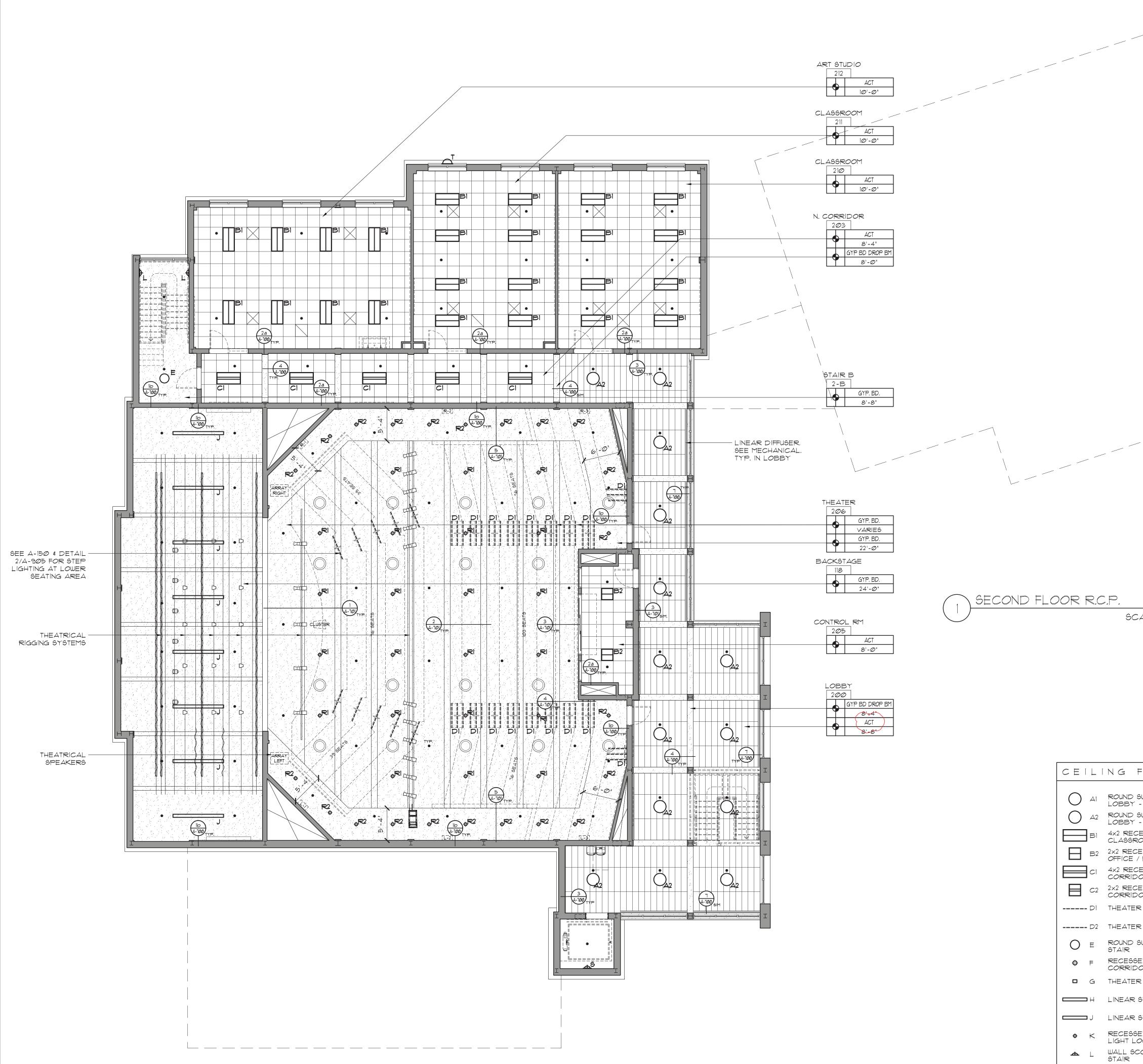


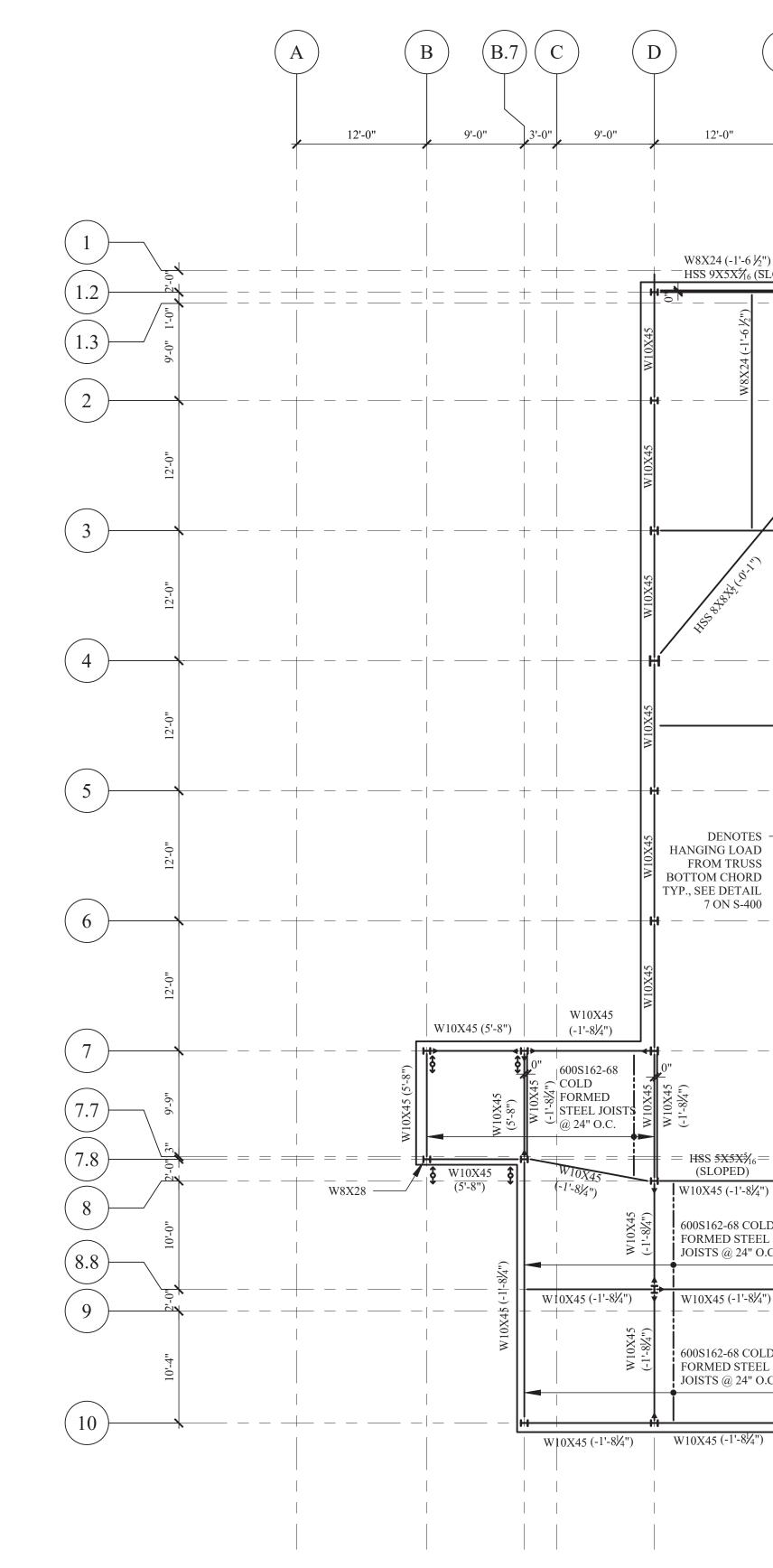
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SCALE: 1/8"=1'-0" NOTES: 1. SEE S-300 FOR TYPICAL STEEL DETAILS. 2. TOP OF STEEL ELEVATION IS 25'-0¹/₂". VALUE (X'-XX") BEHIND BEAM ID IS ELEVATION RELATIVE TO TYPICAL TOP OF STEEL ELEVATION. 3. VULCRAFT 1.5B22 METAL DECK TO SPAN BETWEEN ROOF JOISTS AND TRUSSES. 4. SEE S-500 AND S-501 FOR BRACED FRAME ELEVATIONS 5. SEE S-600 AND S-601 FOR BEAM REACTIONS FOR CONNECTION DESIGN BY STEEL FABRICATOR 6. DESIGN TRUSS FOR UPLIFT PRESSURE OF 19 PSF DUE TO WIND. DESIGN OF CFS IS BY DELEGATED ENGINEER PER NOTES ON S-002. 7. SEE S-601 FOR DRIFT SURCHARGE

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143 MAIN STREET NYACK, NY 10960 845-727-7793ROOFING CONSULTANT WATSKY ASSOCIATES
Project Title IONA PREPARATORY SCHOOL ADDITION AND ALTERATION TO THE PAUL VERNI FINE ARTS CENTER Project Address IONA PREPARATORY SCHOOL 255 Wilmot Road New Rochelle, NY 10804 Drawing Title
Scale Job No. Date 1618 04/03/2019 Drawn Drawn Peter Gisolfi Associates Architects Landscape Architects Landscape S66 Warburton Avenue Hastings on Hudson, NY 10706 914 478 Job No. Date Drawing No. S-103.00

MECHANICAL SPECIFICATIONS

1. GENERAL

- A. SCOPE INCLUDES WORK AT 255 WILMONT RD, NEW ROCHELLE, NY. THE OVERALL WORK SCOPE INCLUDES SPLIT AIR HANDLER UNITS, VRF AIR-CONDITIONING, VENTILATION, BOILER AND HEATING SYSTEMS.
- B. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF THE 2020 NEW YORK STATE BUILDING CODES, AND LOCAL BUILDING DEPARTMENT STANDARDS.
- C. PRIOR TO SUBMISSION OF THEIR FORMAL BID, THIS CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THE ENTIRE PROJECT INCLUDING MECHANICAL, ELECTRICAL AND PLUMBING.
- D. PRIOR TO SUBMISSION OF THIS BID, THIS CONTRACTOR SHALL VISIT THE JOB SITE IN ORDER TO ACQUAINT THEMSELVES WITH ACTUAL FIELD CONDITIONS AS IT RELATES TO THE SCOPE OF WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO THE SUBMISSION OF HIS BID. DISCREPANCIES NOT RESOLVED TO THE SATISFACTION OF THIS CONTRACTOR SHALL BE INCLUDED AS A WRITTEN DOCUMENT OF THE BID PACKAGE.
- E. ALL WORK SHALL BE INSTALLED IN A NEAT WORKMAN LIKE MANNER. ALL EQUIPMENT SHALL BE INSTALLED WITH ADEQUATE CLEARANCE FOR PROPER BALANCING, MAINTENANCE AND REPAIR OF THE EQUIPMENT.
- F. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF WORK AND EQUIPMENT. FINAL LOCATIONS TO BE COORDINATED WITH FIELD CONDITIONS.
- G. INSTALLATION OF ALL NEW EQUIPMENT, DEVICES, AND PIPING SHALL BE COORDINATED WITH ALL TRADES. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND GENERAL CONTRACTOR.
- H. THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION: AIA DOCUMENT A201-2007 AND THE ARCHITECT'S SPECIFICATIONS ARE INCLUDED AS PART OF THIS CONTRACT.
- ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF OWNER AND ENGINEER. THIS CONTRACTOR IS TO PROCURE MANUFACTURER REPRESENTATIVES FOR PROPER START UP AND OPERATION OF INSTALLED EQUIPMENT.
- 2. SCOPE OF WORK
 - A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND CONTRACTOR'S SURVEYS NECESSARY FOR A COMPLETE SAFE INSTALLATION OF THIS SCOPE OF WORK ALL WORK SHALL CONFORM TO THE 2020 NEW YORK STATE BUILDING CODE AND ALL AUTHORITIES HAVING JURISDICTION
 - B. PAY ALL FEES AND CHARGES FOR WORK INSTALLED, CERTIFYING COMPLIANCE WITH THE NEW YORK STATE BUILDING CODES AND AUTHORITIES HAVING JURISDICTION.
 - C. THIS CONTRACTOR SHALL PROCURE A LICENSED ENGINEER TO PERFORM ALL SIGN-OFF INSPECTIONS IN A TIMELY MANNER
 - D. GENERAL CONTRACTOR SHALL PROVIDE ON-SITE SUPERVISION OF ALL SUB-CONTRACTORS AND SUB-CONTRACTORS SHALL PROVIDE ON-SITE SUPERVISION OF ALL OF THEIR PERSONNEL. G.C. SHALL SCHEDULE AN ON-SITE CONSTRUCTION MEETING WITH ALL SUB-CONTRACTORS ON A WEEKLY BASIS AND AS NECESSARY TO RESOLVE ALL FIELD CONFLICTS.
 - E. ALL CONTRACTORS AND SUB-CONTRACTORS SHALL CARRY GENERAL LIABILITY INSURANCE AS WELL AS BONDING REQUIRED BY THE CLIENT, ALL INSURANCE REQUIREMENTS MUST BE CONFIRMED WITH CLIENT PRIOR TO BIDDING PROJECT.
 - F. CONTRACTOR TO FOLLOW ALL BUILDING REGULATIONS DURING DEMOLITION, CONSTRUCTION, TESTING AND SUBMISSION PHASES. NO WORK SHALL COMMENCE UNTIL CONTRACTOR HAS REVIEWED AND ACCEPTED BUILDING RULES & REGULATIONS.
 - G. GENERAL SCOPE OF WORK AS FOLLOWS:
 - GENERAL (NOTES APPLY TO ALL CONTRACTORS)
 - · REVIEW OF PROJECT DOCUMENTS AND VISIT TO JOB SITE PRIOR TO SUBMISSION OF BID.
 - · PROVIDE FULL SUBMITTAL AND SHOP DRAWINGS FOR ALL WORK.
 - · SUBMIT AS-BUILTS, TEST REPORTS AND EQUIPMENT MANUALS TO ENGINEER FOR REVIEW. · CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY
 - TESTING AND INSPECTIONS. · CONTRACTOR IS RESPONSIBLE TO FUNCTIONALLY TEST
 - SYSTEM TO ENSURE CONFORMANCE TO DESIGN DOCUMENTS AND PROPER OPERATION OF SYSTEM. · CONTRACTOR TO FOLLOW ALL BUILDING REGULATIONS
 - DURING CONSTRUCTION, TESTING AND SUBMISSION PHASES
 - · CONTRACTOR RESPONSIBLE FOR START-UP AND COMMISSIONING OF ALL EQUIPMENT. RETAIN MANUFACTURER REPRESENTATIVES AS NECESSARY.
 - · CONTRACTOR IS RESPONSIBLE TO INSTALL A WORKING SYSTEM AND ASSIST ALL TRADES TO ASSURE SYSTEM IS OPERATIONAL AND FUNCTIONS AS DESIGNED.

MECHANICAL CONTRACTOR

- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO DEMOLIGH ALL SYSTEMS AND EQUIPMENT AS INDICATED ON PLANS AND AS NECESSARY.
- · PROVIDE AND INSTALL NEW EQUIPMENT, PIPING, AND ALL OTHER ACCESSORIES AS SCHEDULED ON PLANS. • DUCTWORK, PIPING, HANGERS, EQUIPMENT, INSULATION
- AND ACCESSORIES AS SHOWN ON PLANS AND AS NECESSARY FOR A COMPLETE JOB.
- · BALANCE ALL AIR SYSTEMS AS SHOWN ON PLANS.
- · PROVIDE AND INSTALL FIRE DAMPER AND ACCESS DOORS IN ALL RATED WALLS AND AS INDICATED ON DESIGN DRAWINGS. CONFIRM RATING REQUIREMENTS WITH ARCHITECT.

ELECTRICAL CONTRACTOR

· ELECTRICAL POWER AND CONTROL WIRING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

GENERAL CONSTRUCTION CONTRACTOR

• PROVIDE ALL NECESSARY CUTTING, PATCHING, SEALING AND FIRESAFING. FOR COMPLETION OF SCOPE OF WORK.

3. SHOP DRAWINGS

- A. GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS ARE TO FACILITATE THE COORDINATION THE EXTENT OF WORK REQUIRED TO BE COMPLETED UNDER THIS CONTRACT. FAILURE TO EXAMINE ALL THE CONTRACT DOCUMENTS FOR THIS PROJECT WILL NOT RELIEVE THE CONTRACTOR OF HIS/HER RESPONSIBILITIES TO PERFORM THE WORK REQUIRED FOR A COMPLETE FULLY FUNCTIONAL AND SATISFACTORY INSTALLATION.
- B. SUBMIT TWO HARD PRINTS AND ONE DIGITAL PDF IN E-MAIL AND/OR CD OF SHEET METAL AND/OR PIPING SHOP DRAWINGS, CERTIFIED BY ALL TRADES THAT COORDINATION HAS BEEN ESTABLISHED. SUBMIT CERTIFIED EQUIPMENT CUTS WITH CONSTRUCTION WIRING DIAGRAMS AND AUTOMATIC TEMPERATURE CONTROL SHOP DRAWINGS.
- C. ALL BIDS ARE TO BE BASED ON EQUIPMENT SPECIFIED AND SCHEDULED. IF A SUBSTITUTION IS PROPOSED CUTS SHALL BE PROVIDED TO OWNERS/ENGINEERS HIGHLIGHTING THE SUBSTITUTION AND THE REASON FOR THE PROPOSED SUBSTITUTION. ALL SUBSTITUTIONS ARE SUBJECT TO OWNERS AND ENGINEERS APPROVAL. JMY SHALL BE COMPENSATED ON AN HOURS RATE BASIS FOR TIME SPENT REVIEWING SUBSTITUTE EQUIPMENT AND ANY TIME NECESSARY TO REVISE PLANS FOR FILING.
- D. ONLY-E-MAILED SUBMISSION SHALL NOT BE ACCEPTABLE.
- E. THIS CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL DRAWINGS ON A SCALE NOT LESS THAN 3/8"=
- F. SUBMIT SHOP DRAWINGS, EQUIPMENT SUBMITTALS WHICH SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: · DUCT LAYOUT AND APPURTENANCES
- EQUIPMENT LAYOUT
- CERTIFIED BALANCING REPORT
- EQUIPMENT
- DUCTWORK AND AIR HANDLERS • CONTROLS DRAWING
- G. JMY SHALL REVIEW AND COMMENT ON SUBMITTED SHOP DRAWING AND EQUIPMENT SUBMITTALS, SCAN THE SHOP DRAWINGS AND DISTRIBUTE VIA E-MAIL. COMMENTS ON LARGE SUBMITTALS WILL BE SUMMARIZED ON THE COVER SHEET AND THAT COVER SHEET WILL BE RETURNED.
- H. SHOP DRAWINGS SHALL INDICATE OTHER ELEMENTS LOCATED IN THE VICINITY OF THE DUCTWORK AND PIPING SYSTEM, SUCH AS: STRUCTURAL ELEMENTS, ELECTRICAL FIXTURES, CONDUITS, OTHER PIPING SYSTEMS, EQUIPMENT, APPLIANCES, FIXTURES, ETC.
- I. SUBMIT DUCT CONSTRUCTION STANDARDS BASED ON SMACNA
- 4. AS-BUILTS DRAWINGS AND OPERATING AND SERVICE MANUALS
 - A. AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL DEVELOP AS BUILT DRAWINGS ACCURATELY REFLECTING THE INSTALLATION OF THE COMPLETE SYSTEM, RECORDING ALL CHANGES FROM THE ORIGINAL DESIGN THAT OCCURRED DURING THE CONSTRUCTION PROCESS.
 - B. AFTER COMPLETION OF THE PROJECT THE CONTRACTOR SHALL FULLY INSTRUCT THE APPROPRIATE OWNERS PERSONAL ON THE OPERATIONS OF ALL SYSTEMS INSTALLED.
 - C. THE CONTRACTOR SHALL DEVELOP OPERATION AND SERVICE MANUALS CONSISTING OF ALL OPERATION PROCEDURES FOR THE WHOLE SYSTEM, INCLUDING ORIGINAL SYSTEM SETTINGS, ALL SERVICE REQUIREMENTS AND PROCEDURES, INCLUDING RECOMMENDED SERVICE PERIODS, ALL ORIGINAL EQUIPMENT SUBMITTALS WITH ENGINEERING DATA, ALL EQUIPMENT INSTALLATION MANUALS AND PARTS LISTS.
 - D. AS PART OF FINAL ACCEPTANCE OF INSTALLATION THE CONTRACTOR SHALL SUPPLY THE OWNERS WITH TWO COPIES (2) OF CONTRACT CLOSE OUT DOCUMENTS INCLUDING SHOP-DRAWINGS, AS BUILT DRAWINGS, OPERATION AND MAINTENANCE MANUALS, AIR BALANCING REPORTS SIGNED OFF BY A LICENSED BALANCER AND ALL APPLICABLE WARRANTY AND PRODUCT REGISTRATION INFORMATION. THIS SHALL BE PROVIDED IN A DIGITAL IN ADDITION TO A BINDER WITH LAMINATED SHEETS. IN ADDITION, PROVIDE A DIGITAL COPY TO THE ENGINEER ARCHITECT AND OWNER FOR THEIR RECORDS.

5. FINAL ACCEPTANCE, GUARANTEES AND WARRANTIES

- A. AS PART OF THE CONTRACT THE CONTRACTOR SHALL GUARANTEE AND SERVICE THE FINAL INSTALLATION FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION. (DEFINED BELOW)
- B. UP UNTIL FINAL ACCEPTANCE AND THE ONE YEAR GUARANTEE FOLLOWING, THE CONTRACTOR SHALL REPLACE OR REPAIR ANY EQUIPMENT OR MATERIAL FOUND TO BE DEFECTIVE AT THE CONTRACTORS EXPENSE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE SURROUNDING AREAS RELATED TO THE ISSUE. IF A PRODUCT UNDER WARRANTEE REQUIRES A REPAIR DURING THIS PERIOD, THE CONTRACTOR IS FULLY RESPONSIBLE FOR COORDINATING THE MANUFACTURER'S REMEDIATION WORK TO THE EQUIPMENT.
- C. FINAL ACCEPTANCE OF INSTALLATION SHALL BE CONFIRMED AFTER THE CONTRACTOR HAS INSTALLED AND BALANCED ALL SYSTEMS TO THE OWNERS/ENGINEERS APPROVAL, SUBMITTED AS BUILTS AND OPERATION AND MAINTENANCE MANUALS AND HAS OBTAINED ALL REQUIRED CERTIFICATES OF INSPECTIONS AND APPROVALS.
- D. FOR ALL APPLICABLE EQUIPMENT THE CONTRACTOR SHALL COMPLETE ALL WARRANTY AND PRODUCT REGISTRATION INFORMATION AND SUBMIT TO MANUFACTURERS. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH COPIES OF ALL WARRANTIES FOR THEIR RECORDS.

6. CONNECTIONS TO EXISTING WORK, REMOVAL AND RELOCATION

- A. PLAN INSTALLATION OF ALL NEW WORK INCLUDING CONNECTIONS TO EXISTING WORK TO ENSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING BUILDING FACILITIES. ALL REQUIRED SYSTEM SHUTDOWNS AFFECTING OTHER AREAS SHALL BE COORDINATED WITH THE BUILDING.
- B. CONNECT NEW WORK TO EXISTING WORK IN A NEAT AND APPROVED MANNER RESTORE EXISTING WORK WHICH WAS DISTURBED WHILE INSTALLING NEW WORK TO A CONDITION ACCEPTABLE TO THE OWNER.
- C. REMOVAL AND RELOCATION OF SOME EXISTING EQUIPMENT, OR PIPING WILL BE NECESSARY PROPER INSTALLATION OF NEW WORK. AL CONDITIONS HAVE NOT BEEN COMPLETELY DETAI DRAWINGS.

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- 7. CUTTING AND PATCHING
- A. ALL NECESSARY CUTTING CORE DRILLING AND PATCHING FOR THE INSTALLATION OF THE MECHANICAL WORK SHALL BE PERFORMED BY THIS CONTRACTOR
- B. COORDINATE ALL CUTTING AND PATCHING FOR INSTALLATION OF MECHANICAL EQUIPMENT WITH BUILDING OWNERS AND OTHER BUILDING TENANTS WHO WILL BE EFFECTED BY THE UDRK
- C. FIRE-STOPPING SHALL BE THE SOLE RESPONSIBILITY OF THIS CONTRACTOR ALL EXISTING AND NEW PENETRATIONS MUST BE PROPERLY FIRE-STOPPED WITH APPROVED FIRE-STOPPING SEALANT
- 8. HANGING REQUIREMENTS
- HANGERS SHALL ONLY BE HUNG DIRECTLY FROM STRUCTURAL STEEL WHERE HANGERS CANNOT BE SUPPORTED DIRECTLY FROM BUILDING STEEL ALTERNATE HANGING METHODS MAY ATTACH TO THE STRUCTURAL SLAB TO THE FOLLOWING
- A. HANGERS SUPPORTING LOADS OF MORE THAN 100 POUNDS MUST BE ATTACHED DIRECTLY TO THE BEAMS
- B. ATTACHMENT TO THE SLAB SHALL UTILIZE EXPANSION BOLTS.
- C. FIELD TESTS MUST BE PERFORMED UTILIZING THE ACTUAL EQUIPMENT PROPOSED FOR USE IN THE BUILDING.
- D. EACH HANGER SHALL BE ATTACHED TO A MOUNTING ANGLE WITH A MINIMUM DIMENSION OF 2 × 2 × 3/16. EACH ANGLE SHALL HAVE AT LEAST TWO SUPPORTS. SUPPORTS SHALL BE SPACED AT LEAST FIVE INCHES APART
- E. THE MINIMUM SIZE OF SUPPORTS SHALL BE 3/8 INCH. POWER AND POWDER ACTUATED FASTENERS WILL NOT BE PERMITTED. THE INTENTION IS TO PROVIDE SUPPORT WHICH IN EACH CASE, SHALL NOT WEAKEN OR UNDULY STRESS THE BUILDING CONSTRUCTION
- F. NO EQUIPMENT MAY BE HUNG OF WOOD CONSTRUCTION
- 9. PIPING AND TUBING
- WROUGHT-COPPER FITTINGS AND SILVER SOLDER BRAZED JOINTS.
- A. HOT WATER SUPPLY & RETURN: COPPER TYPE L, WROUGHT COPPER FITTINGS, SILVER SOLDERED-BRAZED
- B. HOT WATER SUPPLY & RETURN PIPING (IN-SLAB) AQUATHERM BLUE PIPE SDR 11 MF C. <u>REFRIGERANT</u> <u>PIPING:</u> COPPER TYPE ACR, WROUGHT
- COPPER FITTINGS, AWS FILLER BRAZED. D. <u>CONDENSATE</u> <u>PIPING</u>: TYPE L DRAWN-TEMPER COPPER TUBING, WROUGHT-COPPER FITTINGS AND SILVER SOLDER BRAZED.
- E. INSTALL DRAINS CONSISTING OF 3/4" TEE FITTINGS AND BALL VALVES, AND SHORT NPS 3/4" THREADED NIPPLE WITH CAP FOR ANY LOW POINTS IN THE SYSTEM OR ANY AREAS THAT MAY REQUIRE A DRAINAGE
- F. PIPING SHALL BE SUPPORTED WITH APPROVED CLEVIS HANGERS AND ADJOUTABLE THREADED RODS AND SUITABLE CLAMPS OR MEANS OF BOLTING TO THE BUILDING STRUCTURE MAXIMUM SPACING SHALL BE 8'-0". HANGERS FOR INSULATED PIPES SHALL FIT OVER OUTSIDE OF THE INSULATION AND SHALL BE PROVIDED WITH PROTECTIVE SADDLES. HANGERS SHALL BE MASON, OR APPROVED EQUAL
- G. PROVIDE DIELECTRIC FITTINGS BETWEEN ALL DIS-SIMILAR METALS.
- H. PVC OR CPVC ARE NOT ACCEPTABLE.
- 10. PIPE FITTINGS
- A. BRONZE FLANGES AND FLANGED FITTINGS: ASME BIG.24.
- B. FITTINGS: ANSI/ASME BIG.18 CAST COPPER OR ANSI/ASME BIG.22 SOLDER WROUGHT COPPER.
- C. JOINTS:
- A, BRAZED JOINTS: JOINTS SHALL BE MADE UP IN ACCORDANCE WITH RECOMMENDED PRACTICES OF THE MATERIALS APPLIED. APPLY 95/5 TIN AND ANTIMONY
- ON ALL COPPER PIPING. 6.50 MM (2 INCHES) AND SMALLER: SCREWED OR WELDED JOINTS.
- C. BUTT WELDING: AGME BIG.9 WITH THE SAME WALL THICKNESS AS CONNECTING PIPING.
- d.FORGED STEEL, SOCKET WELDING OR THREADED: ASME BI6.11
- e. SCREWED: 150 POUND MALLEABLE IRON, ASME BIG.3. 125 POUND CAST IRON, ASME BIG.4, MAY BE USED IN LIEU OF MALLEABLE IRON. BUSHING REDUCTION OF A SINGLE PIPE SIZE, OR USE OF CLOSE NIPPLES, IS NOT ACCEPTABLE.
- f. UNIONS: ASME BIG.39.
- g. BUTT WELDING: ASME BIG.9 WITH THE SAME WALL THICKNESS AS CONNECTING PIPING. ELBOWS SHALL BE LONG RADIUS TYPE, UNLESS OTHERWISE NOTED.
- j. WELDING FLANGES AND BOLTING: ASME B16.5
- D. FLANGE BOLTING: CARBON STEEL MACHINE BOLTS OR STUDS AND NUTS, ASTM A307, GRADE B.
- E. WELDED BRANCH AND TAP CONNECTIONS: FORGED STEEL WELDOLETS, OR BRANCHLETS AND THREADOLETS MAY BE USED FOR BRANCH CONNECTIONS UP TO ONE PIPE SIZE SMALLER THAN THE MAIN. FORGED STEEL HALF-COUPLINGS, ASME BIG.II MAY BE USED FOR DRAIN, VENT AND GAUGE CONNECTIONS.
- 11. VALVES
- A. ASBESTOS PACKING IS NOT ACCEPTABLE.
- B. ALL VALVES OF THE SAME TYPE SHALL BE PRODUCTS OF A SINGLE MANUFACTURER.
- C. VALVE 2-1/2" AND LEGS SHALL BE ALL BRONZE, THREADED OR SOLDER ENDS, VALVES ABOVE 2-1/2" SHALL BE IRON BODY BRONZE AND SHALL HAVE FLANGED OR BUTT-WELDED ENDS.
- D. SHUT-OFF VALVES:
- a. BALL VALVES (PIPE SIZES 1/2" TO 1-1/2"): SCREWED CONNECTIONS, BRASS OR BRONZE BODY WITH CHROME-PLATED BALL WITH FULL PORT AND TEFLON SEAT AT 600 PSIG, WORKING PRESSURE RATING WITH SINGLE UNION END AND HI-FLOW HOSE DRAIN CONNECTION: WEBSTORE SERIES 4043. PROVIDE STEM EXTENSION TO ALLOW 2" OF PIPE INSULATION WHERE APPLICABLE.

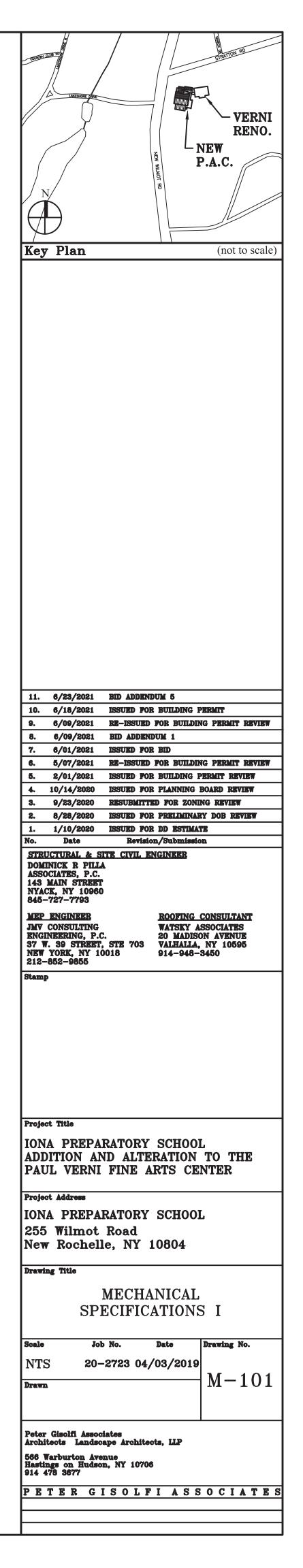
- 6. BALL VALVES (PIPE SIZES 1-1/2" TO 4"): MSS-SP 110, SOLDER CONNECTIONS, BRASS OR BRONZE BODY WITH CHROME-PLATED BALL WITH FULL PORT AND TEFLON SEAT AT 600 PSIG WORKING PRESSURE RATING. PROVIDE STEM EXTENSION TO ALLOW OPERATION WITHOUT INTERFERING WITH PIPE INGULATION.
- D. GATE: SHALL BE OF SOLID WEDGE DISK TYPE CLASS 150 TRAVELING STEM UNION BONNET. SIMILAR TO STOCKHAM B-180 OR EQUIVALENT.
- E. BUTTERFLY (2" AND ABOVE !: ONE PIECE BODY CONSTRUCTION HARD BACKED SEATS, TWO PIECE STAINLESS STEEL STEM, STEM BUSHINGS, O-RING STEM SEAL, EPDM SEAT, STREAMLINE DISK, EXTENDED NECK FOR PIPE INSULATION, 10 POSITION LEVER LOCK. HAMMOND MODEL 6000 SERIES MODEL 6211-01.
- F. CHECK: SWING TYPE, SCREWED CAPS, CLASS 150 BRONZE BODY, REGRIND BRONZE DISC, SCREWED ENDS. CHECK TO BE SIMILAR TO STOCKHAM MODEL B-321 OR EQUIVALENT.
- G. STRAINERS (THREADED, FLANGED OR BUTT WELDED ENDS) BRONZE BODY, SCREWED SCREEN RETAINER WITH CENTERED BLOW DOWN FITTED WITH PIPE PLUG, MINIMUM FREE AREA 2-1/2 TIMES INLET AREA PERFORATIONS 1/16. SCREEN WIRE GAUGE TO SUIT SIZE AND SERVICE. BOLT ON FLANGE WITH TAP FOR BLOW DOWN.
- H. 3-PORT HYDRONIC MIX VALVE: PROVIDE 3-PORT HYDRONIC MIX VALVE OF CAST BRONZE BODY WITH COPPER, BRASS AND POLYSULFONE INTERNAL PARTS AVAILABLE IN 3/4" AND I". THE ACTUATOR FOR THE PISTON SHALL HAVE LINEAL EXPANSION CHARACTERISTICS, AND SHALL BE COMPLETELY FILLED WITH TEMPERATURE SENSITIVE WAX, EACH POR SHALL HAVE A UNION TO ALLOW FOR EASY SERVICING. THE MIX VALVE SHALL BE CAPABLE OF DELIVERING WATER TEMPERATURES RANGING FROM 100° TO 180°F. VALVE IS SIMILAR TO WATTS MIXTEMP 180 OR SIMILAR.
- . BUTTERFLY MOTORIZED CONTROL VALVE: PROVIDE BUTTERFLY MOTORIZED CONTROL VALVE DESIGNED FOR USE IN ANGI CLASS 150 CHILLER PIPING SYSTEM. SEAT AND DISC DESIGN ENGURES POSITIVE VALVE SEALING WHILE MAINTAINING LOW SEATING TORQUE. VALVE SHALL BE ABLE TO CLOSE-OFF UP TO 50 PSI WITH A 200 PSI BODY RATING. VALVE IS APPLICABLE FOR 2-WAY APPLICATIONS. THIS VALVE HAS SPRING RETURN AND SHALL FUNCTION AS FAIL-CLOSE. THIS VALVE IS ABLE TO COMMUNICATE WITH PLC CONTROLLER AND IS SIMILAR TO BELIMO MODEL: HDU SERIES OR EQUIVALENT.
- J. THERMOMETERS: "ALL ANGLE" UNIVERSAL, SEPARATE SOCKET, INDUSTRIAL TYPE WITH #304 STAINLESS STEEL EXTENSION NECK WELLS, WEISS OR APPROVED EQUAL.
- K. PRESSURE GAUGES: BOURBON TUBE SPRING TYPE WITH 4-1/2 DIAL SIZE, BRONZE TUBE, ALUMINUM CASE, WEISS OR APPROVED EQUAL.
- L. DIELECTRIC FITTING: FLANGE UNION TYPE. RATING SHALL BE COMPATIBLE WITH SYSTEM PRESSURES. INSTALL ON ALL STEEL TO COPPER PIPE. EPCO MODEL #GX'
- M. VALVE TAGS: BRASS, MINIMUM 2" DIAMETER, 1/16" THICK, STAMPED INDICATING SERVICE AND VALVE NUMBER.
- 12. DUCTWORK
- A. DUCTWORK SHALL BE FABRICATED OF GALVANIZED STEEL AND INSTALLED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- B. ALL DUCT SEAMS SHALL BE SEALED WITH BENJAMIN FOSTER 30-02 DUCT SEALANT. DUCT SHALL BE SEALED AND TESTED TO CONFORM TO SMACNA AIR LEAKAGE TEST MANUAL, 2012 EDITION, MEDIUM AND HIGH PRESSURE SEAL CLASS "A", LOW PRESSURE SEAL CLASS "C".
- C. ACOUSTICALLY LINE DUCTWORK WITH MAT-FACED GLASS DUCT LINER, 15" THICK AND 1-1/2" LB OF DENSITY. ALL DUCT SIZES SHOWN ARE CLEAR NET INSIDE DIMENSIONS, INSTALL ACOUSTICALLY LINED DUCT WHERE SHOWN ON DRAWINGS AND/OR AS LISTED HERE:
- a. ALL DUCTWORK IN AREAS WITH EXPOSED CEILING WHERE DUCTWORK IS VISIBLE
- b. MINIMUM 15'0" FROM AIR CONDITIONING UNIT DISCHARGE AND INTAKE
- D. ALL SUPPLY DUCTS NOT ACOUSTICALLY LINED AND IN AREAS WITH DROP CEILING WHERE DUCT WILL NOT BE VISIBLE SHALL BE INSULATED WITH 2" THICK FOIL FACED VAPOR BARRIER FIBERGLASS WIRED IN PLACE.
- E. FLEXIBLE DUCT SHALL BE PRE-INSULATED CHLOROPRENE RUBBER COATED. CLASS FABRIC ZINC COATED METAL FLEXIBLE DUCTING. DUCT TO BE APPROVED EQUAL. FLEXIBLE DUCT SHALL ONLY BE USED FOR FINAL CONNECTIONS TO TERMINAL DEVICES. FLEXIBLE DUCT SHALL NOT EXCEED SIX (6) FEET TOTAL. FLEXIBLE DUCT SHALL ONLY BE UTILIZED IN AREAS WHERE IS WILL BE CONCEALED AND NOT VISIBLE.
- F. LOUVERED PLENUMS INCLUDING CONDENSER AIR INLET AND DISCHARGE, AND ECONOMIZER INTAKE AND EXHAUST SHALL BE INSULATED WITH I" THICK RIGID BOARD INSULATION, 61B DENSITY. BOARD TO HAVE FACTORY APPLIED WHITE FIRE RETARDING JACKET WITH MECHANICAL FASTENER.
- G. PROVIDE FLEX CONNECTIONS AT ALL FAN DISCHARGE FLANGES.
- H. VOLUME DAMPERS GALVANIZED STEEL, PER SMACNA STANDARDS. DAMPER ROD TO HAVE BEARING AT ONE END AND LEVER AND LOCK SCREW AT OTHER END.
- I. DUCTWORK ACCESS DOOR TO BE FABRICATED OF GALVANIZED STEEL, 14×14, LATCHED ALL AROUND SIMILAR TO VENTLOCK. PROVIDE INSULATED ACCESS DOORS FOR ACOUSTICALLY LINED DUCTWORK INSTALLATION.
- J. FUSIBLE LINK FIRE DAMPER, GALVANIZED STEEL FABRICATED WITH SHUTTER TYPE MECHANISM OUT OF AIRSTREAM, TYPE B OR APPROVED EQUAL. DAMPERS INSTALLED IN HORIZONTAL DIRECTION SHALL BE SPRING LOADED. FIRE DAMPERS TO BE INSTALLED IN DUCTS PENETRATING RATED WALLS AND ON OUTSIDE AIR LOUVERS, WHERE SHOWN ON DRAWING AND AS REQUIRED BY THE NEW YORK STATE BUILDING CODE.
- K CABLE OPERATED DAMPERS SHALL BE EXTRUDED ALUMINUM, SPRING LOADED WITH STEEL ROTARY CABLE ROTO-TWIST RT-100. CABLE OPERATED DAMPERS TO BE USED IN ALL IN-ACCESIBLE CEILING AND ALL FLOATING CEILINGS.
- 13. INSULATION
- A. FOR THE PURPOSES OF THIS SECTION, EXPOSED DEFINES DUCTS OR PIPES WHICH ARE VISIBLE, AS IN EQUIPMENT ROOMS, SHELTERED OUTDOORS IN SERVICE TUNNELS AND IN ROOMS WITHOUT CEILINGS. CONCEALED DEFINES DUCT OR

PIPING WHICH ARE NOT NORMALLY VISIBLE, AS IN PLENUMS, CHASES, SHAFTS, AND ABOVE CEILINGS. OUTDOORS DEFINES DUCT OR PIPING WHICH ARE EXPOSED TO RAIN, SNOW, AND/OR SUNLIGHT.

- B. ACCEPTABLE MANUFACTURERS OF THERMAL INSULATION PRODUCT ARE:
- a. ARMSTRONG
- **b.CERTAINTEED** C. JOHNS-MANVILLE
- d.KNAUF
- e. OWENS-CORNING f. ARMACELL
- C. ADHESIVES AND INSULATION MATERIALS: COMPOSITE FIRE AND SMOKE HAZARD RATING MAXIMUM 25 FOR FLAME SPREAD AND 50 FOR SMOKE DEVELOPED PER ASTM E 84. ADHESIVES SHALL BE WATERPROOF.
- D. IDENTIFICATION: PROVIDE COMPOSITE MATERIAL WITH LEGIBLY PRINTED MANUFACTURER'S NAME, NOMINAL THICKNESS, FLAME SPREAD, AND SMOKE DEVELOPED RATINGS PER NEPA 90A AND UL 181.
- F. CONCEALED DUCTS: PROVIDE RG MINIMUM INSULATION FOR ALL SUPPLY DUCTWORK. COVER WITH FLEXIBLE GLASS FIBER INSULATION, K-VALUE AT 15 DEGREE FAHRENHEIT MAXIMUM .29 BTU- IN/HR-SQ FT F, 1/2" PCF MINIMUM DENSITY, WITH FACTORY APPLIED, GLASS REINFORCED ALUMINUM FOIL AND KRAFT PAPER VAPOR BARRIER ALL-SERVICE JACKET. MAXIMUM PERMEABILITY OF VAPOR BARRIER TO BE .02 PERMS.
- G. ACOUSTIC LINING: CLASS I GLASS FIBER INSULATION WITH K-VALUE AT 15 DEGREE FAHRENHEIT MAXIMUM 24 BTU-IN/HR-6Q FT F. 3 PCF MINIMUM DENSITY, ABSOLUTE ROUGHNESS PER FT OF EXPOSED SURFACE NOT TO EXCEED .004 FT, COATED TO PREVENT FIBER EROSION AT AIR VELOCITIES UP TO 4,000 FPM. COMPLY WITH THE REQUIREMENTS OF ASTM C 1071.
- H. WHERE INSULATION REQUIRES SEALING AND TAPING, COMPLETE REQUIRED PROCEDURES AT THE SAME TIME INSULATING MATERIAL IS APPLIED TO ENSURE CLEAN SURFACES EXIST FOR PROPER ADHESION.
- SECURE FLEXIBLE INSULATION TO DUCTWORK SURFACES WITH ADHESIVE AND WELDED CUPPED HEAD PINS, 12" ON CENTER, BOTH WAYS. BUTT INSULATION AND SEAL JOINTS AND BREAKS WITH 2" OVERLAP OF FOIL ADHERED OVER JOINT.
- J. ALL PIPING AS FOLLOWED IN THE CHART BELOW: MOLDED GLASS FIBER WITH ALL SERVICE JACKET. OUTDOOR PIPING WITH 2 COATS OF BITOMASTIC

FLUID	NOMINAL PIPE OR TUBE SIZE			
TEMP.	<1"	1" TO <1½"	1½" TO <4"	4" TO <8"
<4Ø*F	1"	1"	1"	1"
40-60°F	1"	1"	1"	1"
105-140°F	1,5"	1,5"	1,5"	1,5"
141-2 <i>00°</i> F	1,5"	1,5"	2"	2"

- K. REFRIGERANT PIPING:
- a.INDOOR REFRIGERANT PIPING I" AP ARMAFLEX CLOSED-CELL ELASTOMERIC THERMAL INSULATION.
- b.OUTDOOR REFRIGERANT PIPING: 15" AP ARMAFLEX WITH PAINTED WB FINISH TO PROTECT PIPE.
- L. SUPPORTS UTILIZE ARMAFLEX INSULATED PIPE HANGERS AT ALL SUPPORTS.
- 14. EQUIPMENT
- A. PROVIDE ALL EQUIPMENT AND ACCESSORIES OF THE SIZES AND CAPACITIES AS SCHEDULED AND AS INDICATED ON THE DRAWINGS.
- B. INSTALL EQUIPMENT IN ACCORDANCE WITH APPROVED SHOP DRAWINGS, MANUFACTURERS INSTRUCTIONS AND ALL CODES AND REGULATIONS WHICH APPLY. CEILING MOUNTED EQUIPMENT, PROVIDE SUPPORTS WITH APPROVED ANCHORS SUSPENDED DIRECTLY FROM BUILDING STEEL STRUCTURE. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED ŤΟ ADEQUATELY SUPPORT THE LOAD.
- C. EQUIPMENT SHALL BE INSTALLED ON VIBRATION ISOLATORS IN ACCORDANCE WITH THE FOLLOWING SCHEDULE UNLESS OTHERWISE SPECIFIED (BASED ON MASON INDUSTRIES). a.FLOOR MOUNTED EQUIPMENT - TYPE SUPER WSW
- **b.CEILING MOUNTED EQUIPMENT- TYPE 30N** D. TAG ALL EQUIPMENT, COMPONENTS, CONTROL DEVICE VALVES AND PIPING. EQUIPMENT MARKERS SHALL BE
- ENGRAVED LAMINATED PLASTIC. INCLUDE CONTACT-TYPE PERMANENT ADHESIVE OR SELF-TAPPING, STAINLESS STEEL SCREWS. LABEL UNITS TO REFLECT BASE BUILDING NOMENCLATURE.



MECHANICAL SPECIFICATIONS

14.EQUIPMENT (CONTINUED)

- E. SIZE: 2-1/2"X4" FOR CONTROL DEVICES AND DAMPERS 1/2" LETTER SIZE OF DATA INCLUDES: a. NAME AND PLAN NUMBER
- **b.EQUIPMENT SERVICE**
- C.DESIGN CAPACITY F. VALVE TAGS, 1-1/2" ROUND: STAMPED OR ENGRAVED WITH 1/4" LETTER FOR PIPING SYSTEM ABBREVIATION AND 1/2" NUMBERS WITH NUMBERING SCHEME. 5/32" HOLE FOR 5-HOOK FAGTENER MATERIAL: 032 IN THICK BRASS OR 3/32" THK LAMINATED PLASTIC WITH 2 BLACK SURFACES AND WHITE INNER LAYER.
- G. LETTER SIZE, 1/2", DUCT MARKERS: ENGRAVED, COLOR-CODED LAMINATED PLASTIC. INCLUDE DIRECTION AND QUANTITY OF AIRFLOW AND DUCT SERVICE. INCLUDE PERMANENT ADHESIVE.
- H. MANUFACTURED PIPE MARKERS, PREPRINTED, COLOR-CODED, WITH LETTER INDICATING SERVICE AND SHOWING DIRECTION OF FLOW.

15. CLEANING, BALANCING, AND ADJUSTMENTS

- A. THOROUGHLY CLEAN ALL NEW AND REUSED APPARATUS (COILS, REPLACE FILTERS, ETC.) PRIOR TO PLACING IN OPERATION. CALIBRATE AND/OR REPLACE FAULTY CONTROLS ON EXISTING EQUIPMENT AS REQUIRED OR NOTED ON THE DRAWINGS, RESTORE FINISHED SURFACE, IF DAMAGED, & DELIVER ENTIRE INSTALLATION IN AN APPROVED CONDITION.
- B. THE CONTRACTOR SHALL TEST ALL MATERIALS AND EQUIPMENT FURNISHED OR INSTALLED UNDER THIS CONTRACT TO SEE THAT THEY OPERATE PROPERLY, QUALITY AND IN A SATISFACTORY MANNER AND ARE FREE FROM DEFECTS OF ANY DESCRIPTION.
- C. THE EQUIPMENT SHALL BE STARTED-UP, TESTED, ADJUSTED AND GENERALLY DE-BUGGED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION AND RECOMMENDATIONS.
- D. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEE THAT ALL MOTORS AND BEARINGS ARE PROPERLY LUBRICATED AS SOON AS THEY ARE CONNECTED BY THE ELECTRICAL CONTRACTOR AND BEFORE OPERATION OF THE EQUIPMENT.
- E. ALL DEFECTIVE MATERIALS AND WORKMANSHIP DISCLOSED BY THE TESTS, SHALL BE REMOVED AND REPLACED WITH NEW AND THE TEST REPEATED.
- F. AIR BALANCING WORK SHALL BE PERFORMED BY AN INDEPENDENT AABC CERTIFIED COMPANY, NOT ASSOCIATED WITH THE CONTRACTOR
- G. UPON COMPLETION OF ALL HVAC WORK, TEST, ADJUST BALANCE NEW AIR DISTRIBUTION SYSTEMS TO PROVIDE AIR QUANTITIES INDICATED WITHIN PLUS OR MINUS 5%.
- H. WATER SYSTEMS SHALL BE BALANCED TO PROVIDE FLOW QUANTITIES INDICATED ON THE DRAWINGS. MARK VALVE TAG OF EACH BALANCING VALVE TO INDICATE POSITION OF VALVE STEM. SUBMIT CERTIFIED REPORT INDICATING METHOD OF BALANCING AND PIPING LAYOUT WITH FLOW VALVES AND LOCATIONS INDICATED.
- I. WATER SYSTEMS SHALL BE TESTED AT 1-1/2 TIMES ITS NORMAL OPERATING PRESSURE FOR A PERIOD OF 24 HOURS PRIOR TO START-UP OF SYSTEM. LEAKS MUST BE REPAIRED AND SYSTEM RE-TESTED PRIOR TO COMMISSIONING.
- J. WATER SYSTEMS SHALL BE CHEMICALLY CLEANED BY AN INDEPENDENT PIPE CLEANING CONTRACTOR FOR A PERIOD OF NO LESS THAN 8-HOUR PERIOD, MECHANICAL CONTRACTOR SHALL INSTALL APPROPRIATE VALVES FOR PROPER CLEANING. COORDINATE WITH BASE BUILDING TO WITNESS THE CLEANING.
- 16. ACCESS PANELS
- A. CONTRACTOR TO PROVIDE AND INSTALL ACCESS PANELS FOR MAINTENANCE ON ALL EQUIPMENT ABOVE HARD CEILING OR BEHIND HARD WALLS. THIS INCLUDES BUT IS NOT LIMITED TO STRAINERS, SHUTOFF VALVES, CONTROL VALVES. COORDINATE SIZE AND LOCATION OF ALL ACCESS PANELS WITH FIELD CONDITIONS, ARCHITECT AND ENGINEER.
- 17. VOLUME DAMPERS
- A. DAMPERS SHALL BE CABLE (NOT CORD TYPE) ROTARY, TWIST TYPE TO TURN GEAR ON AIR FOIL TYPE DAMPER. FRAME AND BLADES SHALL BE CONSTRUCTED OF ALUMINUM WITH TOLERANCES TO PREVENT DAMPER HANG-UP.
- B. ROTO TWIST MODEL 100, DISTRIBUTED BY AIR DISTRIBUTION SYSTEMS.

18. DIFFUSERS, GRILLES AND REGISTER

- A. SUPPLY AIR REGISTERS SHALL BE TITUS TYPE OMNI, R-OMNI, FLOWBAR OR AS APPROVED.
- B. RETURN AIR GRILLES SHALL BE TITUS 350 RL OR AS APPROVED.
- C. DIFFUSERS AND REGISTERS SHALL BE COMPATIBLE WITH THE CEILING OR WALL CONSTRUCTION TO WHICH THEY ARE INSTALLED.
- D. FINISH SHALL BE WHITE UNLESS NOTED. FINISH TO BE APPROVED BY THE ARCHITECT AS SPECIFIED BY THE ARCHITECT.

19. HEAT PUMP VRF CONDENSING UNIT

A. GENERAL:

- a. THE CONDENSING UNIT SHALL BE FACTORY ASSEMBLED AND PRE-WIRED WITH ALL NECESSARY ELECTRONIC 4 REFRIGERANT CONTROLS. THE REFRIGERATION CIRCUIT OF THE CONDENSING UNIT SHALL CONSIST OF SCROLL COMPRESSORS, MOTORS, FANS, CONDENSER COIL ELECTRONIC EXPANSION VALVES, SOLENOID VALVES, 4-WAY VALVE, DISTRIBUTION HEADERS, CAPILLARIES, FILTERS, SHUT OFF VALVES, OIL SEPARATORS, SERVICE PORTS & REFRIGERANT REGULATOR. HIGH/LOW PRESSURE GAS LINE, LIQUID AND SUCTION LINES MUST BE INDIVIDUALLY INSULATED BETWEEN THE CONDENSING AND INDOOR UNITS.
- **b. THE SYSTEM WILL AUTOMATICALLY RESTART OPERATION** AFTER A POWER FAILURE AND WILL NOT CAUSE ANY SETTINGS TO BE LOST, THUS ELIMINATING THE NEED FOR REPROGRAMMING.
- C. THE UNIT SHALL INCORPORATE AN AUTO-CHARGING FEATURE.
- d. THE FOLLOWING SAFETY DEVICES SHALL BE INCLUDED ON THE CONDENSING UNIT, HIGH PRESSURE SENSOR AND SWITCH, LOW PRESSURE SENSOR, CONTROL CIRCUIT

FUSES, CRANKCASE HEATERS, FUSIBLE PLUG, OVERLOAD RELAY, INVERTER OVERLOAD PROTECTOR, THERMAL PROTECTORS FOR COMPRESSOR AND FAN MOTORS, OVER CURRENT PROTECTION FOR THE INVERTER AND ANTI-RECYCLING TIMERS.

- e. OIL RECOVERY CYCLE SHALL BE AUTOMATIC OCCURRING 2 HOURS AFTER START OF OPERATION AND THEN EVERY 8 HOURS OF OPERATION. THE CONDENSING UNIT WILL BE FACTORY CHARGED WITH R-4104
- F. THE SYSTEM MUST BE INSTALLED BY A FACTORY TRAINED CONTRACTOR/DEALER. THE BIDDERS SHALL BE REQUIRED TO SUBMIT TRAINING CERTIFICATION PROOF WITH BID DOCUMENTS.
- g.UNIT TO COME WITH A ONE (1) YEAR WARRANTY ON ALL MATERIAL AND WORKMANSHIP, AND A SIX (6) YEAR EXTENDED WARRANTY ON COMPRESSORS.
- h. THE SYSTEM WILL BE PRODUCED IN AN ISO 9001 AND 150 14001 FACILITY, STANDARDS SET BY THE INTERNATIONAL STANDARD ORGANIZATION (ISO). THE SYSTEM SHALL BE FACTORY TESTED FOR SAFETY AND FUNCTION.
- 1. ADVANCED DIAGNOSTICS SYSTEMS SHALL INCLUDE A SELF DIAGNOSTIC, AUTO-CHECK FUNCTION TO DETECT A MALFUNCTION AND DISPLAY THE TYPE AND LOCATION.
- B. UNIT CABINET:
- a. THE CONDENSING UNIT SHALL BE COMPLETELY WEATHERPROOF AND CORROGION RESISTANT. THE UNIT SHALL BE CONSTRUCTED FROM RUST-PROOFED MILD STEEL PANELS COATED WITH A BAKED ENAMEL FINISH.
- C. FAN: a. THE CONDENSING UNIT SHALL CONSIST OF ONE OR MORE PROPELLER TYPE, DIRECT-DRIVE 350 OR 150 W FAN MOTORS THAT HAVE MULTIPLE SPEED OPERATION VIA A DC (DIGITALLY COMMUTATING) INVERTER.
- 6. THE CONDENSING UNIT FAN MOTOR SHALL HAVE MULTIPLE SPEED OPERATION OF THE DC INVERTER TYPE
- C. THE FAN MOTOR SHALL HAVE INHERENT PROTECTION AND PERMANENTLY LUBRICATED BEARINGS AND BE MOUNTED.
- d. THE FAN MOTOR SHALL BE PROVIDED WITH A FAN GUARD TO PREVENT CONTACT WITH MOVING PARTS. D. CONDENSER COIL:
- a. THE CONDENSER COIL SHALL BE MANUFACTURED FROM COPPER TUBES EXPANDED INTO ALUMINUM FINS TO FORM A MECHANICAL BOND.
- b. THE HEAT EXCHANGER COIL SHALL BE OF A WAFFLE LOUVER FIN AND RIFLED BORE TUBE DESIGN TO ENSURE HIGH EFFICIENCY PERFORMANCE.
- C. THE HEAT EXCHANGER ON THE CONDENSING UNITS SHALL BE MANUFACTURED FROM HI-X SEAMLESS COPPER TUBE WITH N-SHAPE INTERNAL GROOVES MECHANICALLY BONDED ON TO ALUMINUM FING TO AN E-PASS DESIGN.
- d. THE FING ARE TO BE COVERED WITH AN ANTI-CORROGION ACRYLIC RESIN AND HYDROPHILIC FILM TYPE EI.
- E. COMPRESSOR:
- a. THE INVERTER SCROLL COMPRESSORS SHALL BE VARIABLE SPEED (PVM INVERTER) CONTROLLED WHICH IS CAPABLE OF CHANGING THE SPEED TO FOLLOW THE VARIATIONS IN TOTAL COOLING AND HEATING LOAD AS DETERMINED BY THE SUCTION GAS PRESSURE AS MEASURED IN THE CONDENSING UNIT. IN ADDITION, SAMPLINGS OF EVAPORATOR AND CONDENSER TEMPERATURES SHALL BE MADE SO THAT THE HIGH/LOW PRESSURES DETECTED ARE READ EVERY 20 SECONDS AND CALCULATED.
- 6. THE INVERTER DRIVEN COMPRESSOR IN EACH CONDENSING UNIT SHALL BE OF HIGHLY EFFICIENT RELUCTANCE DC (DIGITALLY COMMUTATING), HERMETICALLY SEALED SCROLL "G2-TYPE" WITH A MAXIMUM SPEED OF 7,980 RPM.
- C. NEODYMIUM MAGNETS SHALL BE ADOPTED IN THE ROTOR CONSTRUCTION TO YIELD A HIGHER TORQUE AND EFFICIENCY IN THE COMPRESSOR INSTEAD OF THE NORMAL FERRITE MAGNET TYPE. AT COMPLETE STOP OF THE COMPRESSOR, THE NEODYMIUM MAGNETS WILL POSITION THE ROTOR INTO THE OPTIMUM POSITION FOR A LOW TORQUE START.
- d. THE CAPACITY CONTROL RANGE SHALL BE AS LOW AS 4% TO 100%.
- e. EACH COMPRESSOR SHALL BE EQUIPPED WITH A CRANKCASE HEATER, HIGH PRESSURE SAFETY SWITCH. AND INTERNAL THERMAL OVERLOAD PROTECTOR.
- F. OIL SEPARATORS SHALL BE STANDARD WITH THE EQUIPMENT TOGETHER WITH AN INTELLIGENT OIL MANAGEMENT SYSTEM.
- g. THE COMPRESSOR SHALL BE SPRING MOUNTED.

20. FAN COIL UNITS

- A. PROVIDE AND INSTALL HORIZONTAL OR VERTICAL, COOLING FAN COIL UNITS.
- B. COOLING COIL SHALL BE CONSTRUCTED OF COPPER TUBES AND ALUMINUM PLATE TYPE FINS. COIL SHALL BE SET IN STAINLESS STEEL DRAIN PAN WITH FLOAT SWITCH TO DE-ENERGIZE UNIT UPON A HIGH WATER CONDITION.
- C. CABINET SHALL BE CONSTRUCTED OF GALVANIZED STEEL WITH THERMAL/ACOUSTICAL INSULATION ON REMOVABLE PANELS.
- D. FIELD INSTALL PLEATED FILTER WITH 20% ASHRAE EFFICIENCY RATING.
- E. UNITS SHALL BE PROVIDED IN SIZES AS SCHEDULED.
- 22. THERMOSTATS AND SENSORS (COOLING/HEATING)
- A. NEW THERMOSTATS SHALL BE PROGRAMMABLE THERMOSTAT CAPABLE OF ALL REQUIRED FUNCTIONS TO MEET THE SEQUENCE OF OPERATION.
- B. NEW SENSORS SHALL BE COMPATIBLE FOR TIE IN TO MANUFACTURER WALL CONTROLLER.
- C. THERMOSTAT SHALL BE LCD, 1-DAY PROGRAMMABLE, PROPORTIONAL INTEGRAL CONTROL WITH 2 OCCUPIED/UNOCCUPIED PERIODS PER DAY.

23. BOILER

- A. PROVIDE AND INSTALL NATURAL GAS BOILER AS SPECIFIED ON PLANS.
- B. THE ENTIRE BOILER SYSTEM AND ITS INSTALLATION SHALL CONFORM TO THE MANUFACTURER'S INSTRUCTIONS, APPLICABLE LOCAL, STATE AND FEDERAL CODES AND

ASSOCIATED NATIONAL BOARD REQUIREMENTS.

- C. BOILERS MUST BE FULLY FACTORY TEST FIRED PRIOR TO SHIPMENT, MANUFACTURER SHALL SUPPLY COPIES OF THE TEST FIRE REPORT, INCLUDING FUEL/AIR SETTINGS AND COMBUSTION TEST RESULTS.
- D. HEAT EXCHANGER, PRESSURE VESSEL AND CONDENSATION COLLECTION BASIN SHALL CARRY A 10 YEAR WARRANTY AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP AND FAILURE DUE TO THERMAL SHOCK.
- E. THE BOILER SHALL BE CONSTRUCTION AND STAMPED IN ACCORDANCE WITH SECTION IV OF THE ASME CODE OF LOW PRESSURE HEATING BOILERS WITH A MAXIMUM WATER WORKING PRESSURE OF 160 PSIG.
- F. BOILER(S) SHALL BE 84+% MINIMUM AHRI CERTIFIED THERMAL EFFICIENT AS REQUIRED BY BTS 2000.
- G. BOILER SHALL BE CAPABLE OF FULL MODULATION FIRING WITH A TURN DOWN OF UP TO 5 TO 1.
- H. DESCRIPTION: BOILER SHALL BE NATURAL GAS FIRED AND VERTICAL WATER TUBED DESIGN. THE BOILER SHALL BE BUILT ON A STEEL BASE, INCLUDING INSULATED JACKET, FLUE-GAS VENT, COMBUSTION AIR INTAKE CONNECTION, WATER SUPPLY, RETURN, AND CONDENSATE DRAIN CONNECTIONS, AND CONTROLS.
- I. HEAT EXCHANGER: THE HEAT EXCHANGER SHALL BEAR THE ASME "H" STAMP FOR 160 PSI WORKING PRESSURE AND SHALL BE NATIONAL BOARD LISTED. THE HEAT EXCHANGER SHALL BE A "FIN TUBE" DESIGN WITH 1/2" I.D. STRAIGHT COPPER TUBES HAVING EXTRUDED INTEGRAL FINS SPACED SEVEN FINS PER INCH.
- J. BURNER: NATURAL GAS, FORCED DRAFT SINGLE BURNER PREMIX DESIGN. THE BURNER SHALL BE HIGH TEMPERATURE STAINLESS STEEL
- K. BLOWER: BOILER SHALL BE EQUIPPED WITH A PULSE WIDTH MODULATING BLOWER SYSTEM TO PRECISELY CONTROL THE FUEL/AIR MIXTURE TO PROVIDE MODULATING BOILER FIRING RATES FOR MAXIMUM EFFICIENCY.
- L. GAS TRAIN: THE BOILER SHALL BE SUPPLIED WITH A GAS TRAIN DESIGNED WITH NEGATIVE PRESSURE REGULATION AND SHALL BE CAPABLE OF A MINIMUM 5:1 TURNDOWN.
- M. CASING: a. THE JACKET SHALL BE IS GAUGE PRE-PRIMED AND PAINTED STEEL JACKET.
- b. THE INSULATION SHALL BE A MINIMUM 1/2 INCH THICK, MINERAL FIBER INSULATION SURROUNDING THE HEAT EXCHANGER.
- O. ELECTRICAL POWER: SINGLE POINT FIELD POWER CONNECTION SHALL HAVE FACTORY INSTALLED AND FACTORY WIRED SWITCHES, MOTOR CONTROLLERS, TRANSFORMERS, AND OTHER ELECTRICAL DEVICES NECESSARY AND SHALL PROVIDE A SINGLE POINT FIELD POWER CONNECTION TO THE BOILER.
- P. TESTS AND INSPECTIONS: PERFORM INSTALLATION AND STARTUP CHECKS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
- Q. PERFORMANCE TESTS: ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO INSPECT COMPONENT ASSEMBLIES AND EQUIPMENT INSTALLATIONS, INCLUDING CONNECTIONS, AND TO CONDUCT PERFORMANCE TESTING.
- R CONTROL: BOILER CONTROLS SHALL FEATURE A STANDARD, FACTORY INSTALLED 8" LCD SCREEN DISPLAY WITH THE FOLLOWING STANDARD FEATURES:
- a BOILER SHALL CALCULATE THE SET POINT USING A FIELD INSTALLED, FACTORY SUPPLIED OUTDOOR SENSOR AND AN ADJUSTABLE RESET CURVE.
- **b.BOILER SHALL ENERGIZE ANY PUMP IT CONTROLS FOR** AN ADJUSTABLE TIME IF THE ASSOCIATED PUMP HAS BEEN OFF FOR A TIME PERIOD OF 24 HOURS.
- C. BOILER SHALL MAKE THE DOMESTIC HOT WATER CALL FOR HEAT A PRIORITY OVER ANY SPACE HEATING CALL AND ADJUST THE BOILER SET POINT TO THE DOMESTIC HOT WATER BOILER SET POINT.
- d.BOILER SHALL HAVE A PC PORT ALLOWING THE CONNECTION OF PC BOILER SOFTWARE.

24. PUMPS

- A. PROVIDE AND INSTALL NEW VERTICAL PUMPS
- B. PUMP CASING SHALL BE CONSTRUCTED OF ASTM A48 CLASS 30 CAST IRON. THE PUMP CASING SHALL BE RATED FOR 250 PSI WORKING PRESSURE.
- C. THE IMPELLER SHALL BE ASTM B584-836/875 BRONZE AND HYDRAULICALLY BALANCED. THE IMPELLER SHALL BE DYNAMICALLY BALANCED TO ANSI GRADE GG.3 AND SHALL BE FITTED TO THE SHAFT WITH A KEY.
- D. ALL PUMPS SHALL BE FITTED WITH A DISCHARGE MULTI-PURPOSE BALANCING VALVE OR OTHER MEANS OF PROVIDING SYSTEM BALANCE, ISOLATION, AND CHECK FEATURE FOR REVERSE FLOW. THE VALVE SHALL BE STRAIGHT OR ANGLE PATTERN
- E. THE PUMP SHALL HAVE A FACTORY INSTALLED VENT/FLUSH LINE TO INSURE REMOVAL OF TRAPPED AIR FROM THE CASING AND MECHANICAL SEAL COOLING.
- F. PROVIDE MANUFACTURER'S STANDARD WARRANTY ON ALL PUMPS.
- 25. EXPANSION TANK (BLADDER TYPE)
- A. PROVIDE AND INSTALL NEW EXPANSION TANK THAT IS CONSTRUCTION: WELDED STEEL, DESIGNED, TESTED AND STAMPED IN ACCORDANCE WITH ASME (BPY CODE SEC VIII, DIV 1) SUPPLIED WITH NATIONAL BOARD FORM U-1, RATED FOR PROPER SYSTEM WORKING PRESSURE, WITH FLEXIBLE SEAMLESS HEAVY DUTY BUTYL RUBBER DIAPHRAGM. DIAPHRAGM SHALL BE ABLE TO ACCEPT THE PARTIAL VOLUME OF THE EXPANSION TANK.
- B. SYSTEM CONNECTION WILL BE VIA A 3/4 INCH NPT CONNECTION ON THE TOP OF THE TANK. A SCHRADER VALVE FITTING SHALL BE INSTALLED AT THE BOTTOM OF THE TANK TO ALLOW EXTERNAL PRESSURIZATION OF THE BLADDER.
- C. PROVIDE TANK AS SCHEDULED ON PLAN

26. AIR SEPARATOR

- A. PROVIDE AND INSTALL NEW AIR REMOVAL DEVICE THAT IS CONSTRUCTED OF STEEL AND SHALL BE DESIGNED, FABRICATED AND STAMPED PER ASME SECTION VIII DIVISION
- B. THE UNIT SHALL BE PAINTED WITH ONE COAT OF RED OXIDE PRIMER.

- 27. FLUE PIPE
- A. PROVIDE AND INSTALL FLUE AS FOLLOWS:
- B. DURAVENT POLYPRO SYSTEM
- C. INSTALL FLUE WITH POSITIVE SLOPE UPWARDS FROM APPLIANCES.
- D. PROVIDE ALL NECESSARY MANUFACTURER FLUE FITTINGS FOR A COMPLETE INSTALLATION.
- E. FLUE INSTALLATION TO MEET ALL REQUIREMENTS OF THE 2020 NEW YORK STATE FUEL AND GAS CODE AND ALL OTHER APPLICABLE CODES.

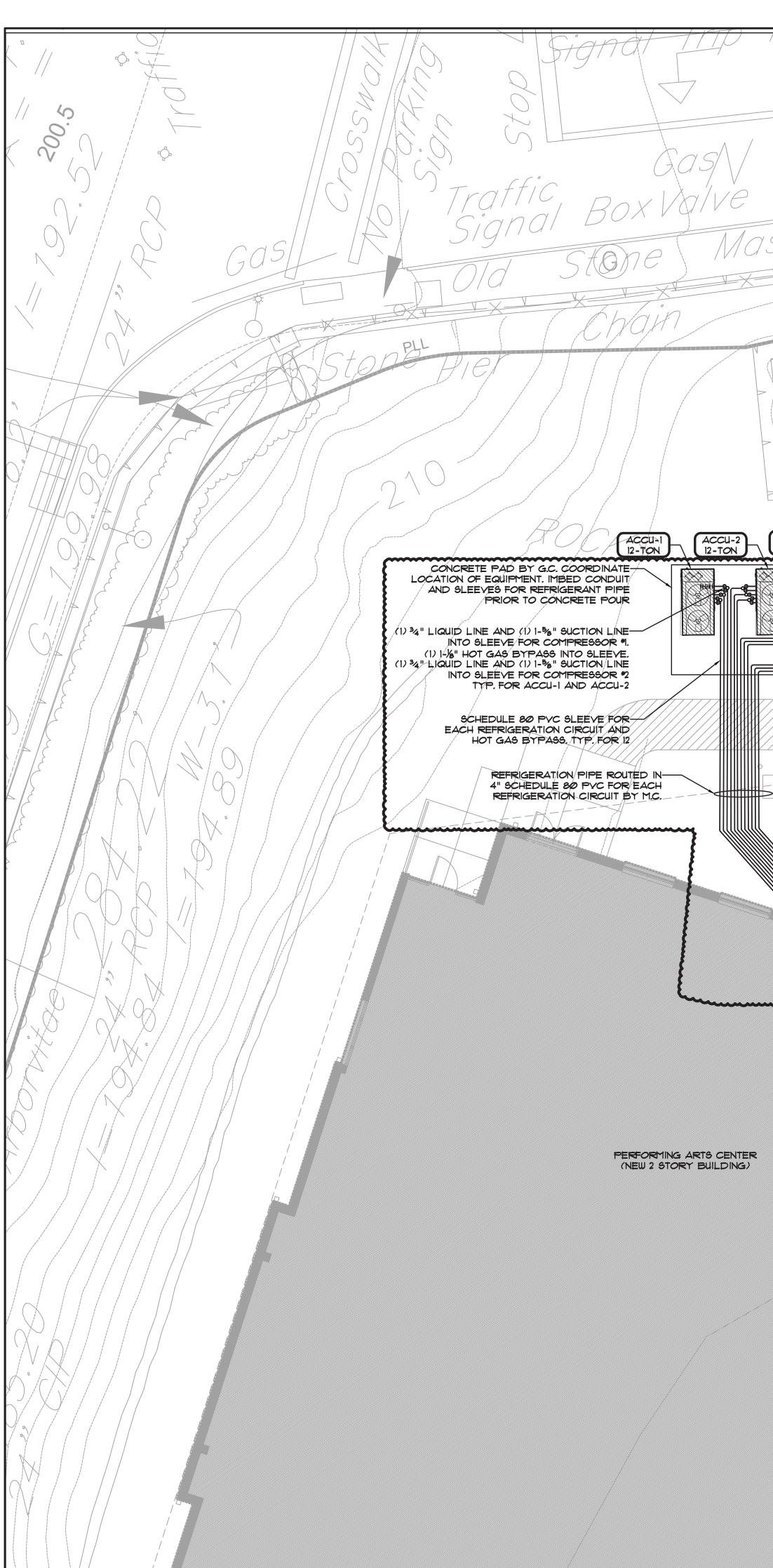
28. LABELING

A. LABEL ALL PIPE EVERY 20 FT.

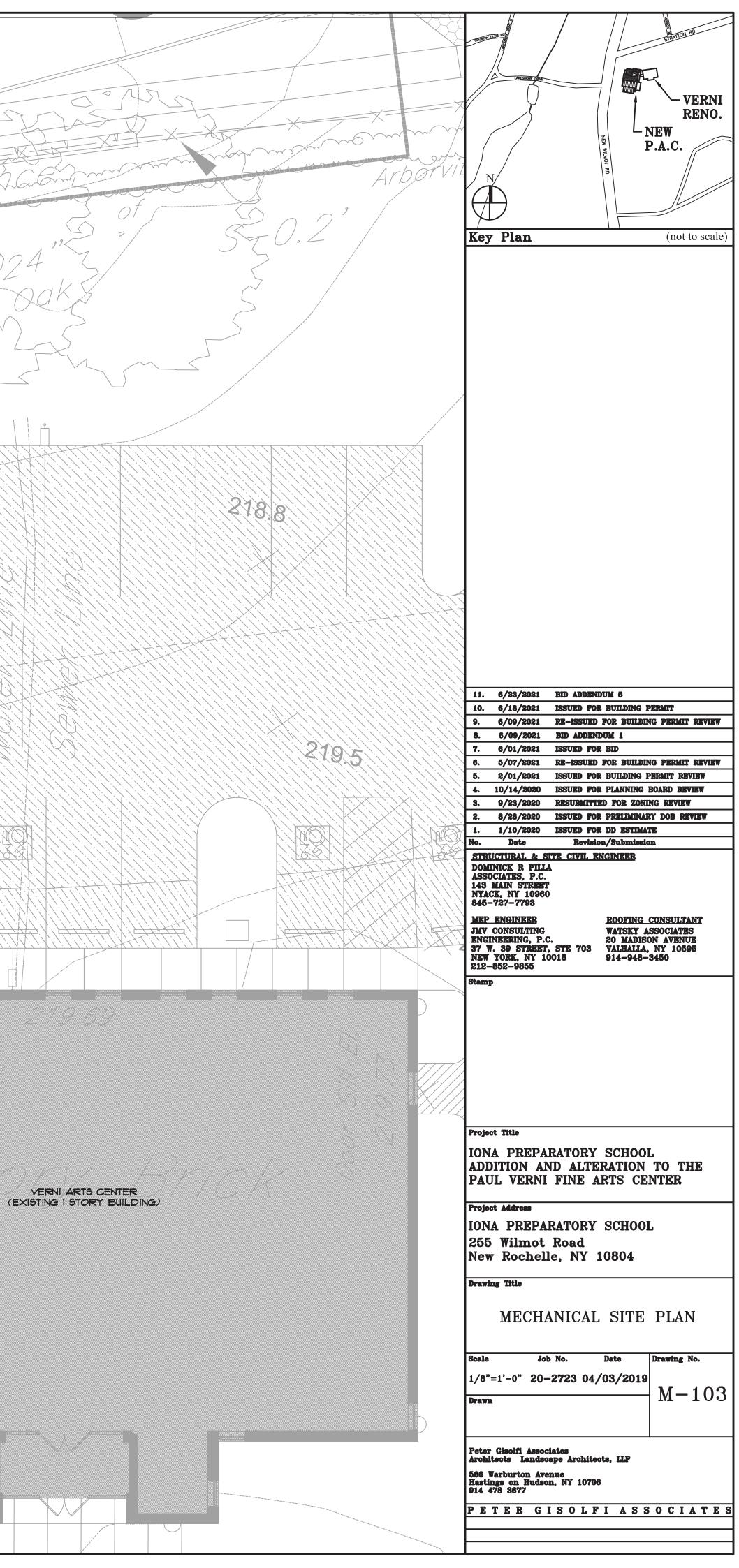
- B. LABEL ALL RATED WALLS THAT PIPE PASSES THROUGH
- C. TAG ALL VALVES AND PROVIDE VALVE TAG

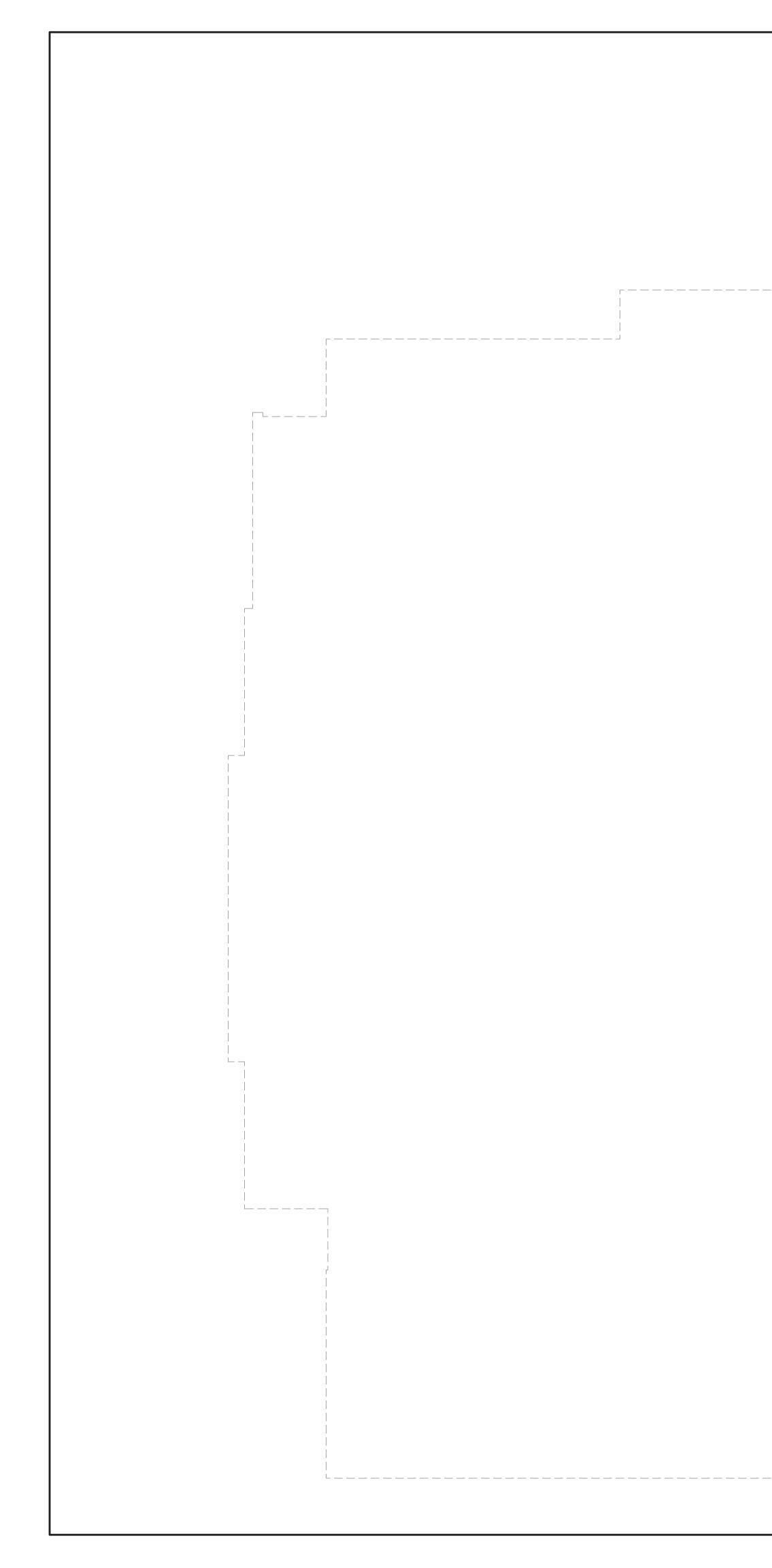
	HVAC SY	MBOL LIST	
	EXISTING DUCTWORK	HWS	NEW HOT WATER SUPPLY PIPE
	EXISTING DUCTWORK OR HVAC EQUIPMENT TO BE REMOVED		NEW HOW WATER RETURN PIPE
	NEW DUCTWORK	NO	NORMALLY OPEN
		NC	NORMALLY CLOSED DIRECTION OF FLOW
	NEW ACOUSTICALLY LINED DUCTWORK		PIPE UP PIPE DOWN
	EXISTING HYAC EQUIPMENT		PIPE CONTINUATION
₽@G	NEW HYAC EQUIPMENT	، سر	
	DUCT UP	•	CONNECT TO EXISTING
	DUCT DOWN	י ר יי ויוסׂויי	BALL VALVE
12×6	12" WIDE X 6" HIGH DUCT		BUTTERFLY VALVE
Ą	AIR FLOW DIRECTION		GATE VALVE
(25Ø)	BALANCE TO 250 CFM	⊶&→	TWO WAY CONTROL VALVE
	CEILING DIFFUSER	<u>⊷&</u> →	THREE WAY CONTROL VALVE
	WALL GRILLE OR LINEAR BAR	⊢⊼⊣	CHECK VAVLE
	RETURN GRILLE	<u></u> ₩ <u>+</u> +	STRAINER
	FIRE DAMPER / ACCESS DOOR	ן יינו	TEMPERATURE GAUGE
FSD/AD	FIRE SMOKE DAMPER / ACCESS DOOR		PRESSURE GAUGE
	MOTORIZED DAMPER	es]	BALL SHUTOFF AND GAUGE PORT / DRAIN
	VOLUME DAMPER	TS / FS	SENSOR $T = TEMPERATURE$ F = FLOW
P	DUCT DETECTOR		WATER PRESSURE REDUCTION VALVE
	CONDENSATE PUMP	₽_ _{Db} -d	DIFFERENTIAL PRESSURE SENSOR
<u>م</u> ب	LEAK DETECTOR	⊷≜⊸	AIR SEPARATOR
	EXISTING AIR HANDLER	Ť	AIR VENT
	NEW WALL MOUNTED VRF AIR HANDLER	<u> </u>	RELIEF VALVE
3	DRAWING NOTE #3		RPZ
	CEILING ACCESS DOOR	⊷ال⊽ا⊷	PLUG VALVE
VFD	VARIABLE FREQUENCY DRIVE		PUMP
(TYP)	TYPICAL		INLINE PUMP
	EXPANSION TANK	ዮ ●	FUNNEL DRAIN FLOOR DRAIN
	CLEARANCE AROUND EQUIPMENT	E R	EXISTING TO REMAIN RELOCATED
(† AHU-1	THERMOSTAT FOR AHU-1	-0	TEMPERATURE SENSOR
¹ ⁄2 "L 1-⅓"S	1/2" LIQUID AND 1-1/8" SUCTION REFRIGERATION LINES	1-1/2"CD	1-1/2" CONDENSATE DRAIN PIPE
0	ULTRAVIOLET TREATMENT SYSTEM	d	IONIZATION SYSTEM

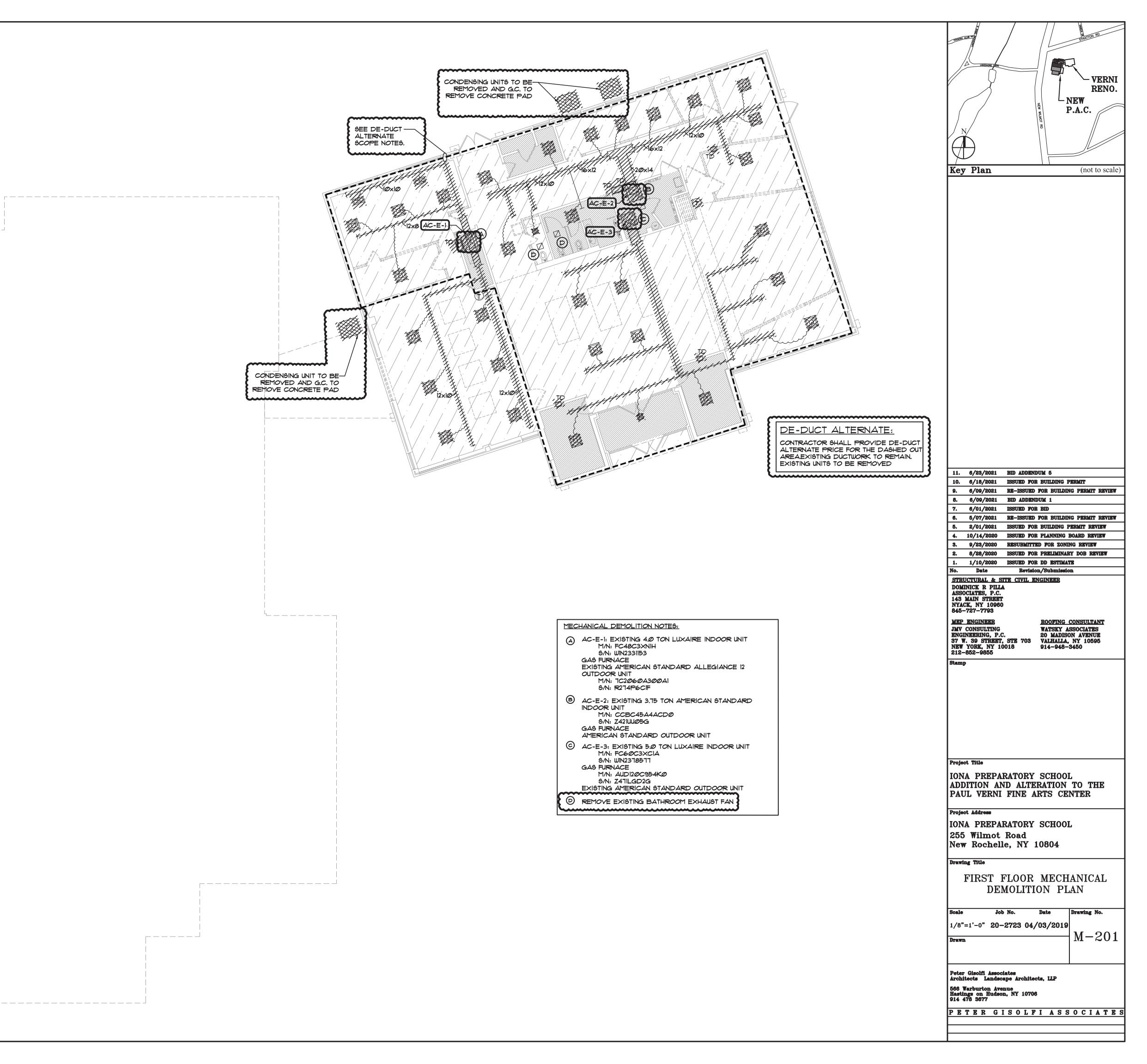
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NEW P.A.C.	NO.
N N	
Key Plan (not to s	scale)
11. 6/23/2021 BID ADDENDUM 5	
10. 6/18/2021 ISSUED FOR BUILDING PERMIT 9. 6/09/2021 RE-ISSUED FOR BUILDING PERMIT RE 8. 6/09/2021 BID ADDENDUM 1	ATEM
7.6/01/2021ISSUED FOR BID6.5/07/2021RE-ISSUED FOR BUILDING PERMIT RE	SVIEW
5. 2/01/2021 ISSUED FOR BUILDING PERMIT REVIEW 4. 10/14/2020 ISSUED FOR PLANNING BOARD REVIEW	
3. 9/23/2020 RESUBMITTED FOR ZONING REVIEW 2. 8/28/2020 ISSUED FOR PRELIMINARY DOB REVIE	W
1. 1/10/2020 ISSUED FOR DD ESTIMATE No. Date Revision/Submission	
STRUCTURAL & SITE CIVIL ENGINEER DOMINICK R PILLA ASSOCIATES, P.C. 143 MAIN STREET NYACK, NY 10960 845-727-7793	
MEP ENGINEER ROOFING CONSULTANT	
JMV CONSULTING ENGINEERING, P.C. 37 W. 39 STREET, STE 703 WATSKY ASSOCIATES 20 MADISON AVENUE VALHALLA, NY 10595	•
JMV CONSULTING WATSKY ASSOCIATES ENGINEERING, P.C. 37 W. 39 STREET, STE 703 NEW YORK, NY 10018 212-852-9855 Stamp	•
ENGINEERING, P.C. 20 MADISON AVENUE 37 W. 39 STREET, STE 703 NEW YORK, NY 10018 914-948-3450 212-852-9855	•
ENGINEERING, P.C. 20 MADISON AVENUE 37 W. 39 STREET, STE 703 NEW YORK, NY 10018 914-948-3450 212-852-9855	
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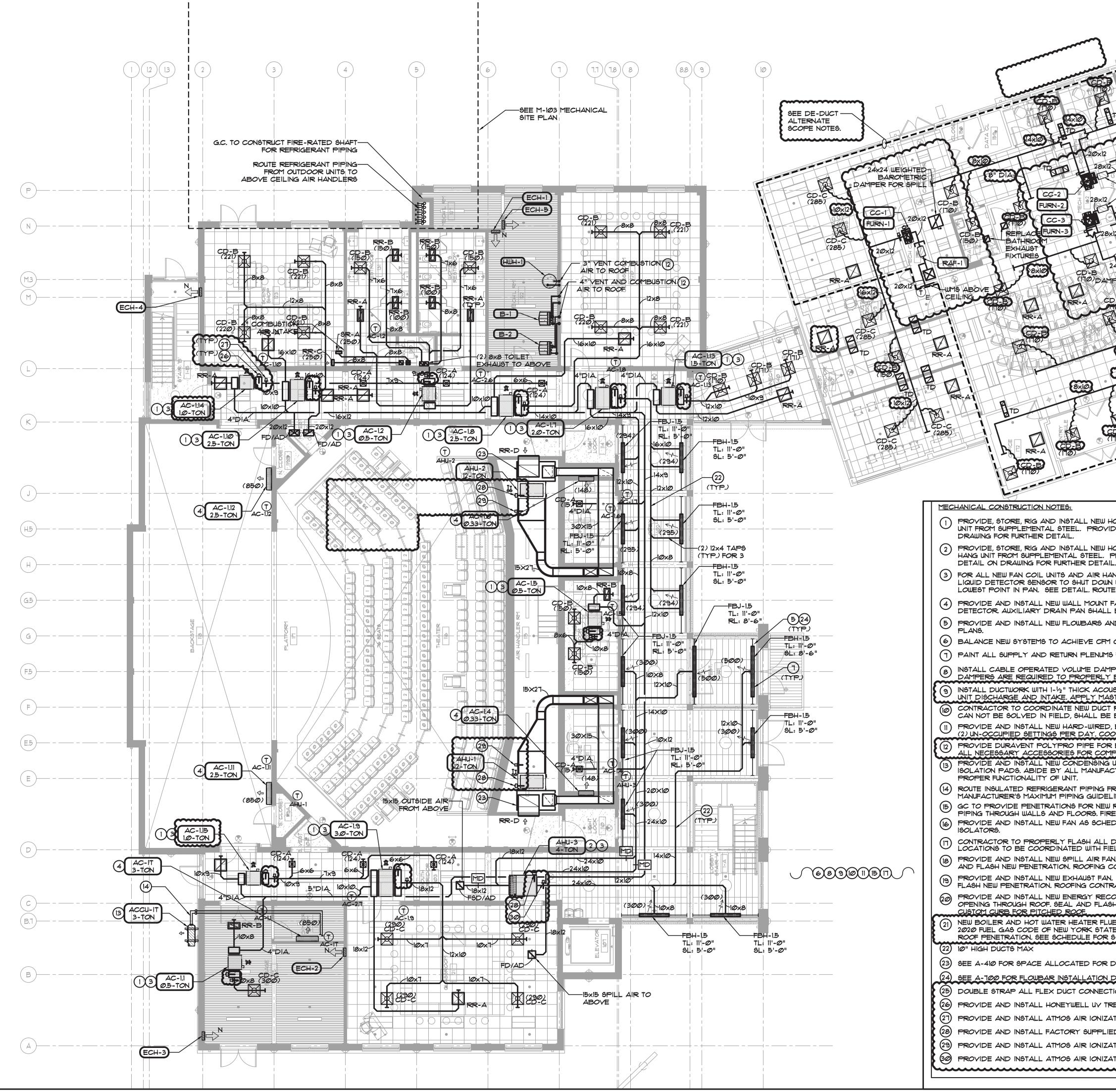


W Va/ve(ine) a/anqmontheathe Stone Masonry Wall PHE)ak REFRIGERATION PIPE SIZES: CONTRACTOR SHALL CONFIRM REFRIGERATION PIPE SIZES WITH MANUFACTURER BASED ON FIELD ×217.7 INSTALLED LENGTH ACCU-4 4-TON ACCU-3 4-TON -(1) %" LIQUID LINE AND (1) 1-3%" SUCTION LINE INTO SLEEVE. (1) 7%" HOT GAS REHEAT LINE INTO SLEEVE. TYP. FOR ACCU-3 AND ACCU-4 ACCU-5 16-TON ACCU-6 ()) TWINNED 53" LIQUID LINE AND 10-TON (1) TWINNED 1- 1/2" SUCTION LINE INTO SLEEVE: AND (1) 1/2" LIQUID LINE AND (1) 1/6" SUCTION LINE INTO SLEEVE. SEE M-321 FOR INTERIOR REFRIGERATION PIPING

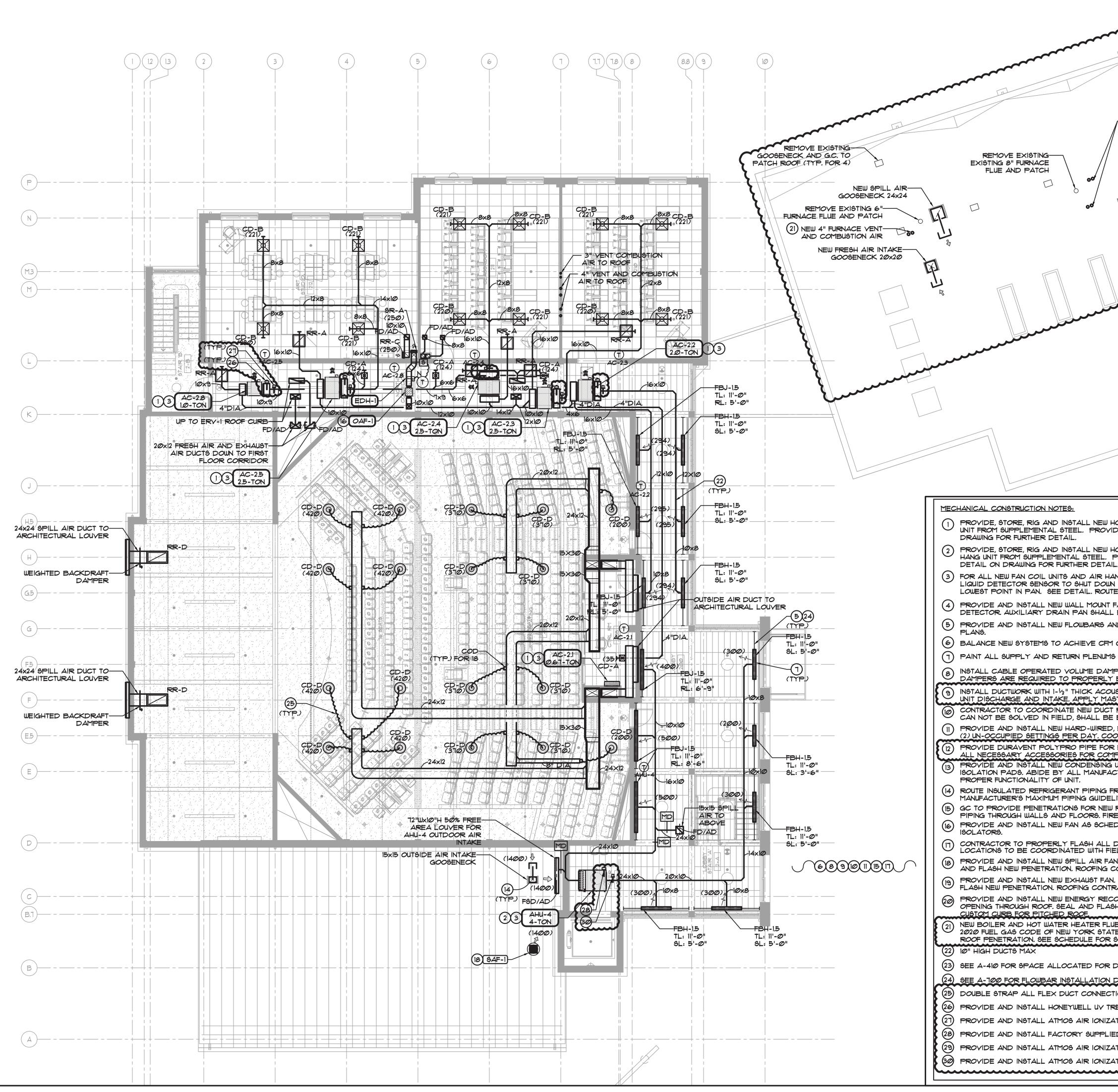




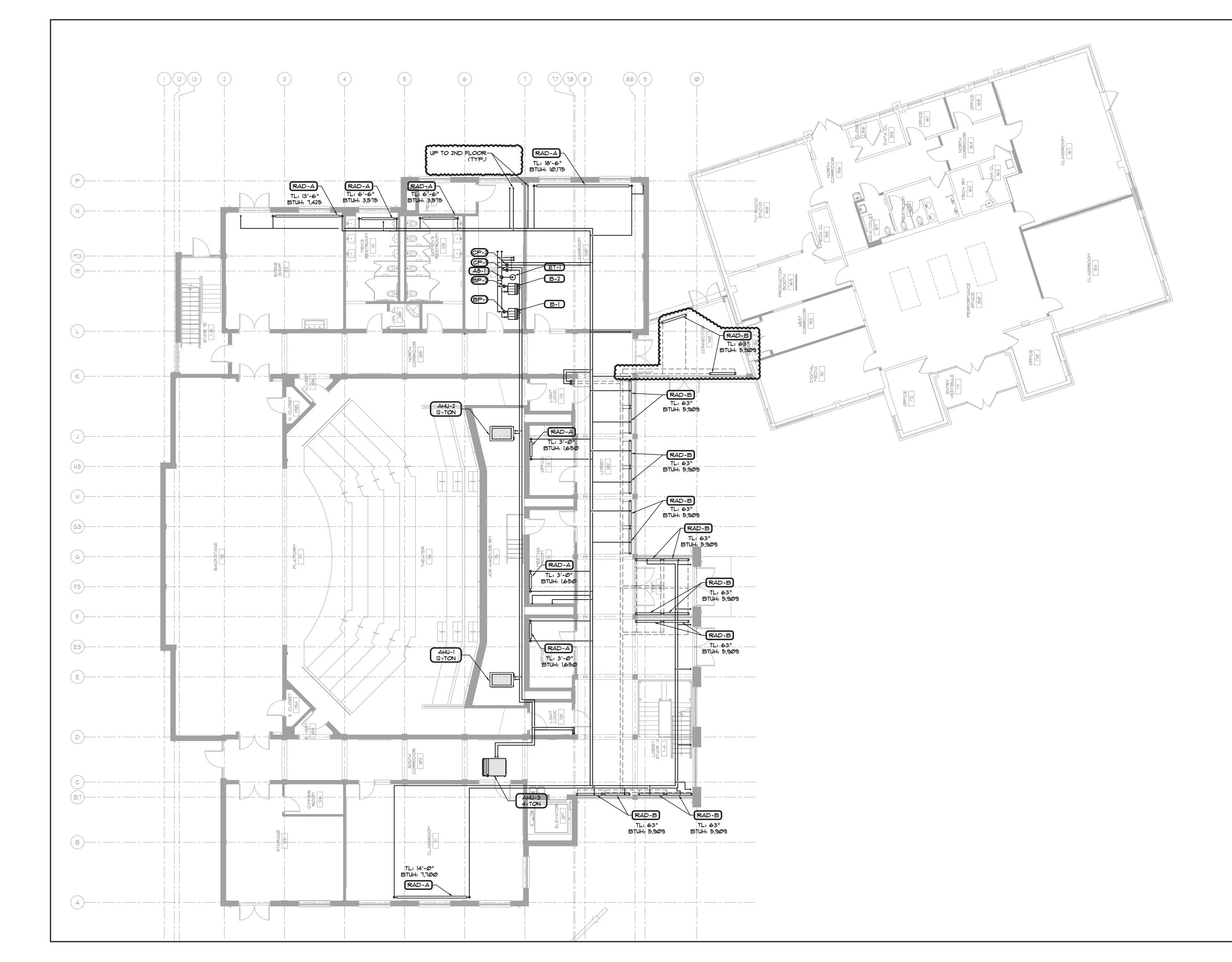




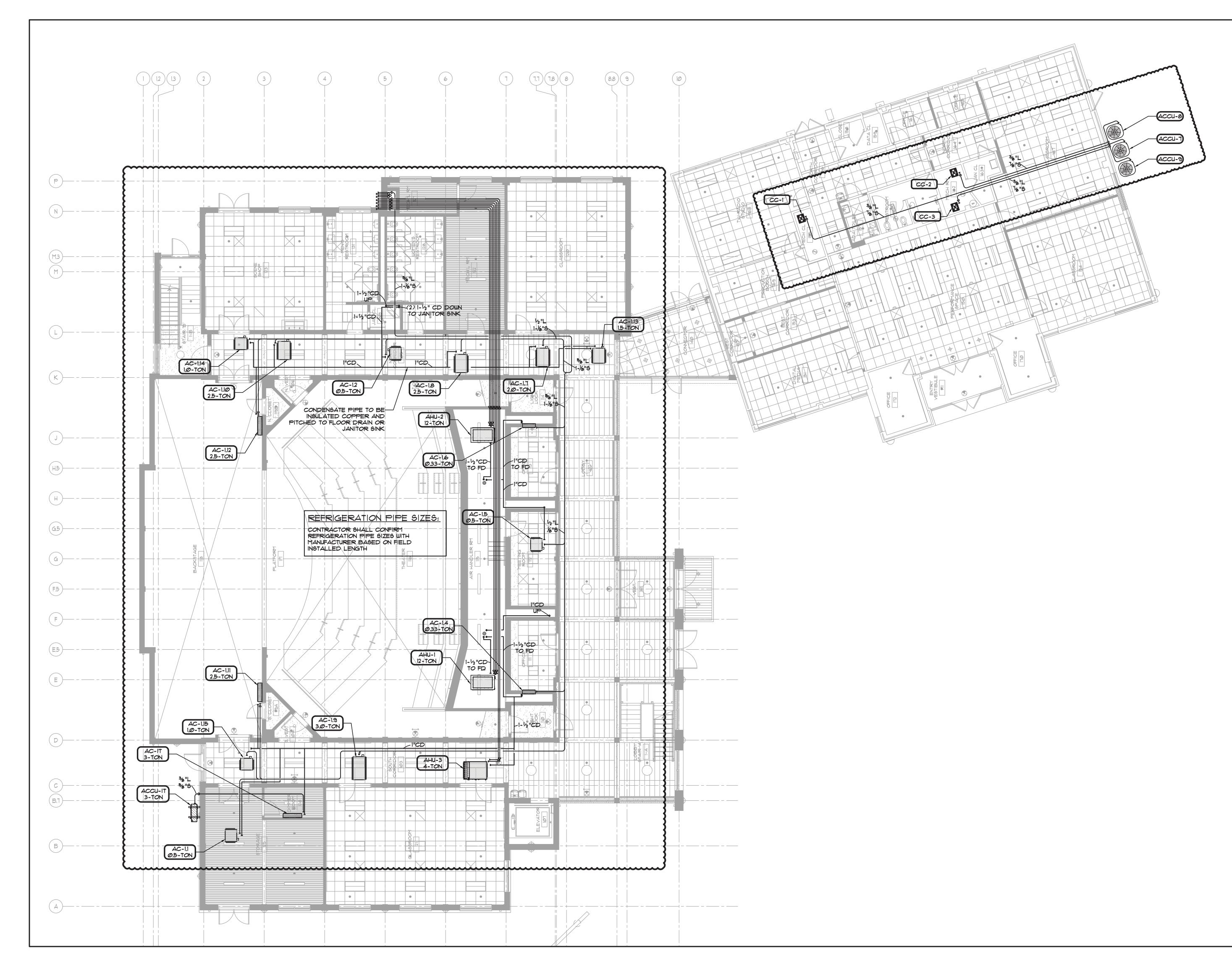
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	A LAGSHORE DET
-coordinate final location	VERNI RENO.
CD-B CHOIL	P.A.C.
TD ACCU-T	N B
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RAE-2 RR-A	
X12 WMS ABOVE	
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EXAMPLE TO AND A DE T	
DE-DUCT ALTERNATE:	
DE-DUCT ALTERNATE: CONTRACTOR SHALL PROVIDE DE-DUCT ALTERNATE PRICE THE DASHED OUT	
AREA. NEW UNITS TO BE INSTALLED AND CONNECTED TO EXISTING DUCTWORK.	11. 6/23/2021 BID ADDENDUM 5
	10. 6/18/2021 ISSUED FOR BUILDING PERMIT 9. 6/09/2021 RE-ISSUED FOR BUILDING PERMIT REVIEW
HORIZONTALLY SUSPENDED FAN COIL UNIT. CONTRACTOR TO PROPERLY HANG IDE THREADED RODS AND VIBRATION ISOLATORS. SEE AC HANGING DETAIL ON	8. 6/09/2021 BID ADDENDUM 1 7. 6/01/2021 ISSUED FOR BID 6. 5/07/2021 RE-ISSUED FOR BUILDING PERMIT REVIEW
HORIZONTALLY SUSPENDED AIR HANDLER UNIT. CONTRACTOR TO PROPERLY	5. 2/01/2021 ISSUED FOR BUILDING PERMIT REVIEW 4. 10/14/2020 ISSUED FOR PLANNING BOARD REVIEW
PROVIDE THREADED RODS AND VIBRATION ISOLATORS. SEE AC HANGING IL. COORDINATE HANGING WITH STRUCTURAL ENGINEER. ANDLERS PROVIDE AND INSTALL NEW GALVANIZED STEEL AUXILIARY PAN WITH	3. 9/23/2020 RESUBMITTED FOR ZONING REVIEW 2. 8/28/2020 ISSUED FOR PRELIMINARY DOB REVIEW 1. 1/10/2020 ISSUED FOR DD ESTIMATE
N UNIT UPON THE DETECTION OF LIQUID. CONTRACTOR TO LOCATE SENSOR AT TE COPPER CONDENSATE DRAIN PIPE TO NEAREST DRAIN	No. Date Revision/Submission STRUCTURAL & SITE CIVIL ENGINEER STRUCTURAL & SITE CIVIL ENGINEER
FAN COIL UNIT AS SCHEDULED. PROVIDE NEW AUXILIARY DRAIN PAN WITH LEAK BE CLOSE TO THE WALL AS NOT TO IMPEDE SUPPLY AIRFLOW ND LINEAR BARS FOR SUPPLY AND RETURN AS SCHEDULED AND INDICATED ON	DOMINICK R PILLA ASSOCIATES, P.C. 143 MAIN STREET NYACK, NY 10960
I QUANTITIES SHOWN.	845-727-7793 <u>MEP ENGINEER</u> <u>ROOFING CONSULTANT</u> JNV CONSULTING WATSKY ASSOCIATES
S FLAT BLACK ON INTERIOR OR AS SPECIFIED BY ARCHITECT. IPERS (COD) IN ALL BRANCH DUCTS. NOT ALL DAMPERS ARE SHOWN ON PLANS.	ENGINEERING, P.C. 20 MADISON AVENUE 37 W. 39 STREET, STE 703 VALHALLA, NY 10595 NEW YORK, NY 10018 914-948-3450 212-852-9855
BALANCE EACH AIR TERMINAL. REFER TO SPECIFICATION FOR MORE INFO. USTICAL LINING: AS SHOWN ON DRAWINGS AND/OR A MINIMUM OF 15'-@" FROM AC	Stamp
STIC ON ALL EDGES OF CUT ACOUSTICAL LINING. ROUTING WITH ALL TRADES AND GENERAL FLOOR CONDITIONS. CONFLICTS THAT BROUGHT TO ARCHITECT/ENGINEER'S ATTENTION.	
, BATTERY BACK-UP, PROGRAMMABLE THERMOSTATS WITH TWO OCCUPIED AND ORDINATE EXACT LOCATION WITH ARCHITECT, PRIOR TO ROUGHING IN WIRES.	
R BOILER AND HOT WATER HEATER VENT AND COMBUSTION AIR FLUES. PROVIDE IPLETE INSTALLATION. PVC IS NOT ACCEPTABLE.	
CTURER'S CLEARANCE REQUIREMENTS. EXTEND ALL NECESSARY SERVICES FOR ROM NEW CONDENSING UNITS TO AIR HANDLERS. ENSURE TO STAY WITHIN	Project Title
LINES. I REFRIGERANT PIPE, CONDENSATE PIPE, CONTROL CONDUIT AND ELECTRICAL RE SAFE AND SEAL TO CODE UPON COMPLETION	IONA PREPARATORY SCHOOL ADDITION AND ALTERATION TO THE
DULED. HANG FROM THREADED RODS AND MANUFACTURER'S VIBRATION DUCT AND PIPE PENETRATIONS. PENETRATIONS TO BE WEATHER-TIGHT. FINAL	PAUL VERNI FINE ARTS CENTER
ELD CONDITIONS. NN. PROVIDE ANGLE-IRON TO REINFORCE NEW OPENING THROUGH ROOF. SEAL	Project Address IONA PREPARATORY SCHOOL
CONTRACTOR TO PROVIDE AND INSTALL NEW CUSTOM CURB FOR PITCHED ROOF. I. PROVIDE ANGLE-IRON TO REINFORCE NEW OPENING THROUGH ROOF. SEAL AND RACTOR TO PROVIDE AND INSTALL NEW CUSTOM CURB FOR PITCHED ROOF.	255 Wilmot Road New Rochelle, NY 10804
COVERY VENTILATOR AS SCHEDULED. PROVIDE ANGLE-IRON TO REINFORCE NEW 3H NEW PENETRATION. ROOFING CONTRACTOR TO PROVIDE AND INSTALL NEW	Drawing Title FIRST FLOOR MECHANICAL
JES DISCHARGE ON ROOF. TERMINATION SHALL BE IN ACCORDANCE WITH THE TE 503.6.5. CONTRACTOR TO PROPERLY SEAL WEATHER-TIGHT AND FIRESAFE SIZE OF VENTS.	CONSTRUCTION PLAN
DUCT SERVING AHU 1-2	Scale Job No. Date Drawing No. 1 /8"-1'-0" 20-2723 04 /03 /2010 Description
DETAIL	1/8"=1'-0" 20-2723 04/03/2019 Drawn M-301
TIONS TO RIGID COLLARS REATMENT SYSTEM ON UNIT COIL. MODEL: UV100E3007	
ATION SYSTEM IN SUPPLY DUCT. MODEL: FC400FM ED UY TREATMENT SYSTEM. ORDER WITH AIR HANDLING UNIT.	Peter Gisolfi Associates Architects Landscape Architects, LLP 566 Warburton Avenue
ATION SYSTEM ON AUDITORIUM UNIT SUPPLY DUCT . MODEL: 500EC ATION SYSTEM ON LOBBY UNIT SUPPLY DUCT. MODEL: MATTERHORN 1000	Hastings on Hudson, NY 10706 914 478 3677 PETER GISOLFI ASSOCIATES
	J



NEW 4" FURNACE VENT (2) AND COMBUSTION AIR NEW FRESH AIR INTAKE GOOSENECK 20x20 NEW SPILL AIR GOOSENECK 24x24 NEW FRESH AIR INTAKE GOOSENECK 24x24	Key Plan (not to scale)
	11. 6/23/2021 BID ADDENDUM 5 10. 6/18/2021 ISSUED FOR BUILDING PERMIT 9. 6/09/2021 RE-ISSUED FOR BUILDING PERMIT REVIEW
	8. 6/09/2021 BID ADDENDUM 1 7. 6/01/2021 ISSUED FOR BID
IORIZONTALLY SUSPENDED FAN COIL UNIT. CONTRACTOR TO PROPERLY HANG DE THREADED RODS AND VIBRATION ISOLATORS. SEE AC HANGING DETAIL ON	6. 5/07/2021 RE-ISSUED FOR BUILDING PERMIT REVIEW 5. 2/01/2021 ISSUED FOR BUILDING PERMIT REVIEW
HORIZONTALLY SUSPENDED AIR HANDLER UNIT. CONTRACTOR TO PROPERLY PROVIDE THREADED RODS AND VIBRATION ISOLATORS. SEE AC HANGING	4. 10/14/2020 ISSUED FOR PLANNING BOARD REVIEW 3. 9/23/2020 RESUBMITTED FOR ZONING REVIEW 2. 8/28/2020 ISSUED FOR PRELIMINARY DOB REVIEW
L. COORDINATE HANGING WITH STRUCTURAL ENGINEER. INDLERS PROVIDE AND INSTALL NEW GALVANIZED STEEL AUXILIARY PAN WITH I UNIT UPON THE DETECTION OF LIQUID. CONTRACTOR TO LOCATE SENSOR AT	1. 1/10/2020 ISSUED FOR DD ESTIMATE No. Date Revision/Submission
E COPPER CONDENSATE DRAIN PIPE TO NEAREST DRAIN FAN COIL UNIT AS SCHEDULED. PROVIDE NEW AUXILIARY DRAIN PAN WITH LEAK	STRUCTURAL & SITE CIVIL ENGINEER DOMINICK R PILLA ASSOCIATES, P.C.
. BE CLOSE TO THE WALL AS NOT TO IMPEDE SUPPLY AIRFLOW ND LINEAR BARS FOR SUPPLY AND RETURN AS SCHEDULED AND INDICATED ON	143 MAIN STREET NYACK, NY 10960 845-727-7793
QUANTITIES SHOWN.	MEP_ENGINEERROOFING_CONSULTANTJMV CONSULTINGWATSKY ASSOCIATESENGINEERING, P.C.20 MADISON AVENUE37 W. 39 STREET, STE 703VALHALLA, NY 10595
B FLAT BLACK ON INTERIOR OR AS SPECIFIED BY ARCHITECT. PERS (COD) IN ALL BRANCH DUCTS. NOT ALL DAMPERS ARE SHOWN ON PLANS.	NEW YORK, NY 10018 914-948-3450 212-852-9855
BALANCE EACH AIR TERMINAL. REFER TO SPECIFICATION FOR MORE INFO. ISTICAL LINING AS SHOWN ON DRAWINGS AND/OR A MINIMUM OF 15'-O" FROM AC STIC ON ALL EDGES OF CUT ACOUSTICAL LINING.	Stamp
ROUTING WITH ALL TRADES AND GENERAL FLOOR CONDITIONS. CONFLICTS THAT BROUGHT TO ARCHITECT/ENGINEER'S ATTENTION.	
, BATTERY BACK-UP, PROGRAMMABLE THERMOSTATS WITH TWO OCCUPIED AND ORDINATE EXACT LOCATION WITH ARCHITECT. PRIOR TO ROUGHING IN WIRES.	
R BOILER AND HOT WATER HEATER VENT AND COMBUSTION AIR FLUES. PROVIDE IPLETE INSTALLATION. PVC IS NOT ACCEPTABLE. UNIT. PROVIDE NEW MANUFACTURER WALL BRACKET. MOUNT UNIT ON NEOPRENE CTURER'S CLEARANCE REQUIREMENTS. EXTEND ALL NECESSARY SERVICES FOR	
ROM NEW CONDENSING UNITS TO AIR HANDLERS. ENSURE TO STAY WITHIN _INES. REERIGERANT RIRE CONDENSATE RIRE CONTROL CONDUIT AND ELECTRICAL	Project Title IONA PREPARATORY SCHOOL
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DUCT AND PIPE PENETRATIONS. PENETRATIONS TO BE WEATHER-TIGHT. FINAL ELD CONDITIONS.	Project Address IONA PREPARATORY SCHOOL
N. PROVIDE ANGLE-IRON TO REINFORCE NEW OPENING THROUGH ROOF. SEAL CONTRACTOR TO PROVIDE AND INSTALL NEW CUSTOM CURB FOR PITCHED ROOF.	255 Wilmot Road New Rochelle, NY 10804
I. PROVIDE ANGLE-IRON TO REINFORCE NEW OPENING THROUGH ROOF. SEAL AND RACTOR TO PROVIDE AND INSTALL NEW CUSTOM CURB FOR PITCHED ROOF. OVERY VENTILATOR AS SCHEDULED. PROVIDE ANGLE-IRON TO REINFORCE NEW 64 NEW PENETRATION. ROOFING CONTRACTOR TO PROVIDE AND INSTALL NEW	Drawing Title SECOND FLOOR MECHANICAL
IES DISCHARGE ON ROOF. TERMINATION SHALL BE IN ACCORDANCE WITH THE TE 503.6.5. CONTRACTOR TO PROPERLY SEAL WEATHER-TIGHT AND FIRESAFE SIZE OF VENTS.	CONSTRUCTION PLAN
	Scale Job No. Date Drawing No.
DUCT SERVING AHU 1-2	$1/8^{*}=1^{-0^{*}}$ 20-2723 04/03/2019 M-302
DUCT SERVING AHU 1-2 DETAIL TIONS TO RIGID COLLARS	
DETAIL TIONS TO RIGID COLLARS REATMENT SYSTEM ON UNIT COIL. MODEL: UVI00E3007	$1/8^{*}=1^{-0^{*}}$ 20-2723 04/03/2019 M-302
DETAIL TIONS TO RIGID COLLARS REATMENT SYSTEM ON UNIT COIL. MODEL: UVI@@E3@@T ATION SYSTEM IN SUPPLY DUCT. MODEL: FC4@@FM ED UV TREATMENT SYSTEM. ORDER WITH AIR HANDLING UNIT.	1/8"=1'-0" 20-2723 04/03/2019 Drawn M-302 Peter Gisolfi Associates
DETAIL TIONS TO RIGID COLLARS REATMENT SYSTEM ON UNIT COIL. MODEL: UVI00E3007 ATION SYSTEM IN SUPPLY DUCT. MODEL: FC400FM	1/8"=1'-0" 20-2723 04/03/2019 Drawn M-302 Peter Gisolfi Associates Architects Landscape S66 Warburton Avenue Hastings on Hudson, NY 10706



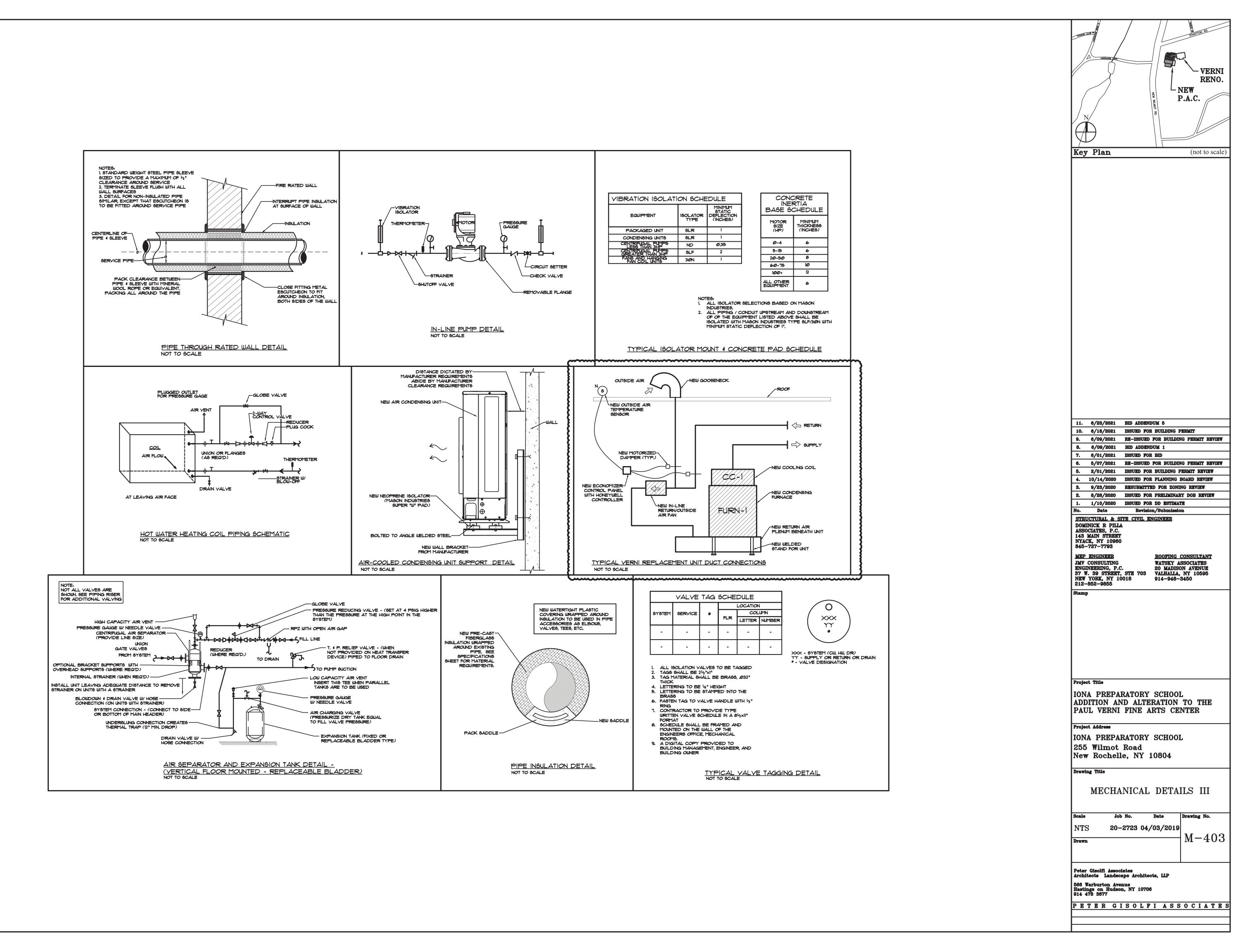
COUNTRY	CLUB MOL	A STRATTON RD
	A LAKESHORE DRIVE	
	$\left\{ \right\}$	VERNI RENO.
		NEW
		P.A.C.
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Key	7 Plan	(not to scale)
11.		BID ADDENDUM 5
9.	6/09/2021	ISSUED FOR BUILDING PERMIT RE-ISSUED FOR BUILDING PERMIT REVIEW
8. 7.	6/01/2021	BID ADDENDUM 1 ISSUED FOR BID
6.	5/07/2021	RE-ISSUED FOR BUILDING PERMIT REVIEW
5.		ISSUED FOR BUILDING PERMIT REVIEW
4. 3.	10/14/2020 9/23/2020	ISSUED FOR PLANNING BOARD REVIEW RESUBMITTED FOR ZONING REVIEW
4. 3.	10/14/2020	ISSUED FOR PLANNING BOARD REVIEW RESUBMITTED FOR ZONING REVIEW
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4. 3. 2. 1. No. STR DOM ASSO 143 NYA	10/14/2020 9/23/2020 8/28/2020 1/10/2020 Date UCTURAL & S	ISSUED FOR PLANNING BOARD REVIEW RESUBMITTED FOR ZONING REVIEW ISSUED FOR PRELIMINARY DOB REVIEW ISSUED FOR DD ESTIMATE Revision/Submission ITE CIVIL ENGINEER
4. 3. 2. 1. No. STR DOM ASSO 143 NYA 845- MEP JMV	10/14/2020 9/23/2020 8/28/2020 1/10/2020 Date UCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CK, NY 10960 -727-7793 ENGINEER CONSULTING	ISSUED FOR PLANNING BOARD REVIEW RESUBMITTED FOR ZONING REVIEW ISSUED FOR PRELIMINARY DOB REVIEW ISSUED FOR DD ESTIMATE Revision/Submission ITE CIVIL ENGINEER A ROOFING CONSULTANT WATSKY ASSOCIATES
4. 3. 2. 1. No. STR DOM ASSO 143 NYA 845- MEP JMV ENG 37 V NEW	10/14/2020 9/23/2020 8/28/2020 1/10/2020 Date UCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CK, NY 10960 -727-7793 ENGINEER CONSULTING INEERING, P.C. V. 39 STREET, YORK, NY 10	ISSUED FOR PLANNING BOARD REVIEW RESUBMITTED FOR ZONING REVIEW ISSUED FOR PRELIMINARY DOB REVIEW ISSUED FOR DD ESTIMATE Revision/Submission ITE CIVIL ENGINEER A ROOFING CONSULTANT WATSKY ASSOCIATES
4. 3. 2. 1. No. STR DOM ASSO 143 NYA 845- MEP JMV ENG 37 V NEW	10/14/2020 9/23/2020 8/28/2020 1/10/2020 Date UCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CK, NY 10960 -727-7793 ENGINEER CONSULTING INEERING, P.C. V. 39 STREET YORK, NY 10 -852-9855	ISSUED FOR PLANNING BOARD REVIEW RESUBMITTED FOR ZONING REVIEW ISSUED FOR PRELIMINARY DOB REVIEW ISSUED FOR DD ESTIMATE Revision/Submission ITE CIVIL ENGINEER A ROOFING CONSULTANT WATSKY ASSOCIATES OD MANNAN
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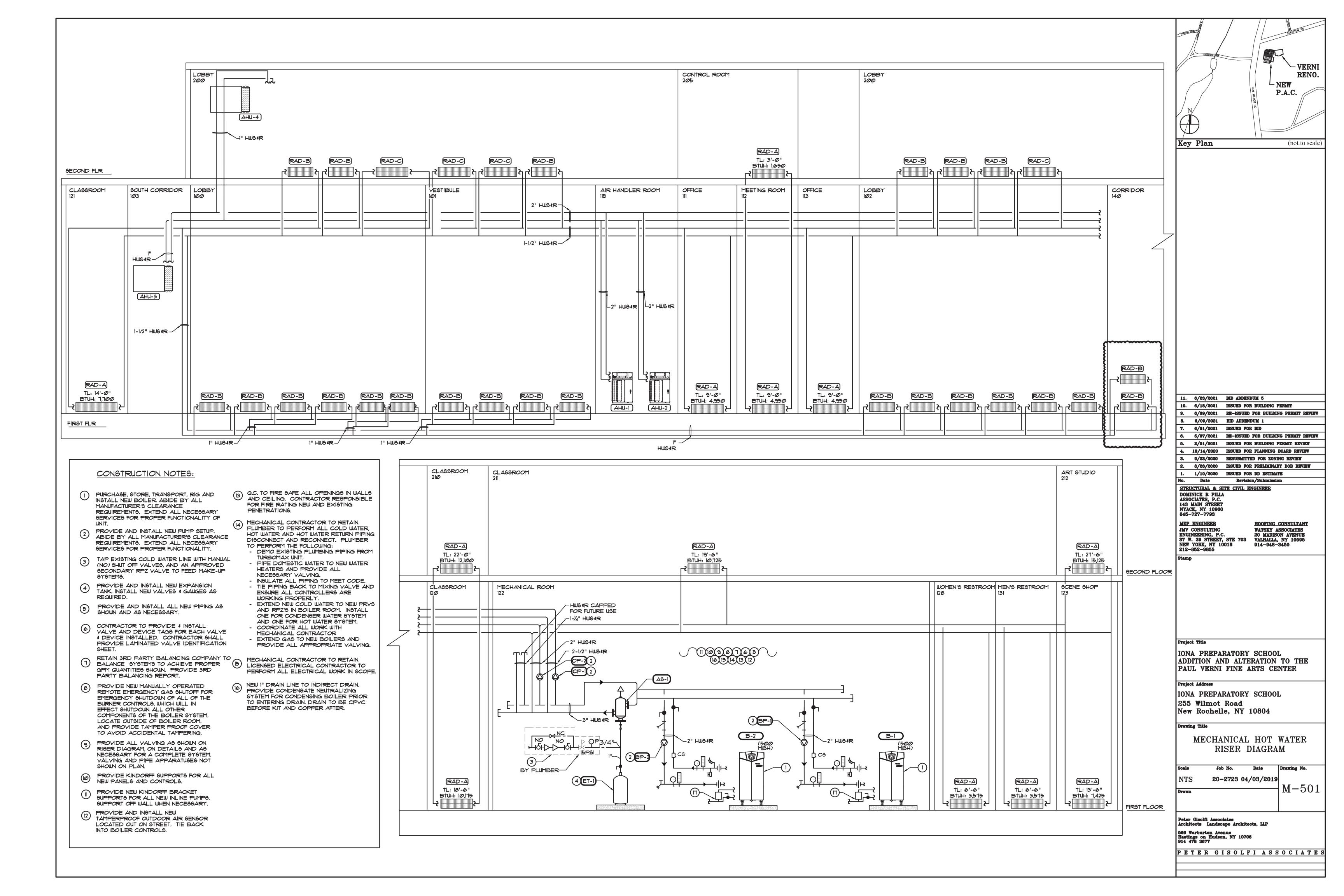


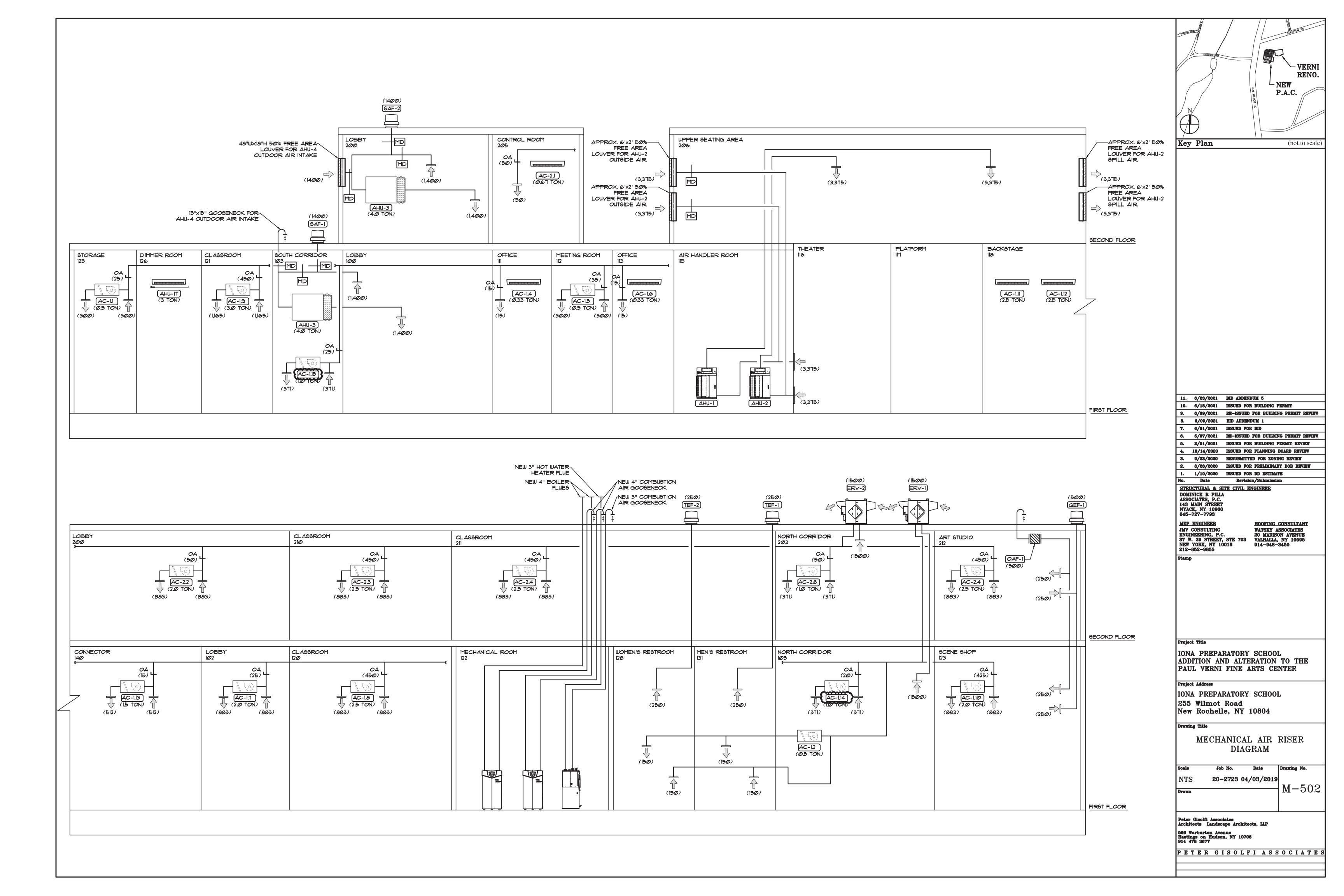
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3. 9 2. 8 1. 1 No. STRUCI DOMINIC ASSOCIA 143 MA NYACK, 845-72 MEP EN JMV CO ENGINE 37 W. 2 NEW YO 212-852 Stamp Project 7 IONA ADDIT PAUL	/23/2020 /28/2020 /10/2020 Date CURAL & SIT CK R PILLA ATES, P.C. IN STREET NY 10960 7-7793 VGINEER NSULTING ERING, P.C. 39 STREET, DRK, NY 100 2-9855 SORK, NY 100 2-9855	RESUBMITTE ISSUED FOR Revision TE CIVIL EN STE 703 D18	D FOR ZONI PRELIMINAL DD ESTIMA n/Submissic IGINEER ROOFING WATSKY A 20 MADISC VALHALLA, 914-948- SCHOOI RATION	NG REVIEW RY DOB REVIEW TE DA CONSULTANT SSOCIATES DN AVENUE NY 10595 3450 L TO THE
3. 9 2. 8 1. 1, No. STRUCI DOMINIC ASSOCIA 143 MA NYACK, 845-72 MEP EN JMV CO ENGINE 37 W. 3 NEW YO 212-853 Stamp Project 1 IONA ADDIT PAUL Project A IONA	/23/2020 /28/2020 /10/2020 Date CURAL & SI CK R PILLA ATES, P.C. IN STREET NY 10960 7-7793 GINEER NSULTING ERING, P.C. 39 STREET, ORK, NY 100 2-9855 REPAR TION AN VERNI Address PREPAR	RESUBMITTE ISSUED FOR Revision TE CIVIL EN STE 703 D18 STE 703 D18 RATORY D ALTEI FINE A RATORY	D FOR ZONI PRELIMINAL DD ESTIMA h/Submissic IGINEER ROOFING WATSKY A 20 MADIS VALHALLA, 914-948- SCHOOI RATION RTS CE	NG REVIEW RY DOB REVIEW TE Da CONSULTANT SSOCIATES DN AVENUE NY 10595 3450 L TO THE NTER
3. 9 2. 8 1. 1 No. STRUCI DOMINIC ASSOCIA 143 MA NYACK, 845-72 MEP EN JMV CO ENGINE 37 W. 2 212-85 Stamp Project 7 IONA ADDIT PAUL Project A IONA 255 N	/23/2020 /28/2020 /10/2020 Date CURAL & SI CK R PILLA ATES, P.C. IN STREET NY 10960 7-7793 GINEER NSULTING ERING, P.C. 39 STREET, 0RK, NY 100 2-9855 SORK, NY 100 2-9855 Fitle PREPAR CION AN VERNI	RESUBMITTE ISSUED FOR Revision TE CIVIL EN STE 703 D18 STE 703 STE 705	D FOR ZONI PRELIMINAL DD ESTIMA h/Submissic IGINEER ROOFING WATSKY A 20 MADISO VALHALLA, 914-948- SCHOOI RATION RTS CE SCHOOI	NG REVIEW RY DOB REVIEW TE Da CONSULTANT SSOCIATES DN AVENUE NY 10595 3450 L TO THE NTER
3. 9 2. 8 1. 1 No. STRUCI DOMINIC ASSOCIA 143 MA NYACK, 845-72 MEP EN JMV CO ENGINE 37 W. 2 212-85 Stamp Project 7 IONA ADDIT PAUL Project A IONA 255 N	/23/2020 /28/2020 /10/2020 Date CURAL & SI CK R PILLA ATES, P.C. IN STREET NY 10960 7-7793 GINEER NSULTING ERING, P.C. 39 STREET, 0RK, NY 100 2-9855 SORK, NY 100 2-9855 Fittle PREPAR CION AN VERNI VERNI Mddress PREPAR Wilmot	RESUBMITTE ISSUED FOR Revision TE CIVIL EN STE 703 D18 STE 703 STE 705	D FOR ZONI PRELIMINAL DD ESTIMA h/Submissic IGINEER ROOFING WATSKY A 20 MADISO VALHALLA, 914-948- SCHOOI RATION RTS CE SCHOOI	NG REVIEW RY DOB REVIEW TE Da CONSULTANT SSOCIATES DN AVENUE NY 10595 3450 L TO THE NTER
3. 9 2. 8 1. 1 No. STRUCI DOMINIC ASSOCIA 143 MA NYACK, 845-72 MEP EN JMV CO ENGINE 37 W. 2 212-852 Stamp Project 7 IONA ADDI'I PAUL Project 7 IONA 255 N New 1 Drawing	/23/2020 /28/2020 /10/2020 Date URAL & ST CK R PILLA ATES, P.C. IN STREET NY 10960 7-7793 GINEER NSULTING ERING, P.C. 39 STREET, 02-9855 STREET, 02-9855 Fittle PREPAR VERNI VERNI Mddress PREPAR Wilmot Rochelle Title	RESUBMITTE ISSUED FOR Revision TE CIVIL EN STE 703 D18 STE 703 STE 700 STE 700	D FOR ZONI PRELIMINAL DD ESTIMA A/Submissic IGINEER ROOFING WATSKY A 20 MADIS VALHALLA, 914-948- SCHOOI RATION RTS CE SCHOOI 0804 FLOO	NG REVIEW RY DOB REVIEW TE Da CONSULTANT SSOCIATES DN AVENUE NY 10595 3450 L TO THE NTER L
3. 9 2. 8 1. 1 No. STRUCT DOMINIC ASSOCIA 143 MA NYACK, 845-72 MEP EN JMV CO ENGINE 37 W. 3 NEW YO 212-85 Stamp Project 7 IONA ADDI'I PAUL Project 7 IONA ADDI'I PAUL Project 7 IONA Stamp Drawing RF	/23/2020 /28/2020 /10/2020 Date URAL & SI CK R PILLA ATES, P.C. IN STREET NY 10960 7-7793 GINEER NSULTING ERING, P.C. 39 STREET, 02-9855 WILL 2-9855 FRIGE FILL NY 10960 7-7793 GINEER NSULTING ERING, P.C. 39 STREET, 02-9855 FRIGE FILL NY 10960 7-7793 GINEER NSULTING ERING, P.C. 39 STREET, 02-9855 FRIGE FILL SE CFRIGE	RESUBMITTE ISSUED FOR Revision TE CIVIL EN STE 703 D18 STE 703 D18 RATORY D ALTEI FINE AI SATORY Road e, NY 1 COND RANT No.	D FOR ZONI PRELIMINAL DD ESTIMA h/Submissic IGINEER ROOFING WATSKY A 20 MADIS VALHALLA, 914-948- SCHOOI RATION RTS CE SCHOOI 0804 FLOO PIPIN Date	NG REVIEW RY DOB REVIEW TE SDA CONSULTANT SSOCIATES DN AVENUE NY 10595 3450 L TO THE NTER L R G PLAN Drawing No.
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3. 9 2. 8 1. 1 No. STRUCI DOMINIC ASSOCIA 143 MA NYACK, 845-72 MEP EN JMV CO ENGINE 37 W. 2 NEW YO 212-85 Stamp Project 1 IONA ADDIT PAUL Project 2 IONA ADDIT PAUL Project 2 IONA Drawing RF Scale 1/8"=1 Drawn	/23/2020 /28/2020 /10/2020 Date URAL & SI CK R PILLA ATES, P.C. IN STREET NY 10960 7-7793 GINEER NSULTING ERING, P.C. 39 STREET, 02-9855 STREET, 02-9855 PREPAR FIUE PREPAR FIUE PREPAR FIUE FILE SE FRIGE SE CFRIGE Job '-0" 20-2 Job	RESUBMITTE ISSUED FOR Revision TE CIVIL EN STE 703 DIS STE 70 DIS STE 70 DIS	D FOR ZONI PRELIMINAL DD ESTIMA A/Submissic IGINEER ROOFING WATSKY A 20 MADISC VALHALLA, 914-948- SCHOOI RATION RTS CE SCHOOI 0804 FLOO PIPIN Date 03/2019	NG REVIEW RY DOB REVIEW TE SDA CONSULTANT SSOCIATES ON AVENUE NY 10595 3450 L L TO THE NTER L R G PLAN Drawing No.
3. 9 2. 8 1. 1 No. STRUCI DOMINIC ASSOCIA 143 MA NYACK, 845-72 MEP EN JMV CO ENGINE 37 W. 2 NEW YO 212-852 Stamp Project 7 IONA ADDIT PAUL Project 7 IONA 255 V New 2 Drawing RF Scale 1/8"=1 Drawn Peter Gi Architec 566 War Hastings 914 478	/23/2020 /28/2020 /10/2020 Date URAL & SI CK R PILLA ATES, P.C. IN STREET NY 10960 7-7793 GINEER NSULTING ERING, P.C. 39 STREET, 02-9855 STREET, 02-9855 PREPAR Fitle PREPAR FION AN VERNI Address PREPAR VILMOT SE FRIGE SE FRIGE Job '-0" 20-2 Job '-0" 20-2	RESUBMITTE ISSUED FOR Revision TE CIVIL EN STE 703 DIS STE 700 DIS STE 700 DIS	D FOR ZONI PRELIMINAL DD ESTIMA A/Submissic IGINEER ROOFING WATSKY A 20 MADISC VALHALLA, 914-948- SCHOOI RATION RTS CE SCHOOI 0804 FLOO PIPIN Date 03/2019 ts, LLP	NG REVIEW RY DOB REVIEW TE SDA CONSULTANT SSOCIATES ON AVENUE NY 10595 3450 L L TO THE NTER L R G PLAN Drawing No.
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										SPLIT 4		ONDITIC	ONING L	INIT SCH	EDULE												
							AI₹	R HANDLING	UNIT										AIF	R COOLE	D COND	ENSIN	IG UNIT				
AHU NO.	SERVICE	NOMINAL TONNAGE	COOLING CAPACITY	HEATING	CFM	MAX	MANUF.	TYPE	MODEL	UNIT ELEC		CHAR.	AIR HANDLER WEIGHT	SOUND PRESSURE	PHYSICAL DIMENSIONS HXWXD	COND UNIT	MANUF.	MODEL*	COOLING CAPACITY	HEATING CAPACITY	SOUND PRESSURE	EFF		* ~ *	D. UNIT ELEC	COND UNIT WEIGH	
			(BTUH)	(BTUH)	HIGH/LOW		мітецвієні	DUCTED -		VOLTS-PHASE	MCA	MOCP	(LBS)	(dBA)	(in.)				(BTUH)	(BTUH)	(dBA)			PH4	SE MCA M		
AC-1.1	STORAGE 134 WOMEN'S RESTROOM	Ø.5	6,000	6,700	212	0.6	ELECTRIC	CEILING: UNIT	PEFY-PØGNMAU-E3	208/1	1.1	15	49	29	9-7/8" x 27-9/16" x 28-7/8'							~~~~~					
40-12	133 4 MEN'S RESTROOM 139	0.5	6,000	6,700	212	0.6	MITSUBISHI ELECTRIC	DUCTED - CEILING UNIT	PEFY-PØGNMAU-E3	208/1	1.1	15	49	29	9-7/8" × 27-9/16" × 28-7/8'		{										
40-1.3	DELETED																										71-10/16
4C-1.4	OFFICE 114	Ø.33	4,000	4,500	148	N/A	MITSUBISHI ELECTRIC	WALL MOUNTED CASSETTE	PKFY-P04NLMU-E	208/1	Ø2	15	24	28	11-25/32" × 30-7/16" × 9-11/32	2"	{						MODULE #1	1 208	/3 33	569	× 48-14/16 ×
4C-1,5	FACULTY LOUNGE 115	0.5	6,000	6,700	300 212	0.6	MITSUBISHI ELECTRIC	DUCTED - CEILING UNIT	PEFY-POGNMAU-E3	208/1	1.1	15	49	29	9-7/8" x 27-9/16" x 28-7/8'	n											29-3/16
AC-1.6	Office 116	Ø.33	4,000	4,500	148	N/A	MITSUBISHI ELECTRIC	WALL MOUNTED CASSETTE	PKFY-P04NLMU-E	208/1	02	15	24	28	11-25/32" × 30-7/16" × 9-11/32	2"											
4C-1.7	LOBBY 102	2.Ø	24,000	27,000	883 618	0.6	MITSUBISHI ELECTRIC	DUCTED - CEILING UNIT	PEFY-P24NMAU-E3	208/1	2.7	15	61	39	9-7/8" x 43-5/16" x 28-7/8	"	{					EER 11.2					
AC-1.8	CLASSROOM 120	2.5	30,000	34 <i>,000</i>	883	0.6	MITSUBISHI ELECTRIC	DUCTED - CEILING UNIT	PEFY-P30NMAU-E3	208/1	2.7	15	61	39	9-7/8" x 43-5/16" x 28-7/8	- Асси-5	ME	PUHY-PI92TGNU-A	192,000	216,000	62	IEER 23.4					
4C-1.9	CLASSROOM 121	3.Ø	36,000	40,000	1165	0.6	MITSUBISHI ELECTRIC	DUCTED - CEILING UNIT	PEFY-P36NMAU-E3	208/1	3.32	15	86	41	9-7/8" x 55-1/8" x 28-7/8"							COP 3.59					
AC-1.10	SCENE SHOP 122	2.Ø	24,000	27,000	883	0.6	MITSUBISHI ELECTRIC	DUCTED - CEILING UNIT	PEFY-P24NMAU-E3	208/1	2.7	15	67	39	9-7/8" x 43-5/16" x 28-7/8	"											
4 C-1.11	STAGE 118	2.5	30,000	34,000	850	N/A	MITSUBISHI ELECTRIC	WALL MOUNTED CASSETTE	PKFY-P3ØNKMU-E	208/1	Ø.5	15	46	49	14-3/8" x 46-1/16" x 11-5/8"												TI-1@/10
4C-1.12	STAGE 118	2.5	30,000	34,000	850	N/A	MITSUBISHI	WALL MOUNTED CASSETTE	PKFY-P30NKMU-E	208/1	Ø.5	15	46	49	14-3/8" x 46-1/16" x 11-5/8"		}						MODULE #2	1 208	/3 33	60 569	48-14/1 × 29-3/10
4C-1.13	PASSAGEWAY 140	1.5	18,000	20,000	512 424	Ø.4	MITSUBISHI ELECTRIC	DUCTED - CEILING UNIT	PEFY-PI8NMAU-E3	208/1	1.56	15	58	32	9-7/8" × 35-7/16" × 28-7/8												
AC-1.14	FIRST FLOOR NORTH CORRIDOR 105	1.Ø	12,000	13,500	371 265	0.6	MITSUBISHI	DUCTED - CEILING UNIT	PEFY-P12NMAU-E3	208/1	1.2	15	49	34	9-7/8" × 27-9/16" × 28-7/8'												
4C-1.15	FIRST FLOOR SOUTH CORRIDOR 103	1.Ø	12,000	13,500	37I 265	0.6		DUCTED - CEILING UNIT	PEFY-PI2NMAU-E3	208/1	1.2	15	49	34	9-7/8" x 27-9/16" x 28-7/8'		{		<u> </u>	h	h						
AC-2.1	CONTROL ROOM 215	0.67	8,000	9,000	237	N/A		WALL MOUNTED CASSETTE	PKFY-PØ8NLMU-E	2Ø8/1	0.3	15	25	35	11-25/32" × 30-7/16" × 9-11/32	2"											1
4C-2.2	LOBBY 201	2.Ø	24,000	27,000	883 618	0.6		DUCTED - CEILING UNIT	PEFY-P24NMAU-E3	208/1	2.7	15	61	39	9-7/8" x 43-5/16" x 28-7/8	"											
C-2.3	CLASSROOM 220	2.5	30,000	34,000	883 618	0.6		DUCTED - CEILING UNIT	PEFY-P30NMAU-E3	208/1	2.7	15	61	39	9-7/8" x 43-5/16" x 28-7/8	"						EER 12.3					71-10/1
C-2.4	CLASSROOM 221	2.5	30,000	34,000	883 618	0.6		DUCTED - CEILING UNIT	PEFY-P30NMAU-E3	208/1	2.т	15	61	39	9-7/8" x 43-5/16" x 28-7/8	- АССИ-6 "	ME	PUHT-P12ØTNU-A	12 <i>0,000</i>	135 <i>,000</i>	62	IEER 23.6 COP	SINGLE MODULE	1 208	/3 41 1	0 594	× 48-14/ ×
C-2.5	ART STUDIO 222	2.5	30,000	34,000	883	0.6		DUCTED - CEILING UNIT	PEFY-P30NMAU-E3	2Ø8/1	2.7	15	61	39	9-7/8" x 43-5/16" x 28-7/8							3.8					29-3/
C-2.8	SECOND FLOOR	10	12,000	13,500	618	0.6	MITSUBISHI	DUCTED -	PEFY-P12NMAU-E3	2Ø8/1		15	49	34	9-7/8" x 27-9/16" x 28-7/8'	_											

* SELECTIONS BASED ON MITSUBISHI ELECTRIC. CONTACT MALCOLM SIGELBAUM - 718 269 3650 * PROVIDE FILTER RACK FOR DUCTED UNITS AND (2) SPARE FILTERS * PROVIDE HARD-WIRED THERMOSTAT FOR EACH AIR HANDLING UNIT AND (2) MASTER WIFI-ENABLED THERMOSTAT MODEL: AE-200A * FOR ACCU-5 TWINNING KIT IS REQUIRED MODEL: CMY-Y100CBK3

														e	PLIT AIR H		ER U	NIT SCH	EDULE											
									IN	000F	NIT	-										2		OUTDO	OR UN	11T				
АНИ	LOCATION	NOMINAL	COOLING				1	1	UATER C					MODEL	UNIT ELECT		CHAR.	AIR HANDLER	PHYSICAL DIMENSIONS		* 0F		MODEL*	COND. U		с.	COND. UNIT	PHYSICAL DIMENSIONS	REF	
NO.		TONNAGE	COOLING CAPACITY (BTUH)	CFM	ESP	EAT DB ("F.	LAT DB (*F)	TH (MBH)	EWT (*F)	LWT ("F)	FLOW (GPM)	PD (FT)	MANUF.	MODEL	VOLTS-PHASE	MCA	MOCP	WEIGHT (LBS)	HxWxD (in.)	COND UNIT	COMP.	MANUF.		VOLTS-PHASE	MCA	MFA	WEIGHT (LBS)	HxWxD (in.)		EFF. (COOL)
AHU-1	THEATER 110	12	149,080	3375	1.75	45.5	97.0	196.8	160	139.9	2Ø	2.2	AAON	V3-DRB-8-0- 162C-12L	208 - 3 PH	11.0	15	75Ø	73-1/8 × 56-1/8 × 34-1/4	ACCU-	2	AAON	СFA-Ø13-B-A-8- DCØØK	208 - 3 PH	55	٦Ø	1154	57x94x46-3/1	R-410A	10.3
AHU-2	THEATER 110	12	149,080	3375	1.75	45.5	୭୮.୭	196.8	160	139.9	2Ø	2.2	AAON	V3-DRB-8-0- 162C-12L	208 - 3 PH	11.0	15	75Ø	73-1/8 × 56-1/8 × 34-1/4	ACCU-1	2	AAON	СFA-Ø13-B-A-8- DCØØK	208 - 3 PH	55	٦Ø	1154	57x94x46-3/1	R-410A	10.3
AHU-3	LOBBY FOYER 103	4	49,470	1400	0.6	42.5	94,8	83.3	160	137	7.4	Ø.4	AAON	H3-BRB-8-0- 161C-12N	208 - 3 PH	4.0	15	596	22-1/8 × 57 × 42-3/8	ACCU-1	1	AAON	СFА-004-А-А-8- DC00H	208 - 3 PH	23	35	454	56-1/4x61-1/2x29-1/4	R-410A	12.Ø
AHU-4	LOBBY FOYER 203	4	49,470	1400	0.6	42.5	94,8	83.3	160	137	7.4	Ø.4	AAON	H3-BRB-8-0- 161C-12N	208 - 3 PH	4.0	15	596	22-1/8 × 57 × 42-3/8	ACCU-	1	AAON	СFА-004-А-А-8- DC00H	208 - 3 PH	23	35	454	56-1/4x61-1/2x29-1/4	R-410A	12.0
ELECTION	BASED ON AAON.	CONTACT	-AUL JOHNST	ON (GIL-B	AR) - 21	2 331 82-	2	-						•	•			-	•			7	-						•	<u></u>

SELECTIONS BASED ON AAON. CONTACT PAUL JOHNSTON (GIL-BAR) - 212 331 8272 REFER TO MANUFACTURER'S INSTALLATION GUIDELINES FOR MORE INFORMATION PROVIDE MANUFACTURER SUPPLIED ULTRAVIOLET LIGHT PURIFICATION PACKAGE

												OOM SF		CONDITIONING U	NIT SCHE	EDULE										
		INDOOR UNIT																		OUTDOOF	R UNIT					
Ани		NOMINAL		CFM		MANUF.	ŤYPE	MODEL	UNIT ELEC		CHAR.	AIR HANDLER	SOUND PRESSURE	PHYSICAL DIMENSIONS HXWXD	COND	LOCATION	MANUF.	MODEL*	COOLING CAPACITY		NIT ELEC.	SOUNE PRESSU dB(A)	COND. UNIT WEIGHT	PHYSICAL DIMENSIONS HXWXD	REF	EFF.
NO.		TONNAGE	(BTUH)	MAX					VOLTS-PHASE	MCA	MOCP	WEIGHT (LBS)	H/M/L	(in.)	UNIT					VOLTS-PHASE	MCA M	FA AB(A,	(LBS)	(in.)		(COOL
AC-IT	IT ROOM	3	34,600	887 389	-	MITSUBISHI ELECTRIC	WALL MOUNTED CASSETTE	MST-D36NA	208 - 1 PH	1	154	40	51/42/32	14-3/8x46-1/16x11-5/8	ACCU-IT	ROOF	MITSUBISHI ELECTRIC	MUT-D36NA	34,600	208-230/1	21	25 56	126	33-7/16x33-1/16x13	R-410A	SEER 15.1

SELECTIONS BASED ON "MITSUBISHI ELECTRIC" MANUFACTURER. CONTACT MALCOM SIGELBAUM - 718 269 3650 PROVIDE ALL AIR HANDLERS WITH HARD WIRED THERMOSTATS. ALL THERMOSTATS TO BE ENCLOSED IN TAMPER-PROOF CASES PROVIDED BY G.C. PROVIDE LOW AMBIENT WIND BAFFLES (2 PER CONDENSING UNIT). REFER TO MANUFACTURER'S INSTALLATION GUIDELINES FOR MORE INFORMATION

COUNTRY	Ø	
	ALLIE ROLL	A STRATION RD
/.	A LAKESHORE DRIVE	
	\int	VERNI
,	5	RENO.
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	, /	P.A.C.
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Key	Plan	(not to scale
11.	6/23/2021	BID ADDENDUM 5
10. 9.	6/18/2021 6/09/2021	ISSUED FOR BUILDING PERMIT RE-ISSUED FOR BUILDING PERMIT REVIEW
8.	6/09/2021	BID ADDENDUM 1
7. 6.	6/01/2021 5/07/2021	ISSUED FOR BID RE-ISSUED FOR BUILDING PERMIT REVIEW
5. 4.	2/01/2021 10/14/2020	ISSUED FOR BUILDING PERMIT REVIEW ISSUED FOR PLANNING BOARD REVIEW
3. 2.	9/23/2020	RESUBMITTED FOR ZONING REVIEW ISSUED FOR PRELIMINARY DOB REVIEW
6 .	1/10/2020	ISSUED FOR DD ESTIMATE
1.		
1. No. <u>STRI</u>		Revision/Submission
1. No. STRU DOMI ASSO 143	JCTURAL & S INICK R PILL ICIATES, P.C. MAIN STREET	ITTE CIVIL ENGINEER A
1. No. STRI DOMI ASSO 143 NYAO	JCTURAL & S INICK R PILL ICIATES, P.C.	ITTE CIVIL ENGINEER A
1. No. STRI DOMI ASSO 143 NYAO 845- MEP JMV	JCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CK, NY 10960 727-7793 ENGINEER CONSULTING	TTE CIVIL ENGINEER A C C C C C C C C C C C C C C C C C C
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1. No. STRI DOMI ASSO 143 NYAC 845- JMV ENGI 37 W NEW 212-	JCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CK, NY 10960 727-7793 ENGINEER CONSULTING NEERING, P.0 7. 39 STREET YORK, NY 10 852-9855	TTE CIVIL ENGINEER A C C C C C C C C C C C C C C C C C C
1. No. STRI DOMI ASSO 143 NYAC 845- JMY ENGI 37 W NEW	JCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CK, NY 10960 727-7793 ENGINEER CONSULTING NEERING, P.0 7. 39 STREET YORK, NY 10 852-9855	ROOFING CONSULTANT WATSKY ASSOCIATES
1. No. STRI DOMI ASSO 143 NYAC 845- JMV ENGI 37 W NEW 212-	JCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CK, NY 10960 727-7793 ENGINEER CONSULTING NEERING, P.0 7. 39 STREET YORK, NY 10 852-9855	ROOFING CONSULTANT WATSKY ASSOCIATES
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1. No. STRI DOMI ASSO 143 NYAG 845- JMV ENGI 37 W NEW 212- Stamp	JCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CK, NY 10960 727-7793 ENGINEER CONSULTING NEERING, P.0 7. 39 STREET YORK, NY 10 852-9855	ROOFING CONSULTANT WATSKY ASSOCIATES
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1. No. STRI DOMI ASSO 143 NYAG 845- MEP JMV ENGI 37 W NEW 212- Stamp Stamp Project ION ADD	JCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CK, NY 10960 (727-7793 ENGINEER CONSULTING NEERING, P.C. (. 39 STREET YORK, NY 10 852-9855	A ROOFING CONSULTANT WATSKY ASSOCIATES 20 MADISON AVENUE 5 STE 703 VALHALLA, NY 10595 0018 914-948-3450
1. No. STRI DOMI ASSO 143 NYAG 845- JMV ENGI 37 W NEW 212- Stamp Stamp Project ION ADD PAU	JCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CK, NY 10960 (727-7793 ENGINEER CONSULTING NEERING, P.C. (. 39 STREET YORK, NY 10 852-9855	RATORY SCHOOL ND ALTERATION TO THE
1. No. STRI DOMI ASSO 143 NYAC 845- JENGI 37 W NEW 212- Stamp Stamp Project ION ADD PAU	JCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET X, NY 10960 727-7793 ENGINEER CONSULTING NEERING, P.O. X 39 STREET YORK, NY 10 852-9855 CONSULTING NEERING, P.O. X 39 STREET YORK, NY 10 852-9855 CONSULTING NEER	RATORY SCHOOL RATORY SCHOOL RATORY SCHOOL RATORY SCHOOL
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1. No. STRU DOMI ASSO 143 NYAC 845- JENGI 37 W NEW 212- Stamp Stamp Project ION 255 NeW Project ION 255 NeW Drawit	JCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CALL AND STREET CONSULTING NEERING, P.O. V39 STREET YORK, NY 10 852-9855 CONSULTING NEERING, P.O. STREET YORK, NY 10 852-9855 CONSULTING NEERING, P.O. STREET YORK, NY 10 852-9855 CONSULTING NEERING, P.O. VORK, NY 10 852-9855 CONSULTING NEERING, P.O. STREET YORK, NY 10 852-9855 CONSULTING NEERING NE	RATORY SCHOOL RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL Road le, NY 10804 NICAL SCHEDULES I b No. Date Drawing No.
1. No. STRI DOMI ASSO 143 NYAC 845- MEP JMV ENGI 37 W 212- Stamp Stamp Project ION 255 New Drawit	JCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CK, NY 10960 727-7793 ENGINEER CONSULTING NEERING, P.C. NEERING, P.C. NEERING, P.C. SOUTION AND STREET YORK, NY 10 852-9855 CONSULTING NEERING, P.C. STREET YORK, NY 10 852-9855 CONSULTING NEERING, P.C. NEERING, P.C. N	RATORY SCHOOL RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL Road le, NY 10804 NICAL SCHEDULES I b No. Date Drawing No. -2723 04/03/2019
1. No. STRU DOMI ASSO 143 NYAC 845- JENGI 37 W NEW 212- Stamp Stamp Project ION 255 NeW Project ION 255 NeW Drawit	JCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CK, NY 10960 727-7793 ENGINEER CONSULTING NEERING, P.C. NEERING, P.C. NEERING, P.C. SOUTION AND STREET YORK, NY 10 852-9855 CONSULTING NEERING, P.C. STREET YORK, NY 10 852-9855 CONSULTING NEERING, P.C. NEERING, P.C. N	RATORY SCHOOL RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL Road le, NY 10804 NICAL SCHEDULES I b No. Date Drawing No.
1. No. STRI DOMI ASSO 143 NYAC 845- MEP JMV ENGI 37 W 212- Stamp Stamp Project ION 255 New Drawit	JCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CK, NY 10960 727-7793 ENGINEER CONSULTING NEERING, P.C. NEERING, P.C. NEERING, P.C. SOUTION AND STREET YORK, NY 10 852-9855 CONSULTING NEERING, P.C. STREET YORK, NY 10 852-9855 CONSULTING NEERING, P.C. NEERING, P.C. N	RATORY SCHOOL RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL Road le, NY 10804 NICAL SCHEDULES I b No. Date Drawing No. -2723 04/03/2019
1. No. STRU DOMI ASSO 143 NYAC 845- JMV ENGI 37 W 212- Stamp Stamp Projec ION 255 NeW Drawn	CIURAL & S ICTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET C.N. NY 10960 727-7793 ENGINEER CONSULTING NEERING, P.C. 39 STREET YORK, NY 10 852-9855 2 2 2 2 2 3 2 3 3 4 4 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7	RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL Road le, NY 10804 NICAL SCHEDULES I NO. Date -2723 04/03/2019 M-601
1. No. STRI DOMI ASSO 143 NYAC 845- MEP JMV ENGI 37 W NEW 212- Stamp Stamp Project ION. 212- Stamp Droject ION. 255 NeW Drawn	Cisolfi Assoc Gisolfi Assoc Citation Area	RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL Road le, NY 10804 NICAL SCHEDULES I b No. Date -2723 04/03/2019 M-601
1. No. STRI DOMI ASSO 143 NYAC 845- MEP JMV ENGI 37 W NEW 212- Stamp Stamp Stamp Project ION. 255 NeW Drawn Scale NTS Drawn	Consulting NEERING, P.C. MAIN STREET CK, NY 10960 727-7793 ENGINEER CONSULTING NEERING, P.C. S9 STREET YORK, NY 10 852-9855 CONSULTING NEERING, P.C. 39 STREET YORK, NY 10 852-9855 CONSULTING NEERING, P.C. 39 STREET YORK, NY 10 852-9855 CONSULTING NEECHAI CONSULTION AND UL VERNI CAN ADDREPA WILMONT NECHAI MECHAI Gisolfi Associated Construction Avenues (78 3677)	RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL Road le, NY 10804 NICAL SCHEDULES I b No. Date -2723 04/03/2019 M-601

					SPLIT	COOLING	COIL SCHED	ULE							
	INDO	OOR EVAPORATO	R SECTION				OUTDOOR CON		R SEC	TION		NOMINAL			
CC DESIGN.	SERVICE	LOCATION	MODEL NUMBER	PHYSICAL DIMENSIONS Lxwxh	ACCU DESIGN.	MODEL NUMBER	ELECTRICAL (VOLT/HZ/PHASE)	MCA	MOP	PHYSICAL DIMENSIONS LxWxH	WEIGHT (LBS.)	COOLING CAPACITY	MANUFACTURER	EER	SEER
CC-1	EAST VERNI	MECH CL. 155	4PXACU48	21-1/8"x19-3/4"x24-7/8"	ACCU-7	4774048	208/60/3	18	3Ø	37-1/4"x34-1/4"x29-1/8"	୲ଌ୨	4 TONS	TRANE	12.5	15.0
CC-2	NORTH VERNI	MECH RM 162	4PXACU48	21-1/8"x19-3/4"x24-7/8"	ACCU-8	41144048	208/60/3	18	3Ø	37-1/4"x34-1/4"x29-1/8"	୲ଌ୨	4 TONS	TRANE	12.5	15.0
CC-3	SOUTH VERNI	MECH RM 162	4PXCCU60	21"x21-1/2"x3Ø-11/16"	ACCU-9	4TTA3060	208/60/3	21	35	37-1/4"x34-1/4"x37-1/4"	226	5 TONS	TRANE	11.5	13.5

					Co		FURNACE SC		Ξ						
	FURNACE DESIGN.	SERVICE	LOCATION	MANUFACTURER	MODEL NUMBER	STAGE 1 HEATING INPUT/OUTPUT (MBH)	STAGE 2 HEATING: INPUT/OUTPUT (MBH)	AFUE	HEATING TEMP RISE	CFM	MOTOR HP	ELECTRICAL (VOLT/HZ/PHASE)	MOP	WEIGHT (LBS.)	PHYSICAL DIMENSIONS LXWXH
ł	FURN-1	EAST VERNI	MECH CL. 155	TRANE	58×2BØ8Ø	52/41.6	80/64	80%	50.15°F	1600	3/4	120/60/1	15 A	129	29"×18"×34"
Į	FURN-2	NORTH VERNI	MECH RM 162	TRANE	5 8×2BØ8Ø	52/41.6	80/64	80%	50.15°F	1600	3/4	120/60/1	15 A	129	29"x18"x34"
{	FURN-3	SOUTH VERNI	MECH RM 162	TRANE	58×2BØ8Ø	52/41,6	80/64	80%	50.15°F	2000	3/4	120/60/1	15 A	129	29"x18"x34"

											EN	ERGY F	RECOVERY	UNIT									
				FRESH	SPACE	SPACE		WINTER OPERATIO	DN .		SUMMER OPER	ATION	UNIT E		CAL CHA	R		PHYSICA	L SIZE				
UNIT NO.	SERVICE	LOCATION	FRESH AIR FLOW (CFM)		EXHAUST AIR FLOW (CFM)	EXHAUST	ROOM AIR (*F)	TOTAL EFFECTIVENESS	OUTSIDE AIR (*F)	ROOM AIR (*F)	TOTAL EFFECTIVENESS	OUTSIDE AIR (*F)	VOLTS-PHASE	ΗP	МСА	MOCP	LENGTH	WIDTH	HEIGHT	MAX WEIGHT (LBS)	MANUFACT.	MODEL*	FITRATION
ERV-1	IST FLR	ROOF	1,500	1.Ø	1,533	1.0	٦Ø	66.0%	13.9	75	50.3%	92.4	2Ø8/3/6Ø	2 @ 15	10.8	15	87.5"	43.4"	43.9"	689	RENEWAIRE	HE-2XJRTV-635UU	FRESH AIR = MER EXHAUST AIR = M
ERY-2	2ND FLR	ROOF	1,500	Ø.75	1,524	0.5	٦Ø	66.0%	13.9	75	50.3%	92.4	208/3/60	2 @ 15	10.8	15	87.5"	43.4"	43.9"	689	RENEWAIRE	HE-2XJRTY-635UU	FRESH AIR = MER EXHAUST AIR = M
		DON RENEU						GHMARK - 646-84	49-6441	•	ROVIDE BACKDE						PROVIDE D	Igital tim	E CLOCK (-

* STANDARD FEATURES: NON-FUSED DISCONNECT, 24 VAC TRANSFORMER/RELAY PACKAGE * PROVIDE TWO (2) ADDITIONAL MERY & FILTERS

UNIT LOCATION BOILER INPUT THERMAL BOILER OUTPUT (BTUH) BOILER OUTPUT (BTUH) MANUFACTURER MODEL NO. OPERATING DIMENSIONS VENT PIPE CONNECTION SIZING GAS COMBUSTION AIR SIZE MANUFACTURER MODEL NO. OPERATING UNACTURER MODEL NO. OPERATING UNACTURER MODEL NO. OPERATING DIMENSIONS VENT PIPE CONNECTION SIZING GAS COMBUSTION AIR SIZE MANUFACTURER MODEL NO. OPERATING UNACTURER MODEL NO. OPERATING DIMENSIONS VENT PIPE CONNECTION SIZING GAS COMBUSTION AIR SIZE MANUFACTURER MODEL NO. OPERATING UNACTURER MODEL NO. OPERATING DIMENSIONS VENT PIPE CONNECTION SIZING GAS COMBUSTION AIR SIZE MANUFACTURER MODEL NO. OPERATING UNACTURER MODEL NO. OP		
		R RELIEF VALVE MAX WORK
NO. LOCATION (BTUH) Efficiency (BTUH) MAX/MIN AFUE. MAX MAX MODELE NO. WEIGHT (U × D × H) DIAMETER HWG&R BOILER CONDENSATE DRAIN CONDECTION SIZE AIR SIZE	(GPM) (GAL)	RATING
B-1 MECH RM 500,000/ 50,000 97.7% 489,000 LOCHINVAR FTX500N 460 26¼"x27½"x53½" 4" DIA 2" DIA 1" DIA 1" DIA 1" DIA 4" DIA 4" DIA	10/105 3.5	50 PSI 160 PS
B-2 MECH RM 500,000/ 50,000 97.7% 489,000 LOCHINVAR FTX500N 460 26¼"x27½"x53½" 4" DIA 2" DIA 1" DIA 1" DIA 1" DIA 4" DIA 4" DIA	10/105 3.5	50 PSI 160 PS

CONTROLS, ALL SAFETIES, PUMP CONTROLS, ETC.

			CIRC	ULATOR	r pump schi	EDULE					
PUMP NO.	LOCATION	DUTY	MODEL	MER	TYPE	WATER TEMP. (°F)	GPM	HEAD (FT.H ₂ O)	RPM	MOTOR HP	ELEC.CHAR (VOLTS-PHASE)
BP-1	MECH. RM.	BOILER CIRCULATOR	ECOCIRC XL 20-140	BŧG	CIRCULATOR	140	100 (MAX)	10	-	1/2	208/1/60
BP-2	MECH. RM.	BOILER CIRCULATOR	ECOCIRC XL 20-140	BłG	CIRCULATOR	140	100 (MAX)	10	-	1/2	208/1/60
CP-1	MECH. RM.	AIR HANDLER HEATING LOOP	ECOCIRC XL 65-130	BłG	CIRCULATOR	140	55	25	-	1	208/1/60
CP-2	MECH. RM.	RADIATOR HEATING LOOP	ECOCIRC XL 65-130	B 4 G	CIRCULATOR	140	40	35	-	1	208/1/60

	RADIATOR SCHEDULE											
DESIGNATION	DESIGNATION BTUH SECTIONS WATER WIDTH HEIGHT LENGTH MANUFACTURER TYPE											
RAD-A	RAD-A 550/FT SEE 160°F 3 1/3" 10 3/4" SEE VULCAN LC-209											
RAD-B	RAD-B 5909 19 160"F 5 % 8" 63" JAGA MINI FREESTANDI											
RAD-C												

* PROVIDE PAINTABLE 6" LOUVERED WALL VENT * PROVIDE TEMPERATURE SENSOR - DUCT MOUNT (DS-600)

	AIR SEPARATOR SCHEDULE											
UNIT DES.	SERVICE CAPACITY MODEL STRAINER AND A STRAINER											
AS-1	AS-1 HOT WATER 190 3" RL-3F N 1 BELL & GOSSETT											

	EXPANSION TANK SCHEDULE											
UNI			TOTAL SYSTEM	TANK	TANK	DIMENS		WATER LOGGED				
DES	DES. SERVICE FLUID STSTEIN TOTAL VOL. ACCEPTANCE HEIGHT DIA WEIGHT WODEL MANUFACTURER REMARKS (GAL)											
ET-	ET-1 HOT WATER HEATING SYSTEM WATER TØ 10.9 2.4 26-1/2" 12" 136 D-20V BELL & GOSSETT DIAPHRAGM-TYPE TYPICAL FOR 1											



	ALLE HOLE	STRATTON RD
//		VERNI RENO. NEW P.A.C.
	9	
Key	7 Plan	(not to scale
11. 10.	6/23/2021 6/18/2021	BID ADDENDUM 5 ISSUED FOR BUILDING PERMIT
9. 8.	6/09/2021	RE-ISSUED FOR BUILDING PERMIT REVIEW BID ADDENDUM 1
7. 6.	6/01/2021 5/07/2021	ISSUED FOR BID RE-ISSUED FOR BUILDING PERMIT REVIEW
5.	2/01/2021	ISSUED FOR BUILDING PERMIT REVIEW
4.	10/14/2020	ISSUED FOR PLANNING BOARD REVIEW
4. 3. 2.	10/14/2020 9/23/2020 8/28/2020	ISSUED FOR PLANNING BOARD REVIEW RESUBMITTED FOR ZONING REVIEW ISSUED FOR PRELIMINARY DOB REVIEW
3. 2. 1. No.	9/23/2020 8/28/2020 1/10/2020 Date	RESUBMITTED FOR ZONING REVIEW
3. 2. 1. No. STRI DOM ASSO 143 NYAO 845- MEP JMV ENGI 37 NEW 212-	9/23/2020 8/28/2020 1/10/2020 Date UCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CK, NY 10960 -727-7793 ENGINEER CONSULTING INEERING, P.0 7. 39 STREET YORK, NY 10 -852-9855	RESUBMITTED FOR ZONING REVIEW ISSUED FOR PRELIMINARY DOB REVIEW ISSUED FOR DD ESTIMATE Revision/Submission ITE CIVIL ENGINEER A COPFING CONSULTANT WATSKY ASSOCIATES
3. 2. 1. No. STRI DOM ASSC 143 NYAC 845- JMV ENGI 37 V NEW 212- Stamj	9/23/2020 8/28/2020 1/10/2020 Date UCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CK, NY 10960 -727-7793 ENGINEER CONSULTING INEERING, P.0 7. 39 STREET YORK, NY 10 -852-9855	RESUBMITTED FOR ZONING REVIEW ISSUED FOR PRELIMINARY DOB REVIEW ISSUED FOR DD ESTIMATE Revision/Submission ITE CIVIL ENGINEER A CO ROOFING CONSULTANT WATSKY ASSOCIATES CO AUDION AUDIO
3. 2. 1. No. STRI DOM ASSO 143 NYAO 845- MEP JMV ENGI 37 W NEW 212- Stamp Stamp V ENGI 37 W NEW 212- Stamp UNE NEW 212- Stamp	9/23/2020 8/28/2020 1/10/2020 Date UCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CK, NY 10960 -727-7793 ENGINEER CONSULTING INEERING, P.C. 39 STREET YORK, NY 10 -852-9855 P ct Title A PREPA DITION AN	RESUBMITTED FOR ZONING REVIEW ISSUED FOR PRELIMINARY DOB REVIEW ISSUED FOR DD ESTIMATE Revision/Submission ITE CIVIL ENGINEER A CO ROOFING CONSULTANT WATSKY ASSOCIATES CO AVENUE
3. 2. 1. No. STRI DOM ASSO 143 NYAO 845- MEP JMV ENGI 37 W NEW 212- Stamp Stamp Project ION ADI PAU Project ION 255	9/23/2020 8/28/2020 1/10/2020 Date UCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CONSULTING INEERING, P.C. JORK, NY 10960 -727-7793 ENGINEER CONSULTING INEERING, P.C. JORK, NY 10 652-9855 P CONSULTING INEERING, P.C. JORK, NY 10 652-9855 P CONSULTING INEERING, P.C. JORK, NY 10 652-9855 P CONSULTING INEERING, P.C. JORK, NY 10 CONSULTING INEERING, P.C. JORK, NY 10 CONSULTING INEERING INEERING, P.C. JORK, NY 10 CONSULTING INEERING	RESUBMITTED FOR ZONING REVIEW ISSUED FOR PRELIMINARY DOB REVIEW ISSUED FOR DD ESTIMATE Revision/Submission ITTE CIVIL ENGINEER A S ROOFTING CONSULTANT WATSKY ASSOCIATES 20 MADISON AVENUE STE 703 VALHALLA, NY 10595 0018 914-948-3450 RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER
3. 2. 1. No. STRI DOM ASSO 143 NYAO 845- MEP JMV ENGI 37 W NEW 212- Stamp Stamp Project ION ADI PAU Project ION 255 New Drawi	9/23/2020 8/28/2020 1/10/2020 Date UCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CONSULTING INEERING, P.C. MAIN STREET CONSULTING INEERING, P.C. JORK, NY 10 052-9855 P CONSULTING INEERING, P.C. JORK, NY 10 052-9855 P CONSULTING INEERING INEERING, P.C. JORK, NY 10 052-9855 P CONSULTING INEERING I	RESUBMITTED FOR ZONING REVIEW ISSUED FOR PRELIMINARY DOB REVIEW ISSUED FOR DD ESTIMATE Revision/Submission ITTE CIVIL ENGINEER A S ROOFING CONSULTANT WATSKY ASSOCIATES 20 MADISON AVENUE , STE 703 VALHALLA, NY 10595 0018 914-948-3450 RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL ROAD
3. 2. 1. No. STRI DOM ASSC 143 NYAC 845- MEP JMV ENGI 37 W 212- Stamp Project ION ADI PAU Project ION 255 New Drawis Scale	9/23/2020 8/28/2020 1/10/2020 Date UCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CK, NY 10960 -727-7793 ENGINEER CONSULTING INEERING, P.C. 39 STREET YORK, NY 10 652-9855 P CONSULTING NEERING, P.C. 39 STREET YORK, NY 10 652-9855 P CONSULTING NEERING, P.C. A PREPA DITION AN UL VERNI CT Address A PREPA Wilmot V Rochell ng Title MECHAN	RESUBMITTED FOR ZONING REVIEW ISSUED FOR PRELIMINARY DOB REVIEW ISSUED FOR DD ESTIMATE Revision/Submission ITTE CIVIL ENGINEER A Colspan="2">Consultant WATSEY ASSOCIATES 20 MADISON AVENUE 20 MADISON 20 MADISON AVENUE 20 MADISON 20
3. 2. 1. No. STRI DOM ASSO 143 NYAO 845- MEP JMV ENGI 37 W 212- Stamp Project ION ADI PAU Project ION 255 New Drawi	9/23/2020 8/28/2020 1/10/2020 Date UCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CONSULTING INEERING, P.C. JOB STREET YORK, NY 10 652-9855 P CONSULTING INEERING, P.C. A PREPA DITION AN JL VERNI CA PREPA WILMOT V Rochell ING Title MECHAN JOI S 20-	RESUBMITTED FOR ZONING REVIEW ISSUED FOR PRELIMINARY DOB REVIEW ISSUED FOR DD ESTIMATE Revision/Submission ITE CIVIL ENGINEER A S S ROOFING CONSULTANT WATSKY ASSOCIATES 20 MADISON AVENUE 20 MADISON 20 MADISON AVENUE 20 MADISON AVENUE 20 MADISON AVENUE 20 MADISON AVENUE 20 MADISON AVENUE 20 MADISON 20 MADIS
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3. 2. 1. No. STRI DOM ASSO 143 NYAC 845- MEP JMV ENGI 37 W NEW 212- Stamp Stamp Project ION ADI PAU Project ION ADI PAU Project ION 255 NeW Drawn Project ION 255 NeW Drawn Project ION 255 NeW Drawn Project ION 255 NeW Project ION 100 100 100 100 100 100 100 10	9/23/2020 8/28/2020 1/10/2020 Date UCTURAL & S INICK R PILL OCIATES, P.C. MAIN STREET CONSULTING INEERING, P.C. SO STREET YORK, NY 10 600 CONSULTING INEERING, P.C. SO STREET YORK, NY 10 600 CONSULTING NEERING, P.C. SO STREET YORK, NY 10 600 CONSULTING CONSUL	RATORY SCHOOL RATORY SCHOOL RATORY SCHOOL RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL RATORY SCHOOL RATORY SCHOOL ROAD RATORY SCHOOL ROAD M-602

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FAN DESIGN.	AREA SERVED	CFM	STATIC PRESSURE (INCHES)	ELEC.CHAR. (V-PH-Hz.)	MOTOR (HP)	FAN TYPE	RPM	MODEL *	MANUFACTURER	DIMENSIONS WXDXH OR DIA (IN)	REMARKS
TEF-1	WOMEN'S RESTROOM 133	25Ø	0.5"	115-1-60	1/2Ø	ROOF MOUNTED	1550	G- <i>080</i> -DG	GREENHECK	19.4×19.4×12.1	INTEGRATE INTO LIGHTING CONTROL FOR ROOM AND OPERATE ON 15 MIN TIME DELAY AFTER LIGHTS TURN OFF. PROVIDE VARIGREEN DIAL CONTROL.
TEF-2	MEN'S RESTROOM 139	25Ø	0.5"	115-1-60	1/2Ø	ROOF MOUNTED	1550	G- <i>080</i> -DG	GREENHECK	19.4×19.4×12.1	INTEGRATE INTO LIGHTING CONTROL FOR ROOM AND OPERATE ON 15 MIN TIME DELAY AFTER LIGHTS TURN OFF. PROVIDE VARIGREEN DIAL CONTROL.
GEF-1	SCENE SHOP 122/ ART STUDIO 222	500	<i>0.</i> 4"	115-1-60	1/6	ROOF MOUNTED	1550	G- <i>0</i> 90-VG	GREENHECK	21.75×21.75×14.6	PROVIDE LOCAL SWITCH IN SCENE SHOP AND ART STUDIO. PROVIDE VARIGREEN DIAL CONTROL.
0AF-1	SCENE SHOP 122/ ART STUDIO 222	500	<i>0.</i> 4"	115-1-60	1/6	IN-LINE	1550	SQ-95-∨G	GREENHECK	15×16×15	INTERLOCK OAF-1 WITH GEF-1 SERVING SCENE SHOP AND ART STUDIO. PROVIDE VARIGREEN DIAL CONTROL.
SAF-1	LOBBY FOYER 103	1400	0.5"	115-1-60	1/3	ROOF MOUNTED	1480	CUE-121	GREENHECK	25×28×25	-
6AF-2	LOBBY FOYER	1400	0.5"	115-1-60	1/3	ROOF MOUNTED	1480	CUE-121	GREENHECK	25×28×25	-
RAF-1	FURN-1	1600	Ø.25"	115-1-60	-	IN-LINE	1325	C3P-A1750	GREENHECK	35×15×15	INTERLOCK RAF WITH UNIT SUPPLY FAN. PROVIDE DIAL SPEED CONTROL.
RAF-2	FURN-2	1600	Ø.25"	115-1-60	-	IN-LINE	1325	CSP-A1750	GREENHECK	35×15×15	INTERLOCK RAF WITH UNIT SUPPLY FAN. PROVIDE DIAL SPEED CONTROL.
RAF-3	FURN-3	2000	Ø.25"	115-1-60	-	IN-LINE	790	CSP-A2150	GREENHECK	35×15×15	INTERLOCK RAF WITH UNIT SUPPLY FAN. PROVIDE DIAL SPEED CONTROL.
•	- Cumunu	in the second	7								

	FLOW BAR DIFFUSER SCHEDULE *RETURN AIR BASED ON 500 FPM												
DESIGNATION	TYPE	NOMINAL FLOWBAR OPENING (IN)	* OF SLOTS	CFM/FT	TOTAL LENGTH (FT)	ACTIVE LENGTH (FT)	TOTAL SUPPLY (CFM)	NC	MAX. THROW	MOUNTING	BORDER TYPE	MODEL	REMARKS
FBJ-1	SUPPLY / RETURN	1"	1	5: 70 R: 42	SEE PLAN	SEE PLAN	VARIES	2Ø	2Ø	WALL/CEILING	22	FL-10 JT	PROVIDE I" LINED PLENUM BOX
FBJ-15	SUPPLY / RETURN	1,5"	1	S: 120 R: 63	SEE PLAN	SEE PLAN	VARIES	22	26	WALL/CEILING	22	FL-15 JT	PROVIDE I" LINED PLENUM BOX
FBJ-2	SUPPLY / RETURN	2"	1	5: 195 R: 84	SEE PLAN	SEE PLAN	VARIES	29	34	WALL	22	FL-2Ø JT	PROVIDE 1" LINED PLENUM BOX
FBH-1	SUPPLY / RETURN	ln.	1	S: 55 R: N/A	SEE PLAN	SEE PLAN	VARIES	26	21	CEILING	22	FL-10 HT	PROVIDE I" LINED PLENUM BOX
FBH-15	SUPPLY / RETURN	1,5"	1	9: 60 R: N/A	SEE PLAN	SEE PLAN	VARIES	31	25	CEILING	22	FL-15 HT	PROVIDE I" LINED PLENUM BOX
FBH-2	SUPPLY / RETURN	2"	1	9: 75 R: N/A	SEE PLAN	SEE PLAN	VARIES	33	27	CEILING	22	FL-2Ø HT	PROVIDE I" LINED PLENUM BOX

SELECTIONS BASED ON "TITUS" MANUFACTURER

-PROVIDE SOUND ATTENUATION FOR ALL SUPPLY AND RETURN PLENUM BOXES

-DUCTWORK FABRICATOR TO VERIFY PLENUM SIZES WITH ALL CONSTRUCTION DETAILS. COORDINATE WITH G.C. FOR CUSTOM CUTS TO ACCOMMODATE FRAMING. -PROVIDE BLANK OFFS FOR UNUSED SECTION OF FLOUBAR (ACCESSORY MODEL* FBBØ BLANK-OFF) -PROVIDE INSULTED RETURN HOOD / LIGHT SHIELD FOR PLENUM RETURN SECTIONS OF FLOWBAR (ACCESSORY MODEL * FBRI INSULATED RETURN HOOD / LIGHT SHIELD) -FOR PORTIONS OF HIGH-THROW FLOWBAR THAT ARE UTILIZED FOR RETURN CONTRACTOR RESPONSIBLE FOR FIELD CUTTING OUT BAFFLE AND INSTALL INSULATED RETURN HOOD/PLENUM.

	ELECTRIC CABINET HEATER SCHEDULE										
DESIGNATION	BIGNATION LOCATION HEATER TYPE KW ELEC.CHAR SERIES MODEL MANUFACTURE										
ECH-1	MECHANICAL ROOM	FAN FORCED WALL HEATER	3	208-1	AWFA	AWFA3008	STELPRO				
ECH-2	STORAGE	FAN FORCED WALL HEATER	3	208-1	AWFA	AWFA3008	STELPRO				
ECH-3	STORAGE	FAN FORCED WALL HEATER	3	208-1	AWFA	AWFA3008	STELPRO				
ECH-4	STAIR I-B	FAN FORCED WALL HEATER	3	208-1	AWFA	AWFA3008	STELPRO				
ECH-5	MECHANICAL ROOM	FAN FORCED WALL HEATER	3	208-1	A₩FA	AWFA3008	STELPRO				

*PROVIDE ADAPTOR KIT FOR SIDES OF HEATER WHEN NOT RECESSED IN WALL. WHEN UNIT CAN BE RECESSED THEY SHOULD BE. COORDINATE EACH LOCATION WITH ARCHITECT. *PROVIDE WALL MOUNTED DIGITAL THERMOSTAT

CEILING DIFFUSER SCHEDULE												
DESIGNATION NOMINAL SIZE MODEL NECK CFM RANGE MAX. NAX. REMARKS												
12×12	OMNI	8"	Ø-244	16	דו	SQUARE CEILING DIFFUSER						
24×24	OMNI	8"	Ø-244	10	12	SQUARE CEILING DIFFUSER						
24×24	OMNI	10"	245-400	13	דו	SQUARE CEILING DIFFUSER						
22.5"D	R-OMNI	ìØ"	0-400	13	2Ø	CIRCULAR CEILING DIFFUSER						
	SIZE 12×12 24×24 24×24	NOMINAL SIZEMODEL12x12OMNI24x24OMNI24x24OMNI	NOMINAL SIZEMODELNECK SIZE12x12OMNI8"24x24OMNI8"24x24OMNI10"	NOMINAL SIZE MODEL NECK SIZE CFM RANGE 12x12 OMNI 8" 0-244 24x24 OMNI 8" 0-244 24x24 OMNI 8" 0-244	NOMINAL SIZE MODEL NECK SIZE CFM RANGE MAX. THROW 12x12 OMNI 8" 0-244 16 24x24 OMNI 8" 0-244 10 24x24 OMNI 8" 0-244 10	NOMINAL SIZE MODEL NECK SIZE CFM RANGE MAX. THROW MAX. NC 12x12 OMNI 8" 0-244 16 17 24x24 OMNI 8" 0-244 10 12 24x24 OMNI 8" 245-400 13 17						

SELECTIONS ARE BASED ON "TITUS" MANUFACTURER

*RE IURN	AIR	BASED	ON	500	FPM

SINGLE DEFLECTION RETURN/EXHAUST REGISTER SCHEDULE										

DESIGNATION	CFM	SIZE	NC	MODEL	REMARKS	DESIGNATION	CFM	SIZE	NC	THROU
RR-A	Ø-225Ø	24×24	25	35ØRL	-	SR-A	Ø-285	12×8	15	24
RR-B	0-810	24×12	13	35ØRL	-	SELECTIONS ARE REGISTERS ARE:	DOUBLE DEFL	ECTION WITH :	3/4" BLADE St	PACING,
RR-C	Ø-285	12×8	10	350RL	-	FINAL COLOR SH	STEEL MATERI ALL BE APPR			
RR-D	Ø-3375	42×24	2Ø	350RL	-					

SELECTIONS ARE BASED ON "TITUS" MANUFACTURER. REGISTERS HAVE 35" DEFLECTION WITH 3/4" BLADE SPACING.

FINAL COLOR SHALL BE APPROVED BY ARCHITECT.

	ELECTRIC DUCT HEATER SCHEDULE BASED ON Ø DEG EAT										
		CFM	DUCT	AIR VELOCITY			DUCT HEAT	,			
DESIGNATION	LOCATION	Griff	SIZE	(FPM)	HEATER TYPE	ĸw	NO. OF HEATING STAGES	ELEC.CHAR (VOLTS-PH.)	SIZE	MODEL	REMARKS
EDH-1	NORTH CORRIDOR 203	500	10x10	775	OPEN COIL	11	MODULATING	208-3PH	10×10	QUA	PROPORTIONAL MODULATING CONTROL

BASED ON 'INDEECO' MANUFACTURER.

- "K" CONTROLS OPTION WHICH INCLUDES AUTOMATIC RESET THERMAL CUTOUTS, SAFETY MAGNETIC CONTACTORS, FUSES, TRANSFORMER TO SUPPLY INTERNAL CONTROL CIRCUIT AND SAFETY DISCONNECT SWITCH.

	RNI NO.
11. 6/23/2021 BID ADDENDUM 5 10. 6/18/2021 ISSUED FOR BUILDING PERMIT 9. 6/09/2021 RE-ISSUED FOR BUILDING PERMIT RI 8. 6/09/2021 BID ADDENDUM 1 7. 6/01/2021 ISSUED FOR BID	
6.5/07/2021RE-ISSUED FOR BUILDING PERMIT RE5.2/01/2021ISSUED FOR BUILDING PERMIT REVIEW	W
4. 10/14/2020 ISSUED FOR PLANNING BOARD REVIEW 3. 9/23/2020 RESUBMITTED FOR ZONING REVIEW 2. 8/28/2020 ISSUED FOR PRELIMINARY DOB REVIEW	
1. 1/10/2020 ISSUED FOR DD ESTIMATE No. Date Revision/Submission	
STRUCTURAL & SITE CIVIL ENGINEERDOMINICK R PILLAASSOCIATES, P.C.143 MAIN STREETNYACK, NY 10960845-727-7793MEP ENGINEERJMV CONSULTINGWATSKY ASSOCIATESENGINEERING, P.C.37 W. 39 STREET, STE 703NEW YORK, NY 10018212-852-9855Stamp	
Project Title IONA PREPARATORY SCHOOL ADDITION AND ALTERATION TO THE PAUL VERNI FINE ARTS CENTER	}
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IONA PREPARATORY SCHOOL ADDITION AND ALTERATION TO THE PAUL VERNI FINE ARTS CENTER Project Address IONA PREPARATORY SCHOOL 255 Wilmot Road New Rochelle, NY 10804	
IONA PREPARATORY SCHOOL ADDITION AND ALTERATION TO THE PAUL VERNI FINE ARTS CENTER Project Address IONA PREPARATORY SCHOOL 255 Wilmot Road New Rochelle, NY 10804 Drawing Title	II

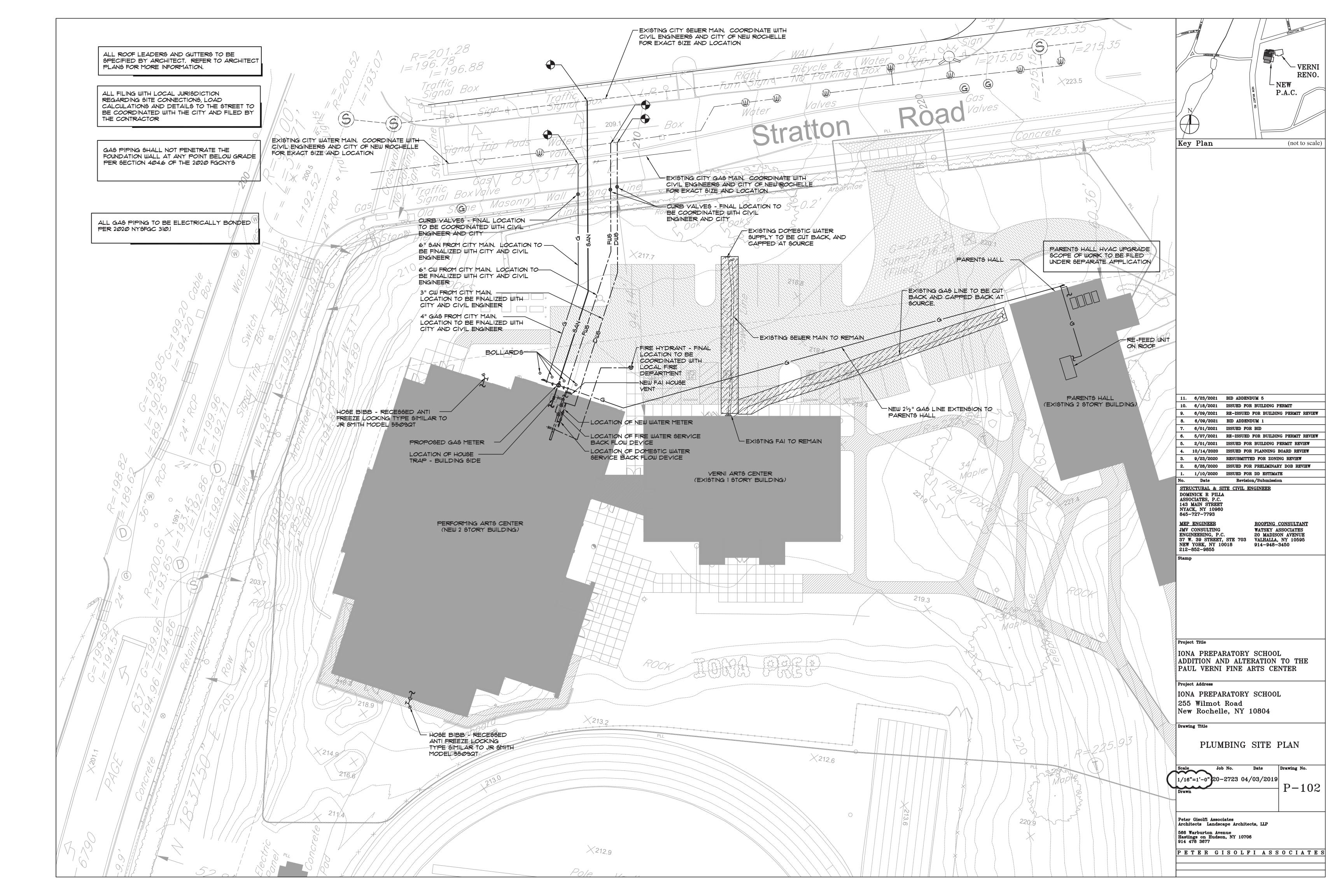
- INCLUDE AIRFLOW INTERLOCK & DUCT MOUNTED THERMOSTAT - INCLUDE OVERTEMPERATURE PROTECTION.

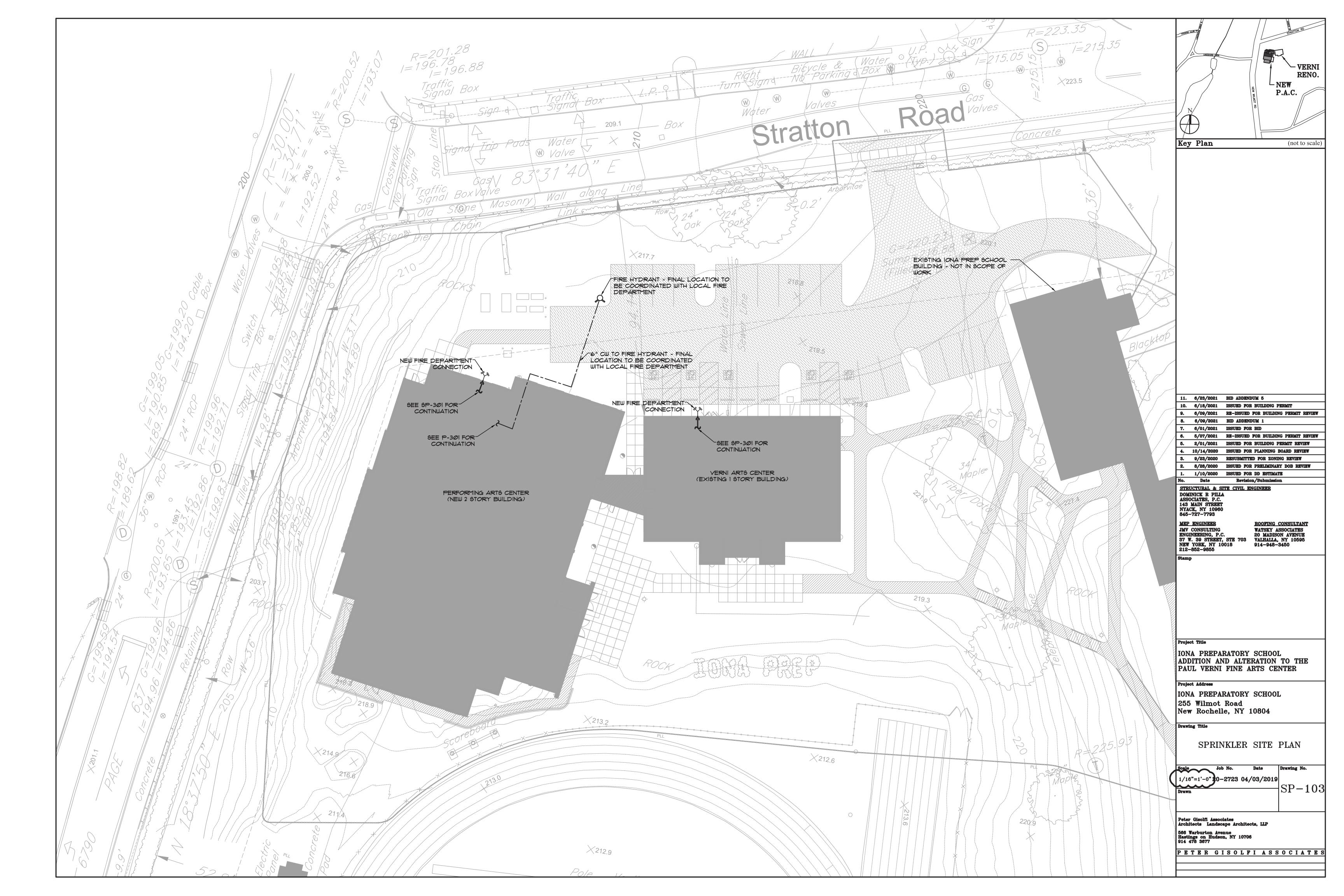
SINGLE DEFLECTION SUPPLY REGISTERS

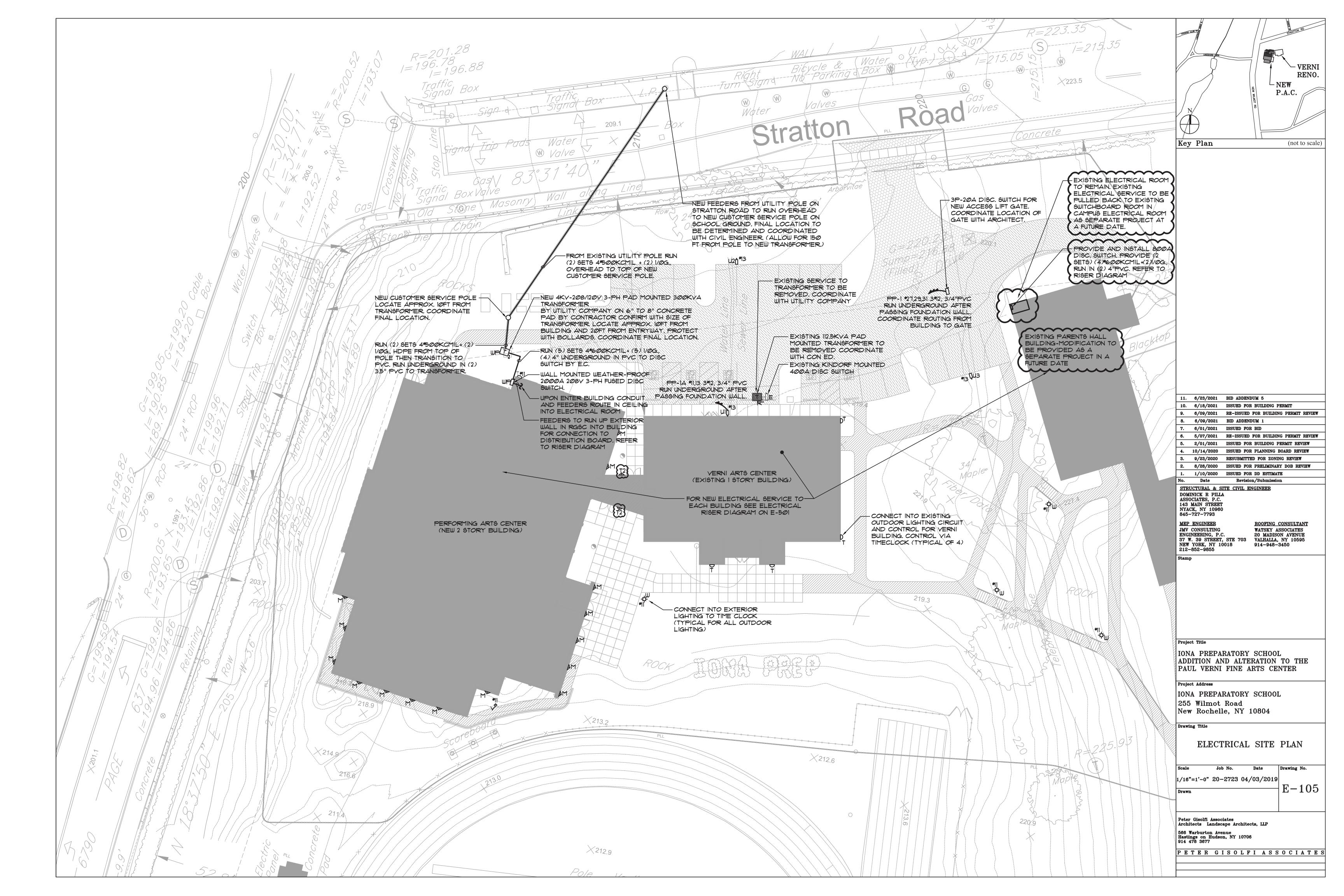
THROW

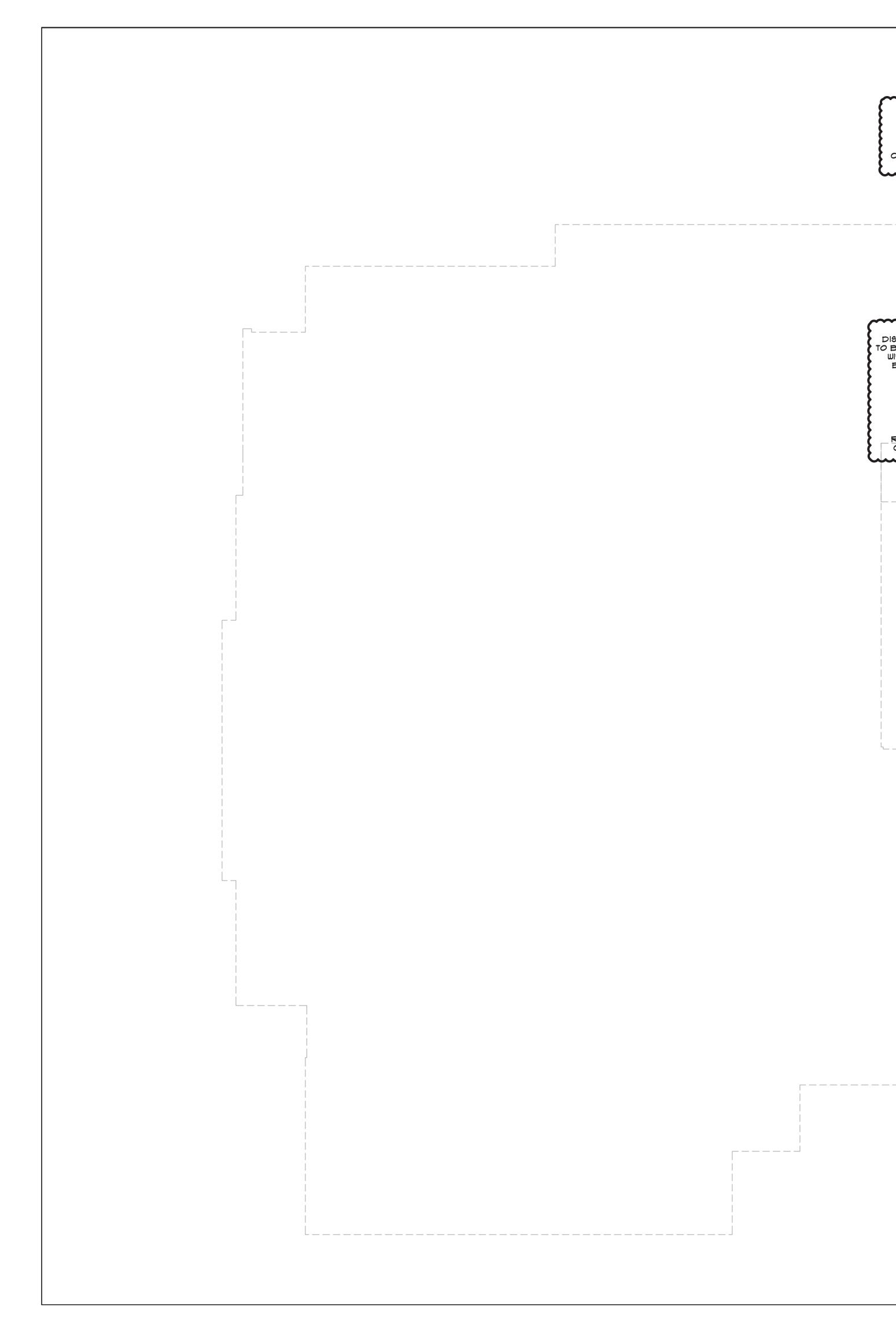
MODEL

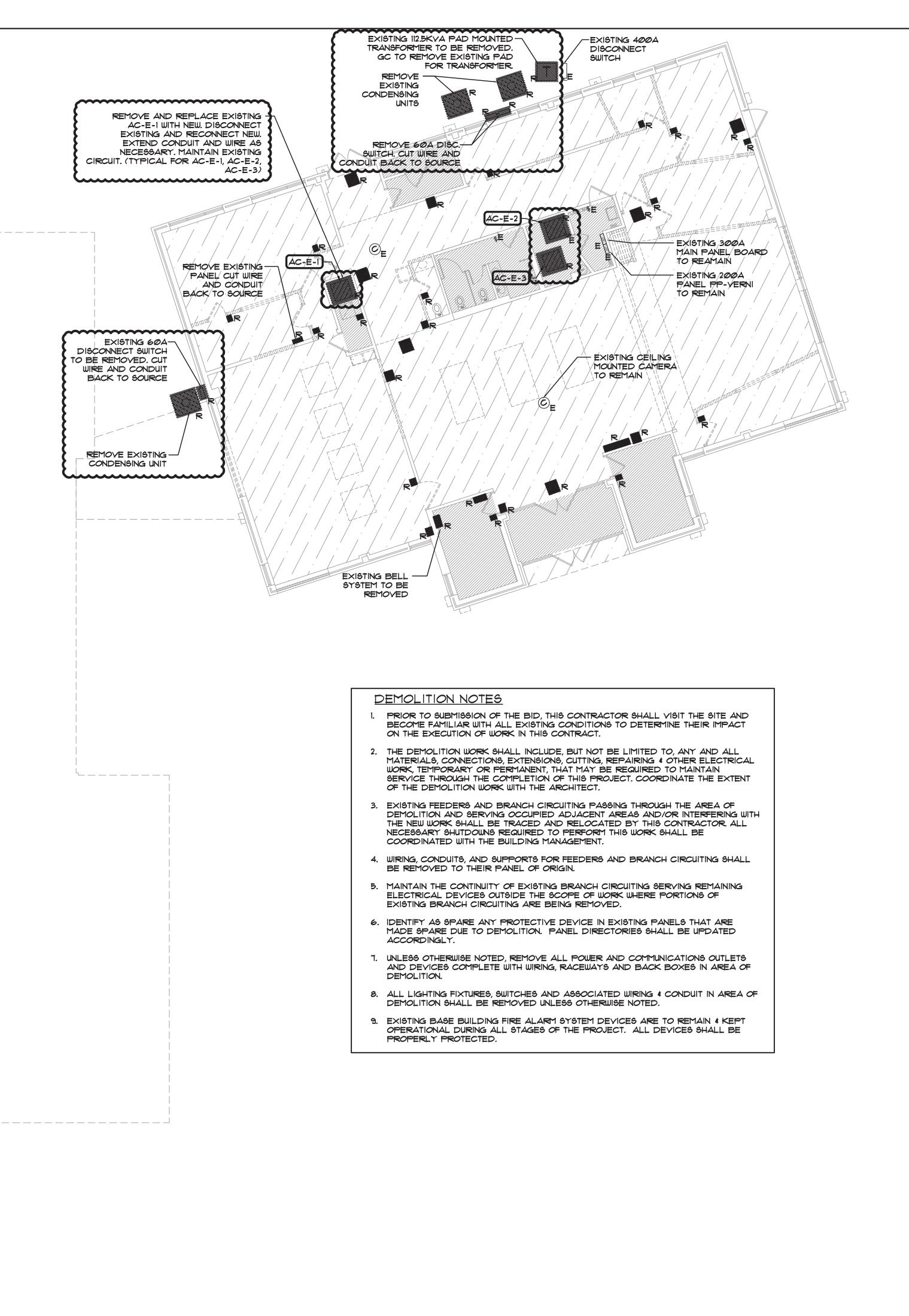
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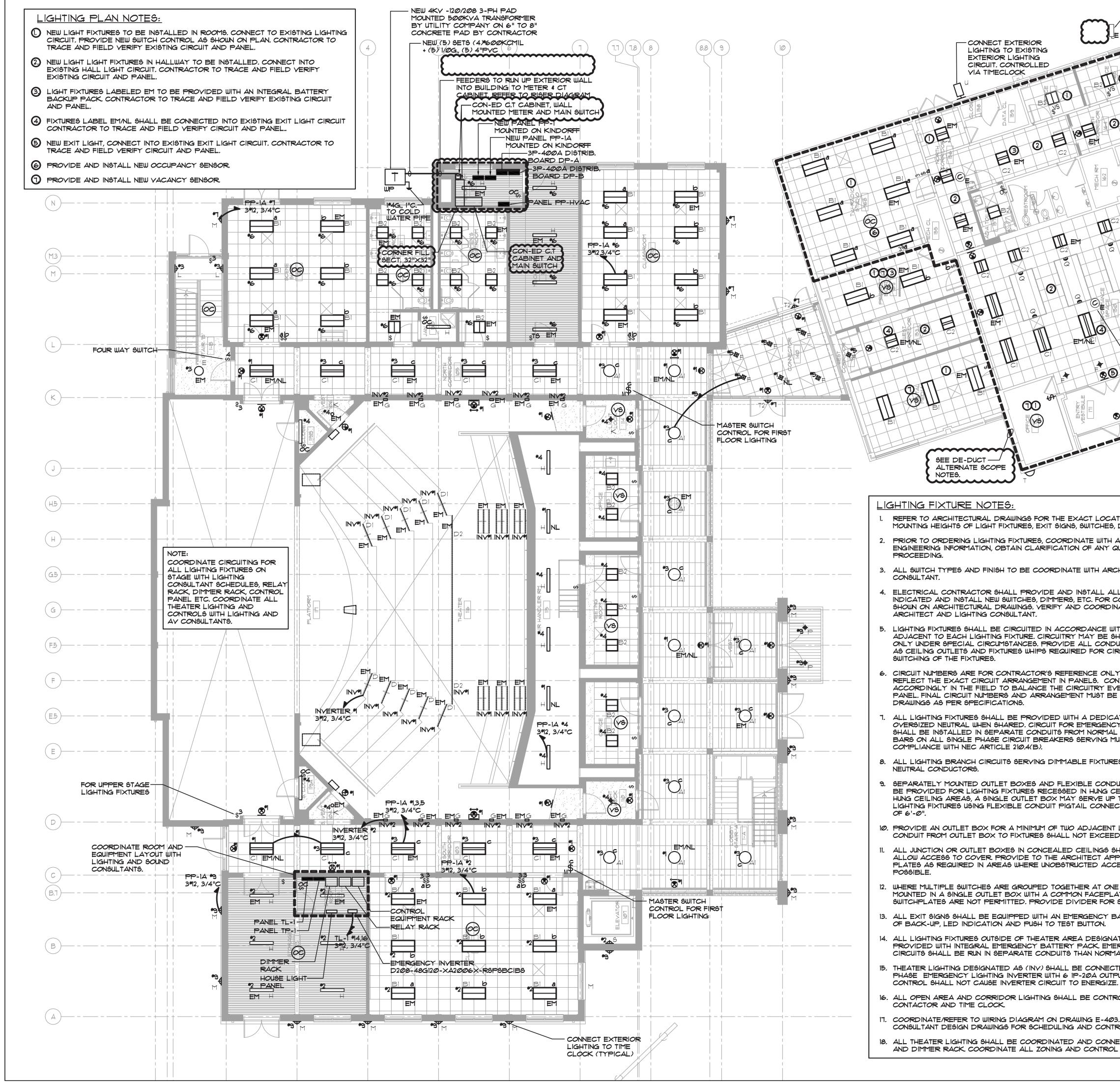




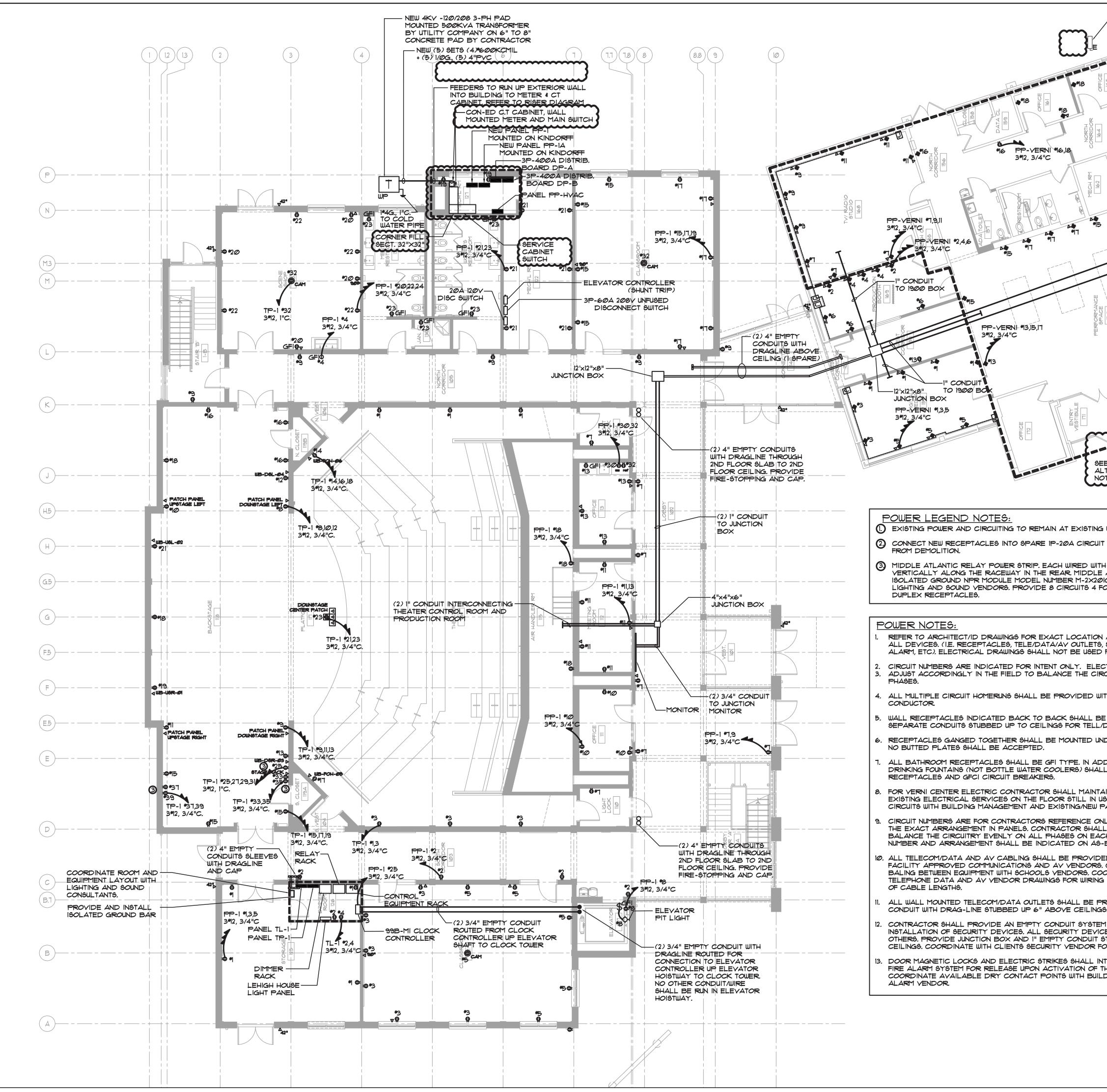




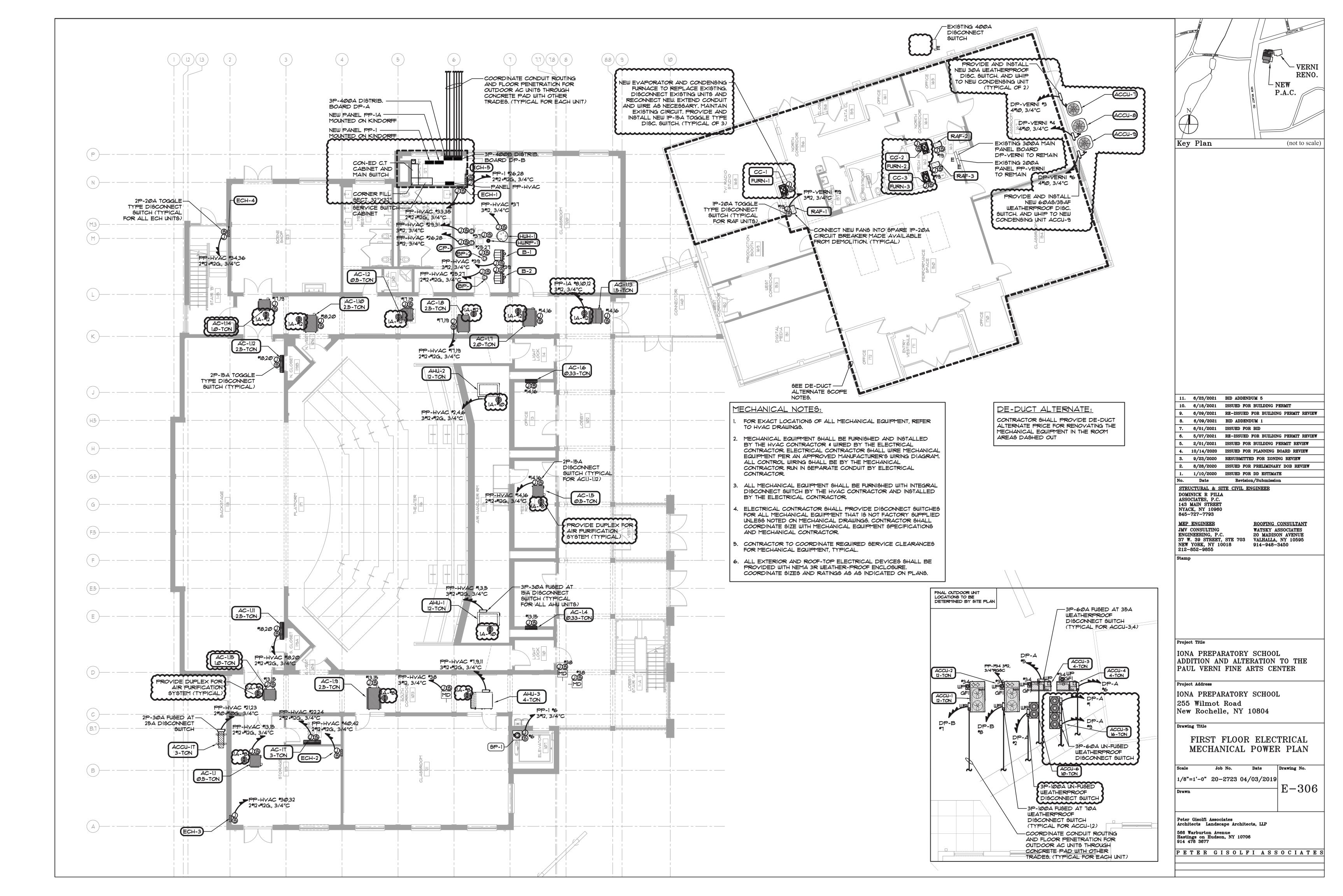
COUNTRY	CUE POL	STRATION RD
	LAKESHORE PRIVE	VERNI
/	\square	RENO.
	J	P.A.C.
(A)	Ď,	
Key	7 Plan	(not to scale)
11.	6/23/2021	BID ADDENDUM 5
	6/18/2021 6/09/2021	RE-ISSUED FOR BUILDING PERMIT REVIEW
8. 7. 6.	6/09/2021 6/01/2021 5/07/2021	BID ADDENDUM 1 ISSUED FOR BID RE-ISSUED FOR BUILDING PERMIT REVIEW
5.	2/01/2021	
4.	10/14/2020	ISSUED FOR BUILDING PERMIT REVIEW ISSUED FOR PLANNING BOARD REVIEW
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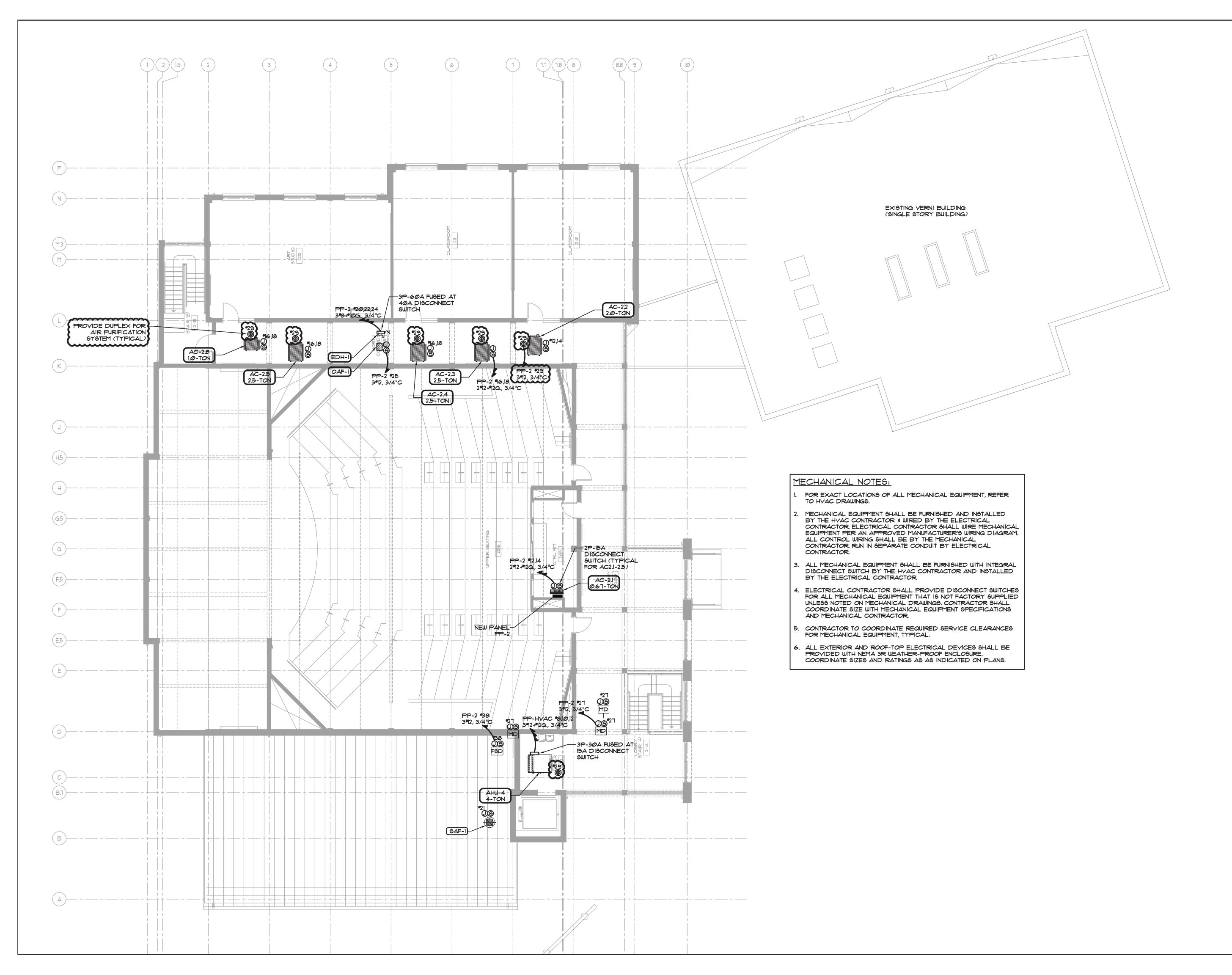


EXISTING KINDORF MOUNTED 400A DISC SWITCH BI O EM EM EM C2 C2 C2 C2 C2 C2 C2 C2 C2 C2 C2 C2 C2	CONNECT EXTERIOR LIGHTING TO EXISTING EXTERIOR LIGHTING CIRCUIT. CONTROLLED VIA TIMECLOCK (TYPICAL OF 4) EXISTING 300A MAIN PANEL BOARD DP-VERNI TO REMAIN. EXISTING 200A PANEL PP-VERNI TO REMAIN	Key Plan (not to scale)
	RA REPLACE AIN EXISTING:	11. 6/23/2021 BID ADDENDUM 5 10. 6/18/2021 ISSUED FOR BUILDING PERMIT 9. 6/09/2021 RE-ISSUED FOR BUILDING PERMIT 8. 6/09/2021 BID ADDENDUM 1 7. 6/01/2021 ISSUED FOR BID 6. 5/07/2021 RE-ISSUED FOR BUILDING PERMIT REVIEW 5. 2/01/2021 ISSUED FOR BUILDING PERMIT REVIEW 4. 10/14/2020 ISSUED FOR PLANNING BOARD REVIEW
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AL LIGHTING CIRCUITS. PROVIDE TIE MULTI-WIRE BRANCH CIRCUITS IN RES SHALL HAVE SEPARATE DUIT PIGTAIL CONNECTIONS SHALL CEILINGS. IN ACCESSIBLE TILE P TO A MAXIMUM OF FOUR (4) ECTIONS WITH A MAXIMUM LENGTH T LIGHT FIXTURES. FLEXIBLE ED 6'-0" IN LENGTH. SHALL BE INSTALLED SO AS TO PROVED ACCESS DOORS OR CESS TO BOX OR OUTLET IN NOT NE LOCATION, THEY SHALL BE ATE. BUTTED OUTLET BOXES AND R SEPARATION OF SERVICE.		Project Title IONA PREPARATORY SCHOOL ADDITION AND ALTERATION TO THE PAUL VERNI FINE ARTS CENTER Project Address IONA PREPARATORY SCHOOL 255 Wilmot Road New Rochelle, NY 10804 Drawing Title FIRST FLOOR ELECTRICAL
BATTERY PACK WITH 90 MINUTES IATED WITH 'EM' SHALL BE IERGENCY LIGHTING / EXIT SIGN MAL LIGHTING CIRCUITS. CTED TO 4.8KVA AT 208V SINGLE 'PUT CIRCUIT BREAKERS. ON/OFF 'E. 'ROLLED WITH LIGHTING 03. COORDINATE WITH THEATER TROL OF THEATER LIGHT FIXTURES. NECTED THROUGH RELAY RACK OL WITH VENDOR ETC.		LIGHTING PLAN Scale Job No. Date Drawing No. 1/8"=1'-0" 20-2723 04/03/2019 Drawn E-301 Peter Gisolfi Associates Architects Landscape Architects, LLP 566 Warburton Avenue Hastings on Hudson, NY 10706 914 478 3677 P E T E R G I S O L F I A S S O C I A T E S

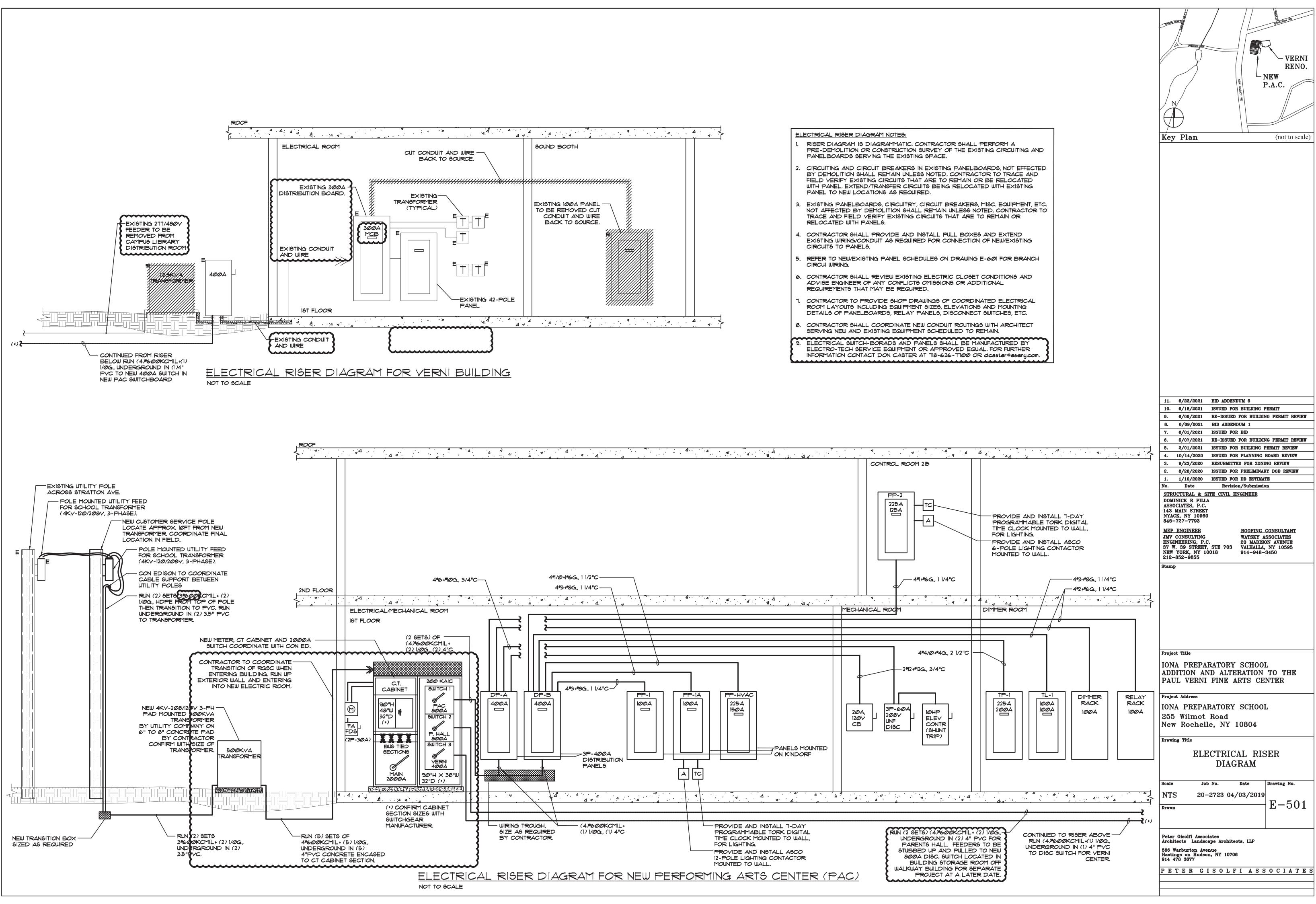


	REMAIN. #126 EXISTING 200A PANEL PP-VERNI TO REMAIN 12,14	Key Plan (not to scale)
E DE-DUCT TERNATE SCOPE DTES.	DE-DUCT ALTERNATE: CONTRACTOR SHALL PROVIDE DE-DUCT ALTERNATE PRICE FOR RENOVATING THE	11. 6/23/2021 BID ADDENDUM 5 10. 6/18/2021 ISSUED FOR BUILDING PERMIT 9. 6/09/2021 RE-ISSUED FOR BUILDING PERMIT REVIEW 8. 6/09/2021 BID ADDENDUM 1 7. 6/01/2021 ISSUED FOR BID 6. 5/07/2021 RE-ISSUED FOR BUILDING PERMIT REVIEW 5. 2/01/2021 ISSUED FOR BUILDING PERMIT REVIEW
BREAKER MADE AVAILABLE + 2 DUPLEX RECEPTACLES RUN ATLANTIC DOUBLE DUPLEX IGA. COORDINATE WITH OR RACK AND 4 TO THE	POWER AND TELE/DATA OUTLETS SHOWN IN THE ROOM AREAS DASHED OUT. PROVIDE AND INSTALL NEW SURFACE MOUNTED RACEWAYS, POWER & TELE/DATA RECEPTACLE OUTLETS WITH I"E.C. STUB-UPS WITH DRAGLINES. NEW OUTLETS SHALL CONNECT INTO EXISTING 120Y CIRCUITS SERVING THESE AREAS. CONTRACTOR TO TRACE AND FIELD VERIFY EXISTING LOCATIONS AND MOUNTING HEIGHTS OF RACEWAYS AS DIRECTED BY ARCHITECT.	4. 10/14/2020 ISSUED FOR PLANNING BOARD REVIEW 3. 9/23/2020 RESUBMITTED FOR ZONING REVIEW 2. 8/28/2020 ISSUED FOR PRELIMINARY DOB REVIEW 1. 1/10/2020 ISSUED FOR DD ESTIMATE No. Date Revision/Submission STRUCTURAL & SITE CIVIL ENGINEER DOMINICK R PILLA ASSOCIATES, P.C. 143 MAIN STREET NYACK, NY 10960 845-727-7793
AND MOUNTING HEIGHTS OF SECURITY DEVICES, FIRE FOR DIMENSIONING. CTRICAL CONTRACTOR SHALL CUITS EVENLY ON ALL TH #IØAUG NEUTRAL E STACKED. PROVIDE	COORDINATE WITH MECHANICAL SYSTEMS, VENDORS EMPTY CONDUITS AND PULLBOXES IN CEILINGS FOR DATA AND CONTROLS CABLING.	MEP ENGINEERROOFING CONSULTANTJMV CONSULTINGWATSKY ASSOCIATESENGINEERING, P.C.20 MADISON AVENUE37 W. 39 STREET, STE 703VALHALLA, NY 10595NEW YORK, NY 10018914-948-3450212-852-9855Stamp
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		Drawn L COOD Peter Gisolfi Associates Architects LLP 566 Warburton Avenue Hastings on Hudson, NY 10706 914 478 3677 P E T E R G I S O L F I A S S O C I A T E S



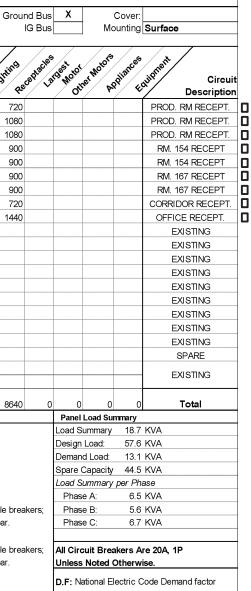


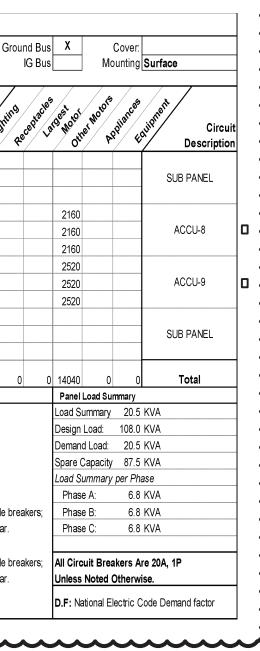
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JMV ENG 37 V NEW 212- Stam Stam Proje ION ADI PAU Proje ION 255 NeV	ENGINEER CONSULTING INEERING, P.C. W. 39 STREET YORK, NY 10 -852-9855 P oct Title IA PREPA DITION ANUL VERNI oct Address IA PREPA 5 Wilmot W Rochell ing Title	RATORY SCHOOL FINE ARTS CENTER RATORY SCHOOL RATORY SCHOOL RATORY SCHOOL RATORY SCHOOL
JMV ENG 37 V NEW 212- Stam Stam Proje ION ADI PAU Proje ION 255 NeV	ENGINEER CONSULTING INEERING, P.C. W. 39 STREET YORK, NY 10 -852-9855 P oct Title IA PREPA DITION AN UL VERNI oct Address IA PREPA 5 Wilmot W Rochell ing Title SI ELECTI	ROOFING CONSULTANT WATSKY ASSOCIATES 20 MADISON AVENUE STE 703 VALHALLA, NY 10595 914-948-3450 RATORY SCHOOL VD ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL ROAD RATORY SCHOOL Road le, NY 10804 ECOND FLOOR RICAL MECHANICAL
JMV ENG 37 V NEW 212- Stam Stam Proje ION ADI PAU Proje ION 255 NeV	ENGINEER CONSULTING INEERING, P.C. W. 39 STREET YORK, NY 10 -852-9855 P Control And Control And Contro	RATORY SCHOOL VATSKY ASSOCIATES Solia 914-948-3450 RATORY SCHOOL VD ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL RATORY SCHOOL RATORY SCHOOL RATORY SCHOOL ROAD RATORY SCHOOL ROAD RATORY SCHOOL ROAD RATORY SCHOOL ROAD RATORY SCHOOL ROAD RATORY SCHOOL ROAD ROAD RATORY SCHOOL ROAD ROAD ROAD ROAD ROAD ROAD ROAD ROAD
JMV ENG 37 V NEW 212- Stam Proje ION ADI PAU Proje ION 255 NeV Draw	ENGINEER CONSULTING INEERING, P.C. W. 39 STREET YORK, NY 10 -852-9855 P oct Title IA PREPA DITION ANUL VERNI CA PREPA DITION ANUL VERNI CA PREPA SING TITLE SI ELECTI Ing Title	ROOFING CONSULTANT WATSKY ASSOCIATES 20 MADISON AVENUE 20 MADISON AVENUE VALHALLA, NY 10595 914-948-3450 RATORY SCHOOL VD ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL Road le, NY 10804 ECOND FLOOR RICAL MECHANICAL POWER PLAN No. Date Drawing No.
JMV ENG 37 V NEW 212- Stam Proje ION ADI PAU Proje ION 255 NeV Draw	P ENGINEER CONSULTING INEERING, P.C. W. 39 STREET YORK, NY 10 -852-9855 P A CONSULTING 10 -852-9855 P A CONSULTION A DITION AN UL VERNI A PREPA DITION AN UL VERNI A CONSULTION CONSULTION A CONSULTION CONSULT	ROOFING CONSULTANT WATSKY ASSOCIATES 20 MADISON AVENUE VALHALLA, NY 10595 914-948-3450 RATORY SCHOOL VD ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL ROAD de, NY 10804 ECOND FLOOR RICAL MECHANICAL POWER PLAN No. Date Drawing No.
JMV ENG 37 V NEW 212- Stam Proje ION ADI PAU Proje ION 255 NeV Draw Scale 1/8"	P ENGINEER CONSULTING INEERING, P.C. W. 39 STREET YORK, NY 10 -852-9855 P A Content A PREPA DITION AN UL VERNI Content A PREPA DITION AN UL VERNI Content C	RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL Road le, NY 10804 ECOND FLOOR RICAL MECHANICAL POWER PLAN No. Date Drawing No. -2723 04/03/2019 E-307
JMV ENG 37 V NEW 212- Stam Proje ION ADI PAU Proje ION 255 NeV Draw Scale 1/8" Draw	P ENGINEER CONSULTING INEERING, P.C. W. 39 STREET YORK, NY 10 -852-9855 P A Contribution A PREPA DITION AN UL VERNI Control Address A PREPA DITION AN UL VERNI Control Address A PREPA S ELECTI S ELECTI Job Control Associated S Control Associated Control Assoc	RATORY SCHOOL NO. Date COND FLOOR RATORY SCHOOL RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL Road le, NY 10804 ECOND FLOOR RICAL MECHANICAL POWER PLAN NO. Date 2723 04/03/2019 Drawing No. 2723 04/03/2019 E-307
JMV ENG 37 V NEW 212- Stam Proje ION ADI Proje ION 255 NeV Draw Draw Draw Proje	P ENGINEER CONSULTING INEERING, P.C. W. 39 STREET YORK, NY 10 -852-9855 P A CONSULTING 100 -852-9855 P A CONSULTION A DITION AN UL VERNI A PREPA DITION AN UL VERNI A CONSULTION AN UL VERNI A CONSULTION AN UL VERNI A CONSULTION AN CONSULTION AN CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULT	RATORY SCHOOL NO. Date POWER PLAN POWER PLAN
JMV ENG 37 V NEW 212- Stam Proje ION ADI PAU Proje ION 255 NeV Draw Scale 1/8" Draw	P ENGINEER CONSULTING INEERING, P.C. W. 39 STREET YORK, NY 10 -852-9855 P A CONSULTING 100 -852-9855 P A CONSULTION A DITION AN UL VERNI A PREPA DITION AN UL VERNI A CONSULTION AN UL VERNI A CONSULTION AN UL VERNI A CONSULTION AN CONSULTION AN CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULTION CONSULT	RATORY SCHOOL NO. Date COND FLOOR RATORY SCHOOL RATORY SCHOOL ND ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL Road le, NY 10804 ECOND FLOOR RICAL MECHANICAL POWER PLAN NO. Date 2723 04/03/2019 Drawing NO. 2723 04/03/2019 E-307



		<u>ISTRIBUTION I</u>	BOAL	RD SCHEDULE	: <u>PA(</u>	<u>) (Ne</u>	ΞW)	
DISTRIBUTION BOARD DESIGNATION	CKT NO.		POLES	FEEDER SIZE		FRAME	CB IRIP	REMARKS	
DP-A 400A BUS		ACCU-5 ACCU-6	3 3	3*6 + *10G., RGSC 3*4 + *8G., RGSC	1" 1 1/4"	100 100		PVC FOR UNDERGROUND LOCATION	
400A MCB 120/208V., 3PH	3	DIMMER CONTROL PANEL ELEVATOR DISCONNECT	3	4*2 + *6G., 4*6 + *1ØG	1 1/4" 3/4"	100 60	100 40	-	
4W + G	5	ACCU-3	3	3*8 + *10G., RGSC	3/4"	60	35	PVC FOR UNDERGROUND LOCATION	4
200 KAIC	6 T	ACCU-4 ELEVATOR CAB LIGTING	3 2	3#8 + #10G., RGSC 2#12 + #12G.,	3/4" 3/4"	60 30	35 30	PVC FOR UNDERGROUND LOCATION -	
		RELAY PANEL ACCU-5	3	4*2 + *6G. 3*6 + *10G., RGSC	11/4"	100	100 50	PVC FOR UNDERGROUND LOCATION	
		SPARE	3			-	-		
		DISTRIBUTION	BOAF	RD SCHEDULE	PAC	C (NE	EW		
DISTRIBUTION BOARD DESIGNATION	CKT NO.	SERVING	POLES	FEEDER SIZE	COND	FRAME	CB TRIP	REMARKS	
DP-B 400A BUS	1	PP-1 PP-14	3	4#3 + #8G; 4#3 + #8G;	1 1/4"	100 100	100 100	-	
400A MCB	3	PP-2	3	4¶ + *6G	1 1/4"	200	125	-	
12Ø/2Ø8∨., 3PH 4W + G	4 5	TL-1 TP-1	3	4*3 + *8G., 4*4/0 + 4G	1 1/4" 2.5"	100 200	60 200	-	
200 KAIC	6	PP-HVAC ACCU-1	3	4#/0 + *6G 3*6 + *10G., RGSC	1 1/2"	2 <i>00</i> 100	150 70	- PVC FOR UNDERGROUND LOCATION	
	8	ACCU-2	3	3*6 + *10G., RGSC	1"	100		PVC FOR UNDERGROUND LOCATION	4
	9 10	SPARE SPARE	3 3	-	-	-	-	-	
NEL SCHEDUL		6:						PP-VERNI (EXISTING)	
	ROVIDE HAC	CR TYPE CIRCUIT BREAKE	er for	Bus AIC	120/208 200A 10K	L Feed T	Breaker ugs Only hru Lugs	Phase 3 Ground Bus X Wire Service 4 IG Bus 200% Neutral IC IC IC	
		PROVIDED IN EXISTING F ACTURER & TYPE, (VERNI	PANELS	Circuit Description	Receptacies	Other Motors	Equipnen.	A B C Rear rains to contact	5 205 Noter Notes Applances Europeen De
BUILDING)		HALL BE BALANCED AT S		DIGITAL MEDIA OUTLET	1440 720 1080	D		20A 1 ^ 2 20A 720 20A 3 ^ 4 20A 1080 20A 5 ^ 6 20A 1080	PROD. RM
POINT TO WITHIN 10	% AND +/-5%	OF EACH PHASE.		DIGITAL MEDIA OUTLET TV STUDIO OUTLET TV STUDIO OUTLET	1080 1080))		20A 7 ~ 8 20A 900 20A 9 ~ ~ 10 20A 900	PROD. RM RM. 154 F RM. 154 F
IN THE "OFF" POSITI		rs in panels shall be 1 Red as spare.	PLACED	PERF. 150 RECEPT.PERF. 150 RECEPT.	1080 1260 1080))		20A 11 ~ ~ 12 20A 900 20A 13 ~ ~ 14 20A 900 20A 15 ~ 16 20A 720	RM. 167 F RM. 167 F RM. 167 F CORRIDOR
ALL PANELS IDENT OTHERWISE NOTED.	IFIED ON DR	awings are new unless		RAF-1,2,3 EXISTING			50	20A 17 ~ 18 20A 1440 20A 19 ~ ~ 20 20A 20A 21 ~ ~ 20A 20A 20A 21 ~ ~ 22 20A	OFFICE R EXIST EXIST
REMAIN IN EACH PA	ANELS. COOF	NEW CIRCUITS WITH EXIST RDINATE CIRCUIT DESIGNA		EXISTING EXISTING EXISTING				20A 23 ⁻ ⁻ ² ² ⁻ ² ² ⁻ ² ⁻ ² ² ⁻ ² ² ⁻ ² ² ⁻ ² ² ² ⁻ ²	EXIST EXIST EXIST
	ROVIDE NEU	J TYPE WRITTEN PANEL		EXISTING				20A 29 ~ ~ 30 20A 2P 31 ~ ~ 32 20A 30A 33 ~ ~ 34 20A	EXIST EXIST EXIST
DIRECTORIES IN EA WHEN WORK IS COM		AFFECTED BY NEW CIRCUI	TING	EXISTING SPARE SPARE				20A 35 \frown 36 20A 20A 37 \frown 38 20A 20A 39 \frown 40 2P	EXIST SPA
				SPARE Total	0 9900 Load Sum			20A 41 ∩ 42 20A Loads in Loads in 0 8640 0 0 Volt-Amperes 0 8640 0 d Load Notes: 0 8640 0	0 0 0 0 Tot
				Lighting Receptacle (First 10KW) Receptacle (Remainder)	10.0	0 KVA 1.0 0 KVA 1.0 5 KVA 0.0	00 0.0 00 10.0	KVA	Load Summary 18.7 KVA Design Load: 57.6 KVA Demand Load: 13.1 KVA
				Largest Motor Other Motors Appliances	0.2	0 KVA 1.0 2 KVA 1.0 0 KVA 0.6	0 0.2	KVA Tie bar symbols: KVA (Per NEC Section 210.4(B)).	Spare Capacity 44.5 KVA Load Summary per Phase Phase A: 6.5 KVA
				Equipment Sub-feed Feed thru	0.0	KVA 1.0 KVA 1.0 KVA 1.0 KVA 1.0	0.0	KVA Provide tie bar between single pole breakers; KVA (2) single pole breakers with tie bar. 	Phase B: 5.6 KVA Phase C: 6.7 KVA
				Total Load (KVA) Total Load (Amps) Design Load (Amps)		7 KVA 9 AMP	13.1 36.5 160.0	AMP	All Circuit Breakers Are 20A, 1P Unless Noted Otherwise. D.F: National Electric Code Demand
				Spare (Amps) IPROVIDE	E NEW IF	P-2ØA C	123.5 RCUI	AMP IT BREAKER	<u> </u>
					~~~	~~~	~~	DP-VERNI (EXISTING)	~~~~~~
					120/208 300A		Breaker ugs Only		
				Circuit Circuit	Receptacies	. / /	hru Lugs		and work of the point of the providence of the point of t
				Description SPARE		st tojs		$\begin{array}{c cccc} \mathbf{A} & \mathbf{B} & \mathbf{C} \\ \mathbf{B} & \mathbf{B} \mathbf{B} & \mathbf{C} & \mathbf{C} \\ \mathbf{B} & \mathbf{C} \\ \mathbf{C} & \mathbf{C} & \mathbf{C} \\ \mathbf{C} & \mathbf{C} \\ \mathbf{C} & \mathbf{C} \\ \mathbf{C} & \mathbf{C} \\ \mathbf{C} & \mathbf{C}$	Offer PS 60 De
				ACCU-7		216		3P 3 0 0 4 3P	2160 ACCU
						216		30A	2160 2520
				SMALL KILM				$\begin{array}{c c} 3P \\ 30A \end{array} 5 \begin{array}{c} \frown \frown \frown \\ \frown \frown \\ \frown \\ \frown \\ \frown \\ \frown \\ \bullet \\ \bullet \\ \bullet$	2520 ACCU 2520
				LARGE KILM				3P         7         1         1         3P         3P         100A	SUB PA
				Total	0 ( Load Sum	) 0 648 mary D.F.		Loads in 0 Volt-Amperes 0 0 0 d Load Notes:	0 14040 0 0 <b>Tota</b> Panel Load Summary
				Lighting Receptacle (First 10KW)	0.0	) KVA 1.( ) KVA 1.(	0.0 0.0	KVA KVA	Load Summary 20.5 KVA Design Load: 108.0 KVA
				Receptacle (Remainder) Largest Motor Other Motors	0.0	0 KVA 0.3 0 KVA 1.0 5 KVA 1.0	0.0	KVA	Demand Load: 20.5 KVA Spare Capacity 87.5 KVA Load Summary per Phase
				Other Motors Appliances Equipment	0.0	5 KVA 1.0 5 KVA 0.6 5 KVA 1.0	65 0.0	KVA (Per NEC Section 210.4(B)).	Load Summary per Phase           Phase A:         6.8 KVA           Phase B:         6.8 KVA
				Sub-feed Feed thru		KVA 1.0 KVA 1.0	0.0 0.0	KVA     (2) single pole breakers with the bar.       KVA	Phase C: 6.8 KVA
				Total Load (KVA) Total Load (Amps) Design Load (Amps)		5 KVA D AMP	20.5 57.0 300.0	AMP (3) single pole breakers with the bar.	All Circuit Breakers Are 20A, 1P Unless Noted Otherwise.
									D.F: National Electric Code Demand f





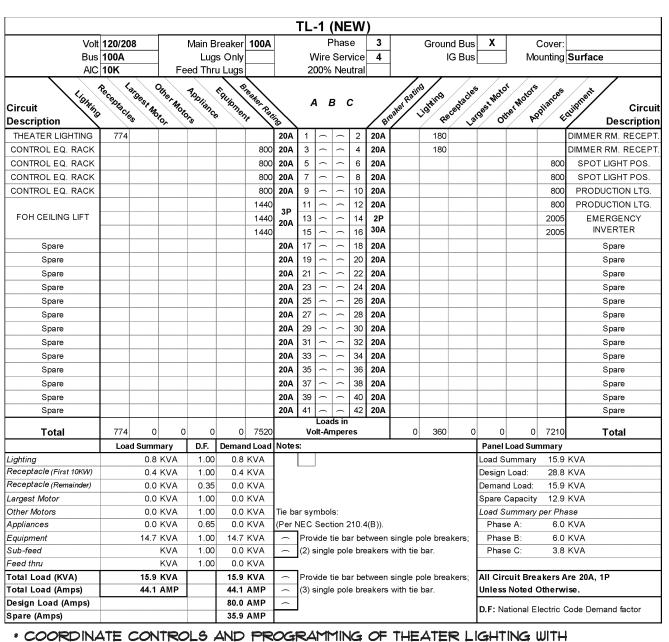


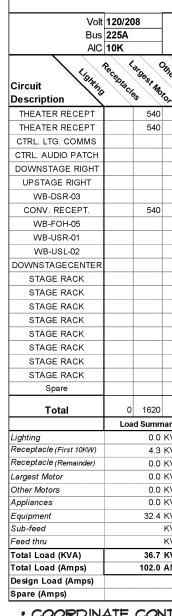
								PP	_1		=\\	<u></u>							
\/olt	120/20	0		Main B	rookor	100A				has		3		Groun	d Puo	x		Cover:	
	120/20 100A	0			s Only	TUUA	-	v	، Vire						u bus G Bus				Surface
AIC			Fe	ed Thru			-	-	00%			-			G Dus		IVIC	unung	Junace
	Receptacie		Other Moto		Failionen.	and the Rate		4	4 <i>E</i>	3 (	c	_*	eaker Ratin	9 ionting Re	Ceptacles	rgest Moto	her Motors	apliances the f	
ROOM 125 RECEPT.		720					20A	1			2	20A		720					HALL RECEPTACLES
ROOM 121 RECEPT.		1080					20A	3			4	20A					600		HALL WATER FOUNT
ROOM 121 RECEPT.		900					20A	5	$\widehat{}$	$\sim$	6	20A						1403	SUMP PUMP
HALL RECEPTACLES		1260					20A	7			8	20A		360					ELEVATOR RECEPT.
HALL RECEPTACLES		720					20A	9			10	20A		540					OFFICE 111 RECEPT
RM. 112 RECEPT.		900					20A	11		$\sim$	12	20A							SPARE
OFICE 113 RECEPT.		720					20A	13			14	20A							SPARE
ROOM 120 RECEPT.		720					20A	15			16	20A							SPARE
ROOM 120 RECEPT.		900					20A	17			18	20A		360					ROOM 115 RECEPT.
MECH ROOM 127		360					20A	19			20	20A		720					ROOM 122 RECEPT.
MECH ROOM 122		1080					20A	21			22	20A		720					ROOM 122 RECEPT.
BATHROOM RECEPT.		900					20A	23			24	20A							Spare
CLOCK CONTROLLER						240	20A	25			26	2P				1500			50115
						170		27			28	20A				1500			ECH-5
ACCESS LIFT GATE						170	3P	29			30	20A					1200		MICROWAVE
						170	20A	31			32	20A					500		REFRIGERATOR
ROOF RECEPT.		360					20A	33			34	20A		1080					OUTDOOR RECEPT
Spare							20A	35			36	20A		180					CLOCK RECEPTACLE
Spare							20A	37			38	20A							Spare
Spare							20A	39			40	20A							Spare
Spare							20A	41			42	20A							Spare
Total	0	10620	0	0	0	750		Va	Loa	ds in nper		•	0	4680	0	3000	2300	1403	
	Loa	d Summ	nary	D.F.	Deman	d Load	Note	s:								Panel	Load Sur	nmary	•
Lighting		0.0	KVA	1.00	0.0	KVA										Load S	ummary	22.8	KVA
Receptacle (First 10KW)		10.0	KVA	1.00	10.0	KVA	1		-							Design	Load:	30.0	KVA
Receptacle (Remainder)		5.3	KVA	0.35	1.9	KVA	1									Deman	d Load:	18.5	KVA
Largest Motor		0.0	KVA	1.00	0.0	KVA	1									Spare (	Capacity	11.5	KVA
Other Motors		3.0	KVA	1.00	3.0	KVA	Tie ba	arsy	mbol	s:						Load S	ummary	per Ph	ase
Appliances		2.3	KVA	0.65	1.5	KVA	(Per I	NEC	Sect	tion 2	210.4	4(B)).				Phas	e A:	7.3	KVA
Equipment		2.2	KVA	1.00	2.2	KVA		Prov	vide 1	tie ba	ar be	tween	single p	ole brea	kers;	Phas	e B:	8.6	KVA
Sub-feed			KVA	1.00		KVA		(2) \$	single	e pol	e bre	eakers	with tie	bar.		Phas	e C:	6.9	KVA
Feed thru			KVA	1.00		KVA													
Total Load (KVA)			KVA		18.5								single p		kers;				Are 20A, 1P
Total Load (Amps)		63.2	AMP		51.4			(3) \$	single	e pol	e bre	eakers	with tie	bar.		Unless	Noted (	Otherw	vise.
Design Load (Amps)					83.3											D.F: Na	tional E	lectric (	Code Demand factor
Spare (Amps)					31.9	AMP													

					P	P-'	1A	(N	IEV	V) _							
Volt	120/208	8	Main B	reaker 100A			F	Phas	se	3		Ground	Bus	X		over:	
	100A			s Only	]	۷	Nire	Ser	vice	4		IG I	3us 🗌		Mour	nting	Surface
	10K		Feed Thr	u Lugs		20	00%	Ne	utral								, ,
Circuit Description	Receptacie	Motor Dest	Appliance Appliance	fightionent Rate	iiie	Å	4 /	в (	c	Bre	aker Rating	nting Recept	acles Large	Notor Nother	Motors Appli	ances	vit ^{nent} Circu Descriptio
EM/NL/EXIT LIGHTING	385				20A	1			2	20A	1000	Í	Í			ſ	GENERAL LIGHTING
HALLWAY LIGHTING	880				20A	3			4	20A	600						GENERAL LIGHTING
PASSAGWAY LTG.	200				20A	5			6	20A	960						GENERALLIGHTING
OUTDOOR LTG.	320				20A	7			8	20A					$\sim$	250	AIR PURIFIER
OUTDOOR LTG.	520				20A	9			10	20A					7	100	AIR PURIFIER
SITE LIGHTING	500				20A	11			12	20A					-	300	AIR PURIFIER
SITE LIGHTING	405				20A	13	~	~	14	20A					C.		opare
Spare					20A	15	~		16	20A							Spare
Spare			_		20A	17	~		18	20A							Spare
Spare					20A	19			20	20A							Spare
Spare					20A	21	-	~	22	20A							Spare
Spare					20A	23	-	~	24	20A							Spare
Spare					20A	25	~	~	26	20A							Spare
Spare					20A	27			28	20A							Spare
Spare					20A	29		~	30	20A							Spare
Spare					20A	31	~		32	20A							Spare
Spare					20A	33			34	20A							Spare
Spare			_		20A	35	_		36	20A							
			_		20A	37			38	20A							Spare
Spare			_			39		~	40	20A							Spare
Spare Spare			-		20A 20A	39 41			40	20A							Spare
Spare			-		20A	41	Loa	ds in		20A							Spare
Total	3210	0	0 0	0 0		Vo		mper			2560	0	0	о	о	650	Total
	Loa	d Summary	D.F.	Demand Load	Note	s:								Panel Lo	ad Sumn	nary	
Lighting		5.8 KVA	. 1.00	5.8 KVA									L	oad Sum	mary	6.4	KVA
Receptacle (First 10KW)		0.0 KVA	1.00	0.0 KVA	-								D	esign Lo	ad:	30.0	KVA
Receptacle (Remainder)		0.0 KVA	0.35	0.0 KVA									D	emand L	_oad:	6.4	KVA
Largest Motor		0.0 KVA	. 1.00	0.0 KVA									S	pare Ca	pacity	23.6	KVA
Other Motors		0.0 KVA	. 1.00	0.0 KVA	Tie ba	ar sy	mbo	ls:					L	oad Sum	nmary pe	er Pha	ase
Appliances		0.0 KVA		0.0 KVA	(Per	1				,				Phase A	<b>\</b> :		KVA
Equipment		0.7 KVA		0.7 KVA								e breaker	s; 📙	Phase E			KVA
Sub-feed		KVA		0.0 KVA		(2) 9	singl	e po	le bre	eakers	with tie ba	ar.		Phase (	):	2.0	KVA
Feed thru		KVA		0.0 KVA	L	1											
Total Load (KVA)		6.4 KVA		6.4 KVA							• •	e breaker	· .				e 20A, 1P
Total Load (Amps)		17.8 AMF		17.8 AMP		(3) క	singl	e po	le bre	eakers	with tie ba	ar.	Ч	nless N	oted Ot	herwi	se.
Design Load (Amps)				83.3 AMP										- NI-6-		C	ode Demand factor

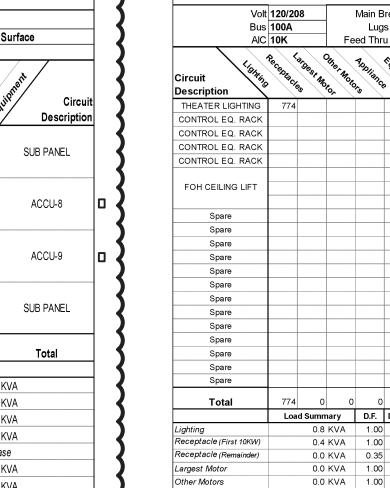
								PP	-2	(NI	EW	)							
Volt	120/20	8		Main E	reaker	125A			F	Phas	е	3		Ground	d Bus	X		Cover:	
Bus	225A			Lug	s Only		]	١	Nire	Ser	vice	4	]	IG	Bus		Мс	ounting	Surface
	10K		Fe	ed Thr	u Lugs			2	00%	Ne	utral		L,						
Circuit Description	Receptacle	Motor 1319 e	Sther Moto	Aopijano As	Equipment,	cleaket Rate	ine	,	4 <i>E</i>	в (	c	8	eaker Ratil	ng Lighting Rece	ptacles	rgest notor	er Motors	apliances	ui ^{pnent} Circu Descriptio
HALL WATER FOUNT.					400		20A	1	(	(	2	20A		540					ART ROOM RECEPT
HALLWAY RECEPT.		900					20A	3			4	20A		540					ART ROOM RECEPT
HALLWAY RECEPT.		900					20A	5			6	20A		360					ART ROOM RECEPT
ROOM 211 RECEPT.		720					20A	7			8	20A		720					ROOM 210 RECEPT
ROOM 211 RECEPT.		900					20A	9			10	20A		900					ROOM 210 RECEPT
EM/NL & EXIT LTG.	155						20A	11			12	2P				312			40.04.00
HALLWAY LIGHTING	760						20A	13			14	15A				312			AC-2.1,2.2
CLASS ROOM LTG.	960						20A	15			16	2P				842			40 0 0 0 4 0 5 0 0
Spare							20A	17			18	15A				842			AC-2.3,2.4,2.5, 2.8
Spare							20A	19			20					3666			
SAF-1				864			20A	21			22	3P 40A				3666			EDH-1
TEF-1, TEF-2				1056			20A	23			24	40A				3666			
OAF-1				528			20A	25			26	20A				1392			GEF-1, SAF-2
				200			20A	27			28	20A				30			FSD
AIR PURIFIER						300		29			30					1296			
Spare		~	$\sim$	~	$\sim$	$\sim$	20A	31			32	3P 15A				1296			ERV-1
Spare							20A	33			34	15A				1296			
Spare							20A	35			36					1296			
Spare							20A	37			38	3P				1296			ERV-2
Spare							20A	39			40	15A				1296			
Spare							20A	41			42	20A							Spare
										ds in									•
Total	1875	3420	0	2648	400	300			olt-Ar	mper	es		C	3060	0		0	0	Total
1:-4-4:	Loa	d Summa	-	D.F.	Deman		Notes	3:									Load Sur		10 (A
Lighting Receptacle (First 10KW)		1.9		1.00		KVA											ummary	34.2	
Receptacle (Remainder)		6.5 0.0		1.00 0.35		KVA KVA										Design		36.0 34.1	
																Deman			
Largest Motor Other Motors		0.0		1.00		KVA	Tak		nah al	la :							Capacity		KVA
Appliances		25.2 0.4		1.00 0.65	25.2	KVA KVA	Tie ba (Per I				210	1(D))				Phase	ummary	<u>рег Рла</u> 11.6	
Equipment	-	0.4		1.00		KVA KVA	<u> </u>					· //	cinale -	oole break	oro:	Phase		12.4	
Equipmeni Sub-feed			KVA KVA	1.00		KVA KVA							with tie		cı 5,	Phase		12.4	
Feed thru			KVA	1.00		KVA		(2)	angr	c pu		Juncis	with de	Juli .		- Inde		10.2	
Total Load (KVA)		34.2		1.00	34.1			Pro	ahiv	tie h	ar ha	tween	sinde	oole break	ers.		uit Bree	kore A	re 20A, 1P
Total Load (Amps)	1	95.0			94.6								with tie		013,		Noted (		,
Design Load (Amps)		00.0			100.0			(3)	Singr	- p0	5 010	Janoio							
Spare (Amps)						AMP		I								D.F: Na	tional El	ectric C	ode Demand factor
pare (runpo)	1				v.#		I												

						PP	-H	VA	C	(NE	EW)							
Volt	120/208	3		Main E	reaker 150A			F	Phas	e	3		Grou	and Bus	s X		Cover	
Bus	225A				s Only		١	Nire	Ser	vice	4			IG Bus	5	Mo	ounting	Surface
AIC		, I	Fe	ed Thr	u Lugs		2	00%	Ne	utral				,	,	,	,	
Circuit Description	Peceptacie	Motor Ge	ther Mote	Aopijano 15	figuinnen et ester Aut		,	4 E	3 (	5	В	eater Patil	ng Lighting R	eceptacles	argest notor	ar Motors	Ppliance	cquip ^{ment} Circ
				1320		3P	1	$\widehat{}$	$\widehat{}$	2	3P				1320			
AHU-1				1320		3P 15A	3		$\widehat{}$	4	15A				1320			AHU-2
				1320			5	$\widehat{}$	$\widehat{}$	6					1320			
				480		3P	7	$\sim$	$\widehat{}$	8	3P				480			
AHU-3				480		3P 15A	9		$\widehat{}$	10	3P 15A				480			AHU-4
				480			11	$\sim$	$\widehat{}$	12					480			
AC-1.1,1.4,1.9, 1.15				605		2P	13	$\sim$		14	2P				578			AC-1.5, 1.6, 1.7, 1.1
, to- 1. 1, 1. <del>4</del> , 1.8, 1.10				605		15A	15	$\sim$		16	15A				578			<u> </u>
AC-1.2, 1.8, 1.14				520		2P	17		$\widehat{}$	18	2P				385			AC-1.10,1.11,1.12
AC-1.2, 1.0, 1.14				520		15A	19		$\widehat{}$	20	15A				385			AC-1.10, 1.11, 1.1.
ACCUIT				2184		2P	21			22	2P				104			AC-IT
ACCUIT				2184		25A	23	$\sim$		24	15A				104			AC-II
BP-1,BP-2				1123		2P	25			26	2P				915			CP-1
DF-1,DF-2				1123		20A	27			28	20A				915			CF-1
CP-2				915		2P	29			30	2P				1500			ECH-3
06-2				915		20A	31			32	20A				1500			ECH-3
ECH-1				1500		2P	33			34	2P				1500			ECH-4
				1500		20A	35			36	20A				1500			
HWH-1, HWRP-1				600		20A	37			38	20A				300			MOTORIZED DAMP
B-1,B-2				200		20A	39	$\sim$		40	2P				1500			ECH-2
Spare						20A	41			42	20A				1500			ECH-2
Total	0	0	0	19894	0 0		v	Loa olt-Ar	ds in mer			o			18664	0		
	-	d Summa	-	D.F.	Demand Load	Notes			nper				<u> </u>			Load Su		
Lighting		0.0	κVA	1.00	0.0 KVA										Load Su	ummary	38.6	3 KVA
Receptacle (First 10KW)		0.0 H	ΚVA	1.00	0.0 KVA										Design	Load:	43.2	2 KVA
Receptacle (Remainder)		0.0 H	ΚVA	0.35	0.0 KVA										Demand	d Load:	38.6	6 KVA
Largest Motor		0.0 H	κνΑ	1.00	0.0 KVA										Spare C	apacity	4.6	6 KVA
Other Motors		38.6 I	<b>≺</b> VA	1.00	38.6 KVA	Tie ba	ar sy	mbol	s:						Load SL	ummary	per Pl	hase
Appliances		0.0 H	ΚVA	0.65	0.0 KVA	(Per N	NEC	Sect	tion 2	210.4	4(B)).				Phase	e A:	11.(	) KVA
Equipment		0.0 H	κνΑ	1.00	0.0 KVA		Pro	vide	tie b	ar be	etween	single p	oole bre	akers;	Phase	e B:	13.8	8 KVA
Sub-feed		ł	<b>≺</b> VA	1.00	0.0 KVA		(2)	singl	e pol	e br	eakers	with tie	bar.		Phase	e C:	13.7	7 KVA
Feed thru		ŀ	<b>≺</b> VA	1.00	0.0 KVA													
Total Load (KVA)		38.6 I			38.6 KVA								oole bre	akers;				Are 20A, 1P
Total Load (Amps)		107.1	AMP		107.1 AMP		(3)	singl	e pol	e bre	eakers	with tie	bar.		Unless	Noted	Otherv	vise.
Design Load (Amps)					120.0 AMP										D.F. Na	tional F	lectric	Code Demand factor
Spare (Amps)					12.9 AMP										1	L		





* COORDINATE CONTROLS AND PROGRAMMING OF THEATER LIGHTING WITH LIGHTING AND AV CONSULTANTS



LIGHTING AND AY CONSULTANTS

					TΡ	-1	(NE	EW	)							
	Main B	reaker	200A			F	has	е	3		Grour	nd Bus	X		Cover:	
	Lug	s Only			۷	Vire	Ser	vice	4	]	I	G Bus		Mo	ounting	Surface
	ed Thr				2	00%	Neu	utral								
Other Moto	Appliance	Equipmen.	a a ket Rall	ite	4	а <i>I</i>	3 (	c	B	eaker Ratin	a ighing pe	ceptacles	igest Moto	Ther Motors	apliances E	quipment Circuit Description
				20A	1		(	2	20A		360					THEATER RECEPT.
				20A	3	$\sim$		4	20A		720					CTRL. RM RECEPT.
			1200	20A	5		$\widehat{}$	6	20A		360					CTRL. RM RECEPT.
			1200	20A	7			8	20A						1200	DOWNSTAGE LEFT
			1200	20A	9	$\sim$	$\widehat{}$	10	20A						1200	UPSTAGE LEFT
			1200	20A	11	$\sim$		12	20A						1200	WB-DSL-04
			1200	20A	13	$\sim$		14	20A						1200	WB-FOH-06
				20A	15	$\sim$	$\widehat{}$	16	20A		540					CONV. RECEPT
			1200	20A	17			18	20A		360					CONV. RECEPT
			1200	20A	19			20	20A						1200	PROJECTOR
			1200	20A	21		$\widehat{}$	22	20A						1200	PROJECTOR SCREEN
			1200	20A	23		$\sim$	24	20A						1200	PIPE GRID-07
			1200	20A	25			26	20A						1200	PIPE GRID-07
			1200	20A	27	$\sim$	$\sim$	28	20A						1200	PIPE GRID-08
			1200	20A	29			30	20A						1200	PIPE GRID-08
			1200	20A	31			32	20A		360					CLASSRM. CAMERAS
			1200	20A	33			34	20A							Spare
			1200	20A	35			36	20A							Spare
			1200	20A	37			38	20A							Spare
			1200	20A	39			40	20A							Spare
				20A	41			42	20A							Spare
o	0	о	20400		Vo		ds in nper	es		o	2700	0	0	0	12000	Total
nary	D.F.	Deman	d Load	Notes	s:								Panel	Load Sur	nmary	
KVA	1.00	0.0	KVA										Load S	ummary	36.7	KVA
KVA	1.00	4.3	KVA			-							Design	Load:	57.6	KVA
KVA	0.35	0.0	KVA										Deman	d Load:	36.7	KVA
KVA	1.00	0.0	KVA										Spare (	Capacity	20.9	KVA
KVA	1.00		KVA	Tie ba										ummary	·	
KVA	0.65	0.0	KVA	(Per I	NEC	Sec	tion 2	210.4	4(B)).				Phas	e A:	13.3	KVA
KVA	1.00		KVA							single p		akers;	Phas			KVA
KVA	1.00		KVA		(2) క	singl	e pol	e bre	eakers	with tie	bar.		Phas	e C:	11.5	KVA
KVA	1.00		KVA		1_											
KVA			KVA							single p		akers;				re 20A, 1P
AMP		102.0		<u> </u>	(3) \$	singl	e pol	e pre	akers	with tie	uar.		Uniess	Noted	Junerw	ise.
		160.0											D.F: Na	ational E	lectric (	Code Demand factor
ITRO	LS	AND		ROG	R/	<b>4</b> M	MIM	<b>VG</b>	OF	: THE	EATE	RL	IGH1	ING	WITH	4

11.       6/23/2021       BID ADDENDUM 5         10.       6/18/2021       ISSUED FOR BUILDING PERMIT         9.       6/09/2021       RE-ISSUED FOR BUILDING PERMIT REVIEW         8.       6/09/2021       RE-ISSUED FOR BUILDING PERMIT REVIEW         8.       6/09/2021       BID ADDENDUM 1         7.       6/01/2021       ISSUED FOR BID         6.       5/07/2021       RE-ISSUED FOR BUILDING PERMIT REVIEW         5.       2/01/2021       ISSUED FOR BUILDING PERMIT REVIEW         6.       2/01/2021       ISSUED FOR PLANNING BOARD REVIEW         7.       6/23/2020       RESUBMITTED FOR ZONING REVIEW         8.       9/23/2020       RESUBMITTED FOR ZONING REVIEW         9.       9/23/2020       ISSUED FOR PLANNING BOARD REVIEW         1.       1/10/2020       ISSUED FOR PRELIMINARY DOB REVIEW         1.       1/10/2020       ISSUED FOR DD ESTIMATE         No.       Date       Revision/Submission         STRUCTURAL & SITE CIVIL ENGINEER       DOMINICK R PILLA         ASSOCIATES, P.C.       143 MAIN STREET         NYACK, NY 10960       845-727-7793         MEP ENGINEER       ROOFING CONSULTANT	10.6/18/2021ISSUED FOR BUILDING PERMIT9.6/09/2021RE-ISSUED FOR BUILDING PERMIT REVIEW8.6/09/2021BID ADDENDUM 17.6/01/2021ISSUED FOR BID6.5/07/2021RE-ISSUED FOR BUILDING PERMIT REVIEW5.2/01/2021ISSUED FOR BUILDING PERMIT REVIEW4.10/14/2020ISSUED FOR PLANNING BOARD REVIEW3.9/23/2020RESUBMITTED FOR ZONING REVIEW2.8/28/2020ISSUED FOR PRELIMINARY DOB REVIEW1.1/10/2020ISSUED FOR DD ESTIMATENo.DateRevision/SubmissionSTRUCTURAL & SITE CIVIL ENGINEERDOMINICK R PILLA ASSOCIATES, P.C.143 MAIN STREET NYACK, NY 10960 845-727-7793	10. 6/18/2021       ISSUED FOR BUILDING PERMIT         9. 6/09/2021       RE-ISSUED FOR BUILDING PERMIT REVIEW         8. 6/09/2021       BID ADDENDUM 1         7. 6/01/2021       ISSUED FOR BID         6. 5/07/2021       RE-ISSUED FOR BUILDING PERMIT REVIEW         5. 2/01/2021       ISSUED FOR BUILDING PERMIT REVIEW         4. 10/14/2020       ISSUED FOR BUILDING DARD REVIEW         3. 9/23/2020       RESUBMITTED FOR ZONING REVIEW         2. 8/28/2020       ISSUED FOR PRELIMINARY DOB REVIEW         1. 1/10/2020       ISSUED FOR DD ESTIMATE         No. Date       Revision/Submission         STRUCTURAL & SITE CIVIL ENGINEER         DOMINICK R PILLA         ASSOCIATES, P.C.         143 MAIN STREET         NYACK, NY 10960         645-727-7793         MEP ENGINEER         JAV CONSULTING         WATSKY ASSOCIATES         20 MADISON AVENUE         37 W. 39 STREET, STE 703         NEW YORK, NY 10018         914-948-3450         212-852-9855         Stamp         Project Title         IONA PREPARATORY SCHOOL         ADDITION AND ALTERATION TO THE         PAUL VERNI FINE ARTS CENTER         Project Address      <	N	LAKESHORE DRIVE	NEW P.A.C. (not to scale)
10.6/18/2021ISSUED FOR BUILDING PERMIT9.6/09/2021RE-ISSUED FOR BUILDING PERMIT REVIEW8.6/09/2021BID ADDENDUM 17.6/01/2021ISSUED FOR BID6.5/07/2021RE-ISSUED FOR BUILDING PERMIT REVIEW5.2/01/2021ISSUED FOR BUILDING PERMIT REVIEW4.10/14/2020ISSUED FOR PLANNING BOARD REVIEW3.9/23/2020RESUBMITTED FOR ZONING REVIEW2.8/28/2020ISSUED FOR PRELIMINARY DOB REVIEW1.1/10/2020ISSUED FOR DD ESTIMATENo.DateRevision/SubmissionSTRUCTURAL & SITE CIVIL ENGINEERDOMINICK R PILLA ASSOCIATES, P.C.143 MAIN STREET NYACK, NY 10960 845-727-7793ROOFING CONSULTANT	10.6/18/2021ISSUED FOR BUILDING PERMIT9.6/09/2021RE-ISSUED FOR BUILDING PERMIT REVIEW8.6/09/2021BID ADDENDUM 17.6/01/2021ISSUED FOR BID6.5/07/2021RE-ISSUED FOR BUILDING PERMIT REVIEW5.2/01/2021ISSUED FOR BUILDING PERMIT REVIEW4.10/14/2020ISSUED FOR PLANNING BOARD REVIEW3.9/23/2020RESUBMITTED FOR ZONING REVIEW2.8/28/2020ISSUED FOR PRELIMINARY DOB REVIEW1.1/10/2020ISSUED FOR DD ESTIMATENo.DateRevision/SubmissionSTRUCTURAL & SITE CIVIL ENGINEERDOMINICK R PILLA ASSOCIATES, P.C.143MAIN STREET NYACK, NY 10960845-727-7793MEP ENGINEER ENGINEERING, P.C.20 MADISON AVENUE 37 W. 39 STREET, STE 703 VALHALLA, NY 10595 NEW YORK, NY 10018 212-852-9855	10. 6/18/2021       ISSUED FOR BUILDING PERMIT         9. 6/09/2021       RE-ISSUED FOR BUILDING PERMIT REVIEW         8. 6/09/2021       BID ADDENDUM 1         7. 6/01/2021       ISSUED FOR BID         6. 5/07/2021       RE-ISSUED FOR BUILDING PERMIT REVIEW         5. 2/01/2021       ISSUED FOR BUILDING PERMIT REVIEW         4. 10/14/2020       ISSUED FOR BUILDING DARD REVIEW         3. 9/23/2020       RESUBMITTED FOR ZONING REVIEW         2. 8/28/2020       ISSUED FOR PRELIMINARY DOB REVIEW         1. 1/10/2020       ISSUED FOR DD ESTIMATE         No. Date       Revision/Submission         STRUCTURAL & SITE CIVIL ENGINEER         DOMINICK R PILLA         ASSOCIATES, P.C.         143       MAIN STREET         NYACK, NY 10960         845-727-7793         MEP ENGINEER       ROOFING CONSULTANT         JAV CONSULTING       WATSKY ASSOCIATES         ENGINEERING, P.C.       20 MADISON AVENUE         37 W. 39 STREET, STE 703       VALHALLA, NY 10595         NEW YORK, NY 10018       914-948-3450         212-852-9855       Stamp         Project Title       IONA PREPARATORY SCHOOL         ADDITION AND ALTERATION TO THE         PAUL VERNI FINE ARTS CENTER			
2.       8/28/2020       ISSUED FOR PRELIMINARY DOB REVIEW         1.       1/10/2020       ISSUED FOR DD ESTIMATE         No.       Date       Revision/Submission         STRUCTURAL & SITE CIVIL ENGINEER       DOMINICK R PILLA         ASSOCIATES, P.C.       143 MAIN STREET         NYACK, NY 10960       845-727-7793         MEP ENGINEER       ROOFING CONSULTANT	2.       8/28/2020       ISSUED FOR PRELIMINARY DOB REVIEW         1.       1/10/2020       ISSUED FOR DD ESTIMATE         No.       Date       Revision/Submission         STRUCTURAL & SITE CIVIL ENGINEER       DOMINICK R PILLA         ASSOCIATES, P.C.       143 MAIN STREET         NYACK, NY 10960       845-727-7793         MEP ENGINEER       ROOFING CONSULTANT         JMV CONSULTING       WATSKY ASSOCIATES         ENGINEERING, P.C.       20 MADISON AVENUE         37 W. 39 STREET, STE 703       VALHALLA, NY 10595         NEW YORK, NY 10018       914-948-3450	2.       6/28/2020       ISSUED FOR PRELIMINARY DOB REVIEW         1.       1/10/2020       ISSUED FOR DD ESTIMATE         No.       Date       Revision/Submission         STRUCTURAL & SITE CIVIL ENGINEER       DOMINICK R PILLA         ASSOCIATES, P.C.       143 MAIN STREET         NYACK, NY 10960       045-727-7793         MEP ENGINEER       ROOFING CONSULTANT         JMV CONSULTING       WATSKY ASSOCIATES         ENGINEERING, P.C.       20 MADISON AVENUE         37 W. 39 STREET, STE 703       VALHALLA, NY 10595         NEW YORK, NY 10018       914-948-3450         212-852-9855       914-948-3450         Stamp       Project Title         IONA PREPARATORY SCHOOL       ADDITION AND ALTERATION TO THE         PAUL VERNI FINE ARTS CENTER       Project Address         IONA PREPARATORY SCHOOL       Project Address	10.         9.         8.         7.         6.         5.         4.	6/18/2021 6/09/2021 6/09/2021 6/01/2021 5/07/2021 2/01/2021 10/14/2020	ISSUED FOR BUILDING PERMIT RE-ISSUED FOR BUILDING PERMIT REVIEW BID ADDENDUM 1 ISSUED FOR BID RE-ISSUED FOR BUILDING PERMIT REVIEW ISSUED FOR BUILDING PERMIT REVIEW ISSUED FOR PLANNING BOARD REVIEW
	ENGINEERING, P.C.         20 MADISON AVENUE           37 W. 39 STREET, STE 703         VALHALLA, NY 10595           NEW YORK, NY 10018         914-948-3450           212-852-9855         914-948-3450	ENGINEERING, P.C.       20 MADISON AVENUE         37 W. 39 STREET, STE 703       VALHALLA, NY 10595         NEW YORK, NY 10018       914-948-3450         212-852-9855       Stamp         Project Title       IONA PREPARATORY SCHOOL         ADDITION AND ALTERATION TO THE         PAUL VERNI FINE ARTS CENTER         Project Address         IONA PREPARATORY SCHOOL	1. No. STRU DOMI ASSO 143 1 NYAC 845-	1/10/2020 Date CTURAL & SI NICK R PILLA CIATES, P.C. MAIN STREET K, NY 10960 727-7793	ISSUED FOR DD ESTIMATE Revision/Submission ITE CIVIL ENGINEER
IONA PREPARATORY SCHOOL ADDITION AND ALTERATION TO THE PAUL VERNI FINE ARTS CENTER Project Address IONA PREPARATORY SCHOOL 255 Wilmot Road New Rochelle, NY 10804 Drawing Title ELECTRICAL PANEL SCHEDULE Scale Job No. Date Drawing No. NTS 20-2723 04/03/2019	New Rochelle, NY 10804 Drawing Title ELECTRICAL PANEL SCHEDULE Scale Job No. Date Drawing No. NTS 20-2723 04/03/2019	E - 601	IONA ADD PAU Projec IONA 255 New Drawin	ITION AN L VERNI t Address A PREPAI Wilmot Rochell g Title ELE	ALTERATION TO THE FINE ARTS CENTER RATORY SCHOOL Road le, NY 10804 CTRICAL PANEL SCHEDULE No. Date Drawing No. -2723 04/03/2019