE
HB	HOSE BIB
HD	HEAD
HP	HORSEPOWER
HRWS	HEAT RECOVERY WATER RETURN
HV	HOSE VALVE
HW	HOT WATER

ABBREVIATIONS

ID	INSIDE DIAMETER
IMB	ICE MACHINE BOX
IN	INCH
INV	INVERT
IW	INDIRECT WASTE
IWC	INCHES OF WATER COLUMN
K	KETTLE
KW	KILOWATT
KWH	KILOWATT HOUR
LAV	LAVATORY
LBS	POUNDS
LDR	LEADER
LF	LINEAR FOOT
LFT	LEAVING FLUIF TEMPERATURE
LPG	LIQUEFIED PETROLEUM GAS
LRA	LOCKED ROTOR AMPERES
LVC	LABORATOY VACUUM
LWCO	LOW WATER CUT OFF
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MFS	MAX FUSE SIZE
MFW	MECHANICAL FEED WATER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MSB	MOP SINK BASIN
NC	NORMALLY CLOSED; NEW CONNECTION
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFGH	NON-FREEZE GROUND HYDRANT
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NFRH	NON-FREEZE ROOF HYDRANT
NFWH	NON-FREEZE WALL HYDRANT
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
NTS	NOT TO SCALE
O2	OXYGEN
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
OS&Y	OUTSIDE SPINDLE & YOKE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OVF	OVERFLOW
OWS	OIL WATER SEPARATOR
P	PUMP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PDI	PLUMBING AND DRAINAGE INSTITUTE
PE	POLYETHYLENE
PEX	CROSS LINKED POLYETHYLENE
PG	PRESSURE GAUGE
PH	PHASE
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
POC	POINT OF CONNECTION
PPR	POLYPROPYLENE RANDOM
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH WATER GUAGE
PT	PRESSURE TANK
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RD	ROOF DRAIN
RECIRC	RECIRCULATION
RM	ROOM
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE ASSEMBLY
RTU	ROOFTOP UNIT
RWH	RECESSED WALL HYDRANT
SA	SUPPLY AIR
SAN	SANITARY WASTE
SF	SQUARE FEET
SH	SHOWER
SK	SINK
SP	SUBMERSIBLE PUMP
SS	SAFETY SHOWER
ST	STORM
TD	TRENCH DRAIN
THRU	THROUGH
TMS	THERMOSTATIC MIXING STATION
TMV	THERMOSTATIC MIXING VALVE
TS	TAMPER SWITCH
TW	TEPID WATER
TYP	TYPICAL
UD	UTILITY DISTRIBUTION
UG	UNDERGROUND
UR	URINAL
V	VENT
VB	VACUUM BREAKER
VFD	VARIABLE FREQUENCY DRIVE
VLV	VALVE
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WD	WASHER/DRYER
WF	WASH FOUNTAIN
WG	WATER GUAGE
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WMB	WASHER MACHINE BOX
WOG	WATER OIL GAS

SYMBOLS

	PROPOSED WORK (THICK LINE)
	EXISTING (HALFTONE, THIN LINE)
	DEMOLITION WORK (DASHED, THICK LINE)
	POINT OF DISCONNECT- RECONNECT
	CONTINUATION
	PIPE RISE
	PIPE DROP
	T UP
	T DOWN
	PLUMBING TRAP
	MANUAL BALANCING VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	RELIEF VALVE
	SOLENOID VALVE
	STRAINER
	STRAINER WITH BLOWDOWN BALL VALVE
	UNION
	FLOW DIRECTION
	INLINE PUMP
	PRESSURE GAUGE
	THERMOMETER
	PETES PLUG
	CLEANOUT
	PLUG VALVE
	THERMOSTATIC BALANCING VALVE
	THERMOSTATIC MIXING VALVE
M	WATER METER
	GATE VALVE
	HOSE END BALL VALVE
	OS&Y VALVE

SYMBOLS

—CD—	CONDENSATE
—DCW—	DOMESTIC COLD WATER
—DHW—	DOMESTIC HOT WATER
—DHR—	DOMESTIC HOT WATER RECIRC
—HW140—	DOMESTIC 140 HOT WATER
—HWR140—	DOMESTIC 140 HOT WATER RECIRC
—FP—	FIRE SUPPRESSION
—NG—	NATURAL GAS
—LPG—	PROPANE
—OIL—	OIL
—SAN—	SANITARY WASTE
—ST—	STORM
—V—	VENT
—TW—	TEMPERED WATER
—TWR—	TEMPERED WATER RECIRCULATION
—VAC—	VACUUM
—E—	EXHAUST
—AV—	ACID VENT
—AW—	ACID WASTE
—LCA—	LABORATORY COMPRESSED AIR
—LVAC—	LABORATORY VACUUM
—LV—	LABORATORY VENT
—LW—	LABORATORY WASTE

GENERAL NOTES

1. THOROUGHLY COORDINATE ALL WORK ASSOCIATED WITH ALL DEVICES FURNISHED BY AND WORK EXECUTED BY "OTHER" CONTRACTORS.
2. BEFORE SUBMITTING SHOP DRAWINGS, VERIFY VOLTAGES AVAILABLE FOR PLUMBING EQUIPMENT WITH ELECTRICAL CONTRACTOR. VERIFY PROVISION OF ALL STARTERS & DISCONNECT SWITCHES.
3. ALL PIPING SHALL BE CONCEALED ABOVE CEILINGS AND IN CHASES, UNLESS NOTED OTHERWISE. CONDUITS, PIPING AND DUCTWORK SHALL BE ROUTED THROUGH & BETWEEN BAR JOISTS & BETWEEN BEAMS (WITH OFFSETS AS NEEDED) WHERE REQUIRED BY SPACE RESTRICTIONS AND MATERIALS PROVIDED BY OTHER CONTRACTORS.
4. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, SWITCHBOARDS, SWITCHGEAR, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES.
5. PIPE OPENINGS THROUGH WALLS AND SLABS AROUND AND ABOVE MECHANICAL EQUIPMENT ROOMS SHALL BE PACKED WITH MINERAL WOOL AND SEALED.
6. PROVIDE ESCUTCHEON PLATES WHERE PIPES PENETRATE CEILINGS OR WALLS IN FINISHED AREAS & WHERE EXPOSED TO VIEW. PIPE ESCUTCHEONS SHALL BE CHROME-PLATED BRASS.
7. PROVIDE WALL CLEANOUTS AT THE BASE OF EACH SANITARY AND STORM VERTICAL RISER.
8. PROVIDE WATER HAMMER ARRESTORS ON ALL DOMESTIC COLD AND HOT WATER PIPING IN ACCORDANCE WITH PDI WH-201.
9. PROVIDE ISOLATION VALVES ON ALL BRANCH PIPING PROVIDED AND AT ALL CONNECTIONS TO EQUIPMENT OR FIXTURES.
10. ISOLATION VALVES SERVING EMERGENCY PLUMBING FIXTURES MUST BE THE LOCKING TYPE.
11. PIPING AND DUCTWORK ELEVATIONS ARE APPROXIMATE. FIELD VERIFY AND MODIFY AS REQUIRED TO SUIT ACTUAL CONDITIONS.
12. PROVIDE ACCESS PANELS FOR ALL VALVES WITHIN CHASES OR ABOVE NON-ACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
13. PROVIDE ALL AUXILIARY STEEL REQUIRED FOR PIPING, FLUE, AND EQUIPMENT SUPPORT.
14. ALL ITEMS THAT COME INTO CONTACT WITH POTABLE WATER SHALL CONFORM WITH ANSI/NSF 61 AND ANSI/NSF 372.

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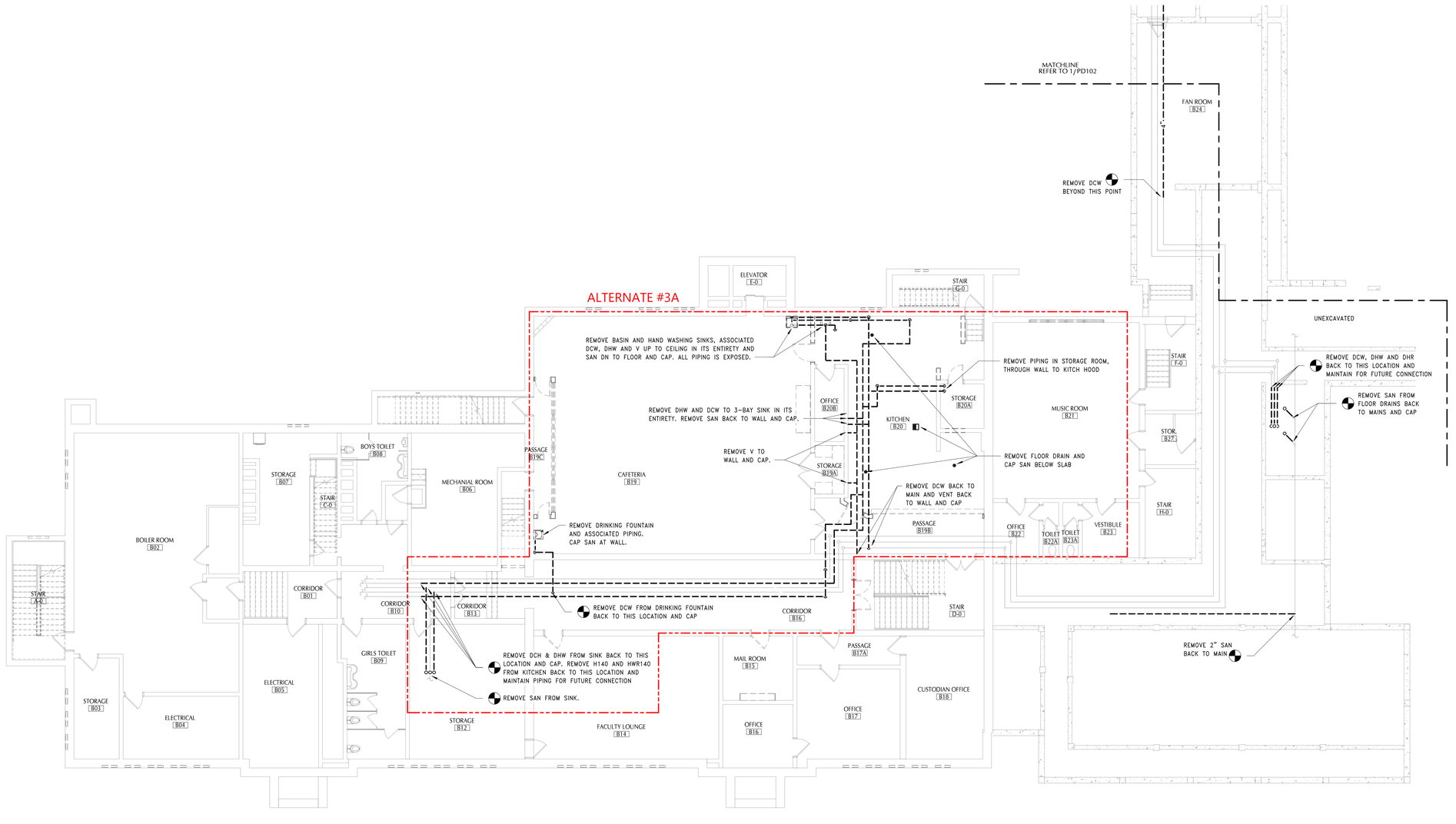
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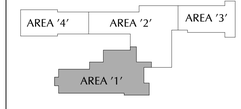
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1 GROUND FLOOR DEMOLITION PLAN - AREA '1'
PD101 1/8" = 1'-0"

KEY NOTES

KEY PLAN



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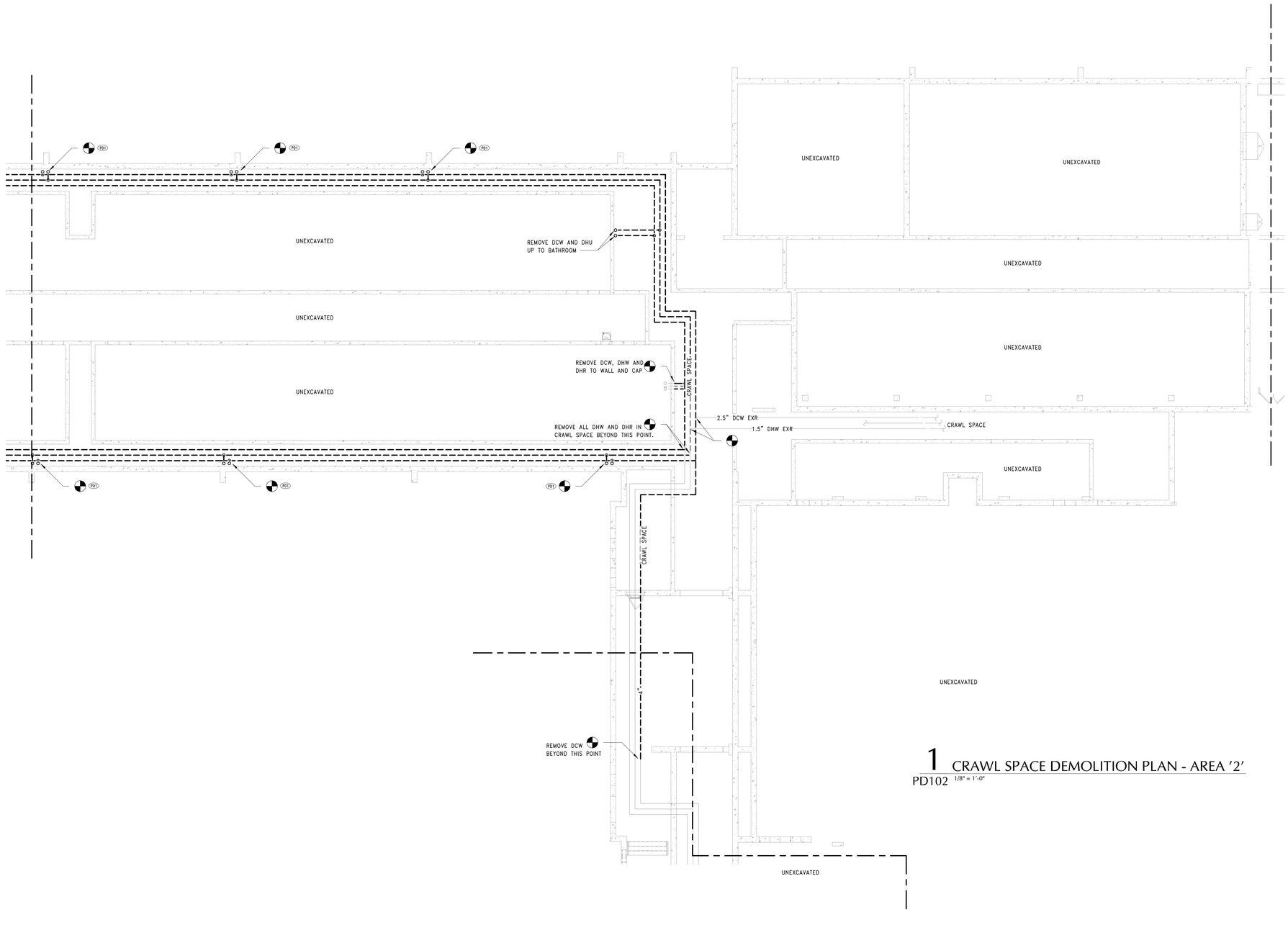
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1 CRAWL SPACE DEMOLITION PLAN - AREA '2'
PD102 1/8" = 1'-0"

KEY NOTES

PD1	REMOVE DCW AND DHW UP TO FLOOR, CAP AND ABANDON PIPING IN CHASE ABOVE.

KEY PLAN



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CRAWL SPACE DEMOLITION PLAN - AREA '2'

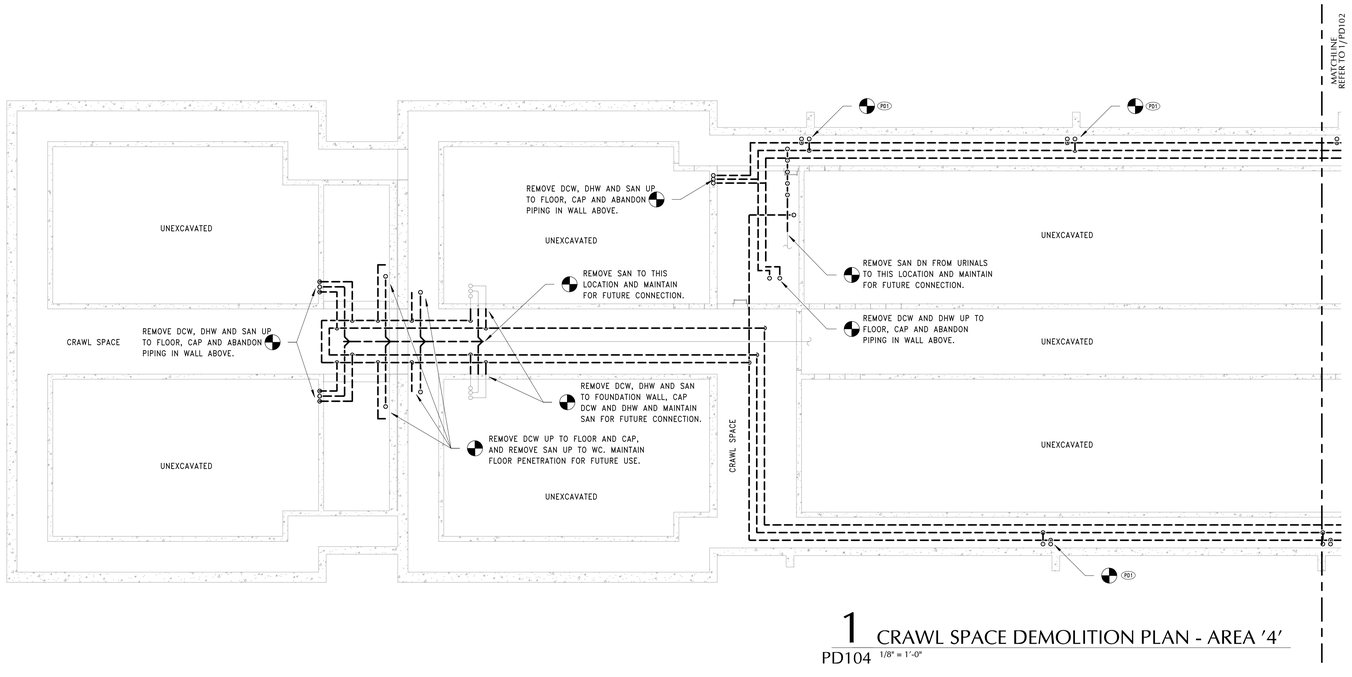
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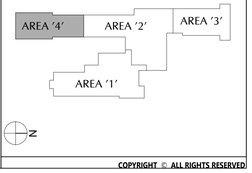
KEY NOTES

PD1	REMOVE DCW AND DHW UP TO FLOOR, CAP AND ABANDON PIPING IN CHASE ABOVE.



1 CRAWL SPACE DEMOLITION PLAN - AREA '4'
PD104 1/8" = 1'-0"

KEY PLAN



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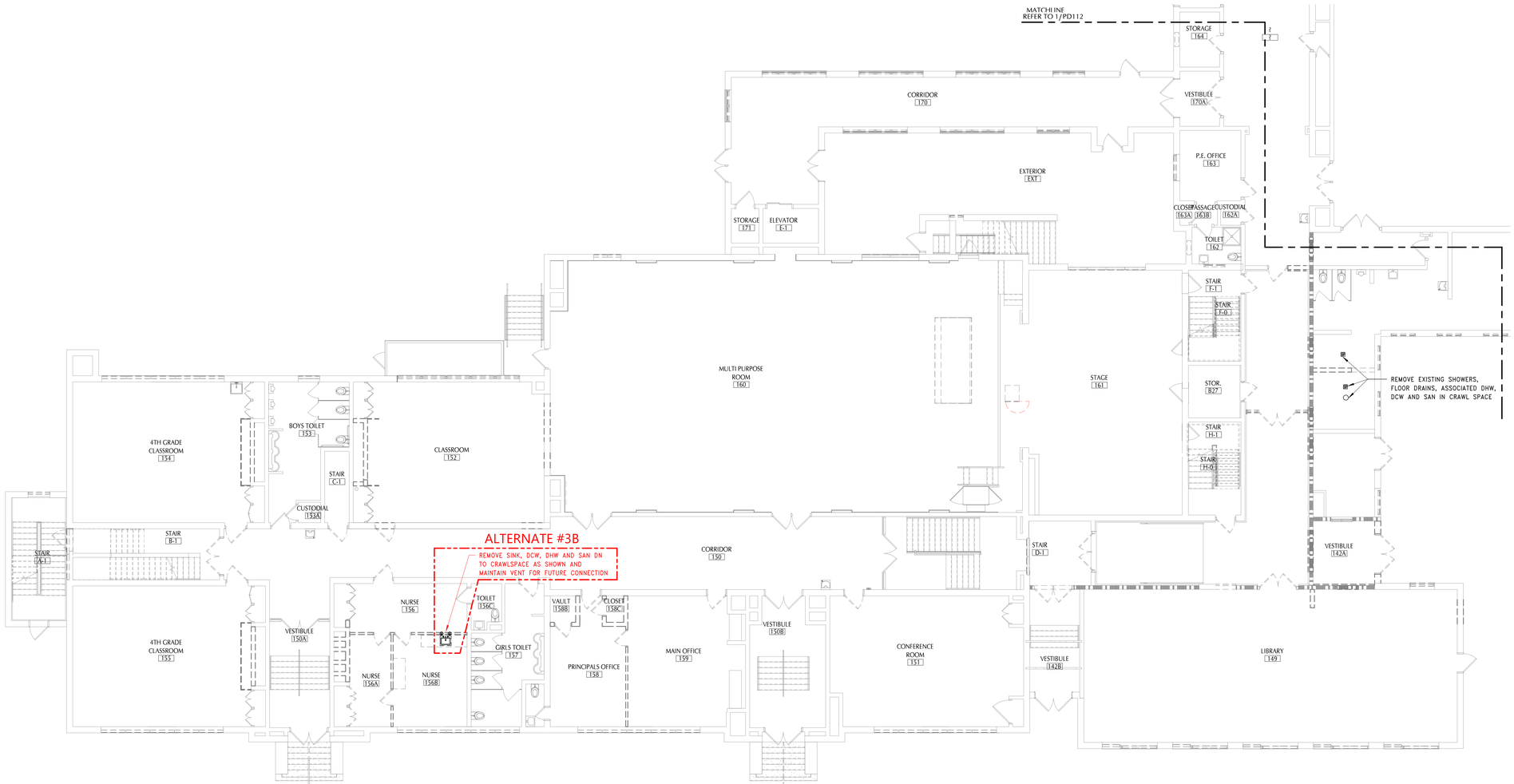
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CRAWL SPACE DEMOLITION PLAN - AREA '4'

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1 FIRST FLOOR DEMOLITION PLAN - AREA '1'
PD111 1/8" = 1'-0"

KEY NOTES

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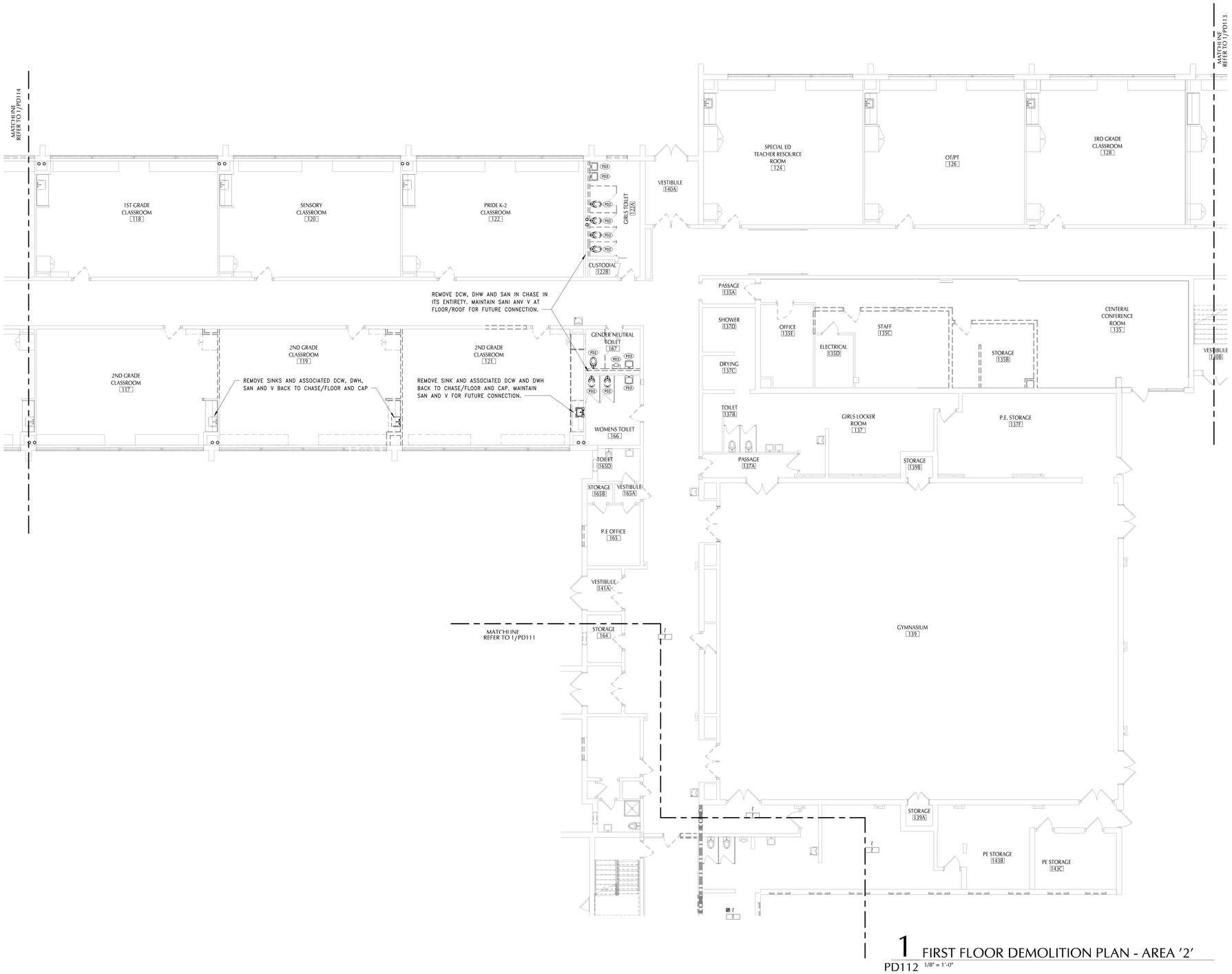
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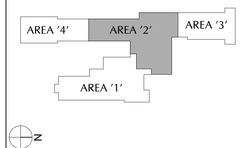


1 FIRST FLOOR DEMOLITION PLAN - AREA '2'
PD112 1/8" = 1'-0"

KEY NOTES

PD2	REMOVE FLOOR MOUNTED WATER CLOSET AND ASSOCAITED DCW, MAINTAIN SAN AT FLOOR FOR FUTURE CONNECTION.
PD3	REMOVE FIXTURE AND ALL ASSOCIATED PIPING BACK TO MAINS.

KEY PLAN



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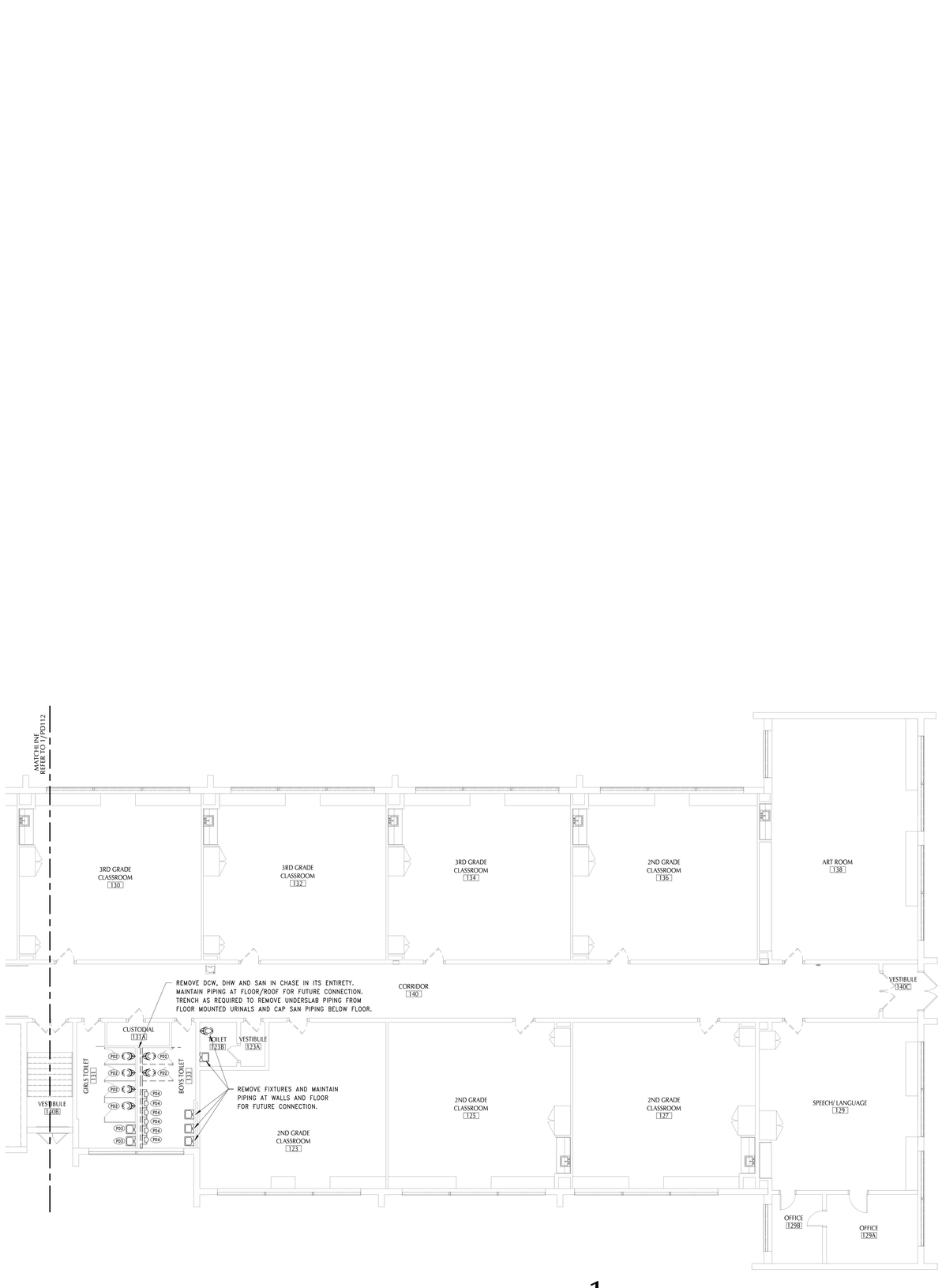
FIRST FLOOR DEMOLITION PLAN - AREA '2'

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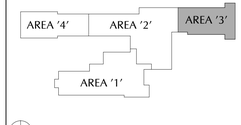


1 FIRST FLOOR DEMOLITION PLAN - AREA '3'
PD113 1/8" = 1'-0"

KEY NOTES

PD2	REMOVE FLOOR MOUNTED WATER CLOSET AND ASSOCAITED DCW, MAINTAIN SAN AT FLOOR FOR FUTURE CONNECTION.
PD3	REMOVE FIXTURE AND ALL ASSOCIATED PIPING BACK TO MAINS.
PD4	REMOVE FLOOR MOUNTED URINAL, SAN IN CRAWL SPACE BACK TO MAIN AND DCW IN CHASE.

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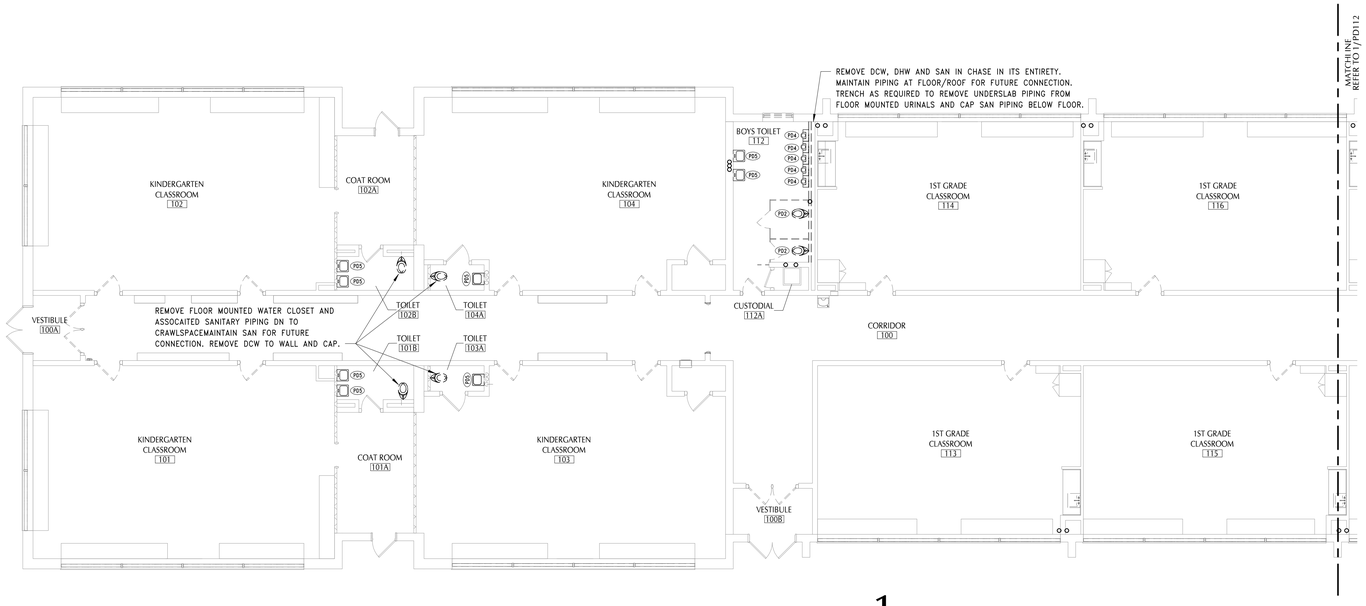
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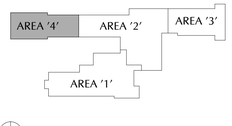
KEY NOTES

PD2	REMOVE FLOOR MOUNTED WATER CLOSET AND ASSOCAITED DCW, MAINTAIN SAN AT FLOOR FOR FUTURE CONNECTION.
PD4	REMOVE FLOOR MOUNTED URINAL, SAN IN CRAWL SPACE BACK TO MAIN AND DCW IN CHASE.
PD5	REMOVE LAVATORY, DCW, DHW AND SAN BACK TO WALL AND CAP.



1 FIRST FLOOR DEMOLITION PLAN - AREA '4'
PD114 1/8" = 1'-0"

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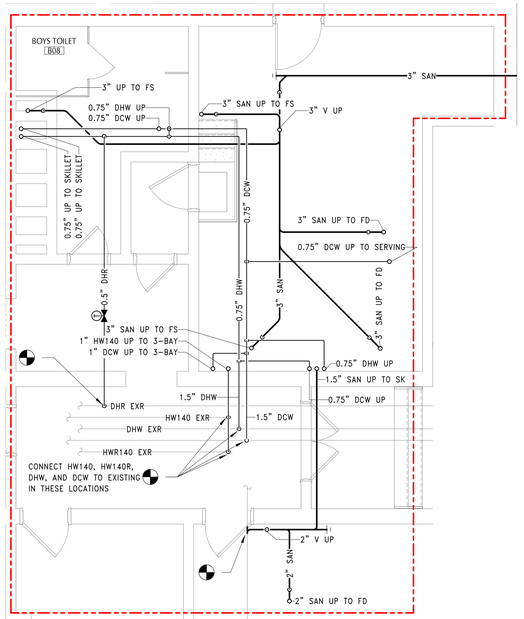
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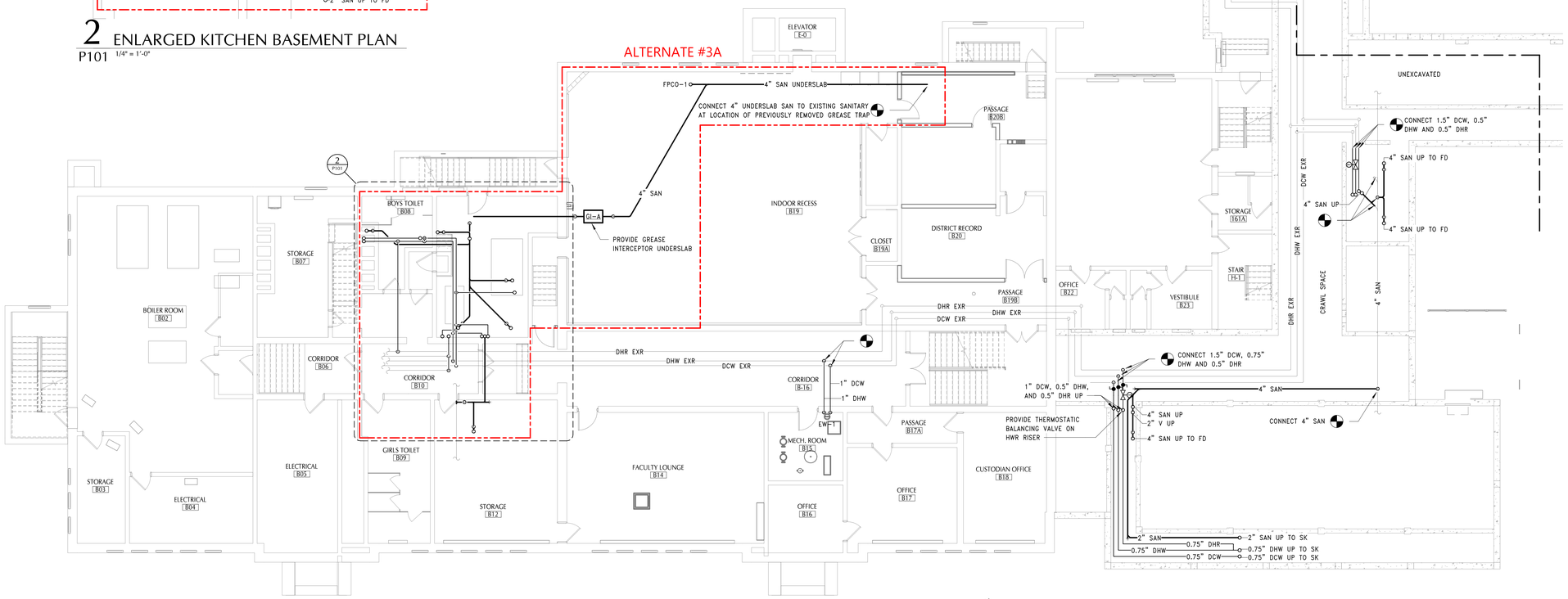
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ALTERNATE #3A



2 ENLARGED KITCHEN BASEMENT PLAN
P101 1/4" = 1'-0"

ALTERNATE #3A



1 GROUND FLOOR PLAN - AREA '1'
P101 1/8" = 1'-0"

KEY NOTES

KEY PLAN



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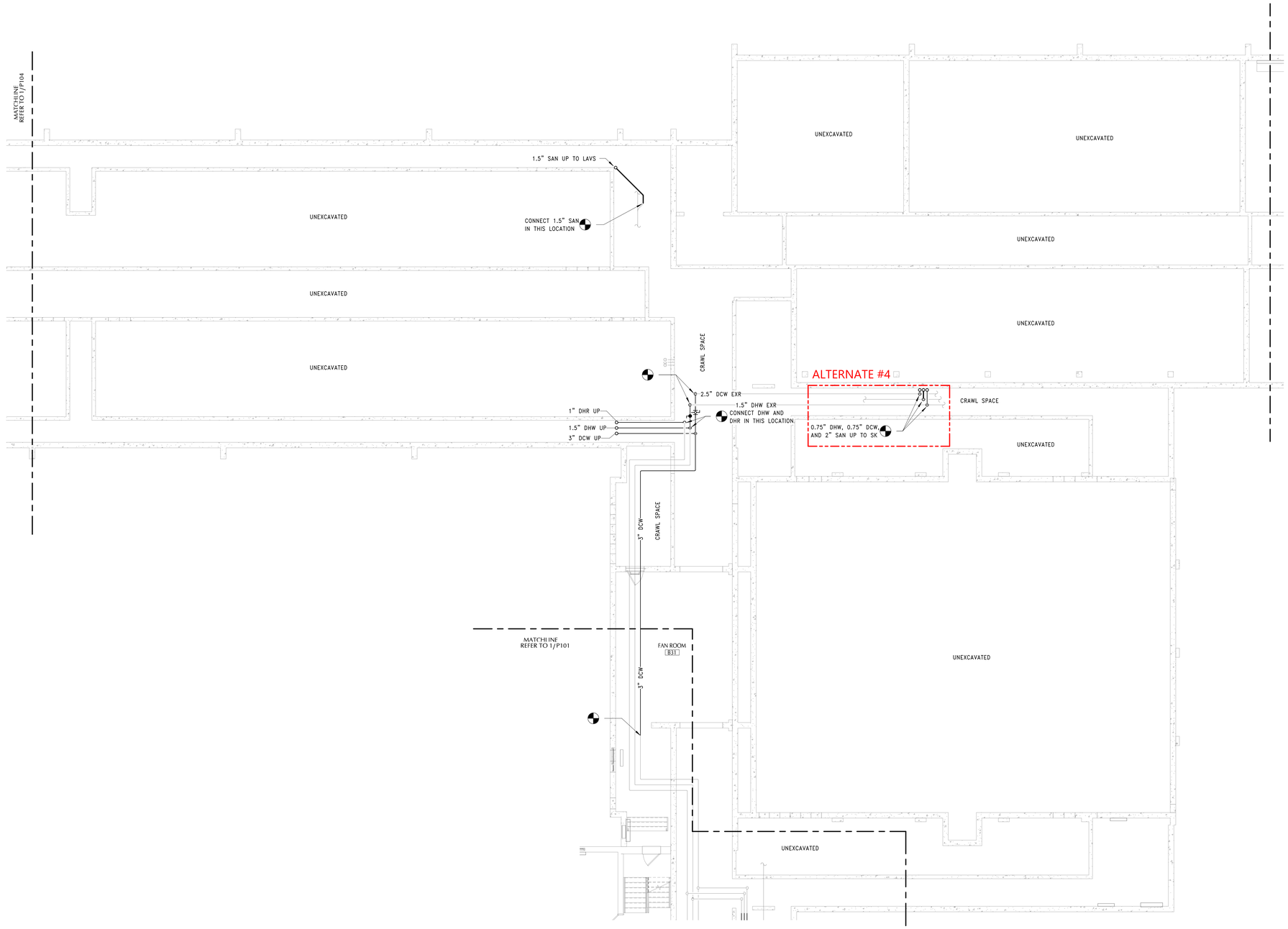
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Sheet Title
GROUND FLOOR PLAN - AREA '1'

Sheet No.
PES
P101

CONSTRUCTION DOCUMENTS

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1 CRAWL SPACE FLOOR PLAN - AREA '2'
P102 1/8" = 1'-0"

KEY NOTES

KEY PLAN



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PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

Project Title

ZACHARY ROBERT MADISON
STATE OF NEW YORK
097757
LICENSED PROFESSIONAL ENGINEER
Expires : 06/30/2025

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Sheet Title

CRAWL SPACE FLOOR PLAN - AREA '2'

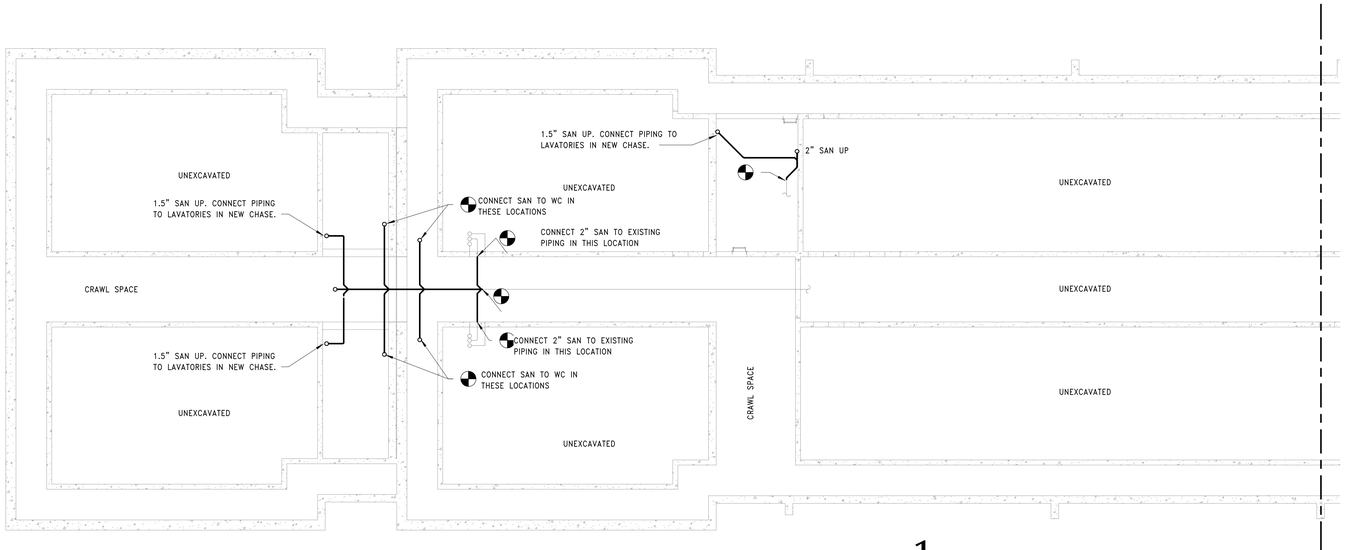
Sheet No.

PES
P102

CONSTRUCTION DOCUMENTS

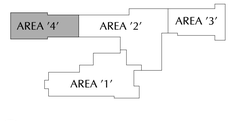
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KEY NOTES



1 CRAWL SPACE PLAN - AREA '4'
P104 1/8" = 1'-0"

KEY PLAN



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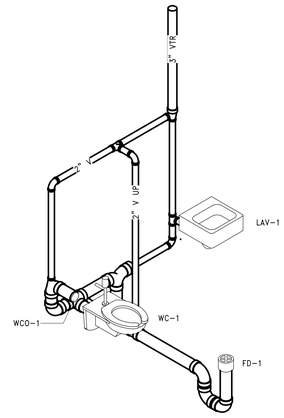
CRAWL SPACE PLAN - AREA '4'

Sheet No.

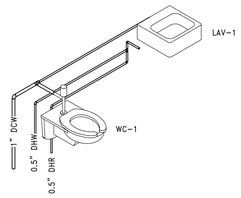
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P104

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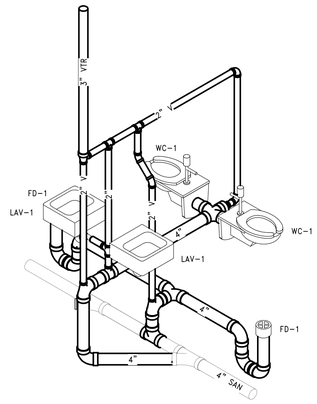
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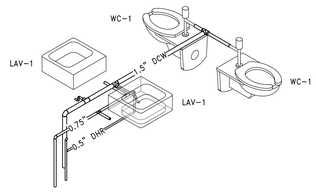
6 149E SANITARY RISER
P111



5 149E DOMESTIC RISER
P111

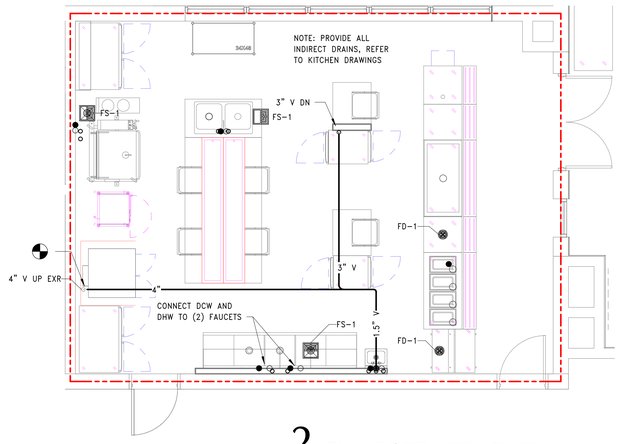


4 147A & 147B SANITARY RISER
P111



3 147A & 147B DOMESTIC RISER
P111

ALTERNATE #3C



2 ENLARGED KITCHEN PLAN
P111 1/4" = 1'-0"

1 FIRST FLOOR PLAN - AREA '1'
P111 1/8" = 1'-0"

KEY NOTES

KEY PLAN



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2020 CAPITAL PROJECT - PHASE 3

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097757
LICENSED PROFESSIONAL ENGINEER
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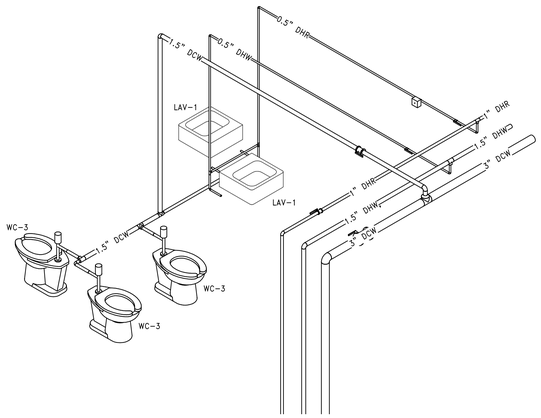
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Sheet Title
FIRST FLOOR PLAN - AREA '1'

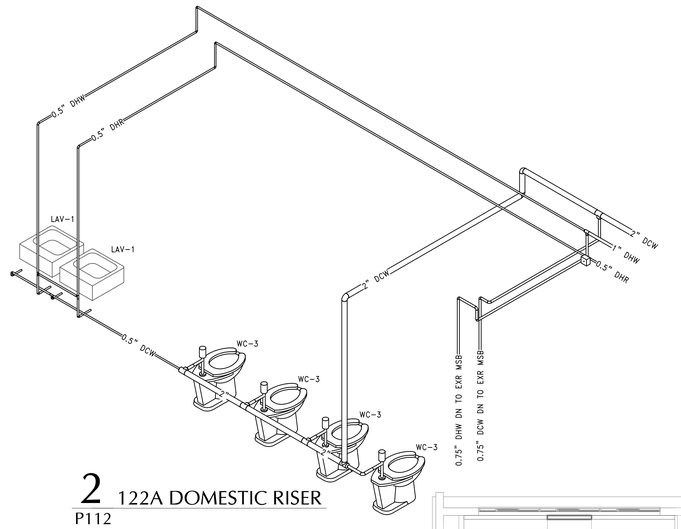
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PES
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CONSTRUCTION DOCUMENTS

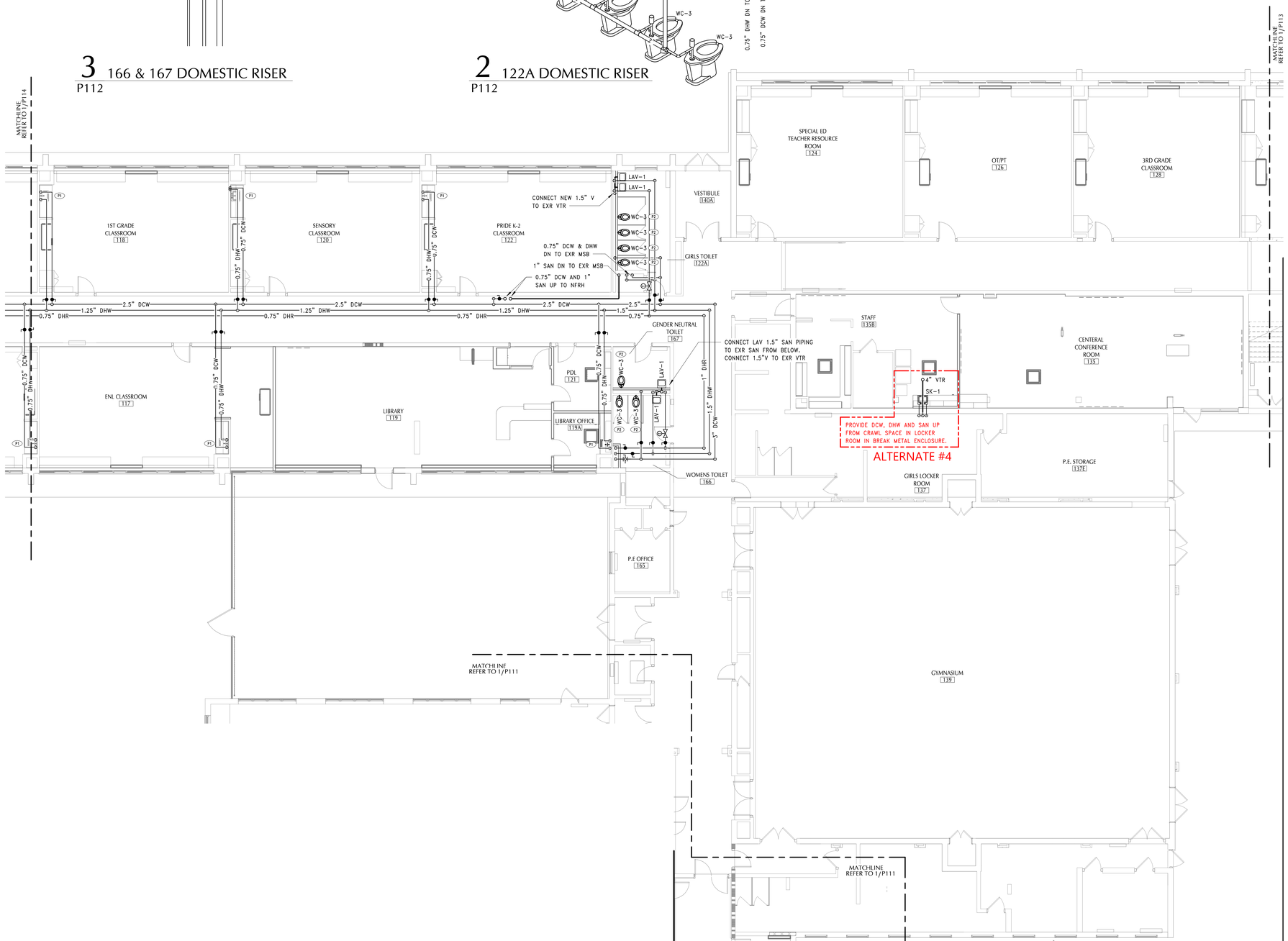
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3 166 & 167 DOMESTIC RISER
P112



2 122A DOMESTIC RISER
P112



1 FIRST FLOOR PLAN - AREA '2'
P112 1/8" = 1'-0"

KEY NOTES

P1	PROVIDE DCW AND DHW TO EXISTING SINK.
P2	CONNECT TO SANITARY AT FLOOR IN SAME LOCATION.

KEY PLAN



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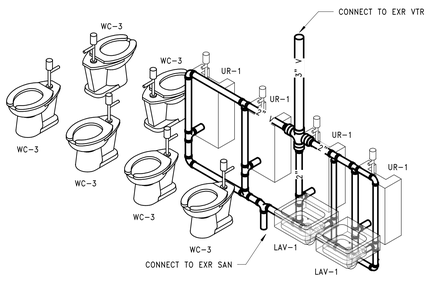
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Sheet Title
FIRST FLOOR PLAN - AREA '2'

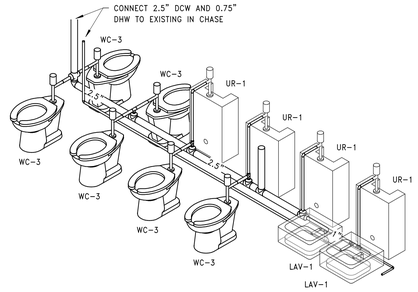
Sheet No.
PES P112

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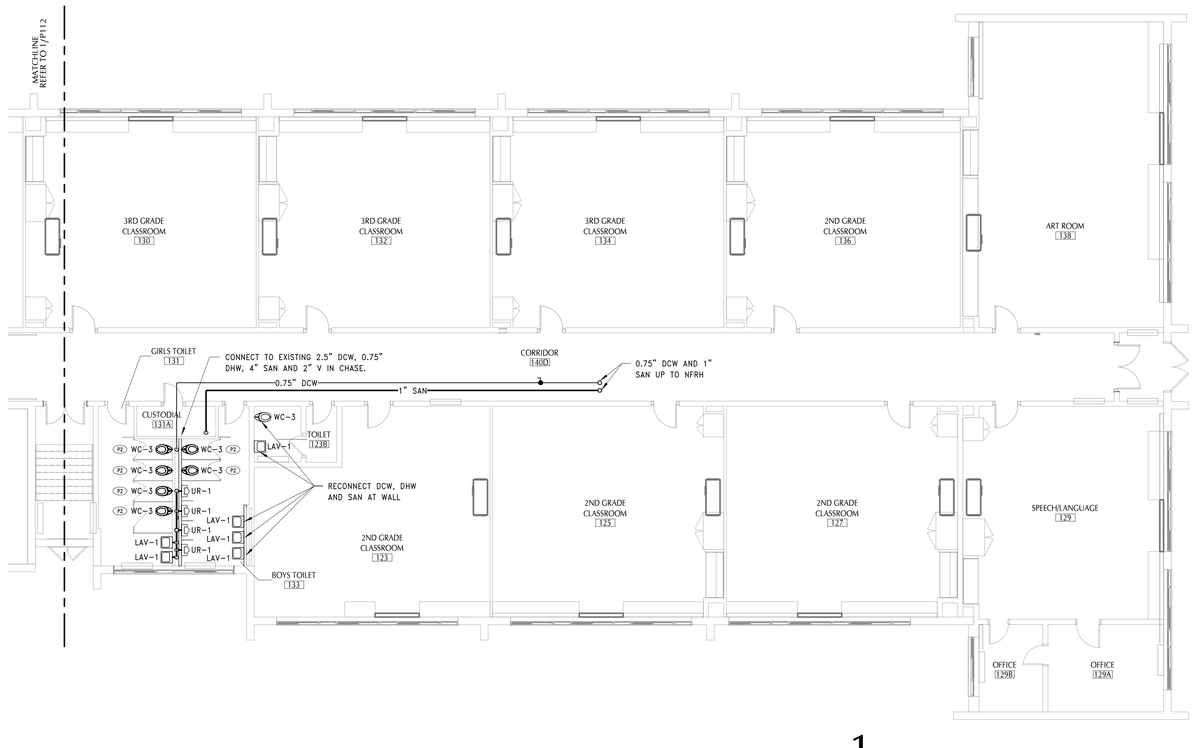
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3 131 & 133 SANITARY RISER
P113



2 131 &133 DOMESTIC RISER
P113

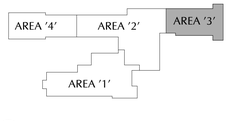


1 FIRST FLOOR PLAN - AREA '3'
P113 1/8" = 1'-0"

KEY NOTES

P2	CONNECT TO SANITARY AT FLOOR IN SAME LOCATION.

KEY PLAN



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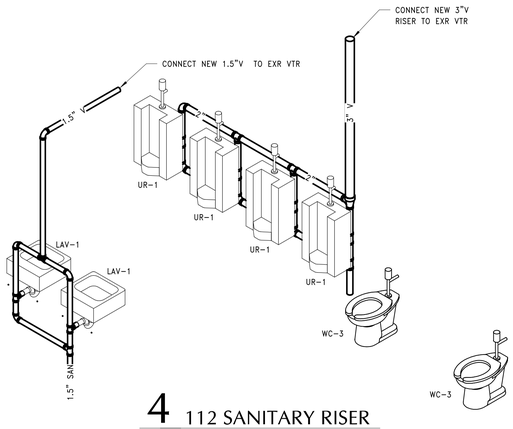
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Sheet Title
FIRST FLOOR PLAN - AREA '3'

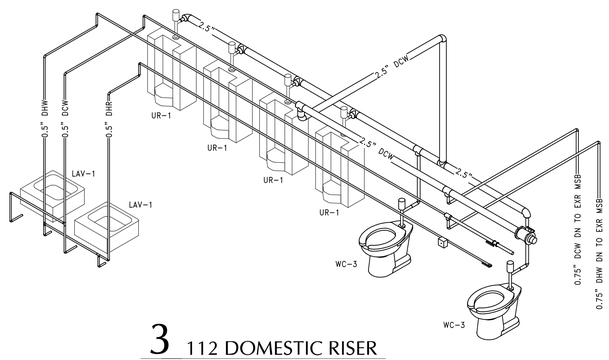
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PES
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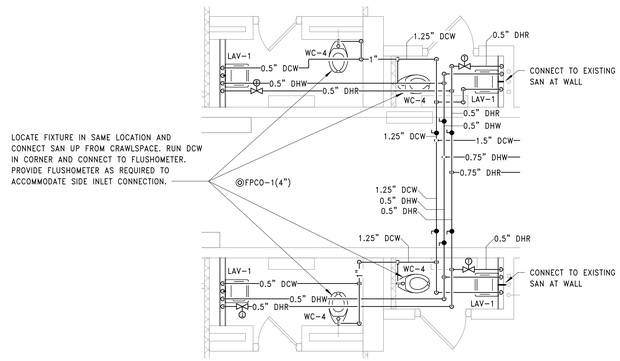
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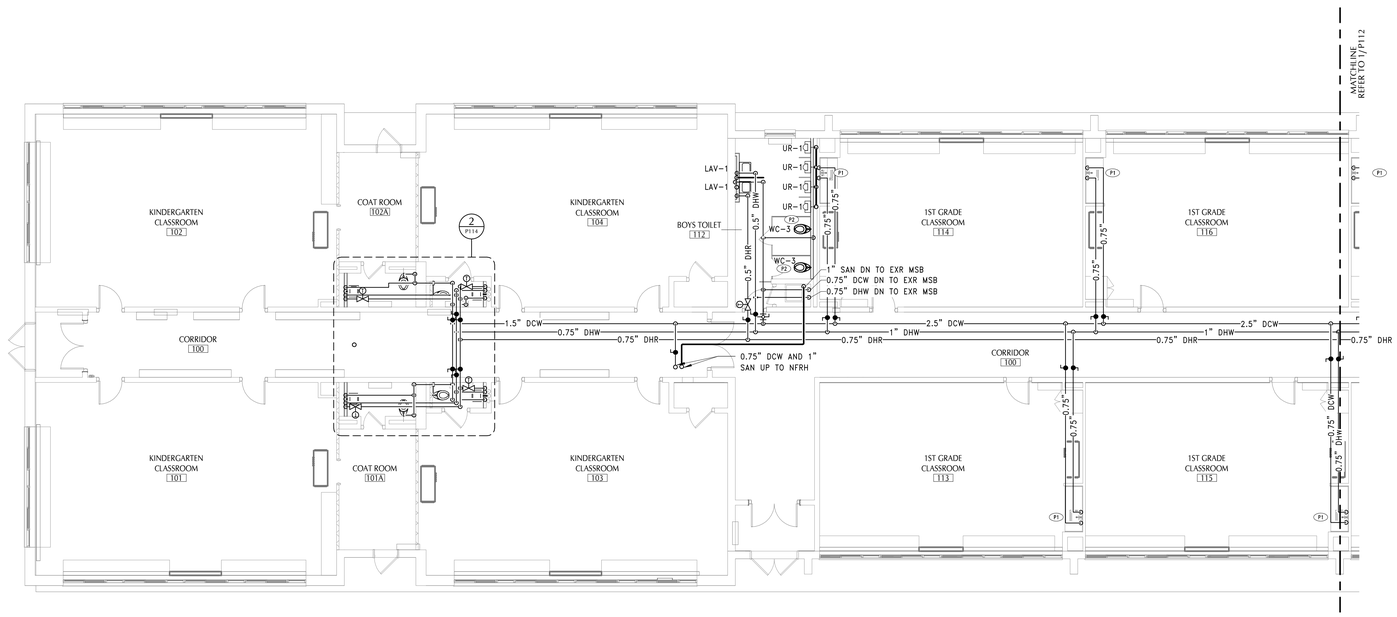
4 112 SANITARY RISER
P114



3 112 DOMESTIC RISER
P114



2 ENLARGED KINDERGARTEN BATHROOM PLAN
P114 1/4" = 1'-0"



1 FIRST FLOOR PLAN - AREA '4'
P114 1/8" = 1'-0"

KEY NOTES

P1	PROVIDE DCW AND DHW TO EXISTING SINK.
P2	CONNECT TO SANITARY AT FLOOR IN SAME LOCATION.

KEY PLAN



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Sheet Title

FIRST FLOOR PLAN - AREA '4'

Sheet No.

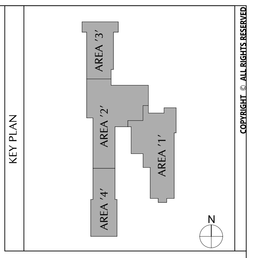
PES
P114

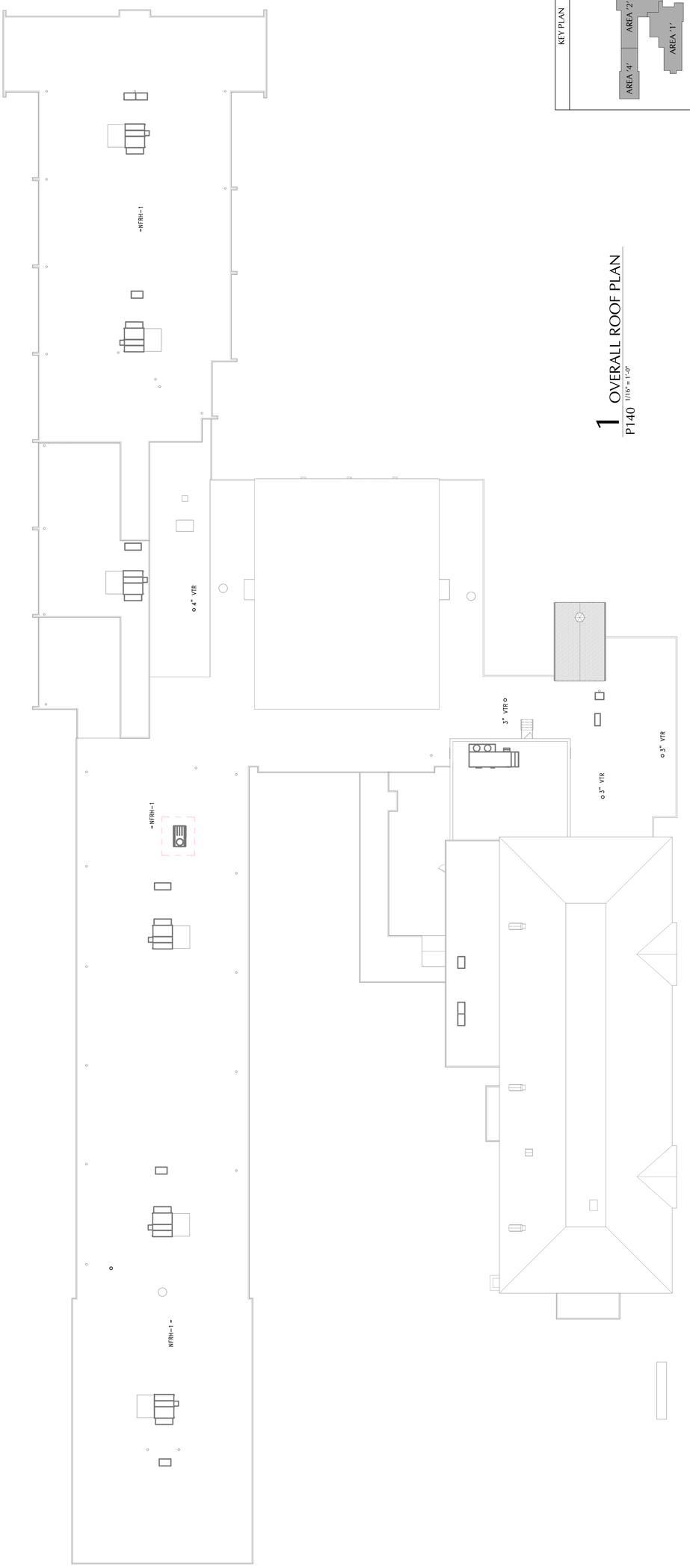
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KEY NOTES

KEY PLAN





1 OVERALL ROOF PLAN
P140 1/16" = 1'-0"

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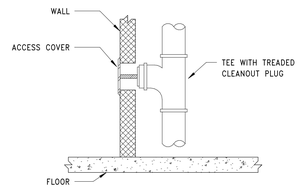
Sheet Title
ROOF PLAN - AREA '2'

Sheet No.
PES P140

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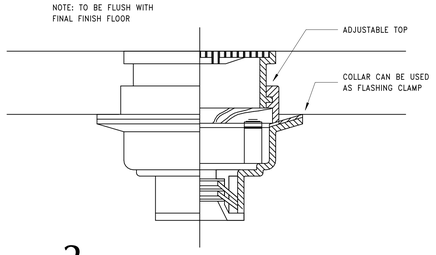
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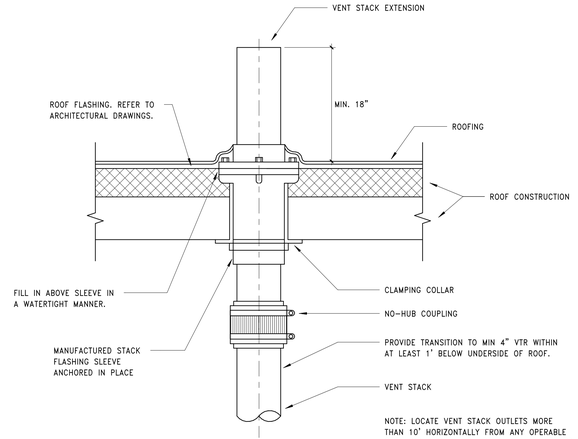


NOTES:
PROVIDE WALL CLEANOUT AT THE BASE OF EACH RISER.

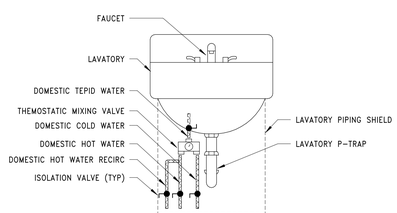
4 WALL CLEANOUT
P601 NTS



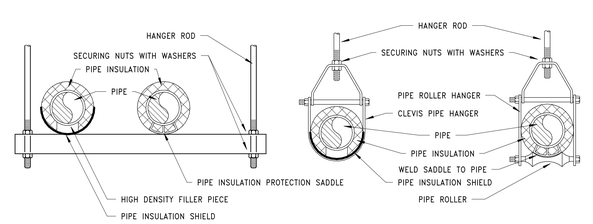
3 FLOOR DRAIN WITH ADJUSTABLE TOP
P601 NTS



2 VENT THRU ROOF
P601 NTS



5 LAVATORY PIPING SCHEMATIC
P601 1/4" = 1'-0"



1 DETAIL - PIPE HANGERS
P601 NTS

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2020 CAPITAL PROJECT - PHASE 3

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DETAILS

Sheet No.
PES
P601

CONSTRUCTION DOCUMENTS

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PLUMBING SPECIALTIES SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL
FD-1	FLOOR DRAIN	ZURN	ZS415BS
FPCO-1	FLOOR CLEAN OUT	ZURN	Z1400
FS-1	FLOOR SINK	ZURN	Z1750-Z
NFRH-1	NON-FREEZE ROOF HYDRANT	ZURN	Z1388XL
WCO-1	WALL CLEAN OUT	ZURN	Z1441

GREASE INTERCEPTOR SCHEDULE

TAG	TYPE	GPM	TOTAL VOLUME GALLONS	GREASE CAPACITY LBS	INLET in.	OUTLET in.	MANUFACTURER	MODEL	NOTES
GI-A	PDI	50	50	100	3	3	ZURN	Z1170	

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MATERIAL	MOUNTING	FAUCET / FLUSHOMETER	GPM/GPF	RUN OUT SIZES			MANUFACTURER	MODEL
						COLD WATER	HOT WATER	WASTE		
EW-1	EYEWASH	Stainless Steel, Polished	WALL	N/A	3.5	1"	1"	2"	GUARDIAN	G1814BC
LAV-1	LAVATORY	Vitreous China	WALL		0	0.5"	0.5"	1.5"	ZURN	Z5340
SK-1	SINK - 22"x19.5x6"	Stainless Steel, Polished	COUNTER TOP	MANUAL	2	0.75"	0.75"	2"	ELKAY	LRAD2219
UR-1	URINAL	Vitreous China	WALL	BATTERY	0.125	0.75"		2"	ZURN	Z5755
WC-1	WATER CLOSET	Vitreous China	WALL	BATTERY - FLUSH VALVE	1.28	1"		4"	ZURN	Z5615
WC-3	WATER CLOSET	Vitreous China	FLOOR	BATTERY FLUSH VALVE	1.28	1"		4"	ZURN	Z5655
WC-4	WATER CLOSET	Vitreous China	FLOOR	BATTERY FLUSH VALVE	1.28	1"		4"	ZURN	Z5655

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Sheet Title
SCHEDULES

Sheet No.
PES
P901

CONSTRUCTION DOCUMENTS

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GENERAL NOTES

1. THOROUGHLY COORDINATE ALL WORK ASSOCIATED WITH ALL DEVICES FURNISHED BY AND WORK EXECUTED BY "OTHER" CONTRACTORS.

2. BEFORE SUBMITTING SHOP DRAWINGS, VERIFY VOLTAGES AVAILABLE FOR MECHANICAL EQUIPMENT WITH ELECT. CONTRACTOR. VERIFY PROVISION OF ALL STARTERS & DISCONNECT SWITCHES.

3. BEFORE ROUGHING-IN WALLS, THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND ARCHITECT, THE LOCATIONS OF ALL THERMOSTATS AND SWITCHES.

4. BEFORE FABRICATING ANY DUCTWORK, COORDINATE LOCATION AND SIZE WITH PLUMBING PIPING, ELECTRICAL CONDUITS, RECESSED LIGHT FIXTURES, SPRINKLER PIPES, ETC. PLANS ARE SCHEMATIC AND ARE NOT SHOP DRAWINGS. ALSO SEE SPECIFICATIONS. VERIFY LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. VERIFY FINAL LOCATIONS WITH THE ARCHITECT.

5. ALL CONDUITS, PIPING & DUCTWORK SHALL BE CONCEALED ABOVE CEILINGS AND IN CHASES, UNLESS NOTED OTHERWISE. CONDUITS, PIPING AND DUCTWORK SHALL BE ROUTED THROUGH & BETWEEN BAR JOISTS & BETWEEN BEAMS (WITH OFFSETS AS NEEDED) WHERE REQUIRED BY SPACE RESTRICTIONS AND MATERIALS PROVIDED BY OTHER CONTRACTORS.

6. PROVIDE RADIUS AT ELBOWS AT ALL CHANGES IN DIRECTION IN SUPPLY, RETURN AND EXHAUST DUCTWORK WHERE POSSIBLE, AS PER THE SCHEMATIC DETAILS. WHERE CONDITIONS DO NOT PERMIT THE USE OF RADIUS ELBOWS, SQUARE ELBOWS SHALL BE USED WITH TURNING VANES. TURNING VANES SHALL BE AIRFOIL TYPE, ONLY, IN ACCORDANCE WITH SMACNA DETAILS.

7. PROVIDE MANUAL VOLUME DAMPER IN LOW PRESSURE BRANCH SUPPLY, RETURN OR EXHAUST DUCTS TO EACH GRILLE, DIFFUSER, REGISTER, ETC. UNLESS NOTED OTHERWISE (WHERE BRANCH DUCT IS LOCATED ABOVE HARD CEILING, PROVIDE O.B.D. IN AIR TERMINAL DEVICES.) DAMPER SHALL BE AS CLOSE TO MAIN DUCT AS POSSIBLE. PROVIDE MANUAL VOLUME DAMPERS AT OTHER LOCATIONS INDICATED ON PLANS AND AS DIRECTED BY SPECIFICATIONS. SEE SCHEMATIC DUCT DETAILS ON THE DRAWINGS. PROVIDE ACCESS TO ALL DAMPER QUADRANT LOCKS.

8. MECHANICAL CONTRACTOR SHALL CAREFULLY COORDINATE HIS WORK WITH THE DIMENSIONS OF THE CHASE WALLS, WITH OTHER CONTRACTORS, AND WITH THE GEN. CONTRACTOR. TO PROVIDE ADEQUATE CLEARANCES FOR ELBOWS, MITERED TEES, FIRE DAMPER SLEEVES, ETC., AS REQ'D. FOR FIRE PENETRATION SEALANTS OR DAMPERS.

9. INSTALL ALL DUCTS THRU ALL 1-HOUR, 2-HOUR, & 4-HOUR RATED WALLS AND ALL SMOKE PARTITIONS TO LEAVE A MINIMUM OF 2 INCHES ABOVE THE DUCTS, SUCH THAT THE GENERAL CONTRACTOR CAN SEAL THE WALL ABOVE THE DUCTS. DO NOT INSTALL FLEXIBLE DUCT THROUGH RATED WALLS OR SMOKE PARTITIONS.

10. ALL FIRE DAMPERS SHALL BE INSTALLED IN COMPLETE ACCORDANCE WITH THE MFR'S. & U.L. LISTING AND INSTALLATION INSTRUCTIONS. DAMPERS SHALL HAVE SPECIFIC U.L. LISTING FOR THE CONSTRUCTION IN WHICH THEY ARE INSTALLED. PROVIDE FIRE DAMPERS WITH BLADES OUT OF THE AIRSTREAM IN HIGH & MEDIUM PRESSURE DUCTS, AND ALL LOW PRESSURE DUCTS THAT ARE 10 INCHES, OR LESS, IN HEIGHT OR WIDTH. PROVIDE STATIC FIRE DAMPERS IN AIR SYSTEMS THAT SHUTDOWN ON SMOKE DETECTION. PROVIDE DYNAMIC FIRE DAMPERS IN AIR SYSTEMS THAT OPERATE FOR SMOKE REMOVAL.

11. PROVIDE HINGED ACCESS DOORS AT ALL MOTOR OPERATED DAMPERS, FIRE DAMPERS, UPSTREAM HEATING COILS, SMOKE DETECTORS, AND OTHER ITEMS REQUIRING MAINTENANCE. WHERE ACCESS DOOR IS ABOVE A HARD (INACCESSIBLE) CEILING, PROVIDE 24"x24" ACCESS DOOR IN CEILING (MILCOR STYLE DW, MOD. 3203-019 OR APPROVED EQUAL)

12. PIPE, CONDUIT AND DUCT OPENINGS THROUGH WALLS AND SLABS AROUND AND ABOVE MECHANICAL EQUIPMENT ROOMS SHALL BE PACKED WITH MINERAL WOOL AND SEALED.

13. ALL PIPING, CONDUIT AND DUCT OPENINGS IN RATED PARTITIONS AND FLOORS SHALL BE SEALED PER THE SPECIFICATIONS AND FIRE PENETRATION SYSTEM SCHEDULE.

14. PROVIDE ESCUTCHEON PLATES WHERE DUCTS OR PIPES PENETRATE CEILINGS OR WALLS IN FINISHED AREAS & WHERE EXPOSED TO VIEW. ESCUTCHEONS FOR DUCTS SHALL BE CONSTRUCTED OF THE SAME MATERIAL AS DUCT. PIPE ESCUTCHEONS SHALL BE CHROME-PLATED BRASS.

15. ALL DUCT SIZES SHOWN REPRESENT THE FREE AREA OF THE DUCT.

16. PROVIDE ALL AUXILIARY STEEL REQUIRED FOR PIPING AND EQUIPMENT SUPPORT.

17. ROUND BRANCH DUCT CONNECTIONS TO TRUNK DUCTWORK SHALL BE BELLMOUTH CONFIGURATIONS, EXCEPT DUCTWORK DOWNSTREAM OF VARIABLE VOLUME TERMINAL UNITS MAY HAVE SPIN-IN TAPS WITH VOLUME DAMPERS.

18. MOUNT ALL THERMOSTATS, CO2 SENSORS AND SWITCHES AT 48" ABOVE FINISHED FLOOR TO THE CENTERLINE OF THE OPERABLE PART OF MECHANISM (NOT TO BOTTOM OF UNIT).

19. ALL CONCRETE EQUIPMENT PADS ARE TO BE 6" THICK AND EXTEND 6" BEYOND THE BASE OF THE UNIT/UNITS IT SERVES.

20. THE ANNULAR SPACE AROUND PENETRATING DUCT IS PROTECTED WITH AN APPROVED NONCOMBUSTIBLE MATERIAL THAT RESISTS THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION.

SYMBOLS

	PROPOSED WORK (THICK LINE)
	EXISTING (HALFTONE, THIN LINE)
	DEMOLITION WORK (DASHED, THICK LINE)
	POINT OF CONNECT/DISCONNECT
	CONTINUATION
	SUPPLY DUCT RISE
	RETURN DUCT RISE
	EXHAUST DUCT RISE
	DUCT WORK
	LINED DUCTS
	FLEX DUCT
	RISE UP
	DROP DOWN
	T UP
	T DOWN
S	SWITCH
B	BOILER SHUT DOWN
G	EMERGENCY GAS SHUT DOWN
GS	GAS SENSOR
CD	CARBON DIOXIDE SENSOR
CO	CARBON MONOXIDE SENSOR
PS	PRESSURE SENSOR
TS	TEMPERATURE SENSOR
T	THERMOSTAT
H	HUMIDISTAT
	FIRE DAMPER
	SMOKE DAMPER
	FIRE/SMOKE DAMPER
SD	SMOKE DETECTOR
	MOTORIZED DAMPER
	VOLUME DAMPER
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	MANUAL BALANCING VALVE
	PIC VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	RELIEF VALVE
	SOLENOID VALVE
	STRAINER
	STRAINER WITH BLOWDOWN BALL VAVLE
	UNION
	MANUAL AIR VENT
	TRIPLE DUTY VALVE
>	FLOW DIRECTION
	INLINE PUMP
	AUTOMATIC AIR VENT
	PRESSURE GAUGE
	THERMOMETER
	PETES PLUG

SYSTEM ABBREVIATIONS

—CD—	CONDENSATE
—CHWR—	CHILLED WATER RETURN
—CHWS—	CHILLED WATER SUPPLY
—CWR—	CONDENSER WATER RETURN
—CWS—	CONDENSER WATER SUPPLY
—DTR—	DUAL TEMPERATURE RETURN
—DTS—	DUAL TEMPERATURE SUPPLY
—E—	EXHAUST
—FOR—	FUEL OIL RETURN
—FOS—	FUEL OIL SUPPLY
—GCHR—	GLYCOL CHILLED WATER RETURN
—GCHS—	GLYCOL CHILLED WATER SUPPLY
—GHWR—	GLYCOL HOT WATER RETURN
—GHWS—	GLYCOL HOT WATER SUPPLY
—HMW—	MAKE-UP WATER
—HPS—	HIGH PRESSURE STEAM
—HRWR—	HEAT RECOVERY WATER RETURN
—HRWS—	HEAT RECOVERY WATER SUPPLY
—HWR—	HEATING HOT WATER RETURN
—HWS—	HEATING HOT WATER SUPPLY
—LPS—	LOW PRESSURE STEAM
—MPS—	MEDIUM PRESSURE STEAM
—RL—	REFRIGERANT LIQUID
—RS—	REFRIGERANT SUCTION
—RV—	REFRIGERANT RELIEF VENT
—SCD—	STEAM CONDENSATE

ABBREVIATIONS

ACU	AIR CONDITIONING UNIT
ACCU	AIR COOLED CONDENSING UNIT
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
ARCH	ARCHITECT / ARCHITECTURAL
AS	AIR SEPARATOR
AT	AIR TERMINAL UNIT
BAS	BUILDING AUTOMATION SYSTEM
BCU	BLOWER COIL
B	BOILER
BHP	BRAKE HORSEPOWER
BPHX	BRAISED PLATE HEAT EXCHANGER
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CON	CONDENSATE
CONV	CONVECTOR
CTW	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
DB	DECIBELS
DDC	DIRECT DIGITAL CONTROLS
DS	DUCT SILENCER
DWET	DOMESTIC WATER EXPANSION TANK
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EFT	ENTERING FLUID TEMPERATURE
ERU	ENERGY RECOVERY UNIT
ERV	ENERGY RECOVERY VENTILATOR
ERW	ENERGY RECOVERY WHEEL
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EXR	EXISTING TO REMAIN
F	FAN
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPERES
FOB	FLAT ON BOTTOM
FPD	FLUID PRESSURE DROP
FPM	FEET PER MINUTE
FTR	FIN TUBE RADIATOR
GPM	GALLONS PER MINUTE
GV	GRAVITY VENTILATOR
HC	HEATING COIL
HP	HORSEPOWER
HVU	HEATING/VENTILATION UNIT
IN	INCH
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LFT	LEAVING FLUID TEMPERATURE
MAU	MAKE UP AIR UNIT
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MFS	MAX FUSE SIZE
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MPS	MEDIUM PRESSURE STEAM (16-59 PSIG)
NOM	NOMINAL
OA	OUTSIDE AIR
ODP	OXYGEN DEPLETION SENSOR
P	PUMP
PD	PRESSURE DROP
PFHX	PLATE & FRAME HEAT EXCHANGER
PSIG	POUNDS PER SQUARE INCH WATER GAUGE
RA	RETURN AIR
RFM	RADIANT FLOOR MANIFOLD
RP	RADIANT PANEL
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SP	STATIC PRESSURE
STHX	SHELL & TUBE HEAT EXCHANGER
UH	UNIT HEATER
UV	UNIT VENTILATOR
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB TEMPERATURE
WG	WATER GAUGE

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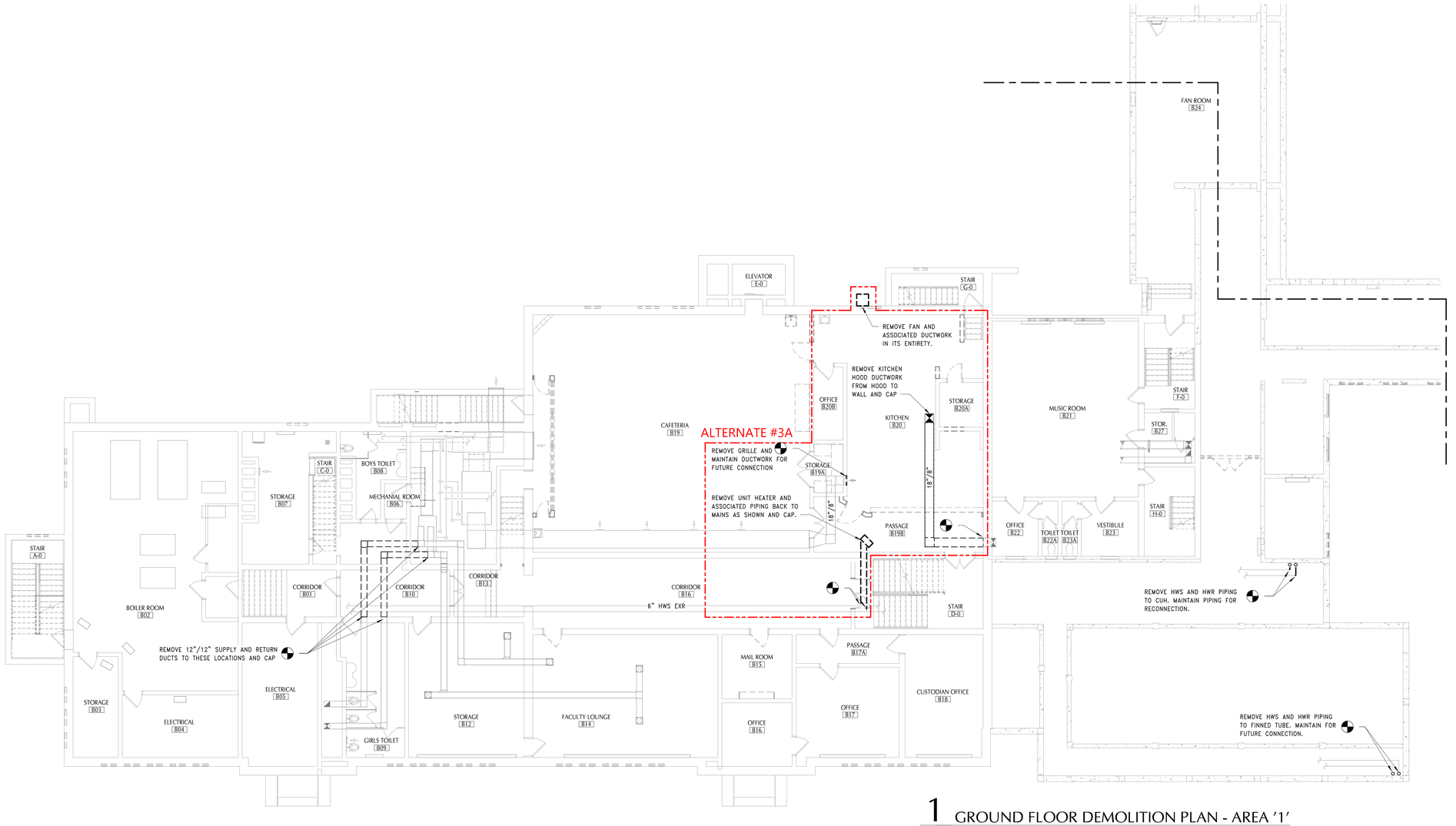
GENERAL NOTES, LEGENDS AND ABBREVIATIONS

Sheet No.

PES MG000

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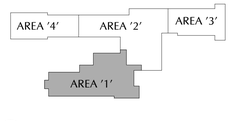


1 GROUND FLOOR DEMOLITION PLAN - AREA '1'
MD101 1/8" = 1'-0"

SHEET NOTES

KEY NOTES

KEY PLAN



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097797
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GROUND FLOOR DEMOLITION PLAN - AREA '1'

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MD101

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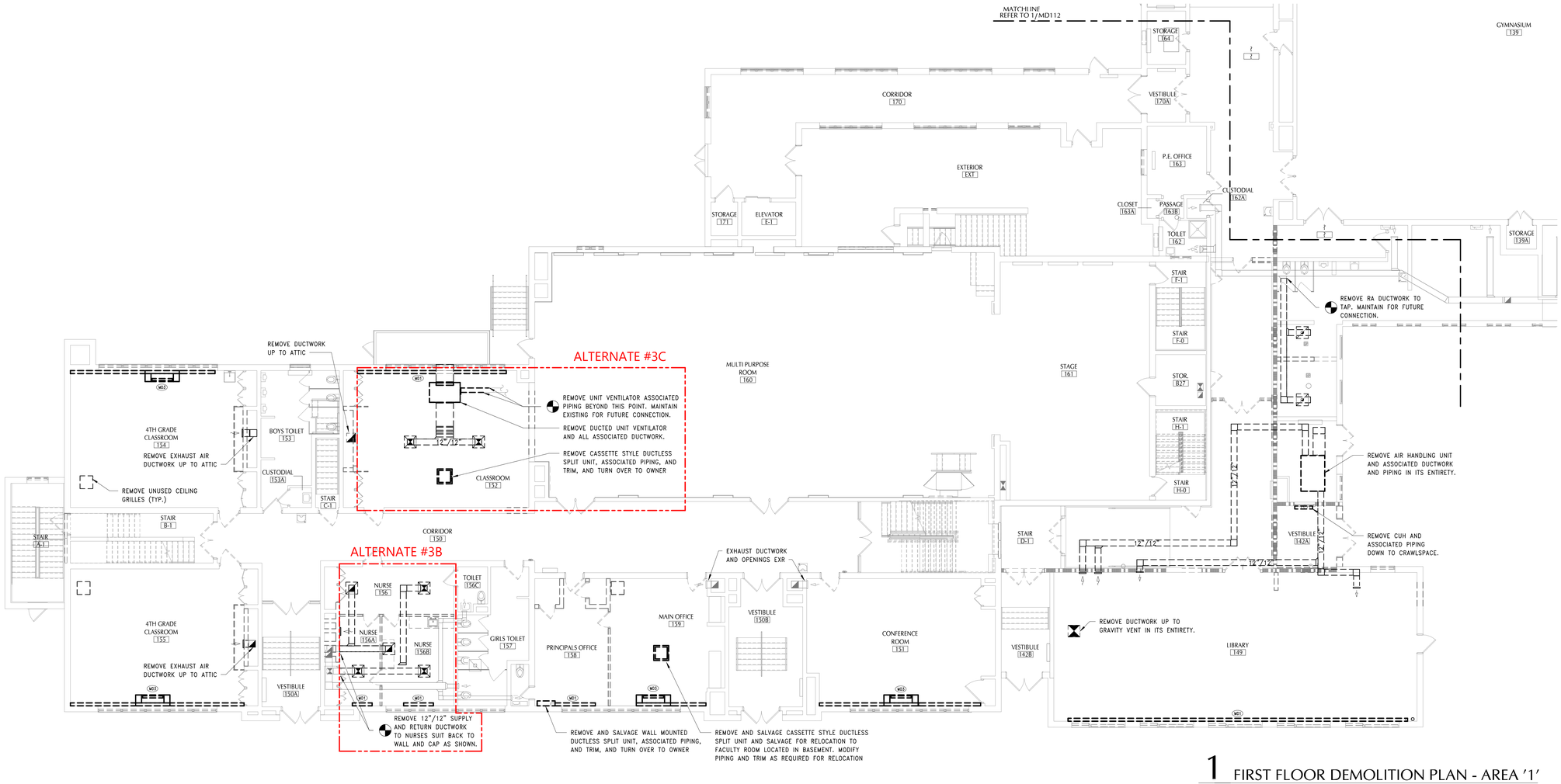
SHEET NOTES

ALTERNATE 3B:
- ACCEPTED: PROVIDE SCOPE AS SHOWN WITHIN BOUNDARY.
- NOT ACCEPTED: REMOVE DUCTWORK LOCATED WITHIN BOUNDARY, EXISTING FINNED TUBE TO REMAIN.

ALTERNATE 3C:
- ACCEPTED: PROVIDE SCOPE AS SHOWN WITHIN BOUNDARY.
- NOT ACCEPTED: NO SCOPE.

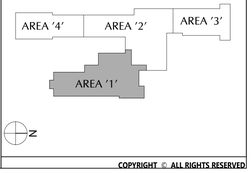
KEY NOTES

MD1	REMOVE FINNED TUBE AND MAINTAIN PIPING FOR FUTURE CONNECTION.
MD3	REMOVE UNIT VENTILATOR AND ASSOCIATED FINNED TUBE AND PIPING BACK TO FLOOR. MAINTAIN PIPING FOR FUTURE CONNECTION.



1 FIRST FLOOR DEMOLITION PLAN - AREA '1'
MD111 1/8" = 1'-0"

KEY PLAN



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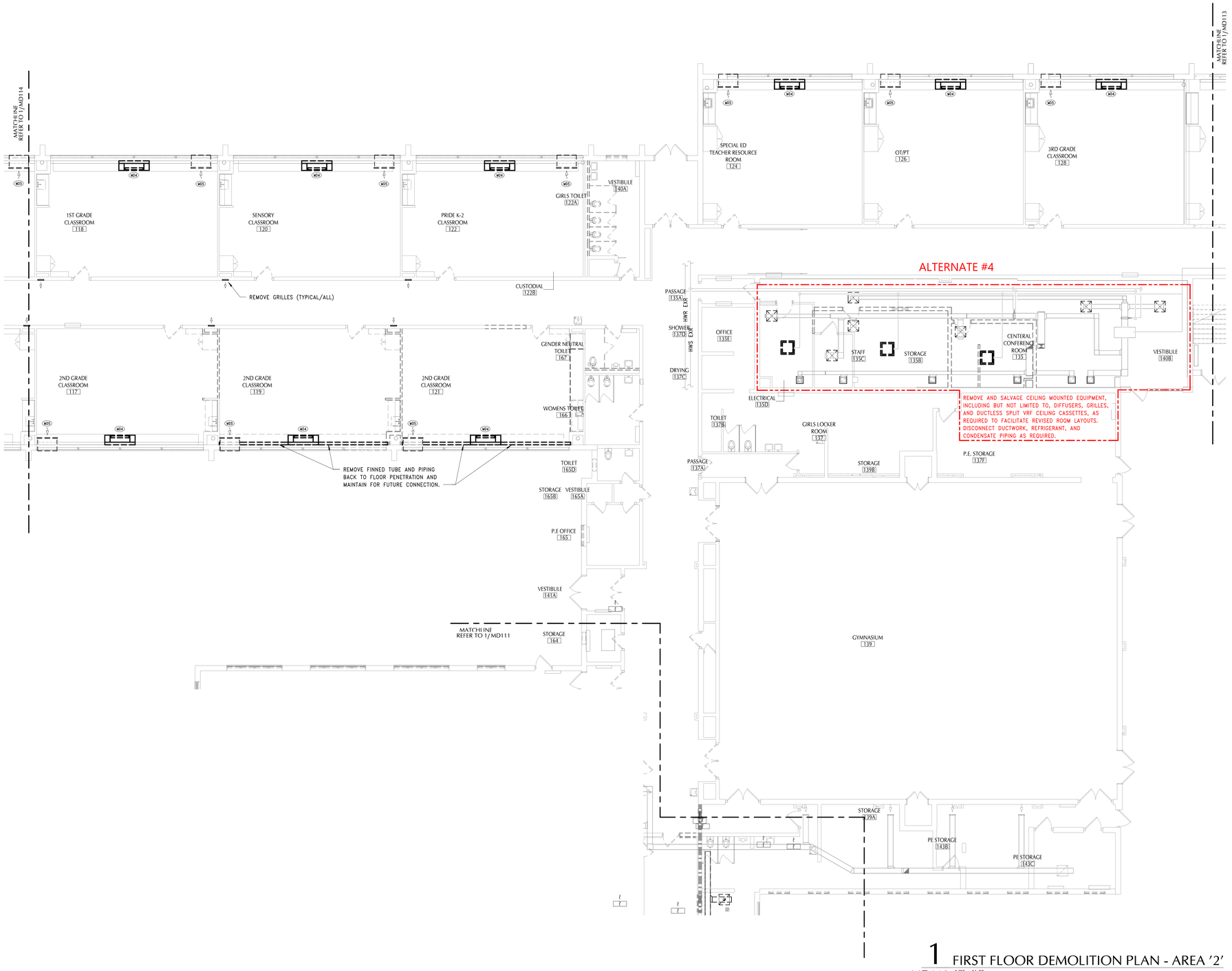
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FIRST FLOOR DEMOLITION PLAN - AREA '1'

Sheet No.
PES MD111

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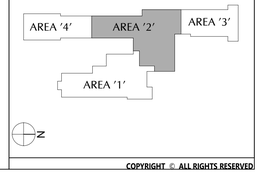


1 FIRST FLOOR DEMOLITION PLAN - AREA '2'
MD112 1/8" = 1'-0"

KEY NOTES

MD4	REMOVE UNIT VENTILATOR AND ASSOCIATED PIPING. MAINTAIN PIPING FOR FUTURE CONNECTION.
MD5	REMOVE 44/16 RELIEF GRILLE, MOTORIZED DAMPER AND DUCTWORK.

KEY PLAN



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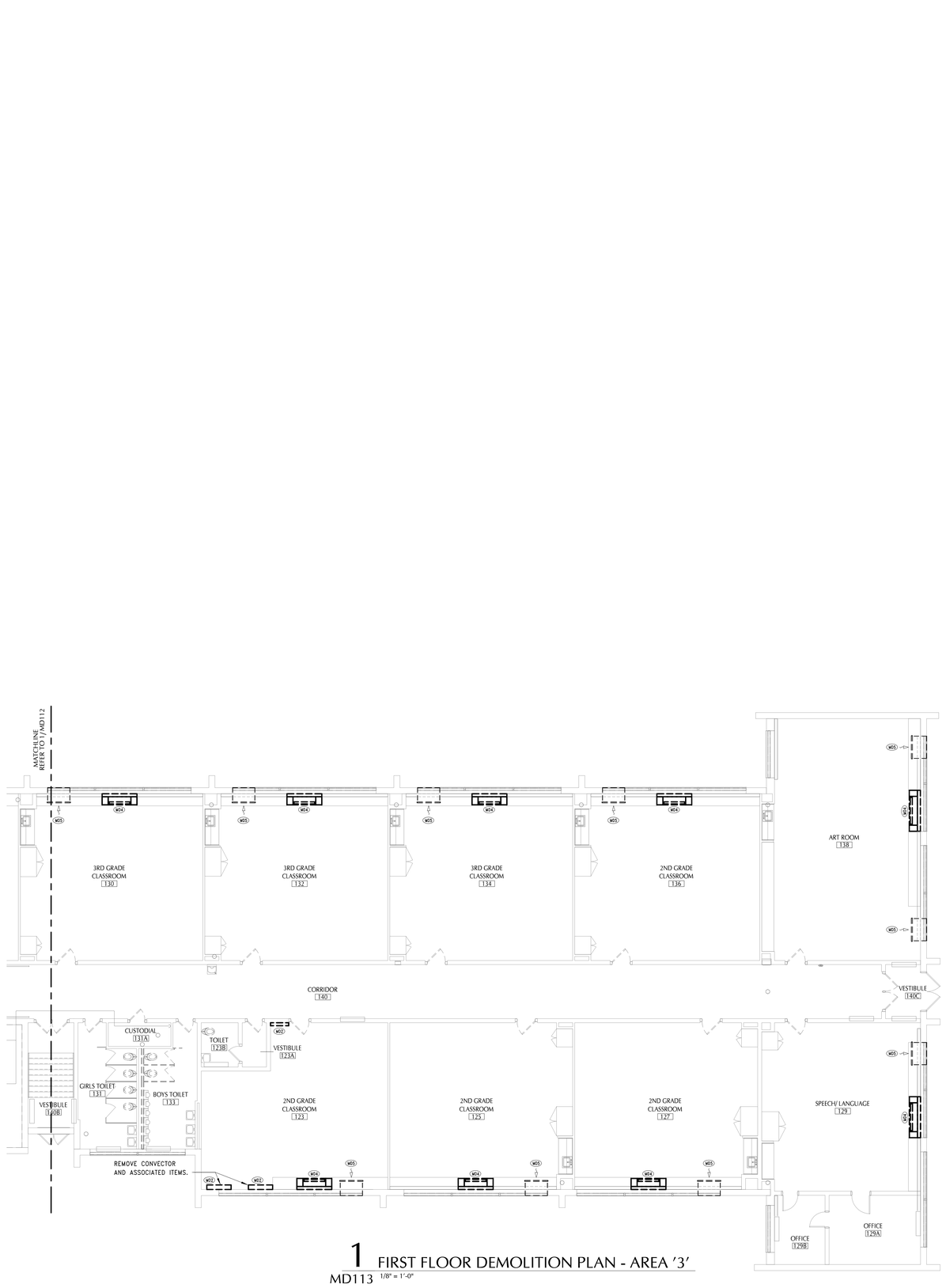
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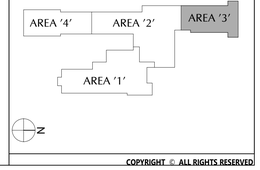
KEY NOTES

MD2	REMOVE FINNED TUBE AND ASSOCIATED PIPING BACK TO MAINS AS SHOWN.
MD4	REMOVE UNIT VENTILATOR AND ASSOCIATED PIPING. MAINTAIN PIPING FOR FUTURE CONNECTION.
MD5	REMOVE 44/16 RELIEF GRILLE, MOTORIZED DAMPER AND DUCTWORK.



1 FIRST FLOOR DEMOLITION PLAN - AREA '3'
MD113 1/8" = 1'-0"

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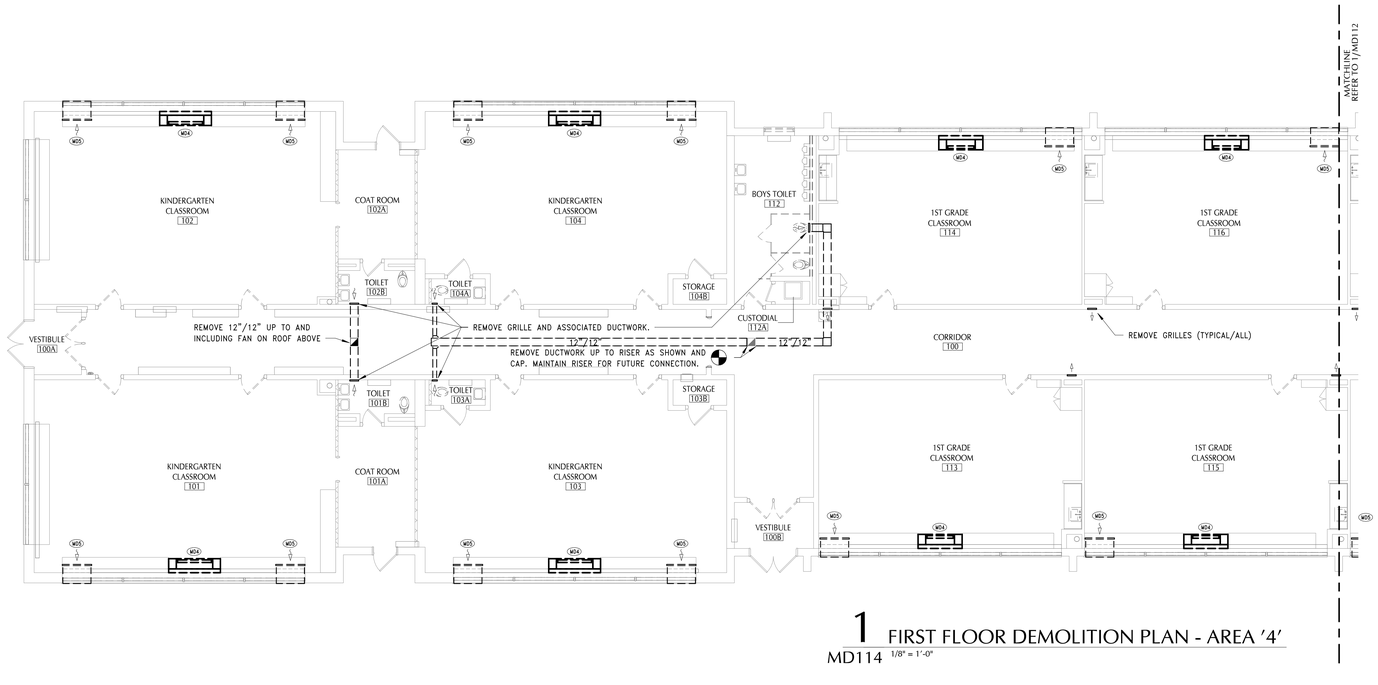
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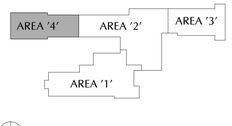
KEY NOTES

MD4	REMOVE UNIT VENTILATOR AND ASSOCIATED PIPING. MAINTAIN PIPING FOR FUTURE CONNECTION.
MD5	REMOVE 44/16 RELIEF GRILLE, MOTORIZED DAMPER AND DUCTWORK.



1 FIRST FLOOR DEMOLITION PLAN - AREA '4'
MD114 1/8" = 1'-0"

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FIRST FLOOR DEMOLITION PLAN - AREA '4'

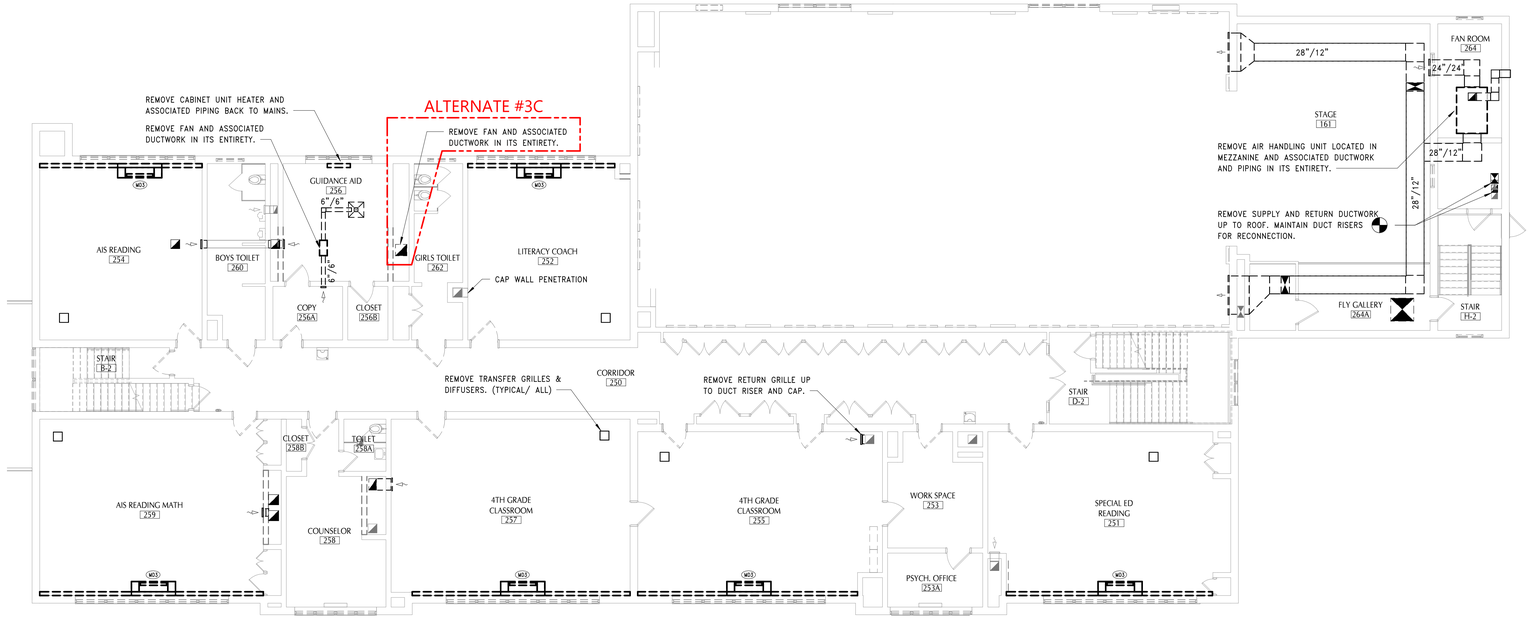
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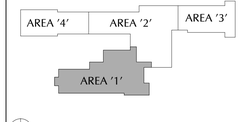
KEY NOTES

MD3	REMOVE UNIT VENTILATOR AND ASSOCIATED FINNED TUBE AND PIPING BACK TO FLOOR. MAINTAIN PIPING FOR FUTURE CONNECTION.



1 SECOND FLOOR DEMOLITION PLAN - AREA '1'
MD121 1/8" = 1'-0"

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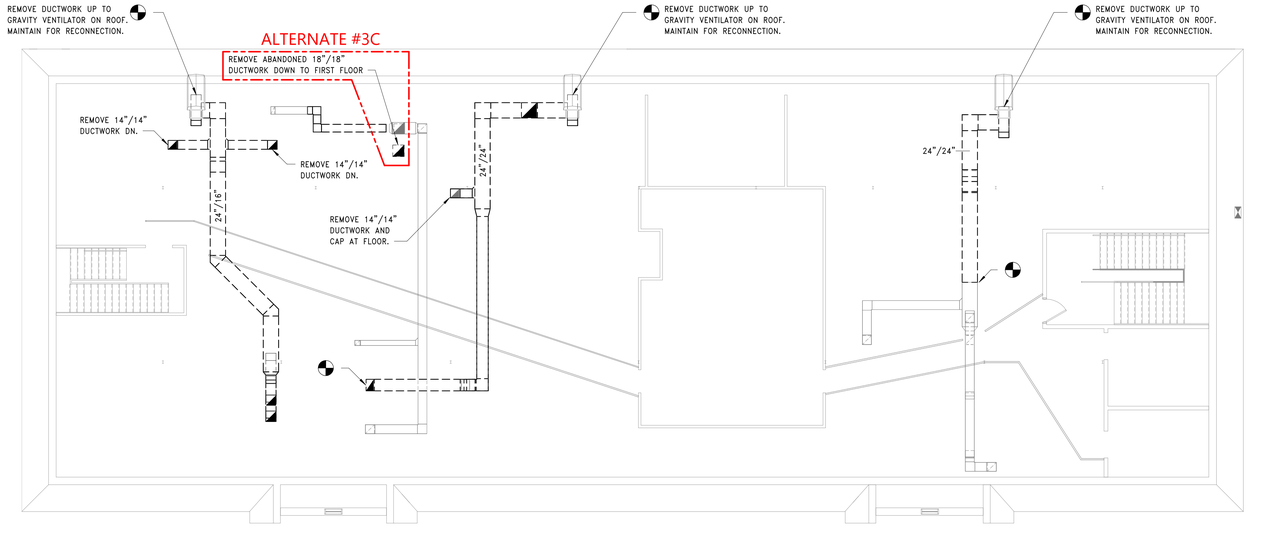
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SECOND FLOOR DEMOLITION PLAN - AREA '1'

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MD121

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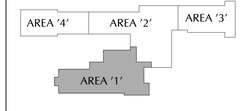
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KEY NOTES



1 ATTIC DEMOLITION PLAN - AREA '1'
MD131 1/8" = 1'-0"

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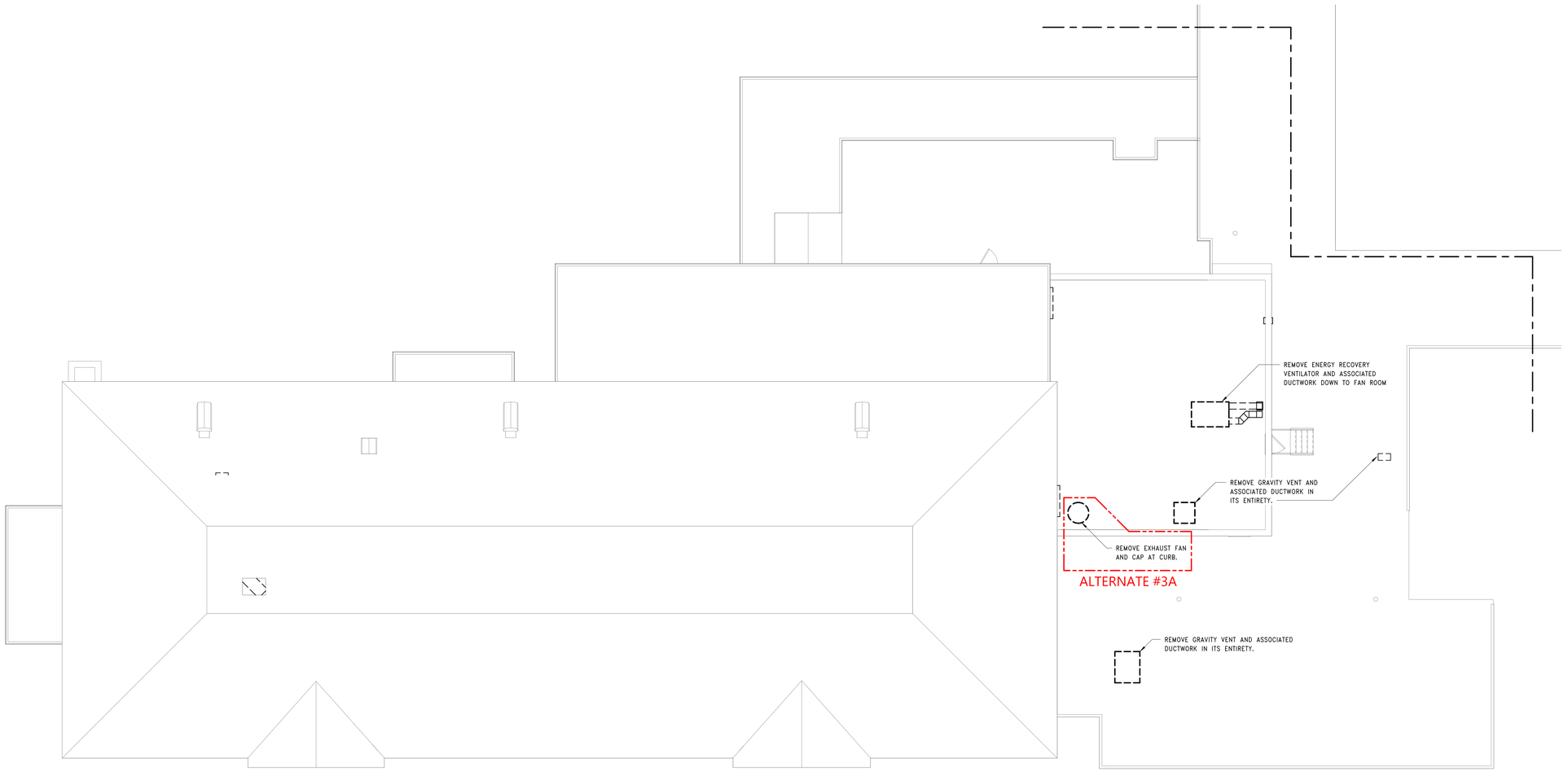
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Sheet Title
ATTIC DEMOLITION PLAN AREA '1'

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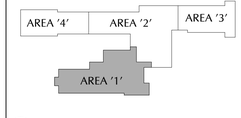
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1 DEMOLITION ROOF PLAN - AREA '1'
MD141 1/8" = 1'-0"

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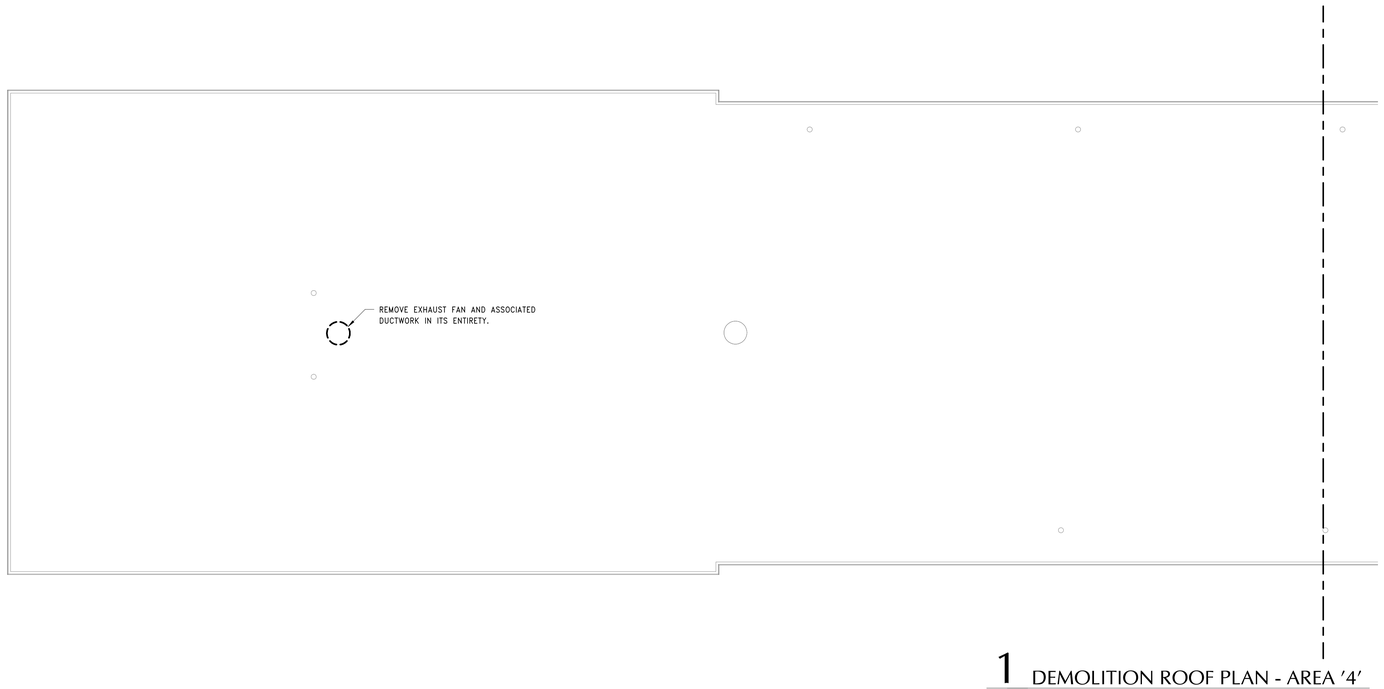
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ROOF DEMOLITION PLAN AREA '1'

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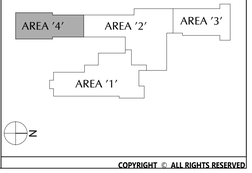
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1 DEMOLITION ROOF PLAN - AREA '4'
MD144 1/8" = 1'-0"

KEY NOTES

KEY PLAN



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2020 CAPITAL PROJECT - PHASE 3

Project Title

ZACHARY ROBERT KLEIN
STATE OF NEW YORK
097797
LICENSED PROFESSIONAL ENGINEER
Expires : 06/30/2025

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Proj. #:	13-12-01-04-0-001-024
CSArch Proj. #:	208-2101.03
Issued for Bid:	11/03/23

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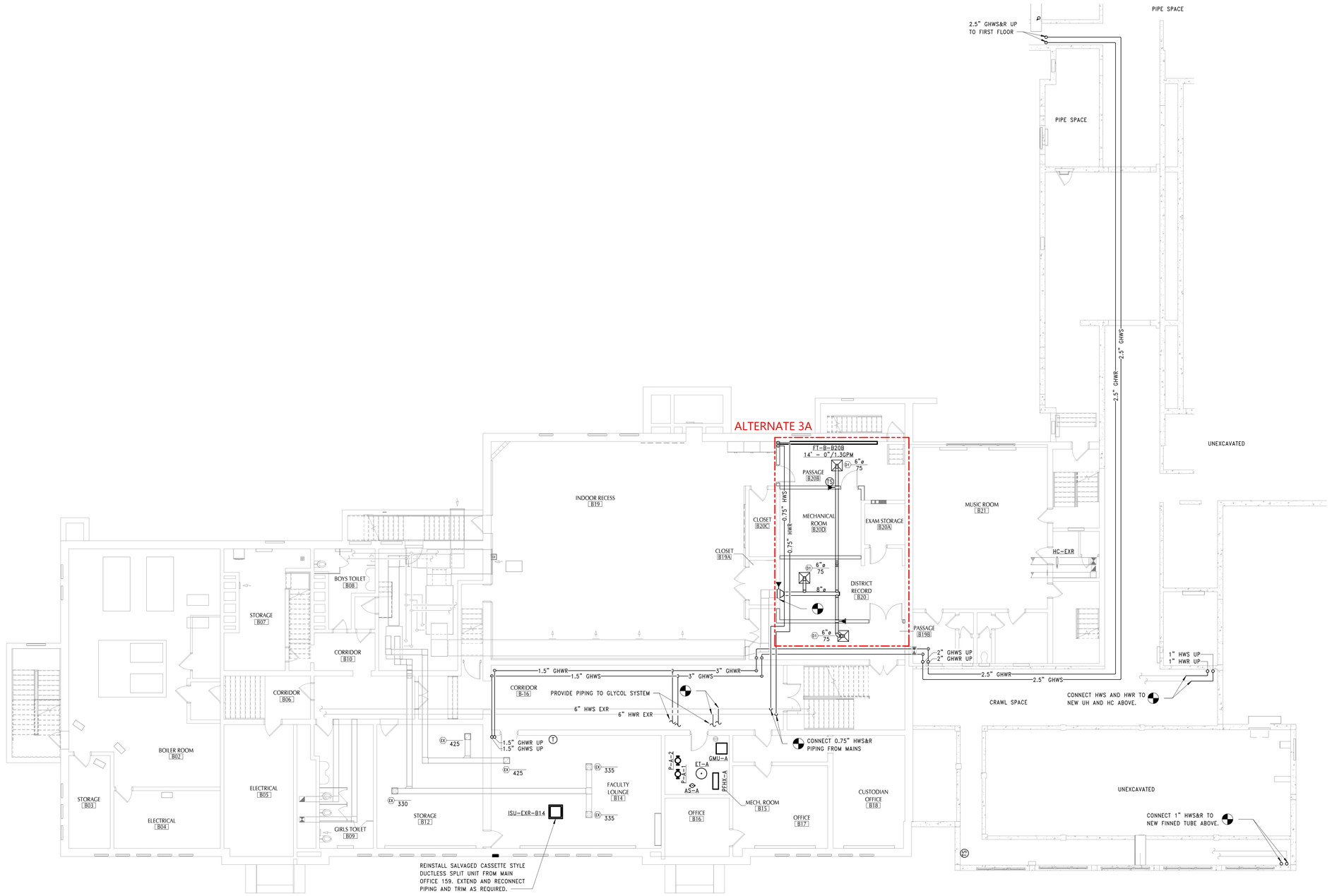
ROOF DEMOLITION PLAN AREA '4'

Sheet No.

PES
MD144

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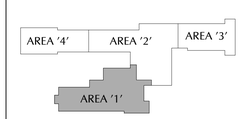


1 GROUND FLOOR PLAN - AREA '1'
M101 1/8" = 1'-0"

SHEET NOTES

KEY NOTES

KEY PLAN



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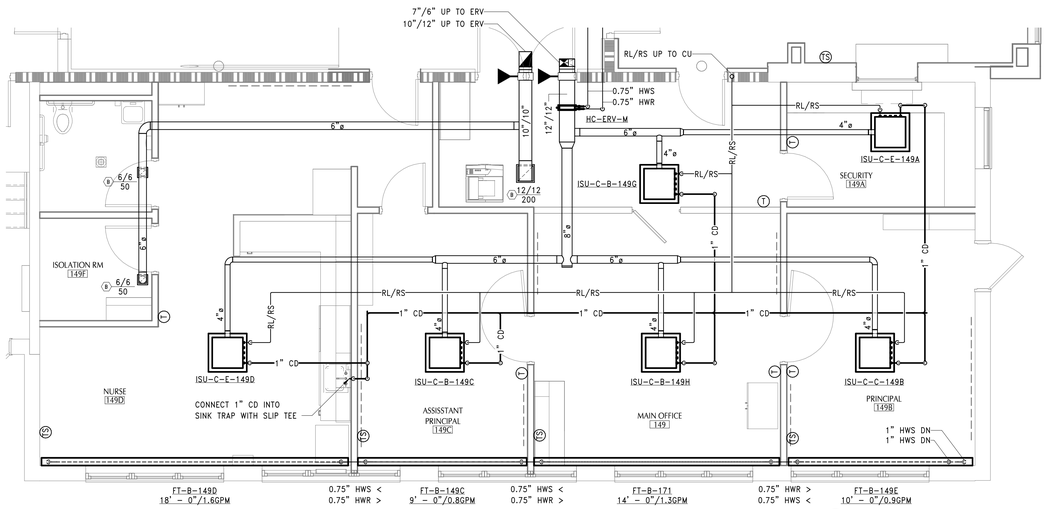
GROUND FLOOR PLAN - AREA '1'

Sheet No.

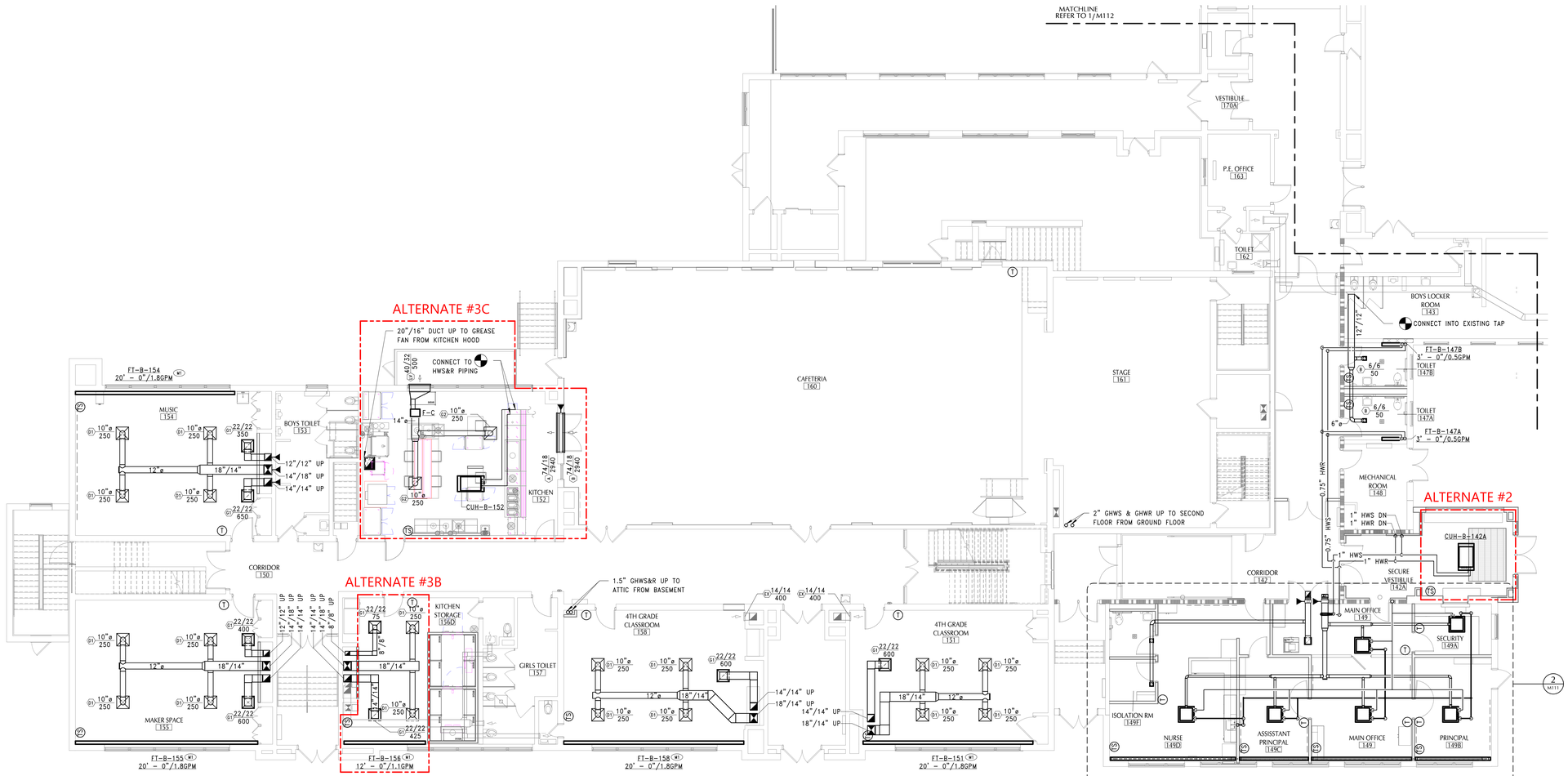
PES
M101

CONSTRUCTION DOCUMENTS

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2 ENLARGED FLOOR PLAN
M111 1/4" = 1'-0"



1 FIRST FLOOR PLAN - AREA '1'
M111 1/8" = 1'-0"

SHEET NOTES

ALTERNATE 2:
- ACCEPTED: PROVIDE SCOPE AS SHOWN WITHIN BOUNDARY.
- NOT ACCEPTED: PROVIDE SCOPE ASSOCIATED WITH CUH-B-142A INCLUDING BUT NOT LIMITED TO PIPING, LOCATE UNIT IN EXISTING VESTIBULE AND COORDINATE FINAL LOCATION IN FIELD.

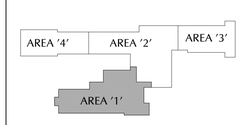
ALTERNATE 3B:
- ACCEPTED: PROVIDE SCOPE AS SHOWN WITHIN BOUNDARY.
- NOT ACCEPTED: PROVIDE DUCTWORK AND DIFFUSER SCOPE SHOWN WITHIN BOUNDARY AND COORDINATE WITH EXISTING NURSE'S SUITE LAYOUT, EXISTING FINNED TO REMAIN.

ALTERNATE 3C:
- ACCEPTED: PROVIDE SCOPE AS SHOWN WITHIN BOUNDARY.
- NOT ACCEPTED: PROVIDE SCOPE ASSOCIATED WITH F-C INCLUDING BUT NOT LIMITED TO DUCTWORK DIFFUSERS AND LOUVERS.

KEY NOTES

M1	PROVIDE FINNED TUBE IN SAME LOCATION AS EXISTING. CONNECT TO EXISTING PIPING.

KEY PLAN



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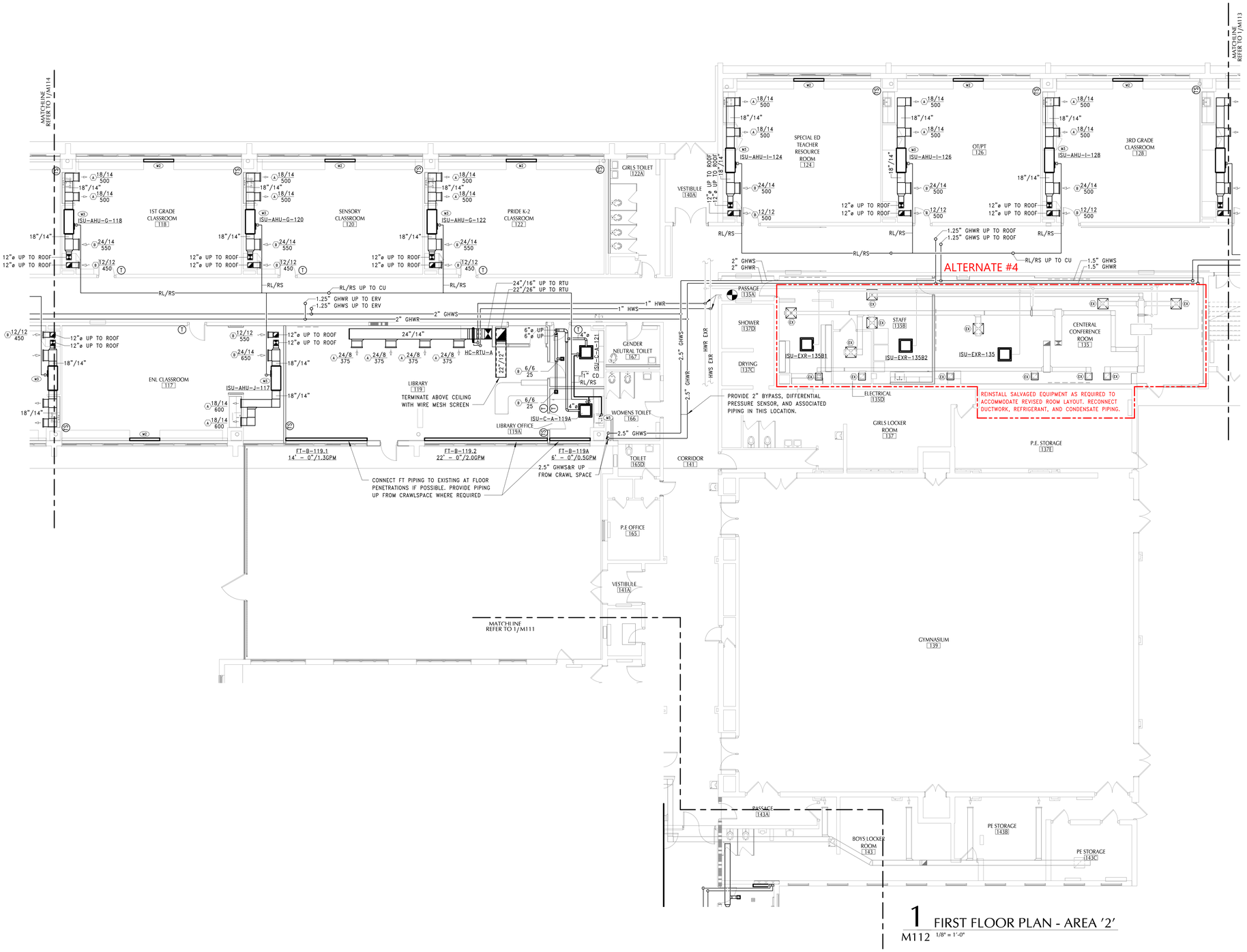
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Sheet Title
FIRST FLOOR PLAN - AREA '1'

Sheet No.
PES
M111

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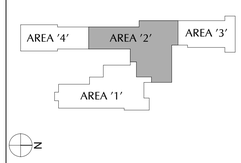


1 FIRST FLOOR PLAN - AREA '2'
M112 1/8" = 1'-0"

KEY NOTES

M2	PROVIDE FINNED TUBE ENCLOSURE TO MATCH EXISTING. PROVIDE PIPING, TRIM, CONTROLS (PER PID OR AS OTHERWISE NECESSARY) TO FACILITATE THE RECONNECTION OF THE EXR FINNED TUBE.
M3	1-INCH CD TO INDIRECT CONNECTION LOCATED WITHIN PIPE ENCLOSURE.

KEY PLAN



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FIRST FLOOR PLAN - AREA '2'

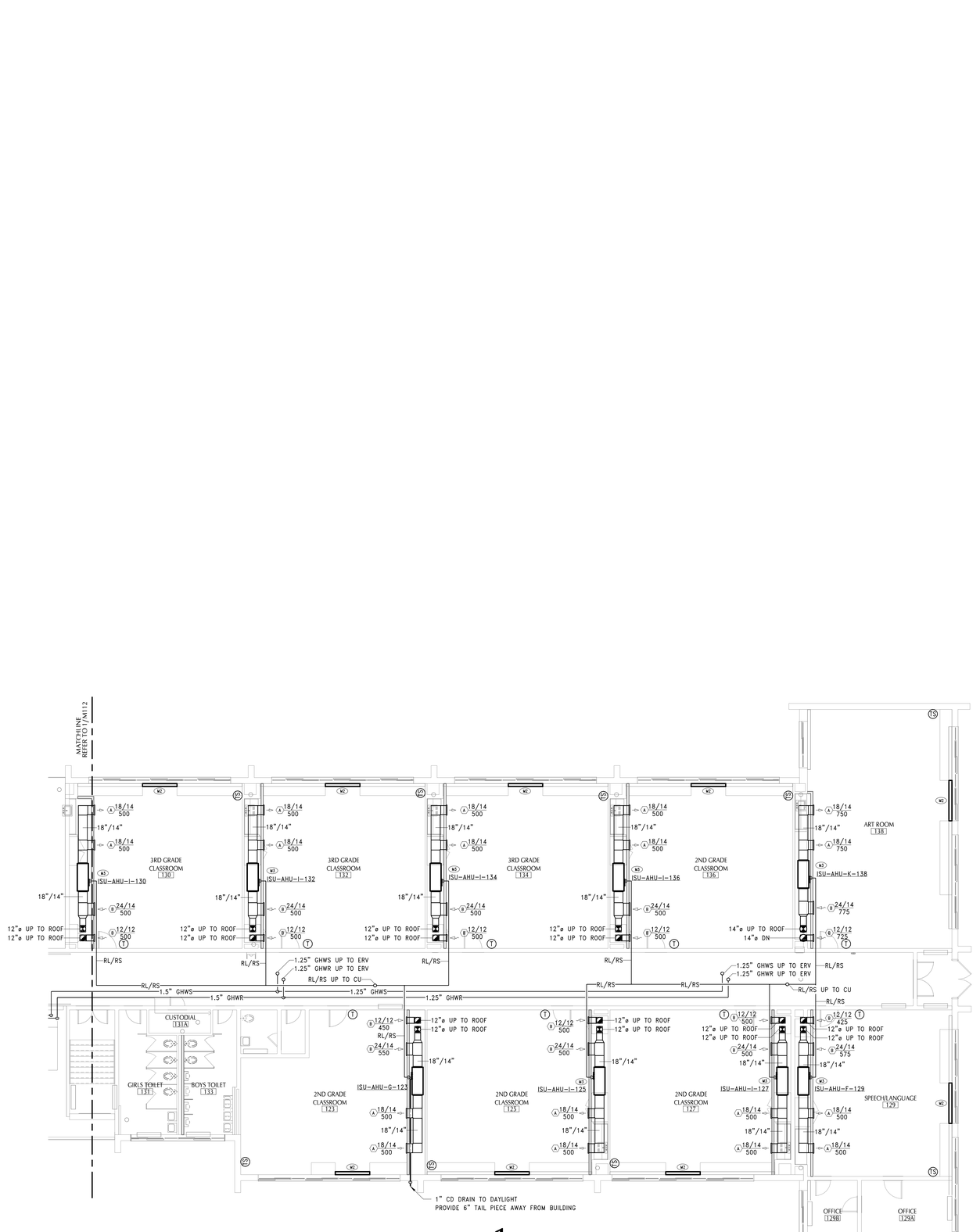
Sheet No.
PES M112

CONSTRUCTION DOCUMENTS

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KEY NOTES

M2	PROVIDE FINNED TUBE ENCLOSURE TO MATCH EXISTING. PROVIDE PIPING, TRIM, CONTROLS (PER PID OR AS OTHERWISE NECESSARY) TO FACILITATE THE RECONNECTION OF THE EXR FINNED TUBE.
M3	1-INCH CD TO INDIRECT CONNECTION LOCATED WITHIN PIPE ENCLOSURE.



1 FIRST FLOOR PLAN - AREA '3'
M113 1/8" = 1'-0"

KEY PLAN



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FIRST FLOOR PLAN - AREA '3'

Sheet No.

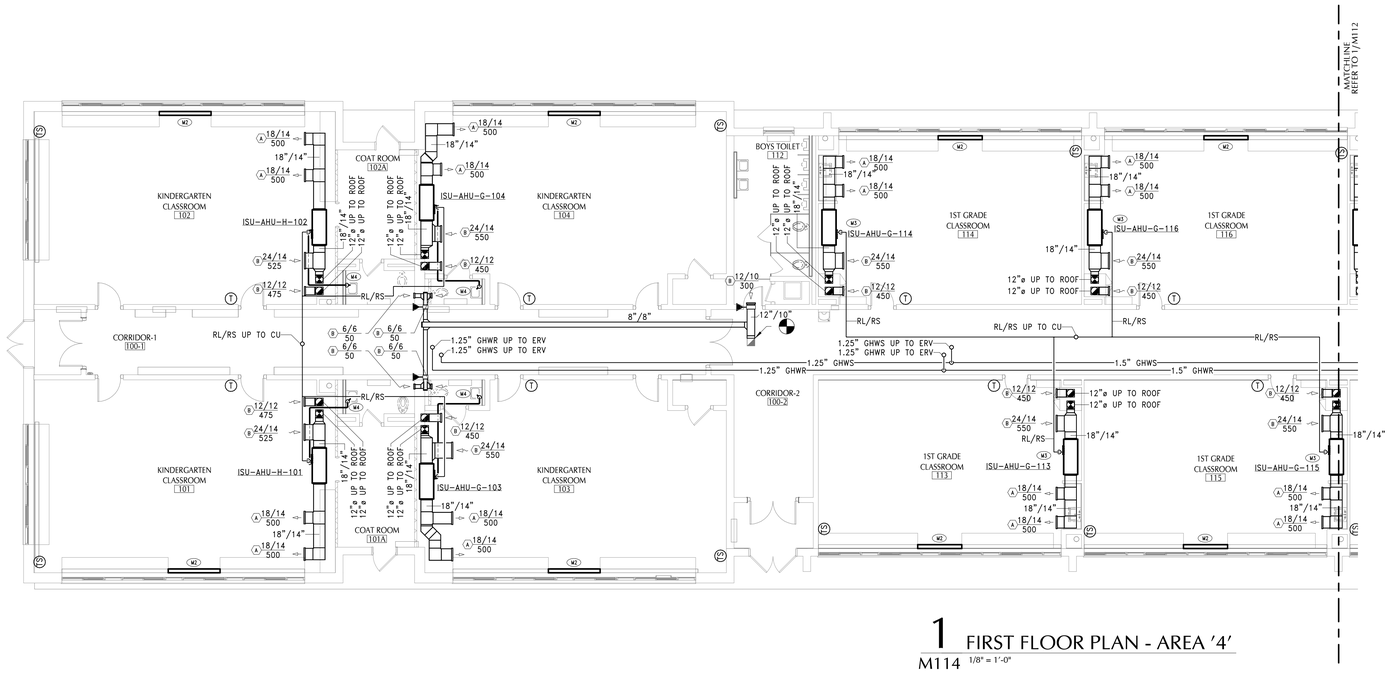
PES
M113

CONSTRUCTION DOCUMENTS

C:\Users\rjslabbert\Documents\208-2101_PCSD_ES_MEP_rjslabbert.rvt

KEY NOTES

M2	PROVIDE FINNED TUBE ENCLOSURE TO MATCH EXISTING. PROVIDE PIPING, TRIM, CONTROLS (PER PID OR AS OTHERWISE NECESSARY) TO FACILITATE THE RECONNECTION OF THE EXR FINNED TUBE.
M3	1-INCH CD TO INDIRECT CONNECTION LOCATED WITHIN PIPE ENCLOSURE.
M4	1-INCH CD DRAIN TO SINK.



1 FIRST FLOOR PLAN - AREA '4'
M114 1/8" = 1'-0"

KEY PLAN

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FIRST FLOOR PLAN - AREA '4'

Sheet No.

PES
M114

CONSTRUCTION DOCUMENTS

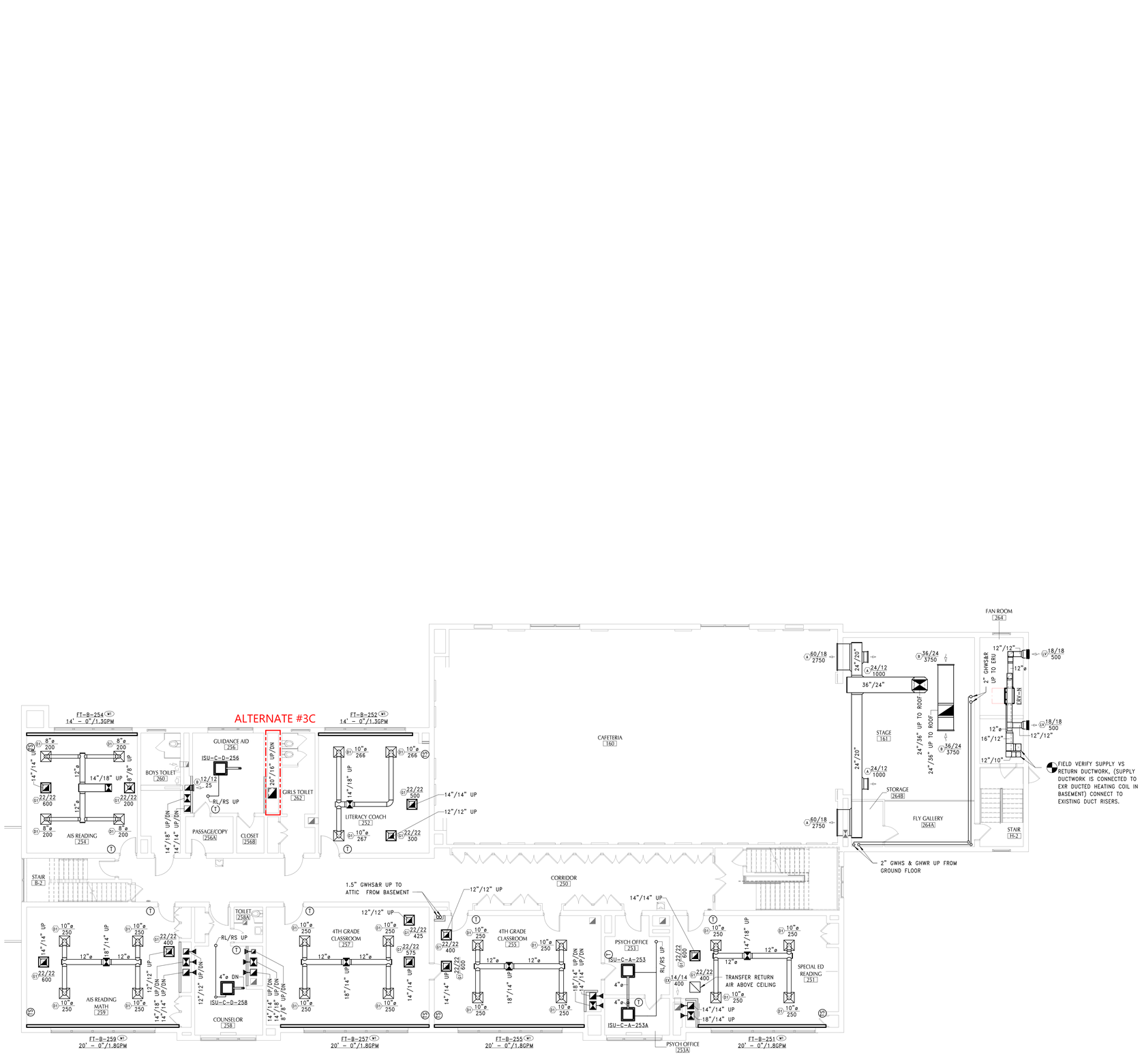
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SHEET NOTES

1. FIRE DAMPERS LOCATED AT FLOOR LEVEL FOR MAINTENANCE ACCESS. (TYPICAL /ALL)

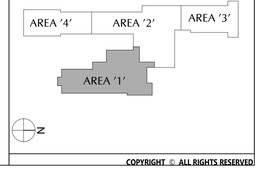
KEY NOTES

M1	PROVIDE FINNED TUBE IN SAME LOCATION AS EXISTING. CONNECT TO EXISTING PIPING.



1 SECOND FLOOR PLAN - AREA '1'
M121 1/8" = 1'-0"

KEY PLAN



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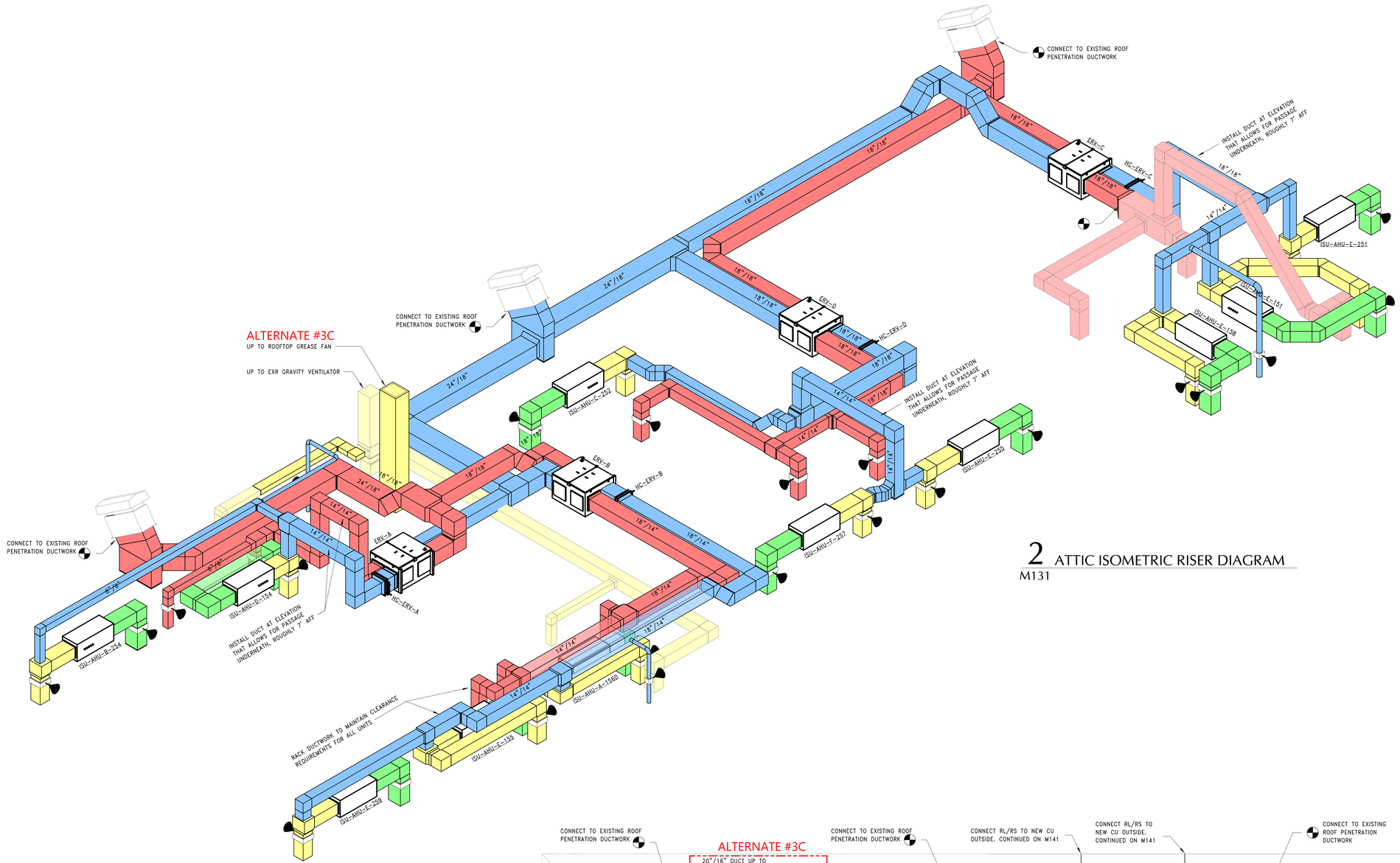
SECOND FLOOR PLAN - AREA '1'

Sheet No.

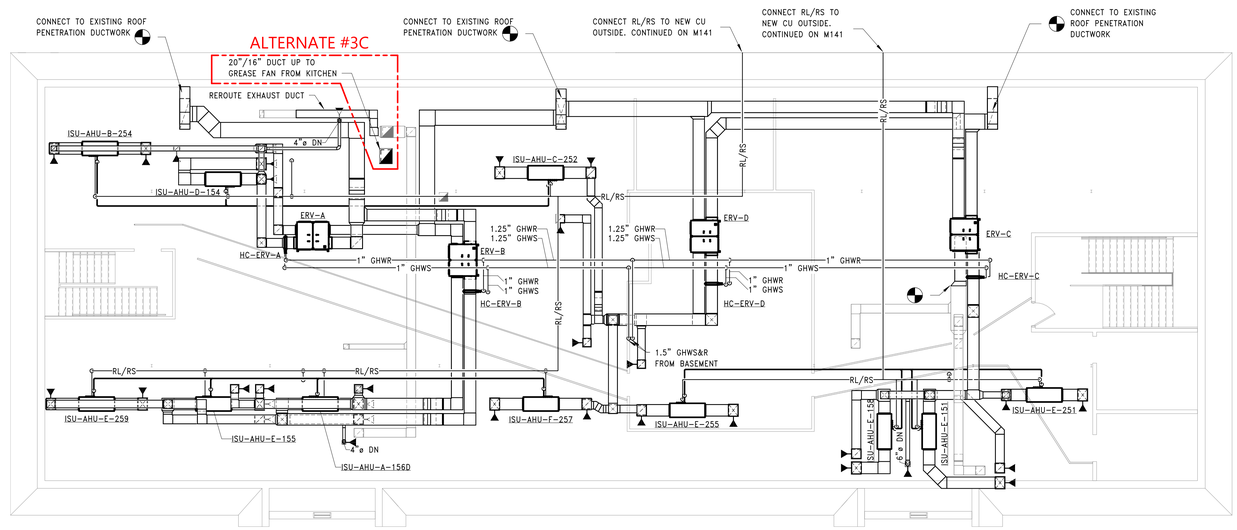
PES
M121

CONSTRUCTION DOCUMENTS

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2 ATTIC ISOMETRIC RISER DIAGRAM
M131



1 ATTIC PLAN - AREA '1'
M131 1/8" = 1'-0"

SHEET NOTES

1. FIRE DAMPERS LOCATED AT FLOOR LEVEL FOR MAINTENANCE ACCESS. (TYPICAL /ALL)
2. SUPPORT ALL UNITS AND DUCTWORK LOCATED IN ATTIC 1'-0" MIN. ABOVE ATTIC FLOOR. SUPPORT ALL EQUIPMENT ON VIBRATION ISOLATION STANDS/ CURBS.
3. ISU-AHU SUPPLY AND RETURN DUCT CONNECTIONS ARE 18"/14".
4. SUPPLY AIR DROPS ARE ALL 18"/14".
5. RETURN AIR DROPS ARE ALL 14"/14".
6. FINAL OUTDOOR AIR CONNECTIONS TO ISU RETURN DUCTWORK IS 12"/12" UNLESS OTHERWISE NOTED.
7. EXHAUST AIR DROPS ARE 12"/12" UNLESS OTHERWISE NOTED.

KEY NOTES

KEY PLAN



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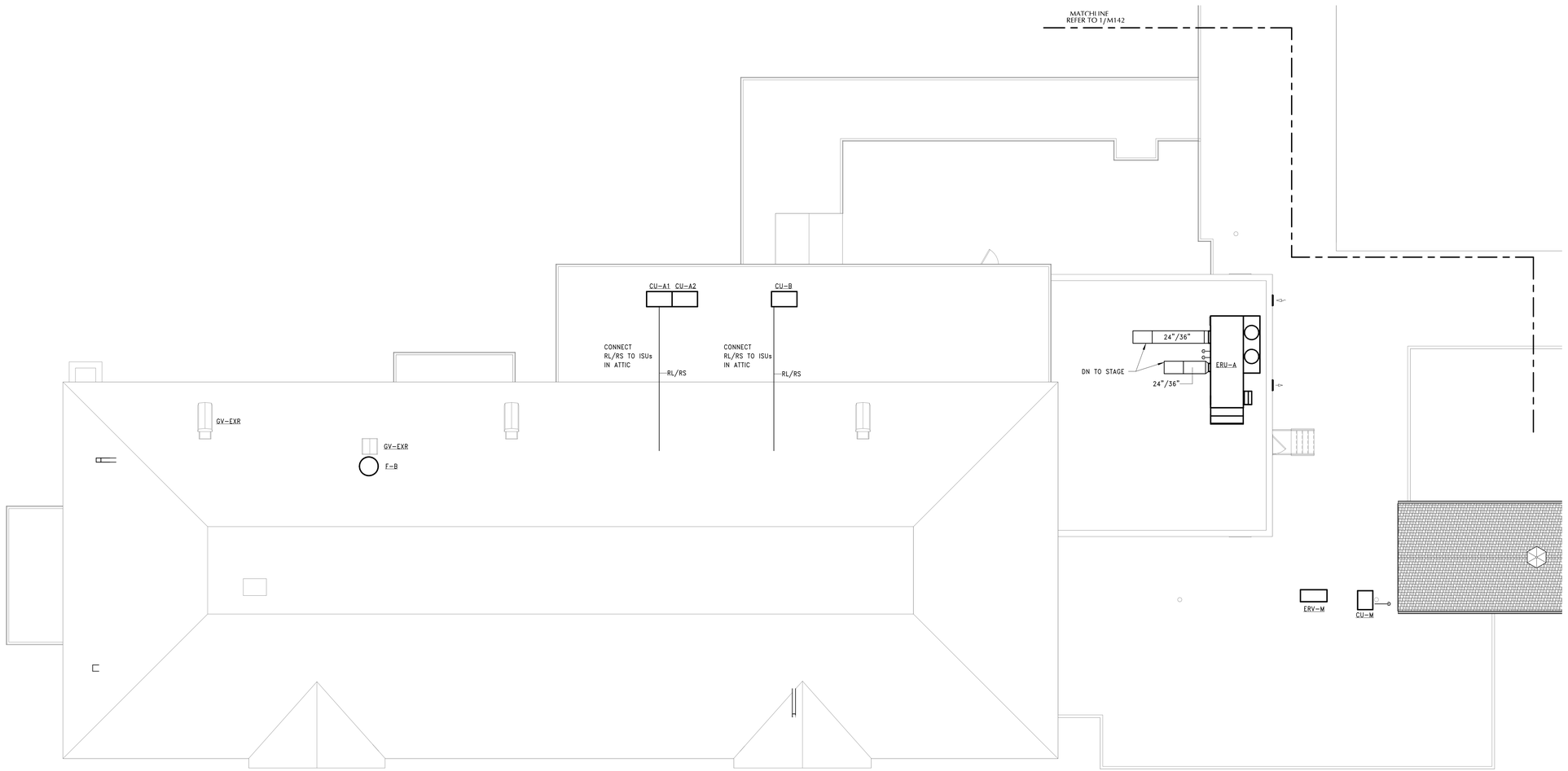
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Sheet Title
ATTIC PLAN - AREA '1'

Sheet No.
PES
M131

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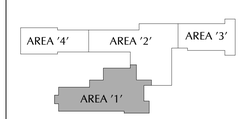
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1 M141 ROOF PLAN - AREA '1'
1/8" = 1'-0"

KEY NOTES

KEY PLAN



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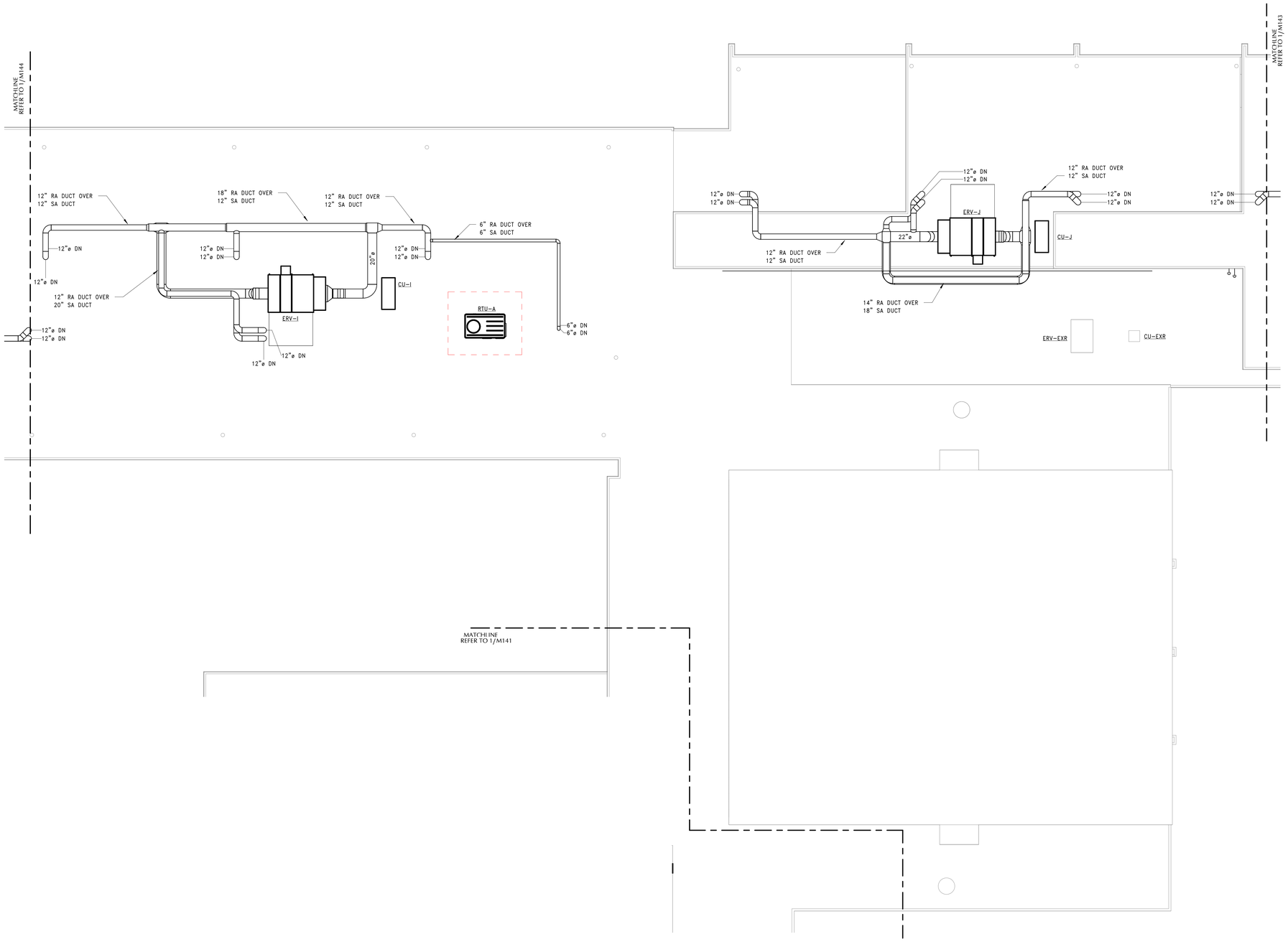
ROOF PLAN - AREA '1'

Sheet No.

PES M141

CONSTRUCTION DOCUMENTS

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1 ROOF PLAN - AREA '2'
M142 1/8" = 1'-0"

KEY NOTES

KEY PLAN



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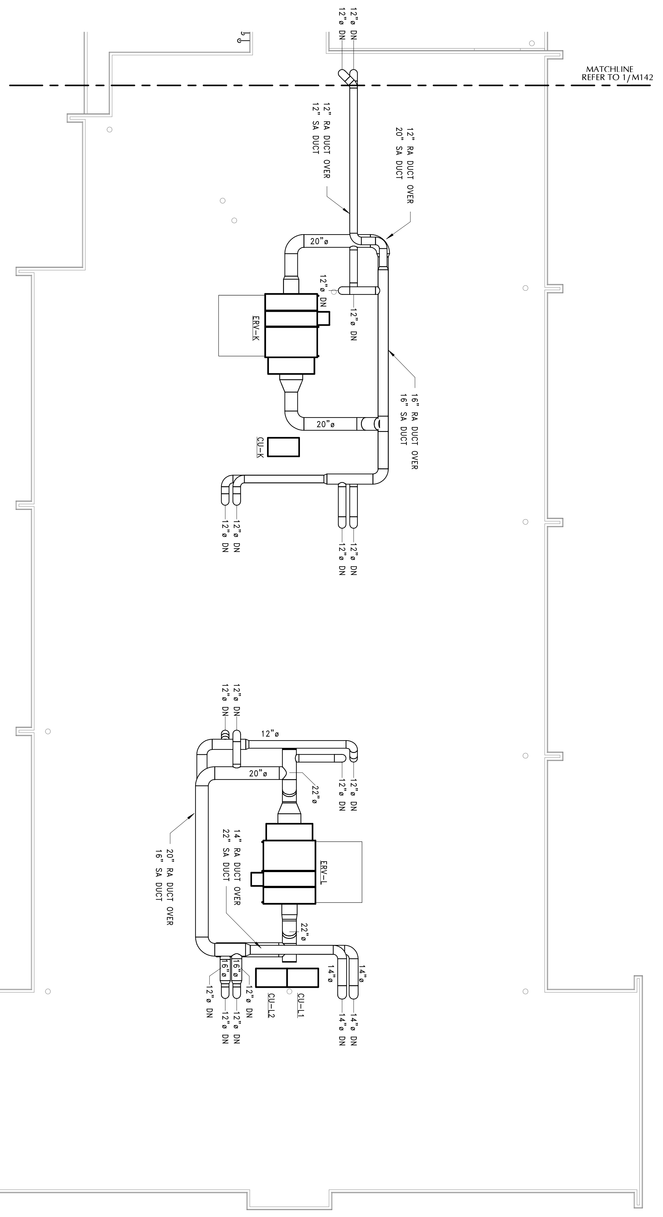
Sheet Title
ROOF PLAN - AREA '2'

Sheet No.
PES
M142

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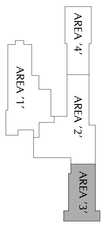
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1 ROOF PLAN - AREA '3'
M143 1/8" = 1'-0"

KEY NOTES

KEY PLAN



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M143

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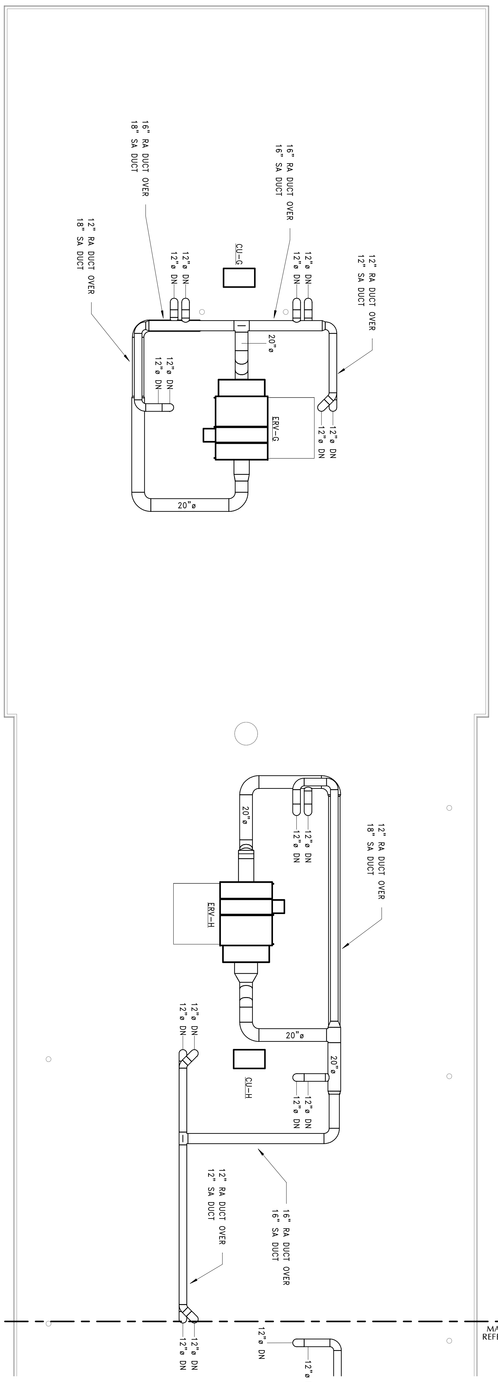
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ROOF PLAN - AREA '3'

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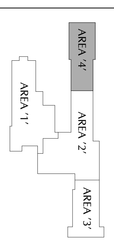
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1 ROOF PLAN - AREA '4'
M144 1/8" = 1'-0"

KEY NOTES

KEY PLAN



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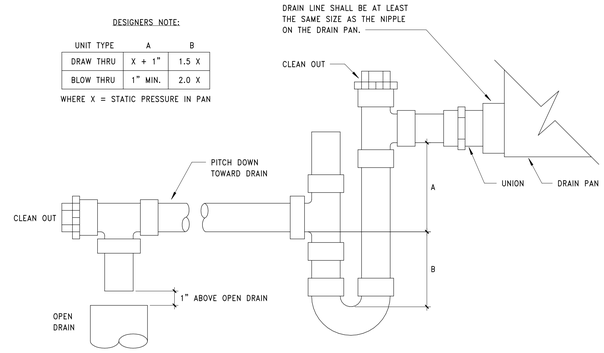
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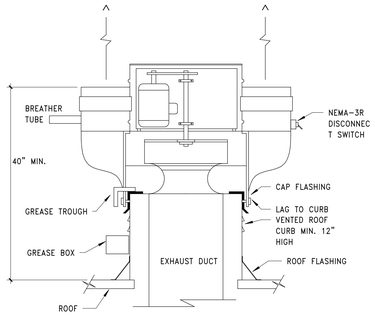
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BLOW THRU	1" MIN.	2.0 X

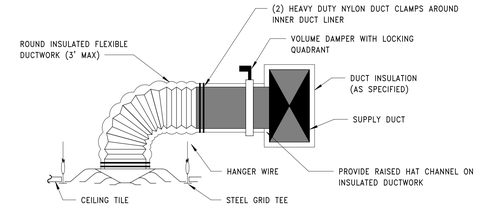
WHERE X = STATIC PRESSURE IN PAN



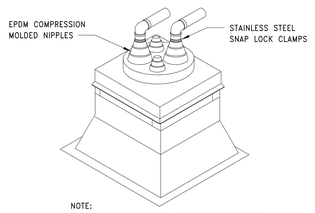
4 CONDENSATE PIPING
M601 NTS



7 GREASE FAN
M601 1/4" = 1'-0"

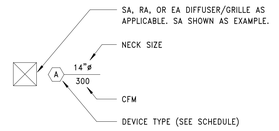


3 DIFFUSER CONNECTION
M601 NTS



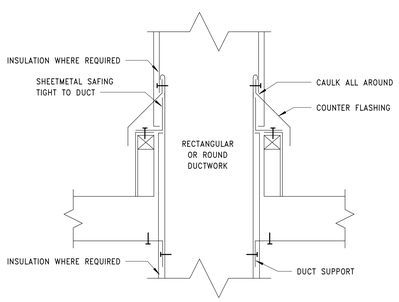
NOTE:
ONLY TWO PIPES SHOWN, PROVIDE OPENINGS AS NECESSARY. COORDINATE WITH OTHER TRADES.

6 PIPE PORTAL
M601 NTS

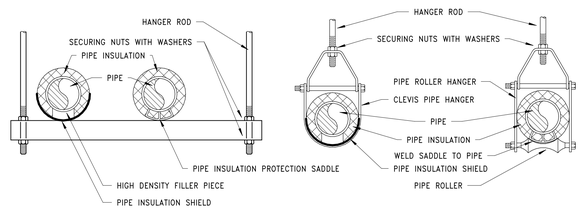


NOTES:
1. ALL INTERNAL PARTS WHICH MAY BE EXPOSED TO VIEW SHALL HAVE A FLAT BLACK FINISH.
2. DELETE OPPOSED-BLADE DAMPERS AT DEVICES MOUNTED AT FIRE DAMPERS.
3. TRANSITION FROM DUCT SIZE TO NECK SIZE AS REQUIRED.
4. ALL DIFFUSERS, REGISTERS AND GRILLES ARE POWDER COATED WHITE UNLESS OTHERWISE SPECIFIED.
5. PROVIDE BALANCING DAMPERS IN DUCT AT ALL DIFFUSERS/GRILLES REQUIRING BALANCED CFM VALUE. WHERE SPECIFIED AS SUCH, INTEGRAL DIFFUSER/GRILLE DAMPERS SHALL BE PROVIDED.

2 DIFFUSER/GRILLE TAG
M601 NTS



5 DUCT PENETRATION THROUGH ROOF
M601 NTS



1 PIPE HANGERS
M601 NTS

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Consultant

PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

Project Title

STATE OF NEW YORK
ZACHARY ROBERT NELSON
097797
LICENSED PROFESSIONAL ENGINEER
Expires : 06/30/2025

#	DATE	DESCRIPTION

Drawn By:
Checked By:
Proj. #: 13-12-01-04-0-001-024
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Sheet Title
DETAILS

Sheet No.
PES
M601

CONSTRUCTION DOCUMENTS

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AIR SEPARATOR SCHEDULE

TAG	GPM	MANUFACTURER	MODEL
AS-A	110	SPIROTHERM	VDN300

EXPANSION TANK SCHEDULE

TAG	TYPE	ACCEPTANCE (GAL)	VOLUME (GAL)	DIAMETER / HEIGHT	SYSTEM FILL (PSIG)	RELIEF VALVE (PSIG)	MANUFACTURER	MODEL	NOTES
ET-A	DIAPHRAGM	53	53	24/38	50	75	AMTROL	200-L	1, 2

NOTES:
1. ASME PRESSURE VESSEL.
2. 40% GLYCOL SYSTEM.

GLYCOL MANAGEMENT SYSTEM SCHEDULE

TAG	LOCATION	VOLUME (GAL)	TYPE	SYSTEM FILL (PSIG)	RELIEF VALVE (PSIG)	MOTOR HP	VOLTAGE	PHASE	DISCONNECT SWITCH	MANUFACTURER	MODEL	NOTES
GMU-A	MAIL ROOM	50	40% PROPYLENE GLYCOL	50	75	1/2	120	1	FIELD PROVIDED	J.L. WINGERT CO.	GL50-E2-2-B-C-HC-HTM	1,2

NOTES:
1. PROVIDE WITH CONTACTS FOR REMOTE INDICATION OF HIGH/LOW LEVELS AND PUMP STATUS.
2. PROVIDE WITH HAND-OFF-AUTO SWITCHES.

PLATE & FRAME HEAT EXCHANGER SCHEDULE

			SOURCE SIDE						LOAD SIDE									
TAG	SERVICE	MBH	FLUID	GPM	EFT (F)	LFT (F)	FPD (FT)	FLUID	GPM	EFT (F)	LFT (F)	FPD (FT)	NOMINAL DIMENSIONS (IN)	NO. OF PLATES	DESIGN BASIS	MODEL	NOTES
PFHX-A	GHW	1650	WATER	104.7	160	130	11.0	40% PG	110	125	155	14.3	51.1x12.6x35.4	119	ALFA LAVAL	AQ2L-FG	

PUMP SCHEDULE

			PUMP DATA						ELECTRICAL DATA						
TAG	SERVICE	TYPE	GPM	PRESSURE (FT)	RPM	BHP	HP	MOTOR CONTROLLER	VOLTAGE	PHASE	FLA	DISCONNECT SWITCH	MANUFACTURER	MODEL
P-A	BUILDING HEATING GLYCOL	CLOSE-COUPLED INLINE	110	100	3500	4.08	7.5	FACTORY VFD	208	3	17.5	FIELD PROVIDED	TACO	SKV2006D

CABINET UNIT HEATER SCHEDULE

	FAN DATA				HEATING COIL DATA						ELECTRICAL DATA						
TAG	CFM	ESP (In. Wg)	HP	MOTOR CONTROLLER	EAT (F)	LAT (F)	EFT (F)	LFT (F)	GPM	FPD (FT)	MBH	VOLTAGE	PHASE	MCA	MOCP	DISCONNECT SWITCH	MANUFACTURER	MODEL
CUH-B	600	0.05	0.089	INTEGRAL ECM	60	111.6	155	135	2.2	5.88	33.6	120	1	3.88	15	FIELD PROVIDED	TRANE	FFEB060

NOTES:
1. FINAL CONNECTIONS TO ALL CABINET UNIT HEATERS ARE 0.75" UNLESS NOTED OTHERWISE.

DIFFUSER & GRILLE SCHEDULE

TAG	SYSTEM TYPE	SHAPE	NOMINAL SIZE	MATERIAL	FINISH	MOUNTING	ACCESSORIES	MANUFACTURER	MODEL
A	SUPPLY GRILLE	RECTANGULAR	NECK SIZE + 2"	STEEL	WHITE POWDER COAT	SURFACE	–	TITUS	300RL
B	RETURN GRILLE	RECTANGULAR	NECK SIZE + 2"	STEEL	WHITE POWDER COAT	SURFACE	–	TITUS	350ZRL
D1	SUPPLY DIFFUSER	SQUARE	24"x24"	STEEL	WHITE POWDER COAT	CEILING	–	TITUS	OMNI
G1	RETURN GRILLE	SQUARE	24"x24"	STEEL	WHITE POWDER COAT	CEILING	–	TITUS	350ZRL
G2	RETURN GRILLE	SQUARE	24"x24"	STEEL	WHITE POWDER COAT	CEILING	–	TITUS	OMNI

FAN SCHEDULE

			FAN DATA						ELECTRICAL DATA					
TAG	SERVICE	TYPE	CFM	ESP (In. Wg)	RPM	BHP	HP	MOTOR CONTROLLER	VOLTAGE	PHASE	FLA	DISCONNECT SWITCH	MANUFACTURER	MODEL
F-B	KITCHEN HOOD	UPBLAST	2940	1	1119	0.86	2	INTEGRAL ECM	120	1	12.5	FIELD PROVIDED	GREENHECK	CUE-180-VG
F-C	VENTILATION EXHAUST	INLINE	500	0.5	1368	0.21	157W	INTEGRAL ECM	120	1	2.45	FIELD PROVIDED	GREENHECK	CSP-A510-VG

FIN TUBE SCHEDULE

	ELEMENT							ENCLOSURE				
TAG	PIPE DIAMETER (IN)	# OF ROWS	ELEMENT WIDTH (IN)	ELEMENT HEIGHT (IN)	EAT (F)	AVG. FLUID TEMP. (F)	BTU/FT	WIDTH (IN)	HEIGHT (IN)	DESCRIPTION	MANUFACTURER	MODEL
FT-B	0.75	2	4.25	4.25	70	145	1340	6	24	TOP OUTLET, STAMPED LOUVERS	STERLING	JVB-RD24

NOTES:
1. FINAL CONNECTIONS TO ALL FINNED TUBES ARE 0.75" UNLESS NOTED OTHERWISE.

AIR COOLED CONDENSING UNIT SCHEDULE

	NOMINAL		SEER/	ELECTRICAL DATA					WEIGHT			
TAG	TONS	REFIGERANT	IEER	VOLTAGE	PHASE	MCA	MOCP	DISCONNECT SWITCH	(LBS)	MANUFACTURER	MODEL	NOTES
CU-A1	10/20	R410A	24.2	208	3	40	60	FIELD PROVIDED	700	TRANE	TUHYE1203AN40A	1
CU-A2	10/20	R410A	24.2	208	3	40	60	FIELD PROVIDED	700	TRANE	TUHYE1203AN40A	1
CU-B	12	R410A	30.4	208	3	47	70	FIELD PROVIDED	700	TRANE	TUHYE1443AN40A	
CU-G	12	R410A	30.4	208	3	47	70	FIELD PROVIDED	700	TRANE	TUHYE1443AN40A	
CU-H	12	R410A	30.4	208	3	47	70	FIELD PROVIDED	700	TRANE	TUHYE1443AN40A	
CU-I	14	R410A	31.2	208	3	56	90	FIELD PROVIDED	800	TRANE	TUHYE1683AN40A	
CU-J	14	R410A	31.2	208	3	56	90	FIELD PROVIDED	800	TRANE	TUHYE1683AN40A	
CU-K	12	R410A	30.4	208	3	47	70	FIELD PROVIDED	700	TRANE	TUHYE1443AN40A	
CU-L1	8/16	R410A	32.6	208	3	31	45	FIELD PROVIDED	700	TRANE	TUHYE0963AN40A	2
CU-L2	8/16	R410A	32.6	208	3	31	45	FIELD PROVIDED	700	TRANE	TUHYE0963AN40A	2
CU-M	6	R410A	32.5	208	3	23	35	FIELD PROVIDED	600	TRANE	TUHYE0723AN40A	

NOTES:
1. CU-A COMBINATION UNIT (MODEL TUHYE2403BN40A) CONSISTS OF UNIT CU-A1 (MODEL TUHYE1203AN40A) AND UNIT CU-A2 (MODEL TUHYE1203AN40A).
2. CU-L COMBINATION UNIT (MODEL TUHYE1923BN40A) CONSISTS OF UNIT CU-L1 (MODEL TUHYE0963AN40A) AND UNIT CU-L2 (MODEL TUHYE0963AN40A).

INDOOR SPLIT UNITS

		FAN DATA			COOLING DATA						HEATING DATA			ELECTRICAL DATA								
TAG	TYPE	CFM	OA CFM	ESP (In. Wg)	EAT DB (F)	EAT WB (F)	LAT DB (F)	LAT WB (F)	REFRIGERANT	NOMINAL MBH	EAT (F)	LAT (F)	NOMINAL MBH	VOLTAGE	PHASE	MCA	MOCP	DISCONNECT SWITCH	WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
ISU-AHU-A	AIR HANDLING UNIT	500	75	0.5	77	65	57	55	R410A	18	70	89	20	208	1	3	15	FIELD PROVIDED	113	TRANE	TPVFYP018AM141A	1
ISU-AHU-B	AIR HANDLING UNIT	800	200	0.5	77	65	56	55	R410A	30	70	92	34	208	1	4.1	15	FIELD PROVIDED	141	TRANE	TPVFYP030AM141A	1
ISU-AHU-C	AIR HANDLING UNIT	800	300	0.5	77	65	56	55	R410A	30	70	92	34	208	1	4.1	15	FIELD PROVIDED	141	TRANE	TPVFYP030AM141A	1
ISU-AHU-D	AIR HANDLING UNIT	1000	350	0.5	77	65	57	55	R410A	36	70	91	40	208	1	4.1	15	FIELD PROVIDED	141	TRANE	TPVFYP036AM141A	1
ISU-AHU-E	AIR HANDLING UNIT	1000	400	0.5	77	65	56	55	R410A	36	70	89	40	208	1	4.1	15	FIELD PROVIDED	141	TRANE	TPVFYP036AM141A	1
ISU-AHU-F	AIR HANDLING UNIT	1000	425	0.5	77	65	56	55	R410A	36	70	92	40	208	1	4.1	15	FIELD PROVIDED	141	TRANE	TPVFYP036AM141A	1
ISU-AHU-G	AIR HANDLING UNIT	1000	450	0.5	77	65	55	55	R410A	36	70	91	40	208	1	4.1	15	FIELD PROVIDED	141	TRANE	TPVFYP036AM141A	1
ISU-AHU-H	AIR HANDLING UNIT	1000	475	0.5	77	65	55	55	R410A	36	70	91	40	208	1	4.1	15	FIELD PROVIDED	141	TRANE	TPVFYP036AM141A	1
ISU-AHU-I	AIR HANDLING UNIT	1000	500	0.5	77	65	55	55	R410A	36	70	89	40	208	1	4.1	15	FIELD PROVIDED	141	TRANE	TPVFYP036AM141A	1
ISU-AHU-J	AIR HANDLING UNIT	1200	550	0.5	77	65	55	55	R410A	48	70	89	54	208	1	5.6	15	FIELD PROVIDED	172	TRANE	TPVFYP048AM141A	1
ISU-AHU-K	AIR HANDLING UNIT	1500	725	0.5	77	65	54	54	R410A	54	70	95	60	208	1	5.6	15	FIELD PROVIDED	172	TRANE	TPVFYP054AM141A	1
ISU-C-A	CEILING RECESSED CASSETTE	300	25	0	77	65	59	58	R410A	8	70	85	9	208	1	0.28	15	FIELD PROVIDED	35	TRANE	TPLFYP008FM140A	1
ISU-C-B	CEILING RECESSED CASSETTE	300	50	0	77	65	59	58	R410A	8	70	90	9	208	1	0.28	15	FIELD PROVIDED	35	TRANE	TPLFYP008FM140A	1
ISU-C-C	CEILING RECESSED CASSETTE	300	50	0	77	65	55	54	R410A	12	70	94	13.5	208	1	0.29	15	FIELD PROVIDED	35	TRANE	TPLFYP012FM140A	1
ISU-C-D	CEILING RECESSED CASSETTE	450	25	0	77	65	55	54	R410A	18	70	95	20	208	1	0.5	15	FIELD PROVIDED	66	TRANE	TPLFYP018FM140A	1
ISU-C-E	CEILING RECESSED CASSETTE	450	50	0	77	65	53	52	R410A	18	70	99	20	208	1	0.5	15	FIELD PROVIDED	66	TRANE	TPLFYP018FM140A	1

NOTES:
1. BALANCE SUPPLY AIR DUCT FROM ERV TO EACH ISU. ERV SUPPLY AIR CFM IS TO BE THE OUTDOOR AIR CFM LISTED IN SCHEDULE. PROVIDE BALANCE DAMPERS AS REQUIRED.

DUCTED HEATING COIL SCHEDULE

TAG	FLUID	CFM	APD (in. WC)	EAT (F)	LAT (F)	EFT (F)	LFT (F)	GPM	MBH	FPD (FT)	WIDTH (IN)	HEIGHT (IN)	MANUFACTURER	MODEL
HC-ERV-A	40% PG	575	0.12	49	95	155	125	1.9	29.0	0.60	18	18	TRANE	DWPB18018
HC-ERV-B	40% PG	900	0.14	48	95	155	125	3.3	45.5	0.62	18	18	TRANE	DWPB18018
HC-ERV-C	40% PG	1250	0.12	52	95	155	125	4.2	58.0	0.89	18	18	TRANE	DWPB18018
HC-ERV-D	40% PG	1125	0.11	49	95	155	125	3.9	56.9	0.57	18	18	TRANE	DWPB18018
HC-ERV-M	WATER	300	0.24	46	95	155	125	1.2	16.1	0.09	12	12	TRANE	DWPB12012
HC-RTU-A	WATER	1600	0.23	45	95	155	125	6.3	86.8	6.46	24	18	TRANE	DTTB18024

ROOF TOP UNIT SCHEDULE

		SUPPY FAN DATA							POWER	COOLING DATA						ELECTRICAL DATA					WEIGHT		
TAG	SERVICE	CFM	OA CFM	ESP (In. Wg)	RPM	BHP	HP	MOTOR CONTROLLER	EXHAUST FAN HP	NOMINAL TONS	AMBIENT TEMPERATURE	EAT DB (F)	EAT WB (F)	LAT DB (F)	LAT WB (F)	VOLTAGE	PHASE	MCA	MOCP	DISCONNECT SWITCH	(LBS)	MANUFACTURER	MODEL
RTU-A	119	1600	500	0.75	938	.55	1	FACTORY PROVIDED VFD	0.87	5	95	79	67	57.5	56	208	3	33	45	FACTORY PROVIDED	1000	TRANE	THC067E3R0A

PACKAGED ENERGY RECOVERY UNIT SCHEDULE

		SUPPLY FAN DATA						EXHAUST FAN DATA						HOT WATER COIL DATA								DX COIL DATA					ENERGY RECOVERY WHEEL DATA						ELECTRICAL DATA									
																											WINTER			SUMMER											
TAG	SERVICE	CFM	OA CFM	ESP (In. Wg)	RPM	BHP	HP	CFM (EVENT MODE)	ESP (In. Wg)	RPM	BHP	HP	FLUID	EAT (F)	LAT (F)	EFT (F)	LFT (F)	GPM	MBH	FPD (FT)	EAT DB (F)	EAT WB (F)	LAT DB (F)	LAT WB (F)	MBH	OA TEMP DB (F)	RA TEMP DB (F)	LAT DB (F)	OA TEMP DB (F)	OA TEMP WB (F)	RA TEMP DB (F)	RA TEMP WB (F)	LAT DB (F)	LAT WB (F)	VOLTAGE	PHASE	FLA	MCA	MOCP	DISCONNECT SWITCH	MOTOR CONTROLLER	WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
ERU-A	160,161	7500	4500	1.00	2013	6.05	7.5	4500	1500	1.00	1553	5.35	7.5	40% PG	56	97	155	131	30.0	330	2.1	77	64	55	54	207.6	-10	70	47	89	73	74	62	78	66	208	3	94.7	113.6	125	FACTORY PROVIDED	FACTORY PROVIDED VFD	5000	TRANE	OADG017F1	

PACKAGED ENERGY RECOVERY VENTILATOR SCHEDULE

		SUPPLY FAN					EXHAUST FAN DATA						HEATING COIL DATA								ENERGY RECOVERY SECTION DATA						ELECTRICAL DATA								
																					WINTER			SUMMER											
TAG	SERVICE	CFM	ESP (In. Wg)	RPM	BHP	HP	CFM	ESP (In. Wg)	RPM	BHP	HP	MOTOR CONTROLLER	FLUID	APD (in. WC)	EAT (F)	LAT (F)	EFT (F)	LFT (F)	GPM	MBH	FPD (FT)	OA TEMP DB (F)	RA TEMP DB (F)	LAT DB (F)	OA TEMP DB (F)	OA TEMP WB (F)	RA TEMP DB (F)	RA TEMP WB (F)	LAT DB (F)	LAT WB (F)	VOLTAGE	PHASE	FLA	MCA	MOCP	DISCONNECT SWITCH	WEIGHT (LBS)	MANUFACTURER	MODEL
ERV-A	154, 254, 256	575	0.75	–	0.5	1	575	0.75	–	0.5	1	ECM, 0-10V	–							–	–	-10	70	49	89	73	74	62	78	67	120	1	8	18	20	FACTORY PROVIDED	600	RENEWAIRE LLC	HE1.5JINV-D11EE
ERV-B	155, 1560, 258, 259	900	0.75	–	0.5	1	900	0.75	–	0.5	1	ECM, 0-10V	–							–	–	-10	70	48	89	73	74	62	78	67	120	1	8	18	20	FACTORY PROVIDED	600	RENEWAIRE LLC	HE1.5JINV-D11EE
ERV-C	151, 158, 251, 253, 253A	1250	0.75	–	0.7	1	1250	0.75	–	0.7	1	ECM, 0-10V	–							–	–	-10	70	45	89	73	74	62	79	68	120	1	8	18	20	FACTORY PROVIDED	600	RENEWAIRE LLC	HE1.5JINV-D11EE
ERV-D	252, 255, 257	1125	0.75	–	0.7	1	1125	0.75	–	0.7	1	ECM, 0-10V	–							–	–	-10	70	49	89	73	74	62	78	67	120	1	8	18	20	FACTORY PROVIDED	600	RENEWAIRE LLC	HE1.5JINV-D11EE
ERV-G	101, 102, 103, 104	1850	0.5	1763	0.7	3.62	1850	0.5	1745	0.7	3.62	ECM, 0-10V	40% PG	0.04	43	95	155	125	7.9	112	17.72	-10	70	48	89	73	74	62	78	67	208	3	8.6	19.4	25	FACTORY PROVIDED	4400	RENEWAIRE LLC	DN-3-JRTBH133
ERV-H	113, 114, 115, 116	1800	0.5	1731	0.7	3.62	1800	0.5	1716	0.7	3.62	ECM, 0-10V	40% PG	0.04	49	101	155	125	7.4	103	15.3	-10	70	49	89	73	74	62	78	67	208	3	8.6	19.4	25	FACTORY PROVIDED	4400	RENEWAIRE LLC	DN-3-JRTBH133
ERV-I	117, 118, 119A, 120, 121, 122	1950	0.5	1828	0.7	3.62	1950	0.5	1814	0.7	3.62	ECM, 0-10V	40% PG	0.04	48	96	155	125	7.8	110	17.0	-10	70	48	89	73	74	62	78	67	208	3	8.6	19.4	25	FACTORY PROVIDED	4400	RENEWAIRE LLC	DN-3-JRTBH133
ERV-J	124, 126, 128	1500	0.5	1535	0.5	3.62	1500	0.5	1534	0.5	3.62	ECM, 0-10V	40% PG	0.04	50	96	155	125	7.7	76	17.7	-10	70	50	89	73	74	62	78	67	208	3	8.6	19.4	25	FACTORY PROVIDED	4400	RENEWAIRE LLC	DN-3-JRTBH133
ERV-K	123, 130, 132, 134	1950	0.5	1828	0.7	3.62	1950	0.5	1814	0.7	3.62	ECM, 0-10V	40% PG	0.04	48	96	155	125	7.8	101	17.0	-10	70	48	89	73	74	62	78	67	208	3	8.6	19.4	25	FACTORY PROVIDED	4400	RENEWAIRE LLC	DN-3-JRTBH133
ERV-L	125, 127, 129, 136, 138	2650	0.5	2333	1.6	3.62	2650	0.5	2306	1.6	3.62	ECM, 0-10V	40% PG	0.08	44	98	155	125	10.3	149	17.4	-10	70	44	89	73	74	62	79	68	208	3	8.6	19.4	25	FACTORY PROVIDED	4400	RENEWAIRE LLC	DN-3-JRTBH133
ERV-M	149, 149A, 149B, 149C, 149D, 149E, 149F	300	0.5	1523	0.1	0.5	300	0.5	1506	0.1	0.5	ECM, 0-10V	–	0.00						–	–	-10	70	55	89	73	74	62	77	66	208	1	4.8	3.9	15	FACTORY PROVIDED	500	RENEWAIRE LLC	HE10JRTV-D15EE
ERV-N	B21	500	0.5	1747	0.2	0.5	500	0.5	1720	0.2	0.5	ECM, 0-10V	–	0.00						–	–	-10	70	50	89	73	74	62	78	66	208	1	4.8	3.9	15	FACTORY PROVIDED	350	RENEWAIRE LLC	HE10JINV-D15EE

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PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

Project Title

STATE OF NEW YORK
ZACHARY ROBERT WISSELMAN
097797
LICENSED PROFESSIONAL ENGINEER
Expires : 06/30/2025

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Sheet Title
SCHEDULES

Sheet No.
PES
M901

CONSTRUCTION DOCUMENTS

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VENTILATION SCHEDULE

ZONE	ROOM #	ROOM NAME	Space Type	AREA (Az)	PEOPLE PER 1000SF	OCCUPANCY (Pz)	OUTDOOR AIR PER PERSON (Rp)	OUTDOOR AIR PER AREA (Ra)	OUTDOOR AIRFLOW (Vbz)	EFFECTIVENESS (Ez)	ZONE OUTDOOR AIR (Voz)	EA FROM FIXTURES	EA/SF	EA	NOTES
ERU-A	160	CAFETERIA	Education – Cafeteria	3,002	100	300	8	0.18 CFM/SF	2792	0.8	3490	0	0	0	
ERU-A	161	STAGE	Theaters – Stages/Studios	1,016	70	71	10	0.06 CFM/SF	772	0.8	965	0	0	0	
ERU-A											4455				
											4455				
ERV-A	154	MUSIC	Education – Music/Theater/Dance	667	35	23	10	0.06 CFM/SF	273	0.8	342	0	0	0	
ERV-A	254	AIS READING	Offices – Conference Rooms	487	50	24	5	0.06 CFM/SF	151	0.8	189	0	0	0	
ERV-A	256	GUIDANCE AID	Offices – Office Spaces	210	5	1	5	0.06 CFM/SF	18	0.8	23	0	0	0	
ERV-A											554				
											554				
ERV-B	155	MAKER SPACE	Education – Classroom (Age 9 Plus)	671	35	23	10	0.12 CFM/SF	315	0.8	395	0	0	0	
ERV-B	156D	KITCHEN STORAGE	Retail – Storage	484		0	0	0.12 CFM/SF	58	0.8	73	0	0	0	
ERV-B	258	COUNSELOR	Offices – Office Spaces	226	5	1	5	0.06 CFM/SF	19	0.8	25	0	0	0	
ERV-B	259	AIS READING MATH	Education – Classroom (Age 9 Plus)	671	35	23	10	0.12 CFM/SF	315	0.8	395	0	0	0	
ERV-B											888				
											888				
ERV-C	151	4TH GRADE CLASSROOM	Education – Classroom (Age 9 Plus)	641	35	22	10	0.12 CFM/SF	301	0.8	377	0	0	0	
ERV-C	158	4TH GRADE CLASSROOM	Education – Classroom (Age 9 Plus)	660	35	23	10	0.12 CFM/SF	310	0.8	388	0	0	0	
ERV-C	251	SPECIAL ED READING	Education – Classroom (Age 9 Plus)	630	35	22	10	0.12 CFM/SF	296	0.8	370	0	0	0	
ERV-C	253	PSYCH OFFICE	Offices – Office Spaces	165	5	1	5	0.06 CFM/SF	14	0.8	18	0	0	0	
ERV-C	253A	PSYCH OFFICE	Offices – Office Spaces	87	5	0	5	0.06 CFM/SF	7	0.8	10	0	0	0	
ERV-C											1163				
											1163				
ERV-D	252	LITERACY COACH	Education – Classroom (Age 9 Plus)	483	35	17	10	0.12 CFM/SF	227	0.8	284	0	0	0	
ERV-D	255	4TH GRADE CLASSROOM	Education – Classroom (Age 9 Plus)	657	35	23	10	0.12 CFM/SF	309	0.8	387	0	0	0	
ERV-D	257	4TH GRADE CLASSROOM	Education – Classroom (Age 9 Plus)	716	35	25	10	0.12 CFM/SF	336	0.8	421	0	0	0	
ERV-D											1092				
											1092				
ERV-G	101	KINDERGARTEN CLASSROOM	Education – Classroom (Ages 5 – 8)	985	25	25	10	0.12 CFM/SF	364	0.8	456	0	0	0	
ERV-G	102	KINDERGARTEN CLASSROOM	Education – Classroom (Ages 5 – 8)	987	25	25	10	0.12 CFM/SF	365	0.8	457	0	0	0	
ERV-G	103	KINDERGARTEN CLASSROOM	Education – Classroom (Ages 5 – 8)	941	25	24	10	0.12 CFM/SF	348	0.8	436	0	0	0	
ERV-G	104	KINDERGARTEN CLASSROOM	Education – Classroom (Ages 5 – 8)	940	25	23	10	0.12 CFM/SF	348	0.8	435	0	0	0	
ERV-G											1784				
											1784				
ERV-H	113	1ST GRADE CLASSROOM	Education – Classroom (Age 9 Plus)	745	35	26	10	0.12 CFM/SF	350	0.8	438	0	0	0	
ERV-H	114	1ST GRADE CLASSROOM	Education – Classroom (Age 9 Plus)	745	35	26	10	0.12 CFM/SF	350	0.8	438	0	0	0	
ERV-H	115	1ST GRADE CLASSROOM	Education – Classroom (Age 9 Plus)	745	35	26	10	0.12 CFM/SF	350	0.8	438	0	0	0	
ERV-H	116	1ST GRADE CLASSROOM	Education – Classroom (Age 9 Plus)	745	35	26	10	0.12 CFM/SF	350	0.8	438	0	0	0	
ERV-H											1752				
											1752				
ERV-I	117	ENL CLASSROOM	Education – Classroom (Age 9 Plus)	921	35	32	10	0.12 CFM/SF	433	0.8	541	0	0	0	
ERV-I	118	1ST GRADE CLASSROOM	Education – Classroom (Age 9 Plus)	745	35	26	10	0.12 CFM/SF	350	0.8	438	0	0	0	
ERV-I	119A	LIBRARY OFFICE	Offices – Office Spaces	97	5	0	5	0.06 CFM/SF	8	0.8	11	0	0	0	
ERV-I	120	SENSORY CLASSROOM	Education – Classroom (Age 9 Plus)	745	35	26	10	0.12 CFM/SF	350	0.8	438	0	0	0	
ERV-I	121	PDL	Offices – Office Spaces	119	5	1	5	0.06 CFM/SF	10	0.8	13	0	0	0	
ERV-I	122	PRIDE K-2 CLASSROOM	Education – Classroom (Age 9 Plus)	745	35	26	10	0.12 CFM/SF	350	0.8	438	0	0	0	
ERV-I											1879				
											1879				
ERV-J	124	SPECIAL ED TEACHER RESOURCE ROOM	Education – Classroom (Age 9 Plus)	819	35	29	10	0.12 CFM/SF	385	0.8	482	0	0	0	
ERV-J	126	OT/PT	Education – Classroom (Age 9 Plus)	821	35	29	10	0.12 CFM/SF	386	0.8	483	0	0	0	
ERV-J	128	3RD GRADE CLASSROOM	Education – Classroom (Age 9 Plus)	819	35	29	10	0.12 CFM/SF	385	0.8	482	0	0	0	
ERV-J											1447				
											1447				
ERV-K	123	2ND GRADE CLASSROOM	Education – Classroom (Age 9 Plus)	755	35	26	10	0.12 CFM/SF	355	0.8	444	0	0	0	
ERV-K	130	3RD GRADE CLASSROOM	Education – Classroom (Age 9 Plus)	817	35	29	10	0.12 CFM/SF	384	0.8	481	0	0	0	
ERV-K	132	3RD GRADE CLASSROOM	Education – Classroom (Age 9 Plus)	819	35	29	10	0.12 CFM/SF	385	0.8	482	0	0	0	
ERV-K	134	3RD GRADE CLASSROOM	Education – Classroom (Age 9 Plus)	819	35	29	10	0.12 CFM/SF	385	0.8	482	0	0	0	
ERV-K											1889				
											1889				
ERV-L	125	2ND GRADE CLASSROOM	Education – Classroom (Age 9 Plus)	819	35	29	10	0.12 CFM/SF	385	0.8	482	0	0	0	
ERV-L	127	2ND GRADE CLASSROOM	Education – Classroom (Age 9 Plus)	819	35	29	10	0.12 CFM/SF	385	0.8	482	0	0	0	
ERV-L	129	SPEECH/LANGUAGE	Education – Classroom (Age 9 Plus)	720	35	25	10	0.12 CFM/SF	338	0.8	423	0	0	0	
ERV-L	136	2ND GRADE CLASSROOM	Education – Classroom (Age 9 Plus)	829	35	29	10	0.12 CFM/SF	389	0.8	487	0	0	0	
ERV-L	138	ART ROOM	Education – Art Classroom	1,011	20	20	10	0.18 CFM/SF	384	0.8	481	0	0.7	708	
ERV-L											2355				
											2355				
ERV-M	149	MAIN OFFICE	Offices – Office Spaces	448	5	2	5	0.06 CFM/SF	38	0.8	48	0	0	0	
ERV-M	149A	SECURITY	Offices – Office Spaces	100	5	1	5	0.06 CFM/SF	9	0.8	11	0	0	0	
ERV-M	149B	PRINCIPAL	Offices – Office Spaces	202	5	1	5	0.06 CFM/SF	17	0.8	22	0	0	0	
ERV-M	149C	ASSISSTANT PRINCIPAL	Offices – Office Spaces	182	5	1	5	0.06 CFM/SF	16	0.8	20	0	0	0	
ERV-M	149D	NURSE	Offices – Office Spaces	423	5	2	5	0.06 CFM/SF	36	0.8	45	0	0	0	
ERV-M	149E	TOILET	Public Spaces – Bathrooms	53		0	0	0.00 CFM/SF	0	0.8	0	50	0	50	
ERV-M	149F	ISOLATION RM	Offices – Office Spaces	49	5	0	5	0.06 CFM/SF	4	0.8	6	0	0	0	
ERV-M											152				
											152				
ERV-N	B21	MUSIC ROOM	Education – Music/Theater/Dance	742	35	26	10	0.06 CFM/SF	304	0.8	381	0	0	0	
ERV-N											381				
											381				
ISU FACULTY	B12	STORAGE	Retail – Storage	448		0	0	0.12 CFM/SF	54	0.8	68	0	0	0	
ISU FACULTY	B14	FACULTY LOUNGE	Offices – Office Spaces	656	5	3	5	0.06 CFM/SF	56	0.8	70	0	0	0	
ISU FACULTY											138				
											138				
KITCHEN EXHAUST	152	KITCHEN	Kitchen	707	20	14	8	0.12 CFM/SF	191	0.8	239	0	0.7	496	
KITCHEN EXHAUST											239				
											239				
RTU-A	119	LIBRARY	Education – Media Center	1,058	25	26	10	0.12 CFM/SF	392	0.8	490	0	0	0	
RTU-A											490				
											490				
Grand total											20658				

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PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

Project Title

STATE OF NEW YORK
ZAGNABY ROBERT ASSESSION
097797
LICENSED PROFESSIONAL ENGINEER
Expires : 06/30/2025

#	DATE	DESCRIPTION

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VENTILATION SCHEDULE

Sheet No.

PES
M902

CONSTRUCTION DOCUMENTS

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ABBREVIATIONS

A	AMPERE	KV	KILOVOLT
AV	AUDIO/VISUAL	KVA	KILOVOLT-AMPERE
AC	ABOVE CEILING; ABOVE COUNTER; ALTERNATING CURRENT	KW	KILOWATT
AS/AF	AMPERE RATING OF SWITCH/FUSE	KWH	KILOWATT-HOUR
AFF	ABOVE FINISHED FLOOR		
AFG	ABOVE FINISHED GRADE	LAN	LOCAL AREA NETWORK
AHJ	AUTHORITY HAVING JURISDICTION	LTG	LIGHTING
AIC	AMPERE INTERRUPTING CAPACITY		
AL	ALUMINUM	MCB	MAIN CIRCUIT BREAKER
ALT	ALTERNATE	MCC	MOTOR CONTROL CENTER
ARCH	ARCHITECTURAL	MFR	MANUFACTURER
AF/AT	AMPERE RATING OF CIRCUIT BREAKER FRAME/TRIP	MLO	MAIN LUG ONLY
ATS	AUTOMATIC TRANSFER SWITCH	MH	MANHOLE; MOUNTING HEIGHT
AUX	AUXILIARY		
AWG	AMERICAN WIRE GAUGE	N	NEUTRAL
		NA	NOT APPLICABLE
BAS	BUILDING AUTOMATION SYSTEM	NC	NORMALLY CLOSED; NEW CONNECTION
BATS	BYPASS AUTOMATIC TRANSFER SWITCH	NE	NEW LOCATION FOR EXISTING ITEM
BC	BARE COPPER	NEC	NATIONAL ELECTRICAL CODE
BFC	BELOW FINISHED CEILING	NF	NON-FUSED
BFG	BELOW FINISHED GRADE	NIC	NOT IN CONTRACT
BFL	BELOW FLOOR LEVEL	NO	NORMALLY OPEN
BLDG	BUILDING	NTS	NOT TO SCALE
BMS	BUILDING MANAGEMENT SYSTEM		
BKR	BREAKER	OH	OVERHEAD
		OO	ON-OFF
C	CONDUIT		
CATV	CABLE TELEVISION	P	POLE
CB	CIRCUIT BREAKER	PA	PUBLIC ADDRESS SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION	PB	PULL BOX; PUSH BUTTON
CKT	CIRCUIT	PC	PHOTOCELL
CLG	CEILING	PDU	POWER DISTRIBUTION UNIT
CORR	CORRIDOR	PF	POWER FACTOR
CPT	CONTROL POWER TRANSFORMER	PH	PHASE
CT	CURRENT TRANSFORMER	PNL	PANEL
CTRL	CONTROL	PT	POTENTIAL TRANSFORMER
CU	COPPER	PWR	POWER
D	DELTA CONNECTION	RCPT	RECEPTACLE
DC	DIRECT CURRENT	RE	RELOCATE EXISTING ITEM
DIA	DIAMETER		
DN	DOWN	SFL	SUB-FED LUGS
DPDT	DOUBLE POLE DOUBLE THROW	SHT	SHEET
DPST	DOUBLE POLE SINGLE THROW	SPD	SURGE PROTECTIVE DEVICE
DWG	DRAWING	SPEC	SPECIFICATION
		SPKR	SPEAKER
ECB	ENCLOSED CIRCUIT BREAKER	SS	SAFETY SWITCH; START-STOP
EFF	EFFICIENCY	ST	SHUNT TRIP
EGC	EQUIPMENT GROUND CONDUCTOR	SW	SWITCH
ELEC	ELECTRIC/ELECTRICAL	SWBD	SWITCHBOARD
ELEV	ELEVATOR	SWGR	SWITCHGEAR
ELU	EMERGENCY LIGHTING UNIT		
EM	EMERGENCY	TC	TIME CLOCK
EMI	ELECTROMAGNETIC INTERFERENCE	TEL	TELEPHONE; TELECOM
EPO	EMERGENCY POWER OFF	TS	TIME SWITCH
EQUIP	EQUIPMENT	TV	TELEVISION
EXR	EXISTING TO REMAIN	TYP	TYPICAL
FA	FIRE ALARM	UC	UNDERCOUNTER
FC	FOOTCANDLE	UG	UNDERGROUND
FDR	FEEDER	UON	UNLESS OTHERWISE NOTED
FLA	FULL LOAD AMPERES	UPS	UNINTERRUPTIBLE POWER SUPPLY
FLR	FLOOR		
FSS	FUSED SAFETY SWITCH	V	VOLT
		VA	VOLT-AMPERE
G	GROUND	VAR	VOLT-AMPERE REACTIVE
GEC	GROUNDING ELECTRODE CONDUCTOR	VFD	VARIABLE FREQUENCY DRIVE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	VP	VAPOR PROOF
GFP	GROUND FAULT PROTECTION		
GEN	GENERATOR	W	WIRE; WATT
GP	GENERAL PURPOSE (NON-HAZARDOUS)	W/	WITH
		WP	WEATHERPROOF
HH	HANDHOLE		
HOA	HAND OFF AUTOMATIC	XFMR	TRANSFORMER
HP	HORSEPOWER	XP	EXPLOSION PROOF
IG	ISOLATED GROUND	Y	WYE CONNECTION

GENERAL

———	PROPOSED WORK (THICK LINE)
———	EXISTING (HALFTONE, THIN LINE)
— — —	DEMOLITION WORK (DASHED, THICK LINE)
(#)	KEY NOTE, NUMBER INSIDE REFERS TO MATCHING KEY NOTE
#/XXXX	DETAIL CALLOUT

RACEWAYS

———	CONDUIT
— — —	CONDUIT BELOW GRADE OR EMBEDDED WITHIN SLAB
———○	CONDUIT UP
———●	CONDUIT DOWN
PB	PULL BOX
LP-1 1,3,5 ←—	HOMERUN BACK TO PANEL (PANEL AND CIRCUITS INDICATED)

WIRING DEVICE

	DUPLEX RECEPTACLE, 125V, WALL MOUNTED, SUBSCRIPT DENOTES: WP – WEATHER PROOF AC – ABOVE COUNTER G – GROUND FAULT CIRCUIT INTERRUPTER # – CIRCUIT NUMBER
	DUPLEX RECEPTACLE, 125V, DEDICATED, WALL MOUNTED
	DOUBLE DUPLEX RECEPTACLE, 125V, DEDICATED, WALL MOUNTED
	SINGLE RECEPTACLE, 125V, WALL MOUNTED
	SPECIAL PURPOSE RECEPTACLE, RATING AS INDICATED, WALL MOUNTED
	CONNECTION TO ELECTRIFIED FURNITURE SYSTEM, WALL MOUNTED
	DUPLEX RECEPTACLE, 125V, IN CEILING
	DOUBLE DUPLEX RECEPTACLE, 125V, DEDICATED, IN CEILING
	SINGLE RECEPTACLE, 125V, IN CEILING
	SPECIAL PURPOSE RECEPTACLE, RATING AS INDICATED, IN CEILING
	DUPLEX RECEPTACLE, 125V, IN FLOOR BOX
	DOUBLE DUPLEX RECEPTACLE, 125V, IN FLOOR BOX
	SINGLE RECEPTACLE, 125V, IN FLOOR BOX
	SPECIAL PURPOSE RECEPTACLE, RATING AS INDICATED, IN FLOOR BOX
	CONNECTION TO ELECTRIFIED FURNITURE SYSTEM, IN FLOOR BOX
(J)	JUNCTION BOX, IN CEILING
(J)	JUNCTION BOX, IN WALL
(CR)	CORD REEL
(DC)	DROP CORD
	EMERGENCY POWER OFF
MM	MULTIMEDIA BOX. SUBSCRIPT DENOTES: MD – MAIN DISPLAY – (X) HDMI, (X) USB, DUPLEX RECEPTACLE, AND (X) CAT6A PER LOCATION TS – TEACHER STATION – (X) HDMI, (X) USB, DOUBLE DUPLEX RECEPTACLE, AND (X) CAT6A PER LOCATION

LIGHTING

X / # x	TYPICAL LIGHTING FIXTURE, SUBSCRIPT DENOTES: X – FIXTURE DESIGNATION # – CIRCUIT o – SWITCH CONTROL EM – EMERGENCY BATTERY OR GENERATOR (PER SCHEDULE) NL – UNSWITCHED NIGHT LIGHT DS – FIXTURE CONTROLLED BY LOCAL DAYLIGHT SENSOR GTD – GENERATOR TRANSFER DEVICE (ADJACENT PER FIXTURE)
	EXIT SIGN, WALL MOUNTED, ILLUMINATED FACE INDICATED BY SHADING, ARROW INDICATES DIRECTIONAL ARROW REQUIRED
	EXIT SIGN, CEILING MOUNTED, ILLUMINATED FACE INDICATED BY SHADING, ARROW INDICATES DIRECTIONAL ARROW REQUIRED
DS	DAYLIGHT SENSOR, CEILING MOUNTED
OS	OCCUPANCY SENSOR, CEILING MOUNTED
VS	VACANCY SENSOR, CEILING MOUNTED
$	TOGGLE SWITCH, SUBSCRIPT DENOTES: 3 – 3-WAY SWITCH 4 – 4-WAY SWITCH OS – OCCUPANCY SENSOR WALL SWITCH K – KEY SWITCH o – LOWER CASE LETTER DENOTES SWITCH CONTROL
WS (#)	WALL STATION, SUBSCRIPT DENOTES: # – LIGHTING SEQUENCE (REFER TO SCHEDULE ON SHEET NO. E902.)

POWER

	SURFACE MOUNTED PANELBOARD, SIZE APPROXIMATELY AS SHOWN
	RECESSED PANELBOARD, SIZE APPROXIMATELY AS SHOWN
T	TRANSFORMER, SIZE APPROXIMATELY AS SHOWN
	DISCONNECT SWITCH
	DISCONNECT SWITCH WITH FUSE
	MOTOR STARTER
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH
VFD	VARIABLE FREQUENCY DRIVE
VFD	VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT
$	TOGGLE SWITCH, SUBSCRIPT DENOTES: M – MOTOR RATED TOGGLE SWITCH
MGB	MAIN GROUND BUS BAR
TGB	TELECOM GROUND BUS BAR

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PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3



EXPIRES 5/31/2026

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GENERAL NOTES, LEGENDS AND ABBREVIATIONS

Sheet No.

PES
EG000

CONSTRUCTION DOCUMENTS

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FIRE ALARM SYSTEM NOTES

1. ALL WIRING, POWER, CONDUCTORS, CONDUITS ETC. SHALL MEET THE LATEST EDITION OF BOTH THE NATIONAL ELECTRICAL CODE AND NFPA 72.
2. ALL FIRE ALARM CIRCUITS SHALL BE SIZED TO A MAXIMUM OF 80% OF CAPACITY.
3. ALL FIRE ALARM CIRCUITS SHALL BE WIRED NFPA STYLE 4/Y/B (CLASS B) WITH THE EXCEPTION OF THE NETWORK CIRCUIT WHICH SHALL BE NFPA STYLE 7 (CLASS A WITH ISOLATION). DUAL CLASS B NETWORKING IS NOT STYLE 7 AND WILL NOT BE APPROVED. ALL AUDIBLE AND VISUAL CIRCUITS SHALL BE STYLE Y/CLASS B.
4. CONDUITS MAY NOT ENTER THE TOP OF ANY FIRE ALARM EQUIPMENT CABINET.
5. ALL FIRE ALARM CABINETS AND JUNCTION BOXES SHALL BE PAINTED FIRE DEPARTMENT RED. ALL FIRE ALARM CABINETS SHALL BE CLEARLY LABELED WITH A LAMINATE ENGRAVED LABEL.
6. ALL FIRE ALARM WIRE SHALL BE CLEARLY LABELED IN JUNCTION BOXES AND CABINETS. ALL TERMINALS SHALL BE NUMBERED AND LABELED. ALL CONNECTIONS SHALL BE EITHER SOLDERED, APPROVED TERMINAL STRIPS OR SCOTCH LOCKS.
7. ALL LOW VOLTAGE FIRE ALARM CONDUCTORS SHALL BE PROTECTED BY EITHER BUILDING CONSTRUCTION OR CONDUIT TO 8 FEET ABOVE THE FINISHED FLOOR. LOADING DOCKS, GARAGES, SUPPRESSION AND EXTINGUISHING SYSTEM WIRING, MECHANICAL AND ELECTRICAL ROOMS AND OTHER LOCATIONS SUBJECT TO MECHANICAL DAMAGE SHALL BE IN FULL RIGID CONDUIT. IN ALL OTHER AREAS, 2-HOUR RATED FIRE ALARM WIRE MAY BE RUN WITHOUT CONDUIT ABOVE 8 FT.
8. FIRE ALARM CABLES SHALL NOT BE MIXED WITH NON FIRE ALARM CABLING. LOW VOLTAGE FIRE ALARM CABLING SHALL NOT BE MIXED OR WIRED NEAR ANY AC CIRCUIT.
9. ALL LOW VOLTAGE WIRING SHALL BE FPLP 150 DEGREE C UL LISTED FIRE ALARM WIRE. ALL NOTIFICATION CIRCUITS SHALL BE A MINIMUM OF 14 AWG AND ALL OTHER LOW VOLTAGE FIRE ALARM CIRCUITS SHALL BE 16 AWG MINIMUM.
10. POLARITY SHALL BE OBSERVED ON ALL CIRCUITS. T-TAPPING SHALL NOT BE ALLOWED ON ANY NOTIFICATION CIRCUITS (HORN, STROBE OR SPEAKER). T-TAPPING SHALL NOT BE PERMITTED ON ADDRESSABLE CIRCUITS WITHOUT THE EXPRESS PERMISSION OF THE ENGINEER.
11. ALL WIRING SHALL BE INSPECTED TO ASSURE THERE ARE NO OPENS, SHORTS OR EARTH GROUNDS.
12. SHIELDED CONDUCTORS OR RUNNING IN SEPARATE RACEWAY SHALL BE AS INSTRUCTED BY THE FIRE ALARM MANUFACTURER'S DOCUMENTATION. ALL NON-POWER LIMITED WIRING, INCLUDING CIRCUITS FOR CENTRALIZED AMPLIFIERS SHALL BE RUN IN A SEPARATE RACEWAY (NOTE: CENTRALIZED AMPLIFIERS, ARE NOT PERMITTED ON NEW SYSTEMS).
13. A CENTRAL STATION DIALER AND TWO DEDICATED PHONE LINES SHALL BE PROVIDED. THE DIALER SHALL BE CAPABLE OF SENDING THE FOLLOWING EVENTS: ALARM, MANUAL STATION, WATERFLOW, SUPERVISORY, CARBON MONOXIDE, TROUBLE, PUMP RUNNING AND PUMP TROUBLE.
14. ALL AREA OR DUCT SMOKE DETECTORS SHALL BE PHOTO-ELECTRIC TYPE.
15. SMOKE DETECTORS MUST BE MOUNTED AT LEAST 3 FT AWAY FROM ANY AIR REGISTER.
16. DEVICE LOCATIONS MUST BE READILY ACCESSIBLE TO ALLOW FOR MAINTENANCE AND REPAIR.
17. DUCT MOUNTED SMOKE DETECTORS SHALL BE MOUNTED ON THE DUCTWORK IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. ALL DUCT DETECTORS SHALL BE PROVIDED WITH A REMOTE LED.
18. MANUAL PULL STATIONS SHALL BE MOUNTED 48 INCHES ABOVE THE FINISHED FLOOR TO THE HANDLE OF THE STATION AND SHALL BE PAINTED FIRE DEPARTMENT RED. ALL MANUAL STATION SHALL BE INSTALLED SO THAT THEY ARE KEPT UN-OBSTRUCTED AT ALL TIMES.
19. ALL STROBE LIGHTS SHALL BE UL-1971 APPROVED/LISTED. THE MINIMUM CANDELA IS 30 UNLESS OTHERWISE NOTED.
20. NOTIFICATION DEVICES THAT INCLUDE A STROBE SHALL BE MOUNTED 80 INCHES OFF THE FINISHED FLOOR TO THE BOTTOM OF THE STROBE, NOT NECESSARILY THE ELECTRICAL BOX.
21. ALL AUXILIARY RELAYS FOR FAN SHUTDOWN, DOOR RELEASE, DAMPER CONTROL, ELEVATOR CONTROL, ETC SHALL BE WIRED A MAXIMUM OF 3 FT FROM THE CONTROLLED DEVICE. THE AUXILIARY RELAY SHALL FUNCTION WITHIN THE REQUIRED VOLTAGE AND CURRENT OF THE CONTROLLED DEVICE. SLAVE OR INTERPOSING RELAYS SHALL BE INCLUDED AND POWERED BY THE FIRE ALARM CONTROL PANEL IN A FAIL-SAFE (FIRE FUNCTION) POSITION. POWER TO THE INTERPOSING RELAY SHALL BE MONITORED BY THE FIRE ALARM SYSTEM.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY AND ALL ABANDONED FIRE ALARM CABINETS, DEVICES, AND WIRE. PAINT, PATCH AND CLEANUP SHALL ALSO BE INCLUDED.
23. FOR APPLICATIONS REQUIRING A FIRE ALARM SYSTEM REPLACEMENT (FCC, FACP, OR SCP, SSCP ETC), THE CONTRACTOR SHALL BE RESPONSIBLE FOR INTERFACING THE NEW SYSTEM WITH THE OLD SYSTEM SO THAT THEY ACT AS ONE. ONCE SYSTEM APPROVAL IS GRANTED, THE CONTRACTOR SHALL THEN BE RESPONSIBLE FOR REMOVING THE OLD SYSTEM INCLUDING REMOVING OLD WIRE AND CONDUIT, PATCH, PAINT, AND CLEANUP. FIRE WATCH, IF NECESSARY, SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
24. CARBON MONOXIDE (CO) AND COMBINATION SMOKE AND CO DETECTORS SHALL BE FULLY ADDRESSABLE AND INCLUDE A SOUNDER BASE. MANUFACTURERS THAT DO NOT OFFER AN ADDRESSABLE CO OR SMOKE/CO TYPE DEVICE SHALL INCLUDE SEPARATE CO AND SMOKE DETECTORS, EACH WITH AN INTERNAL SYNCHRONIZED TEMPORAL 3 AND 4 SOUNDERS, AND THE NECESSARY MONITORING DEVICES SO THAT THE FIRE ALARM SYSTEM MAY MONITOR BOTH TYPES SEPARATELY. IF POWERED SEPARATELY (24VDC), POWER TO THE DEVICE SHALL ALSO BE SUPERVISED.
25. BOOSTER POWER SUPPLIES SHALL BE PROVIDED AS NECESSARY FOR STROBE CIRCUIT DRAW AND LENGTHY STROBE CIRCUIT RUNS. PROVIDE A SEPARATE 120V POWER FEED FOR EACH BOOSTER AS WELL AS A SMOKE DETECTOR MOUNTED DIRECTLY ABOVE IT.
26. ALL REMOTE FIRE ALARM CONTROL CABINETS (DATA GATHERING PANELS, TTBS ETC) SHALL INCLUDE AN INTERNAL TAMPER SWITCH. EACH SHALL ALSO INCLUDE A SMOKE DETECTOR MOUNTED ON THE CEILING DIRECTLY ABOVE IT SHOULD ONE OR MORE NOT ALREADY BE SHOWN ON THE PLANS IN THE ROOM THE PANEL IS MOUNTED IN.
27. REFER TO HVAC, FIRE PROTECTION, SECURITY AND FIRE ALARM FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF ALL FIRE ALARM DEVICES.
28. CONTRACTOR'S RESPONSIBILITY TO SHOW ALL WIRING, ZONING, ETC... IN SHOP DRAWINGS. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL DRAWING FOR ELEVATIONS, SECTIONS, MOUNTING HEIGHTS AND DETAILS. AS WELL AS COMPLY WITH CODE.
29. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID TWO DAYS FOR FIRE DEPARTMENT ACCEPTANCE AND TWO DAYS FOR OWNER ACCEPTANCE FOR EACH PHASE OF THIS PROJECT (COORDINATE WITH CONSTRUCTION MANAGER).
30. SUBMIT COMPLETE SHOP DRAWINGS FOR THE SYSTEM, INCLUDING WIRING DIAGRAMS, CATALOG CUTS OF ALL DEVICES, AND SYSTEM RISER DIAGRAM, BATTERY CALCULATION.
31. ELECTRICAL CONTRACTOR SHALL PERFORM ALL NECESSARY FIRE DEPARTMENT FILING. WORK SHALL NOT BE CONSIDERED COMPLETE UNLESS ALL NECESSARY FILING, TESTS, AND INSPECTIONS ARE COMPLETED AND APPROVED.
32. ELECTRICAL CONTRACTOR SHALL FIRE STOP ALL CONDUIT PENETRATIONS THROUGH FIRE RATED PARTITIONS AND SLABS.
33. PROVIDE A SIGN AT THE ENTRANCE TO THE BUILDING & ENTRANCE INDICATING THE LOCATION OF THE MAIN FIRE ALARM CONTROL PANEL.
34. COORDINATE LOCATIONS OF ALL DEVICES AND CONDUIT ROUTING WITH ARCHITECT PRIOR TO ANY WORK AND INSTALLATION.
35. ALL COMBINATION AUDIBLE/VISUAL ALARM UNITS AND VISUAL(STROBE UNITS) SHALL BE WALL MOUNTED AT NO HIGHER THAN 80" A.F.F. ALL STROBE LIGHTS WITHIN A COMMON VISUAL ZONE SHALL BE SYNCHRONIZED. ALL MANUAL PULL STATIONS, BEAM DETECTORS, SOUNDING AND VISUAL ALARM DEVICES AND FIRE ALARM PANEL SHALL BE KEPT UNOBSTRUCTED ALL ALL TIMES.
36. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL PROGRAMMING, WIRE AND DEVICES REQUIRED TO INTERFACE SPRINKLER, HVAC, ELEVATOR AND SECURITY SYSTEMS WITH ADDRESSABLE COMPONENTS OF THE FIRE ALARM SYSTEM.
37. REFER TO ELECTRICAL DRAWINGS FOR POWER SUPPLY TO THE FIRE ALARM SYSTEM.
38. PROVIDE FINAL AS PER INSTALLATION WIRING DIAGRAM & INSTRUCTIONS OF THE FIRE ALARM SYSTEM MOUNTED SECURELY INSIDE THE FIRE ALARM CONTROL PANEL.
39. CONTRACTOR TO REVIEW HVAC, SECURITY, AND OTHER CONSULTANT DRAWINGS, THESE INCLUDES BUT NOT LIMITED TO SMOKE DAMPERS, FIRE SMOKE DAMPERS, ELEVATOR CONTROLS, FIRE DOORS HARDWARE AND CONTROLS, MOTORIZED DOOR & WINDOWS, ETC.. THEY SHALL CONTROL AND RECEIVE STATUS INDICATION (OPEN & CLOSED) FOR EACH ASSOCIATED CONTROL CIRCUITS. INTERFACE WITH THE FIRE ALARM SYSTEM AS REQUIRED BY CODE AND PROVIDE RELAYS/CONTROL MODULES FOR FIRE ALARM SYSTEM CONTROL FOR THE STARTING AND STOPPING OF ALL LIFE SAFETY RELATED SMOKE EXHAUST, SMOKE PURGE AND CONTROLLING FANS/MOTORS WITH EACH ASSOCIATED CONTROL WIRING.
40. PROVIDE 20A, 1P, 120V CIRCUIT TO ALL FIRE SMOKE DAMPERS FROM EMERGENCY SOURCE PANEL AND SHALL BE TIE-IN WITH FIRE ALARM SYSTEM. CONTRACTOR SHALL COORDINATE QUANTITY AND LOCATIONS OF ALL FIRE SMOKE DAMPERS (FSD's) WITH HVAC DRAWINGS. REFER TO ELECTRICAL DRAWING FOR FSD'S CIRCUITRY. THE CONTRACTOR SHALL REVIEW HVAC DRAWINGS AND SCHEDULES FOR ALL DUCT SIZES. IF DUCT SIZE REQUIRES MORE THAN ONE DETECTORS OR LONGER SAMPLING TUBE, THEY SHALL PROVIDE ADDITIONAL DEVICES OR LONGER SAMPLING TUBES TO SATISFY NFPA AND BUILDING CODE REQUIREMENTS. THIS SHALL BE PROVIDED AS PART OF BASE BID FOR A COMPLETE CODE COMPLIANT SYSTEM.
41. ALL OUTDOOR FIRE ALARM DEVICES SHALL BE WEATHERPROOF TYPE.
42. ALL FIRE ALARM EQUIPMENT SHALL BE KEPT UNOBSTRUCTED ALL TIMES.
43. ALL FIRE ALARM CABLING SHALL BE 2 HOUR FIRE RATED.

PUBLIC ADDRESS AND MASTER CLOCK SYSTEM MODIFICATION NOTES

1. EC TO PROVIDE EQUIPMENT, DEVICES, CABLING/RACEWAY AND COMPONENTS FULLY COMPATIBLE WITH EXISTING SYSTEMS.
2. BASIC MATERIALS AND METHODS REQUIRED TO INSTALL ALL INDICATED SYSTEM MODIFICATIONS SHALL BE SUBJECT TO THE REQUIREMENTS OF APPLICABLE DIVISION 26 SPECIFICATION SECTIONS.
3. EC SHALL BE RESPONSIBLE FOR SECURING THE SERVICES OF THE SYSTEM'S LOCAL SERVICE ORGANIZATION ON CONTRACT WITH THE DISTRICT TO PERFORM FINAL DEVICE/EQUIPMENT CONNECTIONS TO EXISTING HEAD-END CONSOLE EQUIPMENT AND ALL REQUIRED ACCEPTANCE TESTING/COMMISSIONING/CLOSEOUT OF ALL SYSTEM MODIFICATION WORK.

FIRE ALARM SEQUENCE OF OPERATION

A. ACTIVATION OF A MANUAL PULL STATION WILL DO THE FOLLOWING:
   a. ANNUNCIATE THE DEVICE IN ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL.
   b. SHUTDOWN ALL FANS GREATER THAN 1000 C.F.M. AND CLOSE ASSOCIATED FIRE SMOKE DAMPERS AND SMOKE DAMPERS.
   c. ACTIVATE HORN AND STROBES.
   d. SOUND AN AUDIBLE ALARM TONE WITHIN ZONE CONTAINING INITIATING FIRE ALARM SIGNAL.
   e. SEND A PULL STATION ALARM SIGNAL TO THE FACP.

B. ACTIVATION OF AN AREA SMOKE DETECTOR OR DUCT DETECTOR WILL DO THE FOLLOWING:
   a. ANNUNCIATE THE DEVICE IN ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL.
   b. SHUTDOWN ALL FANS GREATER THAN 1000 C.F.M. AND CLOSE ASSOCIATED FIRE SMOKE DAMPERS AND SMOKE DAMPERS.
   c. ACTIVATE HORN AND STROBES.
   d. SOUND AN AUDIBLE ALARM TONE WITHIN ZONE CONTAINING INITIATING FIRE ALARM SIGNAL.
   e. SEND A SMOKE ALARM SIGNAL TO THE FACP.
   f. SEND SIGNAL TO BMS SYSTEM TO BEGIN SMOKE EXHAUST SEQUENCE.
   g. OPERATE ALL DOOR RELEASES AT EGRESS DOORS.

C. ACTIVATION OF A WATERFLOW SWITCH WILL DO THE FOLLOWING:
   a. ANNUNCIATE THE DEVICE IN ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL
   b. SHUTDOWN ALL FANS GREATER THAN 1000 C.F.M. AND CLOSE ASSOCIATED FIRE SMOKE DAMPERS AND SMOKE DAMPERS.
   c. ACTIVATE HORN AND STROBES.
   d. SOUND AN AUDIBLE ALARM TONE WITHIN ZONE CONTAINING INITIATING FIRE ALARM SIGNAL.
   e. SEND A WATERFLOW ALARM SIGNAL TO THE FACP
   f. OPERATE ALL DOOR RELEASES AT EGRESS DOORS.

D. ACTIVATION OF A TAMPER SWITCH WILL DO THE FOLLOWING:
   a. ANNUNCIATE THE DEVICE IN ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL
   b. SEND A SUPERVISORY SIGNAL TO THE FACP.

E. OPERATION OF A KITCHEN HOOD EXHAUST SYSTEM MONITORING DEVICE WILL DO THE FOLLOWING:
   a. ANNUNCIATE THE DEVICE IN ALARM ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL.
   b. ACTIVATE AUDIBLE ALARM TONE WITHIN ZONE CONTAINING INITIATING FIRE ALARM SIGNAL.
   c. SEND A SMOKE ALARM SIGNAL TO THE FACP.
   d. SEND SIGNAL TO BMS SYSTEM AND/OR KITCHEN HOOD CONTROL PANEL TO BEGIN SMOKE EXHAUST SEQUENCE.
   e. OPERATE ALL DOOR RELEASES AT EGRESS DOORS.

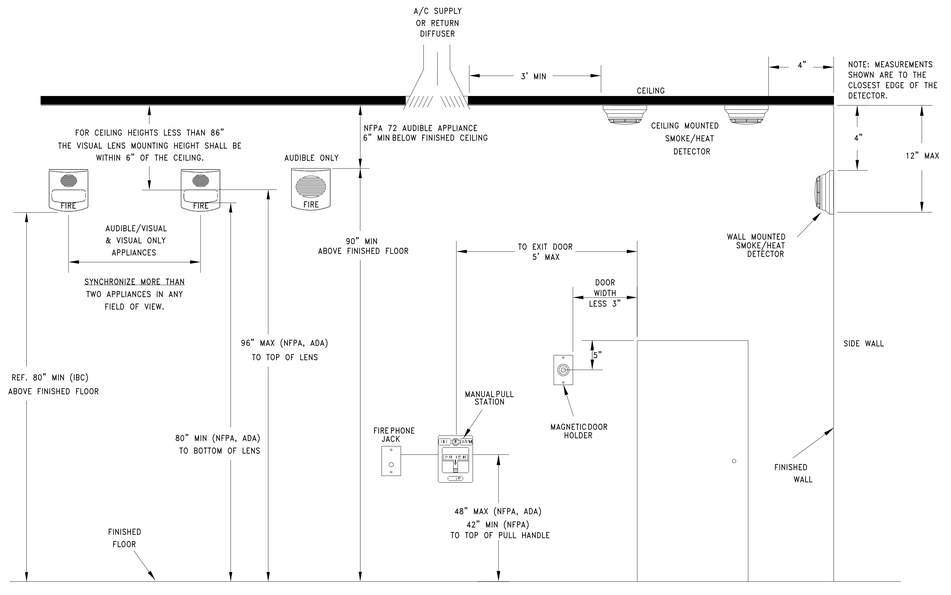
F. ACTIVATION OF A CARBON MONOXIDE DETECTOR WILL DO THE FOLLOWING:
   a. INITIATE A DISTINCT CARBON MONOXIDE DETECTOR SUPERVISORY SIGNAL FOR CORRESPONDING DETECTOR ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL.
   b. ACTIVATE DISTINCT LOCAL CARBON MONOXIDE DETECTOR HORN/STROBE DEVICES FOR ASSOCIATED DETECTOR IN ALARM CONDITION.
   c. ACTIVATE CARBON DETECTOR SOUND BASE (IF PRESENT).
   d. SEND A DISTINCT CARBON MONOXIDE DETECTOR SUPERVISORY SIGNAL TO THE FACP.

G. A CARBON MONOXIDE DETECTOR IN A TROUBLE CONDITION WILL DO THE FOLLOWING:
   a. INITIATE A DISTINCT CARBON MONOXIDE DETECTOR TROUBLE SIGNAL FOR CORRESPONDING DETECTOR ON AN ENGLISH LANGUAGE DISPLAY AT THE FIRE ALARM PANEL.
   b. SEND A DISTINCT CARBON MONOXIDE DETECTOR TROUBLE SIGNAL TO THE FACP.

GENERAL NOTES:

1. NEW FIRE ALARM DEVICES TO MATCH EXISTING FIRE ALARM DEVICES. COORDINATE REQUIREMENTS WITH FIRE ALARM VENDOR FOR BUILDING.
2. PROVIDE BOOSTERS, POWER EXTENDERS AND END OF LINE RESISTORS AS NEEDED.
3. REMOTE POWER SUPPLIES SHOULD BE ACCESSIBLE AND LOCATED IN ELECTRICAL ROOMS OR CLOSETS.
4. REFER TO POWER DRAWINGS FOR POWER CONNECTION TO FIRE ALARM PANELS AND EQUIPMENT.

FIRE ALARM DEVICE MOUNTING HEIGHT REFERENCE (PER NFPA 72)



SECURITY

CR	CARD READER
DC	DOOR CONTACT
DR	REMOTE DOOR RELEASE
EL	ELECTRONIC LOCK
ES	ELECTRONIC STRIKE
IC	INTERCOM SYSTEM, SUBSCRIPT DENOTES: M – MASTER STATION V – VIDEO INTERCOM
KP	KEYPAD
ML	MAGNETIC LOCK
MS	MOTION SENSOR
PB	PANIC BUTTON / HOLD-UP / DURESS ALARM
RTE	REQUEST TO EXIT
	SECURITY CAMERA, CEILING MOUNTED
	SECURITY CAMERA, WALL MOUNTED

DATA & COMMUNICATION

▽#	DATA OUTLET BOX #=NUMBER OF CAT6A CABLES TO BE PROVIDED
▼	TELEPHONE OUTLET BOX
▽▼	COMBINATION TELEPHONE/DATA OUTLET BOX
▽	DATA OUTLET BOX – IN CEILING
▽	DATA OUTLET BOX – IN FLOOR BOX
WAP	WIRELESS ACCESS POINT
	DATA EQUIPMENT RACK
S	PUBLIC ADDRESS SYSTEM SPEAKER, WALL MOUNTED
S	PUBLIC ADDRESS SYSTEM SPEAKER, IN CEILING
C	MASTER CLOCK, WALL MOUNTED
PA	PUBLIC ADDRESS SYSTEM HEAD-END

FIRE ALARM

S	SMOKE DETECTOR, CEILING MOUNTED, SUBSCRIPT DENOTES: E – ELEVATOR RECALL D – DUCT DETECTOR BR – BEAM DETECTOR (RECIEVER) BT – BEAM DETECTOR (TRANSMITTER)
S	SMOKE DETECTOR, WALL MOUNTED
H	HEAT DETECTOR, CEILING MOUNTED
H	HEAT DETECTOR, WALL MOUNTED
CO	CARBON MONOXIDE DETECTOR, CEILING MOUNTED
CO	CARBON MONOXIDE DETECTOR WITH SOUNDER BASE, WALL MOUNTED
G	GAS DETECTOR, CEILING MOUNTED
G	GAS DETECTOR WITH SOUNDER BASE, WALL MOUNTED
V	FIRE ALARM STROBE, WALL MOUNTED, SUBSCRIPT DENOTES: # – CANDELA RATING WG – WIRE GUARD WP – WEATHER PROOF CO – REMOTE STROBE FOR CO DETECTOR
V	FIRE ALARM STROBE, CEILING MOUNTED
S	FIRE ALARM COMBINATION SPEAKER/STROBE, WALL MOUNTED
S	FIRE ALARM COMBINATION SPEAKER/STROBE, CEILING MOUNTED
H	FIRE ALARM COMBINATION HORN/STROBE, WALL MOUNTED
H	FIRE ALARM COMBINATION HORN/STROBE, CEILING MOUNTED
S	FIRE ALARM SPEAKER, WALL MOUNTED
S	FIRE ALARM SPEAKER, CEILING MOUNTED
H	FIRE ALARM HORN, WALL MOUNTED
H	FIRE ALARM HORN, CEILING MOUNTED
B	BELL, WALL MOUNTED
F	MANUAL PULL STATION
W	SPRINKLER WATER FLOW SWITCH
T	SPRINKLER TAMPER SWITCH
R	FIRE ALARM RELAY
SR	FIRE ALARM SHUTDOWN RELAY
DH	DOOR HOLDER
AR	AREA OF REFUGE
FSD	FIRE/SMOKE DAMPER
SD	SMOKE DAMPER
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FDGP	FIRE ALARM DATA GATHERING PANEL
ARC	AREA OF REFUGE CENTRAL COMMUNICATION

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PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

Project Title

STATE OF NEW YORK
JAMES R. BARRETT
073467
LICENSED PROFESSIONAL ENGINEER
EXPIRES 5/31/2026

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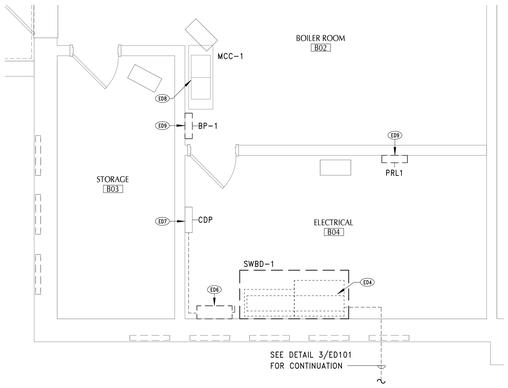
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SYSTEMS NOTES, LEGENDS AND ABBREVIATIONS

Sheet No.
PES
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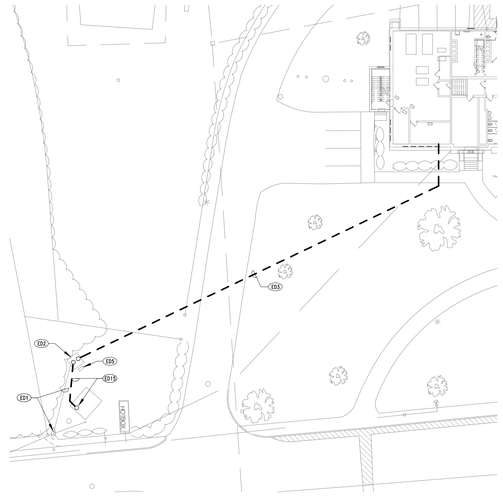
CONSTRUCTION DOCUMENTS

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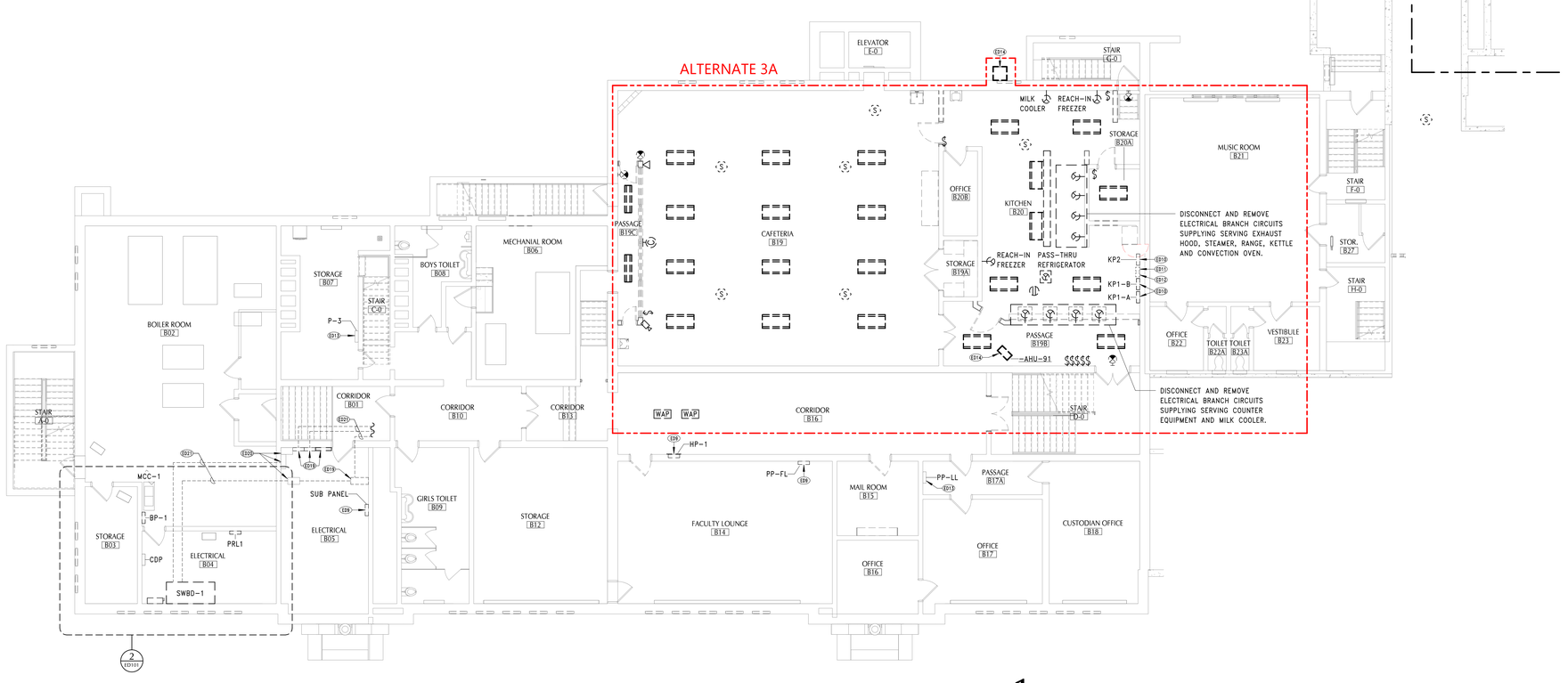
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2 PARTIAL GROUND FLOOR DEMOLITION PLAN
ED101 1/4" = 1'-0"



3 PARTIAL SITE DEMOLITION PLAN
ED101 1" = 30'-0"



1 DEMOLITION GROUND FLOOR PLAN - AREA '1'
ED101 1/8" = 1'-0"

SHEET NOTES

A. BEFORE REMOVAL OR MODIFICATION OF ANY EXISTING CIRCUITS, FIELD VERIFY IF CIRCUITS FEED OTHER AREAS OF THE BUILDING REQUIRED TO REMAIN ENERGIZED DURING CONSTRUCTION.

B. ALL EXISTING WIRING AND CONDUIT TO ELECTRICAL ITEMS SHOWN AS DEMOLISHED-ON THIS DRAWING SHALL BE REMOVED IN IT'S ENTIRETY BACK TO SOURCE PANELBOARD. LABEL CIRCUIT BREAKER AS SPARE IN EXISTING PANELBOARD DIRECTORY.

C. WHERE REQUIRED TO DISCONNECT OR MODIFY PART OF AN EXISTING CIRCUIT SERVING AREAS OUTSIDE OF THE DEMOLITION SCOPE, THE CIRCUIT SHALL BE RECONNECTED AND MODIFIED TO MAINTAIN CONTINUITY.

D. MAINTAIN CONTINUITY OF ALL EXISTING TO REMAIN BRANCH CIRCUITS.

E ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROGRAMMING OF THE EXISTING FIRE ALARM SYSTEM TO ACCOUNT FOR THE REMOVAL OF DEVICES FROM THE EXISTING FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY FIRE WATCHES IN AREAS WITHOUT COVERAGE WHEN FIRE ALARM SYSTEM IS OFF LINE.

F. DISCONNECT ELECTRICAL CONNECTIONS TO MECHANICAL AND OTHER EQUIPMENT BEING REMOVED BY OTHER TRADES.

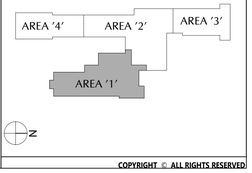
G. REMOVE ABANDONED RACEWAYS, BOXES, SUPPORTS, ETC. WHERE EXPOSED (INCLUDING THOSE LOCATED ABOVE EXISTING SUSPENDED CEILING) AND WHERE THEY INTERFERE WITH WORK OF ANY TRADE.

H. PROVIDE ALL BUILDING SURFACE RESTORATION OF EXISTING PENETRATIONS ASSOCIATED WITH REQUIRED ELECTRICAL DEMOLITION WORK. PATCH AND PAINT TO MATCH SURROUNDING EXISTING SURFACES AS NECESSARY. FOR PENETRATIONS LEFT IN FIRE RATED CONSTRUCTION, PROVIDE REQUIRED FIRESTOPPING PER SPECIFICATION SECTION 078413.

KEY NOTES

ED1	EXISTING UNDERGROUND 15KV, 3 PHASE PRIMARY ELECTRIC SERVICE FEEDER FROM EXISTING NEW YORK STATE ELECTRIC & GAS (NYSEG). OVERHEAD POWER DISTRIBUTION RISER POLE TO REMAIN.
ED2	EXISTING NYSEG OWNED PAD MOUNTED TRANSFORMER – 7.62/13.2Y KV:208Y/120V, 3 PHASE, 4 WIRE 150KVA. UPON TRANSITION OF BUILDING ELECTRIC SERVICE ENTRANCE CONNECTION FROM UTILITY TO REPLACEMENT ELECTRICAL EQUIPMENT AND EXISTING PAD MOUNTED TRANSFORMER HAS BEEN REMOVED BY THE UTILITY, REMOVE CONCRETE PAD, CURBING AND ASSOCIATED GROUNDING. PROVIDE COMPLETE SITE RESTORATION OF EXISTING PAD MOUNTED TRANSFORMER LOCATION.
ED3	DISCONNECT AND REMOVE EXISTING UNDERGROUND 208/120V, 3 PHASE SECONDARY ELECTRIC SERVICE FEEDER – (3) SETS OF (4-500 MCM IN 4" CONDUIT). CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING UNDERGROUND SERVICE LOCATOR SERVICES AS REQUIRED TO ACCURATELY IDENTIFY EXISTING ROUTE/BURIAL DEPTH. PROVIDE COMPLETE SITE RESTORATION OF EXISTING UNDERGROUND ELECTRIC SERVICE FEEDER TRENCHING.
ED4	DISCONNECT AND REMOVE EXISTING MAIN ELECTRIC SERVICE ENTRANCE SWITCHBOARD. UNLESS INDICATED OTHERWISE MAINTAIN ALL EXISTING ACTIVE POWER DISTRIBUTION FEEDERS FOR REUSE AND RECONNECTION TO REPLACEMENT ELECTRIC SERVICE ENTRANCE SWITCHBOARD. REFER TO DEMO RISER DIAGRAM FOR FULL DETAIL.
ED5	DISCONNECT AND REMOVE EXISTING ELECTRIC SERVICE METER SOCKET ENCLOSURES. REFER TO DEMOLITION RISER DIAGRAM - DRAWING PES ED501. TURN METER OVER TO NYSEG.
ED6	DISCONNECT AND REMOVE EXISTING 3 POLE, 400 AMP, 208/120 VOLT DISCONNECT SWITCH WITH ASSOCIATED LINE AND LOAD SIDE POWER CONNECTIONS. TURN SWITCH OVER TO THE SCHOOL DISTRICT.
ED7	EXISTING PANEL "CDP" TO BE MAINTAINED FOR REUSE. DISCONNECT AND REMOVE POWER SUPPLY FEEDER. MAINTAIN ALL EXISTING BRANCH CIRCUIT WIRING.
ED8	EXISTING 600 AMP, 208/120 VOLT DOUBLE SECTION MOTOR CONTROL CENTER TO REMAIN. MAINTAIN SUPPLY FEEDER AND ALL EXISTING ACTIVE BRANCH CIRCUIT WIRING FOR REUSE.
ED9	DISCONNECT AND REMOVE EXISTING PANEL AND SUPPLY FEEDER BACK TO SOURCE. UNLESS INDICATED OTHERWISE, MAINTAIN ALL EXISTING BRANCH CIRCUIT WIRING FOR RECONNECTION TO REPLACEMENT PANEL.
ED10	DISCONNECT AND REMOVE EXISTING PANEL. DISCONNECT AND REMOVE PANEL SUPPLY FEEDER AND ALL EXISTING BRANCH CIRCUIT WIRING.
ED11	DISCONNECT AND REMOVE BANK OF (3)-EXISTING 2 KVA BOOST DRY TYPE TRANSFORMERS.
ED12	DISCONNECT AND REMOVE EXISTING MOTOR CONTROLLER ENCLOSURE WITH ALL LINE AND LOAD SIDE WIRING.
ED13	EXISTING PANEL, ASSOCIATED SUPPLY FEEDER AND ALL BRANCH CIRCUIT WIRING TO BE MAINTAINED FOR REUSE UNLESS OTHERWISE NOTED.
ED14	DISCONNECT POWER FROM EXISTING HVAC EQUIPMENT. REMOVE BRANCH CIRCUIT WIRE AND CONDUIT BACK TO POWER SOURCE PANELBOARD.
ED15	DISCONNECT AND REMOVE UNDERGROUND ELECTRIC SERVICE TO EXISTING SEWAGE PUMP STATION. REFER TO DEMOLITION RISER DIAGRAM - DRAWING PES ED501. DISCONNECT AND REMOVE EXISTING NYSEG METER SOCKET ENCLOSURE. TURN EXISTING METER OVER TO NYSEG.
ED19	DISCONNECT AND REMOVE EXISTING ELECTRICAL SPLICE/JUNCTION ENCLOSURES WITH ASSOCIATED LINE (TO MAIN ELECTRICAL SWITCHBOARD) AND LOAD SIDE (BRANCH PANELBOARDS) POWER CONNECTIONS INDICATED. REFER TO DEMOLITION RISER DIAGRAM - DRAWING PES ED501. MAINTAIN INDICATED EXISTING FEEDER CONDUCTORS TO REMAIN FOR RECONNECTION TO REPLACEMENT SWITCHBOARD.
ED20	EXISTING 12 INCH SQUARE FEEDER WIREWAY ASSEMBLIES TO REMAIN.
ED21	UNLES OTHERWISE NOTED, DISCONNECT AND REMOVE EXISTING FEEDER CONDUCTORS/CONDUITS. REFER TO DRAWING ED501 - DEMOLITION RISER DIAGRAM.

KEY PLAN



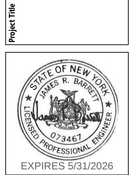
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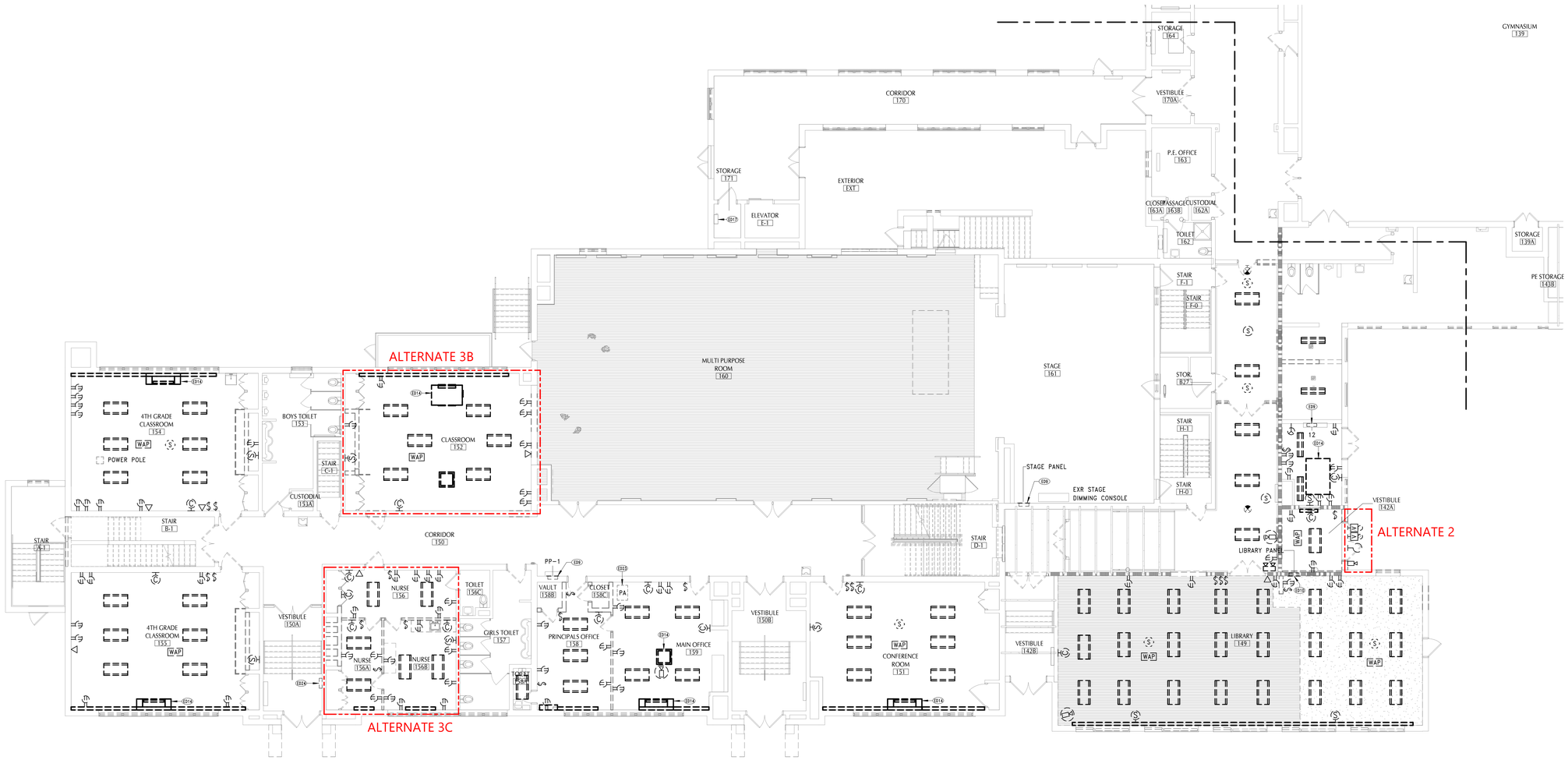
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Sheet Title
GROUND FLOOR DEMOLITION PLAN - AREA '1'

Sheet No.
PES
ED101

CONSTRUCTION DOCUMENTS

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1 DEMOLITION FIRST FLOOR PLAN - AREA '1'
ED111 1/8" = 1'-0"

SHEET NOTES

A. BEFORE REMOVAL OR MODIFICATION OF ANY EXISTING CIRCUITS, FIELD VERIFY IF CIRCUITS FEED OTHER AREAS OF THE BUILDING REQUIRED TO REMAIN ENERGIZED DURING CONSTRUCTION.

B. ALL EXISTING WIRING AND CONDUIT TO ELECTRICAL ITEMS SHOWN AS DEMOLISHED–ON THIS DRAWING SHALL BE REMOVED IN IT'S ENTIRETY BACK TO SOURCE PANELBOARD. LABEL CIRCUIT BREAKER AS SPARE IN EXISTING PANELBOARD DIRECTORY.

C. WHERE REQUIRED TO DISCONNECT OR MODIFY PART OF AN EXISTING CIRCUIT SERVING AREAS OUTSIDE OF THE DEMOLITION SCOPE, THE CIRCUIT SHALL BE RECONNECTED AND MODIFIED TO MAINTAIN CONTINUITY.

D. MAINTAIN CONTINUITY OF ALL EXISTING TO REMAIN BRANCH CIRCUITS.

E ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROGRAMMING OF THE EXISTING FIRE ALARM SYSTEM TO ACCOUNT FOR THE REMOVAL OF DEVICES FROM THE EXISTING FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY FIRE WATCHES IN AREAS WITHOUT COVERAGE WHEN FIRE ALARM SYSTEM IS OFF LINE.

F. DISCONNECT ELECTRICAL CONNECTIONS TO MECHANICAL AND OTHER EQUIPMENT BEING REMOVED BY OTHER TRADES.

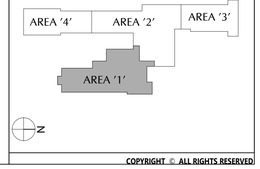
G. REMOVE ABANDONED RACEWAYS, BOXES, SUPPORTS, ETC. WHERE EXPOSED (INCLUDING THOSE LOCATED ABOVE EXISTING SUSPENDED CEILING) AND WHERE THEY INTERFERE WITH WORK OF ANY TRADE.

H. PROVIDE ALL BUILDING SURFACE RESTORATION OF EXISTING PENETRATIONS ASSOCIATED WITH REQUIRED ELECTRICAL DEMOLITION WORK. PATCH AND PAINT TO MATCH SURROUNDING EXISTING SURFACES AS NECESSARY. FOR PENETRATIONS LEFT IN FIRE RATED CONSTRUCTION, PROVIDE REQUIRED FIRESTOPPING PER SPECIFICATION SECTION 078413.

KEY NOTES

ED9	DISCONNECT AND REMOVE EXISTING PANEL AND SUPPLY FEEDER BACK TO SOURCE. UNLESS INDICATED OTHERWISE, MAINTAIN ALL EXISTING BRANCH CIRCUIT WIRING FOR RECONNECTION TO REPLACEMENT PANEL.
ED10	DISCONNECT AND REMOVE EXISTING PANEL. DISCONNECT AND REMOVE PANEL SUPPLY FEEDER AND ALL EXISTING BRANCH CIRCUIT WIRING.
ED14	DISCONNECT POWER FROM EXISTING HVAC EQUIPMENT. REMOVE BRANCH CIRCUIT WIRE AND CONDUIT BACK TO POWER SOURCE PANELBOARD.
ED17	EXISTING ELEVATOR POWER DISCONNECT SWITCH AND ASSOCIATED SUPPLY FEEDER TO BE MAINTAINED FOR REUSE.
ED23	DISCONNECT, REMOVE AND RELOCATE EXISTING PUBLIC ADDRESS MAIN CONSOLE. STORE EQUIPMENT ONSITE WHERE DIRECTED. DISCONNECT AND REMOVE EXISTING ASSOCIATED POWER BRANCH WIRING AND ASSOCIATED RACEWAYS BACK TO SOURCE PANELBOARD. MAINTAIN ALL ACTIVE SYSTEM CONTROL AND AUDIO SPEAKER CABLE CONNECTIONS FOR EXTENSION AND RECONNECTION TO RELOCATED CONSOLE.
ED24	EXISTING FIRE ALARM CONTROL PANEL (FACP). MAINTAIN FOR REUSE.

KEY PLAN



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PAWLING ELEMENTARY SCHOOL
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LICENSED PROFESSIONAL ENGINEER
EXPIRES 5/31/2026

No.	DATE	DESCRIPTION

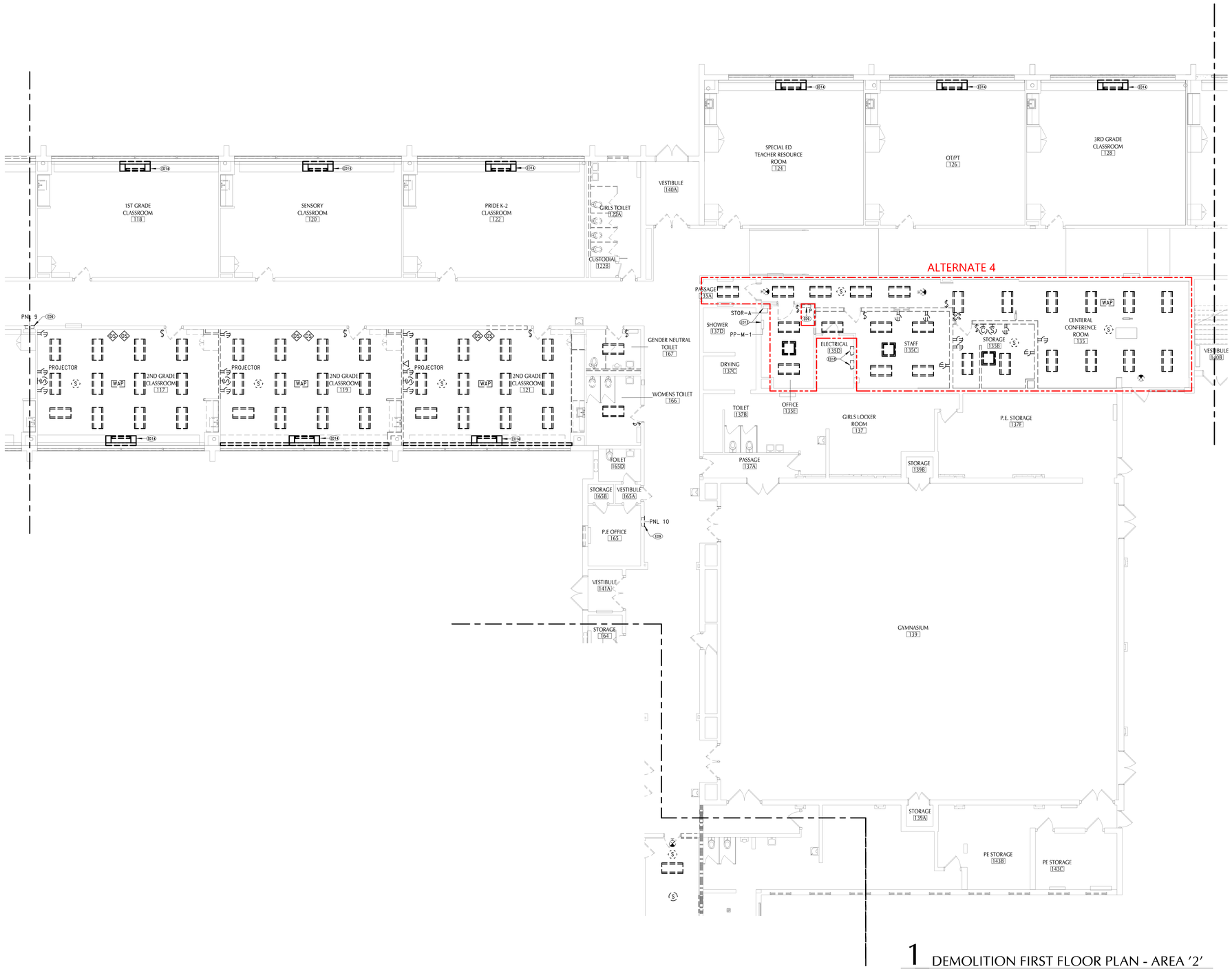
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Sheet Title
FIRST FLOOR DEMOLITION PLAN - AREA '1'

Sheet No.
PES
ED111

CONSTRUCTION DOCUMENTS

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1 DEMOLITION FIRST FLOOR PLAN - AREA '2'
ED112 1/8" = 1'-0"

SHEET NOTES

A. BEFORE REMOVAL OR MODIFICATION OF ANY EXISTING CIRCUITS, FIELD VERIFY IF CIRCUITS FEED OTHER AREAS OF THE BUILDING REQUIRED TO REMAIN ENERGIZED DURING CONSTRUCTION.

B. ALL EXISTING WIRING AND CONDUIT TO ELECTRICAL ITEMS SHOWN AS DEMOLISHED—ON THIS DRAWING SHALL BE REMOVED IN IT'S ENTIRETY BACK TO SOURCE PANELBOARD. LABEL CIRCUIT BREAKER AS SPARE IN EXISTING PANELBOARD DIRECTORY.

C. WHERE REQUIRED TO DISCONNECT OR MODIFY PART OF AN EXISTING CIRCUIT SERVING AREAS OUTSIDE OF THE DEMOLITION SCOPE, THE CIRCUIT SHALL BE RECONNECTED AND MODIFIED TO MAINTAIN CONTINUITY.

D. MAINTAIN CONTINUITY OF ALL EXISTING TO REMAIN BRANCH CIRCUITS.

E ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROGRAMMING OF THE EXISTING FIRE ALARM SYSTEM TO ACCOUNT FOR THE REMOVAL OF DEVICES FROM THE EXISTING FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY FIRE WATCHES IN AREAS WITHOUT COVERAGE WHEN FIRE ALARM SYSTEM IS OFF LINE.

F. DISCONNECT ELECTRICAL CONNECTIONS TO MECHANICAL AND OTHER EQUIPMENT BEING REMOVED BY OTHER TRADES.

G. REMOVE ABANDONED RACEWAYS, BOXES, SUPPORTS, ETC. WHERE EXPOSED (INCLUDING THOSE LOCATED ABOVE EXISTING SUSPENDED CEILING) AND WHERE THEY INTERFERE WITH WORK OF ANY TRADE.

H. PROVIDE ALL BUILDING SURFACE RESTORATION OF EXISTING PENETRATIONS ASSOCIATED WITH REQUIRED ELECTRICAL DEMOLITION WORK. PATCH AND PAINT TO MATCH SURROUNDING EXISTING SURFACES AS NECESSARY. FOR PENETRATIONS LEFT IN FIRE RATED CONSTRUCTION, PROVIDE REQUIRED FIRESTOPPING PER SPECIFICATION SECTION 078413.

KEY NOTES

ED9	DISCONNECT AND REMOVE EXISTING PANEL AND SUPPLY FEEDER BACK TO SOURCE. UNLESS INDICATED OTHERWISE, MAINTAIN ALL EXISTING BRANCH CIRCUIT WIRING FOR RECONNECTION TO REPLACEMENT PANEL.
ED13	EXISTING PANEL, ASSOCIATED SUPPLY FEEDER AND ALL BRANCH CIRCUIT WIRING TO BE MAINTAINED FOR REUSE UNLESS OTHERWISE NOTED.
ED14	DISCONNECT POWER FROM EXISTING HVAC EQUIPMENT. REMOVE BRANCH CIRCUIT WIRE AND CONDUIT BACK TO POWER SOURCE PANELBOARD.
ED18	DISCONNECT AND REMOVE EXISTING 3 POLE, 100 AMP, 208/120 VOLT DISCONNECT SWITCHES, LINE (TO MAIN ELECTRICAL SWITCHBOARD) AND LOAD SIDE (TO PANELBOARDS 'N' & 'S') POWER CONNECTIONS WITH ASSOCIATED WIREWAY.

KEY PLAN



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PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

Project Title

STATE OF NEW YORK
JAMES R. BARRETT
073467
LICENSED PROFESSIONAL ENGINEER
EXPIRES 5/31/2026

#	DATE	DESCRIPTION

Drawn By:	NDH
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Sheet Title

FIRST FLOOR DEMOLITION PLAN - AREA '2'

Sheet No.

PES
ED112

CONSTRUCTION DOCUMENTS

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SHEET NOTES

A. BEFORE REMOVAL OR MODIFICATION OF ANY EXISTING CIRCUITS, FIELD VERIFY IF CIRCUITS FEED OTHER AREAS OF THE BUILDING REQUIRED TO REMAIN ENERGIZED DURING CONSTRUCTION.

B. ALL EXISTING WIRING AND CONDUIT TO ELECTRICAL ITEMS SHOWN AS DEMOLISHED—ON THIS DRAWING SHALL BE REMOVED IN IT'S ENTIRETY BACK TO SOURCE PANELBOARD. LABEL CIRCUIT BREAKER AS SPARE IN EXISTING PANELBOARD DIRECTORY.

C. WHERE REQUIRED TO DISCONNECT OR MODIFY PART OF AN EXISTING CIRCUIT SERVING AREAS OUTSIDE OF THE DEMOLITION SCOPE, THE CIRCUIT SHALL BE RECONNECTED AND MODIFIED TO MAINTAIN CONTINUITY.

D. MAINTAIN CONTINUITY OF ALL EXISTING TO REMAIN BRANCH CIRCUITS.

E ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROGRAMMING OF THE EXISTING FIRE ALARM SYSTEM TO ACCOUNT FOR THE REMOVAL OF DEVICES FROM THE EXISTING FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY FIRE WATCHES IN AREAS WITHOUT COVERAGE WHEN FIRE ALARM SYSTEM IS OFF LINE.

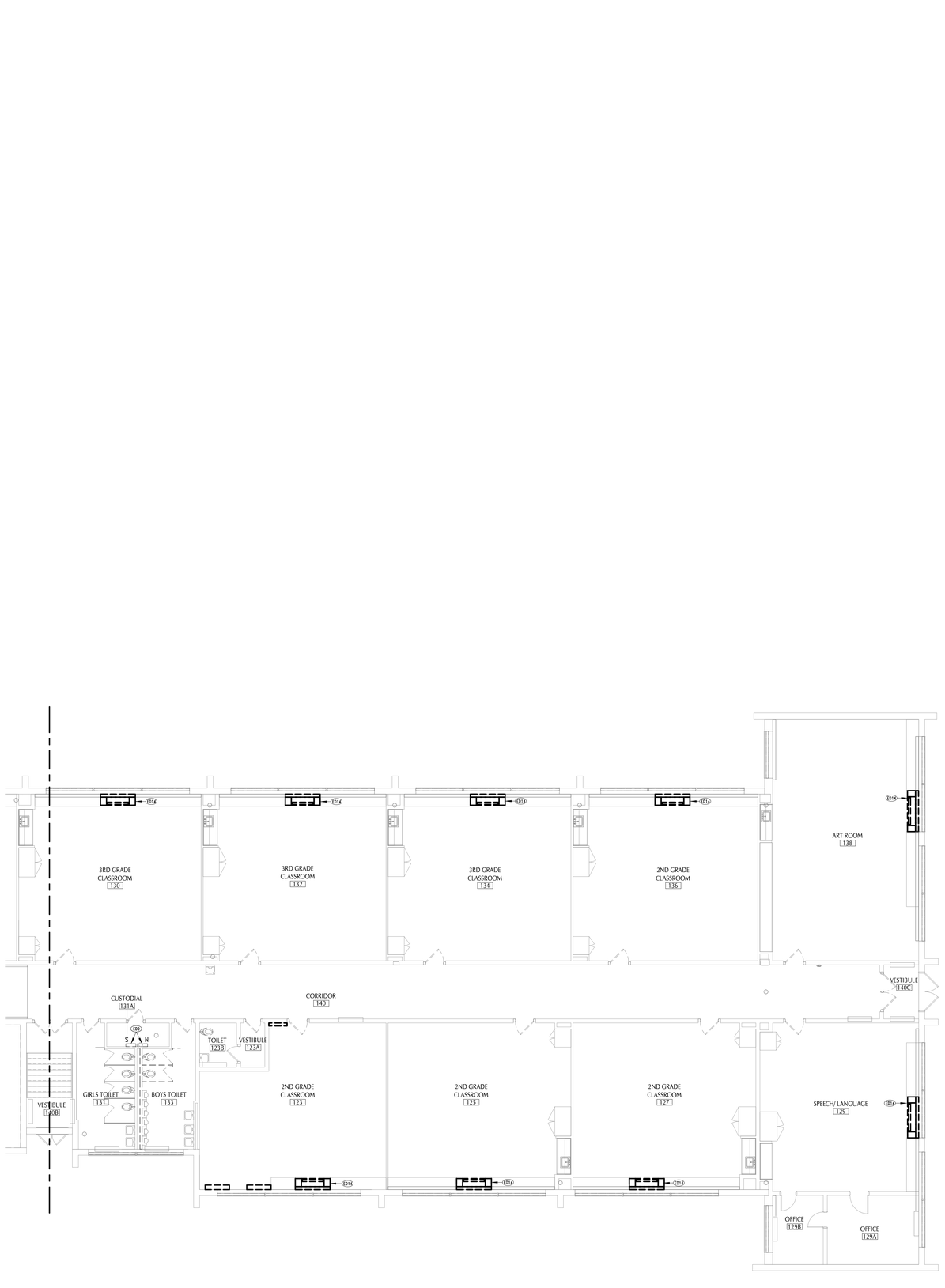
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G. REMOVE ABANDONED RACEWAYS, BOXES, SUPPORTS, ETC. WHERE EXPOSED (INCLUDING THOSE LOCATED ABOVE EXISTING SUSPENDED CEILING) AND WHERE THEY INTERFERE WITH WORK OF ANY TRADE.

H. PROVIDE ALL BUILDING SURFACE RESTORATION OF EXISTING PENETRATIONS ASSOCIATED WITH REQUIRED ELECTRICAL DEMOLITION WORK. PATCH AND PAINT TO MATCH SURROUNDING EXISTING SURFACES AS NECESSARY. FOR PENETRATIONS LEFT IN FIRE RATED CONSTRUCTION, PROVIDE REQUIRED FIRESTOPPING PER SPECIFICATION SECTION 078413.

KEY NOTES

ED9	DISCONNECT AND REMOVE EXISTING PANEL AND SUPPLY FEEDER BACK TO SOURCE. UNLESS INDICATED OTHERWISE, MAINTAIN ALL EXISTING BRANCH CIRCUIT WIRING FOR RECONNECTION TO REPLACEMENT PANEL.
ED14	DISCONNECT POWER FROM EXISTING HVAC EQUIPMENT. REMOVE BRANCH CIRCUIT WIRE AND CONDUIT BACK TO POWER SOURCE PANELBOARD.



1 DEMOLITION FIRST FLOOR PLAN - AREA '3'
ED113 1/8" = 1'-0"

KEY PLAN

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PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3



EXPIRES 5/31/2026

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Sheet Title
FIRST FLOOR DEMOLITION PLAN - AREA '3'

Sheet No.
PES
ED113

CONSTRUCTION DOCUMENTS

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SHEET NOTES

A. BEFORE REMOVAL OR MODIFICATION OF ANY EXISTING CIRCUITS, FIELD VERIFY IF CIRCUITS FEED OTHER AREAS OF THE BUILDING REQUIRED TO REMAIN ENERGIZED DURING CONSTRUCTION.

B. ALL EXISTING WIRING AND CONDUIT TO ELECTRICAL ITEMS SHOWN AS DEMOLISHED—ON THIS DRAWING SHALL BE REMOVED IN IT'S ENTIRETY BACK TO SOURCE PANELBOARD. LABEL CIRCUIT BREAKER AS SPARE IN EXISTING PANELBOARD DIRECTORY.

C. WHERE REQUIRED TO DISCONNECT OR MODIFY PART OF AN EXISTING CIRCUIT SERVING AREAS OUTSIDE OF THE DEMOLITION SCOPE, THE CIRCUIT SHALL BE RECONNECTED AND MODIFIED TO MAINTAIN CONTINUITY.

D. MAINTAIN CONTINUITY OF ALL EXISTING TO REMAIN BRANCH CIRCUITS.

E ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROGRAMMING OF THE EXISTING FIRE ALARM SYSTEM TO ACCOUNT FOR THE REMOVAL OF DEVICES FROM THE EXISTING FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY FIRE WATCHES IN AREAS WITHOUT COVERAGE WHEN FIRE ALARM SYSTEM IS OFF LINE.

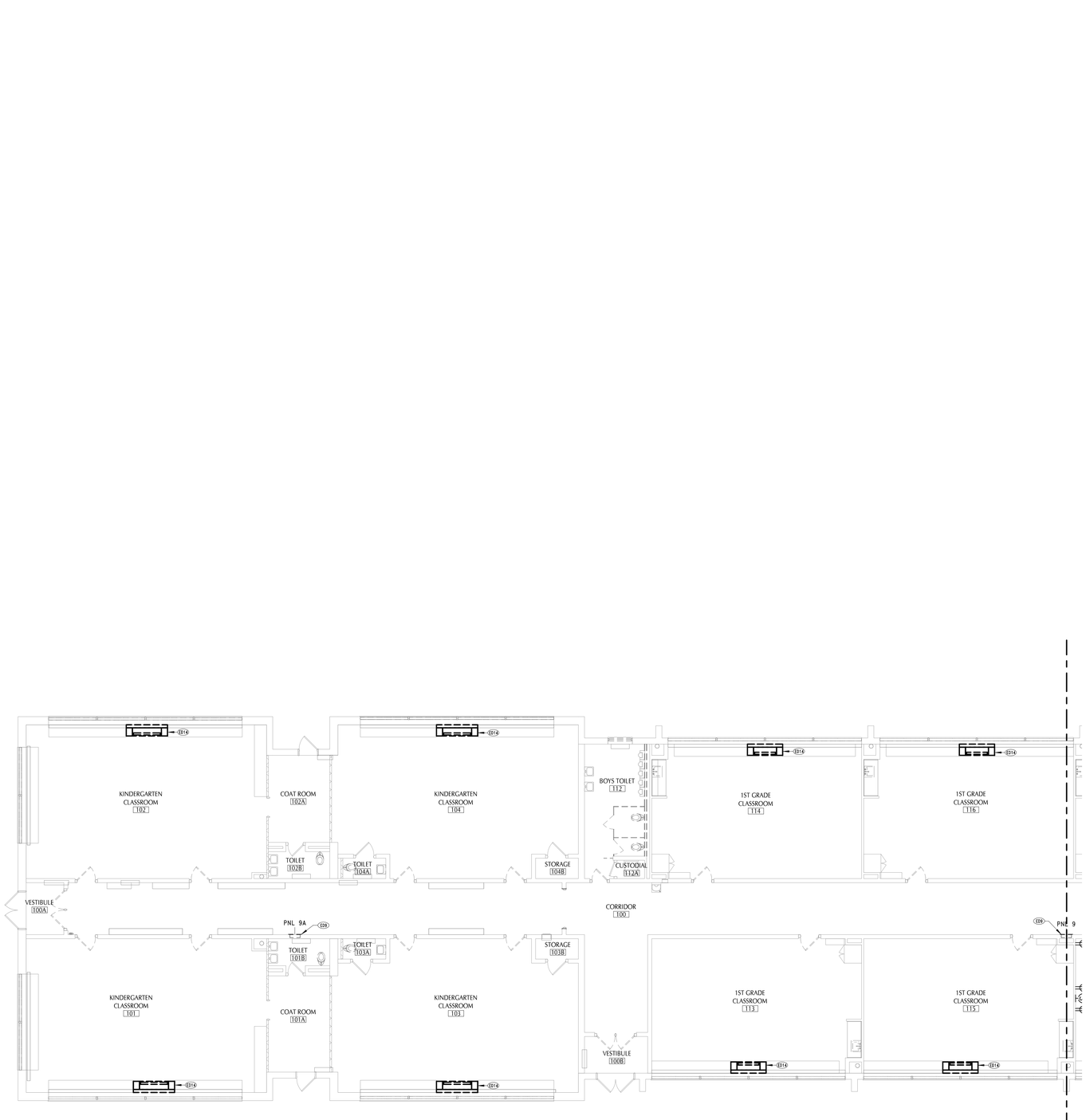
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G. REMOVE ABANDONED RACEWAYS, BOXES, SUPPORTS, ETC. WHERE EXPOSED (INCLUDING THOSE LOCATED ABOVE EXISTING SUSPENDED CEILING) AND WHERE THEY INTERFERE WITH WORK OF ANY TRADE.

H. PROVIDE ALL BUILDING SURFACE RESTORATION OF EXISTING PENETRATIONS ASSOCIATED WITH REQUIRED ELECTRICAL DEMOLITION WORK. PATCH AND PAINT TO MATCH SURROUNDING EXISTING SURFACES AS NECESSARY. FOR PENETRATIONS LEFT IN FIRE RATED CONSTRUCTION, PROVIDE REQUIRED FIRESTOPPING PER SPECIFICATION SECTION 078413.

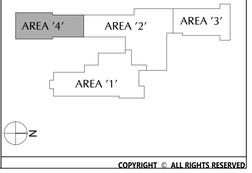
KEY NOTES

ED9	DISCONNECT AND REMOVE EXISTING PANEL AND SUPPLY FEEDER BACK TO SOURCE. UNLESS INDICATED OTHERWISE, MAINTAIN ALL EXISTING BRANCH CIRCUIT WIRING FOR RECONNECTION TO REPLACEMENT PANEL.
ED14	DISCONNECT POWER FROM EXISTING HVAC EQUIPMENT. REMOVE BRANCH CIRCUIT WIRE AND CONDUIT BACK TO POWER SOURCE PANELBOARD.



1 DEMOLITION FIRST FLOOR PLAN - AREA '4'
ED114 1/8" = 1'-0"

KEY PLAN



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Project Title
PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

JAMES R. BARRETT — STATE OF NEW YORK — 073467 — LICENSED PROFESSIONAL ENGINEER
EXPIRES 5/31/2026

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Sheet Title
FIRST FLOOR DEMOLITION PLAN - AREA '4'

Sheet No.
PES
ED114

CONSTRUCTION DOCUMENTS

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SHEET NOTES

A. BEFORE REMOVAL OR MODIFICATION OF ANY EXISTING CIRCUITS, FIELD VERIFY IF CIRCUITS FEED OTHER AREAS OF THE BUILDING REQUIRED TO REMAIN ENERGIZED DURING CONSTRUCTION.

B. ALL EXISTING WIRING AND CONDUIT TO ELECTRICAL ITEMS SHOWN AS DEMOLISHED—ON THIS DRAWING SHALL BE REMOVED IN IT'S ENTIRETY BACK TO SOURCE PANELBOARD. LABEL CIRCUIT BREAKER AS SPARE IN EXISTING PANELBOARD DIRECTORY.

C. WHERE REQUIRED TO DISCONNECT OR MODIFY PART OF AN EXISTING CIRCUIT SERVING AREAS OUTSIDE OF THE DEMOLITION SCOPE, THE CIRCUIT SHALL BE RECONNECTED AND MODIFIED TO MAINTAIN CONTINUITY.

D. MAINTAIN CONTINUITY OF ALL EXISTING TO REMAIN BRANCH CIRCUITS.

E ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROGRAMMING OF THE EXISTING FIRE ALARM SYSTEM TO ACCOUNT FOR THE REMOVAL OF DEVICES FROM THE EXISTING FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY FIRE WATCHES IN AREAS WITHOUT COVERAGE WHEN FIRE ALARM SYSTEM IS OFF LINE.

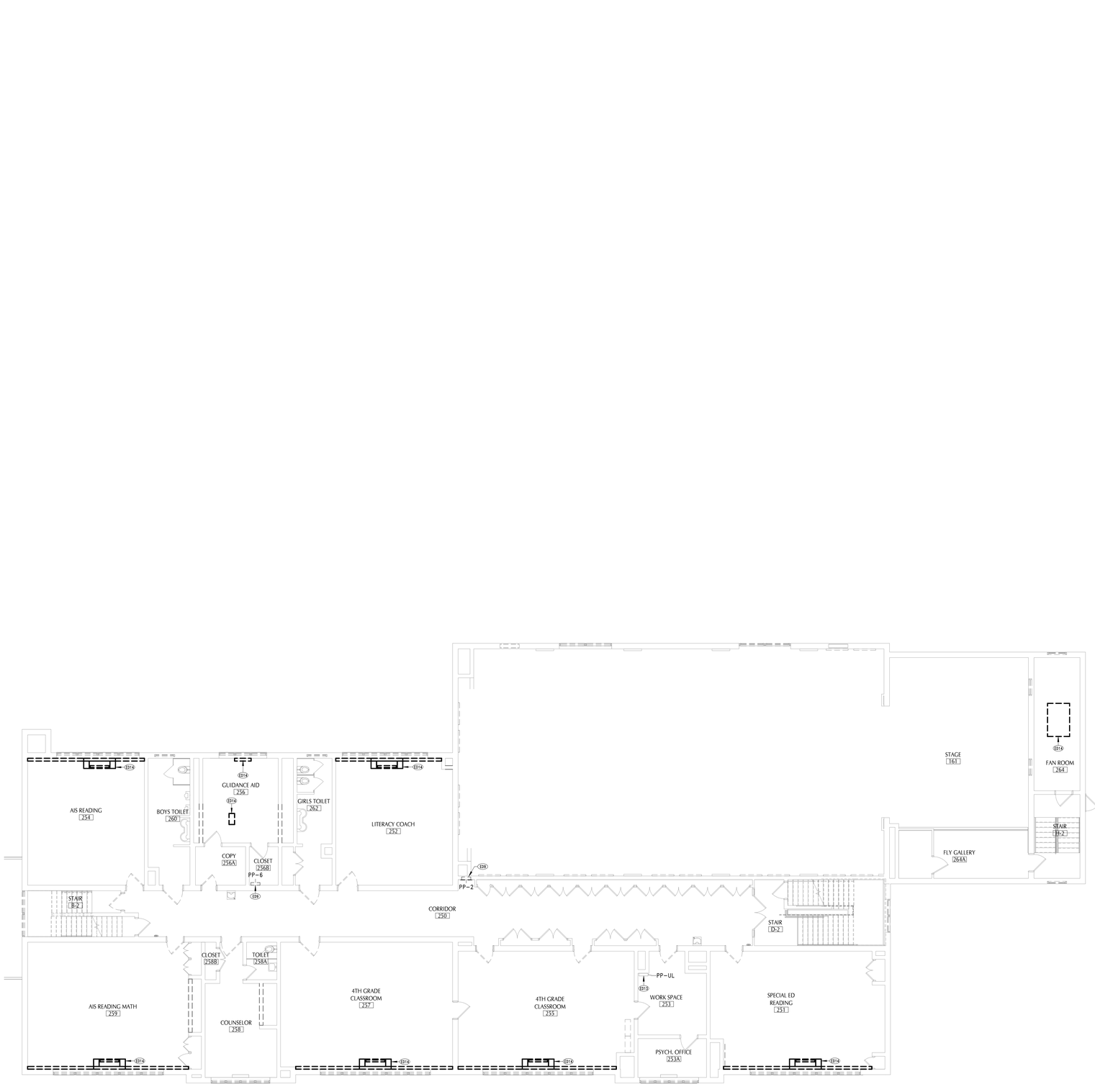
F. DISCONNECT ELECTRICAL CONNECTIONS TO MECHANICAL AND OTHER EQUIPMENT BEING REMOVED BY OTHER TRADES.

G. REMOVE ABANDONED RACEWAYS, BOXES, SUPPORTS, ETC. WHERE EXPOSED (INCLUDING THOSE LOCATED ABOVE EXISTING SUSPENDED CEILING) AND WHERE THEY INTERFERE WITH WORK OF ANY TRADE.

H. PROVIDE ALL BUILDING SURFACE RESTORATION OF EXISTING PENETRATIONS ASSOCIATED WITH REQUIRED ELECTRICAL DEMOLITION WORK. PATCH AND PAINT TO MATCH SURROUNDING EXISTING SURFACES AS NECESSARY. FOR PENETRATIONS LEFT IN FIRE RATED CONSTRUCTION, PROVIDE REQUIRED FIRESTOPPING PER SPECIFICATION SECTION 078413.

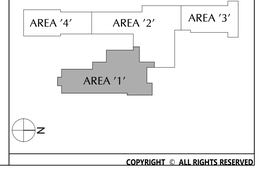
KEY NOTES

ED9	DISCONNECT AND REMOVE EXISTING PANEL AND SUPPLY FEEDER BACK TO SOURCE. UNLESS INDICATED OTHERWISE, MAINTAIN ALL EXISTING BRANCH CIRCUIT WIRING FOR RECONNECTION TO REPLACEMENT PANEL.
ED13	EXISTING PANEL, ASSOCIATED SUPPLY FEEDER AND ALL BRANCH CIRCUIT WIRING TO BE MAINTAINED FOR REUSE UNLESS OTHERWISE NOTED.
ED14	DISCONNECT POWER FROM EXISTING HVAC EQUIPMENT. REMOVE BRANCH CIRCUIT WIRE AND CONDUIT BACK TO POWER SOURCE PANELBOARD.



1 DEMOLITION SECOND FLOOR PLAN - AREA '1'
ED121 1/8" = 1'-0"

KEY PLAN



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Project Title
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2020 CAPITAL PROJECT - PHASE 3

JAMES R. BARRETT — STATE OF NEW YORK — 073467 — LICENSED PROFESSIONAL ENGINEER
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Sheet Title
SECOND FLOOR DEMOLITION PLAN - AREA '1'

Sheet No.
PES
ED121

CONSTRUCTION DOCUMENTS

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SHEET NOTES

A. BEFORE REMOVAL OR MODIFICATION OF ANY EXISTING CIRCUITS, FIELD VERIFY IF CIRCUITS FEED OTHER AREAS OF THE BUILDING REQUIRED TO REMAIN ENERGIZED DURING CONSTRUCTION.

B. ALL EXISTING WIRING AND CONDUIT TO ELECTRICAL ITEMS SHOWN AS DEMOLISHED—ON THIS DRAWING SHALL BE REMOVED IN IT'S ENTIRETY BACK TO SOURCE PANELBOARD. LABEL CIRCUIT BREAKER AS SPARE IN EXISTING PANELBOARD DIRECTORY.

C. WHERE REQUIRED TO DISCONNECT OR MODIFY PART OF AN EXISTING CIRCUIT SERVING AREAS OUTSIDE OF THE DEMOLITION SCOPE, THE CIRCUIT SHALL BE RECONNECTED AND MODIFIED TO MAINTAIN CONTINUITY.

D. MAINTAIN CONTINUITY OF ALL EXISTING TO REMAIN BRANCH CIRCUITS.

E ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROGRAMMING OF THE EXISTING FIRE ALARM SYSTEM TO ACCOUNT FOR THE REMOVAL OF DEVICES FROM THE EXISTING FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY FIRE WATCHES IN AREAS WITHOUT COVERAGE WHEN FIRE ALARM SYSTEM IS OFF LINE.

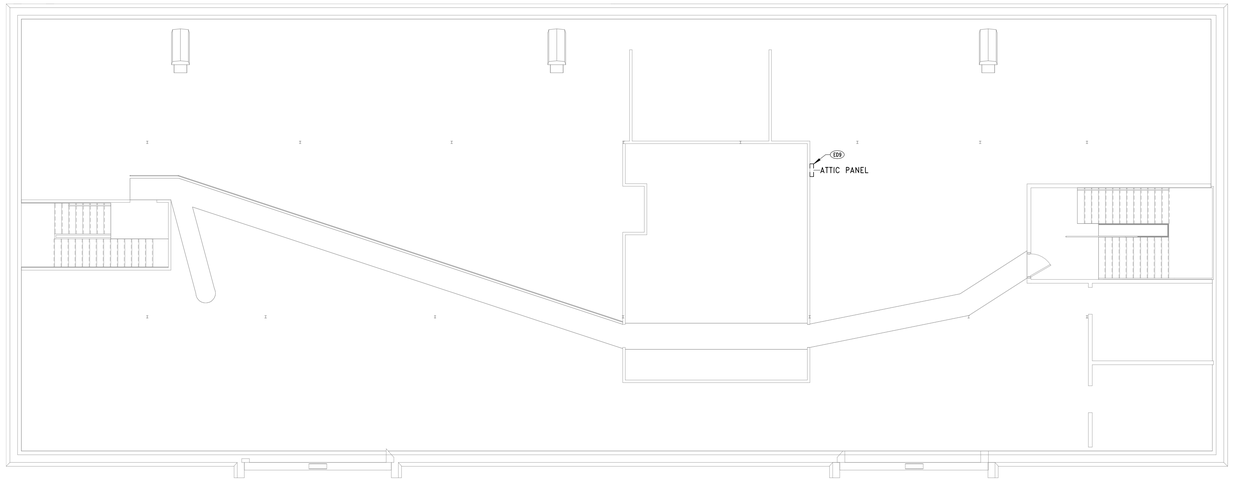
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G. REMOVE ABANDONED RACEWAYS, BOXES, SUPPORTS, ETC. WHERE EXPOSED (INCLUDING THOSE LOCATED ABOVE EXISTING SUSPENDED CEILING) AND WHERE THEY INTERFERE WITH WORK OF ANY TRADE.

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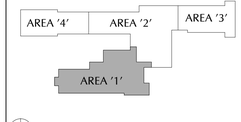
KEY NOTES

ED9	DISCONNECT AND REMOVE EXISTING PANEL AND SUPPLY FEEDER BACK TO SOURCE. UNLESS INDICATED OTHERWISE, MAINTAIN ALL EXISTING BRANCH CIRCUIT WIRING FOR RECONNECTION TO REPLACEMENT PANEL.



1 DEMOLITION ATTIC PLAN - AREA '1'
ED131 1/8" = 1'-0"

KEY PLAN



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Sheet Title
ATTIC DEMOLITION PLAN - AREA '1'

Sheet No.
PES
ED131

CONSTRUCTION DOCUMENTS

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SHEET NOTES

A. BEFORE REMOVAL OR MODIFICATION OF ANY EXISTING CIRCUITS, FIELD VERIFY IF CIRCUITS FEED OTHER AREAS OF THE BUILDING REQUIRED TO REMAIN ENERGIZED DURING CONSTRUCTION.

B. ALL EXISTING WIRING AND CONDUIT TO ELECTRICAL ITEMS SHOWN AS DEMOLISHED—ON THIS DRAWING SHALL BE REMOVED IN IT'S ENTIRETY BACK TO SOURCE PANELBOARD. LABEL CIRCUIT BREAKER AS SPARE IN EXISTING PANELBOARD DIRECTORY.

C. WHERE REQUIRED TO DISCONNECT OR MODIFY PART OF AN EXISTING CIRCUIT SERVING AREAS OUTSIDE OF THE DEMOLITION SCOPE, THE CIRCUIT SHALL BE RECONNECTED AND MODIFIED TO MAINTAIN CONTINUITY.

D. MAINTAIN CONTINUITY OF ALL EXISTING TO REMAIN BRANCH CIRCUITS.

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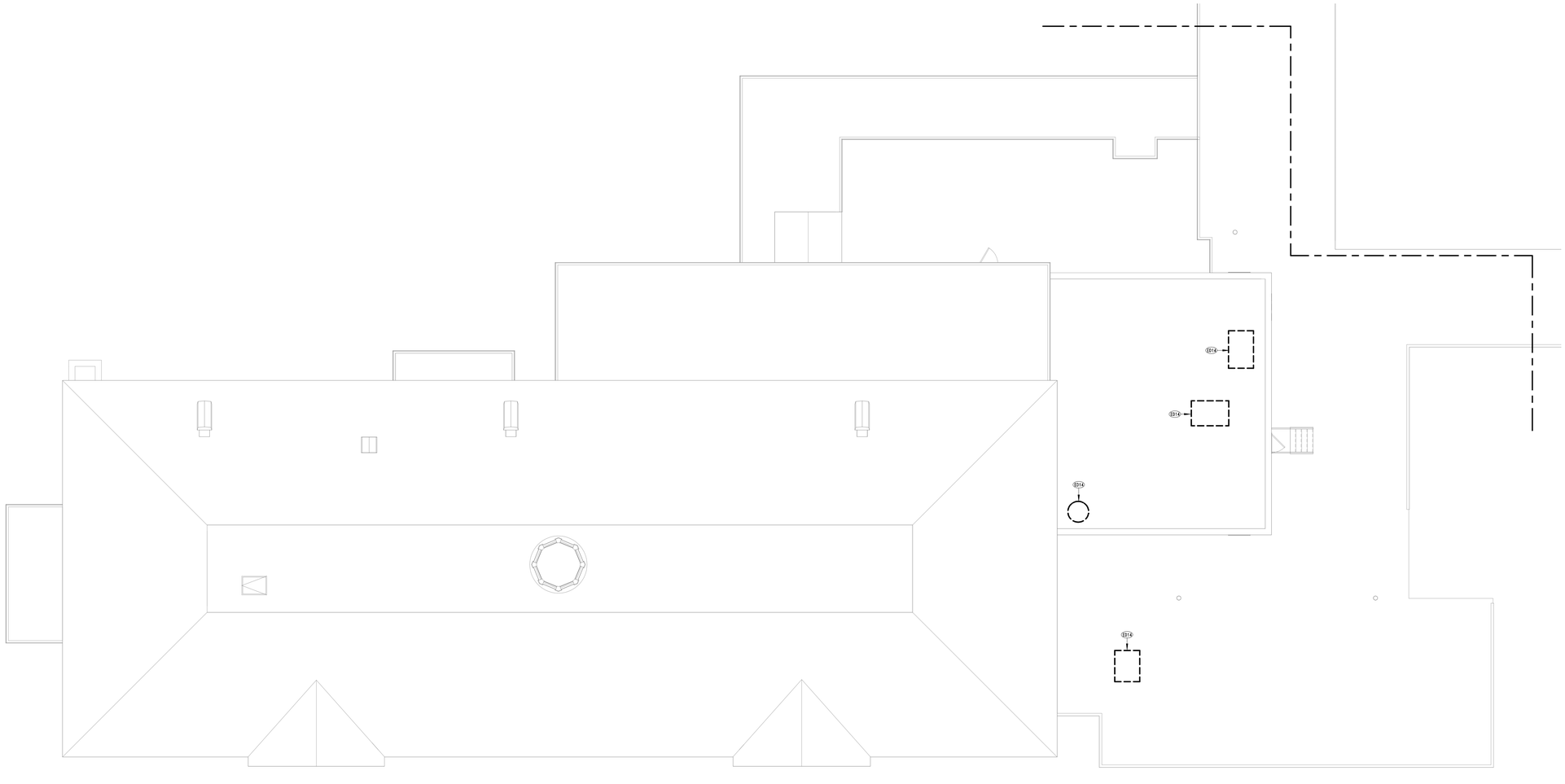
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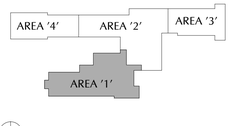
KEY NOTES

ED14	DISCONNECT POWER FROM EXISTING HVAC EQUIPMENT. REMOVE BRANCH CIRCUIT WIRE AND CONDUIT BACK TO POWER SOURCE PANELBOARD.



1 DEMOLITION ROOF PLAN - AREA '1'
ED141 1/8" = 1'-0"

KEY PLAN



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PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

Project Title



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Sheet Title
ROOF DEMOLITION PLAN - AREA '1'

Sheet No.
PES
ED141

CONSTRUCTION DOCUMENTS

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SHEET NOTES

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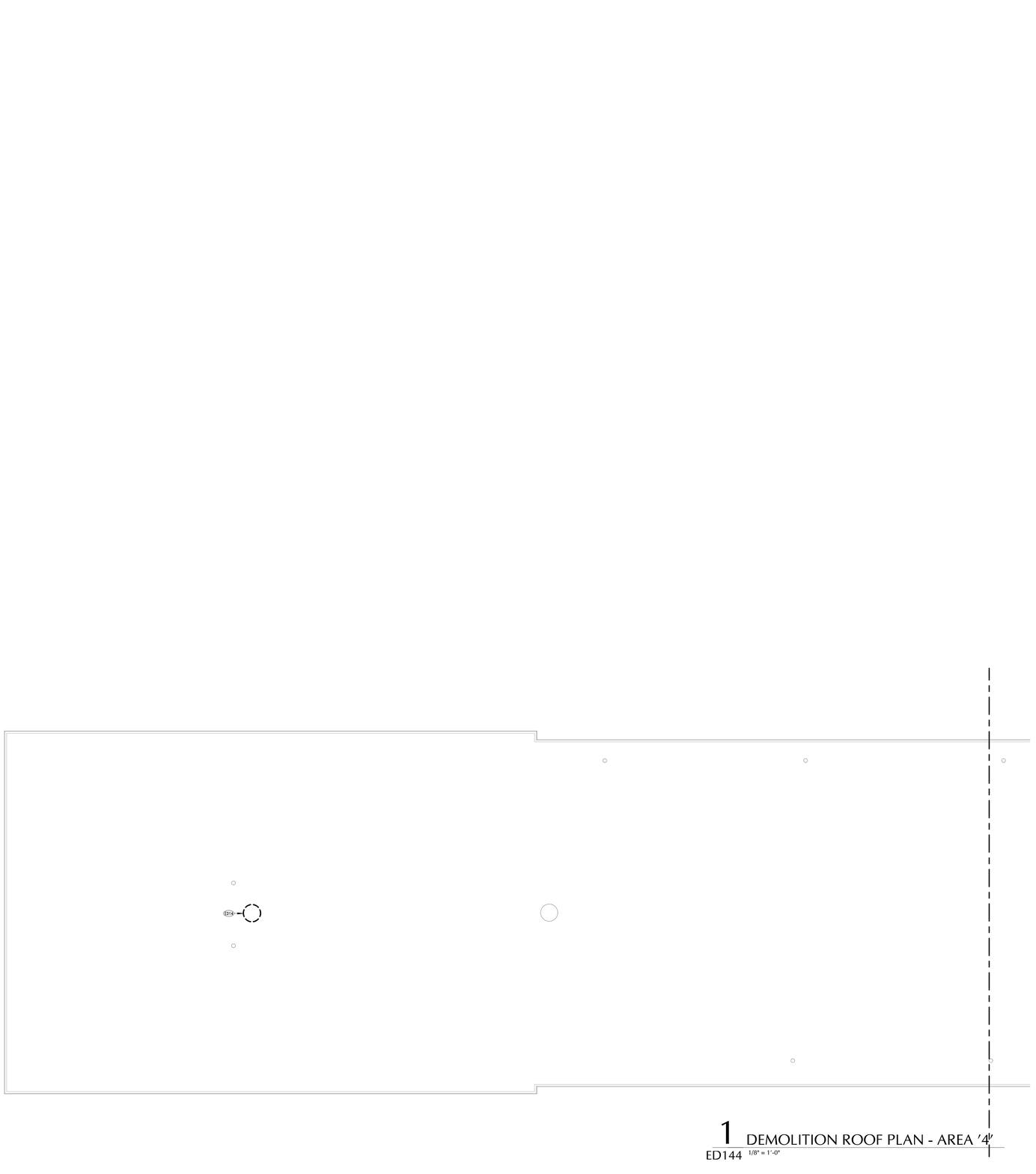
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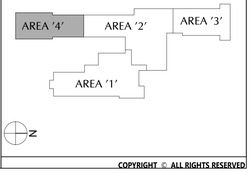
KEY NOTES

ED14	DISCONNECT POWER FROM EXISTING HVAC EQUIPMENT. REMOVE BRANCH CIRCUIT WIRE AND CONDUIT BACK TO POWER SOURCE PANELBOARD.



1 DEMOLITION ROOF PLAN - AREA '4'
ED144 1/8" = 1'-0"

KEY PLAN



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Project Title
PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

STATE OF NEW YORK
JAMES R. BARRETT
073467
LICENSED PROFESSIONAL ENGINEER
EXPIRES 5/31/2026

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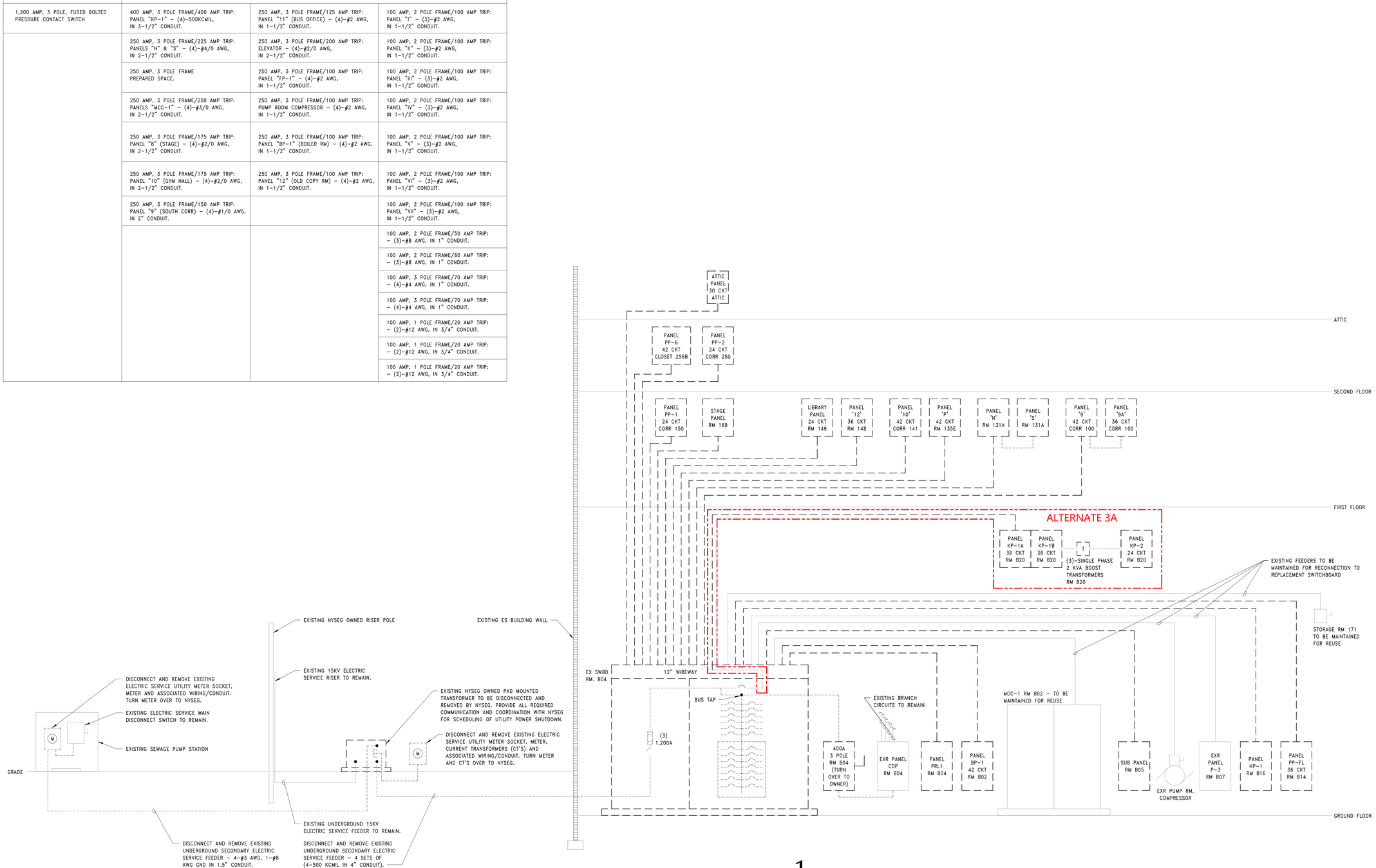
Sheet Title
ROOF DEMOLITION PLAN - AREA '4'

Sheet No.
PES
ED144

CONSTRUCTION DOCUMENTS

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EXISTING MAIN ELECTRIC SERVICE ENTRANCE SWITCHBOARD EX-SWBD SCHEDULE			
SECTION NO. 1	SECTION NO. 2		
1,200 AMP, 3 POLE, FUSED BOLTED PRESSURE CONTACT SWITCH	400 AMP, 3 POLE FRAME/400 AMP TRIP: PANEL "KP-1" – (4)-500KCMIL, IN 3-1/2" CONDUIT.	250 AMP, 3 POLE FRAME/125 AMP TRIP: PANEL "11" (BUS OFFICE) – (4)-#2 AWG, IN 1-1/2" CONDUIT.	100 AMP, 2 POLE FRAME/100 AMP TRIP: PANEL "I" – (3)-#2 AWG, IN 1-1/2" CONDUIT.
	250 AMP, 3 POLE FRAME/225 AMP TRIP: PANELS "N" & "S" – (4)-#4/0 AWG, IN 2-1/2" CONDUIT.	250 AMP, 3 POLE FRAME/200 AMP TRIP: ELEVATOR – (4)-#2/0 AWG, IN 2-1/2" CONDUIT.	100 AMP, 2 POLE FRAME/100 AMP TRIP: PANEL "II" – (3)-#2 AWG, IN 1-1/2" CONDUIT.
	250 AMP, 3 POLE FRAME PREPARED SPACE.	250 AMP, 3 POLE FRAME/100 AMP TRIP: PANEL "FP-1" – (4)-#2 AWG, IN 1-1/2" CONDUIT.	100 AMP, 2 POLE FRAME/100 AMP TRIP: PANEL "III" – (3)-#2 AWG, IN 1-1/2" CONDUIT.
	250 AMP, 3 POLE FRAME/200 AMP TRIP: PANELS "MCC-1" – (4)-#3/0 AWG, IN 2-1/2" CONDUIT.	250 AMP, 3 POLE FRAME/100 AMP TRIP: PUMP ROOM COMPRESSOR – (4)-#2 AWG, IN 1-1/2" CONDUIT.	100 AMP, 2 POLE FRAME/100 AMP TRIP: PANEL "IV" – (3)-#2 AWG, IN 1-1/2" CONDUIT.
	250 AMP, 3 POLE FRAME/175 AMP TRIP: PANEL "8" (STAGE) – (4)-#2/0 AWG, IN 2-1/2" CONDUIT.	250 AMP, 3 POLE FRAME/100 AMP TRIP: PANEL "BP-1" (BOILER RM) – (4)-#2 AWG, IN 1-1/2" CONDUIT.	100 AMP, 2 POLE FRAME/100 AMP TRIP: PANEL "V" – (3)-#2 AWG, IN 1-1/2" CONDUIT.
	250 AMP, 3 POLE FRAME/175 AMP TRIP: PANEL "10" (GYM HALL) – (4)-#2/0 AWG, IN 2-1/2" CONDUIT.	250 AMP, 3 POLE FRAME/100 AMP TRIP: PANEL "12" (OLD COPY RM) – (4)-#2 AWG, IN 1-1/2" CONDUIT.	100 AMP, 2 POLE FRAME/100 AMP TRIP: PANEL "VI" – (3)-#2 AWG, IN 1-1/2" CONDUIT.
	250 AMP, 3 POLE FRAME/150 AMP TRIP: PANEL "9" (SOUTH CORR) – (4)-#1/0 AWG, IN 2" CONDUIT.		100 AMP, 2 POLE FRAME/100 AMP TRIP: PANEL "VII" – (3)-#2 AWG, IN 1-1/2" CONDUIT.
			100 AMP, 2 POLE FRAME/50 AMP TRIP: – (3)-#8 AWG, IN 1" CONDUIT.
			100 AMP, 2 POLE FRAME/60 AMP TRIP: – (3)-#8 AWG, IN 1" CONDUIT.
			100 AMP, 3 POLE FRAME/70 AMP TRIP: – (4)-#4 AWG, IN 1" CONDUIT.
			100 AMP, 3 POLE FRAME/70 AMP TRIP: – (4)-#4 AWG, IN 1" CONDUIT.
			100 AMP, 1 POLE FRAME/20 AMP TRIP: – (2)-#12 AWG, IN 3/4" CONDUIT.
			100 AMP, 1 POLE FRAME/20 AMP TRIP: – (2)-#12 AWG, IN 3/4" CONDUIT.
			100 AMP, 1 POLE FRAME/20 AMP TRIP: – (2)-#12 AWG, IN 3/4" CONDUIT.



1 DEMOLITION RISER DIAGRAM

ED501 NTS

NOTE: ALL DEMO RISER DIAGRAM COMPONENTS SHOWN DASHED SHALL BE DISCONNECTED AND REMOVED.

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PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

Project Title

STATE OF NEW YORK JAMES R. BARNES 073467 LICENSED PROFESSIONAL ENGINEER
EXPIRES 5/31/2026

#	DATE	DESCRIPTION

Drawn By:	NDH
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DEMOLITION RISER DIAGRAM

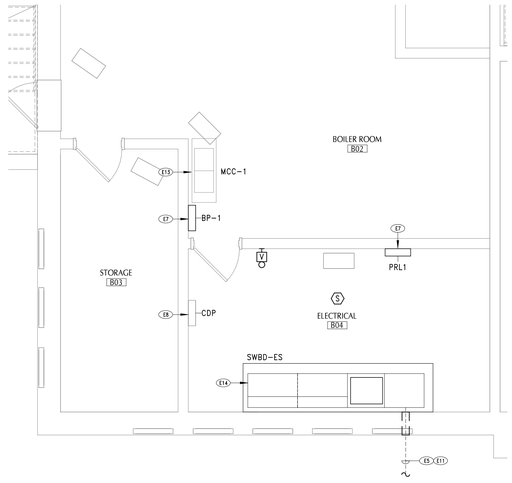
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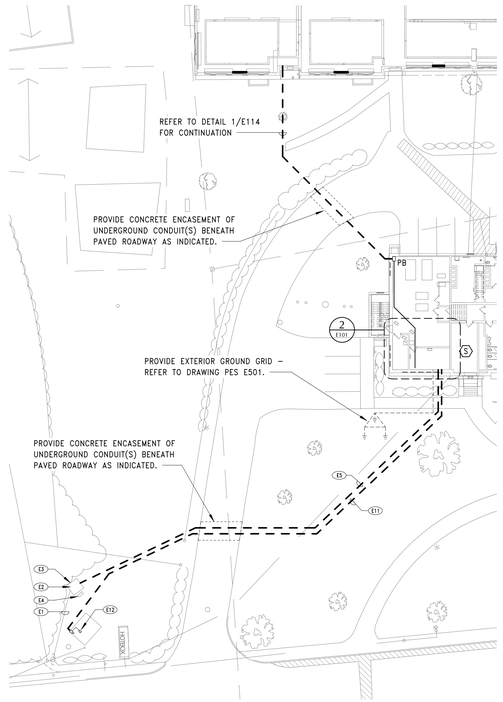
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2 PARTIAL GROUND FLOOR PLAN
E101 1/4" = 1'-0"



3 PARTIAL SITE PLAN
E101 1" = 30'-0"

1 GROUND FLOOR PLAN - AREA '1'
E101 1/8" = 1'-0"

SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

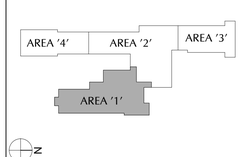
B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

C. PROVIDE ALL REQUIRED EARTHWORK NECESSARY TO ACCOMMODATE NEW PAD MOUNTED TRANSFORMER INSTALLATION: PROVIDE ALL NECESSARY MODIFICATIONS TO EXISTING SLOPED GRADE FOR ESTABLISHING A LEVEL FOOTPRINT: GRADING RETENTION, TRENCHING, BACKFILL, COMPACTION AND SITE RESTORATION.

KEY NOTES

E1	COORDINATE WITH NEW YORK STATE ELECTRIC & GAS (NYSEG) FOR ALL WORK REQUIRED TO DISCONNECT AND REROUTE EXISTING UNDERGROUND 15KV, 3 PHASE PRIMARY ELECTRIC SERVICE FEEDER AS INDICATED ON THE PLAN.
E2	REPLACEMENT NYSEG OWNED PAD MOUNTED TRANSFORMER
E3	PROVIDE UTILITY TRANSFORMER PAD AND CABLE VAULT BOX - REFER TO DETAILS 1, 2 AND 3/E601.
E4	PROVIDE ELECTRIC SERVICE SECONDARY METER SOCKET ENCLOSURE ATTACHED TO PAD MOUNTED TRANSFORMER.
E5	PROVIDE UNDERGROUND 208/120V, 3 PHASE SECONDARY ELECTRIC SERVICE FEEDER.
E6	PROVIDE REPLACEMENT PANELBOARD. REFER TO PANELBOARD REPLACEMENT SCHEDULE ON DWG. NO. E901 FOR SPECIFICATIONS. PROVIDE REPLACEMENT PANELBOARD FEEDER AS SPECIFIED ON DWG. NO. E501. PROVIDE RECONNECTION OF EXISTING PANELBOARD BRANCH CIRCUIT CONDUCTORS. PROVIDE ALL NECESSARY WALL MODIFICATIONS AS REQUIRED FOR PROPER PANEL INSTALLATION. PROVIDE COMPLETE INFILL OF EXISTING WALL OPENING AROUND THE PERIMETER OF REPLACEMENT PANELBOARD BACKBOX. PROVIDE WALL INFILL SURFACE TO MATCH SURFACE OF SURROUNDING WALL. PAINT TO MATCH.
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E8	EXISTING PANELBOARD TO REMAIN. PROVIDE REPLACEMENT PANELBOARD FEEDER AS SPECIFIED ON DWG. NO. E501.
E11	PROVIDE UNDERGROUND 208/120, 3 PHASE, 4 WIRE FEEDER TO EXISTING SEWAGE PUMP STATION.
E12	PROVIDE RECONNECTION OF POWER TO EXISTING SEWAGE PUMP STATION. EXTEND AND CONNECT UNDERGROUND FEEDER TO A 3 POLE 60 AMP, NEMA 3R NON-FUSED DISCONNECT SWITCH. PROVIDE RECONNECTION OF EXISTING PUMP STATION CONTROL PANEL TO REPLACEMENT FEEDER WITH CONDUIT SEALING FITTING UL LISTED FOR CLASS 1, DIVISION 1 OR 2, GROUP D ENVIRONMENT BOUNDARY. PROVIDE RECONNECTION OF PUMP STATION GROUNDING SYSTEM. PROVIDE FOR COMPLETE PUMP STATION OPERATIONAL ACCEPTANCE TESTING.
E13	EXISTING MOTOR CONTROL CENTER TO REMAIN. PROVIDE RECONNECTION OF EXISTING FEEDER TO REPLACEMENT SWITCHBOARD AS SPECIFIED ON DWG. NO. E501.
E14	PROVIDE REPLACEMENT MAIN ELECTRIC SERVICE ENTRANCE SWITCHBOARD 'SWBD-ES'. REFER TO SWITCHBOARD REPLACEMENT SCHEDULE ON DWG. NO. E501 FOR SPECIFICATIONS. PROVIDE INCOMING ELECTRIC UTILITY AND LOAD FEEDER CONNECTIONS AS SPECIFIED ON DWG. NO. E501. PROVIDE RECONNECTION OF EXISTING PANELBOARD BRANCH CIRCUIT CONDUCTORS AS INDICATED.
E16	PROVIDE A WALL MOUNTED NEMA TYPE 1 SCREW COVER PULLBOX - SIZED TO ACCOMMODATE EXISTING FEEDER CONDUCTORS/CONDUITS TO REMAIN.
E18	EXISTING PANELBOARD TO REMAIN. PROVIDE RECONNECTION OF EXISTING SUPPLY FEEDER TO REPLACEMENT SWITCHBOARD.

KEY PLAN



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PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3



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GROUND FLOOR PLAN - AREA '1'

Sheet No.

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E101

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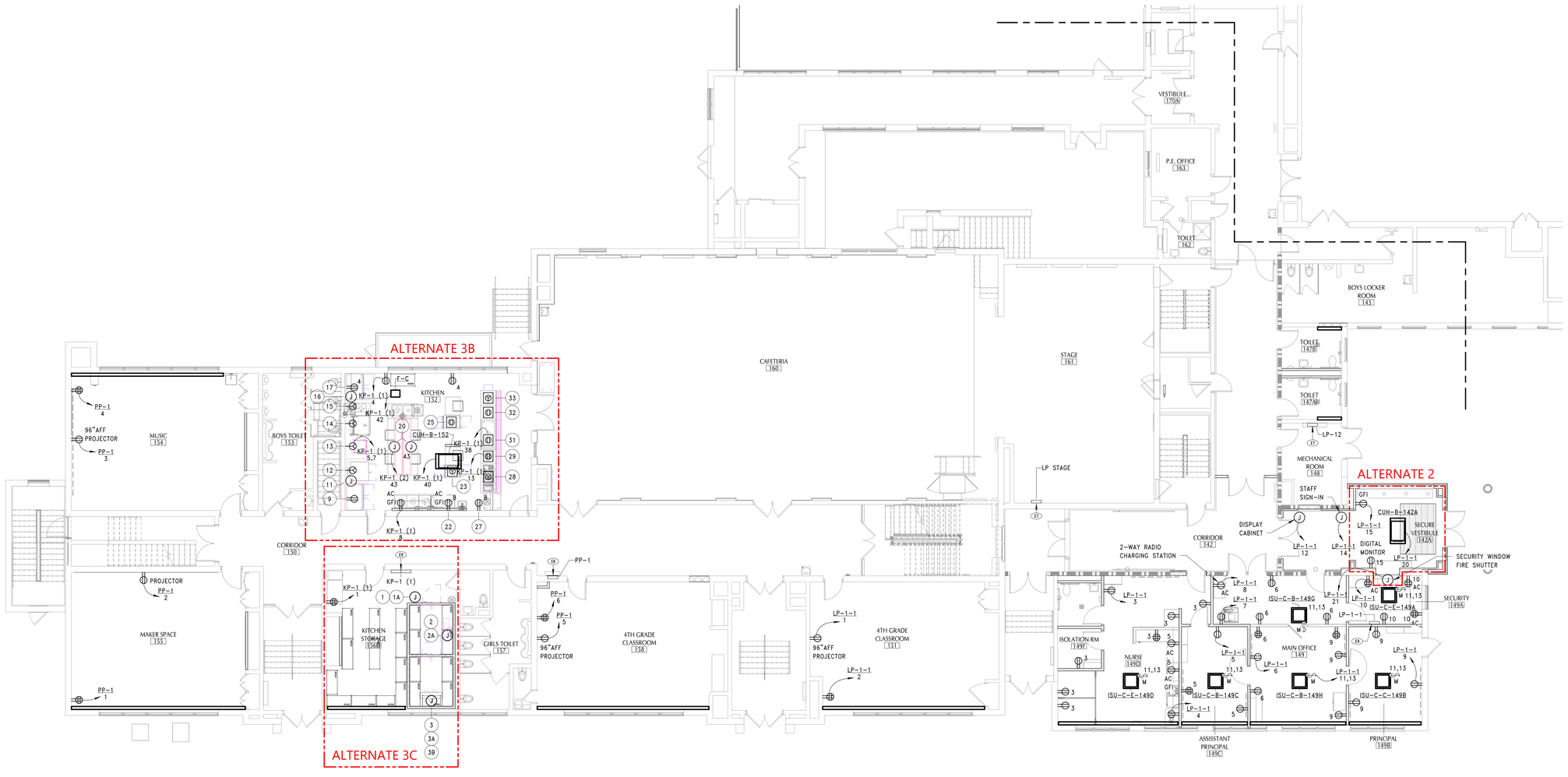
ALTERNATE 3

KITCHEN EQUIPMENT SCHEDULE

ITEM NO.	QTY	DESCRIPTION	VOLTAGE	PHASE	AMPS	NEMA DEVICE CONFIGURATION	DIRECT CONNECTION	POWER SOURCE	CIRCUIT BREAKER	CONDUIT & WIRING	NOTES
1	1	WALK-IN COOLER/FREEZER	120	1	20A		YES	KP-1 (1)	10	2-#12 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	
1A	1	POWER AIR DOOR	120	1	10A		YES	KP-1 (1)	16	2-#12 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	
2	1	WALK-IN COOLER REFRIGERATION	120	1	1A		YES	KP-1 (1)	21	2-#12 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	
2A	1	CONDENSING UNIT, COOLER	208	3	4.8A		YES	KP-1 (1)	18,20,22	3-#12 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	
3	1	WALK-IN FREEZER REFRIGERATION	208	1	9.1A		YES	KP-1 (1)	23,25	3-#12 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	
3A	1	CONDENSING UNIT, FREEZER	208	3	9.7A		YES	KP-1 (1)	27,29,31	3-#12 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	
3B	1	DRAIN LINE HEATER	120	1	10A		YES	KP-1 (1)	24	2-#12 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	
9	1	FREEZER, REACH-IN	120	1	10.5A	5-15P		KP-1 (1)	2	2-#12 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	
11	1	EXHAUST HOOD	120	1	20A		YES	KP-1 (1)	3	2-#12 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	
12	1	CONVECTION OVEN	208	3	31A		YES	KP-1 (1)	26,28,30	3-#8 AWG, 1-#10 AWG GND IN 1" CONDUIT	*
13	1	STEAMER	208	1	29A	L6-30P		KP-1 (1)	5,7	3-#8 AWG, 1-#10 AWG GND IN 1" CONDUIT	*
14	1	TILT SKILLET	208	3	43A		YES	KP-1 (1)	33,35,37	3-#6 AWG, 1-#10 AWG GND IN 1" CONDUIT	*
15	1	RANGE	208	3	17.3A		YES	KP-1 (1)	32,34,36	3-#10 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	*
16	1	FIRE SUPPRESSION SYSTEM	120	1	15A		YES	KP-1 (1)	9	2-#12 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	**
17	1	REFRIGERATOR, REACH-IN	120	1	6.5A	5-15P		KP-1 (1)	4	2-#12 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	
20	2	FLOOR JUNCTION BOXES - WORKTABLES	120	1	6.0A		YES	KP-1 (2)	43	2-#12 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	PROVIDE POKE-THRU DEVICE BOXES
22	1	HAND SINK	120	1	1A	5-15P		KP-1 (1)	8	2-#12 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	
23	1	WARMING CABINET, PASS-THRU	208	1	6.3A	6-20P		KP-1 (1)	12,14	3-#12 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	
25	1	REFRIGERATOR, PASS-THRU	120	1	6.5A	5-15P		KP-1 (1)	15	2-#12 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	
27	1	MILK COOLER	120	1	3.7A	5-15P		KP-1 (1)	8	2-#12 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	
28	1	SERVING COUNTER, HOT FOOD	208	1	17.55A	L14-30P		KP-1 (1)	39,41	3-#10 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	
29	1	SERVING COUNTER, UTILITY	120	1	20A	5-20P		KP-1 (1)	13	2-#12 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	
31	1	SERVING COUNTER, FROST TOP	120	1	4.05A	5-15P		KP-1 (1)	38	2-#12 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	
32	1	SERVING COUNTER, UTILITY	120	1	20A	5-15P		KP-1 (1)	11	2-#12 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	
33	1	SERVING COUNTER, CASHIER	120	1	30A	5-50P		KP-1 (1)	6	2-#10 AWG, 1-#12 AWG GND IN 3/4" CONDUIT	

* PROVIDE SHUNT TRIP BRANCH CIRCUIT BREAKER WITH CONTROL COIL CONNECTION TO HOOD FIRE SUPPRESSION SYSTEM.

** PROVIDE TROUBLE AND ALARM CONNECTIONS FROM EXISTING FIRE ALARM SYSTEM CONTROL PANEL TO KITCHEN HOOD FIRE SUPPRESSION SYSTEM.



1 FIRST FLOOR PLAN - AREA '1'
E111 1/8" = 1'-0"

SHEET NOTES

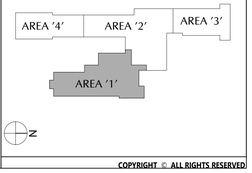
A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

KEY NOTES

E6	PROVIDE REPLACEMENT PANELBOARD. REFER TO PANELBOARD REPLACEMENT SCHEDULE ON DWG. NO. E901 FOR SPECIFICATIONS. PROVIDE REPLACEMENT PANELBOARD FEEDER AS SPECIFIED ON DWG. NO. E501. PROVIDE RECONNECTION OF EXISTING PANELBOARD BRANCH CIRCUIT CONDUCTORS. PROVIDE ALL NECESSARY WALL MODIFICATIONS AS REQUIRED FOR PROPER PANEL INSTALLATION. PROVIDE COMPLETE INFILL OF EXISTING WALL OPENING AROUND THE PERIMETER OF REPLACEMENT PANELBOARD BACKBOX. PROVIDE WALL INFILL SURFACE TO MATCH SURFACE OF SURROUNDING WALL. PAINT TO MATCH.
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KEY PLAN



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PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

STATE OF NEW YORK
JAMES R. BARRETT
073467
LICENSED PROFESSIONAL ENGINEER
EXPIRES 5/31/2026

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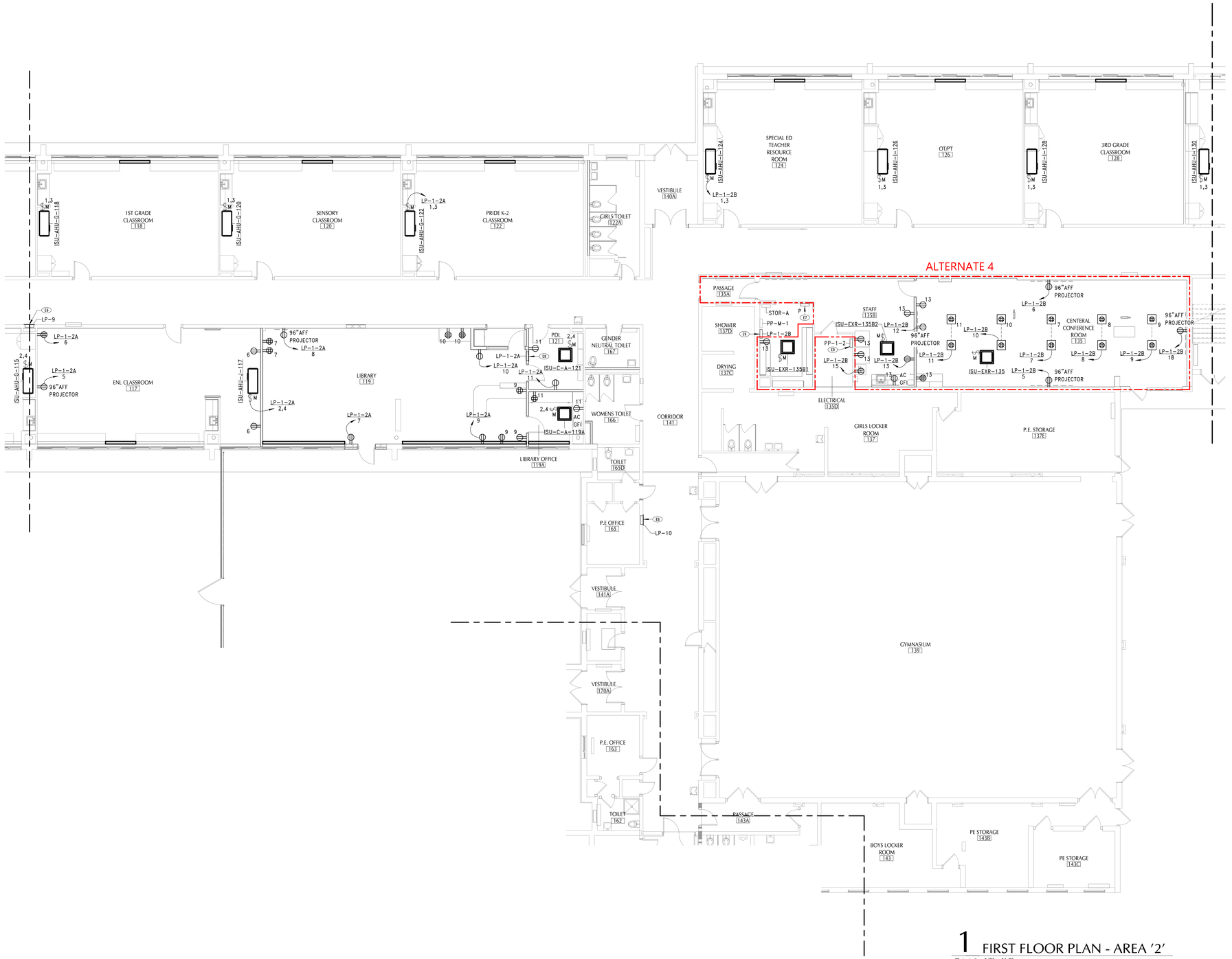
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FIRST FLOOR PLAN - AREA '1'

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1 FIRST FLOOR PLAN - AREA '2'
E112 1/8" = 1'-0"

SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

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FIRST FLOOR PLAN - AREA '2'

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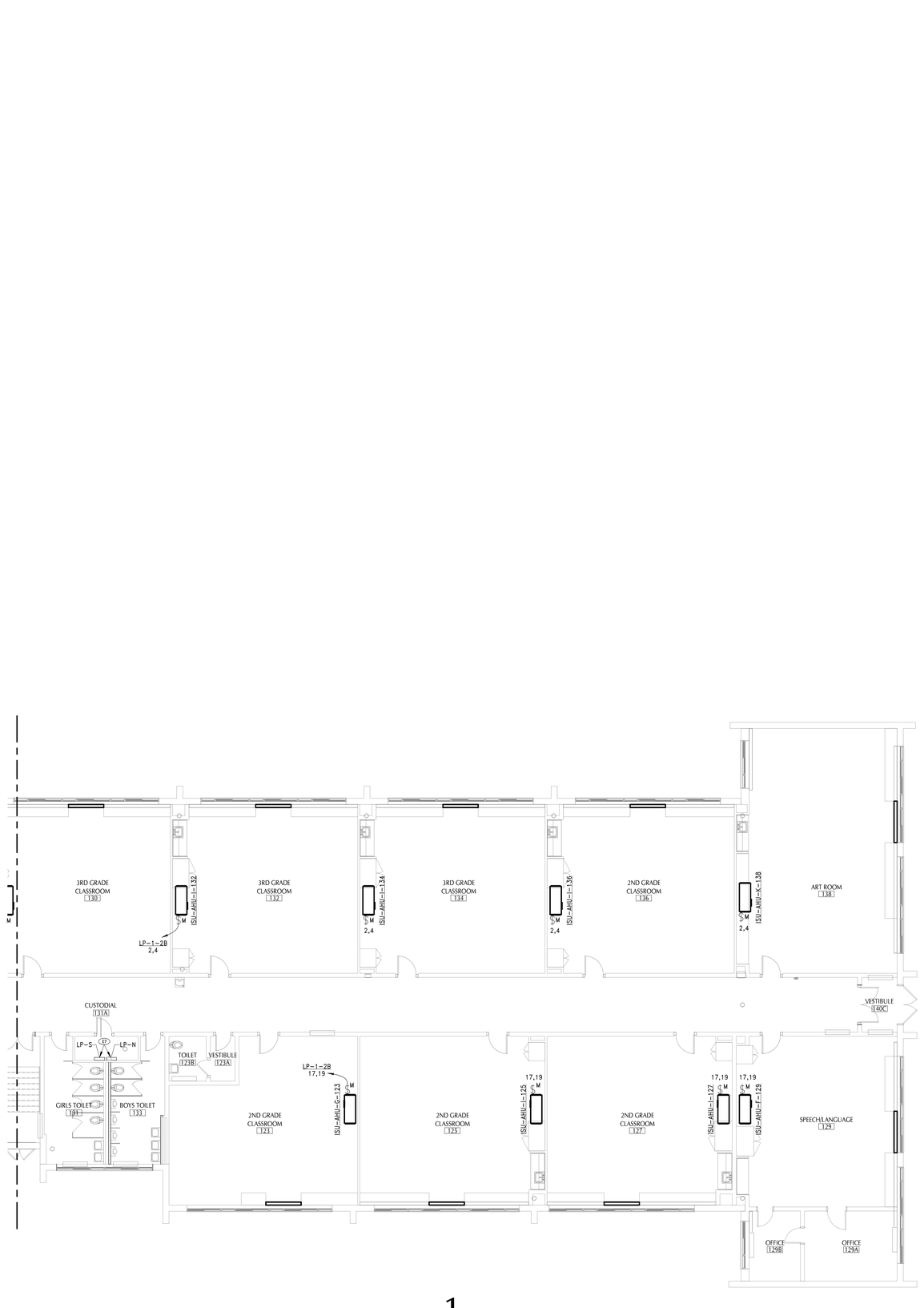
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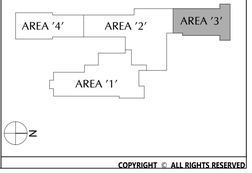
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1 FIRST FLOOR PLAN - AREA '3'
E113 1/8" = 1'-0"

KEY PLAN



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FIRST FLOOR PLAN - AREA '3'

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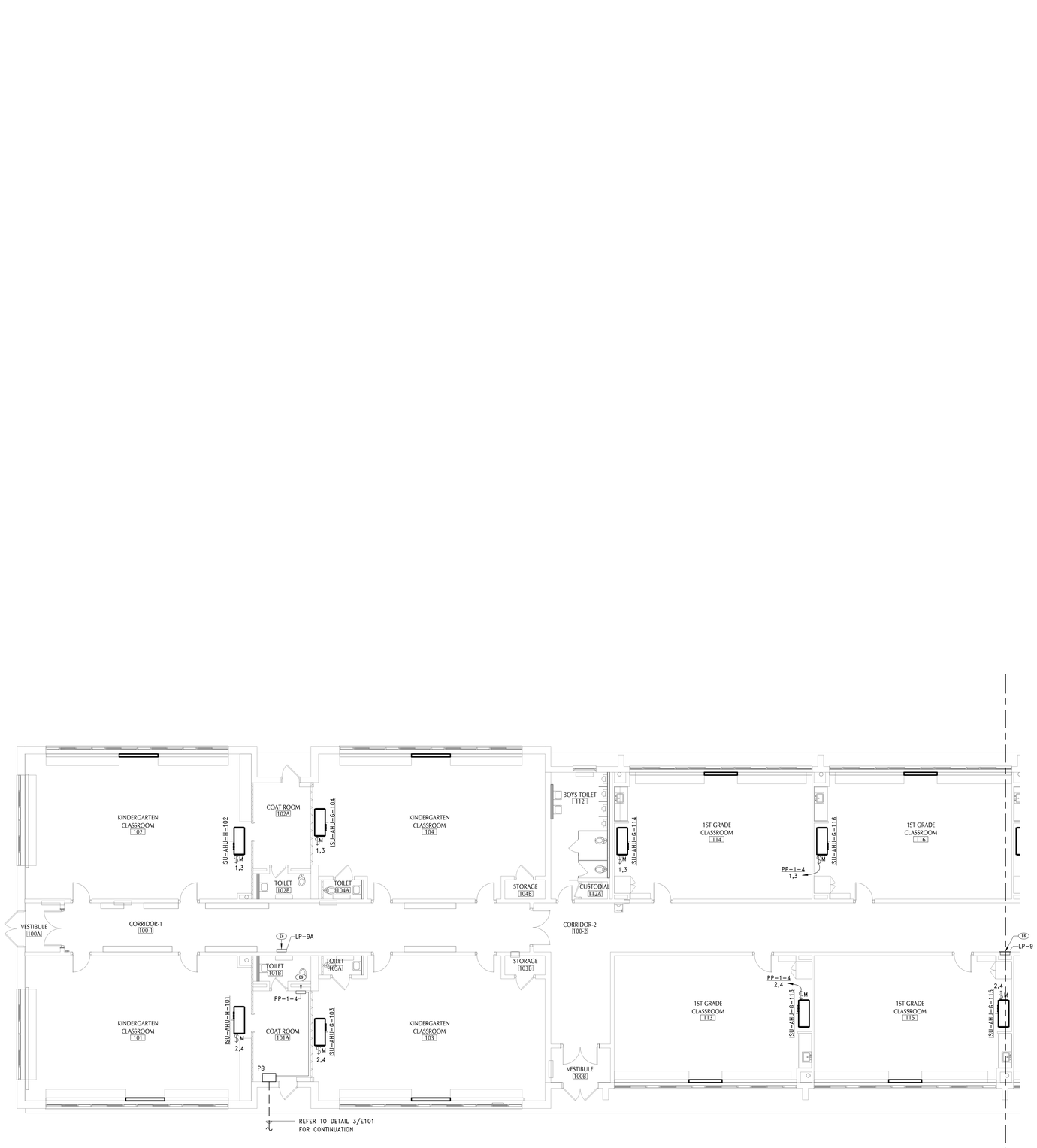
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B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

KEY NOTES

E6	PROVIDE REPLACEMENT PANELBOARD. REFER TO PANELBOARD REPLACEMENT SCHEDULE ON DWG. NO. E901 FOR SPECIFICATIONS. PROVIDE REPLACEMENT PANELBOARD FEEDER AS SPECIFIED ON DWG. NO. E501. PROVIDE RECONNECTION OF EXISTING PANELBOARD BRANCH CIRCUIT CONDUCTORS. PROVIDE ALL NECESSARY WALL MODIFICATIONS AS REQUIRED FOR PROPER PANEL INSTALLATION. PROVIDE COMPLETE INFILL OF EXISTING WALL OPENING AROUND THE PERIMETER OF REPLACEMENT PANELBOARD BACKBOX. PROVIDE WALL INFILL SURFACE TO MATCH SURFACE OF SURROUNDING WALL. PAINT TO MATCH.
E9	REFER TO PANELBOARD SCHEDULE ON DWG. NO. E903. PROVIDE PANELBOARD FEEDER AS SPECIFIED ON DWG. NO. E501.



1 FIRST FLOOR PLAN - AREA '4'
E114 1/8" = 1'-0"

KEY PLAN

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Consultant

Project Title

PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

JAMES R. BARRETT — STATE OF NEW YORK — 073467 — LICENSED PROFESSIONAL ENGINEER
EXPIRES 5/31/2026

#	DATE	DESCRIPTION

Drawn By:	NDH
Checked By:	JRB
Proj. #:	13-12-01-04-0-001-024
CSArch Proj. #:	208-2101.03
Issued for Bid:	11/03/23

Sheet Title

FIRST FLOOR PLAN - AREA '4'

Sheet No.

PES
E114

CONSTRUCTION DOCUMENTS

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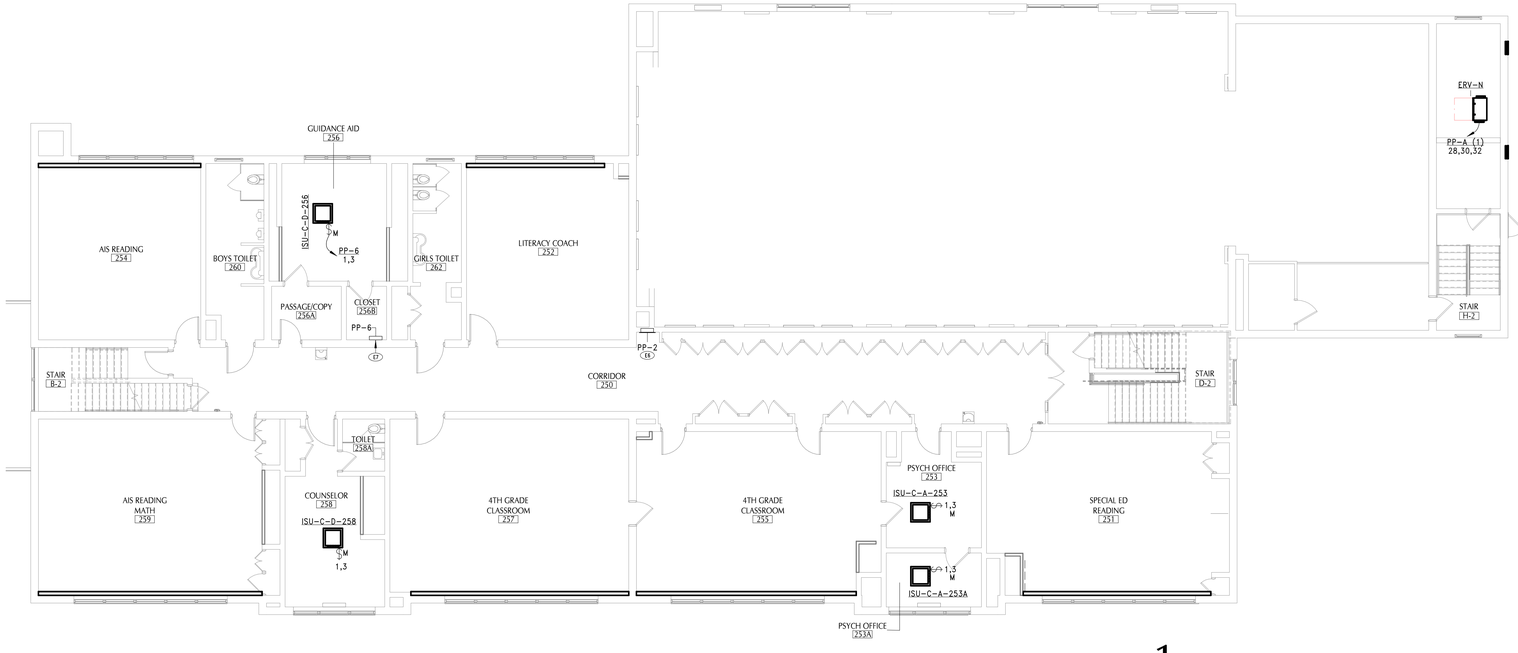
SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

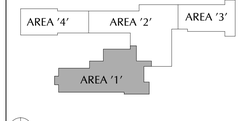
KEY NOTES

E6	PROVIDE REPLACEMENT PANELBOARD. REFER TO PANELBOARD REPLACEMENT SCHEDULE ON DWG. NO. E901 FOR SPECIFICATIONS. PROVIDE REPLACEMENT PANELBOARD FEEDER AS SPECIFIED ON DWG. NO. E501. PROVIDE RECONNECTION OF EXISTING PANELBOARD BRANCH CIRCUIT CONDUCTORS. PROVIDE ALL NECESSARY WALL MODIFICATIONS AS REQUIRED FOR PROPER PANEL INSTALLATION. PROVIDE COMPLETE INFILL OF EXISTING WALL OPENING AROUND THE PERIMETER OF REPLACEMENT PANELBOARD BACKBOX. PROVIDE WALL INFILL SURFACE TO MATCH SURFACE OF SURROUNDING WALL. PAINT TO MATCH.
E7	PROVIDE REPLACEMENT PANELBOARD. REFER TO REPLACEMENT PANELBOARD SCHEDULE ON DWG. NO. E901 FOR SPECIFICATIONS. PROVIDE REPLACEMENT PANELBOARD FEEDER AS SPECIFIED ON DWG. NO. E501. PROVIDE RECONNECTION OF EXISTING PANELBOARD BRANCH CIRCUIT CONDUCTORS.



1 SECOND FLOOR PLAN - AREA '1'
E121 1/8" = 1'-0"

KEY PLAN



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073467
STATE OF NEW YORK
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SECOND FLOOR PLAN - AREA '1'

Sheet No.

PES
E121

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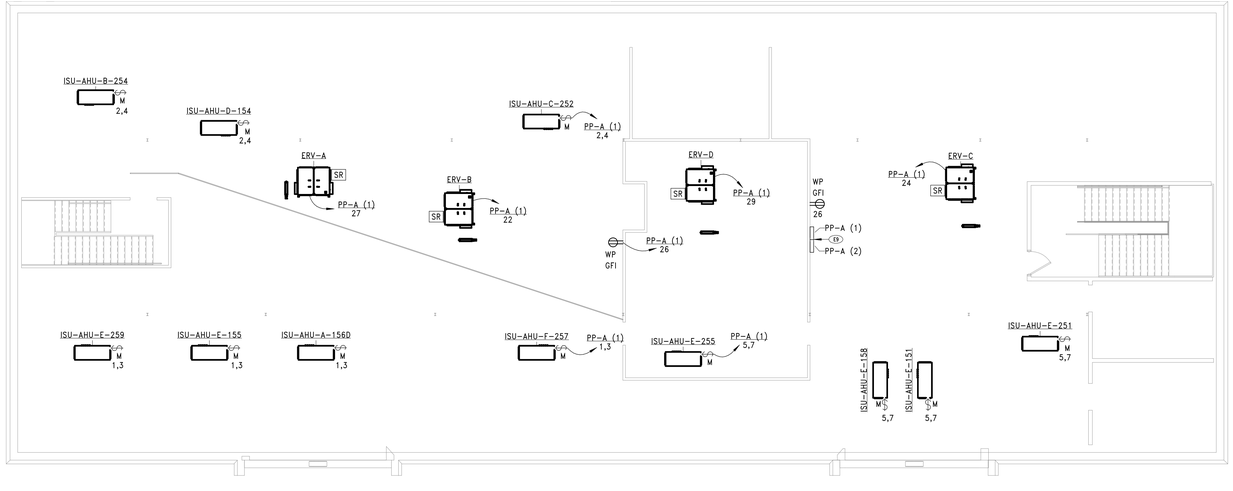
SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

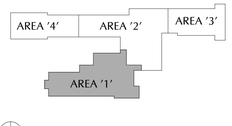
KEY NOTES

E9	REFER TO PANELBOARD SCHEDULE ON DWG. NO. E903. PROVIDE PANELBOARD FEEDER AS SPECIFIED ON DWG. NO. E501.



1 ATTIC POWER PLAN - AREA '1'
E131 1/8" = 1'-0"

KEY PLAN



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ATTIC PLAN - AREA '1'

Sheet No.

PES
E131

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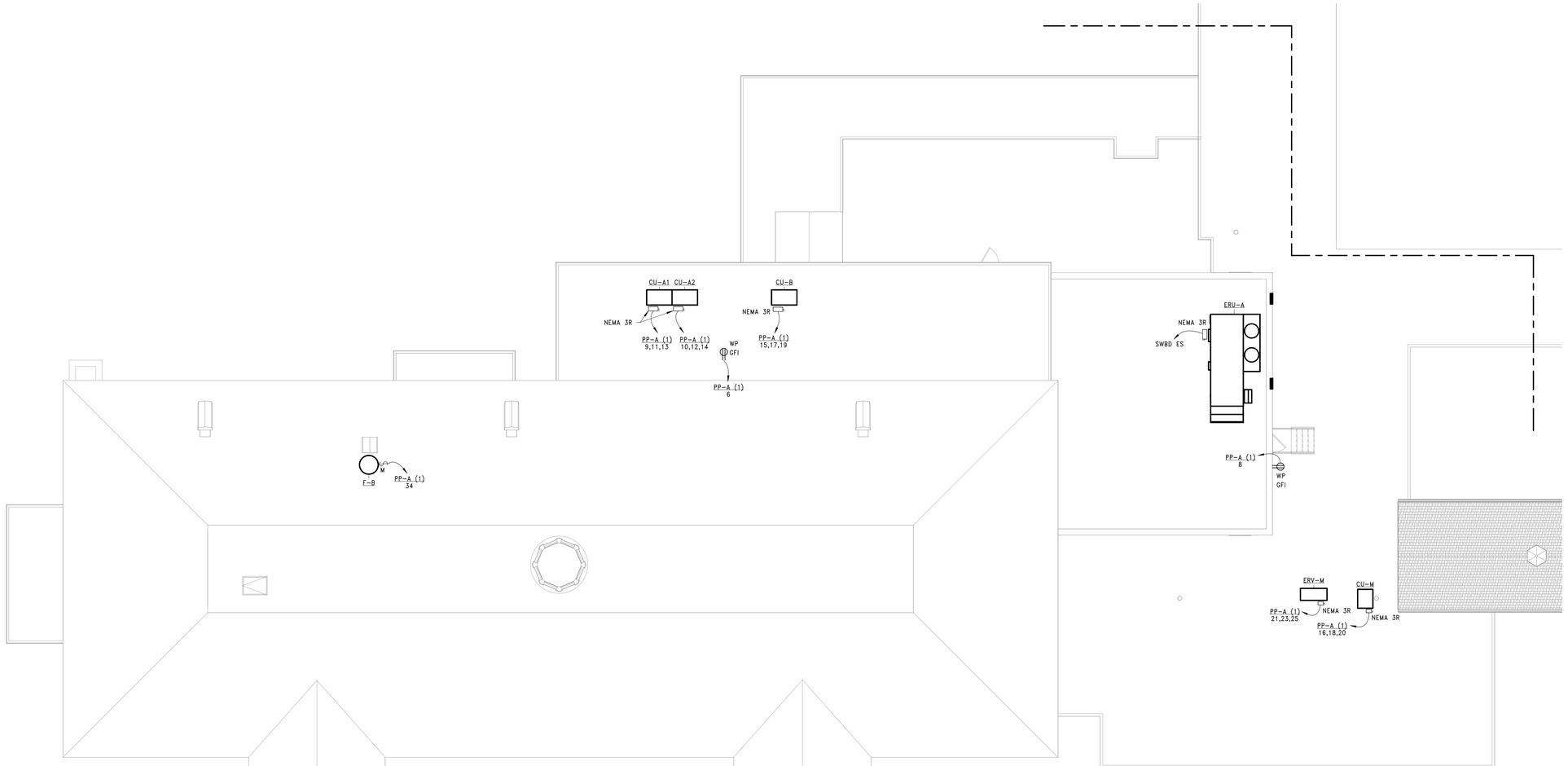
SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

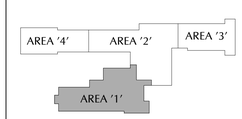
C. REFER TO EQUIPMENT CONNECTION SCHEDULE ON SHEET NO. E902 FOR BRANCH CIRCUIT DESIGNATION AND RATING.

KEY NOTES



1 ROOF PLAN - AREA '1'
E141 1/8" = 1'-0"

KEY PLAN



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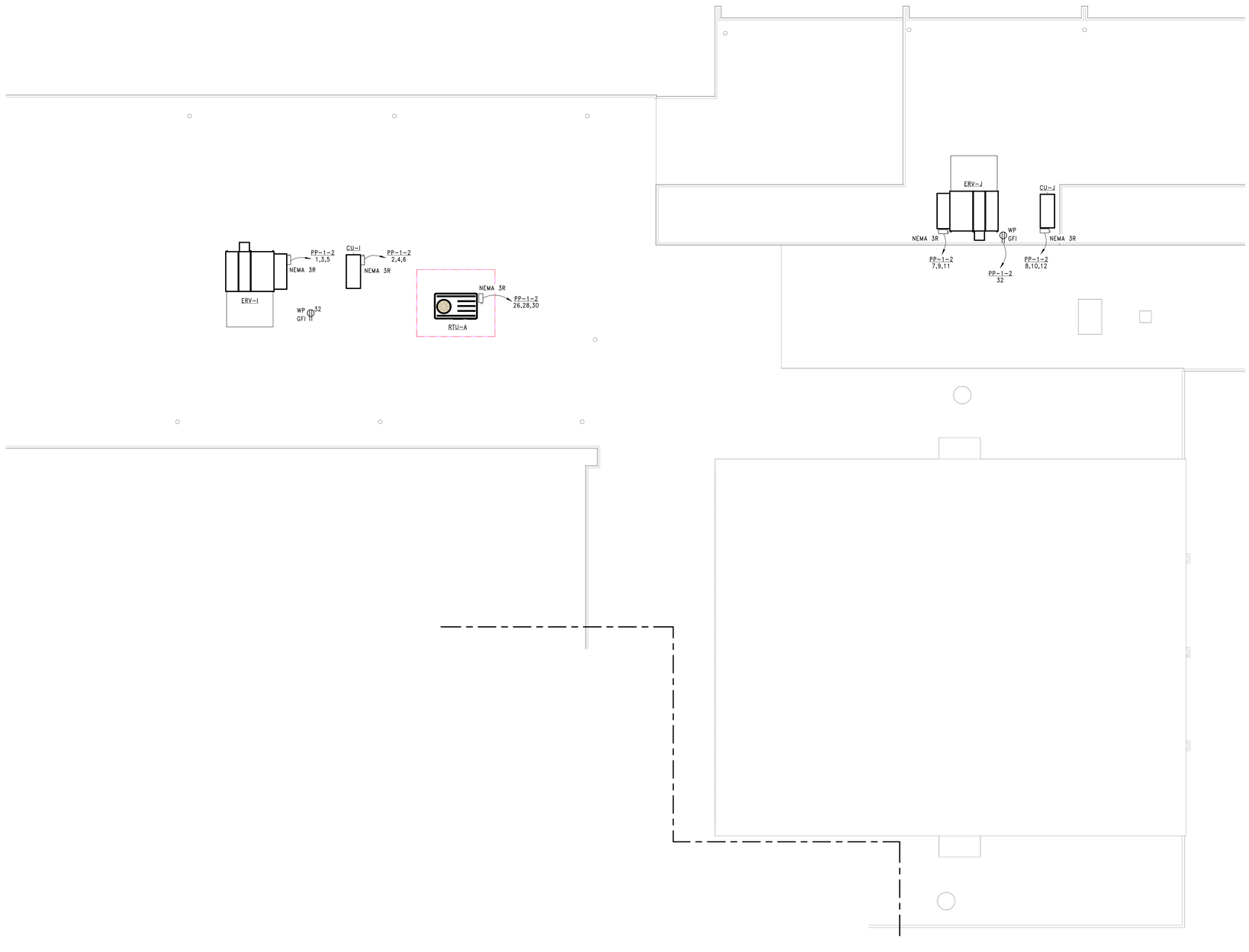
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Sheet Title
ROOF PLAN - AREA '1'

Sheet No.
PES
E141

CONSTRUCTION DOCUMENTS

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1 ROOF PLAN - AREA '2'
E142 1/8" = 1'-0"

SHEET NOTES

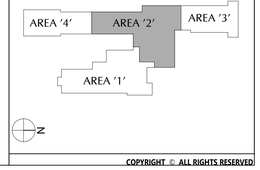
A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

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C. REFER TO EQUIPMENT CONNECTION SCHEDULE ON SHEET NO. E902 FOR BRANCH CIRCUIT DESIGNATION AND RATING.

KEY NOTES

KEY PLAN



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Sheet Title
ROOF PLAN - AREA '2'

Sheet No.
PES
E142

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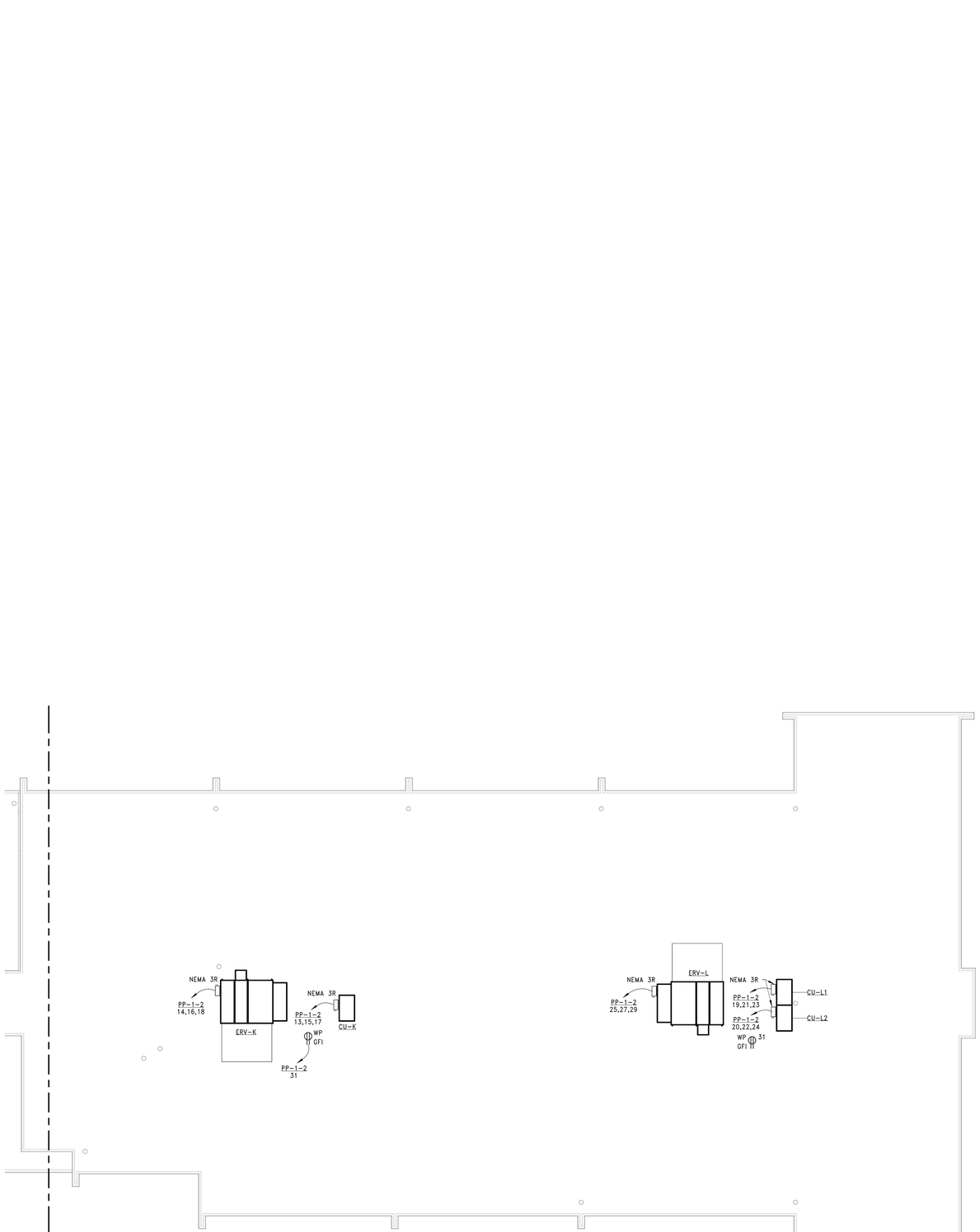
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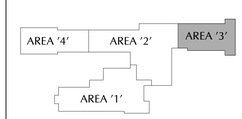
C. REFER TO EQUIPMENT CONNECTION SCHEDULE ON SHEET NO. E902 FOR BRANCH CIRCUIT DESIGNATION AND RATING.

KEY NOTES



1 ROOF PLAN - AREA '3'
E143 1/8" = 1'-0"

KEY PLAN



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ROOF PLAN - AREA '3'

Sheet No.

PES
E143

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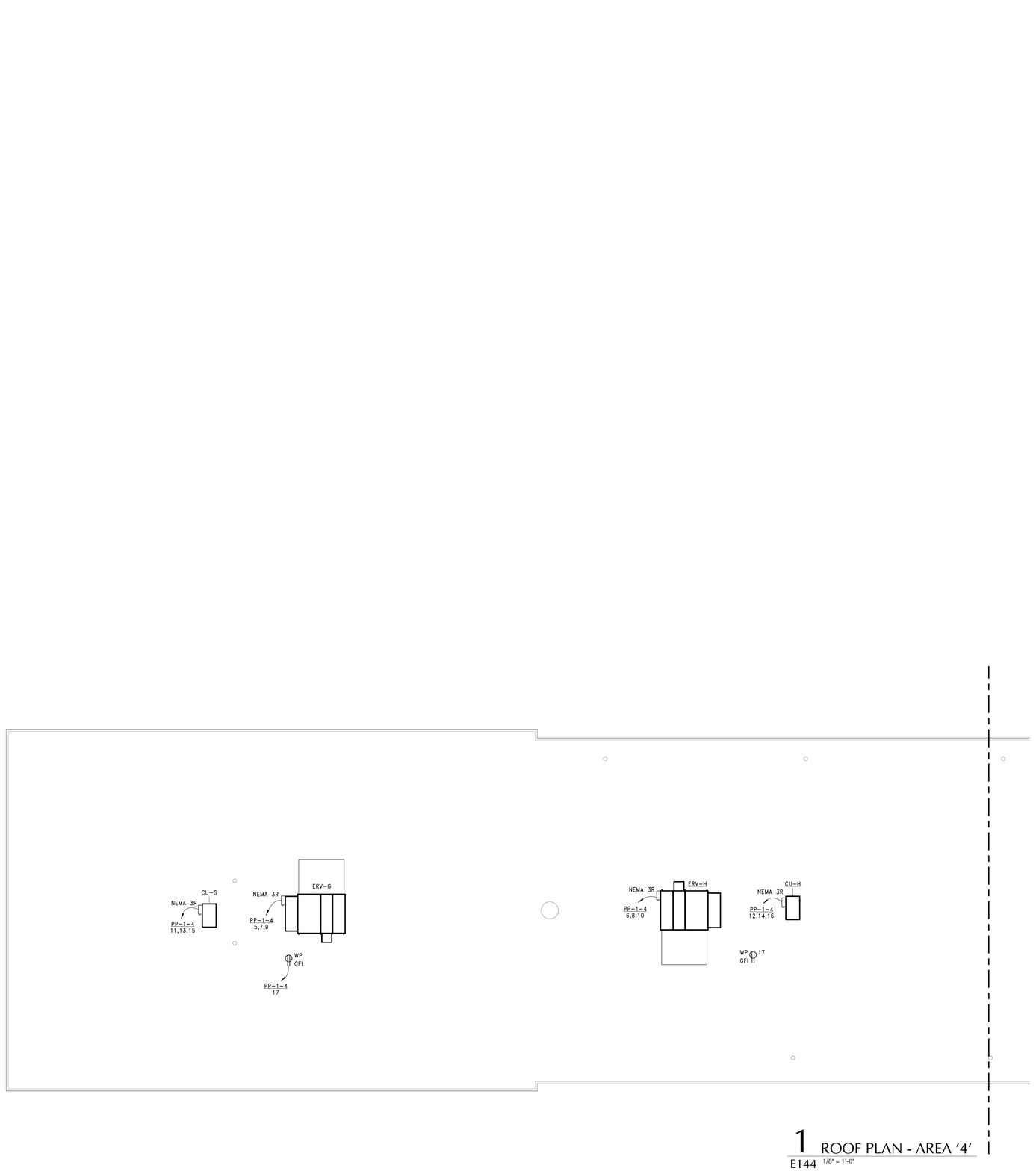
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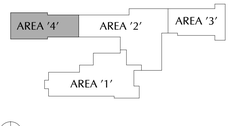
C. REFER TO EQUIPMENT CONNECTION SCHEDULE ON SHEET NO. E902 FOR BRANCH CIRCUIT DESIGNATION AND RATING.

KEY NOTES



1 ROOF PLAN - AREA '4'
E144 1/8" = 1'-0"

KEY PLAN



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Sheet Title

ROOF PLAN - AREA '4'

Sheet No.

PES
E144

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SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.

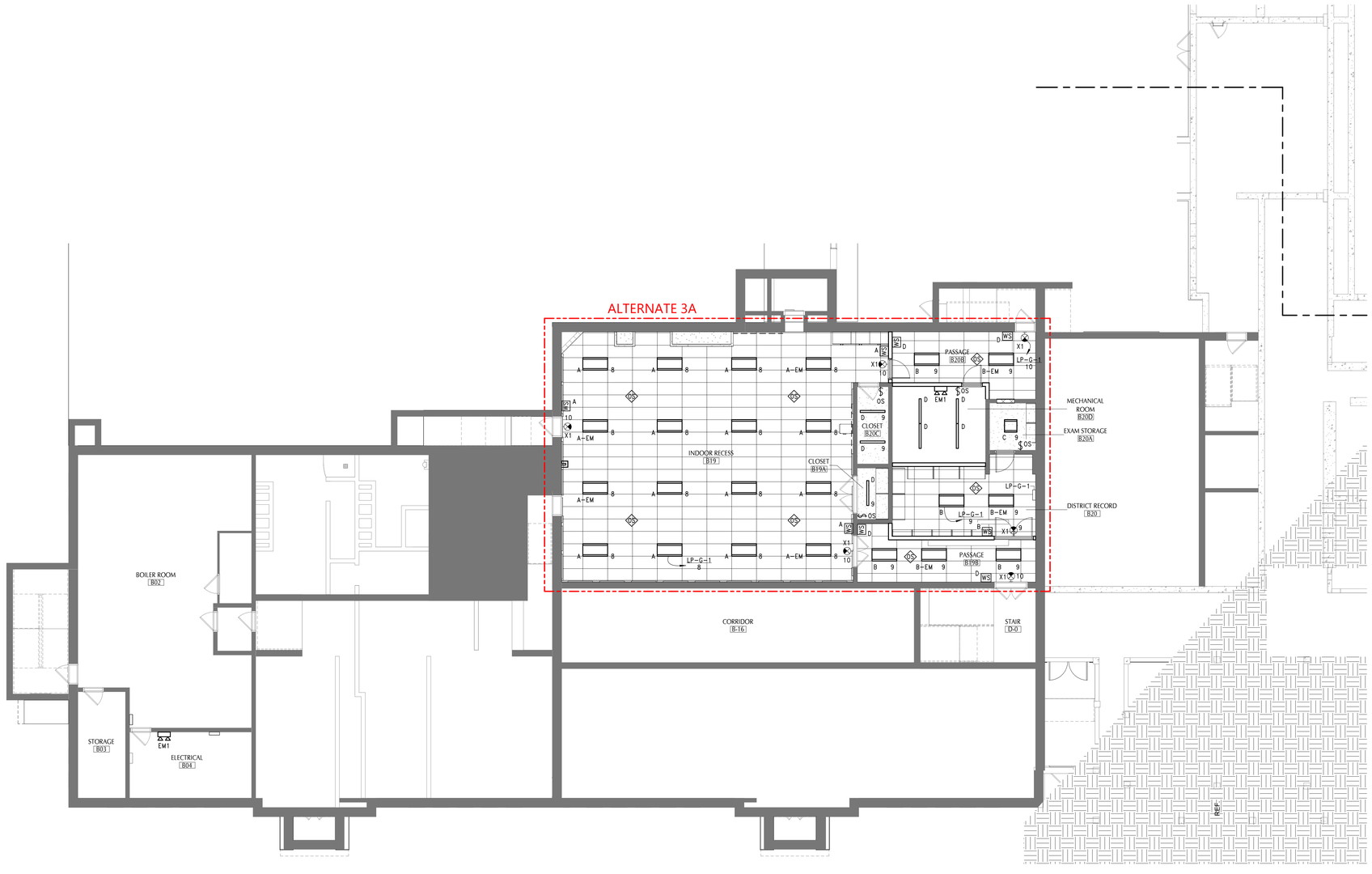
C. REFER TO LIGHTING FIXTURE SCHEDULE ON DWG E902.

D. REFER TO LIGHT FIXTURE SEQUENCE OF OPERATION ON DWG E902.

E. ALL EXIT SIGNS AND NIGHT LIGHT (NL) FIXTURES SHALL BE CONNECTED AHEAD OF ANY SWITCHING/CONTROL DEVICE (UN-SWITCHED).

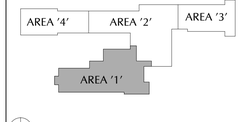
F. PROVIDE UN-SWITCHED HOT-LEG CONNECTION TO EM FIXTURES FOR VOLTAGE SENSING AND BATTERY CHARGING.

KEY NOTES



1 GROUND FLOOR LIGHTING PLAN - AREA '1'
E201 1/8" = 1'-0"

KEY PLAN



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Sheet Title
GROUND FLOOR LIGHTING PLAN - AREA '1'

Sheet No.
PES
E201

CONSTRUCTION DOCUMENTS

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SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.

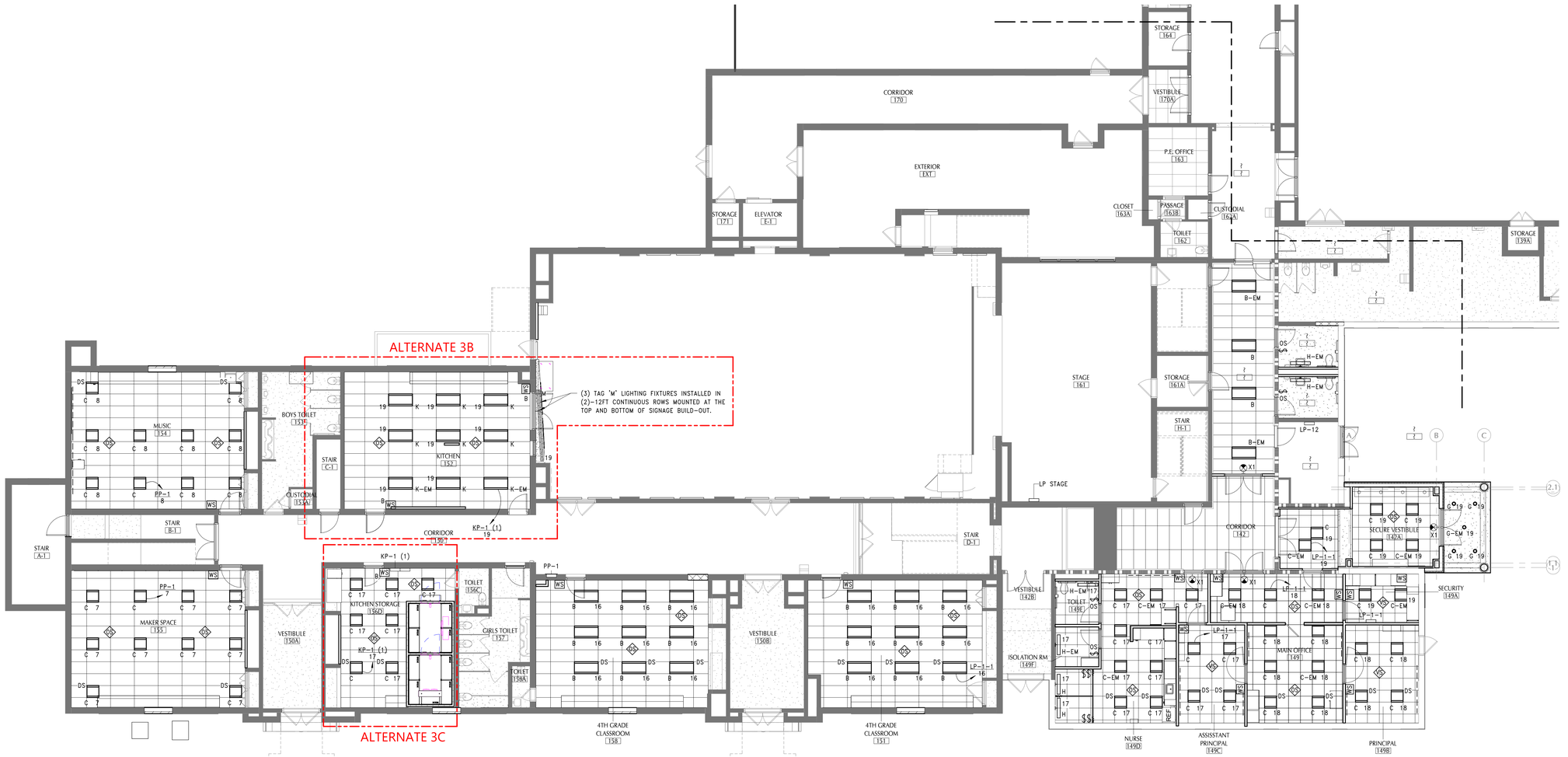
C. REFER TO LIGHTING FIXTURE SCHEDULE ON DWG E902.

D. REFER TO LIGHT FIXTURE SEQUENCE OF OPERATION ON DWG E902.

E. ALL EXIT SIGNS AND NIGHT LIGHT (NL) FIXTURES SHALL BE CONNECTED AHEAD OF ANY SWITCHING/CONTROL DEVICE (UN-SWITCHED).

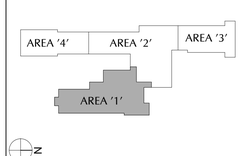
F. PROVIDE UN-SWITCHED HOT-LEG CONNECTION TO EM FIXTURES FOR VOLTAGE SENSING AND BATTERY CHARGING.

KEY NOTES



1 FIRST FLOOR LIGHTING PLAN - AREA '1'
E211 1/8" = 1'-0"

KEY PLAN



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2020 CAPITAL PROJECT - PHASE 3

Project Title

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JAMES R. BARRETT
073467
LICENSED PROFESSIONAL ENGINEER
EXPIRES 5/31/2026

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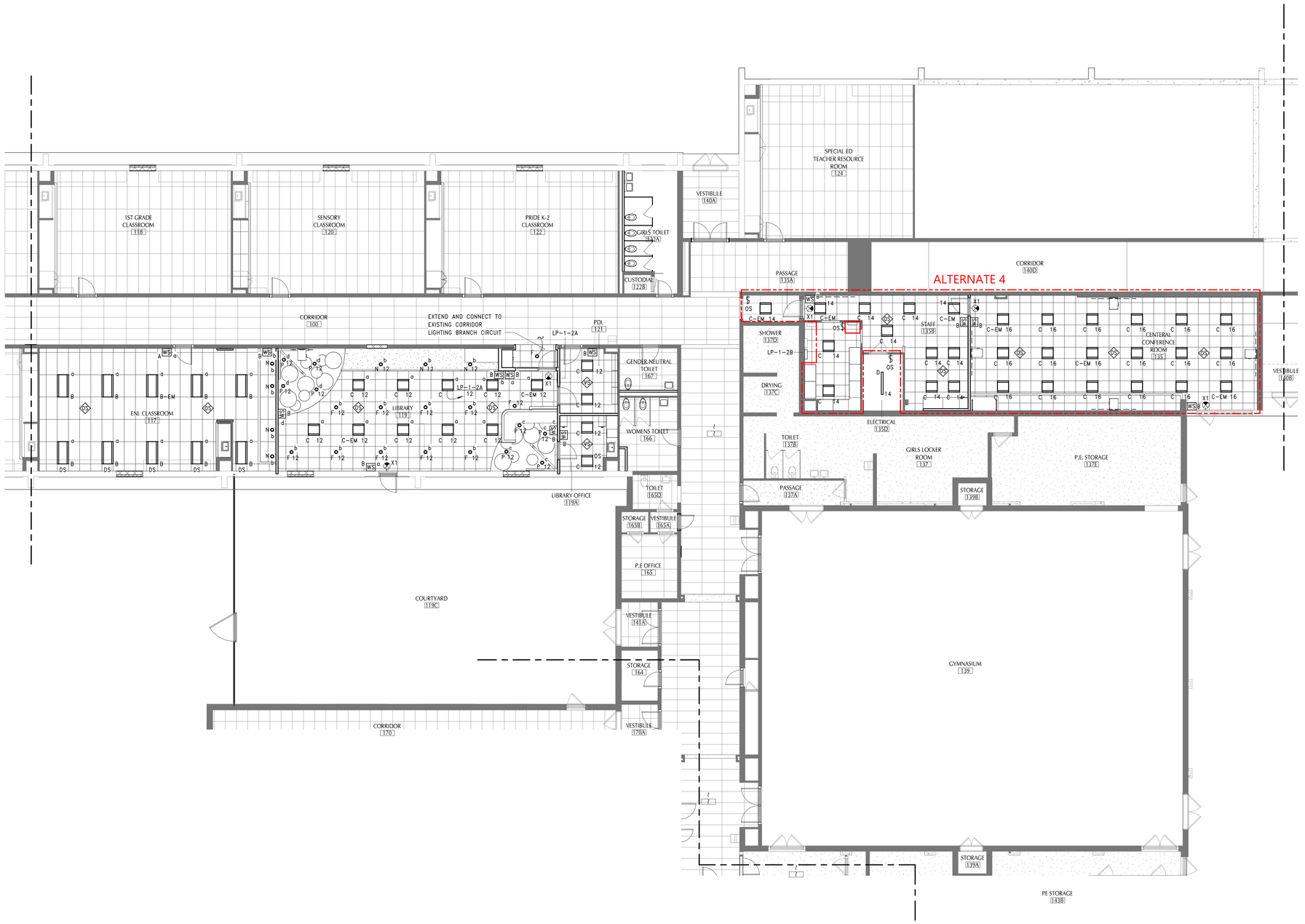
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Sheet Title
FIRST FLOOR LIGHTING PLAN - AREA '1'

Sheet No.
PES
E211

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1 FIRST FLOOR LIGHTING PLAN - AREA '2'
E212 1/8" = 1'-0"

SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.

C. REFER TO LIGHTING FIXTURE SCHEDULE ON DWG E902.

D. REFER TO LIGHT FIXTURE SEQUENCE OF OPERATION ON DWG E902.

E. ALL EXIT SIGNS AND NIGHT LIGHT (NL) FIXTURES SHALL BE CONNECTED AHEAD OF ANY SWITCHING/CONTROL DEVICE (UN-SWITCHED).

F. PROVIDE UN-SWITCHED HOT-LEG CONNECTION TO EM FIXTURES FOR VOLTAGE SENSING AND BATTERY CHARGING.

KEY NOTES

KEY PLAN



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Sheet Title
FIRST FLOOR LIGHTING PLAN - AREA '2'

Sheet No.
PES
E212

CONSTRUCTION DOCUMENTS

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Distribution Sections: SWBD-ES

Location: ELECTRICAL B04
Mounting: FREESTANDING
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 65KA
Mains Type: MCB
Mains Rating: 2000

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	A	B	C	TOTAL	Remarks
1	EX. PANEL CDP	3	400	400	0 VA	0 VA	0 VA	--	
2	PANEL PRL1	3	100	100	0 VA	0 VA	0 VA	--	
3	PANEL BP-1	3	250	225	0 VA	0 VA	0 VA	--	
4	EX. MCC-1	3	250	200	0 VA	0 VA	0 VA	--	EXTEND & RECONNECT EXIST....
5	PANEL SUB-PANEL	3	100	100	0 VA	0 VA	0 VA	--	
6	EX. PANEL P-3	3	250	150	0 VA	0 VA	0 VA	--	EXTEND & RECONNECT EXIST....
7	PANEL HP-1	3	100	100	0 VA	0 VA	0 VA	--	
8	PANEL PP-FL	3	250	150	0 VA	0 VA	0 VA	--	
9	EX. ELEVATOR	3	250	200	0 VA	0 VA	0 VA	--	EXTEND & RECONNECT EXIST....
10	PANEL LP-G-1	3	250	225	0 VA	0 VA	0 VA	--	
11	PANEL PP-1-4	3	400	400	0 VA	0 VA	0 VA	--	
12	EX. PANEL KP-1A /PANEL KP-1 - ADD ALTERNATE #3	3	400	400	0 VA	0 VA	0 VA	--	
13	PANEL PP-1	3	100	100	0 VA	0 VA	0 VA	--	
14	PANEL LP-STAGE	3	250	225	0 VA	0 VA	0 VA	--	
15	PANEL LP-1-1	3	250	225	0 VA	0 VA	0 VA	--	
16	PANEL 12	3	100	100	0 VA	0 VA	0 VA	--	
17	PANEL 10	3	250	150	0 VA	0 VA	0 VA	--	
18	PANEL PP-1-2	3	600	600	0 VA	0 VA	0 VA	--	
19	PANEL PP-6	3	250	225	0 VA	0 VA	0 VA	--	
20	PANEL PP-A	3	400	400	0 VA	0 VA	0 VA	--	
21	ERU-A	3	250	125	0 VA	0 VA	0 VA	0 VA	
22	EXISTING SEWAGE PUMP STATION	3	100	60	0 VA	0 VA	0 VA	--	
23	EXISTING PUMP RM. COMPRESSOR	3	100	100	0 VA	0 VA	0 VA	--	
24	SPARE	3	250	225	0 VA	0 VA	0 VA	--	
25	SPARE	3	250	225	0 VA	0 VA	0 VA	--	
26	SPARE	3	100	100	0 VA	0 VA	0 VA	--	
27	SPARE	3	100	100	0 VA	0 VA	0 VA	--	
28	SPACE	3	--	--	--	--	--	--	PREPARED BUS SPACE
29	SPACE	3	--	--	--	--	--	--	PREPARED BUS SPACE
30	SPACE	3	--	--	--	--	--	--	PREPARED BUS SPACE
				Total Conn. Load:	0 VA				
				Total Amps:	0				

Notes: REFER TO SPECIFICATION SECTION NO. 262413

WIRING SCHEDULE
ONE PHASE CONDUCTOR
COPPER CONDUCTORS (0-600V)

CIRCUIT RATING	CONDUIT SIZE (INCHES)	CONDUCTOR SIZE	
	NG	PHASE/ NEUTRAL	GND
20	3/4	12	12
30	3/4	10	10
40	3/4	8	8
50	3/4	8	8
60	3/4	6	6
70	1	4	4
80	1	4	4
90	1	3	3
100	1	3	3
110	1	2	2
125	1-1/4	1	1
150	1-1/4	1/0	1/0

SUBSCRIPT KEY

SUBSCRIPT	CONDUCTORS PER CONDUIT
NG	1 PHASE CONDUCTOR, 1 NEUTRAL CONDUCTOR 1 EQUIPMENT GROUNDING CONDUCTOR

WIRING SCHEDULE
TWO PHASE CONDUCTORS
COPPER CONDUCTORS (0-600V)

CIRCUIT RATING	CONDUIT SIZE (INCHES)		CONDUCTOR SIZE	
	G	NG	PHASE/ NEUTRAL	GND
20	3/4	3/4	12	12
30	3/4	3/4	10	10
40	3/4	3/4	8	10
50	3/4	3/4	8	10
60	3/4	3/4	6	10
70	1	1	4	8
80	1	1	4	8
90	1	1-1/4	3	8
100	1	1-1/4	3	8
110	1	1-1/4	2	6
125	1-1/4	1-1/4	1	6
150	1-1/4	1-1/2	1/0	6
175	1-1/2	2	2/0	6
200	1-1/2	2	3/0	6

SUBSCRIPT KEY

SUBSCRIPT	CONDUCTORS PER CONDUIT
G	2 PHASE CONDUCTORS, 1 EQUIPMENT GROUNDING CONDUCTOR
NG	2 PHASE CONDUCTORS, 1 NEUTRAL CONDUCTOR, 1 EQUIPMENT GROUNDING CONDUCTOR

WIRING SCHEDULE
THREE PHASE CONDUCTORS
COPPER CONDUCTORS (0-600V)

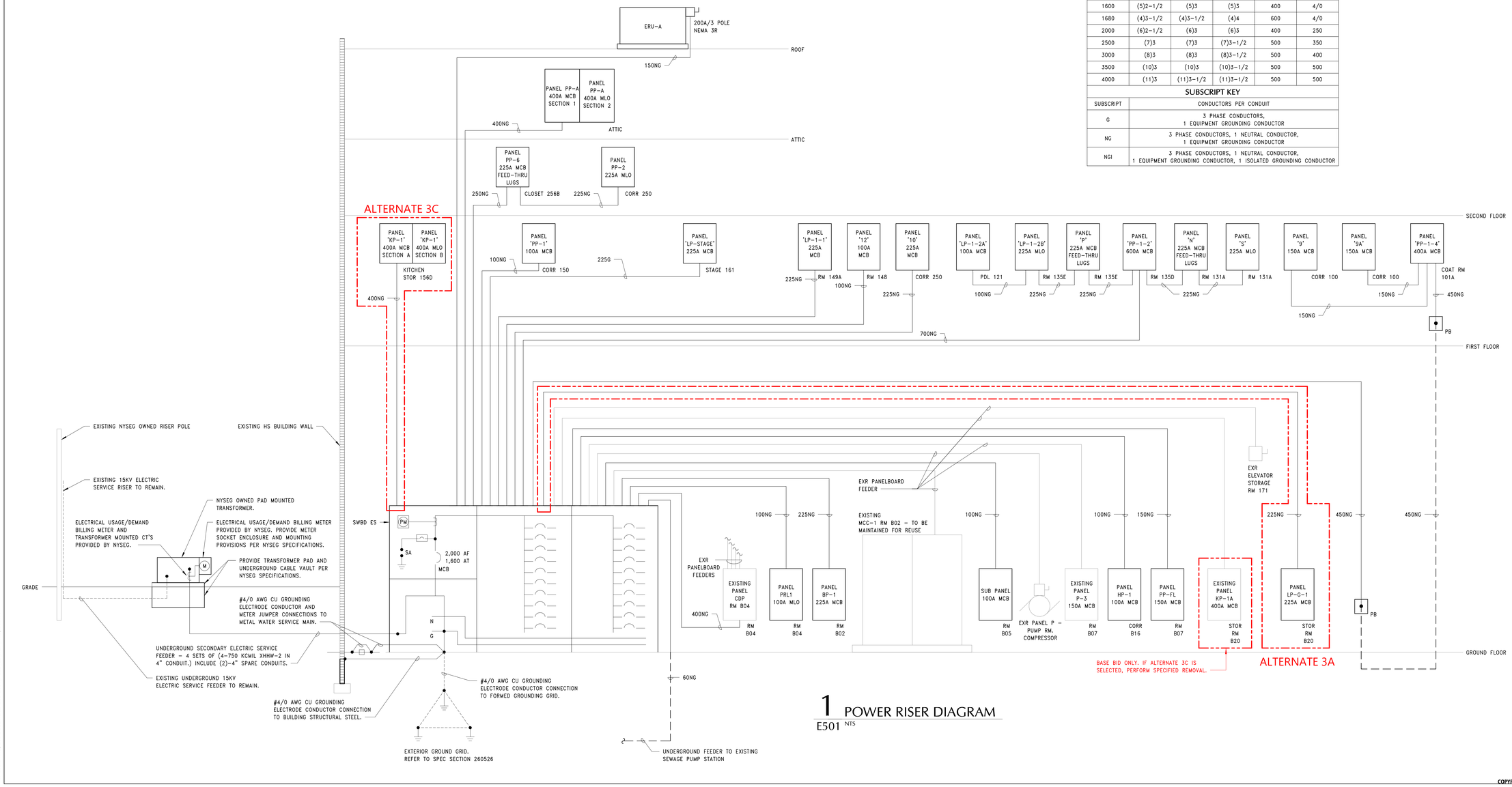
CIRCUIT RATING	CONDUIT SIZE (INCHES)			CONDUCTOR SIZE	
	G	NG	NGI	PHASE/ NEUTRAL	GND
20	3/4	3/4	3/4	12	12
30	3/4	3/4	3/4	10	10
40	3/4	3/4	3/4	8	10
50	3/4	3/4	3/4	8	10
60	3/4	1	1	6	10
70	1	1-1/4	1-1/4	4	8
80	1	1-1/4	1-1/4	4	8
90	1-1/4	1-1/4	1-1/4	3	8
100	1-1/4	1-1/4	1-1/4	3	8
110	1-1/4	1-1/4	1-1/2	2	6
125	1-1/4	1-1/2	2	1	6
150	1-1/2	2	2	1/0	6
175	2	2	2	2/0	6
200	2	2-1/2	2-1/2	3/0	6
225	2	2-1/2	2-1/2	4/0	4
250	2-1/2	2-1/2	2-1/2	250	4
300	2-1/2	2-1/2	3	350	4
350	3	3	3-1/2	500	3
400	(2)2	(2)2-1/2	(2)2-1/2	3/0	3
420	3-1/2	3-1/2	4	600	2
450	(2)2	(2)2-1/2	(2)2-1/2	4/0	2
500	(2)2-1/2	(2)2-1/2	(2)2-1/2	250	2
600	(2)2-1/2	(2)2-1/2	(2)3	350	1
700	(2)3	(2)3	(2)3-1/2	500	1/0
800	(3)2-1/2	(3)2-1/2	(3)3	300	1/0
840	(2)3-1/2	(2)3-1/2	(2)4	600	2/0
1000	(3)2-1/2	(3)3	(3)3	400	2/0
1200	(4)2-1/2	(4)2-1/2	(4)3	350	3/0
1600	(5)2-1/2	(5)3	(5)3	400	4/0
1680	(4)3-1/2	(4)3-1/2	(4)4	600	4/0
2000	(6)2-1/2	(6)3	(6)3	400	250
2500	(7)3	(7)3	(7)3-1/2	500	350
3000	(8)3	(8)3	(8)3-1/2	500	400
3500	(10)3	(10)3	(10)3-1/2	500	500
4000	(11)3	(11)3-1/2	(11)3-1/2	500	500

SUBSCRIPT KEY

SUBSCRIPT	CONDUCTORS PER CONDUIT
G	3 PHASE CONDUCTORS, 1 EQUIPMENT GROUNDING CONDUCTOR
NG	3 PHASE CONDUCTORS, 1 NEUTRAL CONDUCTOR, 1 EQUIPMENT GROUNDING CONDUCTOR
NGI	3 PHASE CONDUCTORS, 1 NEUTRAL CONDUCTOR, 1 ISOLATED GROUNDING CONDUCTOR

WIRING SCHEDULE NOTES:

1. CURRENT CARRYING CONDUCTOR AMPACITY BASED ON NEC TABLE 310.15(B)(16), COPPER WITH INSULATION TEMPERATURE RATING OF 75 DEGREES C.
2. RACEWAY FILL SCHEDULE IS BASED ON COPPER CONDUCTORS WITH THHN, THWN OR THWN-2 INSULATION.
3. MAXIMUM FILL FOR RACEWAY IS BASED ON CHAPTER 9 TABLE 1 AND TABLE C.1 FOR ELECTRICAL METALIC TUBING (EMT). ADJUST FILL AND RACEWAY SIZE FOR ANOTHER RACEWAY TYPE REQUIRED FOR THE APPLICATION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
4. IN ACCORDANCE WITH CHAPTER 9 NOTES TO TABLES, NOTE 3 THE GROUND CONDUCTOR IS INCLUDED IN THE FILL CALCULATION.



1 POWER RISER DIAGRAM
E501 NTS

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Project Title

PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

JAMES R. BARNES — STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER — 073467
EXPIRES 5/31/2026

#	DATE	DESCRIPTION

Drawn By:	NDH
Checked By:	JRB
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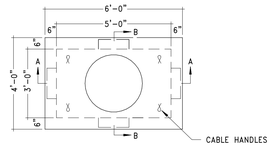
Sheet Title
POWER RISER DIAGRAM

Sheet No.
PES
E501

CONSTRUCTION DOCUMENTS

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PLAN VIEW

SPECIFICATIONS:

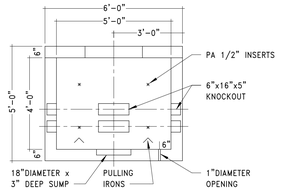
DESIGN CRITERIA: 5000 PSI @28 DAYS

ENTRAINED AIR: 5%-9%

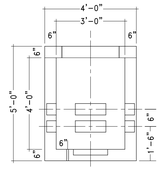
DESIGN LOADING: AASHTO HS20-44 WITH LESS THAN 2'-0" EARTH COVER

REINFORCEMENT: BAR-ASTM A615 GR60 WWR-ASTM A185/A497 GR65

NOTES:
*CONCRETE COVER AVAILABLE WITH VARIOUS SIZE OPENINGS
*VARIOUS SIZE KNOCKOUTS OR OPENINGS AS REQUIRED
*CAST IRON FRAME AND COVERS AVAILABLE



SECTION VIEW 'A'



SECTION VIEW 'B'

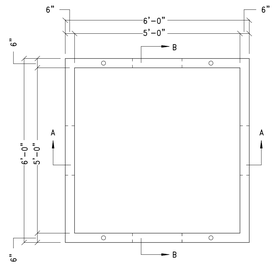


PENNSYLVANIA INSERTS
-1/2" BOLT DIAMETER
-STOPS CORROSION
-2 1/2" BOLT EMBEDMENT DEPTH
-WORK LOAD STRENGTH OF 1,260LBS



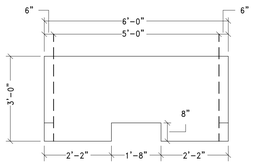
BOWCO INSERT PULLING IRON
-NONCORROSIVE
-SEVEN STRAND, 1/2" DIAMETER, WITH AN ULTIMATE STRENGTH OF 270,000 PSI
-ENCAPSULATED BY A RUSTPROOF SLEEVE THAT SLIPS OVER THE STEEL ROPE AT THE HOOKING POINT

4 PULLBOX DETAIL
E601 NTS

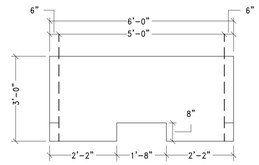


PLAN VIEW

SPECIFICATIONS:
CONCRETE: 5000PSI @ 28 DAYS
ENTRAINED AIR: 5%-9%
REINFORCING: BAR-ASTM A615 GR60
WWR-ASTM A185/A497 GR65

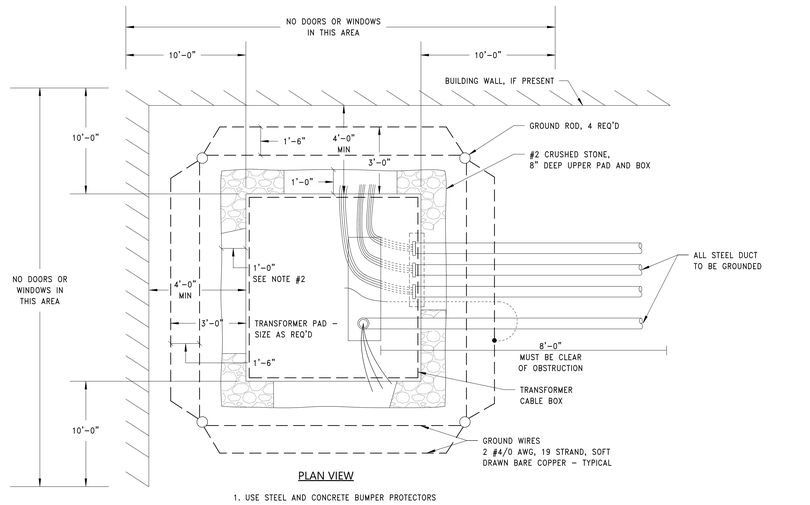


SECTION VIEW 'A'



SECTION VIEW 'B'

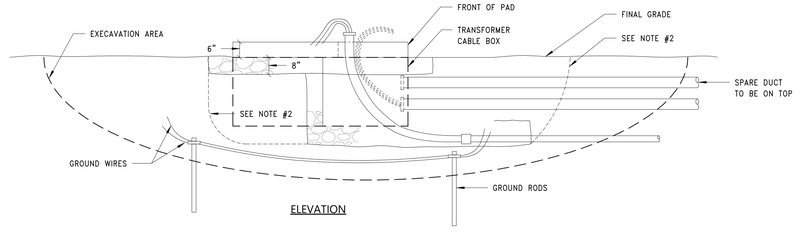
2 TRANSFORMER BASE VAULT
E601 NTS



PLAN VIEW

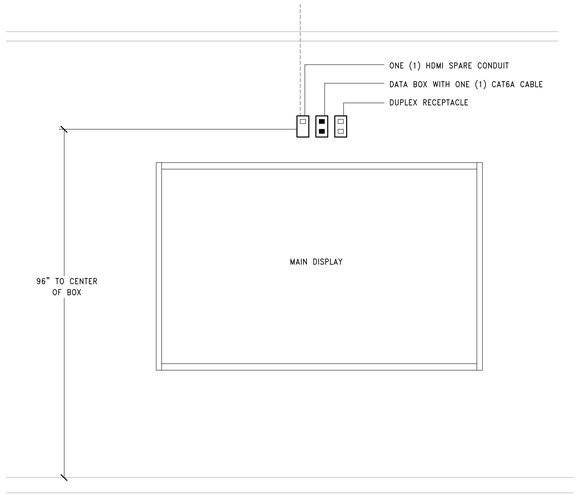
1. USE STEEL AND CONCRETE BUMPER PROTECTORS WHEN IN TRAFFIC AREAS.

2. IF PAD LOCATION IS 4' TO 10' FROM BUILDING, THE #2 STONE SHALL BE INSTALLED 3" DEEP, AS A SUMP TO COLLECT AN OIL SPILL. THIS SUMP SHALL HAVE PROPER DRAINAGE.

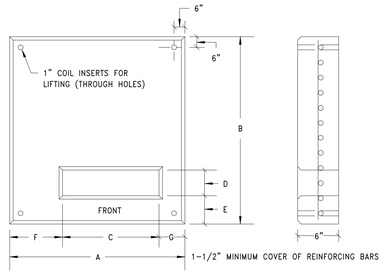


ELEVATION

1 PAD MOUNTED TRANSFORMER INSTALLATION
E601 NTS



5 TEACHING WALL PROJECTOR RECEPTACLE ELEVATION
E601 NTS



DIMENSIONS OF POURED OR PRECAST CONCRETE PADS												
	TRANSFORMER RATING			DIMENSIONS IN INCHES								
TYPE	KV	PHASE	KVA	A	B	C	D	E	F	G	WEIGHT	SS#
UTIL.	15	3	750-2500	89	75	50	17	14	21	18	3100	262-781-00

NOTES:
1. REINFORCE WITH GRADE 60 #4 BARS ON 6" CENTERS BOTH WAYS
2. 4000 PSI CONCRETE AT 28 DAYS
3. TOP AND BOTTOM TO BE SMOOTH FINISH

3 PADS-SIZING THREE PHASE TRANSFORMERS
E601 NTS

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PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

Project Title



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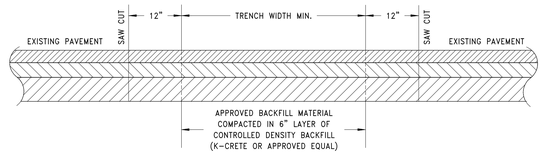
DETAILS

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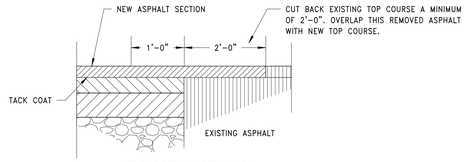
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E601

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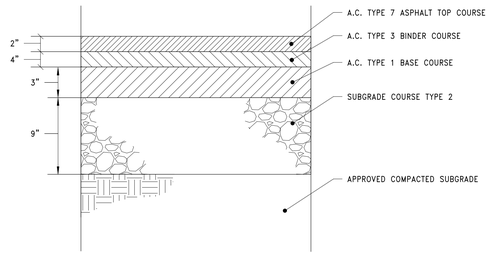


TRENCH RESTORATION

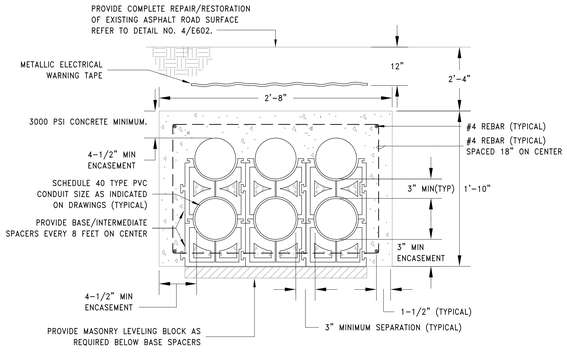


USE THIS DETAIL WHEREVER NEW
ASPHALT ABUTS EXISTING ASPHALT

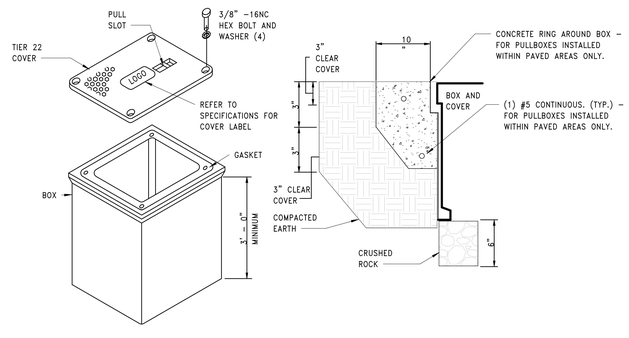
ASPHALT TRANSITION



4 ASPHALT CONCRETE PAVEMENT REPAIR
E602 NTS



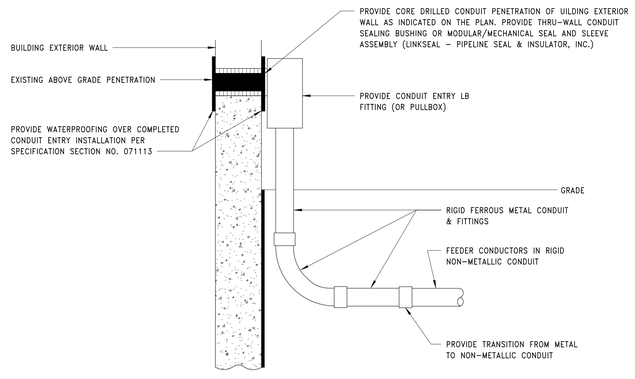
5 TYPICAL 6-WAY DUCTBANK SECTION DETAIL
E602 NTS



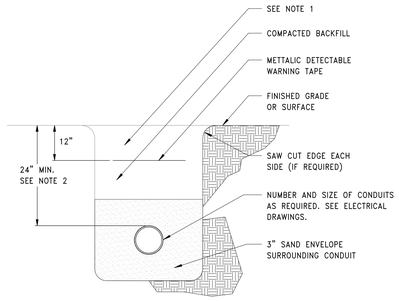
NOTES

1. SIZE PULLBOX AT EACH LOCATION AS REQUIRED BY CODE. MINIMUM PULLBOX SIZE SHALL BE AS SHOWN ON THE DRAWINGS.
2. BASIS OF DESIGN: QUAZITE BOX PG STYLE WITH MATCHING COVER.
3. PROVIDE PULL ROPE IN ALL CONDUITS ENTERING PULLBOX.
4. COVER AND BOX SHALL BE DESIGNED TO SUPPORT TIER 22 LOADS.

1 UNDERGROUND PULLBOX
E602 NTS



3 CONDUIT ENTERING EXISTING BUILDING
E602 NTS



NOTE

1. REPLACE EXISTING SURFACE CONDITIONS IN KIND TO INCLUDE, BUT NOT LIMITED TO: CONCRETE, CRUSHED STONE, SELECT GRAVEL, ASPHALT, TOPSOIL AND GRASS.
2. 24" MIN. OR 6" BELOW BOTTOM OF FROST LINE, WHICHEVER IS DEEPER.

2 TYPICAL DIRECT BURIED CONDUIT DETAIL
E602 NTS

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PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

Project Title

STATE OF NEW YORK
JAMES R. BARKER
073467
LICENSED PROFESSIONAL ENGINEER
EXPIRES 5/31/2026

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Sheet Title

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PANELBOARD REPLACEMENT SCHEDULE

EXISTING PANELBOARD DATA						REPLACEMENT PANELBOARD DATA				REPLACEMENT ENCLOSURE DATA			REPLACEMENT BRANCH CIRCUIT BREAKERS				NOTES
PANEL DESIGNATION	LOCATION	VOLTAGE RATING	AMPERE RATING	POLE SPACE	ENCLOSURE MOUNTING	VOLTAGE RATING	MAIN BUS RATING	MAIN DEVICE RATING	POLE SPACE	MOUNTING	DIMENSIONS	FEEDER ENTRY	QNTY	FRAME	TRIP	POLES	
PRL1	ELECTRICAL RM B-04	208/120V 3 PHASE 4 WIRE	100A MLO	24	SURFACE	208/120V 3 PHASE 4 WIRE	100A	100A MCB	30	SURFACE	20" WIDE X 5.75" DEEP X 44" HIGH	TOP	5 4 2* 14**	100 100 100 100	20 20 20 –	2 1 1 1	1, 4
BP-1	BOILER RM B-02	208/120V 3 PHASE 4 WIRE	100A MCB	40	SURFACE	208/120V 3 PHASE 4 WIRE	225A	225A MCB	42	SURFACE	20" WIDE X 5.75" DEEP X 50" HIGH	TOP	3 18 1 2* 11**	100 100 100 100 100	20 20 20 20 –	3 1 2 1 1	1, 4
SUB-PANEL	ELECTRICAL RM B-05	120/240V 1 PHASE 3 WIRE	400A MLO	12	SURFACE	208/120V 3 PHASE 4 WIRE	100A	100A MCB	30	SURFACE	20" WIDE X 5.75" DEEP X 56" HIGH	TOP	12 4 4* 10**	100 100 100 100	20 15 20 –	1 1 1 1	1, 4
HP-1	CORRIDOR B-16	120/240V 1 PHASE 3 WIRE	100A MLO	20	RECESSED	208/120V 3 PHASE 4 WIRE	100A	100A MCB	30	RECESSED	20" WIDE X 5.75" DEEP X 44" HIGH	TOP	12 2 4* 10**	100 100 100 100	20 30 20 –	1 2 1 1	1, 4
PP-FL	FACULTY LOUNGE B-14	208/120V 3 PHASE 4 WIRE	125A MCB	36	SURFACE	208/120V 3 PHASE 4 WIRE	225A	150A MCB	42	SURFACE	20" WIDE X 5.75" DEEP X 56" HIGH	TOP	21 4 4* 9**	100 100 100 100	20 30 20 –	1 2 1 1	1, 4
PP-1	CORRIDOR 150	120/240V 1 PHASE 3 WIRE	100A MLO	24	RECESSED	208/120V 3 PHASE 4 WIRE	100A	100A MCB	30	RECESSED	20" WIDE X 5.75" DEEP X 44" HIGH	BOTTOM	21 5 2	100 100 100	20 15 30	1 1 2	1, 3, 4
STAGE PANEL LP-STAGE	STAGE 161	208/120V 3 PHASE 4 WIRE	175A MCB	42	RECESSED	208/120V 3 PHASE 4 WIRE	225A	225A MCB	42	RECESSED	20" WIDE X 5.75" DEEP X 56" HIGH	BOTTOM	7 30 1 2*	100 100 100 100	20 15 20 20	1 1 3 1	1, 3, 4
PANEL 12	MECHANICAL RM 148	208/120V 3 PHASE 4 WIRE	100A MCB	36	SURFACE	208/120V 3 PHASE 4 WIRE	100A	100A MCB	30	SURFACE	20" WIDE X 5.75" DEEP X 56" HIGH	TOP	12 2 2 1 4* 4**	100 100 100 100 100 100	20 15 15 20 20 –	1 1 3 2 1 1	1, 3, 4
PANEL 10	CORRIDOR 141	208/120V 3 PHASE 4 WIRE	150A MCB	42	RECESSED	208/120V 3 PHASE 4 WIRE	225A	150A MCB	42	SURFACE	20" WIDE X 5.75" DEEP X 56" HIGH	BOTTOM	42	100	20	1	1, 3, 4
PANEL P	STAFF 135B	208/120V 3 PHASE 4 WIRE	100A MCB	42	SURFACE	208/120V 3 PHASE 4 WIRE	225A	225A MCB	42	SURFACE	20" WIDE X 5.75" DEEP X 56" HIGH	TOP	1 29 1 3 1 2*	100 100 100 100 100 100	60 20 20 40 15 20	3 1 2 1 3 1	1, 2, 4
PANEL S	CUSTODIAL 131A	208/120V 3 PHASE 4 WIRE	100A MCB	42	SURFACE	208/120V 3 PHASE 4 WIRE	225A	225A MLO	42	SURFACE	20" WIDE X 5.75" DEEP X 56" HIGH	TOP	32 5	100 100	20 30	1 2	1, 4
PANEL N	CUSTODIAL 131A	208/120V 3 PHASE 4 WIRE	100A MCB	42	SURFACE	208/120V 3 PHASE 4 WIRE	225A	225A MCB	42	SURFACE	20" WIDE X 5.75" DEEP X 56" HIGH	TOP	42	100	20	1	1, 2, 4
PANEL 9	CORRIDOR 2 100-2	208/120V 3 PHASE 4 WIRE	150A MCB	42	RECESSED	208/120V 3 PHASE 4 WIRE	225A	150A MCB	42	RECESSED	20" WIDE X 5.75" DEEP X 56" HIGH	TOP	40 2	100 100	20 20	1 2	1, 4
PANEL 9A	CORRIDOR 1 100-1	208/120V 3 PHASE 4 WIRE	100A MCB	36	RECESSED	208/120V 3 PHASE 4 WIRE	225A	150A MCB	42	RECESSED	20" WIDE X 5.75" DEEP X 56" HIGH	TOP	28 8 2* 4**	100 100 100 100	20 15 20 –	1 1 1 1	1, 4
PANEL PP-6	CLOSET C-1	208/120V 3 PHASE 4 WIRE	100A MLO	42	SURFACE	208/120V 3 PHASE 4 WIRE	225A	225A MCB	42	SURFACE	20" WIDE X 5.75" DEEP X 56" HIGH	TOP	30 5 2 3*	100 100 100 100	20 15 30 –	1 1 2 1	1, 2, 4
PANEL PP-2	CORRIDOR 250	208/120V 3 PHASE 4 WIRE	100A MLO	24	RECESSED	208/120V 3 PHASE 4 WIRE	225A	225A MLO	30	RECESSED	20" WIDE X 5.75" DEEP X 56" HIGH	TOP	8 7 4* 11*	100 100 100 100	20 15 20 –	1 1 2 1	1, 4
PANEL PP-A	ATTIC	208/120V 3 PHASE 4 WIRE	100A MCB	30	SURFACE	208/120V 3 PHASE 4 WIRE	400A	400A MCB	84	SURFACE	DOUBLE SECTION 20" WIDE X 5.75" DEEP X 56" HIGH	TOP	REFER TO PANELBOARD SCHEDULE ON DRAWING E903				1, 3, 4, 6

* PROVIDE SPARE BRANCH CIRCUIT BREAKERS AS INDICATED.

** PROVIDE BUS SPACE AS INDICATED

*** APPROXIMATE OVERALL REPLACEMENT BACKBOX ENCLOSURE DIMENSIONS. FOR RECESSED MOUNTING, MODIFY EXISTING WALL OPENING AS NECESSARY FOR PROPER INSTALLATION.

PANELBOARD REPLACEMENT SCHEDULE NOTES:

1. PROVIDE REPLACEMENT PANELBOARD WITH MINIMUM 22,000 AMPERE RMS SYMMETRICAL SHORT CIRCUIT INTERRUPTING RATING. ALL EQUIPMENT SHALL BE UL LISTED AS FULLY RATED EQUIPMENT.
2. PROVIDE PANELBOARD WITH FEED-THRU LUGS RATED TO MATCH RATING OF PANELBOARD BUS.
3. PROVIDE PANELBOARD WITH MAIN DEVICE INSTALLED AT BOTTOM OF BUS.
4. PROVIDE PANELBOARD WITH INTEGRAL SURGE SUPPRESSION DEVICE.
5. PROVIDE PANELBOARD WITH SUB-FEED CIRCUIT BREAKER.
6. REFER TO PANELBOARD SCHEDULE ON SHEET NO. PES E903.

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Consultant

Project Title

PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

STATE OF NEW YORK
JAMES R. BARRETT
073467
LICENSED PROFESSIONAL ENGINEER
EXPIRES 5/31/2026

#	DATE	DESCRIPTION

Drawn By: NDH
Checked By: JRB
Proj. #: 13-12-01-04-0-001-024
CSArch Proj. #: 208-2101.03
Issued for Bid: 11/03/23

Sheet Title
REPLACEMENT PANELBOARD SCHEDULES

Sheet No.
PES
E901

CONSTRUCTION DOCUMENTS

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LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	WATTAGE	VOLTAGE	REMARKS
A	LED 2X4 RECESSED STATIC TROFFER	MARK	WHSPRLCTR2X48OCRI40K6000LMMIN1120YBCZT	57W	120	
A-EM	LED 2X4 RECESSED STATIC TROFFER W/EMERGENCY BACKUP	MARK	WHSPRLCTR2X48OCRI40K6000LMMIN1120YBCZT E10WLCP	57W	120	
B	LED 2X4 RECESSED STATIC TROFFER	MARK	WHSPRLCTR2X48OCRI40K4000LMMIN1120SWCZT	34W	120	
B-EM	LED 2X4 RECESSED STATIC TROFFER W/EMERGENCY BACKUP	MARK	WHSPRLCTR2X48OCRI40K4000LMMIN1120SWCZT E10WLCP	34W	120	
C	LED 2X2 RECESSED STATIC TROFFER	MARK	WHSPRLCTR2X28OCRI40K4000LMMIN1120SWCZT	34W	120	
C-EM	LED 2X2 RECESSED STATIC TROFFER W/EMERGENCY BACKUP	MARK	WHSPRLCTR2X28OCRI40K4000LMMIN1120SWCZT E10WLCP	34W	120	
D	LED 4 FT STRIP LIGHT	LITHONIA	CLX LED LINEAR L48400LMSEFFDLWD120GZ1040K80CRIWH	28W	120	
EM1	COMMERCIAL LED EMERGENCY BATTERY LIGHTING UNIT	LITHONIA	ELM6LU1VOLTLTPSDRT - RTKIT	5W	120/277	PROVIDE REMOTE TEST KIT
F	LED 4 INCH ROUND RECESSED DOWNLIGHT	GOTHAM	EVQ440/20ARWWDLSS120GZ1	20W	120	
G	8 INCH ROUND RECESSED VANDAL RESISTANT DOWNLIGHT	GOTHAM	EVQ840/30ARLSSMWDFOL120GZ1DWH	47W	120	
G-EM	8 INCH ROUND RECESSED VANDAL RESISTANT DOWNLIGHT W/EMERGENCY BACKUP	GOTHAM	EVQ840/30ARLSSMWDFOL120GZ1DWH ELRSD	47W	120	
H	LED 36 INCH UP/DOWN DISTRIBUTION WALL BRACKET	KENALL	MPH36MW34/34L40K8DIM1DDV	71W	120	
H-EM	LED 36 INCH UP/DOWN DISTRIBUTION WALL BRACKET W/EMERGENCY BACKUP	KENALL	MPH36MW34/34L40K8DIM1SDV LEL	71W	120	
K	2X4 RECESSED FOOD SERVICE TROFFER	KENALL	CSEDO2467L40K8DIM11205F4HSYM	72W	120	
K-EM	2X4 RECESSED FOOD SERVICE TROFFER W/EMERGENCY BACKUP	KENALL	CSEDO2467L40K8DIM11205F4HSYM LEL	72W	120	
M	4FT LED SURFACE MOUNTED STRIP	LITHONIA	CSS L48 4000LM MVOLT 40K80CRI	35W	120	REFER TO DETAIL NO. 9/A305
N	SURFACE MOUNT, EDGE LIT 6 INCH ROUND DOWNLIGHT	PRESCOLITE	LBSE-6RD-35K8-WH	13W	120	
P	PENDANT MOUNT, 4 INCH ROUND CYLINDER	GOTHAM	EVO4CC-40/15-ARLSMWDMVOLT GZ1JBXCCCCANC120DWHAMF	14W	120	
X1	WALL MOUNTED EXIT SIGN W/EMERGENCY BACKUP	LITHONIA	LQC R EL N	30W	120	

EQUIPMENT CONNECTION SCHEDULE - SINGLE POINT CONNECTION

TAG	HP	VOLTAGE	PHASE	FLA	MCA	MOCP	POWER SOURCE	CIRCUIT BREAKER	WIRE SIZE	DISCONNECT SWITCH	DISCONNECT SIZE	FA SHUTDOWN	FA SUPPLY DUCT DETECTOR
CU-A1		208	3		40	60	PP-A (1)	9,11,13	1"C - 3#6, 1#10 G	FIELD PROVIDED	60A		
CU-A2		208	3		40	60	PP-A (1)	10,12,14	1"C - 3#6, 1#10 G	FIELD PROVIDED	60A		
CU-B		208	3		47	70	PP-A (1)	15,17,19	1.25"C - 3#4, 1#6 G	FIELD PROVIDED	100A		
CU-G		208	3		47	70	PP-1-4	11,13,15	1.25"C - 3#4, 1#6 G	FIELD PROVIDED	100A		
CU-H		208	3		47	70	PP-1-4	12,14,16	1.25"C - 3#4, 1#6 G	FIELD PROVIDED	100A		
CU-I		208	3		56	90	PP-1-2	2,4,6	1.25"C - 3#4, 1#6 G	FIELD PROVIDED	100A		
CU-J		208	3		56	90	PP-1-2	8,10,12	1.25"C - 3#4, 1#6 G	FIELD PROVIDED	100A		
CU-K		208	3		47	70	PP-1-2	13,15,17	1"C - 3#6, 1#10 G	FIELD PROVIDED	100A		
CU-L1		208	3		31	45	PP-1-2	19,21,23	1"C - 3#6, 1#10 G	FIELD PROVIDED	60A		
CU-L2		208	3		31	45	PP-1-2	20,22,24	1"C - 3#6, 1#10 G	FIELD PROVIDED	60A		
CU-M		208	3		23	35	PP-A (1)	16,18,20	1.25"C - 3#10, 1#12 G	FIELD PROVIDED	60A		
CUH-B-142A		120	1		3.88	15	LP-1-1	20	.75"C - 2#12, 1#12 G	FIELD PROVIDED	30A		
CUH-B-152		120	1		3.88	15	KP-1 (1)	40	.75"C - 2#12, 1#12 G	FIELD PROVIDED	30A		
ERU-A		208	3	94.7	113.6	125	SWBD ES		REFER TO DETAIL 1/E501	FACTORY PROVIDED		PROVIDE	PROVIDE
ERV-A		120	1	8	18	20	PP-A (1)	27	.75"C - 2#12, 1#12 G	FACTORY PROVIDED		PROVIDE	
ERV-B		120	1	8	18	20	PP-A (1)	22	.75"C - 2#12, 1#12 G	FACTORY PROVIDED		PROVIDE	
ERV-C		120	1	8	18	20	PP-A (1)	24	.75"C - 2#12, 1#12 G	FACTORY PROVIDED		PROVIDE	
ERV-D		120	1	8	18	20	PP-A (1)	29	.75"C - 2#12, 1#12 G	FACTORY PROVIDED		PROVIDE	
ERV-G		208	3	8.6	19.4	25	PP-1-4	5,7,9	.75"C - 3#10, 1#10 G	FACTORY PROVIDED		PROVIDE	PROVIDE
ERV-H		208	3	8.6	19.4	25	PP-1-4	6,8,10	.75"C - 3#10, 1#10 G	FACTORY PROVIDED		PROVIDE	PROVIDE
ERV-I		208	3	8.6	19.4	25	PP-1-2	1,3,5	.75"C - 3#10, 1#10 G	FACTORY PROVIDED		PROVIDE	PROVIDE
ERV-J		208	3	8.6	19.4	25	PP-1-2	7,9,11	.75"C - 3#10, 1#10 G	FACTORY PROVIDED		PROVIDE	PROVIDE
ERV-K		208	3	8.6	19.4	25	PP-1-2	14,16,18	.75"C - 3#10, 1#10 G	FACTORY PROVIDED		PROVIDE	PROVIDE
ERV-L		208	3	8.6	19.4	25	PP-1-2	25,27,29	.75"C - 3#10, 1#10 G	FACTORY PROVIDED		PROVIDE	PROVIDE
ERV-M		208	1	4.8	3.9	15	PP-A (1)	21,23,25	.75"C - 3#12, 1#12 G	FACTORY PROVIDED		PROVIDE	
ERV-N		208	1	4.8	3.9	15	PP-A (1)	28,30,32	.75"C - 3#12, 1#12 G	FACTORY PROVIDED		PROVIDE	
* F-B		120	1	12.5			PP-A (1)	34	.75"C - 2#12, 1#12 G	FIELD PROVIDED	30A	PROVIDE	
* F-C		120	1	2.45			KP-1 (1)	42	.75"C - 2#12, 1#12 G	FIELD PROVIDED	30A	PROVIDE	
GMU-A		120	1				LP-G-1	7	.75"C - 2#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-A-156D		208	1		3	15	PP-A (1)	1,3	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-B-254		208	1		4.1	15	PP-A (1)	2,4	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-C-252		208	1		4.1	15	PP-A (1)	2,4	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-D-154		208	1		4.1	15	PP-A (1)	2,4	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-E-151		208	1		4.1	15	PP-A (1)	5,7	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-E-155		208	1		4.1	15	PP-A (1)	1,3	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-E-158		208	1		4.1	15	PP-A (1)	5,7	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-E-251		208	1		4.1	15	PP-A (1)	5,7	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-E-255		208	1		4.1	15	PP-A (1)	5,7	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-E-259		208	1		4.1	15	PP-A (1)	1,3	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-F-129		208	1		4.1	15	LP-1-2B	17,19	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-F-257		208	1		4.1	15	PP-A (1)	1,3	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-G-103		208	1		4.1	15	PP-1-4	2,4	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-G-104		208	1		4.1	15	PP-1-4	1,3	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-G-113		208	1		4.1	15	PP-1-4	2,4	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-G-114		208	1		4.1	15	PP-1-4	1,3	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-G-115		208	1		4.1	15	PP-1-4	2,4	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-G-116		208	1		4.1	15	PP-1-4	1,3	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-G-118		208	1		4.1	15	LP-1-2A	1,3	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-G-120		208	1		4.1	15	LP-1-2A	1,3	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-G-122		208	1		4.1	15	LP-1-2A	1,3	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-G-123		208	1		4.1	15	LP-1-2B	17,19	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-H-101		208	1		4.1	15	PP-1-4	2,4	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-H-102		208	1		4.1	15	PP-1-4	1,3	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-I-124		208	1		4.1	15	LP-1-2B	1,3	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-I-125		208	1		4.1	15	LP-1-2B	17,19	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-I-126		208	1		4.1	15	LP-1-2B	1,3	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-I-127		208	1		4.1	15	LP-1-2B	17,19	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-I-128		208	1		4.1	15	LP-1-2B	1,3	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-I-130		208	1		4.1	15	LP-1-2B	1,3	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-I-132		208	1		4.1	15	LP-1-2B	2,4	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-I-134		208	1		4.1	15	LP-1-2B	2,4	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-I-136		208	1		4.1	15	LP-1-2B	2,4	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-J-117		208	1		5.6	15	LP-1-2A	2,4	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-AHU-K-138		208	1		5.6	15	LP-1-2B	2,4	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-C-A-119A		208	1		0.28	15	LP-1-2A	2,4	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-C-A-121		208	1		0.28	15	LP-1-2A	2,4	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-C-A-253		208	1		0.28	15	PP-6	1,3	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-C-A-253A		208	1		0.28	15	PP-6	1,3	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-C-B-149C		208	1		0.28	15	LP-1-1	11,13	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-C-B-149G		208	1		0.28	15	LP-1-1	11,13	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-C-B-149H		208	1		0.28	15	LP-1-1	11,13	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-C-C-149B		208	1		0.29	15	LP-1-1	11,13	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-C-D-256		208	1		0.5	15	PP-6	1,3	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-C-D-258		208	1		0.5	15	PP-6	1,3	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-C-E-149A		208	1		0.5	15	LP-1-1	11,13	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-C-E-149D		208	1		0.5	15	LP-1-1	11,13	.75"C - 3#12, 1#12 G	FIELD PROVIDED	30A		
ISU-EXR-135		0											
ISU-EXR-135B1		0											
ISU-EXR-135B2		0											
ISU-EXR-B14		0											
P-A-1	7.5	208	3	17.5		40	LP-G-1	2,4,6	.75"C - 3#8, 1#10 G	FIELD PROVIDED	60A		
P-A-2	7.5	208	3	17.5		40	LP-G-1	1,3,5	.75"C - 3#8, 1#10 G	FIELD PROVIDED	60A		
RTU-A		208	3		33	45	PP-1-2	26,28,30	.75"C - 3#8, 1#10 G	FACTORY PROVIDED		PROVIDE	PROVIDE

* PROVIDE REQUIRED CONTROL INTERCONNECTION BETWEEN KITCHEN HOOD CONTROL PANEL AND: HOOD EXHAUST FAN CONTROLLER, KITCHEN AREA MAKE-UP AIR FAN CONTROLLER AND HOOD FIRE PROTECTION CONTROL PANEL. REFER TO FOOD SERVICE DRAWING NO. PES FS105.

LIGHTING SEQUENCE OF OPERATION (SOO)

SEQUENCE A - CLASSROOMS
- OCCUPANCY SENSOR(S) FOR AUTO ON/OFF OF ALL FIXTURES AFTER 15MIN. TIME DELAY.
- DAYLIGHT SENSOR(S) TO ACTUATE PRESET DIMMING LEVEL FOR 'DS' FIXTURES, BASED ON DAYLIGHT AVAILABLE IN SPACE, WITH DIM-TO-OFF FUNCTIONALITY.
- SCENE CONTROLLER FUNCTIONALITY:
  1. BUTTON 1: ON/OFF ALL FIXTURES
  2. BUTTON 2: DIM UP OF ALL FIXTURES
  3. BUTTON 3: DIM DOWN OF ALL FIXTURES

SEQUENCE B - GENERAL OFFICES
- OCCUPANCY SENSOR(S) FOR AUTO OFF OF ALL FIXTURES AFTER 15MIN. TIME DELAY.
- SCENE CONTROLLER FUNCTIONALITY:
  1. BUTTON 1: ON/OFF ALL FIXTURES
  2. BUTTON 2: DIM UP OF ALL FIXTURES
  3. BUTTON 3: DIM DOWN OF ALL FIXTURES

SEQUENCE C - BATHROOMS/TOILET ROOMS
- OCCUPANCY SENSOR(S) FOR AUTO ON/OFF OF ALL FIXTURES WITH 15MIN. TIME DELAY.
- KEY SWITCH FUNCTIONALITY:
  1. SWITCH 1: ON/OFF EM BATHROOM FIXTURES
  2. SWITCH 2: ON/OFF NON-EM BATHROOM FIXTURES

SEQUENCE D - VESTIBULES/CORRIDORS
- OCCUPANCY SENSOR(S) TO DIM FIXTURES TO 50% WHEN SPACE IS NOT OCCUPIED WITH 30MIN. TIME DELAY.
- KEY SWITCH FUNCTIONALITY:
  1. SWITCH 1: ON/OFF EM FIXTURES
  2. SWITCH 2: ON/OFF NON-EM FIXTURES

**REFER TO SECTION 260923 LIGHTING CONTROL DEVICES SPECIFICATION DOCUMENTS FOR SYSTEM REQUIREMENTS.

GENERAL NOTES:
LIGHTING CONTROL DEVICES ARE SHOWN ON LIGHTING PLANS FOR REFERENCE ONLY. PROVIDE POWER PACKS AND ROOM CONTROLLERS AS NEEDED TO SUPPORT SEQUENCING INDICATED FOR EACH SPACE.

THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF A COMPLETE LIGHTING CONTROL SYSTEM WITH ALL DEVICES SHOWN ON A REFLECTED CLINGS PLAN. SHOP DRAWINGS SHALL BE DRAWN TO SCALE AND SENT TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

NOTES:
- FIXTURES TAGGED 'NL' SHALL BE CONTINUOUS OPERATION NIGHT LIGHTING FIXTURES, AND SHALL BE CONNECTED TO LIGHTING POWER CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS.
- ALL EMERGENCY FIXTURES SHALL BE ENERGIZED TO 100% LIGHTING OUTPUT WITHIN 10 SECONDS OF LOSS OF POWER. ALL CONTROL SETTINGS SHALL BE OVERRIDDEN DURING A LOSS OF POWER EVENT.
- LIGHTING CONTROLS SHALL BE WIRELESS TYPE, USING WIRELESS, LITHIUM BATTERY POWERED WALL SWITCHES WITH CONFIGURATIONS AS REQUIRED BY SEQUENCES ABOVE.

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Consultant

PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

Project Title

STATE OF NEW YORK
JAMES R. BARRETT
073467
LICENSED PROFESSIONAL ENGINEER
EXPIRES 5/31/2026

#	DATE	DISCRIPTION

Drawn By:	NDH
Checked By:	JRB
Proj. #:	13-12-01-04-0-001-024
CSArch Proj. #:	208-2101.03
Issued for Bid:	11/03/23

Sheet Title
SCHEDULES

Sheet No.
PES
E902

CONSTRUCTION DOCUMENTS

Branch Panel: PP-1

Location: CORRIDOR 150 **Volts:** 120/208 Wye **A.I.C. Rating:** 22KA
Supply From: SWBD ES **Phases:** 3 **Mains Type:** 100 A MCB
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 100

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPT. MAKER SPACE 155	20	1	180 VA	180 VA					1	20	PROJECTOR RECEPT. MAKER SPACE...	2
3	PROJECTOR RECEPT. MUSIC 154	20	1			180 VA	180 VA			1	20	RECEPT. MUSIC 154	4
5	PROJECTOR RECEPT. CLASSROOM...	20	1					180 VA	180 VA	1	20	RECEPT. CLASSROOM 158	6
7	MAKER SPACE LIGHTING	20	1	960 VA	960 VA					1	20	MUSIC SPACE LIGHTING	8
9	EXISTING BRANCH CIRCUITS	20	1			0 VA	0 VA			1	20	EXISTING BRANCH CIRCUITS	10
11	EXISTING BRANCH CIRCUITS	20	1					0 VA	0 VA	1	20	EXISTING BRANCH CIRCUITS	12
13	SPARE	20	1	0 VA	0 VA					1	20	SPARE	14
15	SPARE	20	1			0 VA	0 VA			1	20	SPARE	16
17	SPARE	20	1					0 VA	0 VA	1	20	SPARE	18
19	SPARE	20	1	0 VA	0 VA					1	20	SPARE	20
21	SPACE	--	1			--	--			1	--	SPACE	22
23	SPACE	--	1					--	--	1	--	SPACE	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
			Total Load:	2280 VA		360 VA		360 VA					
			Total Amps:	19		3		3					

Notes: PROVIDE PANELBOARD WITH INTEGRAL (FACTORY INSTALLED) SURGE SUPPRESSION DEVICE

Branch Panel: PP-1-2

Location: ELECTRICAL 135D **Volts:** 120/208 Wye **A.I.C. Rating:** 22KA
Supply From: SWBD ES **Phases:** 3 **Mains Type:** 600 A MCB
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 600

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	ERV-I ROOFTOP	20	3	0 VA	0 VA					3	20	CU-I ROOFTOP	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	ERV-J ROOFTOP	20	3	0 VA	0 VA					3	20	CU-J ROOFTOP	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	CU-K ROOFTOP	20	3	0 VA	0 VA					3	20	ERV-K ROOFTOP	14
15	--	--	--			0 VA	0 VA			--	--	--	16
17	--	--	--					0 VA	0 VA	--	--	--	18
19	CU-L1 ROOFTOP	20	3	0 VA	0 VA					3	20	CU-L2 ROOTFTOP	20
21	--	--	--			0 VA	0 VA			--	--	--	22
23	--	--	--					0 VA	0 VA	--	--	--	24
25	ERV-L ROOFTOP	20	3	0 VA	0 VA					3	20	RTU-A ROOFTOP	26
27	--	--	--			0 VA	0 VA			--	--	--	28
29	--	--	--					0 VA	0 VA	--	--	--	30
31	RECEPT. ROOFTOP	20	1	360 VA	360 VA					1	20	RECEPT. ROOFTOP	32
33	SPARE	20	1			0 VA	0 VA			1	20	SPARE	34
35	SPARE	20	1					0 VA	0 VA	1	20	SPARE	36
37	SPARE	20	1	0 VA	0 VA					1	20	SPARE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
			Total Load:	720 VA		0 VA		0 VA					
			Total Amps:	6		0		0					

Notes: PROVIDE PANEL WITH (2)-3 POLE 225 AMP SUB-FEED CIRCUIT BREAKERS FOR CONNECTION OF PANELS "N" & "P".
PROVIDE PANELBOARD WITH INTEGRAL (FACTORY INSTALLED) SURGE SUPPRESSION DEVICE

Branch Panel: PP-1-4

Location: COAT ROOM 101A **Volts:** 120/208 Wye **A.I.C. Rating:** 22KA
Supply From: SWBD ES **Phases:** 3 **Mains Type:** 400 A MCB
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 400

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	ISU-AHU'S CLASSROOMS	20	2	4.5 VA	4.5 VA					2	20	ISU-AHU'S CLASSROOMS	2
3	--	--	--			4.5 VA	4.5 VA			--	--	--	4
5	ERV-G ROOFTOP	20	3					0 VA	0 VA	3	20	ERV-H ROOFTOP	6
7	--	--	--	0 VA	0 VA					--	--	--	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	CU-G ROOFTOP	20	3					0 VA	0 VA	3	20	CU-H ROOFTOP	12
13	--	--	--	0 VA	0 VA					--	--	--	14
15	--	--	--			0 VA	0 VA			--	--	--	16
17	RECEPT. ROOFTOP	20	1					360 VA	0 VA	1	20	SPARE	18
19	SPARE	20	1	0 VA	0 VA					1	20	SPARE	20
21	SPARE	20	1			0 VA	0 VA			1	20	SPARE	22
23	SPACE	--	1					--	--	1	--	SPACE	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
31	SPACE	--	1	--	--					1	--	SPACE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
			Total Load:	9 VA		9 VA		360 VA					
			Total Amps:	0.1		0.1		3					

Notes: PROVIDE PANEL WITH (2)-3 POLE 150 AMP SUB-FEED CIRCUIT BREAKERS FOR CONNECTION OF PANELS "9" & "9A".
PROVIDE PANELBOARD WITH INTEGRAL (FACTORY INSTALLED) SURGE SUPPRESSION DEVICE

Branch Panel: PP-A (1)

Location: ATTIC 303 **Volts:** 120/208 Wye **A.I.C. Rating:** 22KA
Supply From: SWBD ES **Phases:** 3 **Mains Type:** 400 A MCB
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 400

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	ISU-AHU'S ATTIC	20	2	341.1 VA	0 VA					2	20	ISU-AHU'S ATTIC	2
3	--	--	--			341.1 VA	0 VA			--	--	--	4
5	ISU-AHU'S ATTIC	20	2					0 VA	180 VA	1	20	RECEPT. ROOFTOP	6
7	--	--	--	0 VA	180 VA					1	20	RECEPT. ROOFTOP	8
9	CU-A1 ROOFTOP	20	3			0 VA	0 VA			3	20	CU-A2 ROOFTOP	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	--	--	--	0 VA	0 VA					--	--	--	14
15	CU-B ROOFTOP	20	3			0 VA	0 VA			3	20	CU-M ROOFTOP	16
17	--	--	--					0 VA	0 VA	--	--	--	18
19	--	--	--	0 VA	0 VA					--	--	--	20
21	ERV-M ROOFTOP	20	3			0 VA	0 VA			1	20	ERV-B	22
23	--	--	--					0 VA	0 VA	1	20	ERV-C	24
25	--	--	--	0 VA	360 VA					1	20	RECEPT. ATTIC	26
27	ERV-A	20	1			0 VA	0 VA			3	20	ERV-N STAGE	28
29	ERV-D	20	1					0 VA	0 VA	--	--	--	30
31	SPARE	20	1	0 VA	0 VA					--	--	--	32
33	SPARE	20	1			0 VA	0 VA			1	20	FAN F-B	34
35	SPARE	20	1					0 VA	0 VA	1	20	EXISTING BRANCH CIRCUIT	36
37	EXISTING BRANCH CIRCUIT	20	1	0 VA	0 VA					1	20	EXISTING BRANCH CIRCUIT	38
39	EXISTING BRANCH CIRCUIT	20	1			0 VA	0 VA			1	20	EXISTING BRANCH CIRCUIT	40
41	EXISTING BRANCH CIRCUIT	20	1					0 VA	0 VA	1	20	EXISTING BRANCH CIRCUIT	42
			Total Load:	881 VA		341 VA		180 VA					
			Total Amps:	7.5		3		1.5					

Notes: PROVIDE PANELBOARD WITH INTEGRAL (FACTORY INSTALLED) SURGE SUPPRESSION DEVICE

Branch Panel: PP-A (2)

Location: ATTIC 303 **Volts:** 120/208 Wye **A.I.C. Rating:** 22KA
Supply From: SWBD ES **Phases:** 3 **Mains Type:** 400 A MLO
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 400

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
43	SPARE	20	1	0 VA	0 VA					1	20	SPARE	44
45	SPARE	20	1			0 VA	0 VA			1	20	SPARE	46
47	SPARE	20	1					0 VA	0 VA	1	20	SPARE	48
49	SPACE	--	1	--	--					1	--	SPACE	50
51	SPACE	--	1			--	--			1	--	SPACE	52
53	SPACE	--	1					--	--	1	--	SPACE	54
55	SPACE	--	1	--	--					1	--	SPACE	56
57	SPACE	--	1			--	--			1	--	SPACE	58
59	SPACE	--	1					--	--	1	--	SPACE	60
61	SPACE	--	1	--	--					1	--	SPACE	62
63	SPACE	--	1			--	--			1	--	SPACE	64
65	SPACE	--	1					--	--	1	--	SPACE	66
67	SPACE	--	1	--	--					1	--	SPACE	68
69	SPACE	--	1			--	--			1	--	SPACE	70
71	SPACE	--	1					--	--	1	--	SPACE	72
73	SPACE	--	1	--	--					1	--	SPACE	74
75	SPACE	--	1			--	--			1	--	SPACE	76
77	SPACE	--	1					--	--	1	--	SPACE	78
79	SPACE	--	1	--	--					1	--	SPACE	80
81	SPACE	--	1			--	--			1	--	SPACE	82
83	SPACE	--	1					--	--	1	--	SPACE	84
			Total Load:	0 VA		0 VA		0 VA					
			Total Amps:	0		0		0					

Notes: PROVIDE PANELBOARD WITH INTEGRAL (FACTORY INSTALLED) SURGE SUPPRESSION DEVICE

Branch Panel: LP-G-1

Location: DISTRICT RECORD B20 **Volts:** 120/208 Wye **A.I.C. Rating:** 22KA
Supply From: SWBD ES **Phases:** 3 **Mains Type:** 225 A MCB
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 225

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	HVAC PUMP MECH. RM.	30	3	2100 VA	2100 VA					3	30	HVAC PUMP MECH. RM.	2
3	--	--	--			2100 VA	2100 VA			--	--	--	4
5	--	--	--					2100 VA	2100 VA	--	--	--	6
7	GMU-A MECHANICAL ROOM	20	1	0 VA	1536 VA					1	20	INDOOR RECESS LIGHTING	8
9	DIST. RECORD/STORAGE LIGHTING	20	1			888 VA	0 VA			1	20	Other INDOOR RECESS B19	10
11	Receptacle INDOOR RECESS B19	20	1					180 VA	1080 VA	1	20	Receptacle PASSAGE B20B	12
13	SPARE	20	1	0 VA	0 VA					1	20	SPARE	14
15	SPARE	20	1			0 VA	0 VA			1	20	SPARE	16
17	SPARE	20	1					0 VA	0 VA	1	20	SPARE	18
19	SPACE	--	1	--	--					1	--	SPACE	20
21	SPACE	--	1			--	--			1	--	SPACE	22
23	SPACE	--	1					--	--	1	--	SPACE	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
31	SPACE	--	1	--	--					1	--	SPACE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
			Total Load:	5736 VA		5088 VA		5460 VA					
			Total Amps:	48.3		42.4		46					

Notes:

ALTERNATE 3A

Branch Panel: KP-1 (1)

Location: KITCHEN STORAGE 156D **Volts:** 120/208 Wye **A.I.C. Rating:** 22KA
Supply From: SWBD ES **Phases:** 3 **Mains Type:** 400 A MCB
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 400

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPT. KITCHEN STORAGE 156D	20	1	180 VA	1200 VA					1	20	FREEZER, REACH-IN RECEPT.	2
3	EXHAUST HOOD	30	1			2400 VA	8160 VA			1	20	REFRIGERATOR, REACH-IN RECEPT.	4
5 *	STEAMER	40	2					3025 VA	3600 VA	1	40	SERVING COUNTER RECEPT.	6
7	--	--	--	3025 VA	1130 VA					1	20	MILK COOLER/HAND SINK RECEPT.	8
9	FIRE SUPPRESSION SYSTEM	20	1			1800 VA	2400 VA			1	30	WALK-IN COOLER/FREEZER	10
11	SERVING COUNTER RECEPT.	30	1					2400 VA	675 VA	2	20	WARMING CABINET, PASS-THRU	12
13	SERVING COUNTERS RECEPT.	30	1	2400 VA	675 VA					--	--	--	14
15	REFRIGERATOR, PASS-THRU RECEPT.	20	1			780 VA	1200 VA			1	20	POWER AIR DOOR	16
17	LIGHTING KITCHEN STORAGE 156D	20	1					672 VA	578.3 VA	3	20	CONDESNING UNIT, FREEZER	18
19	LIGHTING KITCHEN 152	20	1	864 VA	578.3 VA					--	--	--	20
21	WALK-IN COOLER REFRIGERATION	20	1			500 VA	578.3 VA			--	--	--	22
23	WALK-IN FREEZER REFRIGERATION	20	2					947.5 VA	1200 VA	1	20	DRAIN LINE HEATER	24
25	--	--	--	947.5 VA	3733.3 VA					3	20	CONVECTION OVEN	* 26
27	CONDENSING UNIT, FREEZER	20	3			1166.7 VA	3733.3 VA			--	--	--	28
29	--	--	--					1166.7 VA	3733.3 VA	--	--	--	30
31	--	--	--	1166.7 VA	2081.7 VA					3	30	RANGE	* 32
33 *	TILT SKILLET	60	3			5175 VA	2081.7 VA			--	--	--	34
35	--	--	--					5175 VA	2081.7 VA	--	--	--	36
37	--	--	--	5175 VA	500 VA					1	20	SERVING COUNTER, FROST TOP...	38
39	SERVING COUNTER, HOT FOOD...	30	2			1825 VA	372 VA			1	20	CUH-B-152	40
41	--	--	--					1825 VA	180 VA	1	20	FAN F-C	* 42
			Total Load:	27257 VA		32172 VA		27260 VA					
			Total Amps:	227.1		268.1		227.2					

Notes: * PROVIDE SHUNT TRIP CIRCUIT BREAKER WITH CONTROL COIL CONNECTION TO KITCHEN HOOD FIRE SUPPRESSION SYSTEM.
PROVIDE PANELBOARD WITH INTEGRAL (FACTORY INSTALLED) SURGE SUPPRESSION DEVICE

Branch Panel: KP-1 (2)

Location: KITCHEN STORAGE 156D **Volts:** 120/208 Wye **A.I.C. Rating:** 22KA
Supply From: SWBD ES **Phases:** 3 **Mains Type:** 400 A MLO
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 400

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
43	Receptacle KITCHEN 152	20	1	3600 VA	0 VA					1	20	SPARE	44
45	SPARE	20	1			0 VA	0 VA			1	20	SPARE	46
47	SPARE	20	1					0 VA	0 VA	1	20	SPARE	48
49	SPARE	20	1	0 VA	--					1	--	SPACE	50
51	SPACE	--	1			--	--			1	--	SPACE	52
53	SPACE	--	1					--	--	1	--	SPACE	54
55	SPACE	--	1	--	--					1	--	SPACE	56
57	SPACE	--	1			--	--			1	--	SPACE	58
59	SPACE	--	1					--	--	1	--	SPACE	60
61	SPACE	--	1	--	--					1	--	SPACE	62
63	SPACE	--	1			--	--			1	--	SPACE	64
65	SPACE	--	1					--	--	1	--	SPACE	66
67	SPACE	--	1	--	--					1	--	SPACE	68
69	SPACE	--	1			--	--			1	--	SPACE	70
71	SPACE	--	1					--	--	1	--	SPACE	72
73	SPACE	--	1	--	--					1	--	SPACE	74
75	SPACE	--	1			--	--			1	--	SPACE	76
77	SPACE	--	1					--	--	1	--	SPACE	78
79	SPACE	--	1	--	--					1	--	SPACE	80
81	SPACE	--	1			--	--			1	--	SPACE	82
83	SPACE	--	1					--	--	1	--	SPACE	84
			Total Load:	3600 VA		0 VA		0 VA					
			Total Amps:	30		0		0					

Notes:

ALTERNATE 3C

Branch Panel: LP-1-1

Location: SECURITY 149A **Volts:** 120/208 Wye **A.I.C. Rating:** 22KA
Supply From: SWBD ES **Phases:** 3 **Mains Type:** 225 A MCB
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 225

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	PROJECTOR CLASSROOM 151	20	1	180 VA	180 VA					1	20	RECEPT. CLASSROOM 151	2
3	RECEPT. NURSE 149D	20	1			1260 VA	180 VA			1	20	REFRIGERATOR RECEPT. NURSE 149D	4
5	RECEPT. ASST. PRINCIPAL 149C	20	1					900 VA	1080 VA	1	20	RECEPT. MAIN OFFICE 149	6
7	PRINTER RECEPT. MAIN OFFICE 149	20	1	180 VA	180 VA					1	20	2-WAY CHARGING STATION MAIN...	8
9	RECEPT. MAIN OFFICE 149	20	1			1080 VA	720 VA			1	20	RECEPT. SECURITY 149A	10
11	ISU-AHU'S MAIN OFFICE	20	2					2261 VA	0 VA	1	20	DISPLAY CABINET VESTIBULE 142A	12
13	--	--	--	0 VA	0 VA					1	20	STAFF SIGN-IN VESTIBULE 142A	14
15	RECEPT. VESTIBULE 142A	20	1			360 VA	1728 VA			1	20	CLASSROOM LIGHTING	16
17	NURSE/ASST PRINCIPAL LIGHTING	20	1					1248 VA	1248 VA	1	20	MAIN OFFICE/PRINCIPAL LIGHTING	18
19	SECURITY/ENTRANCE LIGHTING	20	1	843 VA	372 VA					1	20	CUH-B-142A SECURE VESTIBULE	20
21	SECURITY WINDOW FIRE SHUTTER	20	1			0 VA	0 VA			1	20	SPARE	22
23	SPARE	20	1					0 VA	0 VA	1	20	SPARE	24
25	SPARE	20	1	0 VA	0 VA					1	20	SPARE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
31	SPACE	--	1	--	--					1	--	SPACE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
			Total Load:	1935 VA		5328 VA		6737 VA					
			Total Amps:	16.1		48.8		60.5					

Notes: PROVIDE PANELBOARD WITH INTEGRAL (FACTORY INSTALLED) SURGE SUPPRESSION DEVICE

Branch Panel: LP-1-2A

Location: PDL 121 **Volts:** 120/208 Wye **A.I.C. Rating:** 22KA
Supply From: PANEL LP-2B **Phases:** 3 **Mains Type:** 100 A MCB
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 100

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	ISU-AHU'S CLASSROOMS	20	2	0 VA	79 VA					2	20	ISU-AHU'S LIBRARY	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	PROJECTOR CLASSROOM 117	20	1					180 VA	540 VA	1	20	RECEPT. CLASSROOM 117	6
7	RECEPT. LIBRARY 119	20	1	540 VA	180 VA					1	20	PROJECTOR LIBRARY 119	8
9	RECEPT. LIBRARY 119	20	1			720 VA	540 VA			1	20	RECEPT. LIBRARY 119	10
11	RECEPT. LIBRARY OFFICE 119A	20	1					720 VA	1659 VA	1	20	LIGHTING LIBRARY 119	12
13	SPARE	20	1	0 VA	0 VA					1	20	SPARE	14
15	SPARE	20	1			0 VA	0 VA			1	20	SPARE	16
17	SPARE	20	1					0 VA	0 VA	1	20	SPARE	18
19	SPACE	--	1	--	--					1	--	SPACE	20
21	SPACE	--	1			--	--			1	--	SPACE	22
23	SPACE	--	1					--	--	1	--	SPACE	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
31	SPACE	--	1	--	--					1	--	SPACE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
			Total Load:	799 VA		1260 VA		3099 VA					
			Total Amps:	6.7		11.1		26.4					

Notes: PROVIDE PANELBOARD WITH INTEGRAL (FACTORY INSTALLED) SURGE SUPPRESSION DEVICE

Branch Panel: LP-1-2B

Location: STAFF 135B **Volts:** 120/208 Wye **A.I.C. Rating:** 22KA
Supply From: PANEL P **Phases:** 3 **Mains Type:** 225A MLO
Mounting: SURFACE **Wires:** 4 **Mains Rating:** 225

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	ISU-AHU'S CLASSROOMS	20	2	0 VA	4.5 VA					2	20	ISU-AHU'S CLASSROOMS	2
3	--	--	--			0 VA	4.5 VA			--	--	--	4
5	PROJECTOR RECEPT. CONF. RM. 135	20	1					180 VA	180 VA	1	20	PROJECTOR RECEPT. CONF. RM. 135	6
7	FLOOR RECEPT. CONF. RM. 135	20	1	720 VA	720 VA					1	20	FLOOR RECEPT. CONF. RM. 135	8
9	FLOOR RECEPT. CONF. RM. 135	20	1			720 VA	720 VA			1	20	FLOOR RECEPT. CONF. RM. 135	10
11	FLOOR RECEPT. CONF. RM. 135	20	1					720 VA	180 VA	1	20	PROJECTOR RECEPT. CONF. RM. 135	12
13	RECEPT. STAFF 135B	20	1	1440 VA	1192 VA					1	20	LIGHTING STAFF 135B	14
15	REFRIGERATOR RECEPT. STAFF 135B	20	1			180 VA	1728 VA			1	20	LIGHTING CONF. RM. 135	16
17	ISU-AHU'S CLASSROOM	20	2					341.1 VA	180 VA	1	20	PROJECTOR RECEPT. CONF. RM. 135	18
19	--	--	--	341.1 VA	0 VA					1	20	SPARE	20
21	PANEL LP-1-2A	100	3			0 VA	0 VA			1	20	SPARE	22
23	--	--	--					0 VA	0 VA	1	20	SPARE	24
25	--	--	--	0 VA	0 VA					1	20	SPARE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
31	SPACE	--	1	--	--					1	--	SPACE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
			Total Load:	4418 VA		3353 VA		1781 VA					
			Total Amps:	38.8		30		14.8					

Notes: PROVIDE PANELBOARD WITH INTEGRAL (FACTORY INSTALLED) SURGE SUPPRESSION DEVICE

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Consultant

Project Title
PAWLING CENTRAL SCHOOL DISTRICT
PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

STATE OF NEW YORK · JAMES R. BARNETT · 079467 · LICENSED PROFESSIONAL ENGINEER
EXPIRES 5/31/2026

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Sheet Title
PANEL SCHEDULES

Sheet No.
PES
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CONSTRUCTION DOCUMENTS

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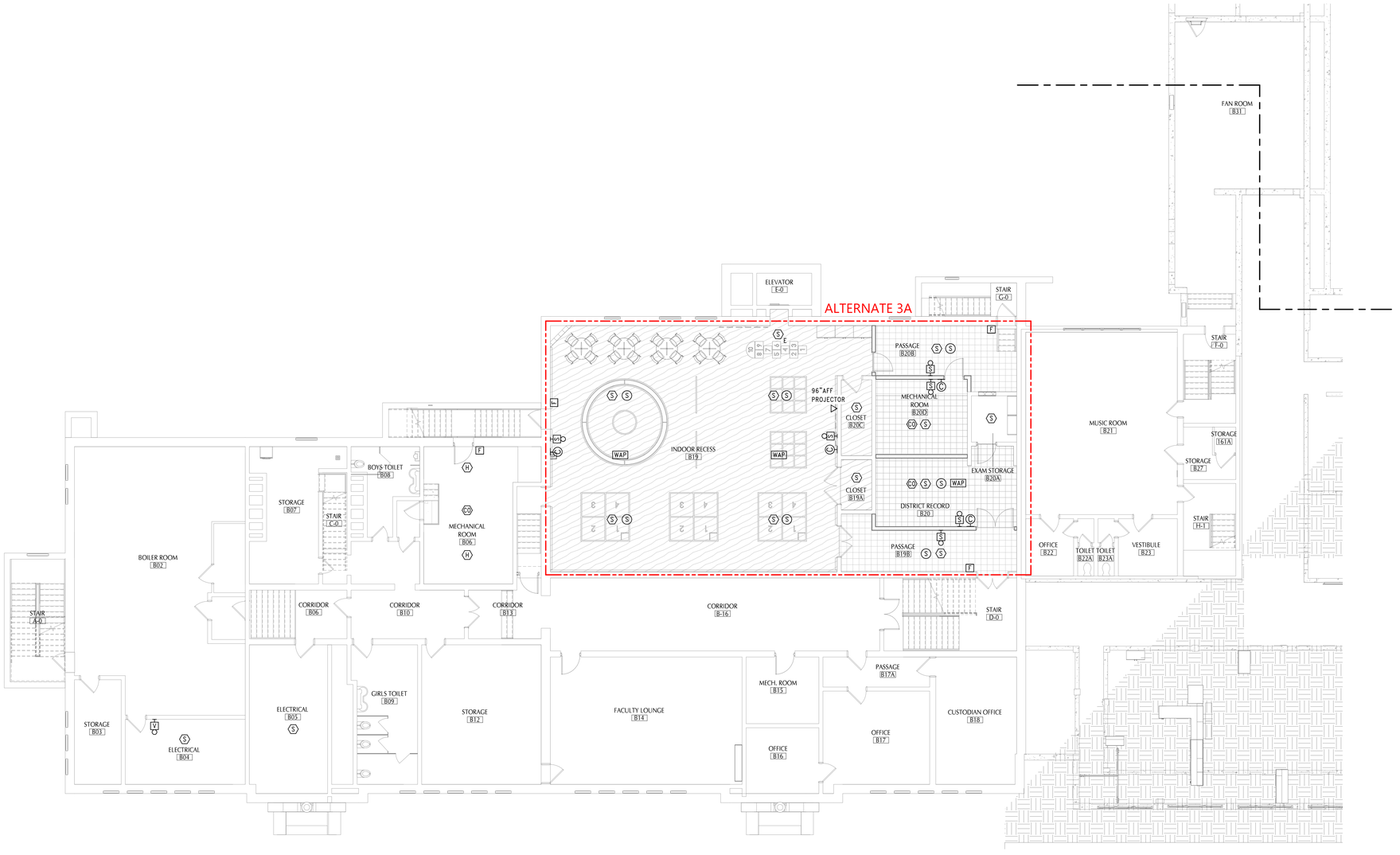
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SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

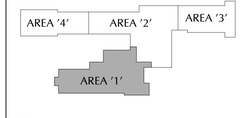
B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.

KEY NOTES



1 GROUND FLOOR SYSTEMS PLAN - AREA '1'
ES101 1/8" = 1'-0"

KEY PLAN



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PAWLING ELEMENTARY SCHOOL
2020 CAPITAL PROJECT - PHASE 3

Project Title

STATE OF NEW YORK
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073467
LICENSED PROFESSIONAL ENGINEER
EXPIRES 5/31/2026

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Checked By:	JRB
Proj. #:	13-12-01-04-0-001-024
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Sheet Title
GROUND FLOOR SYSTEMS PLAN - AREA '1'

Sheet No.
PES
ES101

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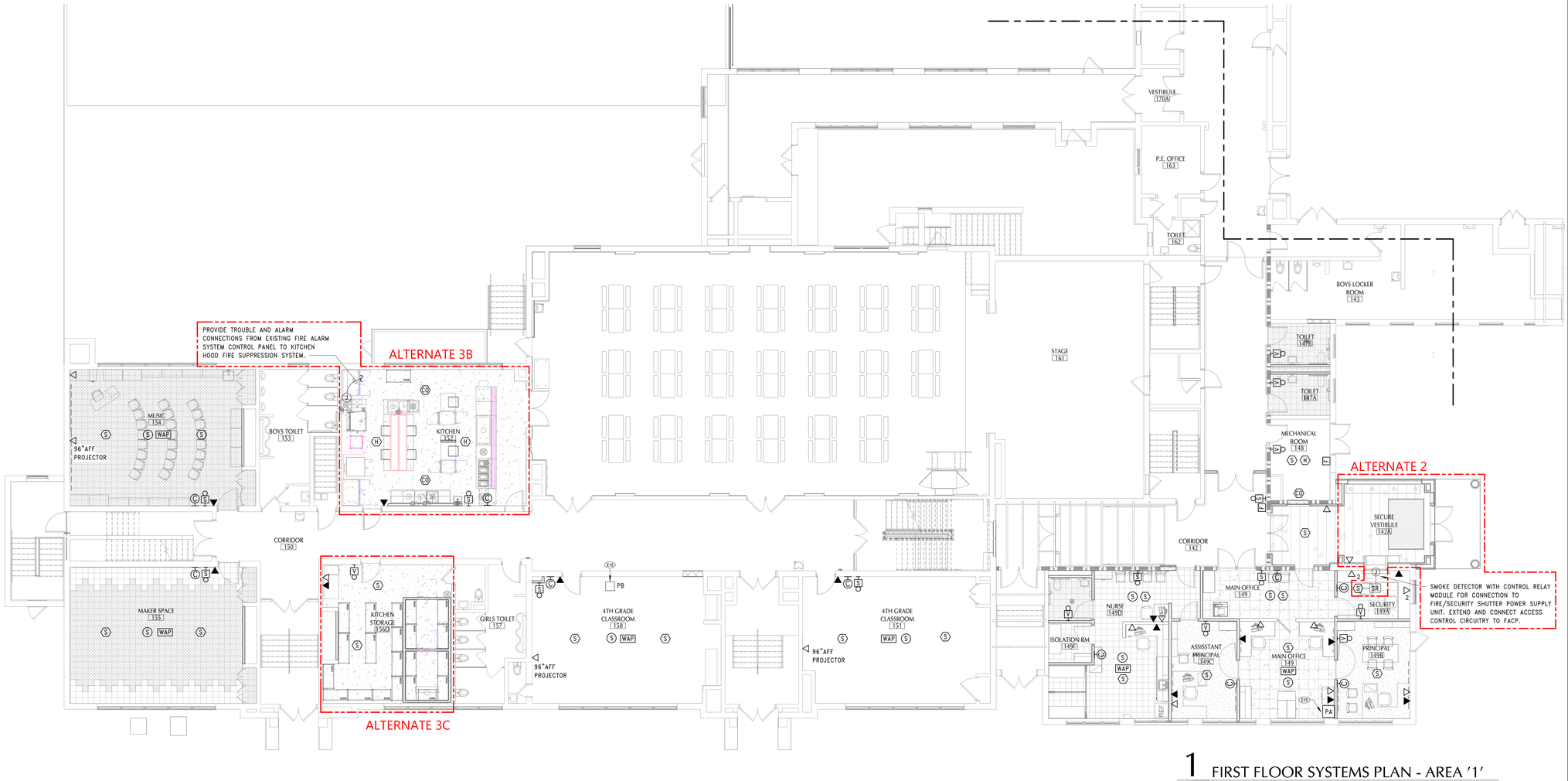
SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.

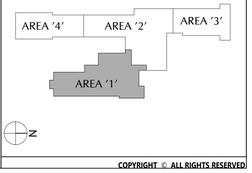
KEY NOTES

E15	PROVIDE RELOCATION OF EXISTING PUBLIC ADDRESS CONSOLE AS INDICATED. PROVIDE A NEMA TYPE 1 PULLBOX LOCATED ABOVE THE CEILING AT THE EXISTING (PREVIOUS) PA SYSTEM CONSOLE LOCATION TO ACCOMMODATE THE EXTENSION OF ALL ACTIVE AUDIO AND CONTROL SYSTEM CABLING TO THE CONSOLE RELOCATION IN MAIN OFFICE 149. PROVIDE RECONNECTION OF EXTENDED CABLING AND POWER WIRING TO RELOCATED CONSOLE. PROVIDE COMPLETE ACCEPTANCE TESTING OF RELOCATED PA SYSTEM CONSOLE TO ASSURE THAT PROPER OPERATION HAS BEEN RESTORED.



1 FIRST FLOOR SYSTEMS PLAN - AREA '1'
ES111 1/8" = 1'-0"

KEY PLAN



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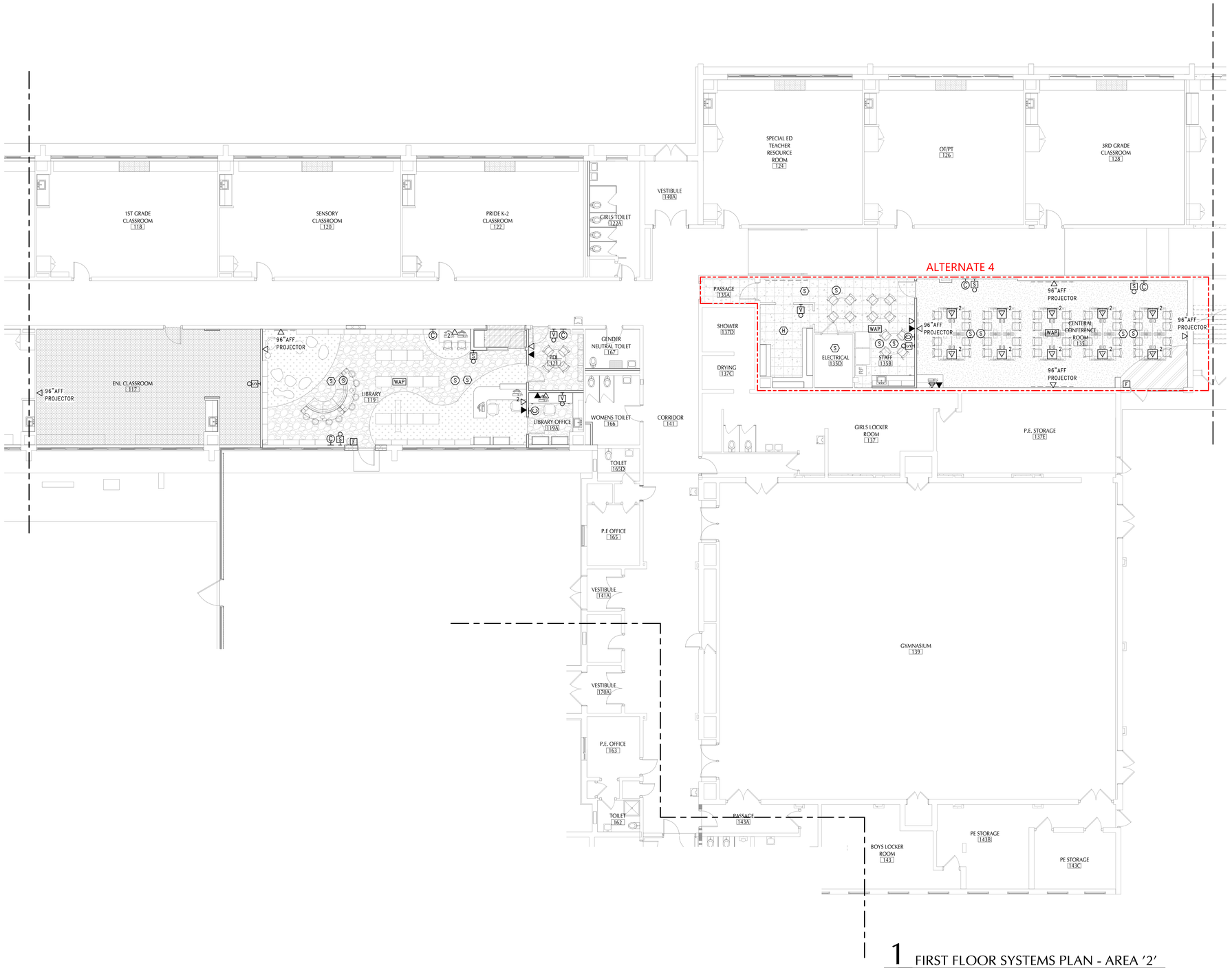
FIRST FLOOR SYSTEMS PLAN - AREA '1'

Sheet No.

PES
ES111

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1 FIRST FLOOR SYSTEMS PLAN - AREA '2'
ES112 1/8" = 1'-0"

SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.

KEY NOTES

KEY PLAN



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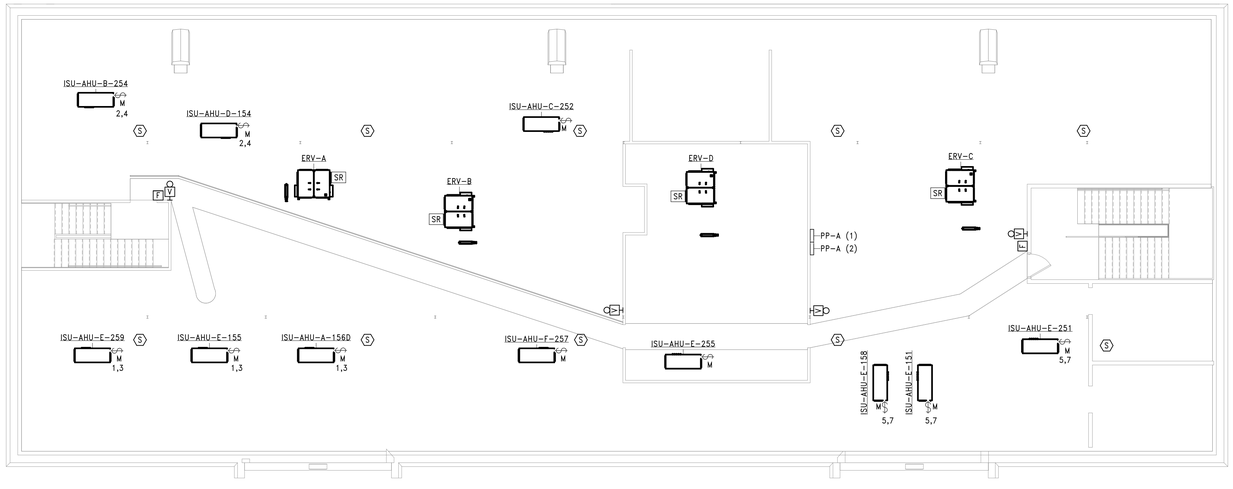
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Sheet Title
FIRST FLOOR SYSTEMS PLAN - AREA '2'

Sheet No.
PES
ES112

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1 ATTIC SYSTEMS PLAN
ES131 1/8" = 1'-0"

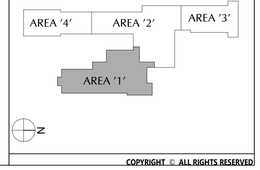
SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROPERLY FIRE-STOPPED.

KEY NOTES

KEY PLAN



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Sheet Title
ATTIC
SYSTEMS PLAN

Sheet No.
PES
ES131

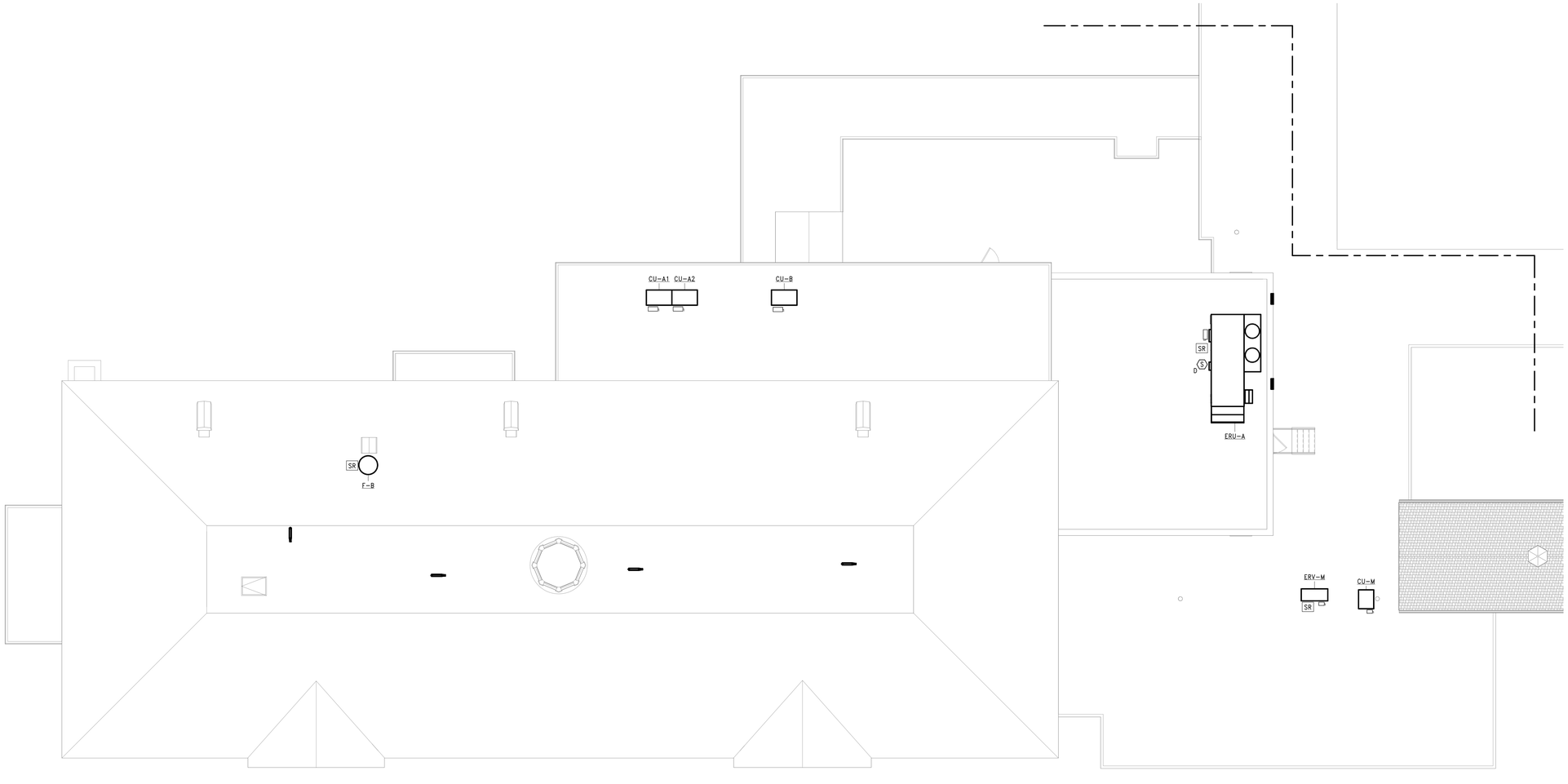
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SHEET NOTES

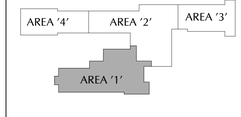
A. REFER TO EQUIPMENT CONNECTION SCHEDULE ON SHEET NO. E902 FOR BRANCH CIRCUIT DESIGNATION AND RATING.

KEY NOTES



1 ROOF SYSTEMS PLAN - AREA '1'
ES141 1/8" = 1'-0"

KEY PLAN



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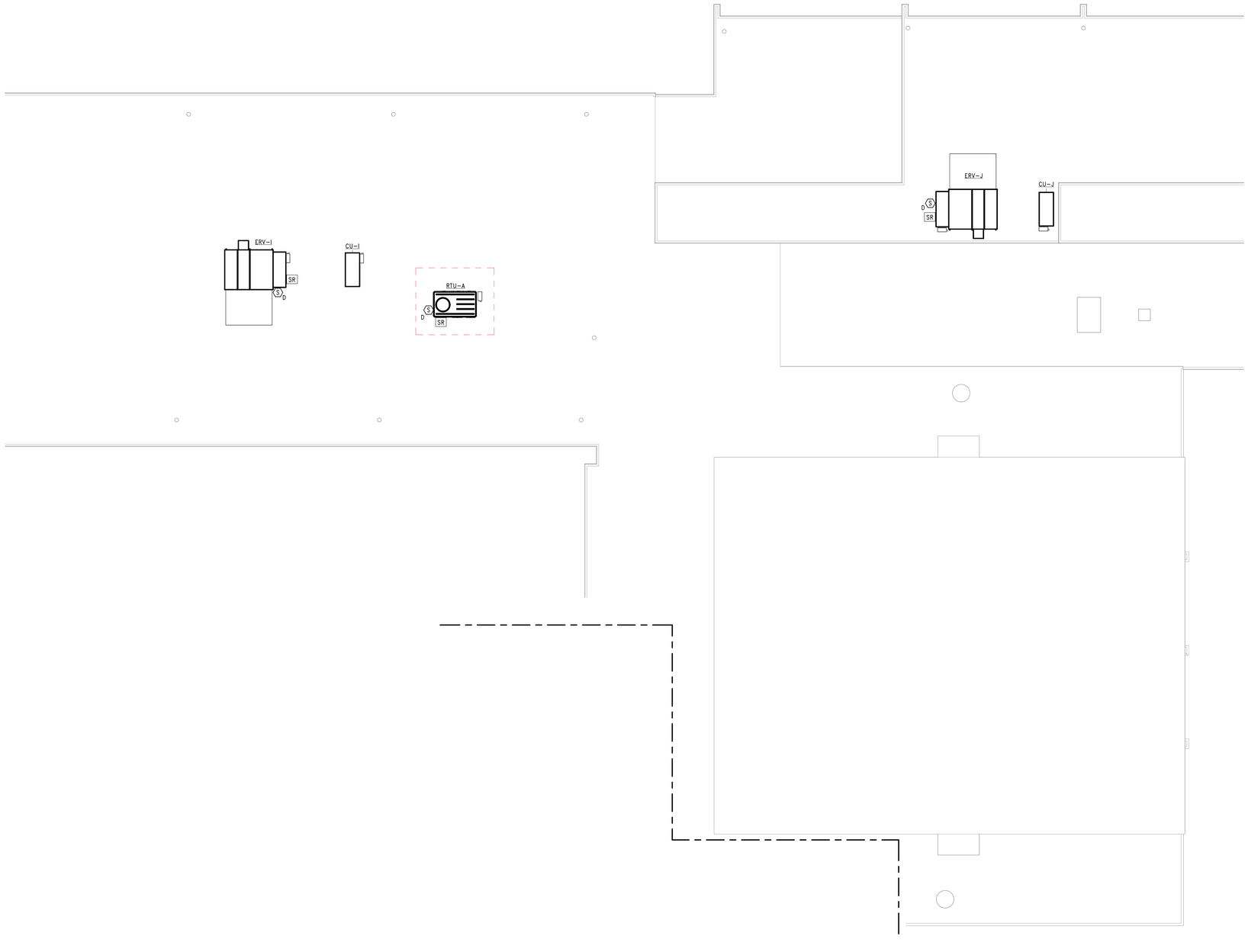
ROOF SYSTEMS PLAN - AREA '1'

Sheet No.

PES
ES141

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1 ROOF SYSTEMS PLAN - AREA '2'
ES142 1/8" = 1'-0"

SHEET NOTES

A. REFER TO EQUIPMENT CONNECTION SCHEDULE ON SHEET NO. E902 FOR BRANCH CIRCUIT DESIGNATION AND RATING.

KEY NOTES

KEY PLAN



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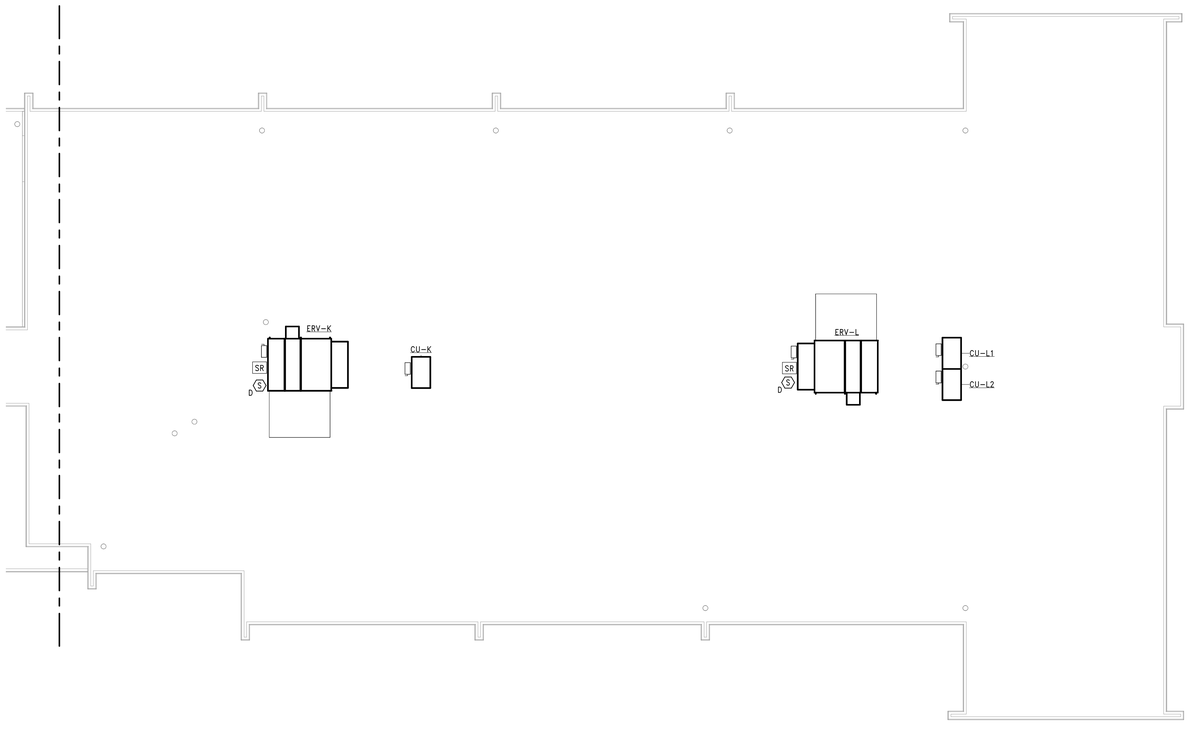
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Sheet Title
ROOF SYSTEMS PLAN - AREA '2'

Sheet No.
PES
ES142

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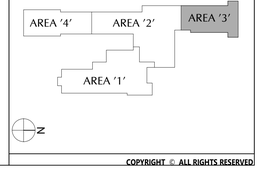
1 ROOF SYSTEMS PLAN - AREA '3'
ES143 1/8" = 1'-0"

SHEET NOTES

A. REFER TO EQUIPMENT CONNECTION SCHEDULE ON SHEET NO. E902 FOR BRANCH CIRCUIT DESIGNATION AND RATING.

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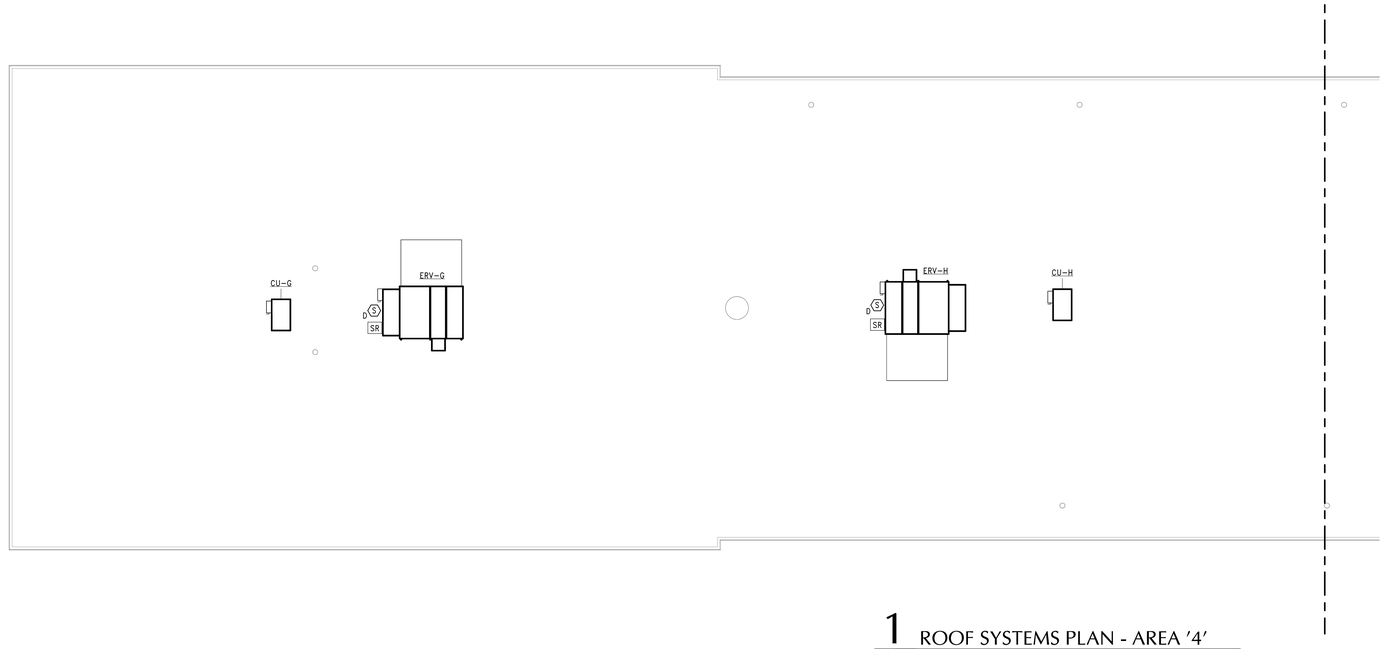
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Sheet Title
ROOF SYSTEMS PLAN - AREA '3'

Sheet No.
PES
ES143

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1 ROOF SYSTEMS PLAN - AREA '4'
ES144 1/8" = 1'-0"

SHEET NOTES

A. REFER TO EQUIPMENT CONNECTION SCHEDULE ON SHEET NO. E902 FOR BRANCH CIRCUIT DESIGNATION AND RATING.

KEY NOTES

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Sheet Title
ROOF SYSTEMS PLAN - AREA '4'

Sheet No.
PES ES144

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