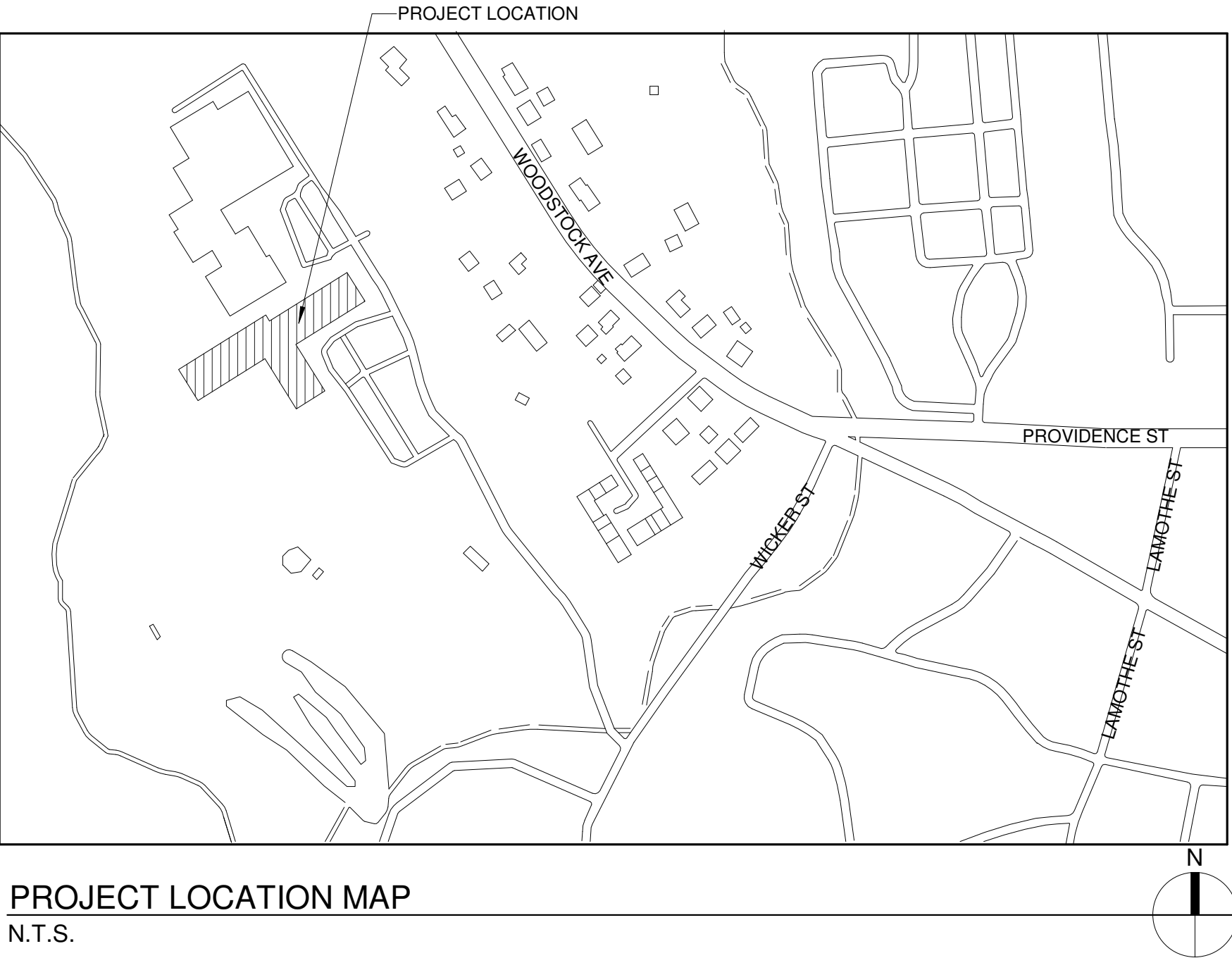


PUTNAM ELEMENTARY SCHOOL

33 WICKER ST, PUTNAM, CT 06260

APPLICABLE CODES
<u>2022 CONNECTICUT STATE BUILDING CODE</u> INTERNATIONAL CODE COUNCIL, INC. • 2021 INTERNATIONAL BUILDING CODE • 2017 A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES • 2021 INTERNATIONAL EXISTING BUILDING CODE • 2021 INTERNATIONAL ENERGY CONSERVATION CODE NATIONAL FIRE PROTECTION ASSOCIATION, INC. • 2020 NFPA 70 NATIONAL ELECTRICAL CODE ALL AS AMENDED AND ADOPTED BY THE OCTOBER 1, 2022 CONNECTICUT AMENDMENTS CONSTITUTE THE 2022 CONNECTICUT STATE BUILDING CODE. <u>2022 CONNECTICUT STATE FIRE SAFETY CODE</u> INTERNATIONAL CODE COUNCIL, INC. • 2021 INTERNATIONAL FIRE CODE NATIONAL FIRE PROTECTION ASSOCIATION, INC. • 2021 NFPA 101 LIFE SAFETY CODE ALL AS AMENDED AND ADOPTED BY THE OCTOBER 1, 2022 CONNECTICUT AMENDMENTS CONSTITUTE THE 2022 CONNECTICUT STATE FIRE SAFETY CODE. <u>2022 CONNECTICUT STATE FIRE PREVENTION CODE</u> NATIONAL FIRE PROTECTION ASSOCIATION, INC. • 2021 NFPA 1 FIRE CODE (INCLUDING ANNEXES A, C, AND F) AS AMENDED AND ADOPTED BY THE OCTOBER 1, 2022 CONNECTICUT AMENDMENTS CONSTITUTE THE 2022 CONNECTICUT STATE FIRE PREVENTION CODE.

SCOPE OF WORK			
SCOPE OF WORK INCLUDES MINI SPLIT AIR CONDITIONER ADDITION IN CLASSROOM AND GYMNASIUM PUTNAM ELEMENTARY SCHOOL (90000 SQ.FT). SCOPE OF WORK INCLUDES HVAC AND ELECTRICAL WORK.			
LIST OF SHEETS			
SHEET NO.	SHEET NAME	PROJECT ISSUE DATE	CURRENT REVISION
G-000	COVER SHEET	07/10/2024	
M-001	MECHANICAL NOTES, SPECIFICATION, SCHEDULES AND LEGENDS	07/10/2024	
M-002	MECHANICAL SCHEDULES	07/10/2024	
M-101	FIRST FLOOR OVERALL MECHANICAL PLAN	07/10/2024	
M-102	FIRST FLOOR MECHANICAL PLAN-PART B	07/10/2024	
M-103	FIRST FLOOR MECHANICAL PLAN-PART C	07/10/2024	
M-104	FIRST FLOOR MECHANICAL PLAN-PART D	07/10/2024	
M-105	SECOND FLOOR MECHANICAL PLAN-PART B	07/10/2024	
M-106	SECOND FLOOR MECHANICAL PLAN-PART C	07/10/2024	
M-300	MECHANICAL DETAILS	07/10/2024	
E-001	ELECTRICAL NOTES & SPECIFICATIONS	07/10/2024	
E-002	ELECTRICAL LEGENDS AND SYMBOL	07/10/2024	
E-003	ELECTRICAL POWER RISER DIAGRAM, DETAILS AND EQUIPMENT SCHEDULES	07/10/2024	
E-004	ELECTRICAL PANEL SCHEDULE	07/10/2024	
E-101	FIRST FLOOR OVERALL ELECTRICAL PLAN	07/10/2024	
E-102	FIRST FLOOR ELECTRICAL PLAN-PART B	07/10/2024	
E-103	FIRST FLOOR ELECTRICAL PLAN-PART C	07/10/2024	
E-104	FIRST FLOOR ELECTRICAL PLAN-PART D	07/10/2024	
E-105	SECOND FLOOR ELECTRICAL PLAN-PART B	07/10/2024	
E-106	SECOND FLOOR ELECTRICAL PLAN-PART C	07/10/2024	
E-107	BASEMENT BOILER ROOM ELECTRICAL PLAN	07/10/2024	



PROJECT LOCATION MAP
N.T.S.

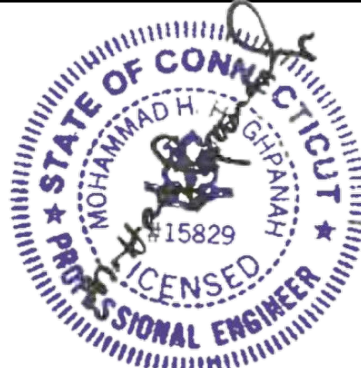
LIST OF PROFESSIONALS
MEP RUSSELL AND DAWSON INC. 1111 MAIN STREET, EAST HARTFORD CT 06108 PHONE: (860) 289-1100 FAX: (860) 289-3272 www.rdaep.com



RUSSELL AND DAWSON INC.
ARCHITECTURE & ENGINEERING

1111 Main Street, East Hartford CT 06108
TEL: (860) 289-1100 FAX: (860) 289-3272 E-MAIL: info@rdaep.com

1111 MAIN STREET, EAST HARTFORD CT 06108 (860) 289-1100



FILE NO. 24103.01
DATE: 07/10/2024
REV :

GENERAL MECHANICAL NOTES	
<p><u>GENERAL</u></p> <p>1. WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.</p> <p>2. IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO PROVIDE FOR FINISHED WORK, TESTED AND READY FOR OPERATION.</p> <p>3. ITEMS AND SERVICES NOT SHOWN ON DRAWINGS OR SPECIFICATION BUT REQUIRED TO RENDER THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST.</p> <p>4. WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS, PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL WORK AS SPECIFIED AND AS REQUIRED BY JOB CONDITIONS, WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.</p> <p>5. DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUB-CONTRACTOR DOCUMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND ALL SUBCONTRACTORS TO INCLUDE THE PROVISIONS AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED. THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES AND EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.</p> <p>6. PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT GENERAL CONDITIONS AND WITH THE PROVISIONS OF ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND LAWS.</p> <p>7. WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIAL, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, FEES, LICENSES, AND ADMINISTRATIVE TASKS NECESSARY TO COMPLETE AND MAKE OPERABLE WORK SHOWN ON THE DRAWINGS, SPECIFIED HEREIN AND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.</p> <p>8. STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE</p> <p>9. COORDINATE ALL HVAC WORK AND EQUIPMENT WITH STRUCTURAL STEEL, FIRE PROTECTION PIPING, PLUMBING PIPING, LIGHT FIXTURES, ELECTRICAL EQUIPMENT AND OWNER'S EQUIPMENT.</p> <p>10. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING GRILLES, REGISTERS AND DIFFUSERS.</p> <p>11. PROVIDE VOLUME DAMPERS IN EACH BRANCH DUCTWORK SERVING REGISTERS, GRILLES AND DIFFUSERS WHETHER INDICATED OR NOT.</p> <p>12. PROVIDE CABLE OPERATED DAMPERS IN BRANCH DUCTWORK SERVING REGISTERS, GRILLES, AND DIFFUSERS IN INACCESSIBLE CEILING LOCATIONS WHETHER INDICATED OR NOT.</p> <p>13. LOCATE ALL BALANCING DAMPERS AT CLEAN DUCTWORK ABOVE ACCESSIBLE CEILINGS, OR PROVIDE ACCESS DOORS.</p> <p>14. PROVIDE FIRE DAMPERS, SMOKE DAMPERS AND A COMBINATION OF FIRE/SMOKE DAMPERS AS REQUIRED TO MAINTAIN WALL & FLOOR RATINGS AS DEFINED IN ARCHITECTURAL DRAWINGS.</p> <p>15. DO NOT RUN ANY MECHANICAL OR CONTROL SERVICES THROUGH RATED STAIR ENCLOSURES UNLESS SYSTEMS ARE DESIGNED AND DESIGNATED TO SERVICE STAIRS.</p> <p>16. THESE GENERAL NOTES ARE APPLICABLE TO ALL MECHANICAL DRAWINGS.</p> <p>17. DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL INTENT OF WORK. SEE DETAILS, SCHEDULES AND SPECIFICATIONS</p> <p>18. MECHANICAL CONTRACTOR MUST REVIEW DRAWINGS OF THE OTHER TRADES AS PART OF THIS CONTRACT FOR ADDITIONAL WORK REQUIRED AND OR COORDINATION OF HIS WORK FOR OPERATIONS OR CONNECTIONS TO OTHER SYSTEMS.</p>	
<p><u>SHOP DRAWINGS</u></p> <p>1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BE REVIEWED BY THE ENGINEER PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL BE SUBMITTED FOR DUCTWORK LAYOUT, PIPING LAYOUT, SHEET METAL SHOP STANDARDS AND ALL EQUIPMENT FURNISHED.</p> <p>2. ELECTRONIC DRAWING FILES SHALL BE GENERATED BY THE CONTRACTOR DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC VERSION (AUTOCAD VERSION AS REQUIRED BY THE OWNER) OR AUTOCAD VERSION 2017 IF NOT SPECIFIED.</p>	
<p>3. PRIOR TO THE SUBMISSION AND REVIEW OF SHEET METAL SHOP DRAWINGS, THE CONTRACTOR SHALL SUBMIT FOR REVIEW SHEET METAL SHOP STANDARDS. ANY SHEET METAL SHOP DRAWINGS SUBMITTED PRIOR TO THE SUBMISSION OF THE SHOP STANDARDS SHALL BE RETURNED NOT REVIEWED.</p> <p><u>AS BUILT DRAWINGS</u></p> <p>1. PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC VERSION (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) OR LATEST AUTOCAD VERSION IF NOT SPECIFIED. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.</p> <p>2. PROVIDE "AS-BUILT DRAWINGS" INDICATING IN A NEAT AND ACCURATE MANNER A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN OF THE WORK. INDICATE THE FOLLOWING INSTALLED CONDITIONS:</p> <ul style="list-style-type: none"> • INCLUDE ALL CHANGES AND AN ACCURATE RECORD IN AUTOCAD DRAWING OR APPROPRIATE SHOP DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND WORK INSTALLED. • MAINS AND BRANCHES OF PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, CONCEALED UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE LOCATED (I.E., TRAPS, STRAINERS, EXPANSION COMPENSATORS, TANKS, ETC.). VALVE LOCATION DIAGRAMS, COMPLETE WITH VALVE TAG CHART. • EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES. • APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED. • CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED. <p>3. SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED DRAWINGS, MANUALS AND OPERATING INSTRUCTIONS.</p> <p>4. SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.</p> <p>5. SUBMIT ALL WARRANTY FOR EQUIPMENT.</p>	

ABBREVIATIONS

FD	FIRE DAMPER WITH ACCESS DOOR
FIN FL	FINISH FLOOR
FL	FLOOR
FLEX	FLEXIBLE
FT	FEET
FC	FACE VELOCITY
GC	GENERAL CONTRACTOR
H/C	HEATING/COOLING
HC#	HEATING COIL
HTG	HEATING
HVAC	HEATING, VENTILATING & AIR CONDITIONING
ID	INSIDE DIMENSION
IN	INCHES
IN	LEAVING AIR TEMPERATURE
LAT	LINEAR DIFFUSER
LVG	LEAVING
MAN	MANUAL
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	1000 BTU'S
ME	MECHANICAL EQUIPMENT ROOM
MIN	MINIMUM
NC	NOISE CRITERIA
NFA	NET FREE AREA
NC	NOT IN THIS CONTRACT
NIS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTDOOR AIR TEMPERATURE
OAI	OUTDOOR AIR INTAKE
OD	OUTSIDE DIMENSION
O.E.T.D.	OPEN ENTRANSFER DUCT
OEO	OPEN END DUCT
PD	PRESSURE DROP
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RH	RELATIVE HUMIDITY
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SF	STATIC PRESSURE
SQ FT	SQUARE FOOT (AREA)
TSTAT	THERMOSTAT
TEMP	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TG	AIR TRANSFER GRILLE
TRD	TRANSFER DUCT
TYP	TYPICAL
UC	UNDERCUT DOOR
VD	VOLUME DAMPER
W	WITH
WB	WET BULB
WMS	WIRE MESH SCREEN
WT	WEIGHT(LBS)

*ALL ABBREVIATIONS MAY NOT BE USED IN THESE DOCUMENTS.

PERFORMANCE SPECIFICATION - MECHANICAL	
<p>PERFORMANCE SPECIFICATION SECTION 15800-HEATING, VENTILATING, AIR CONDITIONING</p> <p>PART 1 - GENERAL REQUIREMENTS</p> <p>1.01 SCOPE OF WORK</p> <p>INSTALL ALL NEW WORK IN A NEAT WORKMANLIKE MANNER READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR.</p> <p>WORK UNDER THIS SECTION SHALL INCLUDE ALL LABOR, MATERIALS, SERVICES, EQUIPMENT, TRANSPORTATION AND OTHER INCIDENTALS NECESSARY TO FURNISH, INSTALL, AND TO CONSTRUCT ALL HVAC SYSTEMS INCLUDING:</p> <ul style="list-style-type: none"> - COOLING UNITS - HEATING UNITS - PIPING 	<ol style="list-style-type: none"> 6. "ARCHITECT"; "ENGINEER"; "OWNER'S REPRESENTATIVE". THE PARTY OR PARTIES RESPONSIBLE FOR INTERPRETING, ACCEPTING AND OTHERWISE RULING ON THE PERFORMANCE UNDER THIS CONTRACT. 7. "FURNISH"-PURCHASE AND DELIVER TO THE PROJECT SITE COMPLETE WITH EVERY NECESSARY APPURTENANCE AND SUPPORT, ALL AS PART OF THE MECHANICAL WORK. 8. "INSTALL"- UNLOAD AT THE DELIVERY POINT AT THE SITE AND PERFORM EVERY OPERATION NECESSARY TO ESTABLISH SECURE MOUNTING INSTALLATION AND CORRECT OPERATION AT THE PROPER LOCATION IN THE PROJECT, ALL AS PART OF THE MECHANICAL WORK. 9. "PROVIDE"- "FURNISH" AND "INSTALL". 10. "NEW"-MANUFACTURED WITHIN THE PAST TWO YEARS AND NEVER BEFORE USED. 11. "RELOCATE"-MOVE EXISTING EQUIPMENT AND ALL ACCESSORIES AS REQUIRED. 12. "REMOVE"- DISMANTLE AND CART AWAY FROM SITE INCLUDING ALL RELATED ACCESSORIES. ALL ITEMS SHALL BE LEGALLY DISPOSED OF. ALL OTHER EQUIPMENT AND OPERATIONS IN ANY WAY AFFECTED BY THE REMOVAL IS TO REMAIN IN FULL OPERATION. PROVIDE ALL NECESSARY COMPONENTS TO MAINTAIN SUCH OPERATION.
1.02 SUBMITTALS	THE FOLLOWING CODES AND STANDARDS SHALL APPLY TO THIS WORK:
<p>A. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND CONTRACTOR'S SERVICES NECESSARY FOR COMPLETE, SAFE INSTALLATION OF ALL MECHANICAL WORK. THE SCOPE OF WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:</p> <ol style="list-style-type: none"> 1. INSULATION OF PIPING, EQUIPMENT. 2. TESTING AND BALANCING. 3. CUTTING AND PATCHING. 4. SHOP DRAWINGS. 5. AS-BUILT DRAWINGS. 6. OPERATING AND MAINTENANCE MANUALS. 7. FULL COORDINATION WITH OTHER TRADES. 8. WARRANTY AND GUARANTY. 9. PHASING AS REQUIRED BY OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR OR BUILDING MANAGEMENT 10. PREMIUM TIME FOR WORK TO BE PERFORMED AFTER-HOURS AS REQUIRED BY BUILDING MANAGEMENT AND/OR OWNER. 11. FILING, PERMITS, CONTROLLED INSPECTIONS. 12. FULL TESTING AND STARTUP OF ALL SYSTEMS. 	<p>ASTM A120, STEEL PIPE</p> <p>ASTM B88, COPPER TUBING</p> <p>ANSI H23.1 STANDARDS FOR COPPER TUBING</p> <p>ANSI B31.1 CODE FOR PRESSURE PIPING</p> <p>NEMA NC1 MOTOR GENERATOR STANDARDS</p> <p>NEMA DC1 STANDARDS FOR TEMPERATURE CONTROLS</p> <p>NFPA-90A AIR CONDITIONING AND VENTILATING SYSTEM</p> <p>NFPA-91 BLOWER AND EXHAUST SYSTEMS</p> <p>APPLICABLE BOCA MECHANICAL CODE</p>
	1.04 ELECTRICAL REQUIREMENTS
	<p>THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING ALL MOTORS FOR EQUIPMENT SPECIFIED HEREIN IF NOT SUPPLIED AS PART OF EQUIPMENT. MOTORS UP TO 1/2 HP SHALL BE 115 VOLT, SINGLE PHASE. MOTORS 1/2 HP AND OVER SHALL BE 208 VOLT, 3 PHASE.</p> <p>MOTORS SHALL BE GENERAL ELECTRIC, WESTINGHOUSE, OR ALLIS CHALMERS. ALL MOTORS SHALL BE 40 DEGREE C RISE, BUILT IN ACCORDANCE WITH A.I.E.E. STANDARDS.</p> <p>ALL CIRCUIT BREAKERS AND FUSED DISCONNECT SWITCHES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR COORDINATE WITH ELECT. DWG. STARTERS WITH AUXILIARY CONTACTS SHALL BE FURNISHED FOR ALL 3 PHASE MOTORS SUPPLIED UNDER THIS CONTRACT.</p> <p>ALL AIR EQUIPMENT OF 2000 CFM AND LARGER SHALL BE SUPPLIED WITH SMOKE DETECTORS INSTALLED IN THE DUCTWORK AS REQUIRED BY NFPA 90A PAR. 4-3. WIRING OF THESE DETECTORS SHALL BE A PART OF THIS MECHANICAL CONTRACT.</p>
ISSUE 4 COPIES OF MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS AND SHOP DRAWINGS FOR ALL ITEMS OF THE HVAC EQUIPMENT FOR APPROVAL.	
1.03 CODES	
A. CODES, PERMITS AND INSPECTIONS:	
<ol style="list-style-type: none"> 1. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF CONNECTICUT BUILDING CODE-FARMINGTON BUILDING DEPARTMENT BUILDING MANAGEMENT, AND ALL AUTHORITIES HAVING JURISDICTION AND APPLICABLE NATIONAL, STATE AND LOCAL CODES, LAWS AND REGULATIONS COVERING OR RELATING TO ANY PORTION OF THIS WORKSHALL BE INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS. CONTRACTOR IS TO INFORM ENGINEER OF ANY EXISTING WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE BY THIS CONTRACTOR AND AT NO EXPENSE TO THE OWNER. 2. THIS CONTRACTOR SHALL OBTAIN ALL EQUIPMENT APPROVALS AS REQUIRED BY STATE AND LOCAL AUTHORITIES. PERMITS SHALL BE TURNED OVER AT JOB COMPLETION. 	1.05 COORDINATION WITH BUILDING MANAGEMENT
B. SITE VERIFICATION:	<ol style="list-style-type: none"> A. THIS CONTRACTOR IS TO OBTAIN A COPY OF THE BUILDING RULES AND REGULATIONS PRIOR TO BID SUBMISSION TO DETERMINE THE REQUIREMENTS AND THE EXTENT OF PREMIUM THE WORK REQUIRED BY THE BUILDING. B. THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO THE BUILDING OWNER'S RULES AND REGULATIONS. ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE BUILDING RULES AND REGULATIONS SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT/ENGINEER FOR REVIEW WITH BID SUBMISSION. C. COORDINATE WITH BUILDING OWNER FOR ANY SERVICE INTERRUPTION OF EXISTING SYSTEMS AND GIVE NOTICE AS REQUIRED BY BUILDING RULES AND REGULATIONS. OR CONTRACTOR TO PROVIDE A MINIMUM OF TWO(2) DAYS NOTICE PRIOR TO ANY WORK BEING PERFORMED, WHICHEVER IS THE MORE STRINGENT. CONTRACTOR IS TO PERFORM WORK ON PREMIUM TIME, IF SO DIRECTED BY BUILDING OWNER, SO AS NOT TO DISTURB EXISTING TENANTS ON OTHER FLOORS.
	1.06 SHOP DRAWINGS
	<p>A. SUBMIT SHOP DRAWING CERTIFIED BY ALL TRADES THAT COORDINATES HAS BEEN COMPLETED. SUBMIT ALL CERTIFIED EQUIPMENT CUTS WITH CONSTRUCTION WIRING DIAGRAMS AND AUTOMATIC TEMPERATURE CONTROL REQUIREMENTS. SHOP DRAWINGS SUBMISSION SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:</p> <ol style="list-style-type: none"> 1. DUCTWORK PROVIDE DUCT SHOP STANDARDS AND LEAKAGE TEST CERTIFICATION

[illegible]

AIR CONDITIONING UNIT SCHEDULE

NOTES: 1. PROVIDE DISC. SWITCH AND STARTER BY ELECTRICAL CONTRACTOR. 2.MECHANICAL CONTRACTOR TO PROVIDE PROGRAMMABLE T'STAT AND ELEC. CONTRACTOR TO WIRE.

SYMBOL	MANUFACTURER	MODEL NO.	AREA SERVES	CFM	TONS	PH	VOLTS	HEATING TYPE	HEATING CAPACITY (BTUH)		COOLING CAPACITY (BTUH)		QTY	REMARKS
									MINIMUM	MAXIMUM	MINIMUM	MAXIMUM		
IDU-1	MITSUBISHI ELECTRIC	MSZ-FS18NA	CLASSROOM (ELEMENTARY SCHOOL)	514	1.5	1	208	ELECTRIC	6,450	21,000	5,150	30,000	50	
IDU-2	MITSUBISHI ELECTRIC	MSZ-GL24NA	GYMNESIUM (ELEMENTARY SCHOOL)	738	2.5	1	208	ELECTRIC	7,500	36,900	8,200	31,400	4	

NOTE-1:
MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL
CONDENSATE PUMP FOR ALL INDOOR UNIT.

CONDENSING UNIT SCHEDULE											
NOTE: PROVIDE DISC. SWITCH & STARTER BY ELECTRICAL CONTRACTOR. PROVIDE HEAVY DUTY WALL MOUNT BRACKET FOR ALL CONDENSING UNITS.											
SYMBOL	MANUFACTURER	MODEL NO.	TON	REF	PH	VOLTS	MCA	AREA SERVES	QTY	REMARKS	
CU-1	mitsubishi electric	MUZ-FS18NAH	1.5	R410A	1	208	18	CLASSROOM (ELEMENTARY SCHOOL)	50	NEW UNIT	
CU-2	mitsubishi electric	MUZ-GL24NA-U1	2.5	R410A	1	208	18	GYMNESIUM (ELEMENTARY SCHOOL)	4	NEW UNIT	

MECHANICAL DRAWING INDEX	
SHEET NUMBER	SHEET NAME
M-001	MECHANICAL NOTES, SPECIFICATION, SCHEDULES AND LEGENDS
M-002	MECHANICAL SCHEDULES
M-101	FIRST FLOOR OVERALL MECHANICAL PLAN
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M-105	SECOND FLOOR MECHANICAL PLAN-PART B
M-106	SECOND FLOOR MECHANICAL PLAN-PART C
M-300	MECHANICAL DETAILS

FILE NO: 24103.01

SCALE: AS NOTED

DATE: 07/10/2024

DRAWN BY: MF

CHECKED BY: HH

SHEET TITLE: MECHANICAL SCHEDULES

SHEET NUMBER: M-002

PROJECT: PUTNAM ELEMENTARY SCHOOL

33 WICKER ST, PUTNAM, CT 06260

STAMP:

SEAL OF THE STATE OF CONNECTICUT

OFFICE OF THE REGISTERED PROFESSIONAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER

NO. 12345

EXPIRATION DATE 12/31/2025

REVISIONS

NO.	DESCRIPTION	DATE	BY

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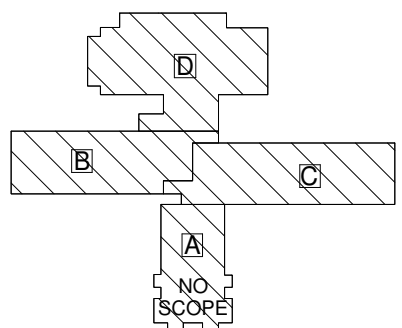
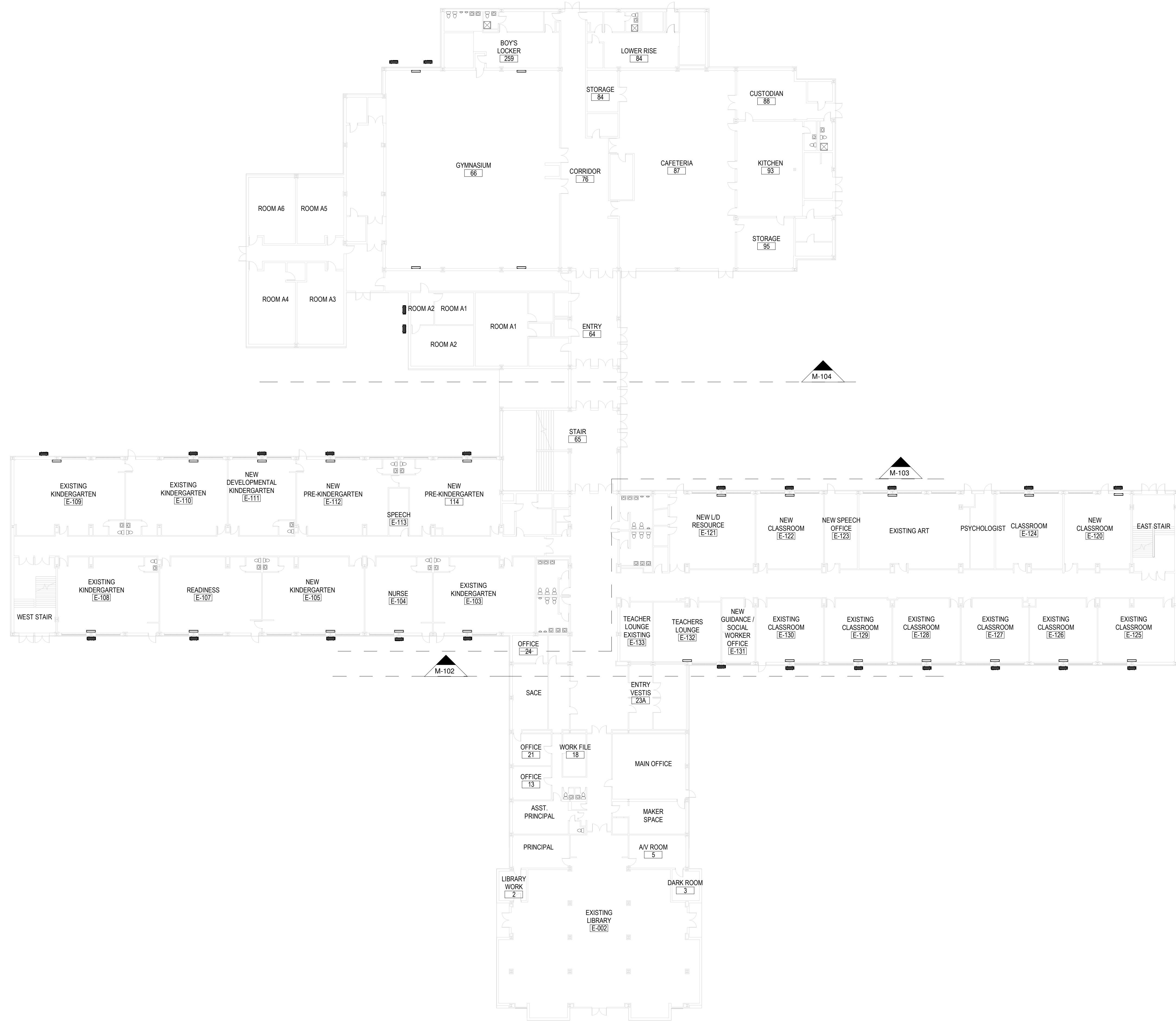
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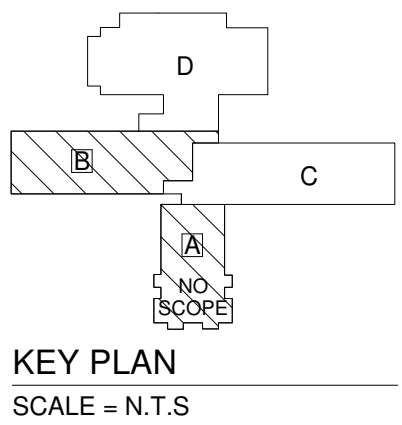
1111 Main Street, East Hartford, CT 06108

TEL: (860) 289-1100 FAX: (860) 289-2272 E-MAIL: rda@rda-inc.com



KEY PLAN
SCALE = N.T.S

[illegible]



SHEET TITLE:
FIRST FLOOR MECHANICAL
PLAN-PART B

SHEET NUMBER:
M-10

ECT: PUTNAM ELEMENTARY SCHOOL

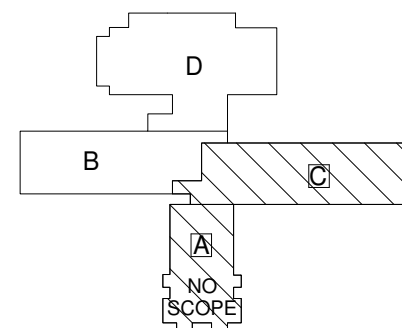
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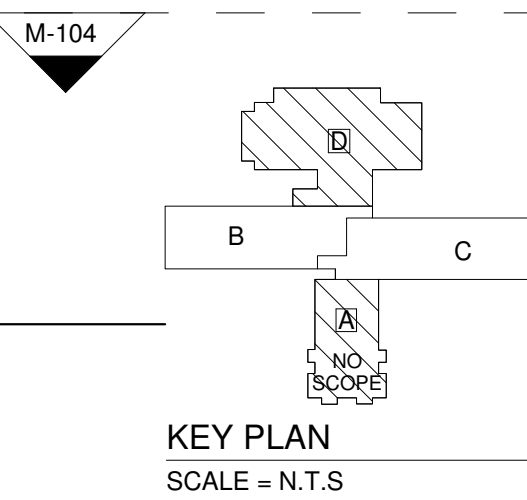
RUSSELL AND DAWSON INC.,
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1111 Main Street, East Hartford CT 06108
TEL: (860) 289-1100 FAX: (860) 289-3272 E-MAIL: info@rdap.com



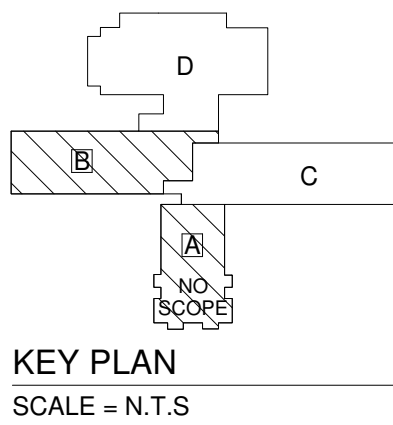
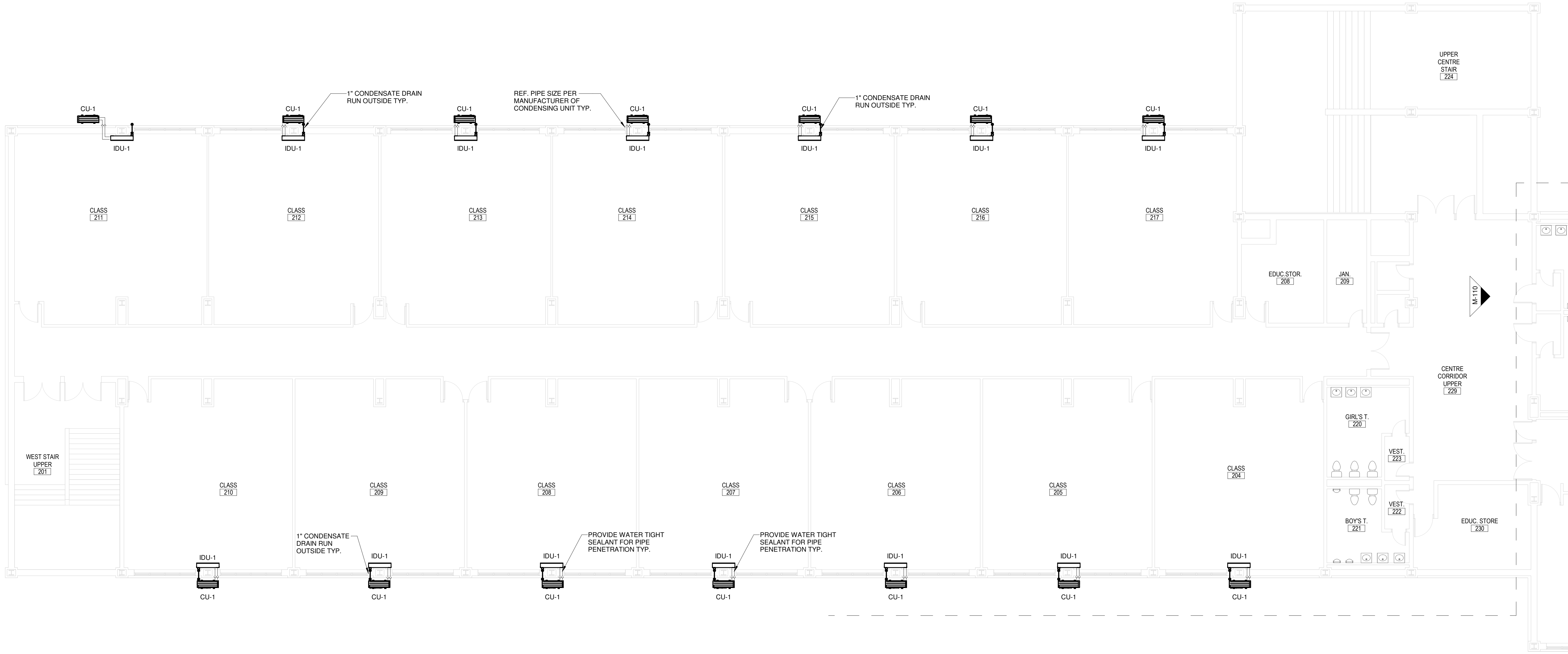
KEY PLAN
SCALE = N.T.S.

[illegible]

[illegible]

1 SECOND FLOOR MECHANICAL PLAN - PART B (ELEMENTARY SCHOOL)

M-105 1/8" = 1'-0"



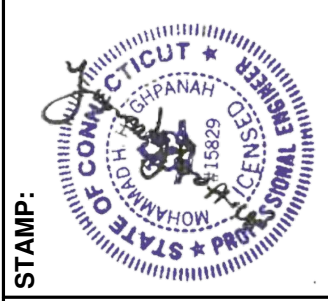
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SECOND FLOOR
MECHANICAL PLAN-PART B

SHEET NUMBER:
M-105

FILE NO: 24103.01
SCALE: AS NOTED
DATE: 07/10/2024
DRAWN BY: MF
CHECKED BY: HH

PROJECT:
PUTNAM ELEMENTARY SCHOOL

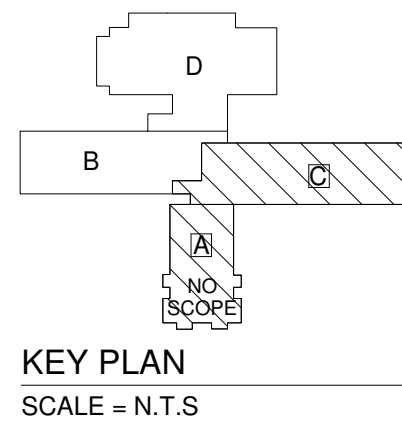
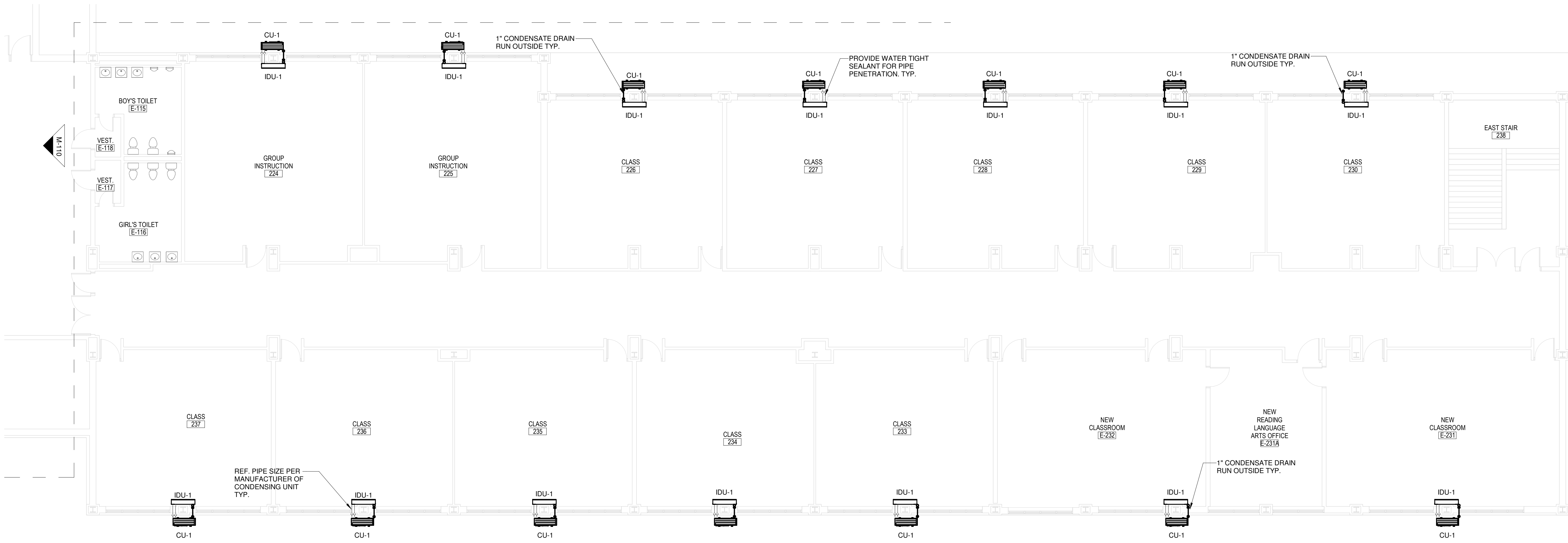
33 WICKER ST., PUTNAM, CT 06260



REVISIONS		NO.	DESCRIPTION	DATE	BY

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1 SECOND FLOOR MECHANICAL PLAN - PART C (ELEMENTARY SCHOOL)
M-106 / 1/8" = 1'-0"

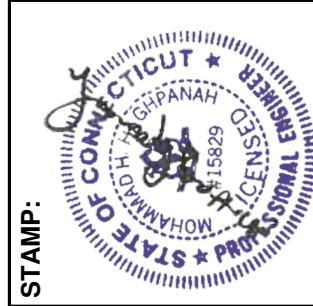


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SECOND FLOOR
MECHANICAL PLAN-PART C

SHEET NUMBER:
M-106

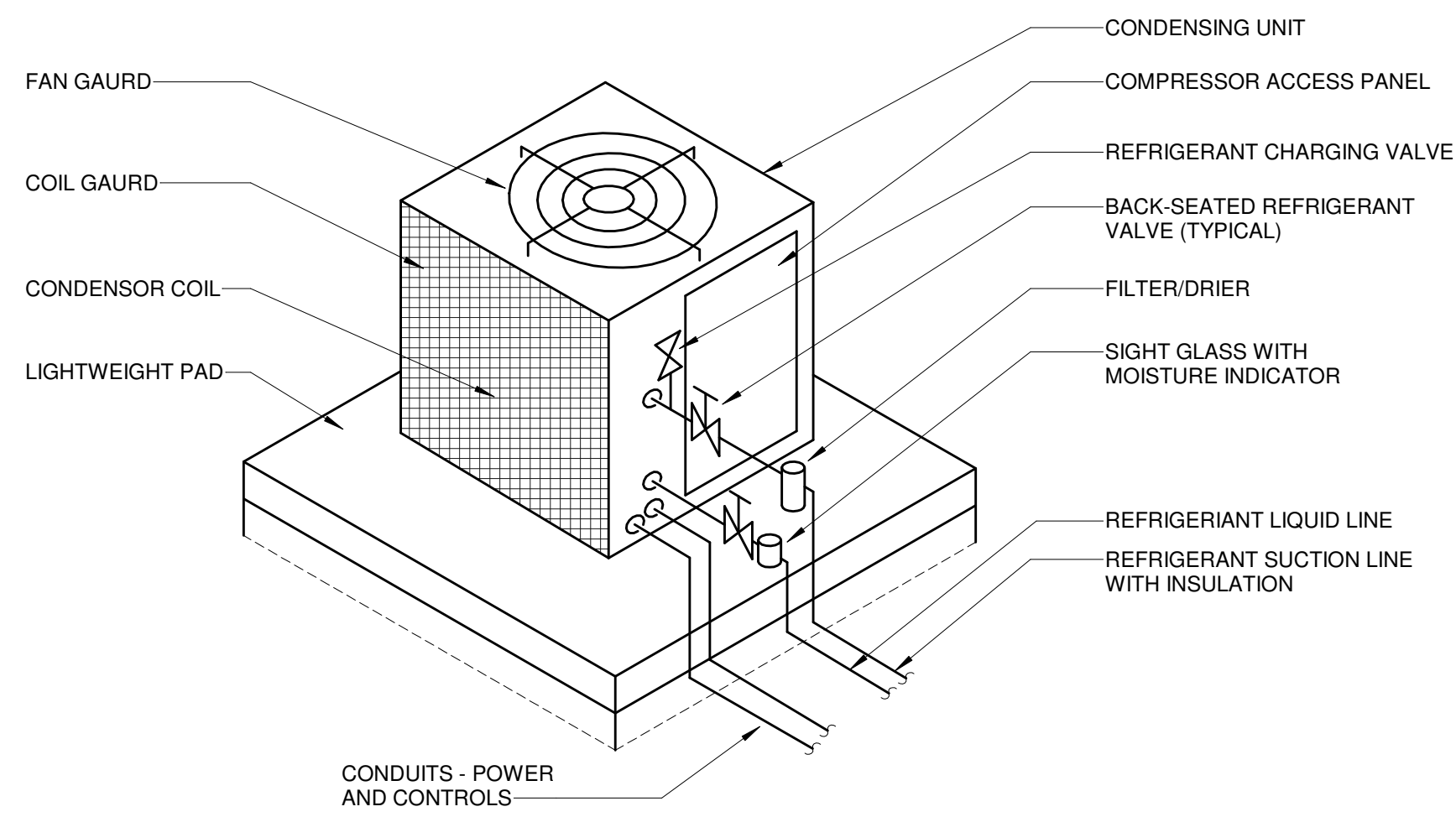
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SCALE: AS NOTED
DATE: 07/10/2024
DRAWN BY: MF
CHECKED BY: HH

PROJECT:
PUTNAM ELEMENTARY SCHOOL
33 WICKER ST, PUTNAM, CT 06260

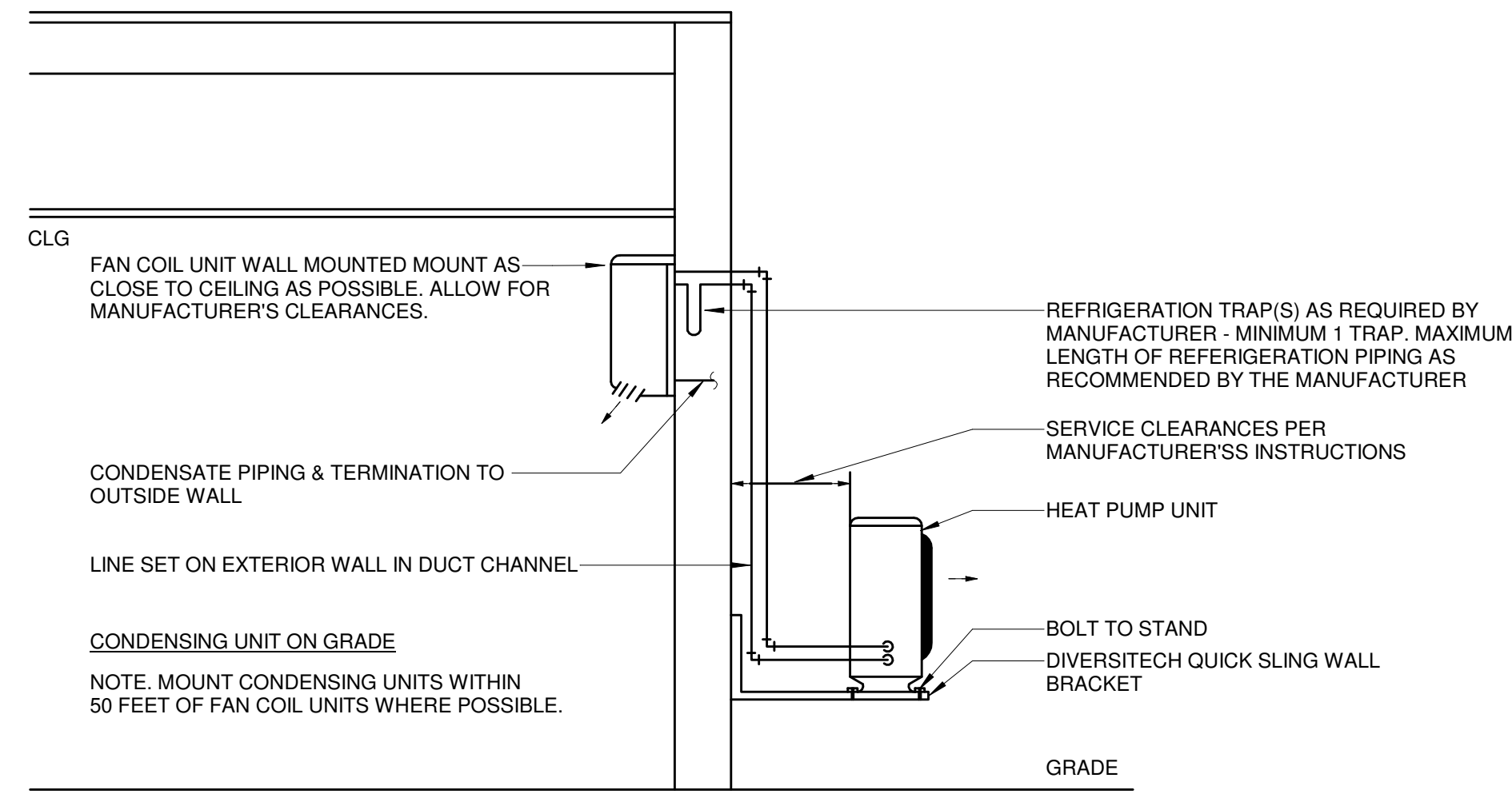


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1 CONDENSING UNIT PIPING DIAGRAM
M-300 N.T.S.






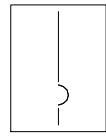
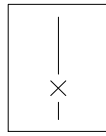



































2 TYPICAL WALL MOUNTED SPLIT SYSTEM HEAT PUMP DETAIL
M-300 N.T.S.

[illegible]




























E-001

ELECTRICAL FIXTURE LEGEND	
SYMBOL	DESCRIPTION
	MOTOR, SEE SCHEDULE
	MOTORIZED SCREEN / DOOR
	LOW VOLTAGE TRANSFORMER
	JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	CEILING MOUNTED JUNCTION BOX
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	SWITCHED DUPLEX RECEPTACLE
	DUPLEX GFI RECEPTACLE
	QUAD GFI RECEPTACLE
	DUPLEX RECEPTACLE USB
	QUAD RECEPTACLE
	QUAD RECEPTACLE USB
	SPECIAL NEMA RATED RECEPTACLE
	SPECIAL HARDWIRED CONNECTION
	SIMPLEX RECEPTACLE IN FLUSH MOUNTED FLOOR BOX
	DUPLEX RECEPTACLE IN FLUSH MOUNTED FLOOR BOX
	HALF SWITCHED DUPLEX RECEPTACLE IN FLUSH MOUNTED FLOOR BOX
	QUAD RECEPTACLE IN FLUSH MOUNTED FLOOR BOX
	SPECIAL NEMA RATED RECEPTACLE IN FLUSH MOUNTED FLOOR BOX
	SPECIAL HARDWIRED CONNECTION IN FLUSH MOUNTED FLOOR BOX
	FLUSH MOUNTED PANELBOARD \ LOAD CENTER
	SURFACE MOUNTED PANELBOARD \ LOAD CENTER
	FLUSH MOUNTED SPECIAL PURPOSE METAL ENCLOSURE
	SURFACE MOUNTED SPECIAL PURPOSE METAL ENCLOSURE
	BRANCH CIRCUIT WIRING IN CONDUIT
	SWITCHED BRANCH CIRCUIT IN CONDUIT
	BRANCH CIRCUIT HOMERUN INDICATOR IN CONDUIT
	CONTROL WIRE
	THERMOSTAT
	FLOOR BOX
	DISCONNECT SWITCH

MISCELLANEOUS DEVICE LEGEND	
SYMBOL	DESCRIPTION
	CIRCUIT BREAKER, RATING AS SHOWN
	ELECTRICAL GROUND, SIZE AS SHOWN
	SLEEVES THROUGH RATED WALLS \ FLOORS, FIRESTOP AS REQUIRED
	EQUIPMENT TAG, SEE INDIVIDUAL NOTE BOX
	WIRE TAG, SEE INDIVIDUAL NOTE BOX
	ONE LINE, MAIN CIRCUIT BREAKER PANEL
	ONE LINE, MAIN LUG ONLY PANEL
	MOTORIZED DAMPER
	FIRE AND SMOKE DAMPER

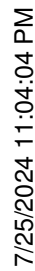
SYMBOL	DESCRIPTION
	RECESSED MOUNTED LIGHT FIXTURE
	RECESSED MOUNTED LIGHT FIXTURE WITH BATTERY BACK-UP POWER SUPPLY
	SURFACE MOUNTED LIGHT FIXTURE
	SURFACE MOUNTED LIGHT FIXTURE WITH BATTERY BACK-UP POWER SUPPLY
	RECESSED MOUNTED 2' x 2' FTL. FIXTURE
	CEILING MOUNTED EXIT SIGN WITH BATTERY BACK-UP POWER SUPPLY, SEE PLANS FOR FACE AND DIRECTION OF TRAVEL CONFIGURATIONS
	WALL MOUNTED EXIT SIGN WITH BATTERY BACK-UP POWER SUPPLY, SEE PLANS FOR FACE AND DIRECTION OF TRAVEL CONFIGURATIONS
	SIDE WALL EXIT SIGN WITH BATTERY BACK-UP POWER SUPPLY, SEE PLANS FOR FACE AND DIRECTION OF TRAVEL CONFIGURATIONS
	EMERGENCY DUAL HEAD FIXTURE WITH BATTERY BACK-UP POWER SUPPLY
	EMERGENCY DUAL HEAD FIXTURE WITH BATTERY BACK-UP POWER SUPPLY AND REMOTE CAPABILITIES
	BATTERY BACK-UP POWER SUPPLY FOR REMOTE HEADS
	EMERGENCY REMOTE DUAL HEAD FIXTURE
	EMERGENCY REMOTE HEAD FIXTURE
	RECESSED MOUNTED DOWN LIGHT FIXTURE
	RECESSED MOUNTED DOWN LIGHT FIXTURE WITH BATTERY BACK-UP POWER SUPPLY
	SURFACE MOUNTED DOWN LIGHT FIXTURE
	SURFACE MOUNTED DOWN LIGHT FIXTURE WITH BATTERY BACK-UP POWER SUPPLY
	WALL MOUNTED LINEAR LIGHT FIXTURE
	WALL MOUNTED LINEAR LIGHT FIXTURE WITH BATTERY BACK-UP POWER SUPPLY
	INTERIOR WALL MOUNTED SCONCE LIGHT FIXTURE
	INTERIOR WALL MOUNTED SCONCE LIGHT FIXTURE WITH BATTERY BACK-UP POWER SUPPLY
	EXTERIOR WALL MOUNTED LIGHT FIXTURE
	EXTERIOR WALL MOUNTED LIGHT FIXTURE WITH BATTERY BACK-UP POWER SUPPLY
	SINGLE POLE LIGHT SWITCH
	THREE-WAY TOGGLE SWITCH
	SINGLE POLE DIMMER SWITCH
	KEYED SWITCH
	PILOT SWITCH
	CONTROL SWITCH FOR MOTORISED SHADES
	TIMER SWITCH
	EMERGENCY SWITCH

LOW VOLTAGE DEVICE LEGEND	
FIRE ALARM	
SYMBOL	DESCRIPTION
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM END OF LINE RESISTOR
	FIRE ALARM PULL STATION, WALL MOUNTED AT 48" AFF., 'S' INDICATES STOPPER COVER DEVICE WHERE SHOWN
	ADDRESSABLE PHOTO ELECTRIC SMOKE DETECTOR
	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR WITH HOUSING
	REMOTE INDICATOR AND TEST STATION FOR DUCT MOUNTED DETECTORS
	FIRE ALARM HEAT DETECTOR
	ELEVATOR RECALL SYSTEM FIRE ALARM SMOKE DETECTOR
	ELEVATOR RECALL SYSTEM FIRE ALARM HEAT DETECTOR
	FIRE ALARM MODULE FOR FIRE PROTECTION PRESSURE SWITCH
	FIRE ALARM MODULE FOR FIRE PROTECTION FLOW SWITCH
	FIRE ALARM MODULE FOR FIRE PROTECTION TAMPER SWITCH
	FIRE ALARM CONTROL MODULE
	FIRE ALARM MONITOR MODULE
	FIRE ALARM HORN/STROBE DEVICE, WALL MOUNTED AT 68" AFF. OR 6" BELOW CEILING, WHICHEVER IS LOWER. WITH ADA 15/75 CANDELA STROBE
	FIRE ALARM HORN/STROBE (LOW FREQUENCIES) DEVICE, WALL MOUNTED AT 68" AFF. OR 6" BELOW CEILING, WHICHEVER IS LOWER. WITH ADA 15/75 CANDELA STROBE
	FIRE ALARM STROBE DEVICE, WALL MOUNTED AT 68" AFF. OR 6" BELOW CEILING, WHICHEVER IS LOWER. WITH ADA 15/75 CANDELA STROBE
	FIRE ALARM STROBE DEVICE, WALL MOUNTED AT 68" AFF. OR 6" BELOW CEILING, WHICHEVER IS LOWER. WITH 177 CANDELA STROBE
	CARBON MONOXIDE DETECTOR
	520 HZ. LOW FREQUENCY TYPE COMBINATION OF PHOTOELECTRIC ADDRESSABLE SMOKE DETECTOR WITH SOUNDER BASE AND CARBON MONOXIDE DETECTOR.
	ADDRESSABLE INTERFACE DEVICE
	MAGNETIC HOLD OPEN DEVICE

COMMUNICATION DEVICE LEGEND	
SYMBOL	DESCRIPTION
	EMERGENCY CALL-FOR-AID WALL MOUNTED LIGHT AND BUZZER UNIT
	EMERGENCY CALL-FOR-AID SWITCH WITH PULL CORD
	WALL MOUNTED SYSTEM CLOCK
	FLUSH TO CEILING MOUNTED SYSTEM SPEAKER
	SURFACE, CEILING MOUNTED SYSTEM SPEAKER
	WALL MOUNTED SYSTEM SPEAKER
	WALL MOUNTED HORN TYPE LOUD SYSTEM SPEAKER
	COMBINATION WALL MOUNTED SYSTEM SPEAKER AND CLOCK
	MICROPHONE OUTLET
	DATA OUTLET & RACEWAY, TWO GANG BACKBOX WITH 1" CONDUIT STUBBED INTO AN ACCESSIBLE CEILING, PROVIDE WITH NYLON PULL STRING
	COMBINATION DATA \ TELEPHONE OUTLET & RACEWAY, TWO GANG BACKBOX WITH (2)1" CONDUIT STUBBED INTO AN ACCESSIBLE CEILING, PROVIDE WITH NYLON PULL STRING
	TELEPHONE OUTLET & RACEWAY, TWO GANG BACKBOX WITH 1" CONDUIT STUBBED INTO AN ACCESSIBLE CEILING, PROVIDE WITH NYLON PULL STRING
	WALL TELEPHONE OUTLET & RACEWAY, TWO GANG BACKBOX MOUNTED AT 48" AFF WITH 1" CONDUIT STUBBED INTO AN ACCESSIBLE CEILING, PROVIDE WITH NYLON PULL STRING
	DATA OUTLET IN FLUSH MOUNTED FLOOR BOX, CABLING BY OTHERS
	COMBINATION DATA \ TELEPHONE OUTLET IN FLUSH MOUNTED FLOOR BOX, CABLING BY OTHERS
	TELEPHONE OUTLET IN FLUSH MOUNTED FLOOR BOX, CABLING BY OTHERS
	CATV OUTLET & RACEWAY, TWO GANG BACKBOX WITH 1" CONDUIT STUBBED INTO AN ACCESSIBLE CEILING, PROVIDE WITH NYLON PULL STRING
	HOUSE PHONE
	TELEPHONE STROBE
	INTERCOM
	CARD READER
	WIRELESS DATA ACCESS POINT
	TV CABLE OUTLET
	DOOR RELEASE STATION
	DURESS ALARM BUTTON
	DOORBELL PUSH BUTTON
	DOOR ANNUNCIATOR AUDIBLE/ VISUAL SIGNALING DEVICE WITH HORN/ STROBE, ASSOCIATED TRANSFORMER LOCATED ABOVE ACCESSIBLE CEILING AND DOORBELL DISABLE SWITCH, EDWARDS CFA- SERIES 7005-GS.

TAG	DEFINITION	TAG	DEFINITION
A/AMP	AMPERAGE	MCB	MAIN CIRCUIT BREAKER
AC	ALTERNATING CURRENT	MCC	MOTOR CONTROL CENTER
AFF	ABOVE FINISHED FLOOR	MCCB	MOLDED CASE CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MH	METAL HALIDE
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MIN	MINIMUM
AIC	AMPS INTERRUPTING CURRENT	MLO	MAIN LUGS ONLY
AL	ALUMINUM	NA	NOT APPLICABLE
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRIC CODE
AWG	AMERICAN WIRE GAUGE	NIC	NOT IN CONTRACT
C	CONDUIT	NL	NEW LOCATION OF EXISTING RELOCATED
CATV	CABLE TELEVISION	NR	NEW TO REPLACE EXISTING
C/B	CIRCUIT BREAKER	NTS	NOT TO SCALE
CM	CEILING MOUNT	P	POLE
CT	CURRENT TRANSFORMER	PE	PRIMARY ELECTRICAL SERVICE
CU	COPPER	PH	PHASE
DN	DOWN	PNL	PANEL
DWG	DRAWING	PVC	POLYVINYL CHLORIDE CONDUIT
EXTG	EXISTING	RE	REMOVE EXISTING
E	EXISTING TO REMAIN	RGS	RIGID GALVANIZED STEEL CONDUIT
ELEC	ELECTRICAL	RL	RELOCATE EXISTING
ELEV	ELEVATOR	RM	ROOM
EMT	ELECTRICAL METALLIC TUBING	RR	REMOVE AND REPLACE ON NEW SURFACE
FA	FIRE ALARM	SE	SECONDARY ELECTRICAL SERVICE
FACP	FIRE ALARM CONTROL PANEL	SPEC	SPECIFICATION
G/GND	GROUND	SWBD	SWITCHBOARD
GFI	GROUND FAULT INTERRUPTER	TV	TELEVISION
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
HP	HORSE POWER	T/TX	TRANSFORMER
HPS	HIGH PRESSURE SODIUM	TYP	TYPICAL
HZ	HERTZ	V	VOLTS
IG	ISOLATED GROUND	VA	VOLT AMPERE
KCMIL	THOUSAND CIRCULAR MILS	W	WIRE
KVA	KILOVOLT AMPERE	WG	WIRE GUARD
KW	KILOWATT	WP	WEATHER PROOF
MAX	MAXIMUM		

[illegible]



Location: MAIN OFFICE

Supply From:

Mounting: SURFACE

Enclosure: TYPE 1

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating:

Mains Type: MCB

Bus Rating: 600 A

MCB Rating: 600 A

Feed Thru Lugs:

Notes:

CKT	Circuit Description	Note	Trip	Pole	A		B		C		Pole	Trip	Note	Circuit Description	CKT		
1	P-1		150 A	3	14976	14976					3	150 A		P-2	2		
3							11232	14976							4		
5									11232	14976					6		
7					8320	18720									8		
9	P-3		100 A	3			4160	18720			3	200 A		P-4	10		
11									4160	14976					12		
13					18720	0									14		
15							18720	0							16		
17	P-5		200 A	3					14976	0	1	20 A		Spare	18		
19															20		
21					0	0									22		
23					20 A	1	0	0							24		
25	Spare		20 A	1	0	0				0	0	1	20 A		Spare	26	
27	Spare		20 A	1			0	0			28						
29	Spare		20 A	1					0	0	30						
Total Load:					75712 VA		67808 VA		60320 VA								
Total Amps:					641 A		575 A		503 A								
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals									
Power		203840 VA		100.00%		203840 VA											
								Total Conn. Load: 203840 VA									
								Total Est. Demand: 203840 VA									
								Total Conn.: 566 A									
								Total Est. Demand: 566 A									

Notes:

Branch Panel: P-3												
Location: CORRIDOR E-167 Supply From: MDP-1 Mounting: SURFACE Enclosure: TYPE 1						Volts: 120/208 Wye Phases: 3 Wires: 4			A.I.C. Rating: Mains Type: MCB Bus Rating: 100 A MCB Rating: 100 A Feed Thru Lugs:			
Notes:												
CKT	Circuit Description	Note	Trip	Pole	A	B	C	Pole	Trip	Note	Circuit Description	CKT
1	CU-2 (GYMNASIUM 66)		25 A	2	2080	2080			2	25 A	CU-2 (GYMNASIUM 66)	2
3						2080	2080					4
5	CU-2 (GYMNASIUM 66)		25 A	2			2080	2080	2	25 A	CU-2 (GYMNASIUM 66)	6
7					2080	2080						8
9	Spare		20 A	1		0	0		1	20 A	Spare	10
11	Spare		20 A	1			0	0	1	20 A	Spare	12
13	Spare		20 A	1	0	0			1	20 A	Spare	14
15	Spare		20 A	1		0	0		1	20 A	Spare	16
17	Space		--	1				--	1	--	Space	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
Total Load:					8320 VA	4160 VA	4160 VA					
Total Amps:					69 A	35 A	35 A					
Load Classification		Connected Load	Demand Factor		Estimated Demand			Panel Totals				
Power		16640 VA	100.00%		16640 VA			Total Conn. Load: 16640 VA				
								Total Est. Demand: 16640 VA				
								Total Conn.: 46 A				
								Total Est. Demand: 46 A				
Notes:												

Branch Panel: P-1													
Location: Supply From: MDP-1 Mounting: SURFACE Enclosure: TYPE 1					Volts: 120/208 Wye Phases: 3 Wires: 4					A.I.C. Rating: Mains Type: MCB Bus Rating: 150 A MCB Rating: 150 A Feed Thru Lugs:			
Notes:													
CKT	Circuit Description	Note	Trip	Pole	A	B	C	Pole	Trip	Note	Circuit Description	CKT	
1	CU-1 (EXT. KINDERGARTEN)		25 A	2	1872	1872			2	25 A	CU-1 (EXT. KINDERGARTEN - E110)	2	
3						1872	1872					4	
5	CU-1 (NEW KINDERGARTEN - E111)		25 A	2				1872	1872		CU-1 (NEW KINDERGARTEN - E112)	6	
7					1872	1872						8	
9	CU-1 (NEW PRE-KINDERGARTEN - ...)		25 A	2				1872	1872		CU-1 (EXT. KINDERGARTEN - E-103))	10	
11												12	
13	CU-1 (DEVELOPMENTAL...)		25 A	2	1872	1872			2	25 A	CU-1 (NEW KINDERGARTEN - E105)	14	
15						1872	1872					16	
17	CU-1 (NEW KINDERGARTEN - E107)		25 A	2				1872	1872		CU-1 (EXT. KINDERGARTEN)	18	
19					1872	1872			2	25 A		20	
21	Spare		20 A	1		0	0		1	20 A	Spare	22	
23	Spare		20 A	1				0	0	1	20 A	Spare	24
25	Spare		20 A	1	0	0			1	20 A	Spare	26	
27	Spare		20 A	1		0	0		1	20 A	Spare	28	
29	Spare		20 A	1				0	0	1	20 A	Spare	30
Total Load:					14976 VA	11232 VA							
Total Amps:					125 A	94 A	94 A						
Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals								
Power		37440 VA	100.00%	37440 VA									
					Total Conn. Load:		37440 VA						
					Total Est. Demand:		37440 VA						
					Total Conn.:		104 A						
					Total Est. Demand:		104 A						
Notes:													

Branch Panel: P-4															
Location: WEST CORRIDOR 213 Supply From: MDP-1 Mounting: SURFACE Enclosure: TYPE 1					Volts: 120/208 Wye Phases: 3 Wires: 4					A.I.C. Rating: Mains Type: MCB Bus Rating: 200 A MCB Rating: 200 A Feed Thru Lugs:					
Notes:															
CKT	Circuit Description	Note	Trip	Pole	A		B		C		Pole	Trip	Note	Circuit Description	CKT
1	CU-1 (CLASS - 202)		25 A	2	1872	1872					2	25 A		CU-1 (CLASS - 203)	2
3							1872	1872							4
5	CU-1 (CLASS - 204)		25 A	2					1872	1872	2	25 A		CU-1 (CLASS - 205)	6
7					1872	1872									8
9	CU-1 (CLASS - 205A)		25 A	2			1872	1872			2	25 A		CU-1 (CLASS - 206)	10
11									1872	1872					12
13	CU-1 (CLASS - 207)		25 A	2	1872	1872					2	25 A		CU-1 (CLASS - 219)	14
15							1872	1872							16
17	CU-1 (CLASS - 218)		25 A	2					1872	1872	2	25 A		CU-1 (CLASS - 214A)	18
19					1872	1872									20
21	CU-1 (CLASS - 217)		25 A	2			1872	1872			2	25 A		CU-1 (CLASS - 216)	22
23									1872	1872					24
25	CU-1 (CLASS - 215)		25 A	2	1872	1872					2	25 A		CU-1 (CLASS - 214)	26
27							1872	1872							28
29	Spare		20 A	1					0	0	1	20 A		Spare	30
31	Spare		20 A	1	0	0					1	20 A		Spare	32
33	Spare		20 A	1			0	0			1	20 A		Spare	34
35	Spare		20 A	1					0	0	1	20 A		Spare	36
37	Spare		20 A	1	0	0					1	20 A		Spare	38
39	Spare		20 A	1			0	0			1	20 A		Spare	40
41	Spare		20 A	1					0	0	1	20 A		Spare	42
Total Load:					18720 VA		18720 VA		14976 VA						
Total Amps:					161 A		161 A		125 A						
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals							
Power		52416 VA		100.00%		52416 VA									
								Total Conn. Load: 52416 VA							
								Total Est. Demand: 145 A							
		</													

Location: EXISTING CLASSROOM E-130

Supply From: MDP-1

Mounting: SURFACE

Enclosure: TYPE 1

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating:

Mains Type: MCB

Bus Rating: 150 A

MCB Rating: 150 A

Feed Thru Lugs:

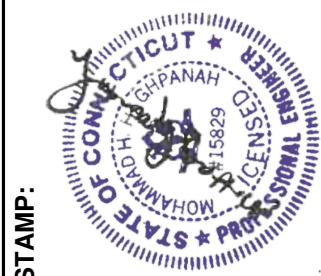
Notes:

CKT	Circuit Description	Note	Trip	Pole	A		B		C		Pole	Trip	Note	Circuit Description	CKT	
1	CU-1 (NEW L/D RESOURCE - E-121)		25 A	2	1872	1872					2	25 A		CU-1 (NEW CLASSROOM - E-122)	2	
3							1872	1872							4	
5									1872	1872	2	25 A			6	
7	CU-1 (EXT. ART - E-123)		25 A	2						1872	1872			CU-1 (NEW MUSIC - E-124)	8	
9	CU-1 (NEW CLASSROOM - E-124A)		25 A	2						1872	1872	2	25 A		CU-1 (EXT. CLASSROOM - E-125)	10
11										1872	1872					12
13																14
15	CU-1 (EXT. CLASSROOM - E-126)		25 A	2	1872	1872					2	25 A		CU-1 (EXT. CLASSROOM - E-127)	16	
17							1872	1872							18	
19									1872	1872	2	25 A			20	
21	CU-1 (EXT. CLASSROOM - E-127)		25 A	2										CU-1 (EXT. CLASSROOM - E-129)	22	
23							1872	1872			2	25 A			24	
25									1872	1872					26	
27	Spare		20 A	1	0	0					1	20 A		Spare	28	
29	Spare		20 A	1			0	0			1	20 A		Spare	30	
Total Load:					14976 VA		14976 VA		14976 VA							
Total Amps:					125 A		125 A									
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals								
Power		44928 VA		100.00%		44928 VA										
								Total Conn. Load: 44928 VA								
								Total Est. Demand: 44928 VA								
								Total Conn.: 125 A								
								Total Est. Demand: 125 A								

Notes:

Branch Panel: P-5																	
Location: Supply From: MDP-1 Mounting: SURFACE Enclosure: TYPE 1					Volts: 120/208 Wye Phases: 3 Wires: 4					A.I.C. Rating: Mains Type: MCB Bus Rating: 200 A MCB Rating: 200 A Feed Thru Lugs:							
Notes:																	
CKT	Circuit Description	Note	Trip	Pole	A		B		C		Pole	Trip	Note	Circuit Description	CKT		
1	CU-1 (GROUP INSTRUCTION - 231B)	25 A	2		1872	1872		1872	1872		2	25 A		CU-1 (GROUP INSTRUCTION - 231A)	2		
3																	4
5																	1872
7	CU-1 (CLASS - 232)	25 A	2		1872	1872				1872	1872	2	25 A	CU-1 (CLASS - 233)	8		
9	CU-1 (CLASS - 234)	25 A	2			1872	1872			1872	2	25 A		CU-1 (CLASS - 235)	10		
11																	
13	CU-1 (CLASS - 236)	25 A	2		1872	1872		1872	1872		2	25 A		CU-1 (CLASS 238)	14		
15																	16
17	CU-1 (CLASS 239)	25 A	2		1872	1872			1872	1872	2	25 A		CU-1 (CLASS 240)	18		
19																	
21	CU-1 (CLASS 241)	25 A	2			1872	1872			1872	2	25 A		CU-1 (CLASS 242)	22		
23																	
25	CU-1 (NEW CLASSROOM - E-232)	25 A	2		1872	1872				1872	2	25 A		CU-1 (NEW CLASSROOM - E-231)	26		
27																	28
29	Spare	20 A	1			1872	1872				1	20 A		Spare	30		
31	Spare	20 A	1		0	0			0	0	1	20 A		Spare	32		
33	Spare	20 A	1				0	0			1	20 A		Spare	34		
35	Spare	20 A	1						0	0	1	20 A		Spare	36		
37	Spare	20 A	1		0	0					1	20 A		Spare	38		
39	Spare	20 A	1		20 A	1			0	0	1	20 A		Spare	40		
41	Spare	20 A	1						0	0	1	20 A		Spare	42		
Total Load:					18720 VA		18720 VA		14976 VA								
Total Amps:					161 A		161 A		125 A								
Load Classification		Connected Load		Demand Factor		Estimated Demand				Panel Totals							
Power		52416 VA		100.00%				52416 VA									
										Total Conn. Load: 52416 VA							
										Total Est. Demand: 52416 VA							
										Total Conn.: 145 A							
										Total Est. Demand: 145 A							
Notes:																	

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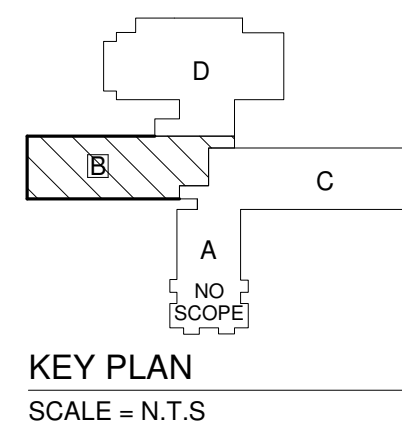
1111 Main Street, East Hartford CT 06108
TEL.: (860) 269-1100 FAX: (860) 269-3272 E-MAIL: info@daamp.com

PROJECT:		PUTNAM ELEMENTARY SCHOOL	
FILE NO:	24103.01		
SCALE:	AS NOTED		
DATE:	07/10/2024		
DRAWN BY:	YP		
CHECKED BY:	MA		

33 WICKER ST, PUTNAM, CT 06260

SHEET TITLE: FIRST FLOOR OVERALL ELECTRICAL PLAN

SHEET NUMBER: E-101



1. CONTRACTOR TO SUPPLY AND INSTALL NEW PANELS P-1, P-2, P-3, P-4, P-5 & P-6 INDICATED IN THE ELECTRICAL PLANS AND CONNECT THE PANELS TO NEWLY ADDED MDP-1 PANEL IN THE BASEMENT BOILER ROOM RESPECTIVELY. EXACT LOCATION OF PANELS SHALL BE CO-ORDINATED AT SITE.
2. CONTRACTOR TO PROVIDE POWER CONNECTIONS FOR ALL NEWLY ADDED MINI-SPLIT AIR CONDITIONING UNITS AS PER PANEL SCHEDULE.
3. CO-ORDINATE WITH MANUFACTURE FOR THE ACTUAL POWER CONNECTION REQUIREMENTS FOR THE MINI-SPLIT UNITS AND PROVIDE NECESSARY DISCONNECT SWITCHES AND CONTROL WIRING.


FILE NO:	24103.01	PROJECT:	PUTNAM ELEMENTARY SCHOOL
SCALE:	AS NOTED		
DATE:	07/10/2024		
DRAWN BY:	YP		

33 WICKER ST. PUTNAM, CT 06260

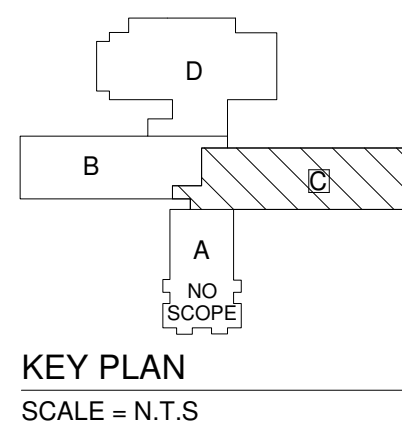
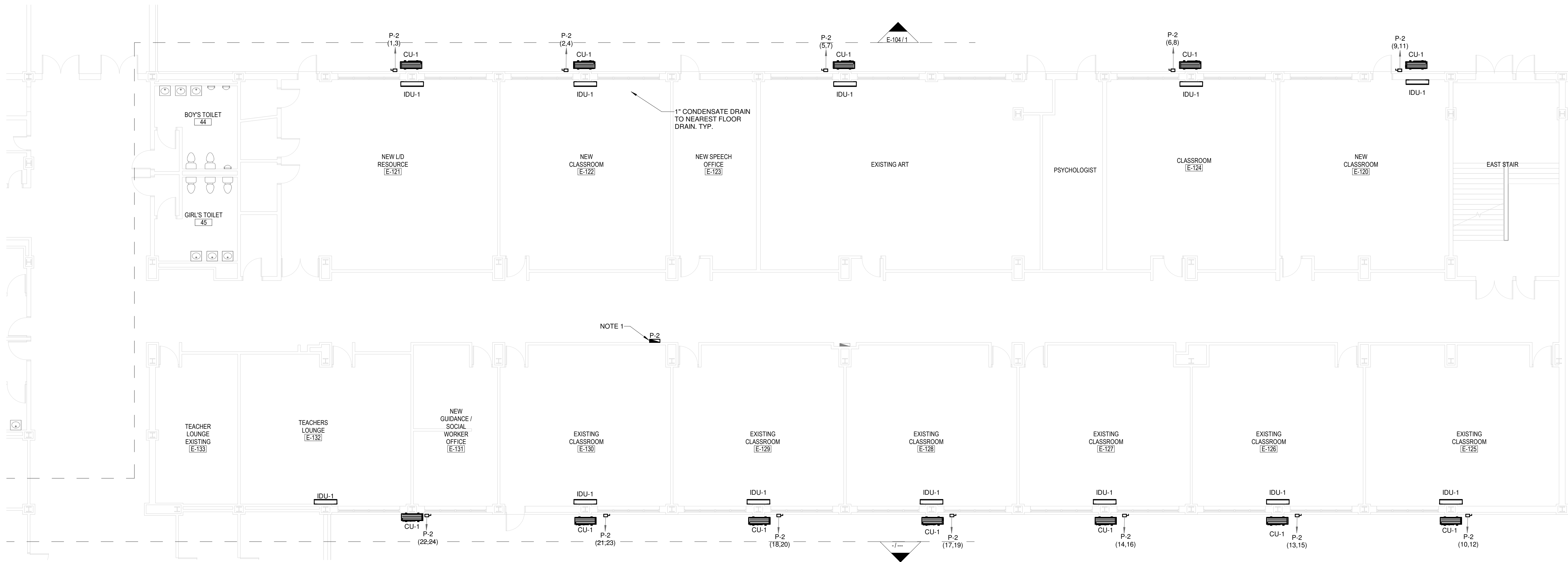


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TEL: (860) 289-1100 FAX: (860) 289-3272 E-MAIL: info@rdape.com



NOTES

1. CONTRACTOR TO SUPPLY AND INSTALL NEW PANELS P-1, P-2, P-3, P-4, P-5 & A INDICATED IN THE ELECTRICAL PLANS AND CONNECT THE PANELS TO NEWLY ADDED MDP-1 PANEL IN THE BASEMENT BOILER ROOM RESPECTIVELY. EXACT LOCATION OF PANELS SHALL BE CO-ORDINATED AT SITE.
2. CONTRACTOR TO PROVIDE POWER CONNECTIONS FOR ALL NEWLY ADDED MINI-SPLIT AIR CONDITIONING UNITS AS PER PANEL SCHEDULE.
3. CO-ORDINATE WITH MANUFACTURE FOR THE ACTUAL POWER CONNECTION REQUIREMENTS FOR THE MINI-SPLIT UNITS AND PROVIDE NECESSARY DISCONNECT SWITCHES AND CONTROL WIRING.

FILE NO:	24103.01
SCALE:	AS NOTED
DATE:	07/10/2024
DRAWN BY:	YP
CHECKED BY:	MA

ECT: PUTNAM ELEMENTARY SCHOOL

33 WICKER ST, PUTNAM, CT 06260

SHEET TITLE:
FIRST FLOOR ELECTRICAL
PLAN-PART C

SHEET NUMBER:

E-103

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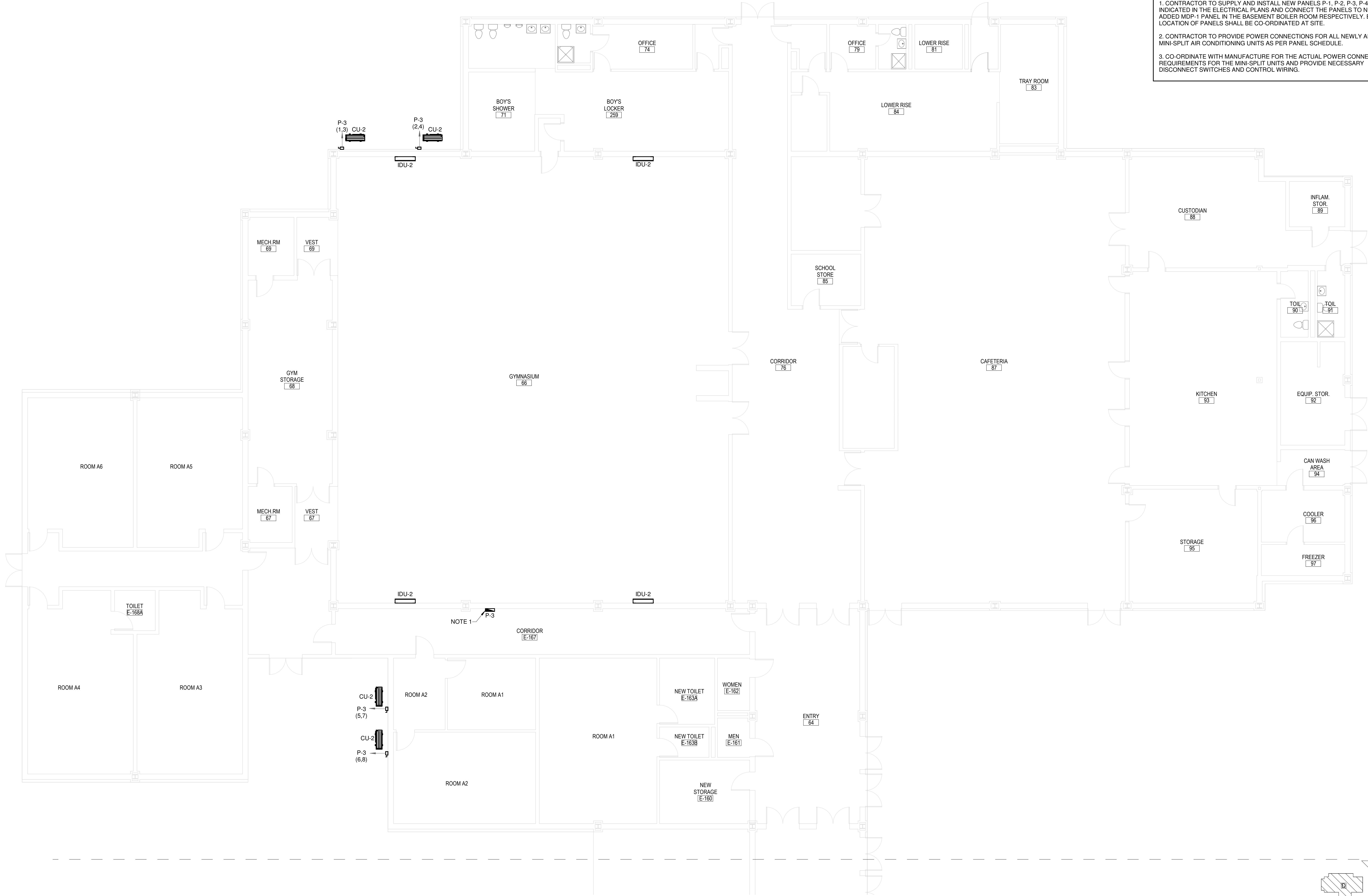


PROJECT:

FILE NO:	24103.01
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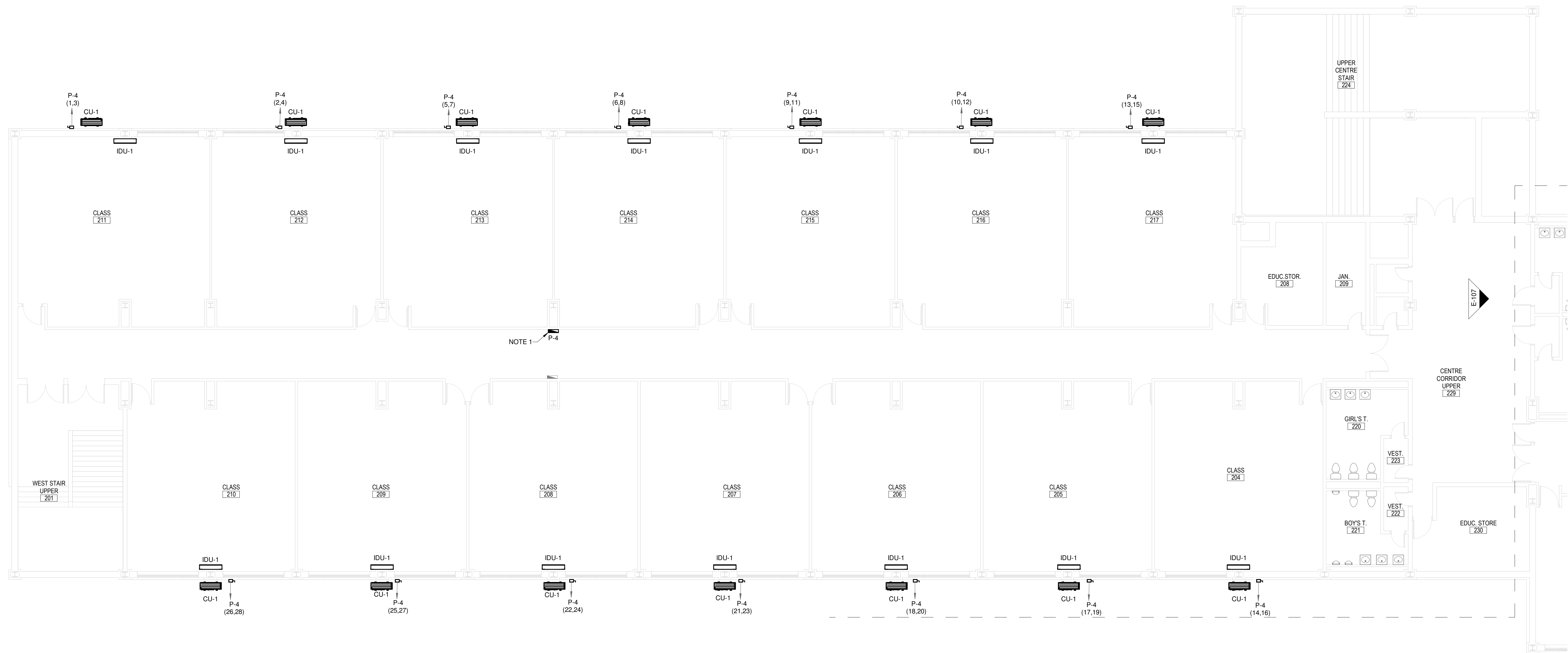
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SHEET NUMBER:

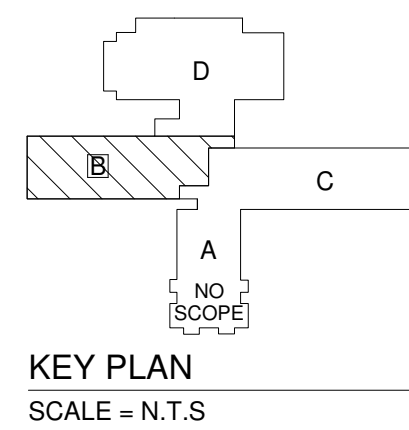


- NOTES**
1. CONTRACTOR TO SUPPLY AND INSTALL NEW PANELS P-1, P-2, P-3, P-4, P-5 AS INDICATED IN THE ELECTRICAL PLANS AND CONNECT THE PANELS TO NEWLY ADDED MDP-1 PANEL IN THE BASEMENT BOILER ROOM RESPECTIVELY. EXACT LOCATION OF PANELS SHALL BE CO-ORDINATED AT SITE.
 2. CONTRACTOR TO PROVIDE POWER CONNECTIONS FOR ALL NEWLY ADDED MINI-SPLIT AIR CONDITIONING UNITS AS PER PANEL SCHEDULE.
 3. CO-ORDINATE WITH MANUFACTURE FOR THE ACTUAL POWER CONNECTION REQUIREMENTS FOR THE MINI-SPLIT UNITS AND PROVIDE NECESSARY DISCONNECT SWITCHES AND CONTROL WIRING.

RUSSELL AND DAWSON INC. ARCHITECTURE & ENGINEERING 1111 Main Street, East Hartford, CT 06108 TEL: (860) 289-1100 FAX: (860) 289-3272 E-MAIL: rdd@russd.com	
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PROJECT: PUTNAM ELEMENTARY SCHOOL	
FILE NO: 24103.01	SCALE: AS NOTED
DATE: 07/10/2024	DRAWN BY: YP
CHECKED BY: MA	
SHEET TITLE: FIRST FLOOR ELECTRICAL PLAN-PART D	
SHEET NUMBER: E-104	



1 SECOND FLOOR ELECTRICAL PLAN - PART B (ELEMENTARY SCHOOL)
E-105 1/8" = 1'-0"



NOTES

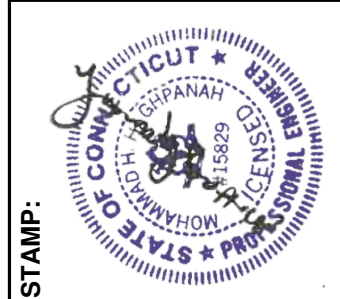
1. CONTRACTOR TO SUPPLY AND INSTALL NEW PANELS P-1, P-2, P-3, P-4, P-5 AS INDICATED IN THE ELECTRICAL PLANS AND CONNECT THE PANELS TO NEWLY ADDED MDP-1 PANEL IN THE BASEMENT BOILER ROOM RESPECTIVELY. EXACT LOCATION OF PANELS SHALL BE CO-ORDINATED AT SITE.

2. CONTRACTOR TO PROVIDE POWER CONNECTIONS FOR ALL NEWLY ADDED MINI-SPLIT AIR CONDITIONING UNITS AS PER PANEL SCHEDULE.

3. CO-ORDINATE WITH MANUFACTURE FOR THE ACTUAL POWER CONNECTION REQUIREMENTS FOR THE MINI-SPLIT UNITS AND PROVIDE NECESSARY DISCONNECT SWITCHES AND CONTROL WIRING.

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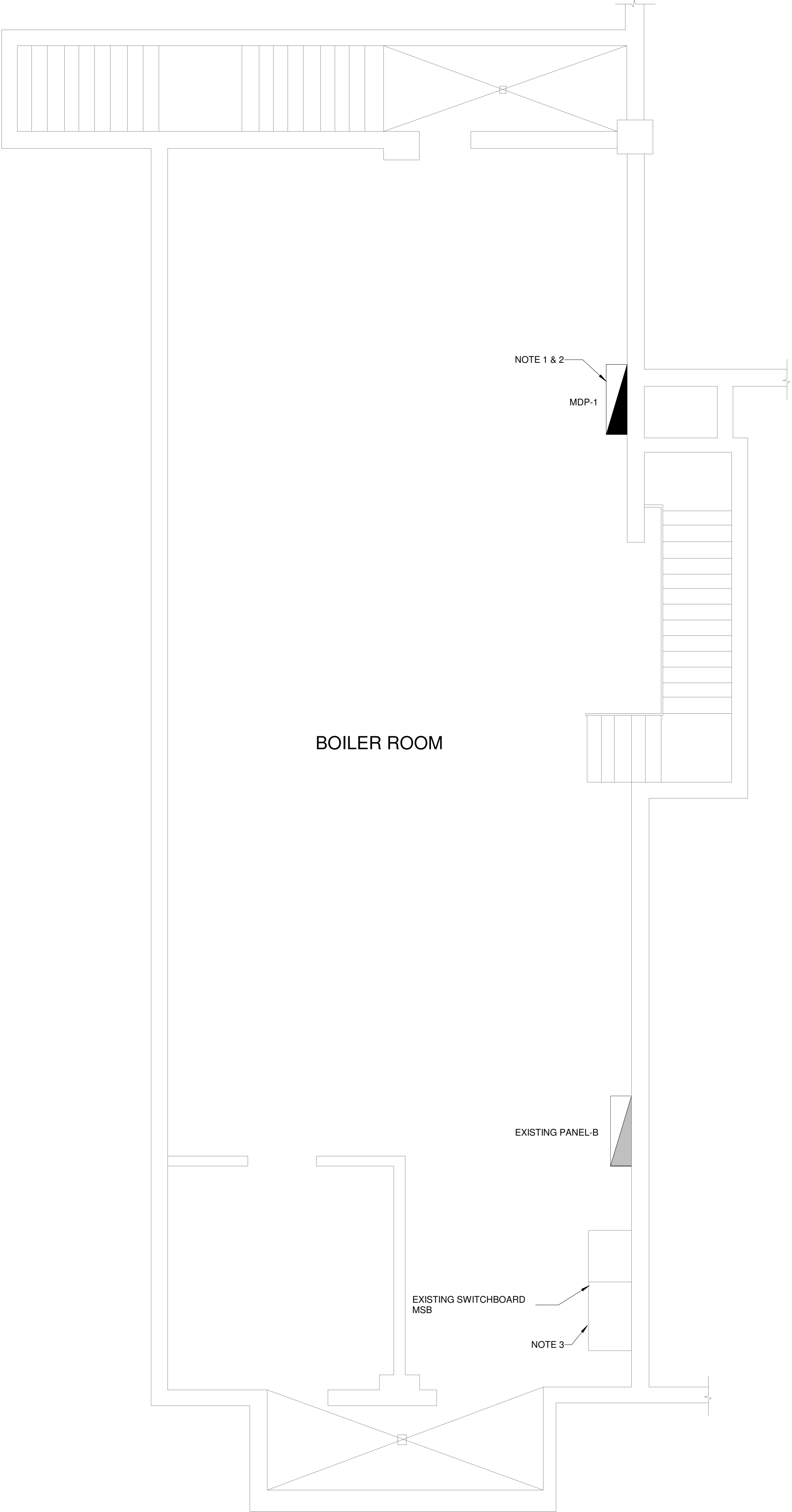
JECT: PUTNAM ELEMENTARY SCHOOL

33 WICKER ST., PUTNAM, CT 06280

FILE NO:	24103.01	PRO:
SCALE:	AS NOTED	
DATE:	07/10/2024	
DRAWN BY:	YP	
CHECKED BY:	MA	

SHEET TITLE:
SECOND FLOOR
ELECTRICAL PLAN-PART B

SHEET NUMBER:
E-105



1 BASEMENT BOILER ROOM ENLARGED ELECTRICAL PLAN - (ELEMENTARY SCHOOL)
E-107 1/4" = 1'-0"

NOTES

1. PROVIDE NEW PANEL - MDP-1 (600A, 208/120V, 3PH, 4W) IN THE BASEMENT BOILER ROOM AS INDICATED IN THE LAYOUT.
2. THE LOCATION OF MDP-1 PANEL IS INDICATIVE. CONTRACTOR TO CO-ORDINATE AT SITE AND LOCATE THE PANEL ACCORDINGLY.
3. CONTRACTOR TO ADD NEW 600A, 3P BREAKER IN EXISTING SPACE PROVISION (OUTGOING #11) OF MSB PANEL AND CONNECT NEW PANEL MDP-1 TO THE NEWLY ADDED BREAKER.



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NO.	DESCRIPTION	DATE	BY

PROJECT: PUTNAM ELEMENTARY SCHOOL
33 WICKER ST, PUTNAM, CT 06260

FILE NO:	24103.01
SCALE:	AS NOTED
DATE:	07/10/2024
DRAWN BY:	YP
CHECKED BY:	MA

SHEET TITLE:
BASEMENT BOILER ROOM
ELECTRICAL PLAN

SHEET NUMBER:
E-107