

BID Addendum No. Five (5)

PROJECT: Iona Preparatory School
Addition and Alterations to the
Pail Verni Fine Arts Center
255 Wilmot Road
New Rochelle, NY 10804

ADDENDUM NO. Five (5)
Initiation Date: June 24, 2021

Architect's Project No.: 1618
PGA Contact: Danny Lam
dlam@petergisolfiassociates.com
914-478-3677 x 340

TO ALL BIDDERS:

You are directed to make the following changes in this Contract:

A. General

B. Architectural

1. See attached revised sheets A-150 and A-151 with clarification to the 1st floor and 2nd floor lobby ceiling. Refer to A-950 Finish Schedule issued in addendum 1 for ceiling information.
2. Specification section 08 14 16 Flush Wood Doors – Paragraph 2.3(A)(5) note there are no sketch veneer doors for this project. Refer to door elevations on A-900.
3. All pilasters shown in the classrooms are painted gypsum board.
4. Specification section 10 11 00 Visual Display Surfaces – All markerboards/whiteboards shall be Claridge CONCEPT Dry Erase Board with aluminum trim and marker tray. All tackboards shall have wood trim per detail 1/A-600.

C. Structural

1. See attached revised sheet S-103 with revisions to roof truss spacing at the theater roof.

D. Mechanical

1. See attached revised sheet M-101 with revisions to HVAC notes.
2. See attached revised sheet M-102 with revisions to HVAC symbols.
3. See attached revised sheet M-103 with revisions to mechanical site plan.
4. See attached revised sheet M-201 with revisions to Verni demolition.
5. See attached revised sheet M-301 with revisions to mechanical construction plan.
6. See attached revised sheet M-311 with revisions to mechanical piping plan.
7. See attached ADDED sheet M-321 First Floor Refrigerant Piping Plan.
8. See attached ADDED sheet M-322 Second Floor Refrigerant Piping Plan.
9. See attached revised sheet M-403 with revisions to details.
10. See attached revised sheet M-501 with revisions to mechanical hot water riser diagram.
11. See attached revised sheet M-502 with revisions to mechanical air riser diagram.
12. See attached revised sheet M-601 with revisions to mechanical schedule.
13. See attached revised sheet M-602 with revisions to mechanical schedule.
14. See attached ADDED sheet M-603 Mechanical Schedule III.

E. Plumbing

1. See attached revised sheet P-102 – with updated drawing scale. Note there are discrepancies with pipe sizes (for gas and cold water) shown on C-100 Site Utility Plan. All contractors shall refer to pipe sizes shown on P-102 for plumbing site utilities.

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BID Addendum No. Five (5)

F. Sprinkler

1. See attached revised sheet SP-103 – with updated drawing scale.

G. Electrical

1. Clarification to scope for Addendum #3 – **Electrical Contractor to provide all raceways and back boxes for all low voltage cabling locations on all floors including the Theatre Areas. The low voltage cabling vendors shall coordinate, supply and install all low voltage cabling. Cable terminations and testing shall be provided by the low voltage vendors.**
2. See attached revised sheet E-105 with revisions to notes regarding Parent's Hall.
3. See attached revised sheet E-201 with revisions to Verni demolition.
4. See attached revised sheet E-301 with revisions to first floor lighting plan.
5. See attached revised sheet E-303 with revisions to first floor power plan.
6. See attached revised sheet E-306 with revisions to first floor mechanical power plan.
7. See attached revised sheet E-307 with revisions to second floor mechanical power plan.
8. See attached revised sheet E-501 with revisions to electrical riser diagram.
9. See attached revised sheet E-601 with revisions to electrical panel schedule.

H. Fire Alarm – No change.

Attachments:

- Revised sheet A-150: Revision to 1st floor RCP
- Revised sheet A-151: Revision to 2nd floor RCP
- Revised sheet S-103: Revisions to roof truss spacing
- Revised sheet M-101: Revisions to HVAC notes
- Revised sheet M-102: Revisions to HVAC symbols
- Revised sheet M-103: Revisions to mechanical site plan
- Revised sheet M-201: Revisions to Verni demolition
- Revised sheet M-301: Revisions to mechanical construction plan
- Revised sheet M-311: Revisions to mechanical piping plan
- NEW sheet M-321: First Floor Refrigerant Piping Plan
- NEW sheet M-322: Second Floor Refrigerant Piping Plan
- Revised sheet M-403: Revisions to details
- Revised sheet M-501: Revisions to mechanical hot water riser diagram
- Revised sheet M-502: Revisions to mechanical air riser diagram
- Revised sheet M-601: Revisions to mechanical schedule
- Revised sheet M-602: Revisions to mechanical schedule
- NEW sheet M-603: Mechanical Schedule III
- Revised sheet P-102: Drawing scale updated
- Revised sheet SP-103: Drawing scale updated
- Revised sheet E-105: Revisions to notes
- Revised sheet E-201: Revisions to Verni demolition
- Revised sheet E-301: Revisions to first floor lighting plan
- Revised sheet E-303: Revisions to first floor power plan
- Revised sheet E-306: Revisions to first floor mechanical power plan
- Revised sheet E-307: Revisions to second floor mechanical power plan
- Revised sheet E-501: Revisions to electrical riser diagram
- Revised sheet E-601: Revisions to electrical panel schedule

End of Addendum No. 5

PETER GISOLFI ASSOCIATES

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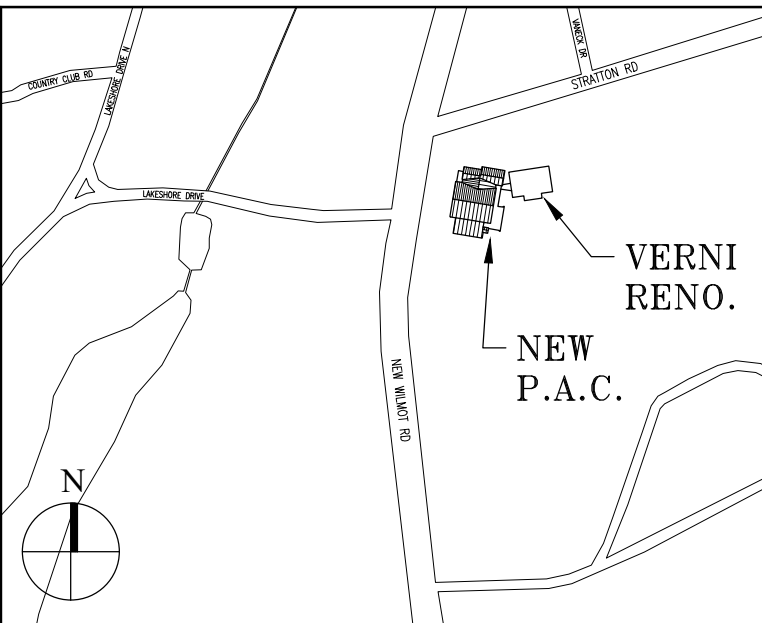
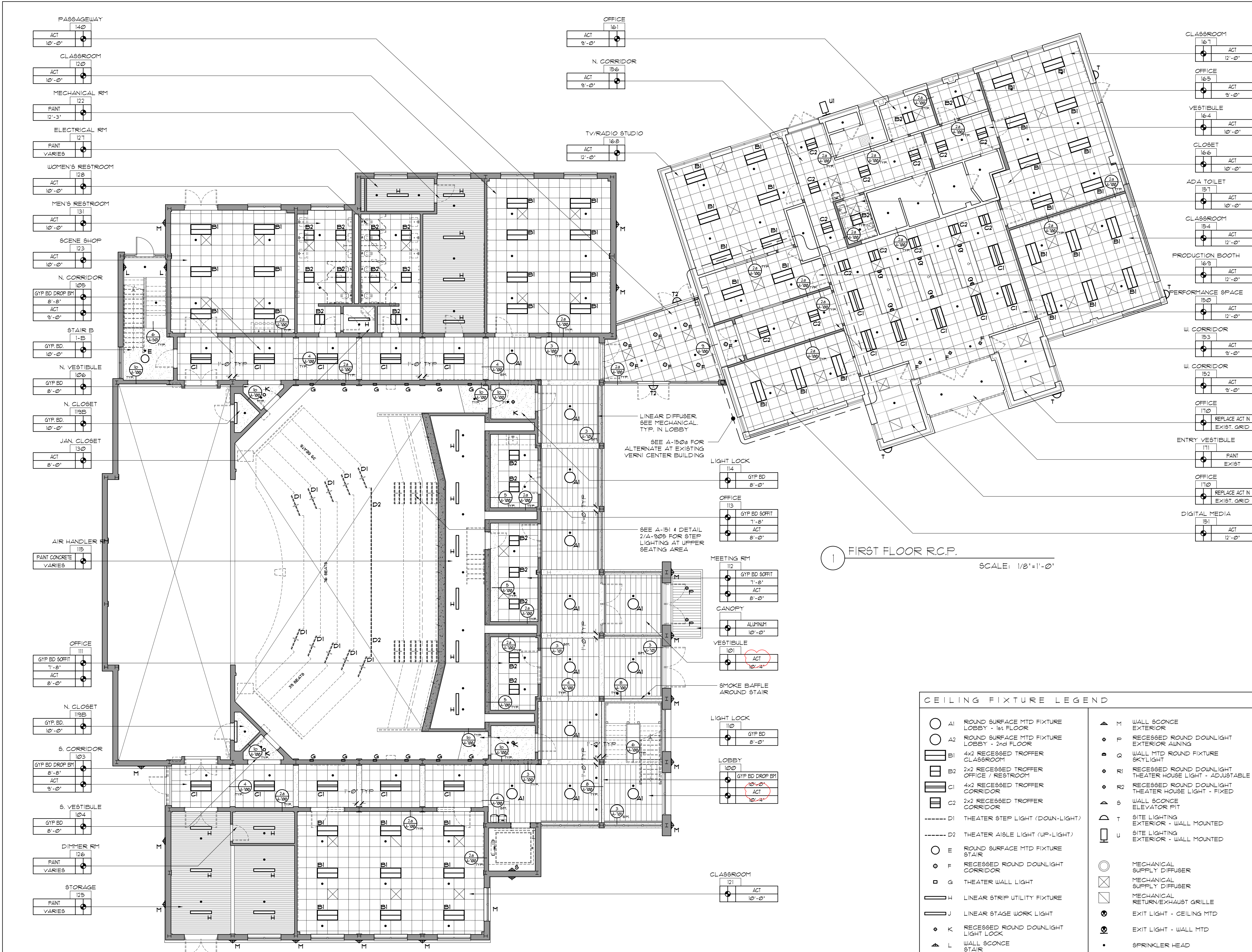
Architects

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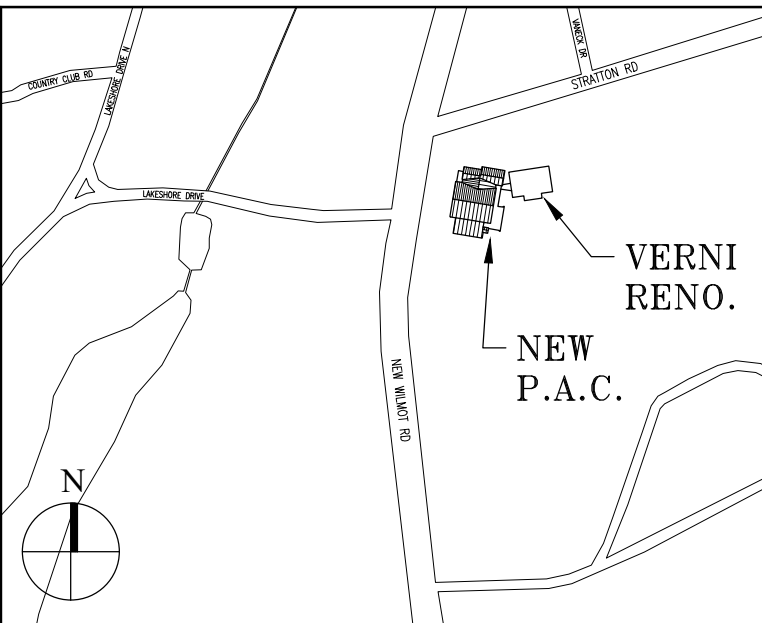
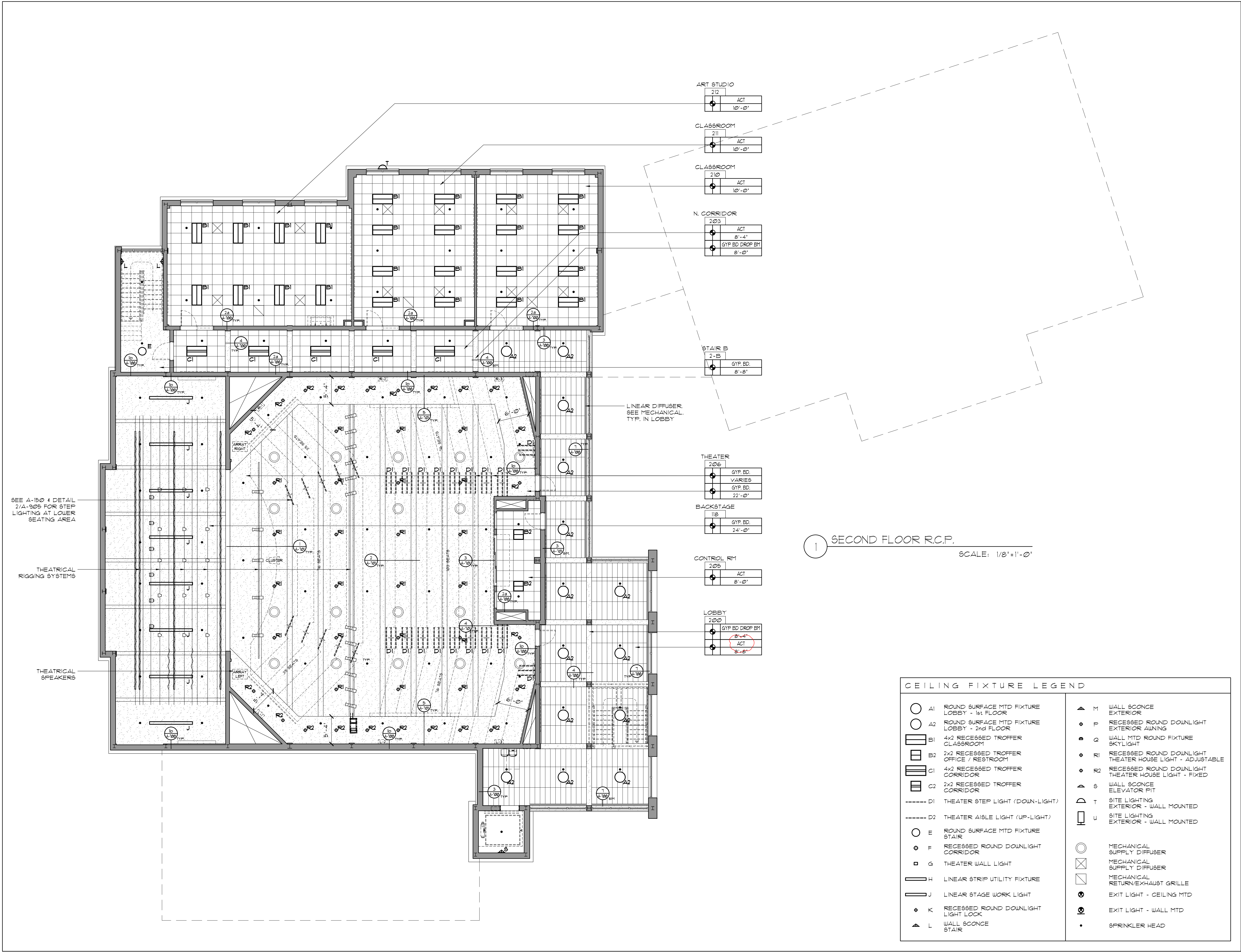
Landscape Architects

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Interior Architects



Key Plan (not to scale)



Key Plan (not to scale)

10.	6/23/2021	BID ADDENDUM 5
9.	6/22/2021	BID ADDENDUM 4
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
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
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		

Stamp

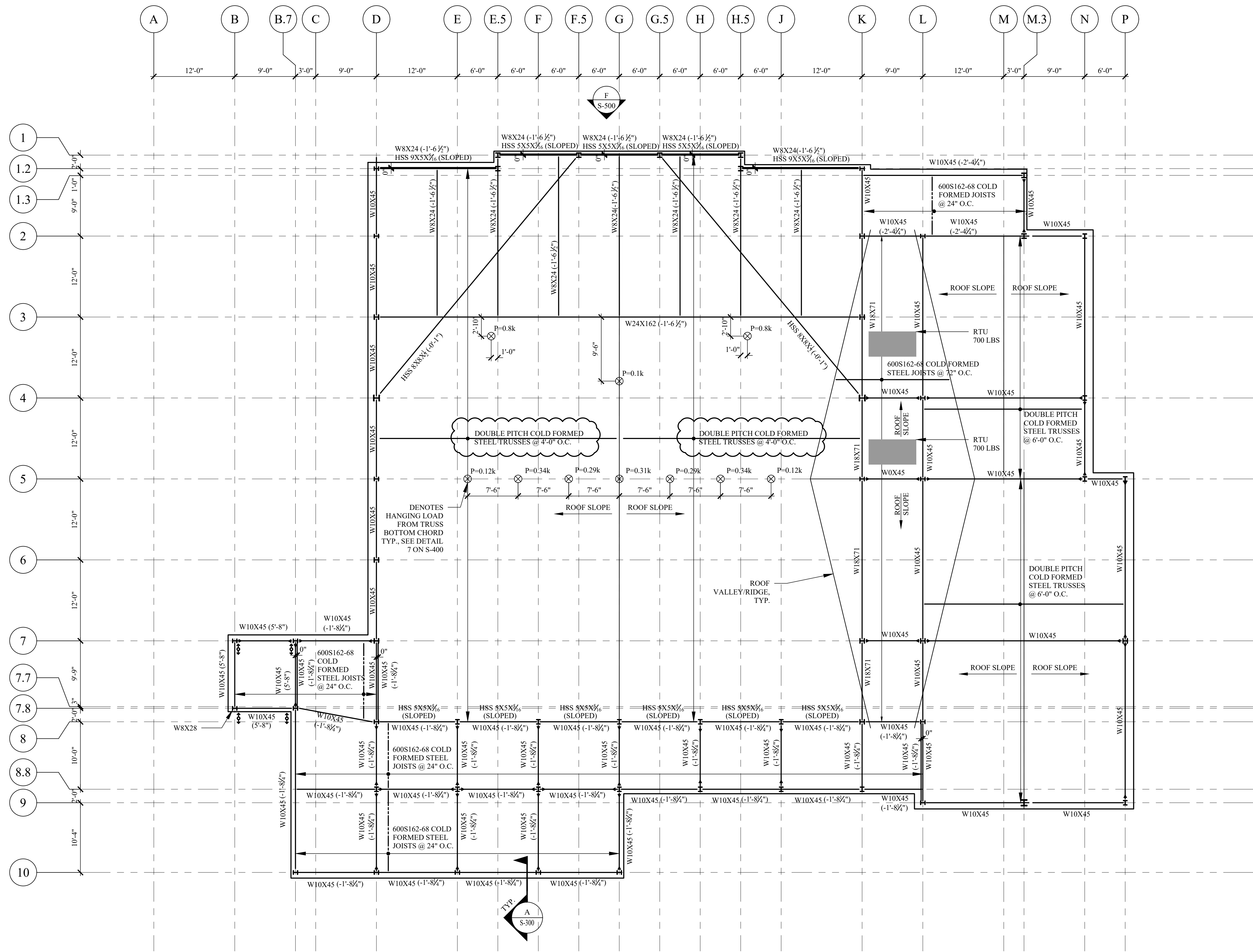
Project Title
IONA PREPARATORY SCHOOL
ADDITION AND ALTERATION TO THE
PAUL VERNI FINE ARTS CENTER

Project Address
IONA PREPARATORY SCHOOL
255 Wilmot Road
New Rochelle, NY 10804

Drawing Title
SECOND FLOOR
REFLECTED CEILING PLAN

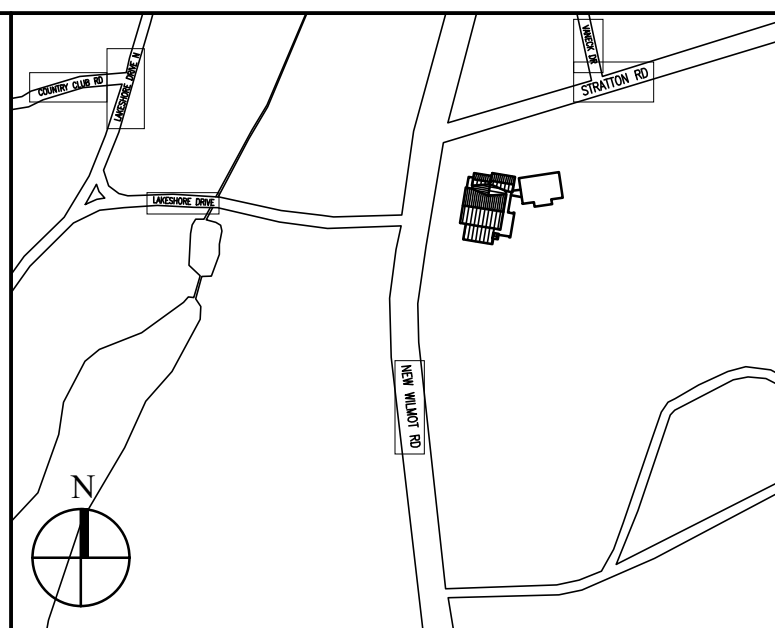
Scale	Job No.	Date	Drawing No.
AS NOTED	1618	04/03/2019	A-151

Drawn
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ROOF PLAN
SCALE: 1/8"=1'-0"

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



Key Plan (not to scale)

6.	6/23/2021	ADDENDUM 5
5.	6/18/2021	ISSUED FOR BUILDING PERMIT
4.	2/01/2021	ISSUED FOR BUILDING PERMIT REVIEW
3.	10/14/2020	ISSUED FOR PLANNING BOARD REVIEW
2.	9/23/2020	RESUBMITTED FOR ZONING REVIEW
1.	8/28/2020	ISSUED FOR PRELIMINARY DOB REVIEW
No.	Date	Revision/Submission
STRUCTURAL & SITE CIVIL ENGINEER		
DOMINICK R. PILLA ASSOCIATES, P.C. 143 MAIN STREET NYACK, NY 10960 845-757-7788		
MRP ENGINEER		
JMY CONSULTING ENGINEERING, P.C. 37 W. 39 STREET, STE 703 NEW YORK, NY 10018 212-852-9855		
ROOFING CONSULTANT		
WATSKY ASSOCIATES 20 MADISON AVENUE VALHALLA, NY 10595 914-948-3450		
Stamp		

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IONA PREPARATORY SCHOOL
ADDITION AND ALTERATION TO THE
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Project Address
IONA PREPARATORY SCHOOL
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Drawing Title
ROOF PLAN

Scale **Job No.** **Date** **Drawing No.**
1618 04/03/2019 S-103.00

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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.
- I. 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 COMPLIANCE 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 DEMOLISH 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. JMW SHALL BE COMPENSATED ON AN HOURLY 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"= 1'-0"
- 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. JMW 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 SETTINGS, ALL SETTINGS, 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 WARRANTY 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 MATERIAL, EQUIPMENT, OR PIPING WILL BE NECESSARY FOR THE PROPER INSTALLATION OF NEW WORK. ALL EXISTING CONDITIONS HAVE NOT BEEN COMPLETELY DETAILED ON THE DRAWINGS.

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 WORK.
- 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
- A. 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:
- HANGERS SUPPORTING LOADS OF MORE THAN 100 POUNDS MUST BE ATTACHED DIRECTLY TO THE BEAMS
 - 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 X 2 X 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 POWER 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 HF
- C. REFRIGERANT PIPING: COPPER TYPE ACR, WROUGHT COPPER FITTINGS, AUS FILLER BRAZED.
- D. CONDENSATE PIPING: TYPE L DRAIN-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 ADJUSTABLE 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 B16.24.
- B. FITTINGS: ANSI/ASME B16.3 CAST COPPER OR ANSI/ASME B16.22 SOLDER WROUGHT COPPER.
- C. JOINTS:
- 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.
 - 50 MM (2 INCHES) AND SMALLER: SCREWED OR WELDED JOINTS.
 - FORGED STEEL, SOCKET WELDING OR THREADED: ASME B16.11.
 - SCREWED: 150 POUND MALLEABLE IRON, ASME B16.3, 125 POUND CAST IRON, ASME B16.4, MAY BE USED. LIEU OF MALLEABLE IRON, BUSHING REDUCTION OF A SINGLE PIPE SIZE, OR USE OF CLOSE NIPPLES, IS NOT ACCEPTABLE.
 - UNIONS: ASME B16.33.
 - BUTT WELDING: ASME B16.3 WITH THE SAME WALL THICKNESS AS CONNECTING PIPING. ELBOWS SHALL BE LONG RADIUS TYPE, UNLESS OTHERWISE NOTED.
 - 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-COUPPLINGS, ASME B16.11 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 LESS 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:
- 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.

- BALL VALVES (PIPE SIZES 1-1/2" TO 4"): MSS-8P 1/2, 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 INSULATION.
- GATE: SHALL BE OF SOLID WEDGE DISK TYPE CLASS 150, TRAVELING STEM UNION BONNET. SIMILAR TO STOCKHAM B-180 OR EQUIVALENT.
- 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.
- CHECK: SWING TYPE, SCREWED CAPS, CLASS 150 BRONZE BODY, REGIND BRONZE DISC, SCREWED ENDS. CHECK TO BE SIMILAR TO STOCKHAM MODEL B-321 OR EQUIVALENT.
- STRAINERS - (THREADED, FLANGED OR BUTT WELDED ENDS) BRONZE BODY, SCREWED SCREEN RETAINER WITH CENTERED BLOW DOWN FITTED WITH PIPE FLUG, 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.
- 3-PORT HYDRONIC MIX VALVE: PROVIDE 3-PORT HYDRONIC MIX VALVE OF CAST BRONZE BODY WITH COPPER, BRASS AND POLYETHYLENE INTERIOR PARTS. AVAILABLE 3/4" AND 1". THE ACTUATOR FOR THE PISTON SHALL HAVE LINEAL EXPANSION CHARACTERISTICS, AND SHALL BE COMPLETELY FILLED WITH TEMPERATURE SENSITIVE WAX. EACH PORT 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 ANSI CLASS 150 CHILLER PIPING SYSTEM SEAT AND DISC DESIGN. ENSURES 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 TO FAIL-CLOSE. THIS VALVE IS ABLE TO COMMUNICATE WITH PLC CONTROLLER AND IS SIMILAR TO BELIMO MODEL HDU SERIES OR EQUIVALENT.
- THERMOMETERS: "ALL ANGLE" UNIVERSAL, SEPARATE SOCKET, INDUSTRIAL TYPE WITH #304 STAINLESS STEEL EXTENSION. NECK WELLS, WEISS OR APPROVED EQUAL.
- PRESSURE GAUGES: BOURBON TUBE SPRING TYPE WITH 4-1/2 DIAL SIZE, BRONZE TUBE, ALUMINUM CASE, WEISS OR APPROVED EQUAL.
- DIELECTRIC FITTING: FLANGE UNION TYPE. RATING SHALL BE COMPATIBLE WITH SYSTEM PRESSURES. INSTALL ON ALL STEEL TO COPPER PIPE. EPCO MODEL KXG.
- 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 LINED 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:
- ALL DUCTWORK IN AREAS WITH EXPOSED CEILING WHERE DUCTWORK IS VISIBLE
 - 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 1" 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, 14X14, LATCHED ALL AROUND SIMILAR TO VENTLOK. 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/OR 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-ACCESSIBLE 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:
- ARMSTRONG
 - CERTAINTEE
 - JOHNS-MANVILLE
 - KNAUF
 - OWENS-CORNING
 - 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 NFPA 90A AND UL 181.
- F. CONCEALED DUCTS: PROVIDE R6 MINIMUM INSULATION FOR ALL SUPPLY DUCTWORK COVER WITH FLEXIBLE GLASS FIBER INSULATION, K-VALUE AT 15 DEGREE FAHRENHEIT MAXIMUM 25 BTU-INHR-SQ FT F, 1/4" 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 PER15.
- G. ACOUSTIC LINING: CLASS 1 GLASS FIBER INSULATION WITH K-VALUE AT 15 DEGREE FAHRENHEIT MAXIMUM 24 BTU-INHR-SQ FT F, 3 PCF MINIMUM DENSITY, ABSOLUTE ROUGHNESS PER FT OF EXPOSED SURFACE NOT TO EXCEED 0.04 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.
- I. SECURE FLEXIBLE INSULATION TO DUCTWORK SURFACES WITH ADHESIVE AND WELDED CUFFED 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 BITUMASTIC

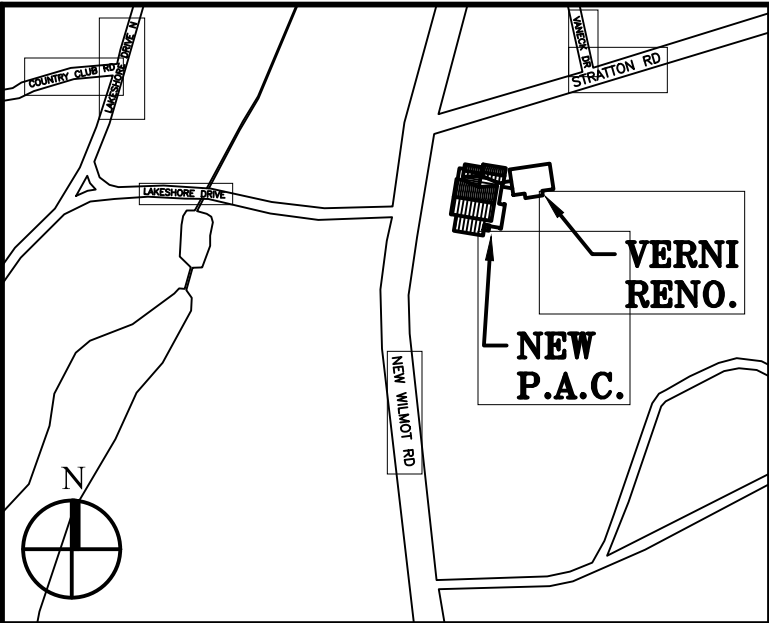
FLUID TEMP.	NOMINAL PIPE OR TUBE SIZE				
	<1"	1" TO <1 1/2"	1 1/2" TO <2"	2" TO <4"	4" TO <8"
<40°F	1"	1"	1"	1"	1"
40-60°F	1"	1"	1"	1"	1"
60-140°F	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
141-200°F	1 1/2"	1 1/2"	2"	2"	2"

K. REFRIGERANT PIPING:

- a. INDOOR REFRIGERANT PIPING 1" 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 TO 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).
- FLOOR MOUNTED EQUIPMENT- TYPE SUPER WSU
 - 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.



Key Plan (not to scale)

11.	6/23/2021	BID ADDENDUM 5
10.	6/16/2021	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 PLANNING BOARD REVIEW
3.	9/23/2020	RESUBMITTED FOR ZONING REVIEW
2.	6/28/2020	ISSUED FOR PRELIMINARY DOB REVIEW
1.	1/10/2020	ISSUED FOR DD ESTIMATE
No.		Date Revision/Submittal
STRUCTURAL & SITE CIVIL ENGINEER		
DOMINICK R PILLA ASSOCIATES, P.C. 143 MAIN STREET NYACK, NY 10960 945-727-7793		
MEP ENGINEER		
JMW CONSULTING ENGINEERING, P.C. 37 W. 59 STREET, STE 705 NEW YORK, NY 10019 212-662-9855		
ROOFING CONSULTANT		
WATSKY ASSOCIATES 20 MADISON AVENUE VALHALLA, NY 10986 914-945-3450		

Stamp

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
**MECHANICAL
SPECIFICATIONS I**

Scale	Job No.	Date	Drawing No.
NTS	20-2723	04/03/2019	M-101
Drawn			

Peter Gisolfi Associates
Architects Landscape Architects, LLP
566 Warburton Avenue
Hastings on Hudson, NY 10706
914 478 3677
PETER GISOLFI ASSOCIATES

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 8-HOOK FASTENER. 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. SYSTEM 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 & 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

PISTONS, 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-410A.

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 ISO 14001 FACILITY, STANDARDS SET BY THE INTERNATIONAL STANDARD ORGANIZATION (ISO). THE SYSTEM SHALL BE FACTORY TESTED FOR SAFETY AND FUNCTION.

i. 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 CORROSION 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 PROPPELLER TYPE, DIRECT-DRIVE 350 OR 150 W FAN MOTORS THAT HAVE MULTIPLE SPEED OPERATION VIA A DC (DIGITALLY COMMUTATING) INVERTER.

b. 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 LOWER FIN AND RIBBED 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 FINS TO AN E-PASS DESIGN.

d. THE FINS ARE TO BE COVERED WITH AN ANTI-CORROSION ACRYLIC RESIN AND HYDROPHILIC FILM TYPE EI.

E. COMPRESSOR:

a. THE INVERTER SCROLL COMPRESSORS SHALL BE VARIABLE SPEED (VFM 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.

b. 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 1,980 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 PERMITE 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 B19.2000.

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, FUEL 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 PSIG WORKING PRESSURE AND SHALL BE NATIONAL BOARD LISTED. THE HEAT EXCHANGER SHALL BE A "FIN TUBE" DESIGN WITH 3/8" 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 18 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 FC PORT ALLOWING THE CONNECTION OF FC 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 PSIG WORKING PRESSURE.

C. THE IMPELLER SHALL BE ASTM B584-836/875 BRONZE AND HYDRAULICALLY BALANCED. THE IMPELLER SHALL BE DYNAMICALLY BALANCED TO ANSI GRADE G6.3 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 (BPV CODE SEC. VIII, DIV. I) 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 I.

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

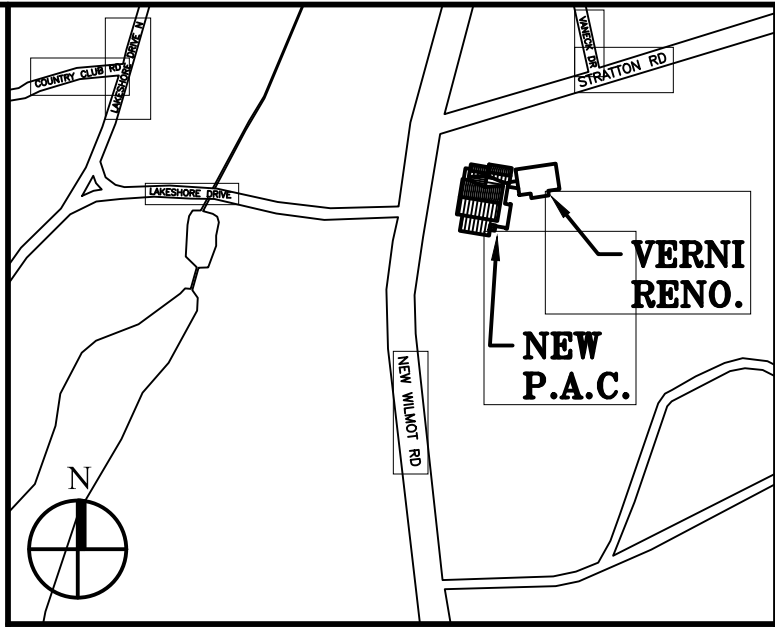
A. LABEL ALL PIPE EVERY 20 FT.

B. LABEL ALL RATED WALLS THAT PIPE PASSES THROUGH

C. TAG ALL VALVES AND PROVIDE VALVE TAG

HVAC SYMBOL LIST

	EXISTING DUCTWORK		NEW HOT WATER SUPPLY PIPE
	EXISTING DUCTWORK OR HVAC EQUIPMENT TO BE REMOVED		NEW HOW WATER RETURN PIPE
	NEW DUCTWORK		NEW CONDENSATE PIPE
	NEW ACOUSTICALLY LINED DUCTWORK		NORMALLY OPEN NORMALLY CLOSED
	EXISTING HVAC EQUIPMENT		DIRECTION OF FLOW PIPE UP PIPE DOWN
	NEW HVAC EQUIPMENT		PIPE CONTINUATION
	DUCT UP		CAPPED PIPE
	DUCT DOWN		CONNECT TO EXISTING
	AIR FLOW DIRECTION		BALL VALVE
	12" WIDE X 6" HIGH DUCT		BUTTERFLY VALVE
	AIR FLOW DIRECTION		GATE VALVE
	BALANCE TO 250 CFM		TWO WAY CONTROL VALVE
	CEILING DIFFUSER		THREE WAY CONTROL VALVE
	WALL GRILLE OR LINEAR BAR		CHECK VAVLE
	RETURN GRILLE		STRAINER
	FIRE DAMPER / ACCESS DOOR		TEMPERATURE GAUGE
	FIRE SMOKE DAMPER / ACCESS DOOR		PRESSURE GAUGE
	MOTORIZED DAMPER		BALL SHUTOFF AND GAUGE PORT / DRAIN
	VOLUME DAMPER		SENSOR T = TEMPERATURE F = FLOW
	DUCT DETECTOR		WATER PRESSURE REDUCTION VALVE
	CONDENSATE PUMP		AIR SEPARATOR
	LEAK DETECTOR		AIR VENT
	EXISTING AIR HANDLER		RELIEF VALVE
	NEW WALL MOUNTED VRF AIR HANDLER		RPZ
	DRAWING NOTE		PLUG VALVE
	CEILING ACCESS DOOR		PUMP
	VARIABLE FREQUENCY DRIVE		INLINE PUMP
	TYPICAL		FUNNEL DRAIN FLOOR DRAIN
	EXPANSION TANK		EXISTING TO REMAIN
	CLEARANCE AROUND EQUIPMENT		RELOCATED
	THERMOSTAT FOR AHU-1		TEMPERATURE SENSOR
	1/2" LIQUID AND 1-1/8" SUCTON REFRIGERATION LINES		1-1/2" CONDENSATE DRAIN PIPE
	ULTRAVIOLET TREATMENT SYSTEM		IONIZATION SYSTEM



Key Plan (not to scale)

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10.	6/16/2021	ISSUED FOR BUILDING PERMIT
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2.	8/28/2020	ISSUED FOR PRELIMINARY DOB REVIEW
1.	1/10/2020	ISSUED FOR DD ESTIMATE
No.	Date	Revision/Submision
STRUCTURAL & SITE CIVIL ENGINEER		
DOMINICK R PILLA ASSOCIATES, P.C. 143 MAIN STREET NYACK, NY 10960 845-727-7793		
MEP ENGINEER		
JMY CONSULTING ENGINEERING, P.C. 37 W. 59 STREET, 37E 705 NEW YORK, NY 10019 212-662-9855		
ROOFING CONSULTANT		
WATSKY ASSOCIATES 20 MADISON AVENUE VALHALLA, NY 10986 914-945-3450		

Stamp

Project Title
**IONA PREPARATORY SCHOOL
ADDITION AND ALTERATION TO THE
PAUL VERNI FINE ARTS CENTER**

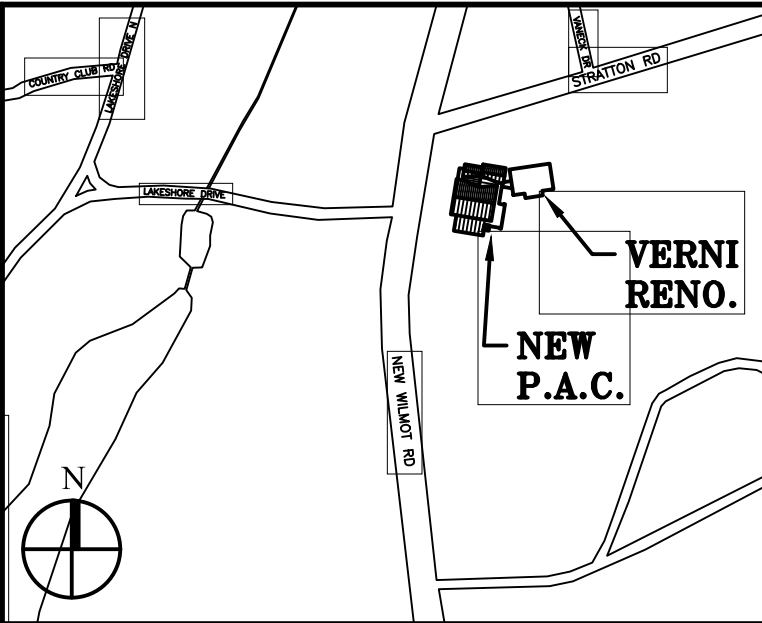
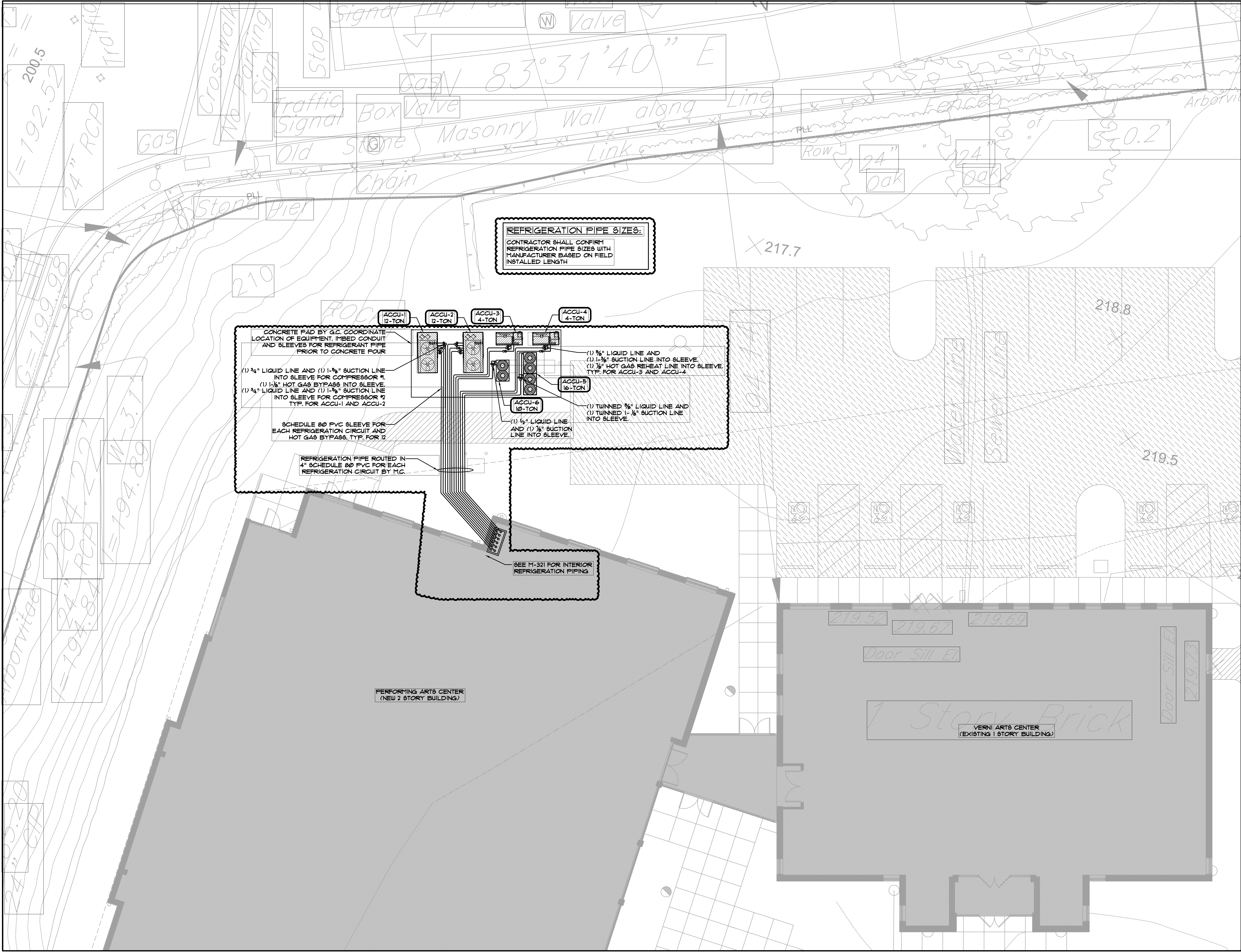
Project Address
**IONA PREPARATORY SCHOOL
255 Wilmot Road
New Rochelle, NY 10804**

Drawing Title
**MECHANICAL
SPECIFICATIONS II**

Scale	Job No.	Date	Drawing No.
NTS	20-2723	04/03/2019	M-102

Peter Gisolfi Associates
Architects - Landscape Architects, LLP
566 Warburton Avenue
Hastings on Hudson, NY 10706
914 478 3677

PETER GISOLFI ASSOCIATES



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No. Date Revision/Submission

STRUCTURAL & SITE CIVIL ENGINEER
DOMINICK R. PILLA
ASSOCIATES, P.C.
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NYACK, NY 10960
845-727-7793

MEP ENGINEER
JMY CONSULTING
ENGINEERING, P.C.
37 W. 59 STREET, STE 703
NEW YORK, NY 10019
212-862-9855

ROOFING CONSULTANT
WATSKY ASSOCIATES
20 MADISON AVENUE
VALHALLA, NY 10986
914-945-3450

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New Rochelle, NY 10804**

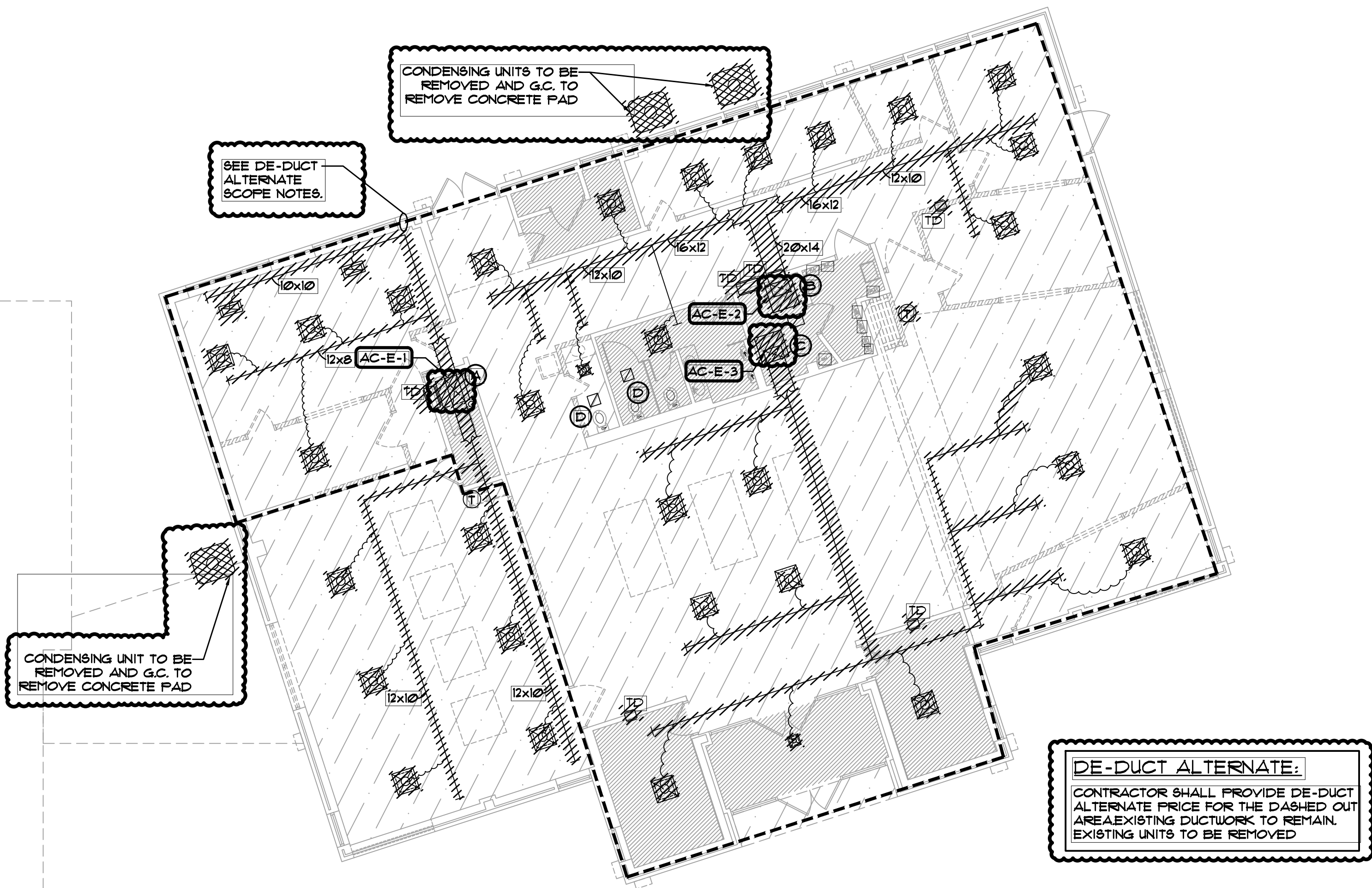
Drawing Title
MECHANICAL SITE PLAN

Scale Job No. Date Drawing No.
1/8"=1'-0" 20-2723 04/03/2019

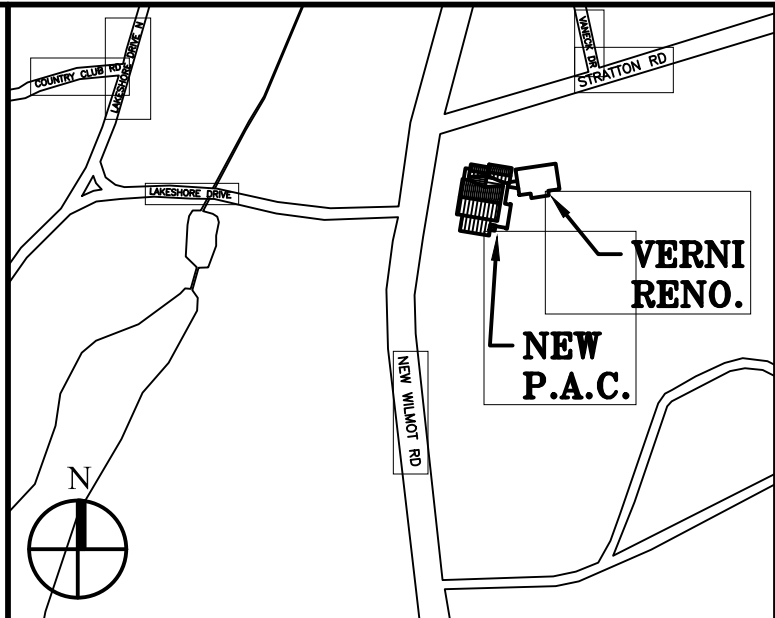
Drawn
M-103

Peter Gisolfi Associates
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566 Warburton Avenue
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914 478 3677

PETER GISOLFI ASSOCIATES



- MECHANICAL DEMOLITION NOTES:**
- (A)** AC-E-1: EXISTING 4.0 TON LUXAIRE INDOOR UNIT
M/N: FC48C3XNIH
S/N: WIN2331B3
GAS FURNACE
EXISTING AMERICAN STANDARD ALLEGIANCE 12
OUTDOOR UNIT
M/N: 1C2060A300A1
S/N: R214F6CF
 - (B)** AC-E-2: EXISTING 3.75 TON AMERICAN STANDARD INDOOR UNIT
M/N: CCB04B44ACD0
S/N: Z42IUU05G
GAS FURNACE
AMERICAN STANDARD OUTDOOR UNIT
 - (C)** AC-E-3: EXISTING 5.0 TON LUXAIRE INDOOR UNIT
M/N: FC60C3XCIA
S/N: WIN231B5T1
GAS FURNACE
M/N: AUD120C354K0
S/N: Z41ILGD2G
EXISTING AMERICAN STANDARD OUTDOOR UNIT
 - (D)** REMOVE EXISTING BATHROOM EXHAUST FAN



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DOMINICK R. PILLA ASSOCIATES, P.C. 143 MAIN STREET NYACK, NY 10960 845-727-7793		

MED ENGINEER	ROOFING CONSULTANT
JMY CONSULTING ENGINEERING, P.C. 37 W. 59 STREET, STE 703 NEW YORK, NY 10019 212-862-9855	WATSKY ASSOCIATES 20 MADISON AVENUE VALHALLA, NY 10995 914-948-3450

Stamp

Project Title
IONA PREPARATORY SCHOOL
ADDITION AND ALTERATION TO THE
PAUL VERNI FINE ARTS CENTER

Project Address
IONA PREPARATORY SCHOOL
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New Rochelle, NY 10804

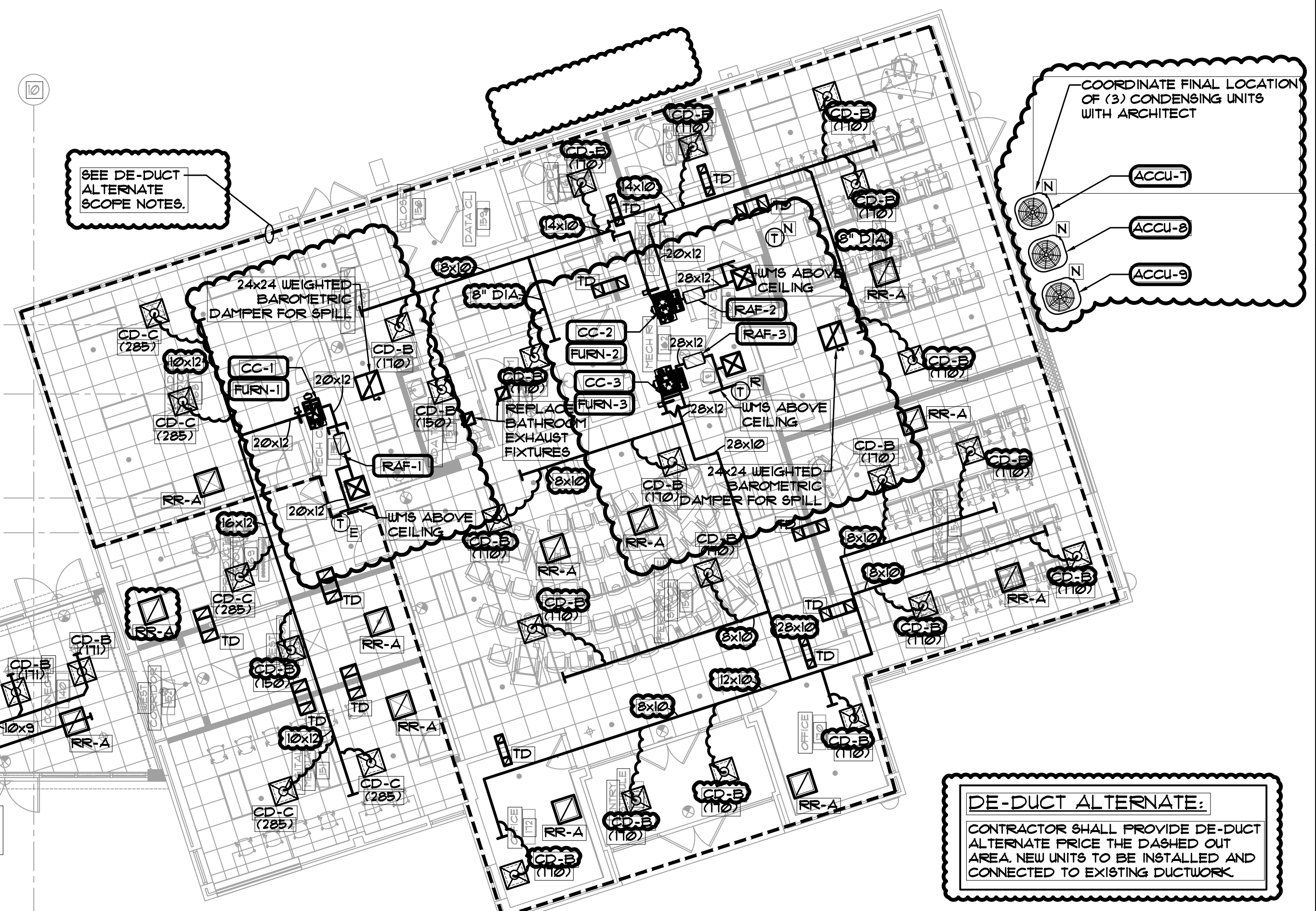
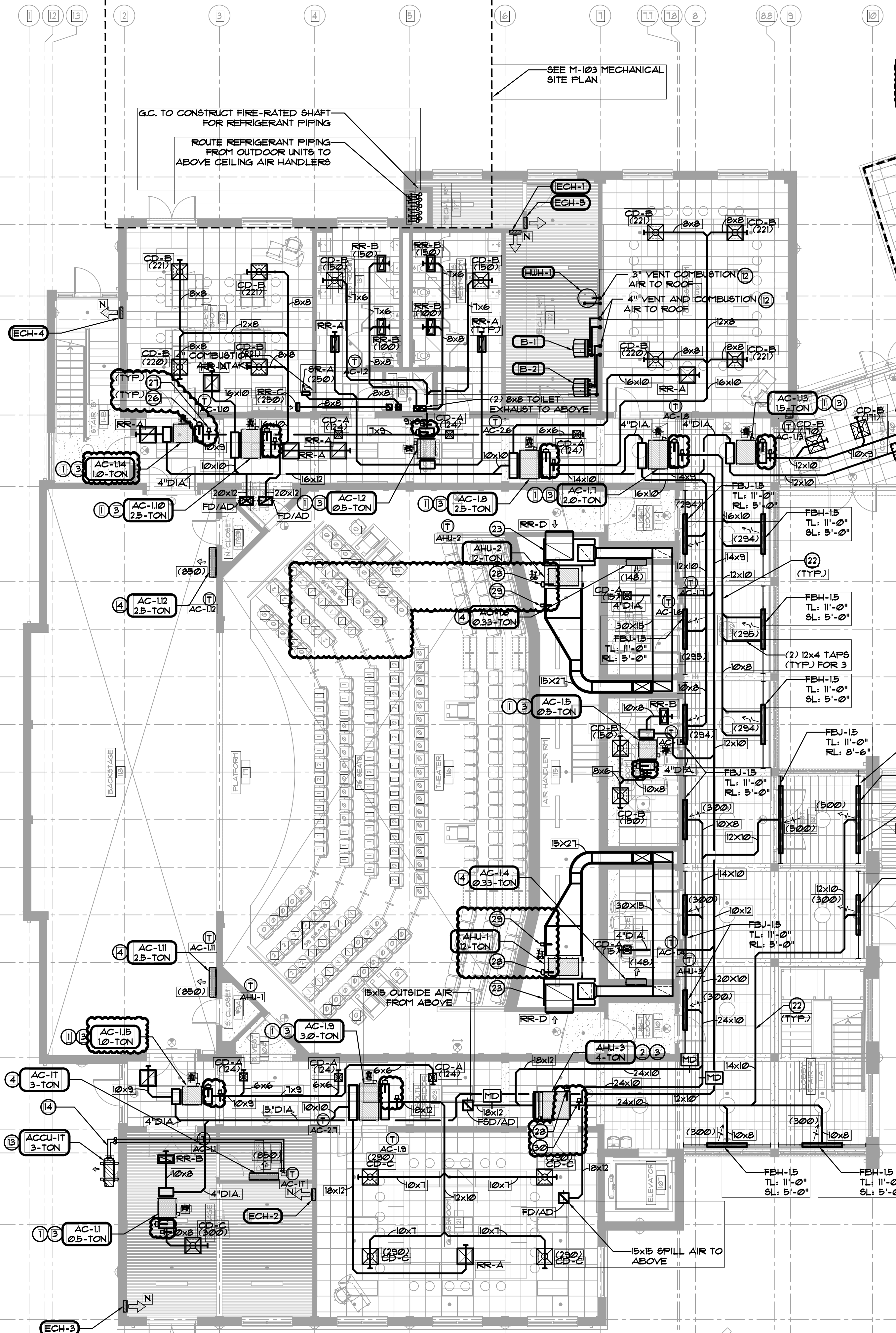
Drawing Title
FIRST FLOOR MECHANICAL
DEMOLITION PLAN

Scale	Job No.	Date	Drawing No.
1/8"=1'-0"	20-2723	04/03/2019	M-201

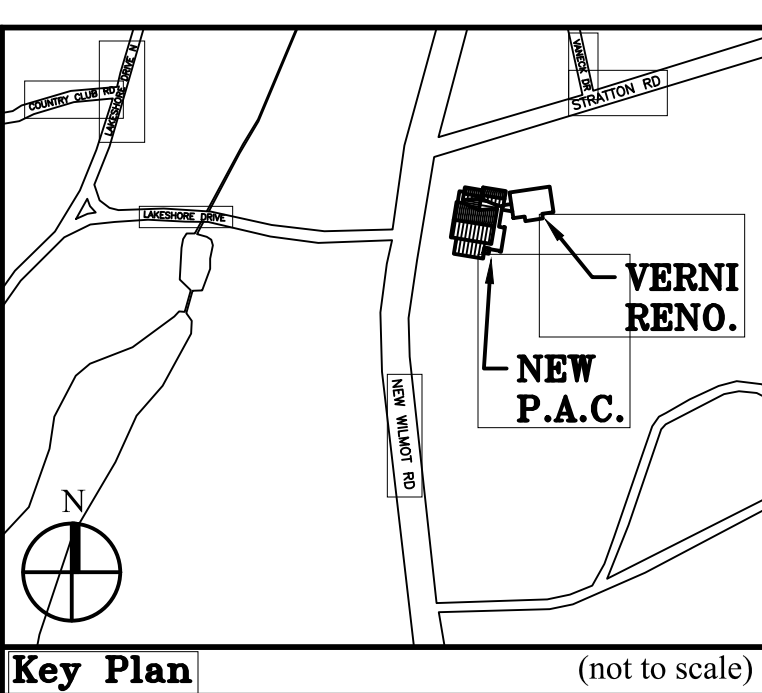
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566 Warburton Avenue
Hastings on Hudson, NY 10706
914-478-3677

PETER GISOLFI ASSOCIATES



- MECHANICAL CONSTRUCTION NOTES:**
- PROVIDE, STORE, RIG AND INSTALL NEW HORIZONTALLY SUSPENDED FAN COIL UNIT. CONTRACTOR TO PROPERLY HANG UNIT FROM SUPPLEMENTAL STEEL. PROVIDE THREADED RODS AND VIBRATION ISOLATORS. SEE AC HANGING DETAIL ON DRAWING FOR FURTHER DETAIL.
 - PROVIDE, STORE, RIG AND INSTALL NEW HORIZONTALLY SUSPENDED AIR HANDLER UNIT. CONTRACTOR TO PROPERLY HANG UNIT FROM SUPPLEMENTAL STEEL. PROVIDE THREADED RODS AND VIBRATION ISOLATORS. SEE AC HANGING DETAIL ON DRAWING FOR FURTHER DETAIL. COORDINATE HANGING WITH STRUCTURAL ENGINEER.
 - FOR ALL NEW FAN COIL UNITS AND AIR HANDLERS PROVIDE AND INSTALL NEW GALVANIZED STEEL AUXILIARY PAN WITH LIQUID DETECTOR SENSOR TO SHUT DOWN UNIT UPON THE DETECTION OF LIQUID. CONTRACTOR TO LOCATE SENSOR AT LOWEST POINT IN PAN. SEE DETAIL. ROUTE COPPER CONDENSATE DRAIN PIPE TO NEAREST DRAIN.
 - PROVIDE AND INSTALL NEW WALL MOUNT FAN COIL UNIT AS SCHEDULED. PROVIDE NEW AUXILIARY DRAIN PAN WITH LEAK DETECTOR. AUXILIARY DRAIN PAN SHALL BE CLOSE TO THE WALL AS NOT TO IMPEDE SUPPLY AIRFLOW.
 - PROVIDE AND INSTALL NEW FLOUBARS AND LINEAR BARS FOR SUPPLY AND RETURN AS SCHEDULED AND INDICATED ON PLANS.
 - BALANCE NEW SYSTEMS TO ACHIEVE CFM QUANTITIES SHOWN.
 - PAINT ALL SUPPLY AND RETURN PLENUMS FLAT BLACK ON INTERIOR OR AS SPECIFIED BY ARCHITECT.
 - INSTALL CABLE OPERATED VOLUME DAMPERS (COD) IN ALL BRANCH DUCTS. NOT ALL DAMPERS ARE SHOWN ON PLANS. DAMPERS ARE REQUIRED TO PROPERLY BALANCE EACH AIR TERMINAL. REFER TO SPECIFICATION FOR MORE INFO.
 - INSTALL DUCTWORK WITH 1/2" THICK ACOUSTICAL LINING AS SHOWN ON DRAWINGS AND/OR A MINIMUM OF 15'-0" FROM AC UNIT DISCHARGE AND INTAKE. APPLY MASTIC ON ALL EDGES OF CUT ACOUSTICAL LINING.
 - CONTRACTOR TO COORDINATE NEW DUCT ROUTING WITH ALL TRADES AND GENERAL FLOOR CONDITIONS. CONFLICTS THAT CAN NOT BE SOLVED IN FIELD, SHALL BE BROUGHT TO ARCHITECT/ENGINEER'S ATTENTION.
 - PROVIDE AND INSTALL NEW HARD-WIRED, BATTERY BACK-UP, PROGRAMMABLE THERMOSTATS WITH TWO OCCUPIED AND (2) UN-OCCUPIED SETTINGS PER DAY. COORDINATE EXACT LOCATION WITH ARCHITECT. PRIOR TO ROUGHING IN WIRES.
 - PROVIDE DURAVENT POLYPRO PIPE FOR BOILER AND HOT WATER HEATER VENT AND COMBUSTION AIR FLUES. PROVIDE ALL NECESSARY ACCESSORIES FOR COMPLETE INSTALLATION. PVC IS NOT ACCEPTABLE.
 - PROVIDE AND INSTALL NEW CONDENSING UNIT. PROVIDE NEW MANUFACTURER WALL BRACKET. MOUNT UNIT ON NEOPRENE ISOLATION PADS. ABIDE BY ALL MANUFACTURER'S CLEARANCE REQUIREMENTS. EXTEND ALL NECESSARY SERVICES FOR PROPER FUNCTIONALITY OF UNIT.
 - ROUTE INSULATED REFRIGERANT PIPING FROM NEW CONDENSING UNITS TO AIR HANDLERS. ENSURE TO STAY WITHIN MANUFACTURER'S MAXIMUM PIPING GUIDELINES.
 - G.C. TO PROVIDE PENETRATIONS FOR NEW REFRIGERANT PIPE, CONDENSATE PIPE, CONTROL CONDUIT AND ELECTRICAL PIPING THROUGH WALLS AND FLOORS. FIRE SAFE AND SEAL TO CODE UPON COMPLETION.
 - PROVIDE AND INSTALL NEW FAN AS SCHEDULED. HANG FROM THREADED RODS AND MANUFACTURER'S VIBRATION ISOLATORS.
 - CONTRACTOR TO PROPERLY FLASH ALL DUCT AND PIPE PENETRATIONS. PENETRATIONS TO BE WEATHER-TIGHT. FINAL LOCATIONS TO BE COORDINATED WITH FIELD CONDITIONS.
 - PROVIDE AND INSTALL NEW SPILL AIR FAN. PROVIDE ANGLE-IRON TO REINFORCE NEW OPENING THROUGH ROOF. SEAL AND FLASH NEW PENETRATION. ROOFING CONTRACTOR TO PROVIDE AND INSTALL NEW CUSTOM CURB FOR PITCHED ROOF.
 - PROVIDE AND INSTALL NEW EXHAUST FAN. PROVIDE ANGLE-IRON TO REINFORCE NEW OPENING THROUGH ROOF. SEAL AND FLASH NEW PENETRATION. ROOFING CONTRACTOR TO PROVIDE AND INSTALL NEW CUSTOM CURB FOR PITCHED ROOF.
 - PROVIDE AND INSTALL NEW ENERGY RECOVERY VENTILATOR AS SCHEDULED. PROVIDE ANGLE-IRON TO REINFORCE NEW OPENING THROUGH ROOF. SEAL AND FLASH NEW PENETRATION. ROOFING CONTRACTOR TO PROVIDE AND INSTALL NEW CUSTOM CURB FOR PITCHED ROOF.
 - NEW BOILER AND HOT WATER HEATER FLUES DISCHARGE ON ROOF. TERMINATION SHALL BE IN ACCORDANCE WITH THE 2020 FUEL GAS CODE OF NEW YORK STATE 503.6.5. CONTRACTOR TO PROPERLY SEAL WEATHER-TIGHT AND FIRE-SAFE ROOF PENETRATION. SEE SCHEDULE FOR SIZE OF VENTS.
 - 10" HIGH DUCTS MAX
 - SEE A-410 FOR SPACE ALLOCATED FOR DUCT SERVING AHU 1-2
 - SEE A-100 FOR FLOUBAR INSTALLATION DETAIL.
 - DOUBLE STRAP ALL FLEX DUCT CONNECTIONS TO RIGID COLLARS
 - PROVIDE AND INSTALL HONEYWELL UV TREATMENT SYSTEM ON UNIT COIL. MODEL: UV100E3001
 - PROVIDE AND INSTALL ATMOS AIR IONIZATION SYSTEM IN SUPPLY DUCT. MODEL: FC420PM
 - PROVIDE AND INSTALL FACTORY SUPPLIED UV TREATMENT SYSTEM. ORDER WITH AIR HANDLING UNIT.
 - PROVIDE AND INSTALL ATMOS AIR IONIZATION SYSTEM ON AUDITORIUM UNIT SUPPLY DUCT. MODEL: 500EC
 - PROVIDE AND INSTALL ATMOS AIR IONIZATION SYSTEM ON LOBBY UNIT SUPPLY DUCT. MODEL: MATTERHORN 1000



Key Plan (not to scale)

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MEP ENGINEER		
JMY CONSULTING ENGINEERING, P.C. 37 W. 59 STREET, STE 703 NEW YORK, NY 10019 212-662-9855		
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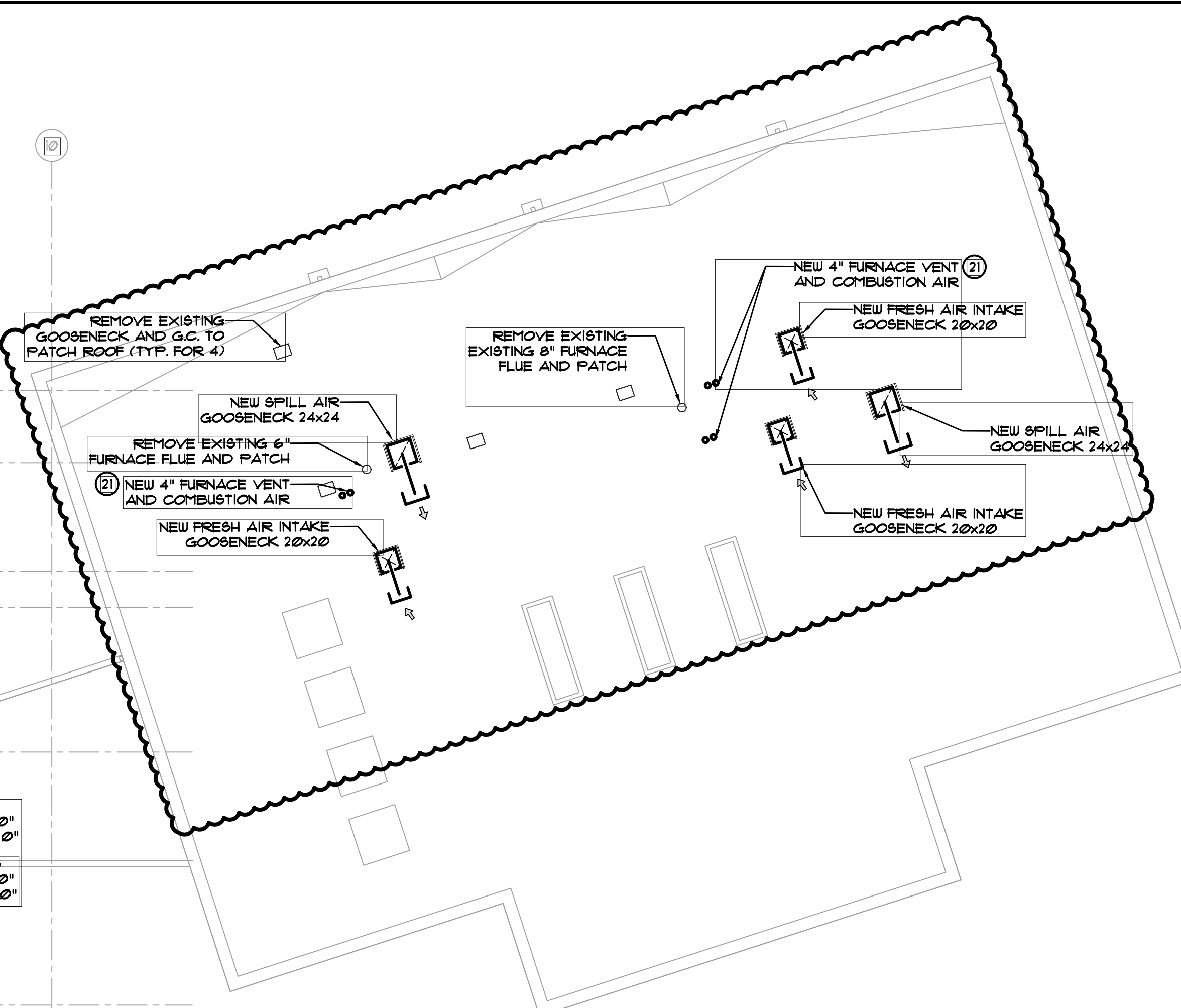
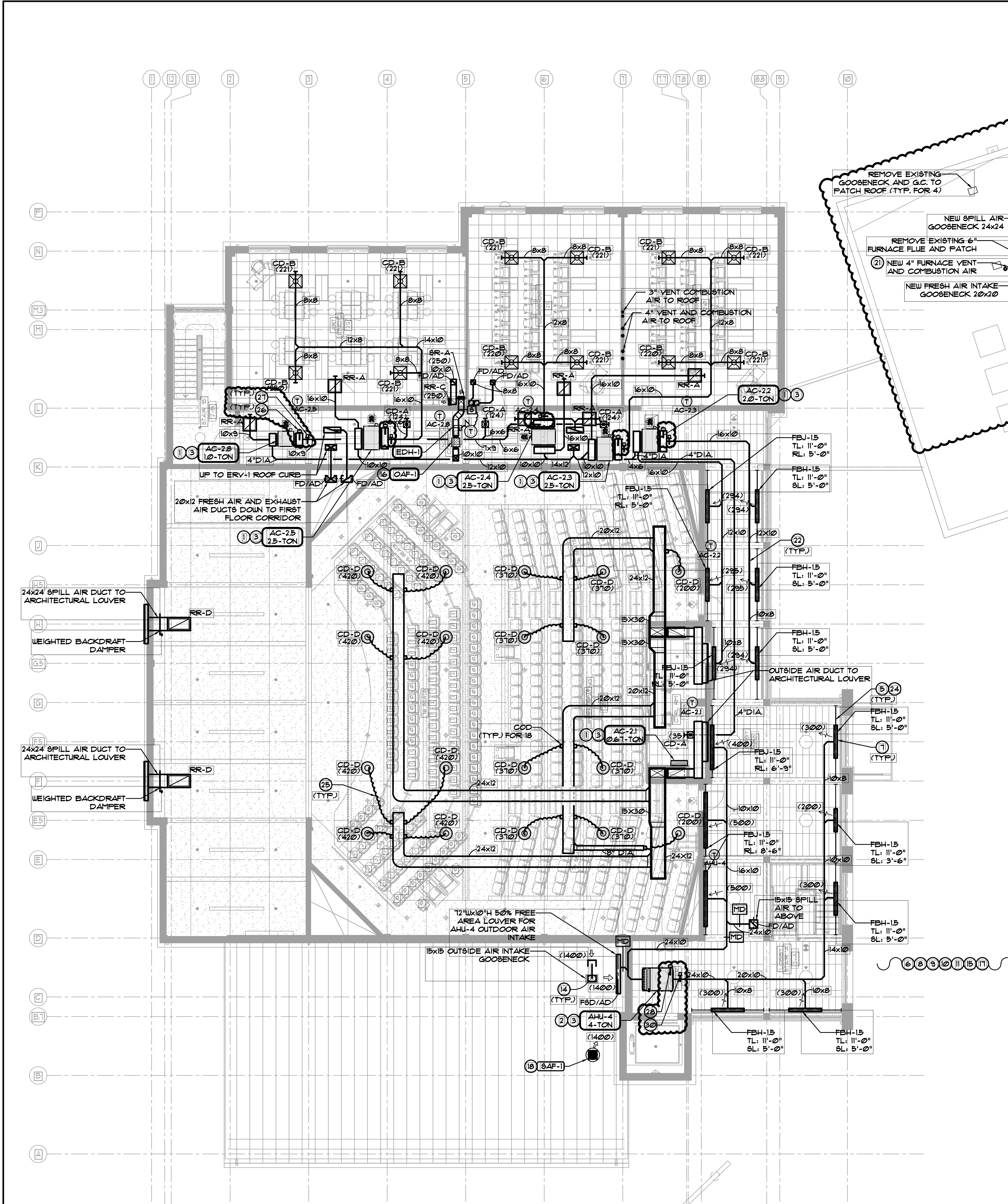
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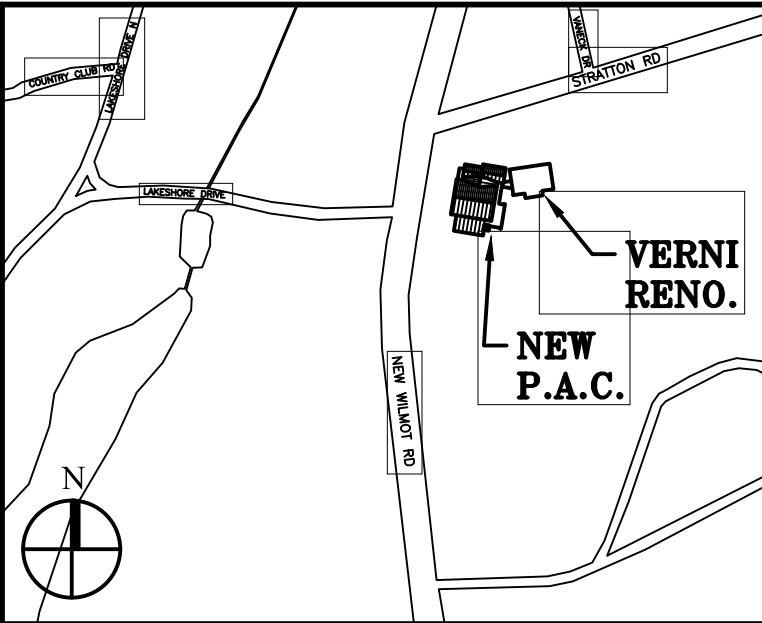
Project Address
**IONA PREPARATORY SCHOOL
255 Wilmot Road
New Rochelle, NY 10804**

Drawing Title
**FIRST FLOOR MECHANICAL
CONSTRUCTION PLAN**

Scale	Job No.	Date	Drawing No.
1/8"=1'-0"	20-2723	04/03/2019	M-301
Drawn			
Peter Gisolfi Associates Architects Landscape Architects, LLP 566 Warburton Avenue Hastings on Hudson, NY 10706 914 478 3677			
PETER GISOLFI ASSOCIATES			



- MECHANICAL CONSTRUCTION NOTES:**
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 - PROVIDE AND INSTALL NEW FLOUBARS AND LINEAR BARS FOR SUPPLY AND RETURN AS SCHEDULED AND INDICATED ON PLANS.
 - BALANCE NEW SYSTEMS TO ACHIEVE CFM QUANTITIES SHOWN.
 - PAINT ALL SUPPLY AND RETURN PLENUMS FLAT BLACK ON INTERIOR OR AS SPECIFIED BY ARCHITECT.
 - INSTALL CABLE OPERATED VOLUME DAMPERS (COD) IN ALL BRANCH DUCTS. NOT ALL DAMPERS ARE SHOWN ON PLANS. DAMPERS ARE REQUIRED TO PROPERLY BALANCE EACH AIR TERMINAL. REFER TO SPECIFICATION FOR MORE INFO.
 - INSTALL DUCTWORK WITH 1-1/2" THICK ACOUSTICAL LINING AS SHOWN ON DRAWINGS AND/OR A MINIMUM OF 15'-0" FROM AC UNIT DISCHARGE AND INTAKE. APPLY MASTIC ON ALL EDGES OF CUT ACOUSTICAL LINING.
 - CONTRACTOR TO COORDINATE NEW DUCT ROUTING WITH ALL TRADES AND GENERAL FLOOR CONDITIONS. CONFLICTS THAT CAN NOT BE SOLVED IN FIELD, SHALL BE BROUGHT TO ARCHITECT/ENGINEER'S ATTENTION.
 - PROVIDE AND INSTALL NEW HARD-WIRED, BATTERY BACK-UP, PROGRAMMABLE THERMOSTATS WITH TWO OCCUPIED AND (2) UN-OCCUPIED SETTINGS PER DAY. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGHING IN WIRES.
 - PROVIDE DURAVENT POLYPRO PIPE FOR BOILER AND HOT WATER HEATER VENT AND COMBUSTION AIR FLUES. PROVIDE ALL NECESSARY ACCESSORIES FOR COMPLETE INSTALLATION. PVC IS NOT ACCEPTABLE.
 - PROVIDE AND INSTALL NEW CONDENSING UNIT. PROVIDE NEW MANUFACTURER WALL BRACKET. MOUNT UNIT ON NEOPRENE ISOLATION PADS. ABIDE BY ALL MANUFACTURER'S CLEARANCE REQUIREMENTS. EXTEND ALL NECESSARY SERVICES FOR PROPER FUNCTIONALITY OF UNIT.
 - ROUTE INSULATED REFRIGERANT PIPING FROM NEW CONDENSING UNITS TO AIR HANDLERS. ENSURE TO STAY WITHIN MANUFACTURER'S MAXIMUM PIPING GUIDELINES.
 - GC TO PROVIDE PENETRATIONS FOR NEW REFRIGERANT PIPE, CONDENSATE PIPE, CONTROL CONDUIT AND ELECTRICAL PIPING THROUGH WALLS AND FLOORS. FIRE SAFE AND SEAL TO CODE UPON COMPLETION.
 - PROVIDE AND INSTALL NEW FAN AS SCHEDULED. HANG FROM THREADED RODS AND MANUFACTURER'S VIBRATION ISOLATORS.
 - CONTRACTOR TO PROPERLY FLASH ALL DUCT AND PIPE PENETRATIONS. PENETRATIONS TO BE WEATHER-TIGHT. FINAL LOCATIONS TO BE COORDINATED WITH FIELD CONDITIONS.
 - PROVIDE AND INSTALL NEW SPILL AIR FAN. PROVIDE ANGLE-IRON TO REINFORCE NEW OPENING THROUGH ROOF. SEAL AND FLASH NEW PENETRATION. ROOFING CONTRACTOR TO PROVIDE AND INSTALL NEW CUSTOM CURB FOR PITCHED ROOF.
 - PROVIDE AND INSTALL NEW EXHAUST FAN. PROVIDE ANGLE-IRON TO REINFORCE NEW OPENING THROUGH ROOF. SEAL AND FLASH NEW PENETRATION. ROOFING CONTRACTOR TO PROVIDE AND INSTALL NEW CUSTOM CURB FOR PITCHED ROOF.
 - PROVIDE AND INSTALL NEW ENERGY RECOVERY VENTILATOR AS SCHEDULED. PROVIDE ANGLE-IRON TO REINFORCE NEW OPENING THROUGH ROOF. SEAL AND FLASH NEW PENETRATION. ROOFING CONTRACTOR TO PROVIDE AND INSTALL NEW CUSTOM CURB FOR PITCHED ROOF.
 - NEW BOILER AND HOT WATER HEATER FLUES DISCHARGE ON ROOF. TERMINATION SHALL BE IN ACCORDANCE WITH THE 2020 FUEL GAS CODE OF NEW YORK STATE §202.6.5. CONTRACTOR TO PROPERLY SEAL WEATHER-TIGHT AND FIRE SAFE ROOF PENETRATION. SEE SCHEDULE FOR SIZE OF VENTS.
 - 10" HIGH DUCTS MAX.
 - SEE A-410 FOR SPACE ALLOCATED FOR DUCT SERVING AHU 1-2.
 - SEE A-100 FOR FLOUBAR INSTALLATION DETAIL.
 - DOUBLE STRAP ALL FLEX DUCT CONNECTIONS TO RIGID COLLARS.
 - PROVIDE AND INSTALL HONEYWELL UV TREATMENT SYSTEM ON UNIT COIL. MODEL: UV100E3001.
 - PROVIDE AND INSTALL ATMOS AIR IONIZATION SYSTEM IN SUPPLY DUCT. MODEL: FC400R1.
 - PROVIDE AND INSTALL FACTORY SUPPLIED UV TREATMENT SYSTEM. ORDER WITH AIR HANDLING UNIT.
 - PROVIDE AND INSTALL ATMOS AIR IONIZATION SYSTEM ON AUDITORIUM UNIT SUPPLY DUCT. MODEL: 500EC.
 - PROVIDE AND INSTALL ATMOS AIR IONIZATION SYSTEM ON LOBBY UNIT SUPPLY DUCT. MODEL: MATTERHORN 1000.



Key Plan (not to scale)

11.	6/23/2021	BID ADDENDUM 5
10.	6/16/2021	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.	6/07/2021	RE-ISSUED FOR BUILDING PERMIT REVIEW
5.	2/01/2021	ISSUED FOR BUILDING BOARD 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 REVIEW
1.	1/10/2020	ISSUED FOR DD ESTIMATE
No.	Date	Revision/Submittal
STRUCTURAL & SITE CIVIL ENGINEER		
DOMINICK R. PILLA		
ASSOCIATES, P.C.		
143 MAIN STREET		
NYACK, NY 10960		
845-727-7793		
MEP ENGINEER		
JMY CONSULTING		
ENGINEERING, P.C.		
37 W. 59 STREET, STE 703		
NEW YORK, NY 10019		
212-862-9855		
ROOFING CONSULTANT		
WATSKY ASSOCIATES		
20 MADISON AVENUE		
VALHALLA, NY 10986		
914-945-3450		

Stamp

Project Title

IONA PREPARATORY SCHOOL
ADDITION AND ALTERATION TO THE
PAUL VERNI FINE ARTS CENTER

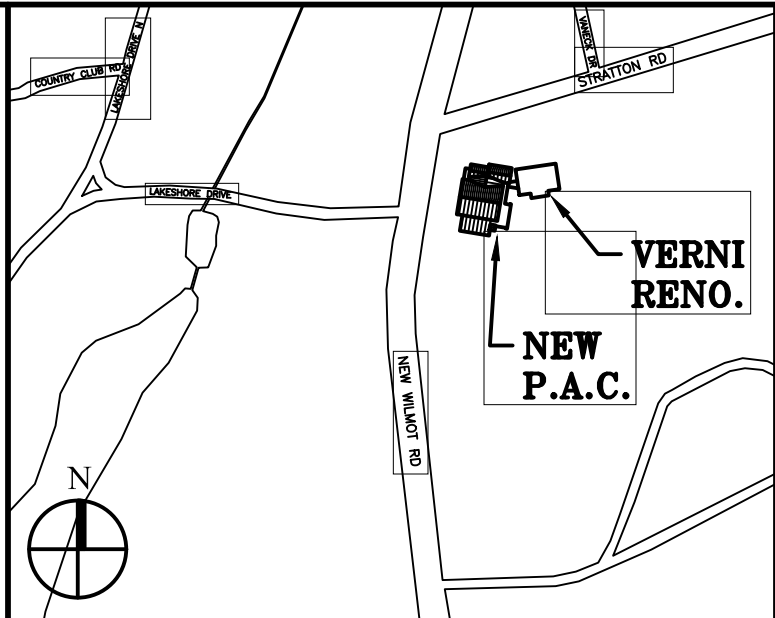
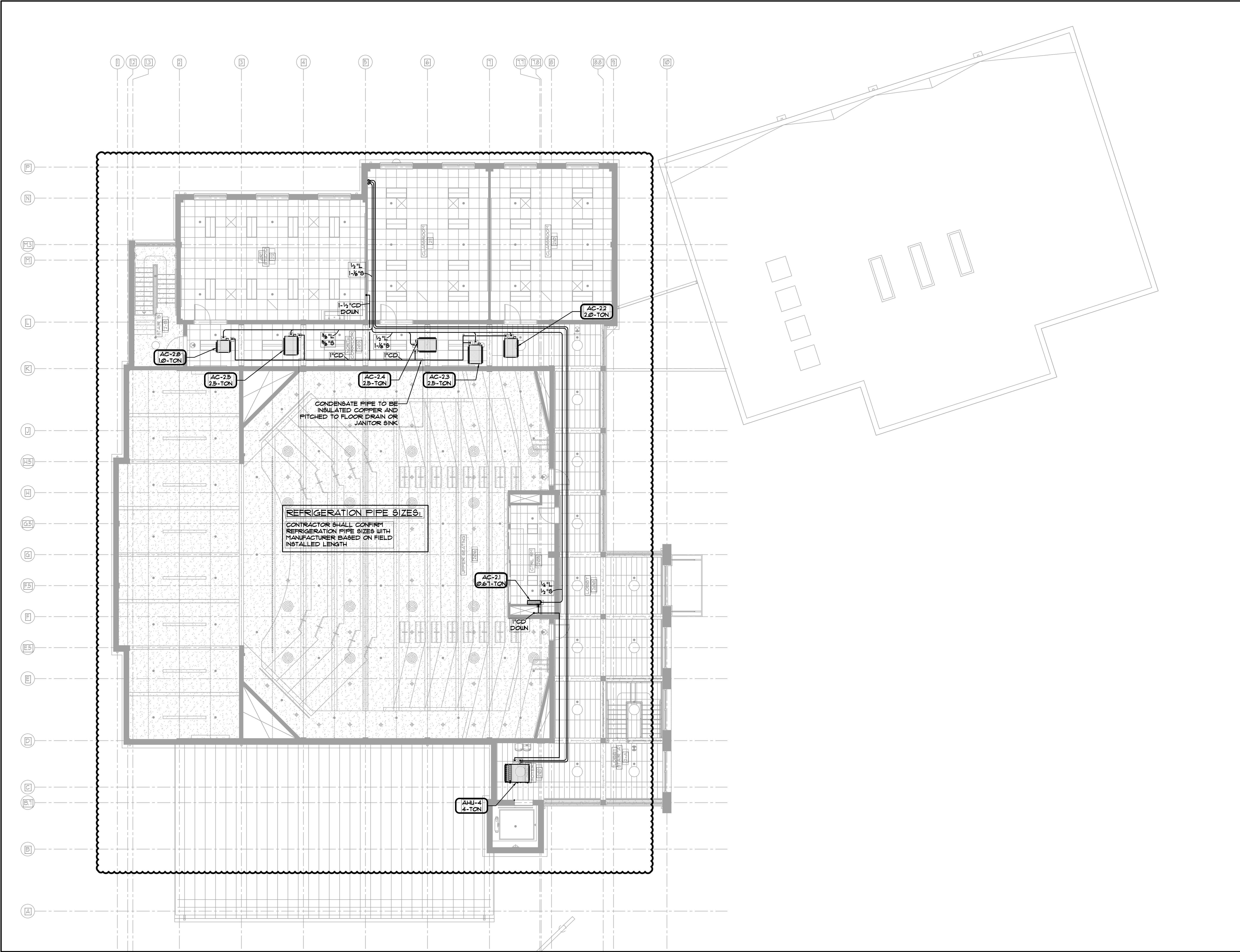
Project Address

IONA PREPARATORY SCHOOL
255 Wilmot Road
New Rochelle, NY 10804

Drawing Title

SECOND FLOOR MECHANICAL
CONSTRUCTION PLAN

Scale	Job No.	Date	Drawing No.
1/8"=1'-0"	20-2723	04/03/2019	M-302
Drawn			
Peter Gisolfi Associates			
Architects Landscape Architects, LLP			
666 Warburton Avenue			
Hastings on Hudson, NY 10706			
914 478 3677			
PETER GISOLFI ASSOCIATES			



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DOMINICK R PILLA ASSOCIATES, P.C. 143 MAIN STREET NYACK, NY 10960 845-727-7793		
MEP ENGINEER		
JMY CONSULTING ENGINEERING, P.C. 37 W. 59 STREET, STE 703 NEW YORK, NY 10019 212-862-9855		
ROOFING CONSULTANT		
WATSKY ASSOCIATES 20 MADISON AVENUE VALHALLA, NY 10986 914-948-3450		

Stamp

Project Title
IONA PREPARATORY SCHOOL
ADDITION AND ALTERATION TO THE
PAUL VERNI FINE ARTS CENTER

Project Address
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255 Wilmot Road
New Rochelle, NY 10804

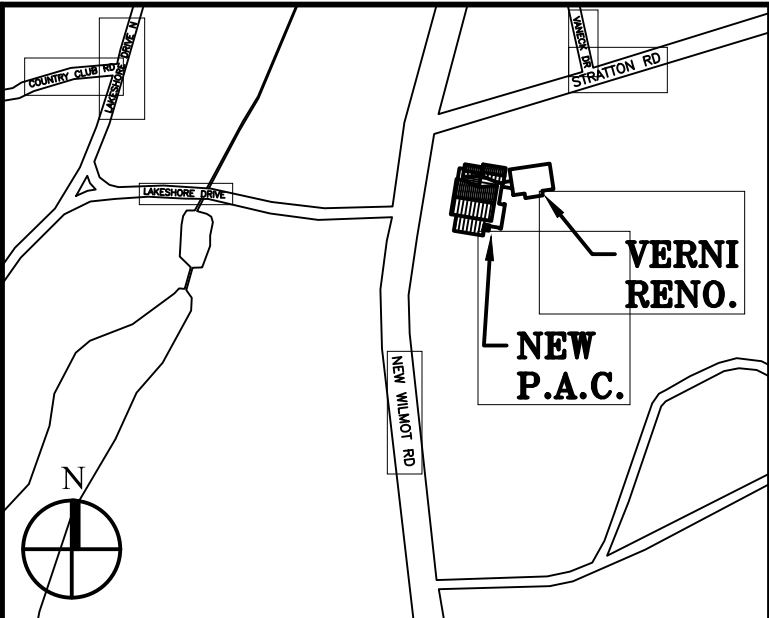
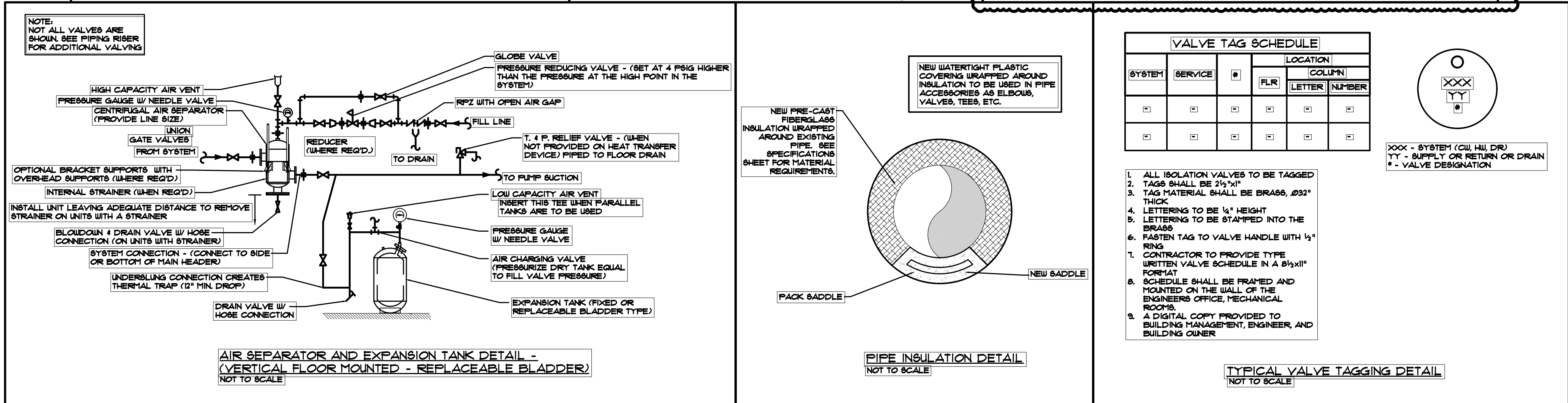
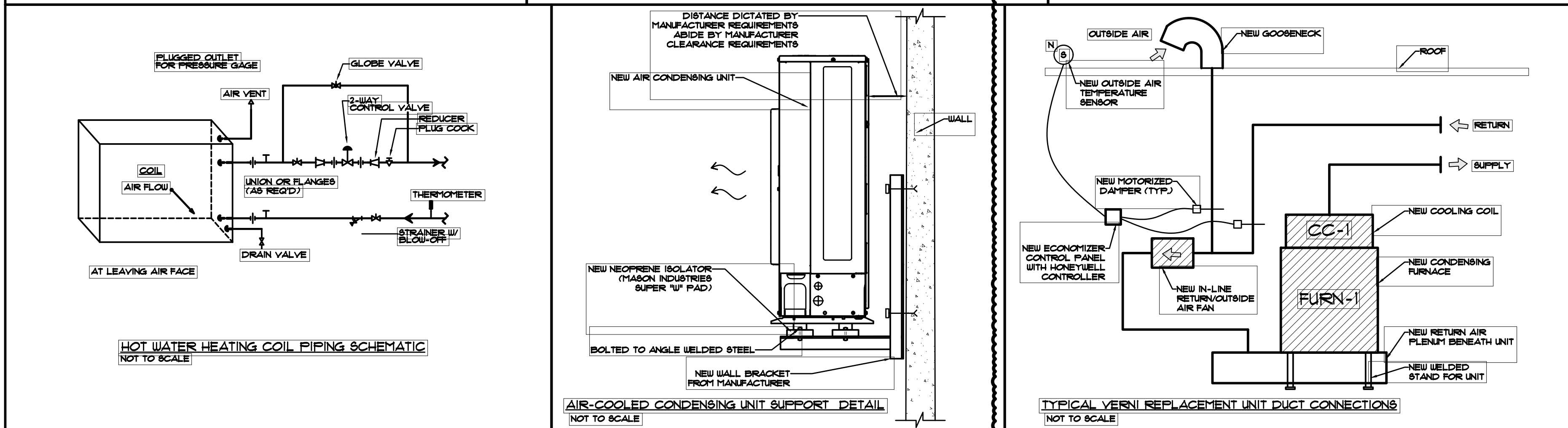
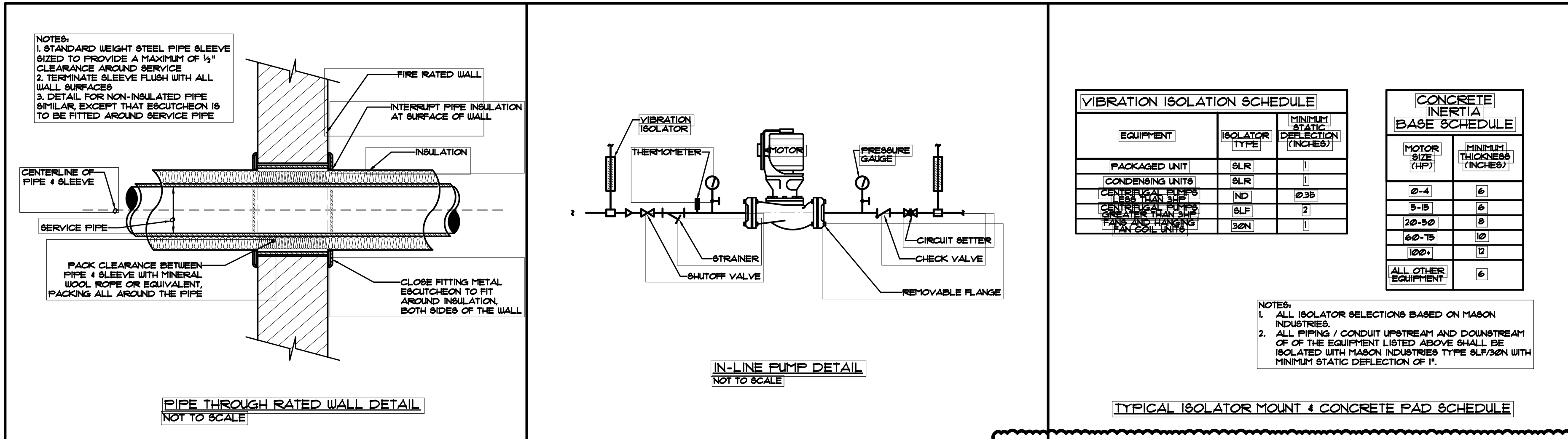
Drawing Title
SECOND FLOOR
REFRIGERANT PIPING PLAN

Scale	Job No.	Date	Drawing No.
1/8"=1'-0"	20-2723	04/03/2019	M-322

Drawn

Peter Gisolfi Associates
Architects Landscape Architects, LLP
566 Warburton Avenue
Hastings on Hudson, NY 10706
914 478 3677

PETER GISOLFI ASSOCIATES



Key Plan (not to scale)

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145 MAIN STREET		
NYACK, NY 10960		
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WATSKY ASSOCIATES		
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VALHALLA, NY 10986		
914-945-3450		

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IONA PREPARATORY SCHOOL
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Project Address

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255 Wilmot Road
New Rochelle, NY 10804

Drawing Title

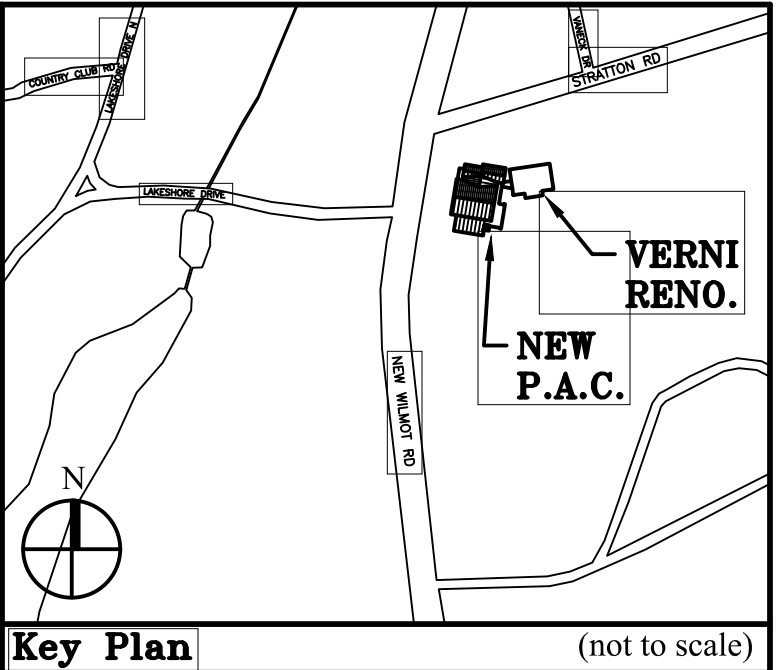
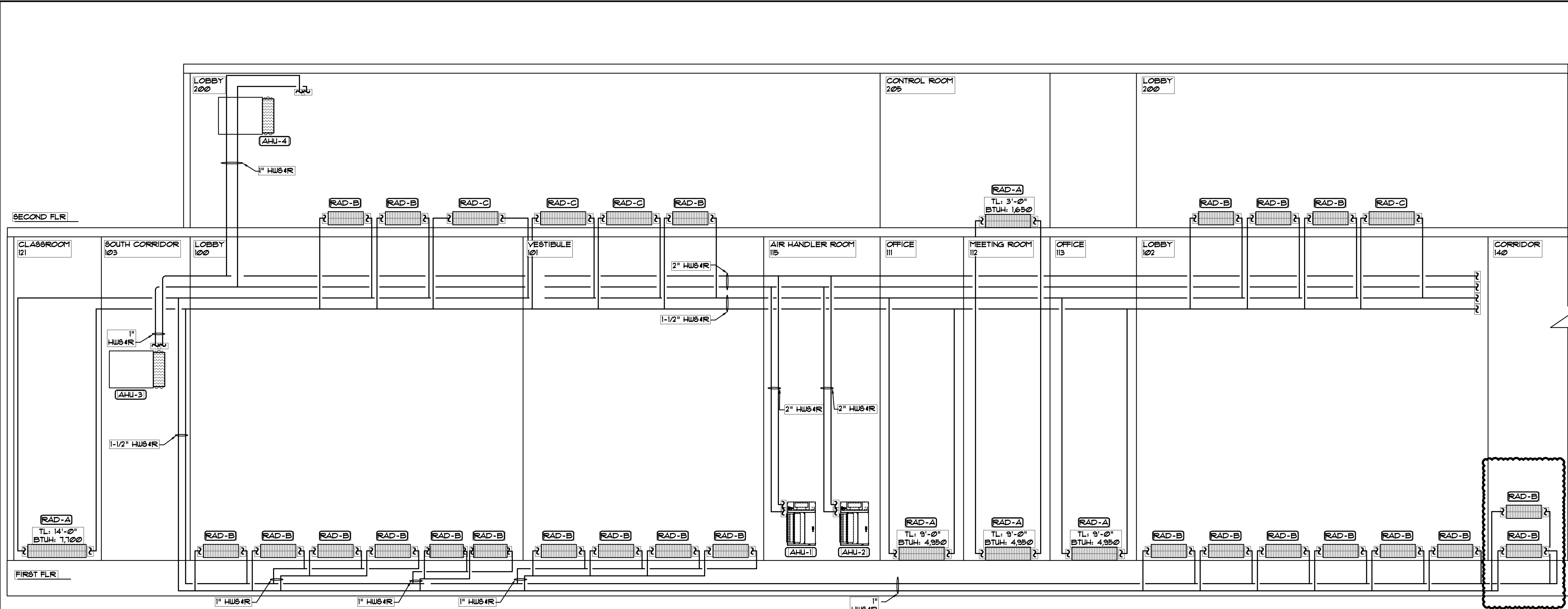
MECHANICAL DETAILS III

Scale	Job No.	Date	Drawing No.
NTS	20-2723	04/03/2019	M-403
Drawn			

Peter Gisolfi Associates
Architects Landscape Architects, LLP

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Hastings on Hudson, NY 10706
914 478 3677

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Project Title
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ADDITION AND ALTERATION TO THE
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New Rochelle, NY 10804**

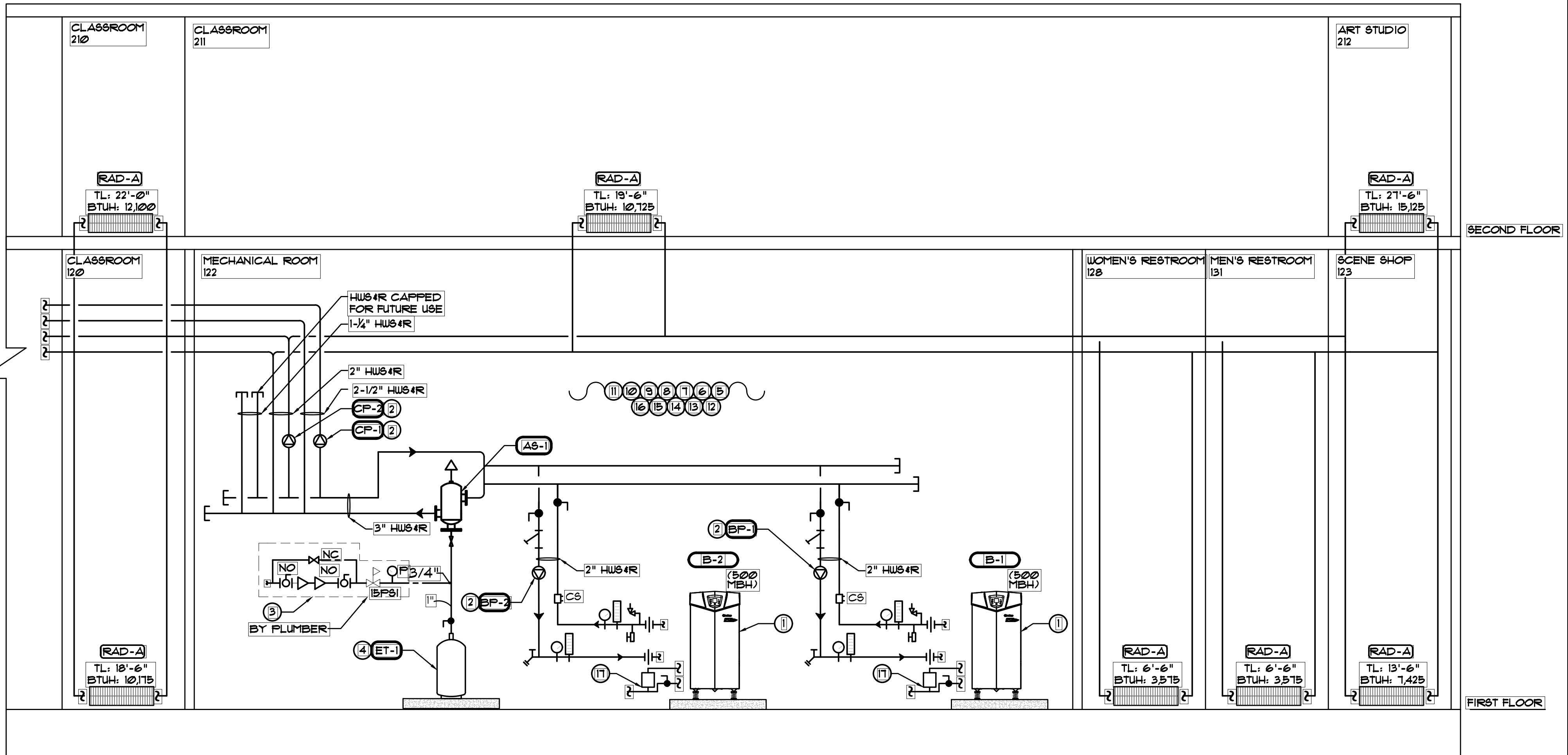
Drawing Title
**MECHANICAL HOT WATER
RISER DIAGRAM**

Scale	Job No.	Date	Drawing No.
NTS	20-2723	04/03/2019	M-501

Peter Gisolfi Associates
Architects Landscape Architects, LLP
566 Warburton Avenue
Hastings on Hudson, NY 10706
914 478 3677
PETER GISOLFI ASSOCIATES

CONSTRUCTION NOTES:

1. PURCHASE, STORE, TRANSPORT, RIG AND INSTALL NEW BOILER. ABIDE BY ALL MANUFACTURER'S CLEARANCE REQUIREMENTS. EXTEND ALL NECESSARY SERVICES FOR PROPER FUNCTIONALITY OF UNIT.
2. PROVIDE AND INSTALL NEW PUMP SETUP. ABIDE BY ALL MANUFACTURER'S CLEARANCE REQUIREMENTS. EXTEND ALL NECESSARY SERVICES FOR PROPER FUNCTIONALITY.
3. TAP EXISTING COLD WATER LINE WITH MANUAL (NO) SHUT OFF VALVES, AND AN APPROVED SECONDARY RPZ VALVE TO FEED MAKE-UP SYSTEMS.
4. PROVIDE AND INSTALL NEW EXPANSION TANK. INSTALL NEW VALVES & GAUGES AS REQUIRED.
5. PROVIDE AND INSTALL ALL NEW PIPING AS SHOWN AND AS NECESSARY.
6. CONTRACTOR TO PROVIDE & INSTALL VALVE AND DEVICE TAGS FOR EACH VALVE & DEVICE INSTALLED. CONTRACTOR SHALL PROVIDE LAMINATED VALVE IDENTIFICATION SHEET.
7. RETAIN 3RD PARTY BALANCING COMPANY TO BALANCE SYSTEMS TO ACHIEVE PROPER GPM QUANTITIES SHOWN. PROVIDE 3RD PARTY BALANCING REPORT.
8. PROVIDE NEW MANUALLY OPERATED REMOTE EMERGENCY GAS SHUTOFF FOR EMERGENCY SHUTDOWN OF ALL OF THE BURNER CONTROLS, WHICH WILL IN EFFECT SHUTDOWN ALL OTHER COMPONENTS OF THE BOILER SYSTEM. LOCATE OUTSIDE OF BOILER ROOM, AND PROVIDE TAMPER PROOF COVER TO AVOID ACCIDENTAL TAMPERING.
9. PROVIDE ALL VALVING AS SHOWN ON RISER DIAGRAM, ON DETAILS AND AS NECESSARY FOR A COMPLETE SYSTEM. VALVING AND PIPE APPARATUS NOT SHOWN ON PLAN.
10. PROVIDE KINDOFF SUPPORTS FOR ALL NEW PANELS AND CONTROLS.
11. PROVIDE NEW KINDOFF BRACKET SUPPORTS FOR ALL NEW INLINE PUMPS. SUPPORT OFF WALL WHEN NECESSARY.
12. PROVIDE AND INSTALL NEW TAMPERPROOF OUTDOOR AIR SENSOR LOCATED OUT ON STREET. TIE BACK INTO BOILER CONTROLS.
13. G.C. TO FIRE SAFE ALL OPENINGS IN WALLS AND CEILING. CONTRACTOR RESPONSIBLE FOR FIRE RATING NEW AND EXISTING PENETRATIONS.
14. MECHANICAL CONTRACTOR TO RETAIN PLUMBER TO PERFORM ALL COLD WATER, HOT WATER AND HOT WATER RETURN PIPING DISCONNECT AND RECONNECT. PLUMBER TO PERFORM THE FOLLOWING:
 - DEMO EXISTING PLUMBING PIPING FROM TURBOMAX UNIT.
 - PIPE DOMESTIC WATER TO NEW WATER HEATERS AND PROVIDE ALL NECESSARY VALVING.
 - INSULATE ALL PIPING TO MEET CODE.
 - TIE PIPING BACK TO MIXING VALVE AND ENSURE ALL CONTROLLERS ARE WORKING PROPERLY.
 - EXTEND NEW COLD WATER TO NEW PRVS AND RPZ'S IN BOILER ROOM. INSTALL ONE FOR CONDENSER WATER SYSTEM AND ONE FOR HOT WATER SYSTEM.
 - COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR
 - EXTEND GAS TO NEW BOILERS AND PROVIDE ALL APPROPRIATE VALVING.
15. MECHANICAL CONTRACTOR TO RETAIN LICENSED ELECTRICAL CONTRACTOR TO PERFORM ALL ELECTRICAL WORK IN SCOPE.
16. NEW 1" DRAIN LINE TO INDIRECT DRAIN. PROVIDE CONDENSATE NEUTRALIZING SYSTEM FOR CONDENSING BOILER PRIOR TO ENTERING DRAIN. DRAIN TO BE CPVC BEFORE KIT AND COPPER AFTER.



SPLIT AIR CONDITIONING UNIT SCHEDULE																													
AIR HANDLING UNIT														AIR COOLED CONDENSING UNIT															
AHU NO.	SERVICE	NOMINAL TONNAGE	COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH)	CFM HIGH/LOW	MAX ESP	MANUF.	TYPE	MODEL	UNIT ELECTRICAL CHAR			AIR HANDLER WEIGHT (LBS)	SOUND PRESSURE (dBA)	PHYSICAL DIMENSIONS HxWxD (in.)	COND. UNIT	MANUF.	MODEL*	COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH)	SOUND PRESSURE (dBA)	EFF.	MODULE	# OF COMP.	COND. UNIT ELEC.			COND. UNIT WEIGHT (LBS)	PHYSICAL DIMENSIONS HxWxD (in.)
										VOLTS-PHASE	MCA	MOCP													VOLTS - PHASE	MCA	MOP		
AC-11	STORAGE 134	0.5	6,000	6,100	300 212	0.6	mitsubishi electric	DUCTED - CEILING UNIT	PEFY-P06NMAU-E3	200/1	11	15	49	29	9-1/8" x 21-9/16" x 28-1/8"	ACCU-5	ME	FUHY-P192TSNU-A	192,000	216,000	62	EER 112 IEER 23.4 COP 3.59	MODULE #1	1	200/3	33	50	569	11-10/16" x 48-14/16" x 29-3/16"
AC-12	WOMEN'S RESTROOM 133 & MEN'S RESTROOM 139	0.5	6,000	6,100	300 212	0.6	mitsubishi electric	DUCTED - CEILING UNIT	PEFY-P06NMAU-E3	200/1	11	15	49	29	9-1/8" x 21-9/16" x 28-1/8"														
AC-13	DELETED																												
AC-14	OFFICE 114	0.33	4,000	4,500	148 111	N/A	mitsubishi electric	WALL MOUNTED CASSETTE	PKFY-P04NLMU-E	200/1	02	15	24	28	11-25/32" x 30-7/16" x 9-11/32"														
AC-15	FACULTY LOUNGE 115	0.5	6,000	6,100	300 212	0.6	mitsubishi electric	DUCTED - CEILING UNIT	PEFY-P06NMAU-E3	200/1	11	15	49	29	9-1/8" x 21-9/16" x 28-1/8"														
AC-16	OFFICE 116	0.33	4,000	4,500	148 111	N/A	mitsubishi electric	WALL MOUNTED CASSETTE	PKFY-P04NLMU-E	200/1	02	15	24	28	11-25/32" x 30-7/16" x 9-11/32"														
AC-17	LOBBY 102	2.0	24,000	21,000	883 618	0.6	mitsubishi electric	DUCTED - CEILING UNIT	PEFY-P24NMAU-E3	200/1	2.1	15	61	39	9-1/8" x 43-5/16" x 28-1/8"														
AC-18	CLASSROOM 120	2.5	30,000	34,000	883 618	0.6	mitsubishi electric	DUCTED - CEILING UNIT	PEFY-P30NMAU-E3	200/1	2.1	15	61	39	9-1/8" x 43-5/16" x 28-1/8"														
AC-19	CLASSROOM 121	3.0	36,000	40,000	1165 812	0.6	mitsubishi electric	DUCTED - CEILING UNIT	PEFY-P36NMAU-E3	200/1	3.32	15	86	41	9-1/8" x 55-1/8" x 28-1/8"														
AC-110	SCENE SHOP 122	2.0	24,000	21,000	883 618	0.6	mitsubishi electric	DUCTED - CEILING UNIT	PEFY-P24NMAU-E3	200/1	2.1	15	61	39	9-1/8" x 43-5/16" x 28-1/8"														
AC-111	STAGE 118	2.5	30,000	34,000	850 710	N/A	mitsubishi electric	WALL MOUNTED CASSETTE	PKFY-P30NKMU-E	200/1	0.5	15	46	49	14-3/8" x 46-1/16" x 11-5/8"														
AC-112	STAGE 118	2.5	30,000	34,000	850 710	N/A	mitsubishi electric	WALL MOUNTED CASSETTE	PKFY-P30NKMU-E	200/1	0.5	15	46	49	14-3/8" x 46-1/16" x 11-5/8"														
AC-113	PASSAGEWAY 140	1.5	18,000	20,000	512 424	0.4	mitsubishi electric	DUCTED - CEILING UNIT	PEFY-P18NMAU-E3	200/1	1.56	15	58	32	9-1/8" x 35-7/16" x 28-1/8"														
AC-114	FIRST FLOOR NORTH CORRIDOR 105	1.0	12,000	13,500	371 265	0.6	mitsubishi electric	DUCTED - CEILING UNIT	PEFY-P12NMAU-E3	200/1	1.2	15	49	34	9-1/8" x 21-9/16" x 28-1/8"														
AC-115	FIRST FLOOR SOUTH CORRIDOR 103	1.0	12,000	13,500	371 265	0.6	mitsubishi electric	DUCTED - CEILING UNIT	PEFY-P12NMAU-E3	200/1	1.2	15	49	34	9-1/8" x 21-9/16" x 28-1/8"														
AC-21	CONTROL ROOM 215	0.67	8,000	9,000	231 141	N/A	mitsubishi electric	WALL MOUNTED CASSETTE	PKFY-P08NLMU-E	200/1	0.3	15	25	35	11-25/32" x 30-7/16" x 9-11/32"	ACCU-6	ME	FUHY-P120TNU-A	120,000	135,000	62	EER 123 IEER 23.6 COP 3.8	SINGLE MODULE	1	200/3	41	60	594	11-10/16" x 48-14/16" x 29-3/16"
AC-22	LOBBY 201	2.0	24,000	21,000	883 618	0.6	mitsubishi electric	DUCTED - CEILING UNIT	PEFY-P24NMAU-E3	200/1	2.1	15	61	39	9-1/8" x 43-5/16" x 28-1/8"														
AC-23	CLASSROOM 220	2.5	30,000	34,000	883 618	0.6	mitsubishi electric	DUCTED - CEILING UNIT	PEFY-P30NMAU-E3	200/1	2.1	15	61	39	9-1/8" x 43-5/16" x 28-1/8"														
AC-24	CLASSROOM 221	2.5	30,000	34,000	883 618	0.6	mitsubishi electric	DUCTED - CEILING UNIT	PEFY-P30NMAU-E3	200/1	2.1	15	61	39	9-1/8" x 43-5/16" x 28-1/8"														
AC-25	ART STUDIO 222	2.5	30,000	34,000	883 618	0.6	mitsubishi electric	DUCTED - CEILING UNIT	PEFY-P30NMAU-E3	200/1	2.1	15	61	39	9-1/8" x 43-5/16" x 28-1/8"														
AC-26	ART STUDIO 222	2.5	30,000	34,000	883 618	0.6	mitsubishi electric	DUCTED - CEILING UNIT	PEFY-P30NMAU-E3	200/1	2.1	15	61	39	9-1/8" x 43-5/16" x 28-1/8"														
AC-28	SECOND FLOOR NORTH CORRIDOR 203	1.0	12,000	13,500	371 265	0.6	mitsubishi electric	DUCTED - CEILING UNIT	PEFY-P12NMAU-E3	200/1	1.2	15	49	34	9-1/8" x 21-9/16" x 28-1/8"														

* SELECTIONS BASED ON MITSUBISHI ELECTRIC. CONTACT MALCOLM SIGELBAUM - 718 263 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 TUNNING KIT IS REQUIRED MODEL: CMY-T100CBK3

SPLIT AIR HANDLER UNIT SCHEDULE																														
INDOOR UNIT														OUTDOOR UNIT																
AHU NO.	LOCATION	NOMINAL TONNAGE	COOLING CAPACITY (BTUH)	CFM	ESP	HOT WATER COIL							MANUF.	MODEL	UNIT ELECTRICAL CHAR.			AIR HANDLER WEIGHT (LBS)	PHYSICAL DIMENSIONS HxWxD (in.)	COND. UNIT	# OF COMP.	MANUF.	MODEL*	COND. UNIT ELEC.			COND. UNIT WEIGHT (LBS)	PHYSICAL DIMENSIONS HxWxD (in.)	REF.	EFF. (COOL.)
						EAT DB (°F)	LAT DB (°F)	TH (MBH)	EWT (°F)	LWT (°F)	FLOW (GPM)	PD (FT)			VOLTS-PHASE	MCA	MOCP							VOLTS-PHASE	MCA	MFA				
AHU-1	THEATER 110	12	149,080	3375	1.75	45.5	97.0	196.8	160	139.9	20	22	AAON	V3-DRB-8-0-162C-12L	200 - 3 PH	11.0	15	750	13-1/8 X 56-1/8 X 34-1/4	ACCU-1	2	AAON	CFA-013-B-A-8-DC00K	200 - 3 PH	55	70	1154	51x94x46-3/1	R-410A	103
AHU-2	THEATER 110	12	149,080	3375	1.75	45.5	97.0	196.8	160	139.9	20	22	AAON	V3-DRB-8-0-162C-12L	200 - 3 PH	11.0	15	750	13-1/8 X 56-1/8 X 34-1/4	ACCU-1	2	AAON	CFA-013-B-A-8-DC00K	200 - 3 PH	55	70	1154	51x94x46-3/1	R-410A	103
AHU-3	LOBBY FOYER 103	4	49,410	1400	0.6	42.5	94.8	83.3	160	131	7.4	0.4	AAON	H3-BRB-8-0-161C-12N	200 - 3 PH	4.0	15	596	22-1/8 X 51 X 42-3/8	ACCU-1	1	AAON	CFA-004-A-A-8-DC00H	200 - 3 PH	23	35	454	56-1/4x61-1/2x29-1/4	R-410A	120
AHU-4	LOBBY FOYER 203	4	49,410	1400	0.6	42.5	94.8	83.3	160	131	7.4	0.4	AAON	H3-BRB-8-0-161C-12N	200 - 3 PH	4.0	15	596	22-1/8 X 51 X 42-3/8	ACCU-1	1	AAON	CFA-004-A-A-8-DC00H	200 - 3 PH	23	35	454	56-1/4x61-1/2x29-1/4	R-410A	120

SELECTIONS BASED ON AAON. CONTACT PAUL JOHNSTON (GIL-BAR) - 212 331 8212
REFER TO MANUFACTURER'S INSTALLATION GUIDELINES FOR MORE INFORMATION
PROVIDE MANUFACTURER SUPPLIED ULTRAVIOLET LIGHT PURIFICATION PACKAGE

IT ROOM SPLIT AIR CONDITIONING UNIT SCHEDULE																												
INDOOR UNIT															OUTDOOR UNIT													
AHU NO.	LOCATION	NOMINAL TONNAGE	COOLING CAPACITY (BTUH)	CFM		ESP	MANUF.	TYPE	MODEL	UNIT ELECTRICAL CHAR			AIR HANDLER WEIGHT (LBS)	SOUND PRESSURE (H/M/L)	PHYSICAL DIMENSIONS HxWxD (in.)	COND. UNIT	LOCATION	MANUF.	MODEL*	COOLING CAPACITY (BTUH)	COND. UNIT ELEC.			SOUND PRESSURE dB(A)	COND. UNIT WEIGHT (LBS)	PHYSICAL DIMENSIONS HxWxD (in.)	REF.	EFF. (COOL.)
				MAX	MIN					VOLTS-PHASE	MCA	MOCP									VOLTS-PHASE	MCA	MFA					
AC-IT	IT ROOM	3	34600	881	389	-	mitsubishi electric	WALL MOUNTED CASSETTE	MSY-D36NA	208 - 1 PH	1	15A	40	51/42/32	14-3/8x46-1/16x11-5/8	ACCU-IT	ROOF	mitsubishi electric	MUY-D36NA	34600	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 - 718 263 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

SPLIT COOLING COIL SCHEDULE															
INDOOR EVAPORATOR SECTION					OUTDOOR CONDENSER SECTION						NOMINAL COOLING CAPACITY	MANUFACTURER	EER	SEER	
CC DESIGN	SERVICE	LOCATION	MODEL NUMBER	PHYSICAL DIMENSIONS LxWxH	ACCU DESIGN	MODEL NUMBER	ELECTRICAL (VOLT/HZ/PHASE)	MCA	MOP	PHYSICAL DIMENSIONS LxWxH					WEIGHT (LBS)
CC-1	EAST VERNI	MECH CL 155	4FXACU48	21-1/8"x19-3/4"x24-1/8"	ACCU-1	4TTA4048	208/60/3	18	30	31-1/4"x34-1/4"x29-1/8"	109	4 TONS	TRANE	12.5	15.0
CC-2	NORTH VERNI	MECH RM 162	4FXACU48	21-1/8"x19-3/4"x24-1/8"	ACCU-8	4TTA4048	208/60/3	18	30	31-1/4"x34-1/4"x29-1/8"	109	4 TONS	TRANE	12.5	15.0
CC-3	SOUTH VERNI	MECH RM 162	4FXCCU60	21"x21-1/2"x30-11/16"	ACCU-9	4TTA3060	208/60/3	21	35	31-1/4"x34-1/4"x31-1/4"	226	5 TONS	TRANE	11.5	13.5

CONDENSING FURNACE SCHEDULE														
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
FURN-1	EAST VERNI	MECH CL 155	TRANE	88X2B080	52/416	80/64	80%	50.15°F	1600	3/4	120/60/1	15 A	129	29"x18"x34"
FURN-2	NORTH VERNI	MECH RM 162	TRANE	88X2B080	52/416	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	88X2B080	52/416	80/64	80%	50.15°F	2000	3/4	120/60/1	15 A	129	29"x18"x34"

ENERGY RECOVERY UNIT																							
UNIT NO.	SERVICE	LOCATION	FRESH AIR FLOW (CFM)	FRESH AIR FLOW ESP (IN WC)	SPACE EXHAUST AIR FLOW (CFM)	SPACE EXHAUST FLOW ESP (IN WC)	WINTER OPERATION			SUMMER OPERATION			UNIT ELECTRICAL CHAR				PHYSICAL SIZE				MANUFACT.	MODEL*	Filtration
							ROOM AIR (°F)	TOTAL EFFECTIVENESS	OUTSIDE AIR (°F)	ROOM AIR (°F)	TOTAL EFFECTIVENESS	OUTSIDE AIR (°F)	VOLTS-PHASE	HP	MCA	MOCP	LENGTH	WIDTH	HEIGHT	MAX WEIGHT (LBS)			
ERV-1	1ST FLR	ROOF	1500	10	1333	10	70	66.0%	13.9	75	50.3%	92.4	208/3/60	2 • 15	10.8	15	81.5"	43.4"	43.9"	689	RENEWAIRE	HE-2XJRTV-935UU	FRESH AIR = MERV 8 EXHAUST AIR = MERV 8
ERV-2	2ND FLR	ROOF	1500	0.75	1324	0.5	70	66.0%	13.9	75	50.3%	92.4	208/3/60	2 • 15	10.8	15	81.5"	43.4"	43.9"	689	RENEWAIRE	HE-2XJRTV-935UU	FRESH AIR = MERV 8 EXHAUST AIR = MERV 8

- SELECTION BASED ON 'RENEW AIRE' MANUFACTURER CONTACT DANIEL BREIT - HIGHMARK

• STANDARD FEATURES: NON-FUSED DISCONNECT, 24 VAC TRANSFORMER/RELAY PACKAGE

• PROVIDE TWO (2) ADDITIONAL MERV 8 FILTERS
- PROVIDE BACKDRAFT DAMPER

• PROVIDE PAINTABLE 6" LOUVERED WALL VENT

• PROVIDE TEMPERATURE SENSOR - DUCT MOUNT (DS-600)
- PROVIDE DIGITAL TIME CLOCK (TCTD)

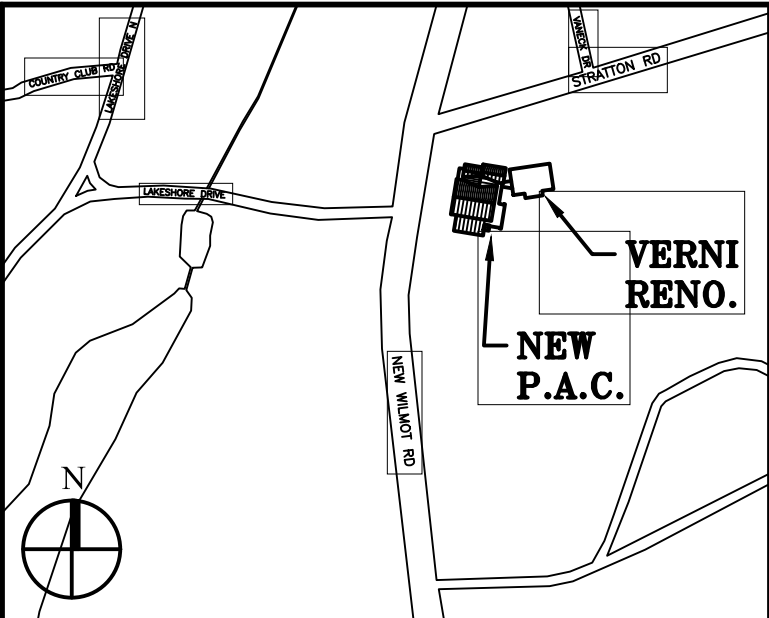
CONDENSING BOILER SCHEDULE													OPERATING SUPPLY WATER TEMPERATURE: 160°F					
UNIT NO.	LOCATION	BOILER INPUT (BTUH) MAX/MIN	THERMAL EFFICIENCY AFUE	BOILER OUTPUT (BTUH) MAX	MANUFACTURER	MODEL NO.	OPERATING WEIGHT (LBS)	DIMENSIONS (W X D X H)	VENT DIAMETER	PIPE CONNECTION SIZING			GAS CONNECTION SIZE	COMBUSTION AIR SIZE	FLOW MIN/MAX (GPM)	HEX WATER VOLUME (GAL.)	RELIEF VALVE PRESSURE RATING	MAX WORKING PRESSURE
										HUB/IN	BOILER DRAIN	CONDENSATE CONNECTION						
B-1	MECH RM	500,000/ 50,000	91.1%	489,000	LOCHINVAR	FTX500N	460	26¼"x21½"x53½"	4" DIA	2" DIA	1" DIA	1" DIA	1" DIA	4" DIA	10/105	3.5	50 PSi	160 PSi
B-2	MECH RM	500,000/ 50,000	91.1%	489,000	LOCHINVAR	FTX500N	460	26¼"x21½"x53½"	4" DIA	2" DIA	1" DIA	1" DIA	1" DIA	4" DIA	10/105	3.5	50 PSi	160 PSi

PROVIDE ALL NECESSARY CONTROLS FOR BOILER OPERATION INCLUDING RESET CONTROLS, ALL SAFETIES, PUMP CONTROLS, ETC.

CIRCULATOR PUMP SCHEDULE											
PUMP NO.	LOCATION	DUTY	MODEL	MFR	TYPE	WATER TEMP. (°F)	GPM	HEAD (FT.H ₂ O)	RFM	MOTOR HP	ELEC.CHAR (VOLTS-PHASE)
BP-1	MECH. RM.	BOILER CIRCULATOR	ECOCIRC XL 20-140	B4G	CIRCULATOR	140	100 (MAX)	10	□	1/2	208/1/60
BP-2	MECH. RM.	BOILER CIRCULATOR	ECOCIRC XL 20-140	B4G	CIRCULATOR	140	100 (MAX)	10	□	1/2	208/1/60
CP-1	MECH. RM.	AIR HANDLER HEATING LOOP	ECOCIRC XL 65-130	B4G	CIRCULATOR	140	55	25	□	1	208/1/60
CP-2	MECH. RM.	RADIATOR HEATING LOOP	ECOCIRC XL 65-130	B4G	CIRCULATOR	140	40	35	□	1	208/1/60

RADIATOR SCHEDULE								
DESIGNATION	BTUH	SECTIONS	WATER TEMP	WIDTH	HEIGHT	LENGTH	MANUFACTURER	TYPE
RAD-A	550/FT	SEE PLANS	160°F	3 1/8"	10 3/4"	SEE PLANS	VULCAN	LC-209
RAD-B	500	19	160°F	5 3/8"	8"	63"	JAGA	MINI FREESTANDING (TYPE II)
RAD-C	886	6	160°F	5 3/8"	8"	94 1/2"	JAGA	MINI FREESTANDING (TYPE II)

EXPANSION TANK SCHEDULE											
UNIT DES.	SERVICE	FLUID	TOTAL SYSTEM VOLUME (GAL.)	TANK TOTAL VOL. (GAL.)	TANK ACCEPTANCE (GAL.)	DIMENSIONS		WATER LOGGED WEIGHT (LBS)	MODEL	MANUFACTURER	REMARKS
						HEIGHT (IN")	DIA (IN")				
ET-1	HOT WATER HEATING SYSTEM	WATER	70	10.9	2.4	26-1/2"	12"	136	D-20V	BELL & GOSSETT	DIAPHRAGM-TYPE TYPICAL FOR 1



Key Plan (not to scale)

11.	6/23/2021	BID ADDENDUM 5
10.	6/16/2021	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.	6/07/2021	RE-ISSUED FOR BUILDING PERMIT REVIEW
5.	2/01/2021	ISSUED FOR BUILDING PERMIT REVIEW
4.	10/14/2020	ISSUED FOR PLANNING BOARD REVIEW
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/Submittal
STRUCTURAL & SITE CIVIL ENGINEER		
DOMINICK R PILLA ASSOCIATES, P.C. 143 MAIN STREET NYACK, NY 10960 845-727-7793		
MEP ENGINEER		ROOFING CONSULTANT
JMY CONSULTING ENGINEERING, P.C. 37 W. 59 STREET, STE 703 NEW YORK, NY 10019 212-862-9855		WATSKY ASSOCIATES 20 MADISON AVENUE VALHALLA, NY 10986 914-945-3450

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

MECHANICAL SCHEDULES II

Scale Job No. Date Drawing No.
NTS 20-2723 04/03/2019 M-602

Peter Gisolfi Associates
Architects Landscape Architects, LLP
566 Warburton Avenue
Hastings on Hudson, NY 10706
914 478 3677
PETER GISOLFI ASSOCIATES

FAN SCHEDULE											
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	250	0.5"	115-1-60	1/20	ROOF MOUNTED	1550	G-080-DG	GREENHECK	19.4x19.4x12.1	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	250	0.5"	115-1-60	1/20	ROOF MOUNTED	1550	G-080-DG	GREENHECK	19.4x19.4x12.1	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	0.4"	115-1-60	1/6	ROOF MOUNTED	1550	G-090-VG	GREENHECK	21.75x21.75x14.6	PROVIDE LOCAL SWITCH IN SCENE SHOP AND ART STUDIO. PROVIDE VARIGREEN DIAL CONTROL.
OAF-1	SCENE SHOP 122/ ART STUDIO 222	500	0.4"	115-1-60	1/6	IN-LINE	1550	8Q-95-VG	GREENHECK	15X16X15	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	25X28X25	□
SAF-2	LOBBY FOYER 203	1400	0.5"	115-1-60	1/3	ROOF MOUNTED	1480	CUE-121	GREENHECK	25X28X25	□
RAF-1	FURN-1	1600	0.25"	115-1-60	□	IN-LINE	1325	C8P-A1B0	GREENHECK	35X15X15	INTERLOCK RAF WITH UNIT SUPPLY FAN. PROVIDE DIAL SPEED CONTROL.
RAF-2	FURN-2	1600	0.25"	115-1-60	□	IN-LINE	1325	C8P-A1B0	GREENHECK	35X15X15	INTERLOCK RAF WITH UNIT SUPPLY FAN. PROVIDE DIAL SPEED CONTROL.
RAF-3	FURN-3	2000	0.25"	115-1-60	□	IN-LINE	1790	C8P-A2B0	GREENHECK	35X15X15	INTERLOCK RAF WITH UNIT SUPPLY FAN. PROVIDE DIAL SPEED CONTROL.

CEILING DIFFUSER SCHEDULE							
DESIGNATION	NOMINAL SIZE	MODEL	NECK SIZE	CFM RANGE	MAX. THROW	MAX. NC	REMARKS
CD-A	12x12	OMNI	8"	0-244	16	11	SQUARE CEILING DIFFUSER
CD-B	24x24	OMNI	8"	0-244	10	12	SQUARE CEILING DIFFUSER
CD-C	24x24	OMNI	10"	245-400	13	11	SQUARE CEILING DIFFUSER
CD-D	22.5"D	R-OMNI	10"	0-400	13	20	CIRCULAR CEILING DIFFUSER

SELECTIONS ARE BASED ON "TITUS" MANUFACTURER

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: 10 R: 42	SEE PLAN	SEE PLAN	VARIES	20	20	WALL/CEILING	22	FL-10 JT	PROVIDE 1" LINED PLENUM BOX
FBJ-1B	SUPPLY / RETURN	1.5"	1	5: 120 R: 63	SEE PLAN	SEE PLAN	VARIES	22	26	WALL/CEILING	22	FL-15 JT	PROVIDE 1" LINED PLENUM BOX
FBJ-2	SUPPLY / RETURN	2"	1	5: 195 R: 84	SEE PLAN	SEE PLAN	VARIES	29	34	WALL	22	FL-20 JT	PROVIDE 1" LINED PLENUM BOX
FBH-1	SUPPLY / RETURN	1"	1	5: 55 R: N/A	SEE PLAN	SEE PLAN	VARIES	26	21	CEILING	22	FL-10 HT	PROVIDE 1" LINED PLENUM BOX
FBH-1B	SUPPLY / RETURN	1.5"	1	5: 60 R: N/A	SEE PLAN	SEE PLAN	VARIES	31	25	CEILING	22	FL-15 HT	PROVIDE 1" LINED PLENUM BOX
FBH-2	SUPPLY / RETURN	2"	1	5: 15 R: N/A	SEE PLAN	SEE PLAN	VARIES	33	21	CEILING	22	FL-20 HT	PROVIDE 1" 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 FLOWBAR (ACCESSORY MODEL * FBB0 BLANK-OFF)

-PROVIDE INSULATED 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	LOCATION	HEATER TYPE	KW	ELEC.CHAR (VOLTS-PH)	SERIES	MODEL	MANUFACTURER
ECH-1	MECHANICAL ROOM	FAN FORCED WALL HEATER	3	208-1	AUFA	AUFA3008	STELPRO
ECH-2	STORAGE	FAN FORCED WALL HEATER	3	208-1	AUFA	AUFA3008	STELPRO
ECH-3	STORAGE	FAN FORCED WALL HEATER	3	208-1	AUFA	AUFA3008	STELPRO
ECH-4	STAIR 1-B	FAN FORCED WALL HEATER	3	208-1	AUFA	AUFA3008	STELPRO
ECH-5	MECHANICAL ROOM	FAN FORCED WALL HEATER	3	208-1	AUFA	AUFA3008	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

SINGLE DEFLECTION RETURN/EXHAUST REGISTER SCHEDULE					
DESIGNATION	CFM	SIZE	NC	MODEL	REMARKS
RR-A	0-2250	24x24	25	350RL	□
RR-B	0-810	24x12	13	350RL	□
RR-C	0-285	12x8	10	350RL	□
RR-D	0-3315	42x24	20	350RL	□

SELECTIONS ARE BASED ON "TITUS" MANUFACTURER

REGISTERS HAVE 35° DEFLECTION WITH 3/4" BLADE SPACING.

FINAL COLOR SHALL BE APPROVED BY ARCHITECT.

SINGLE DEFLECTION SUPPLY REGISTERS					
DESIGNATION	CFM	SIZE	NC	THROW	MODEL
SR-A	0-285	12x8	15	24	301RL

SELECTIONS ARE BASED ON "TITUS" MANUFACTURER.

REGISTERS ARE: DOUBLE DEFLECTION WITH 3/4" BLADE SPACING, STEEL MATERIAL, WELDED BORDER

FINAL COLOR SHALL BE APPROVED BY ARCHITECT.

ELECTRIC DUCT HEATER SCHEDULE											BASED ON 0 DEG EAT
DESIGNATION	LOCATION	CFM	DUCT SIZE	AIR VELOCITY (FPM)	DUCT HEATER CHARACTERISTICS						REMARKS
					HEATER TYPE	KW	NO. OF HEATING STAGES	ELEC.CHAR (VOLTS-PH)	SIZE	MODEL	
EDH-1	NORTH CORRIDOR 203	500	10x10	115	OPEN COIL	11	MODULATING	208-3PH	10x10	QUA	PROPORTIONAL MODULATING CONTROL

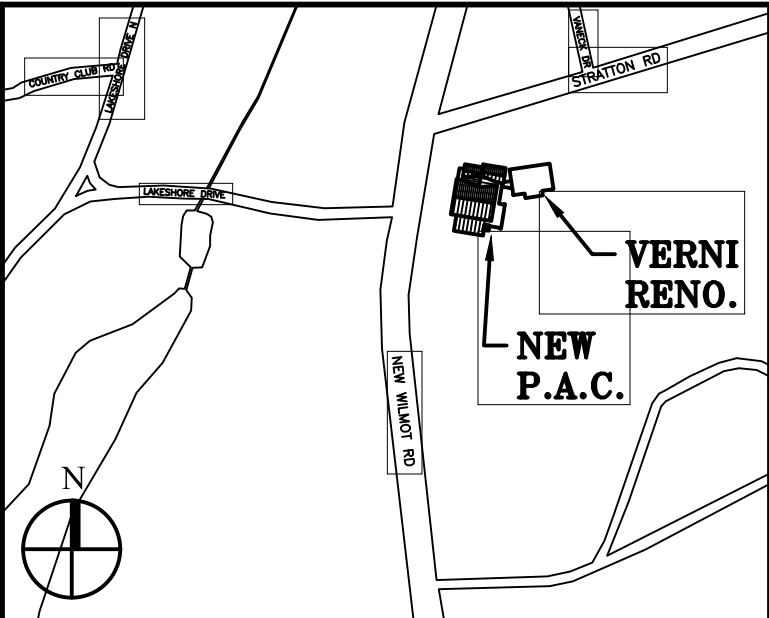
BASED ON "INDEECO" MANUFACTURER

- "IK" CONTROLS OPTION WHICH INCLUDES AUTOMATIC RESET THERMAL CUTOUTS.

- SAFETY MAGNETIC CONTACTORS, FUSES, TRANSFORMER TO SUPPLY INTERNAL CONTROL CIRCUIT AND SAFETY DISCONNECT SWITCH.

- INCLUDE AIRFLOW INTERLOCK & DUCT MOUNTED THERMOSTAT

- INCLUDE OVERTEMPERATURE PROTECTION.



Key Plan (not to scale)

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10.	6/16/2021	ISSUED FOR BUILDING PERMIT
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8.	6/09/2021	BID ADDENDUM 1
7.	6/01/2021	ISSUED FOR BID
6.	6/07/2021	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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No.	Date	Revision/Submittal
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DOMINICK R. PILLA ASSOCIATES, P.C. 143 MAIN STREET NYACK, NY 10960 845-727-7793		
MEP ENGINEER		
JMY CONSULTING ENGINEERING, P.C. 37 W. 59 STREET, STE 703 NEW YORK, NY 10019 212-662-9855		
ROOFING CONSULTANT		
WATSKY ASSOCIATES 20 MADISON AVENUE VALHALLA, NY 10986 914-945-3450		
Stamp		

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

MECHANICAL SCHEDULES III

Scale	Job No.	Date	Drawing No.
NTS	20-2723	04/03/2019	M-603
Drawn			

Peter Gisolfi Associates
Architects Landscape Architects, LLP

566 Warburton Avenue
Hastings on Hudson, NY 10706
914 478 3677

PETER GISOLFI ASSOCIATES

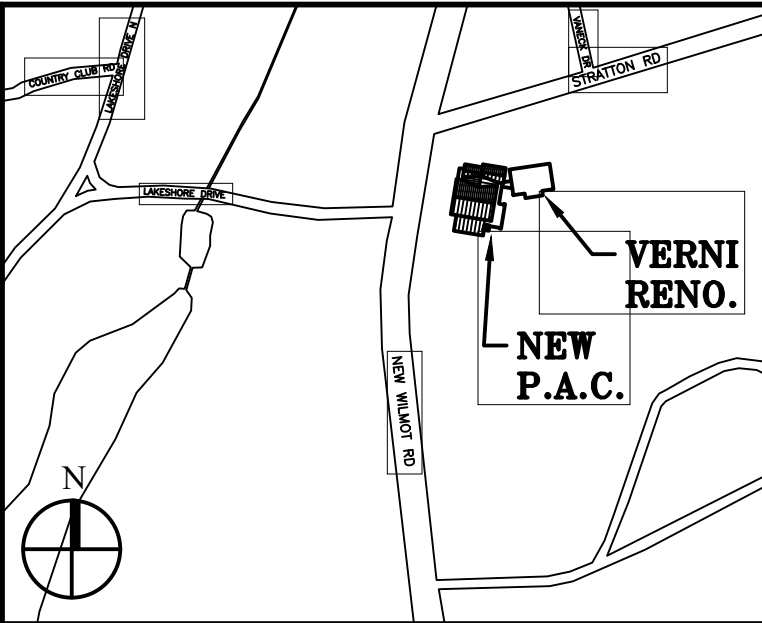
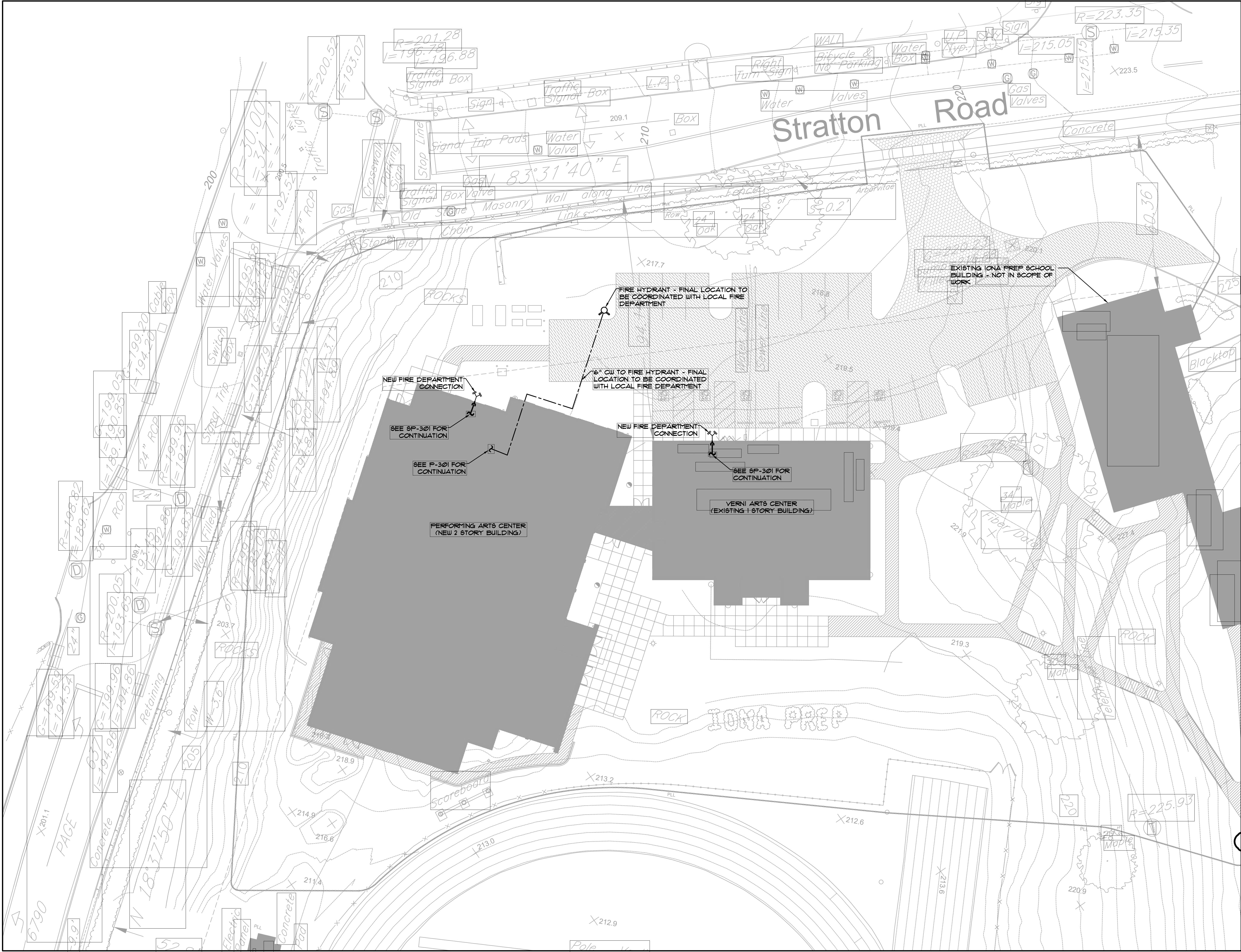
ALL GAS PIPING TO BE ELECTRICALLY BONDED
PER 2020 NYSFGC 310.1

VERNI ARTS CENTER
(EXISTING 1 STORY BUILDING)

HOSE BIBB - RECESSED
ANTI FREEZE LOCKING
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Architects Landscape Architects, LLP
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Hastings on Hudson, NY 10706
914 476 3677
PETER GISOLFI ASSOCIATES

VERNI
RENO.



Key Plan (not to scale)

11.	6/23/2021	BID ADDENDUM 5
10.	6/16/2021	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.	6/07/2021	RE-ISSUED FOR BUILDING PERMIT REVIEW
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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. 145 MAIN STREET NYACK, NY 10960 845-727-7793		
MEP ENGINEER JMV CONSULTING ENGINEERING, P.C. 37 W. 59 STREET, STE 703 NEW YORK, NY 10019 212-862-9855		
ROOFING CONSULTANT WATSKY ASSOCIATES 20 MADISON AVENUE VALHALLA, NY 10986 914-948-3450		
Stamp		

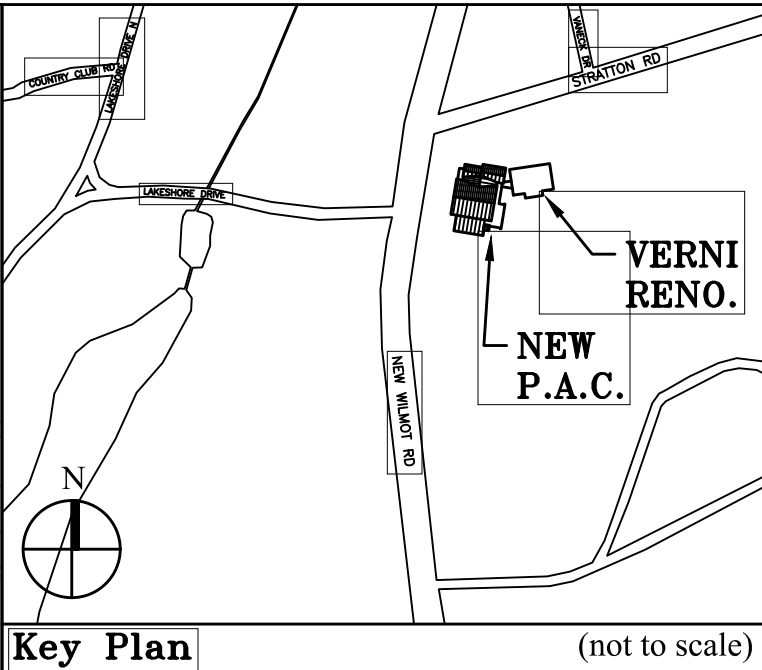
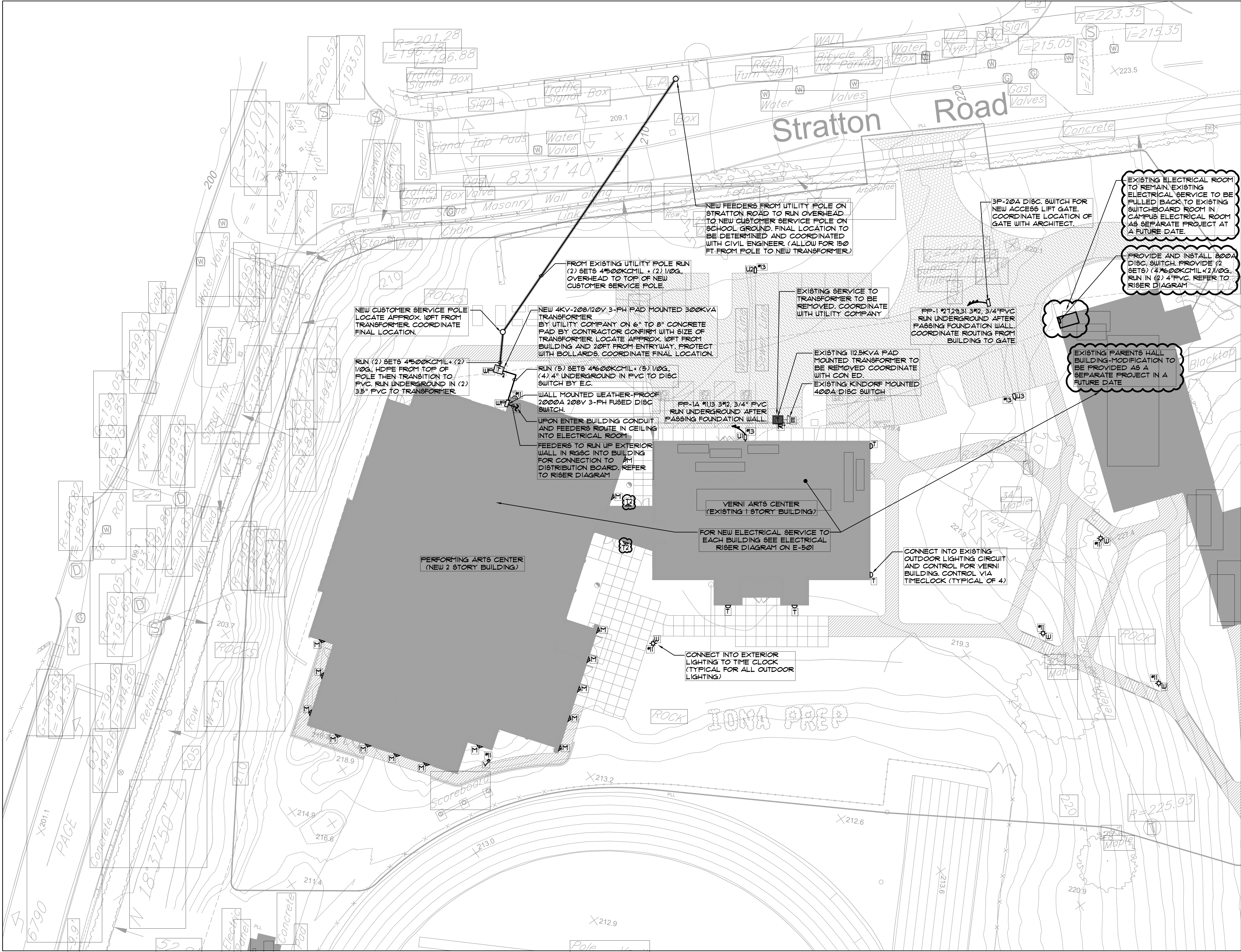
Project Title
IONA PREPARATORY SCHOOL
ADDITION AND ALTERATION TO THE
PAUL VERNI FINE ARTS CENTER

Project Address
IONA PREPARATORY SCHOOL
255 Wilmot Road
New Rochelle, NY 10804

Drawing Title
SPRINKLER SITE PLAN

Scale
1/16"=1'-0"
Job No.
20-2723
Date
04/03/2019
Drawing No.
SP-103

Peter Gisolfi Associates
Architects Landscape Architects, LLP
566 Warburton Avenue
Hastings on Hudson, NY 10706
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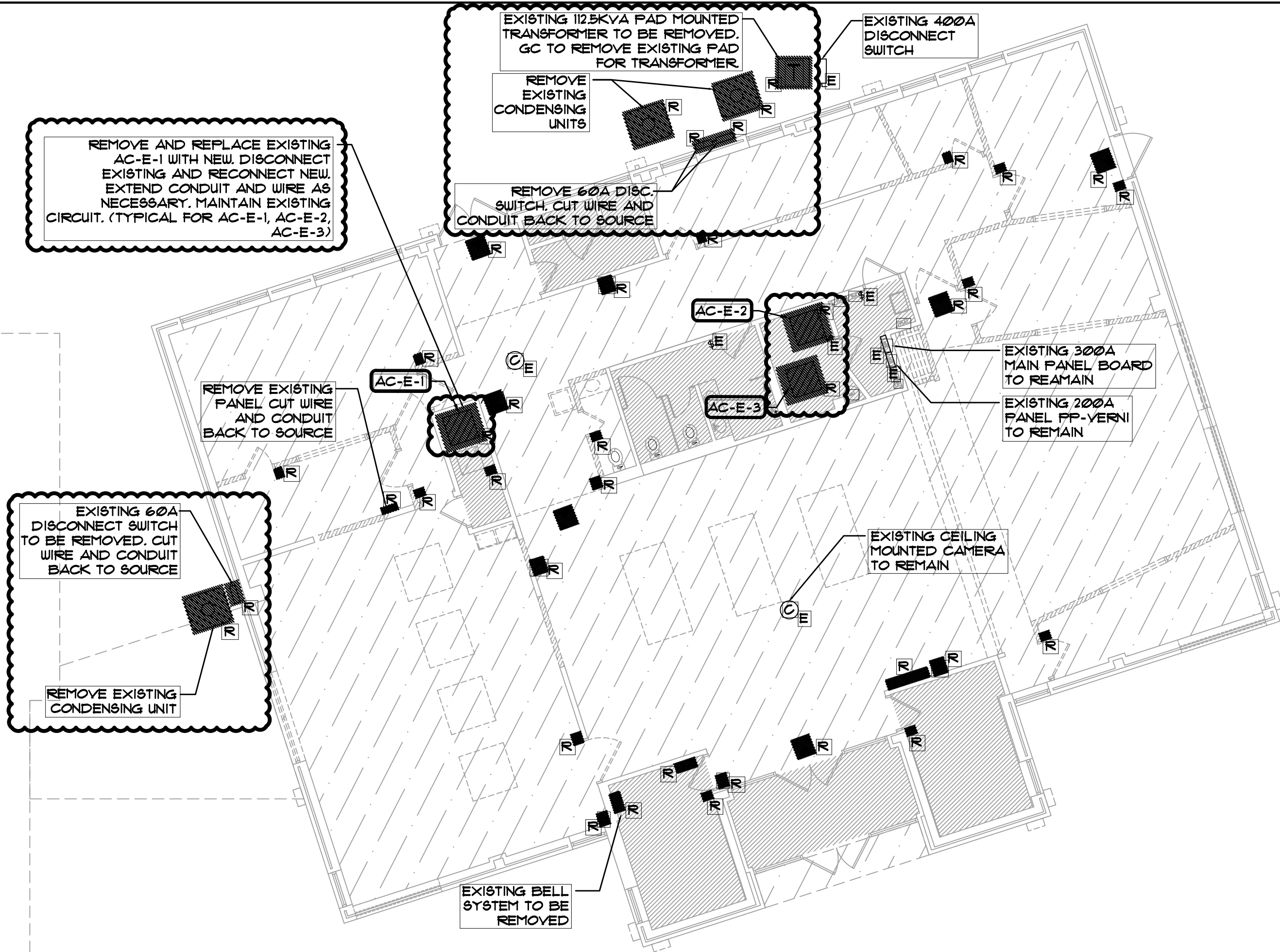
Drawing Title
ELECTRICAL SITE PLAN

Scale	Job No.	Date	Drawing No.
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Drawn

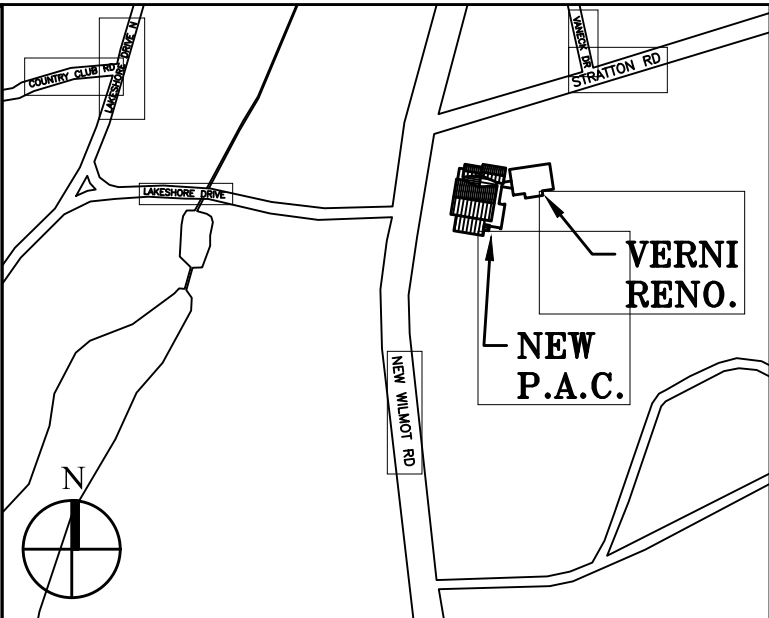
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914 478 3677

PETER GISOLFI ASSOCIATES



DEMOLITION NOTES

1. PRIOR TO SUBMISSION OF THE BID, THIS CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS TO DETERMINE THEIR IMPACT ON THE EXECUTION OF WORK IN THIS CONTRACT.
2. THE DEMOLITION WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, ANY AND ALL MATERIALS, CONNECTIONS, EXTENSIONS, CUTTING, REPAIRING & OTHER ELECTRICAL WORK, TEMPORARY OR PERMANENT, THAT MAY BE REQUIRED TO MAINTAIN SERVICE THROUGH THE COMPLETION OF THIS PROJECT. COORDINATE THE EXTENT OF THE DEMOLITION WORK WITH THE ARCHITECT.
3. EXISTING FEEDERS AND BRANCH CIRCUITING PASSING THROUGH THE AREA OF DEMOLITION AND SERVING OCCUPIED ADJACENT AREAS AND/OR INTERFERING WITH THE NEW WORK SHALL BE TRACED AND RELOCATED BY THIS CONTRACTOR. ALL NECESSARY SHUTDOWNS REQUIRED TO PERFORM THIS WORK SHALL BE COORDINATED WITH THE BUILDING MANAGEMENT.
4. WIRING, CONDUITS, AND SUPPORTS FOR FEEDERS AND BRANCH CIRCUITING SHALL BE REMOVED TO THEIR PANEL OF ORIGIN.
5. MAINTAIN THE CONTINUITY OF EXISTING BRANCH CIRCUITING SERVING REMAINING ELECTRICAL DEVICES OUTSIDE THE SCOPE OF WORK WHERE PORTIONS OF EXISTING BRANCH CIRCUITING ARE BEING REMOVED.
6. IDENTIFY AS SPARE ANY PROTECTIVE DEVICE IN EXISTING PANELS THAT ARE MADE SPARE DUE TO DEMOLITION. PANEL DIRECTORIES SHALL BE UPDATED ACCORDINGLY.
7. UNLESS OTHERWISE NOTED, REMOVE ALL POWER AND COMMUNICATIONS OUTLETS AND DEVICES COMPLETE WITH WIRING, RACEWAYS AND BACK BOXES IN AREA OF DEMOLITION.
8. ALL LIGHTING FIXTURES, SWITCHES AND ASSOCIATED WIRING & CONDUIT IN AREA OF DEMOLITION SHALL BE REMOVED UNLESS OTHERWISE NOTED.
9. EXISTING BASE BUILDING FIRE ALARM SYSTEM DEVICES ARE TO REMAIN & KEPT OPERATIONAL DURING ALL STAGES OF THE PROJECT. ALL DEVICES SHALL BE PROPERLY PROTECTED.



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JMV CONSULTING ENGINEERING, P.C. 37 W. 39 STREET, STE 703 NEW YORK, NY 10018 212-862-9855		
ROOFING CONSULTANT		
WATSKY ASSOCIATES 20 MADISON AVENUE VALHALLA, NY 10595 914-948-3450		

Stamp

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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

Drawing Title
FIRST FLOOR ELECTRICAL
DEMOLITION PLAN

Scale
1/8"=1'-0"

Job No.
20-2723

Date
04/03/2019

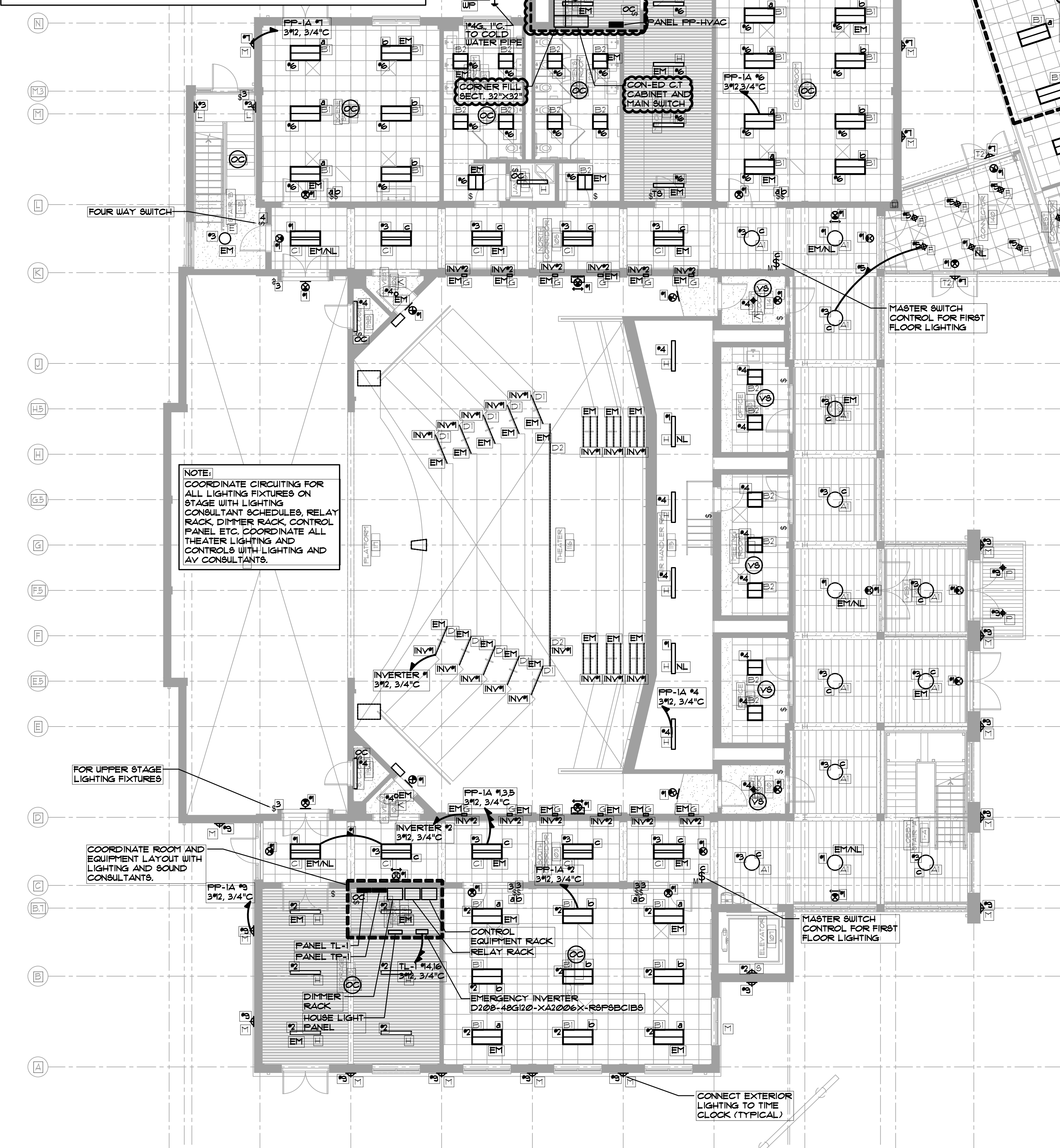
Drawing No.
E-201

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914 478 3677

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LIGHTING PLAN NOTES:

1. NEW LIGHT FIXTURES TO BE INSTALLED IN ROOMS. CONNECT TO EXISTING LIGHTING CIRCUIT. PROVIDE NEW SWITCH CONTROL AS SHOWN ON PLAN. CONTRACTOR TO TRACE AND FIELD VERIFY EXISTING CIRCUIT AND PANEL.
2. NEW LIGHT FIXTURES IN HALLWAY TO BE INSTALLED. CONNECT INTO EXISTING HALL LIGHT CIRCUIT. CONTRACTOR TO TRACE AND FIELD VERIFY EXISTING CIRCUIT AND PANEL.
3. LIGHT FIXTURES LABELED EM TO BE PROVIDED WITH AN INTEGRAL BATTERY BACKUP PACK. CONTRACTOR TO TRACE AND FIELD VERIFY EXISTING CIRCUIT AND PANEL.
4. FIXTURES LABEL EM/NL SHALL BE CONNECTED INTO EXISTING EXIT LIGHT CIRCUIT. CONTRACTOR TO TRACE AND FIELD VERIFY CIRCUIT AND PANEL.
5. NEW EXIT LIGHT. CONNECT INTO EXISTING EXIT LIGHT CIRCUIT. CONTRACTOR TO TRACE AND FIELD VERIFY CIRCUIT AND PANEL.
6. PROVIDE AND INSTALL NEW OCCUPANCY SENSOR.
7. PROVIDE AND INSTALL NEW VACANCY SENSOR.

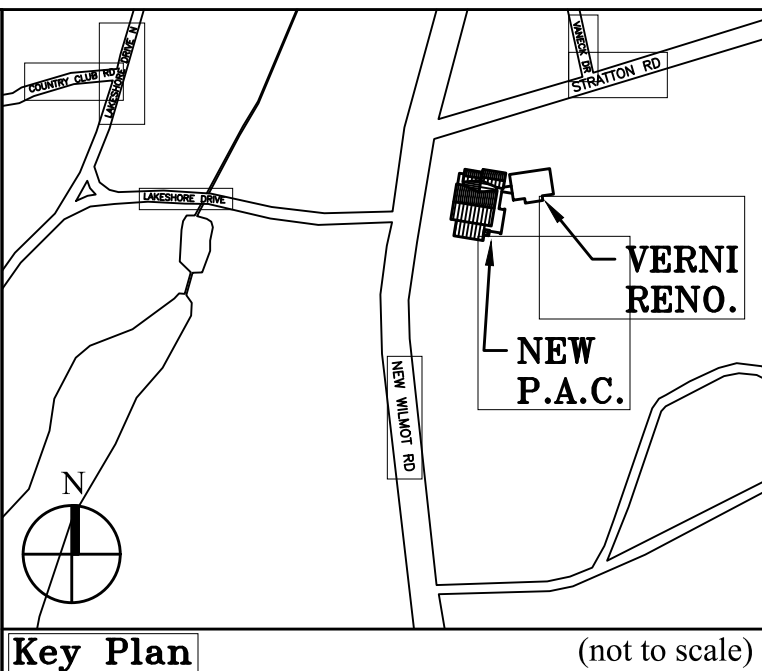


LIGHTING FIXTURE NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION, QUANTITIES, TYPES, AND MOUNTING HEIGHTS OF LIGHT FIXTURES, EXIT SIGNS, SWITCHES, DIMMERS, ETC.
2. PRIOR TO ORDERING LIGHTING FIXTURES, COORDINATE WITH ARCHITECTURAL AND ENGINEERING INFORMATION. OBTAIN CLARIFICATION OF ANY QUESTIONS PRIOR TO PROCEEDING.
3. ALL SWITCH TYPES AND FINISH TO BE COORDINATE WITH ARCHITECT AND LIGHTING CONSULTANT.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL NEW LIGHT FIXTURES AS INDICATED AND INSTALL NEW SWITCHES, DIMMERS, ETC. FOR CONTROL OF LIGHT FIXTURES AS SHOWN ON ARCHITECTURAL DRAWINGS. VERIFY AND COORDINATE SWITCHING CONTROL WITH ARCHITECT AND LIGHTING CONSULTANT.
5. LIGHTING FIXTURES SHALL BE CIRCUITED IN ACCORDANCE WITH CIRCUIT NUMBER INDICATED ADJACENT TO EACH LIGHTING FIXTURE. CONTRACTOR SHALL ADJUST ACCORDINGLY IN THE FIELD TO BALANCE THE CIRCUITRY EVENLY ON ALL PHASES ON EACH PANEL. FINAL CIRCUIT NUMBERS AND ARRANGEMENT MUST BE INDICATED ON AS-BUILT DRAWINGS AS PER SPECIFICATIONS.
6. ALL LIGHTING BRANCH CIRCUITS SERVING DIMMABLE FIXTURES SHALL HAVE SEPARATE NEUTRAL CONDUCTORS.
7. SEPARATELY MOUNTED OUTLET BOXES AND FLEXIBLE CONDUIT PIGTAIL CONNECTIONS SHALL BE PROVIDED FOR LIGHTING FIXTURES RECESSED IN HUNG CEILINGS. IN ACCESSIBLE TILE HUNG CEILING AREAS, A SINGLE OUTLET BOX MAY SERVE UP TO A MAXIMUM OF FOUR (4) LIGHTING FIXTURES USING FLEXIBLE CONDUIT PIGTAIL CONNECTIONS WITH A MAXIMUM LENGTH OF 6'-0\"/>

DE-DUCT ALTERNATE:

CONTRACTOR SHALL PROVIDE DE-DUCT ALTERNATE PRICE FOR RENOVATING THE LIGHTING SHOWN IN THE ROOM AREAS DASHED OUT. PROVIDE AND INSTALL NEW LIGHT FIXTURES, SWITCH & SENSOR CONTROLS. NEW LIGHT FIXTURES SHALL CONNECT INTO EXISTING 120V CIRCUITS SERVING THESE AREAS. CONTRACTOR TO TRACE AND FIELD VERIFY EXISTING CIRCUIT(S) AND PANEL DESIGNATION. FINAL LOCATIONS FOR LIGHT FIXTURES AND SWITCH CONTROLS AS DIRECTED BY ARCHITECT.



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ENGINEERING, P.C.		
37 W. 59 STREET, STE 703		
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212-652-9855		
ROOFING CONSULTANT		
WATSKY ASSOCIATES		
20 MADISON AVENUE		
VALHALLA, NY 10986		
914-948-3450		

Project Title
IONA PREPARATORY SCHOOL
ADDITION AND ALTERATION TO THE
PAUL VERNI FINE ARTS CENTER

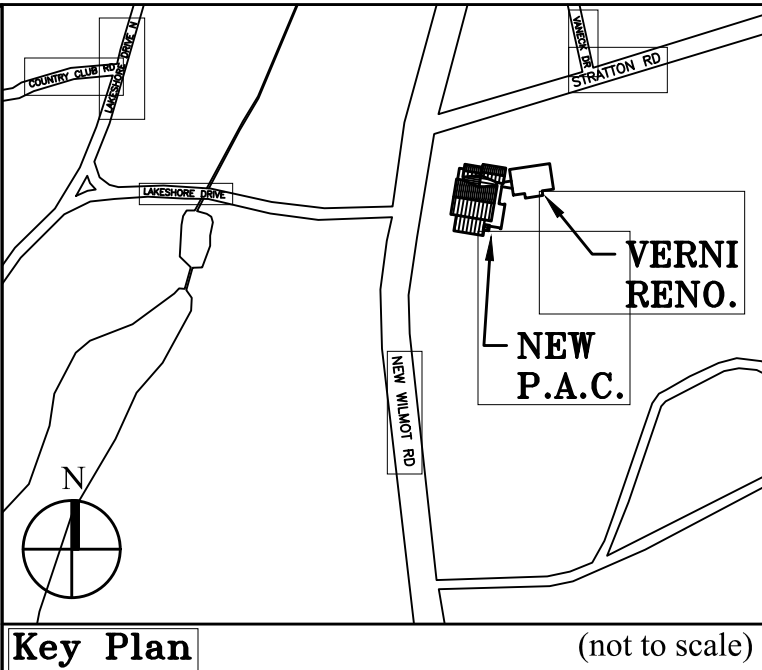
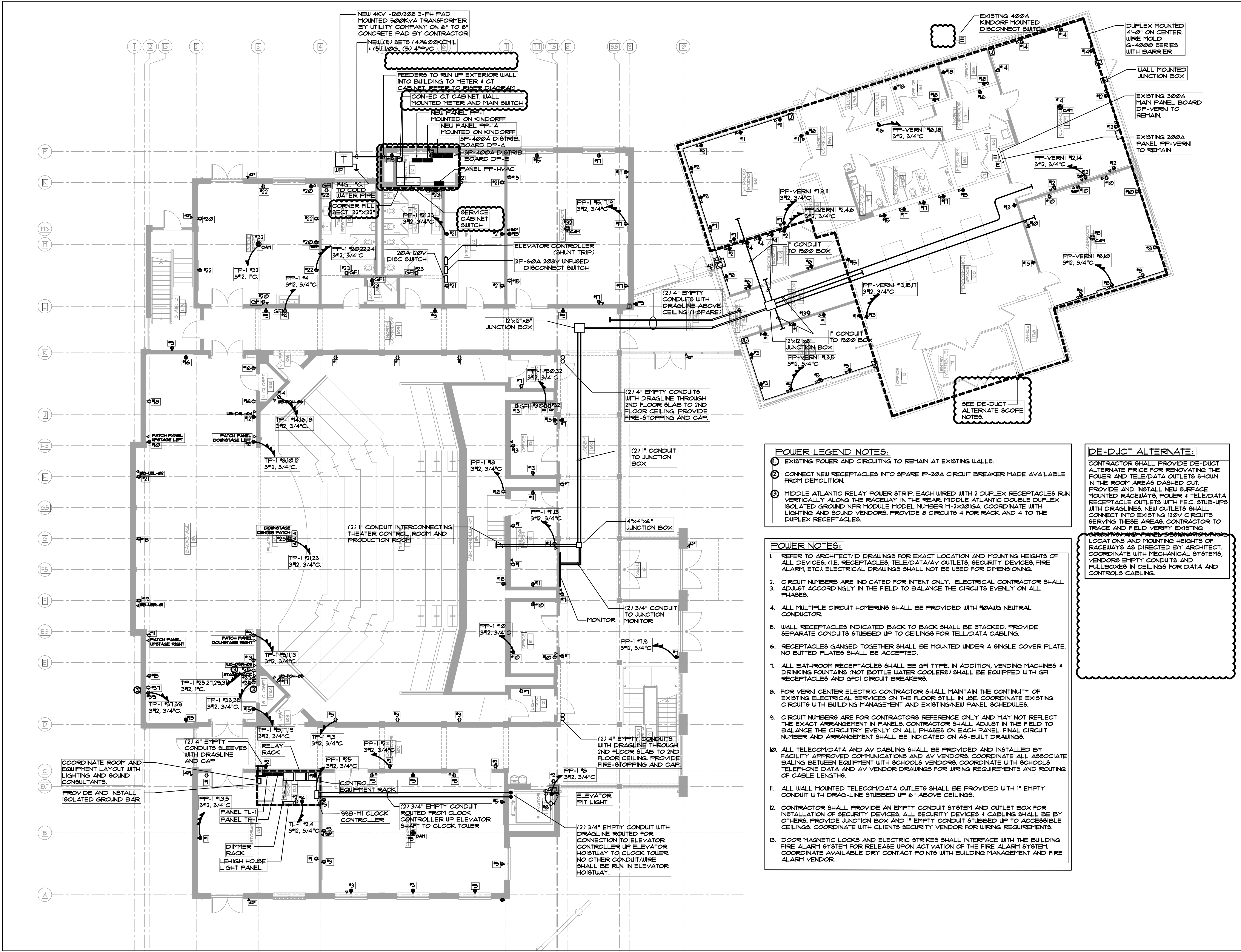
Project Address
IONA PREPARATORY SCHOOL
255 Wilnot Road
New Rochelle, NY 10804

Drawing Title
FIRST FLOOR ELECTRICAL
LIGHTING PLAN

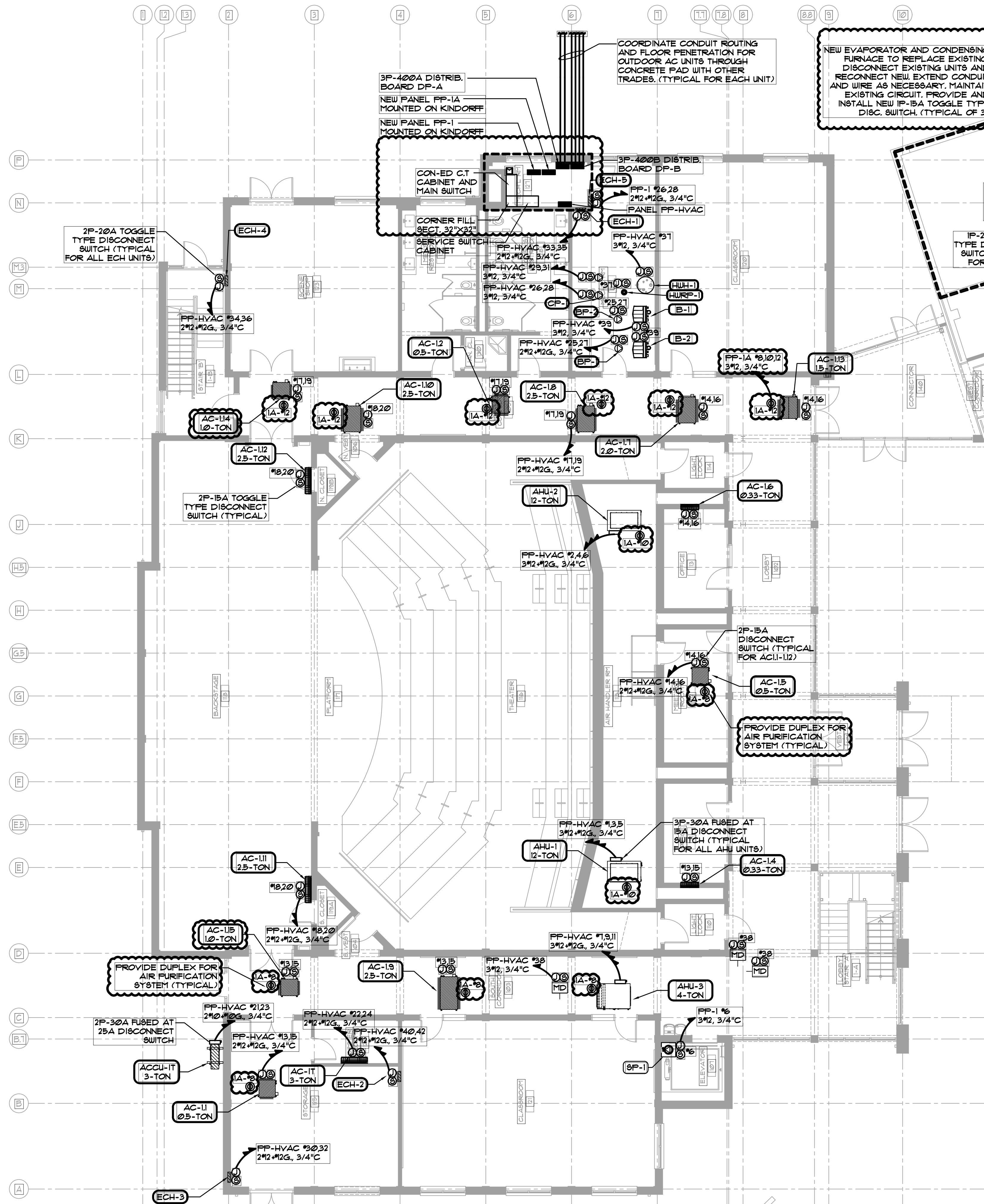
Scale Job No. Date Drawing No.
1/8"=1'-0" 20-2723 04/03/2019 E-301

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914 478 3677

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ROOFING CONSULTANT			
WATSKY ASSOCIATES 20 MADISON AVENUE VALHALLA, NY 10995 914-948-3450			
Stamp			
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 POWER PLAN			
Scale	Job No.	Date	Drawing No.
1/8"=1'-0"	20-2723	04/03/2019	E-303
Drawn			
Peter Gisolfi Associates Architects Landscape Architects, LLP 566 Warburton Avenue Hastings on Hudson, NY 10706 914 478 3677			
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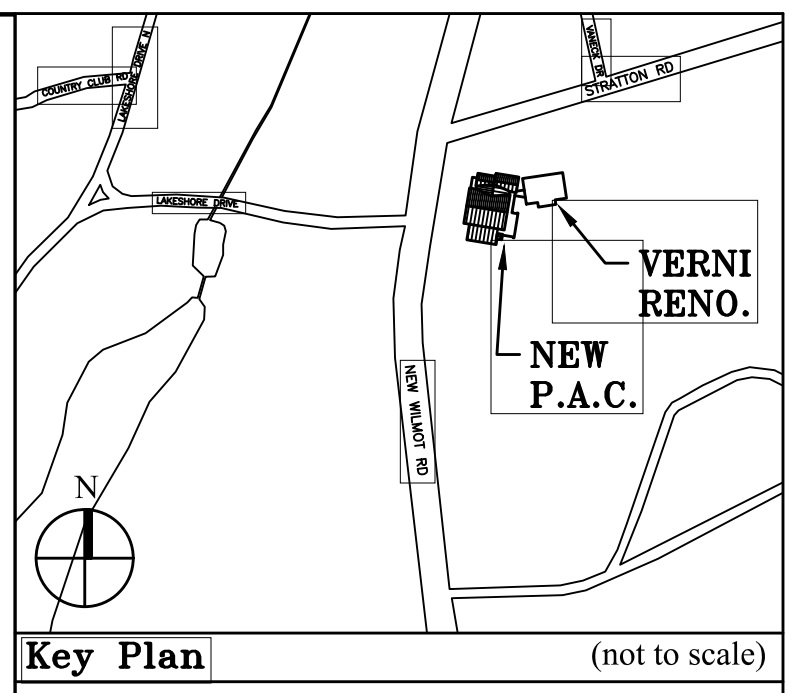
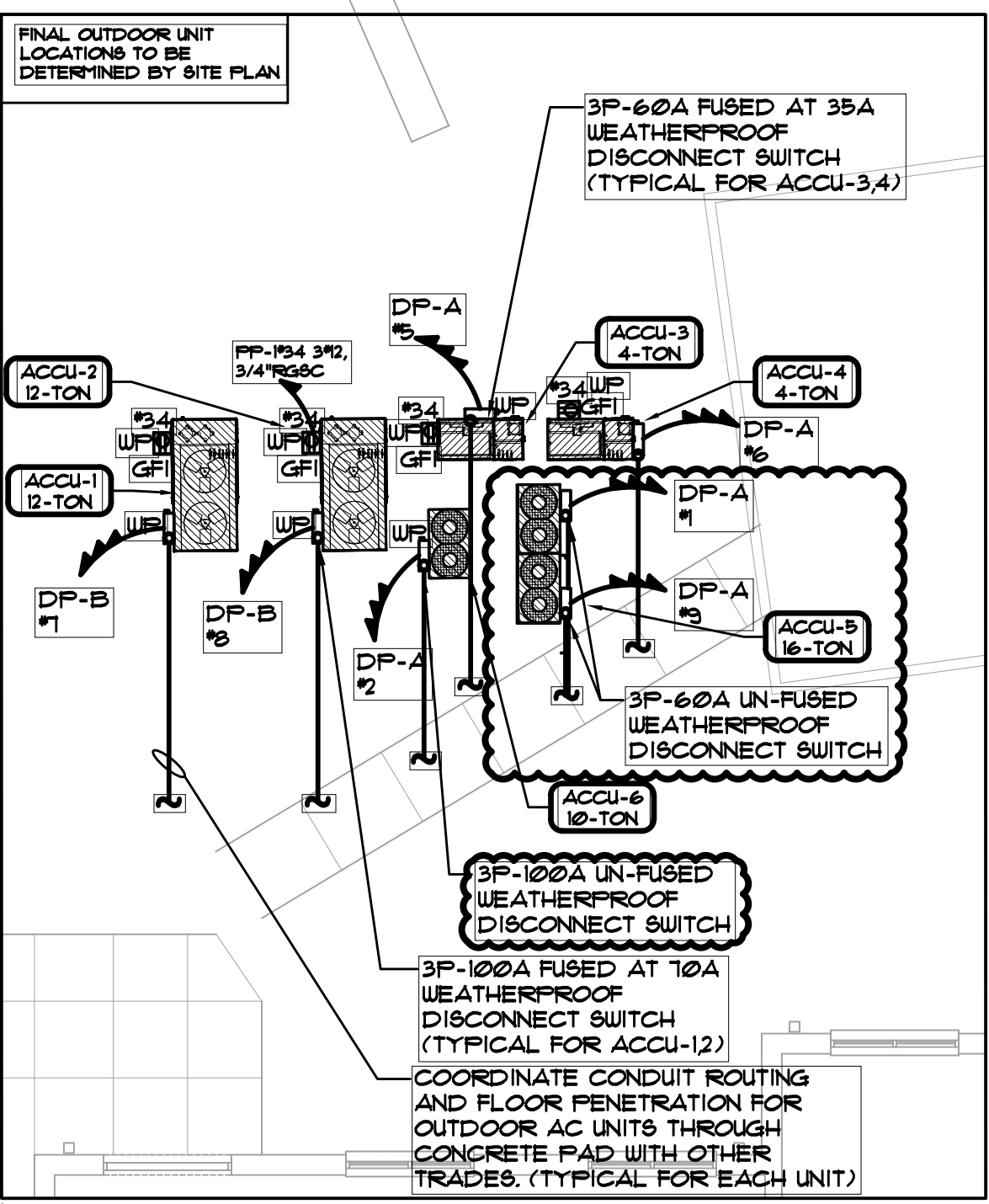
NEW EVAPORATOR AND CONDENSING FURNACE TO REPLACE EXISTING. DISCONNECT EXISTING UNITS AND RECONNECT NEW. EXTEND CONDUIT AND WIRE AS NECESSARY. MAINTAIN EXISTING CIRCUIT. PROVIDE AND INSTALL NEW IP-15A TOGGLE TYPE DISC. SWITCH. (TYPICAL OF 3)

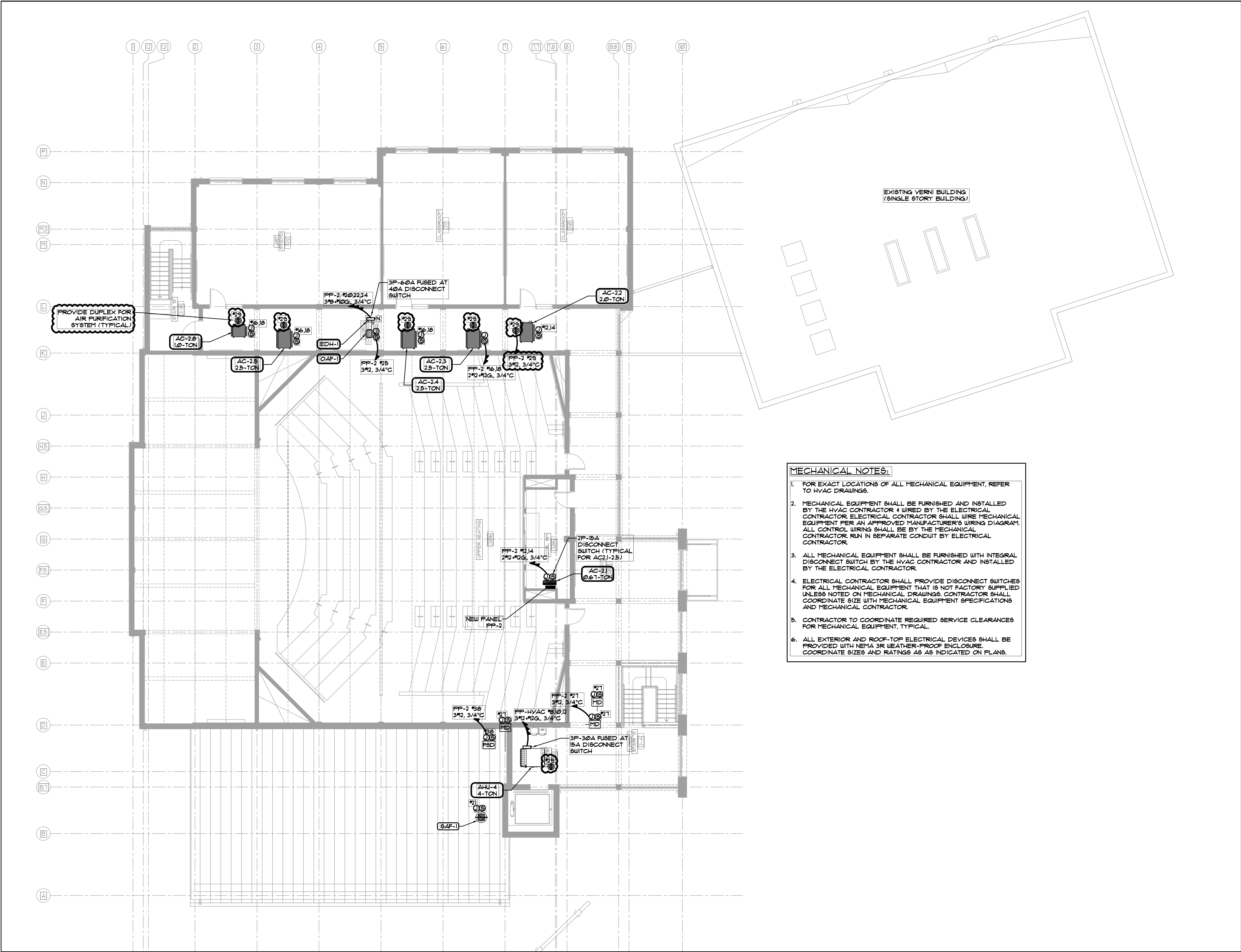
PROVIDE AND INSTALL NEW 300A WEATHERPROOF DISC. SWITCH AND WHIP TO NEW CONDENSING UNIT (TYPICAL OF 2)

PROVIDE AND INSTALL NEW 60AS/35AF WEATHERPROOF DISC. SWITCH AND WHIP TO NEW CONDENSING UNIT ACCU-9

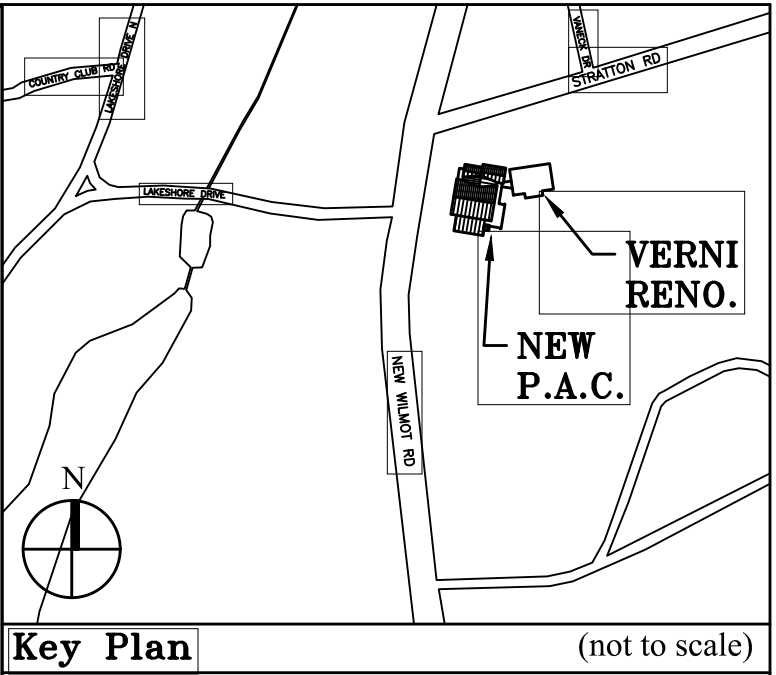
- MECHANICAL NOTES:**
- FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, REFER TO HVAC DRAWINGS.
 - MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR & WIRED BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE MECHANICAL EQUIPMENT PER AN APPROVED MANUFACTURER'S WIRING DIAGRAM. ALL CONTROL WIRING SHALL BE BY THE MECHANICAL CONTRACTOR RUN IN SEPARATE CONDUIT BY ELECTRICAL CONTRACTOR.
 - ALL MECHANICAL EQUIPMENT SHALL BE FURNISHED WITH INTEGRAL DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT THAT IS NOT FACTORY SUPPLIED UNLESS NOTED ON MECHANICAL DRAWINGS. CONTRACTOR SHALL COORDINATE SIZE WITH MECHANICAL EQUIPMENT SPECIFICATIONS AND MECHANICAL CONTRACTOR.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT THAT IS NOT FACTORY SUPPLIED UNLESS NOTED ON MECHANICAL DRAWINGS. CONTRACTOR SHALL COORDINATE SIZE WITH MECHANICAL EQUIPMENT SPECIFICATIONS AND MECHANICAL CONTRACTOR.
 - CONTRACTOR TO COORDINATE REQUIRED SERVICE CLEARANCES FOR MECHANICAL EQUIPMENT, TYPICAL.
 - ALL EXTERIOR AND ROOF-TOP ELECTRICAL DEVICES SHALL BE PROVIDED WITH NEMA 3R WEATHER-PROOF ENCLOSURE COORDINATE SIZES AND RATINGS AS INDICATED ON PLANS.

DE-DUCT ALTERNATE:
CONTRACTOR SHALL PROVIDE DE-DUCT ALTERNATE PRICE FOR RENOVATING THE MECHANICAL EQUIPMENT IN THE ROOM AREAS DASHED OUT





- MECHANICAL NOTES:**
- FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, REFER TO HVAC DRAWINGS.
 - MECHANICAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR & WIRED BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE MECHANICAL EQUIPMENT PER AN APPROVED MANUFACTURER'S WIRING DIAGRAM. ALL CONTROL WIRING SHALL BE BY THE MECHANICAL CONTRACTOR. RUN IN SEPARATE CONDUIT BY ELECTRICAL CONTRACTOR.
 - ALL MECHANICAL EQUIPMENT SHALL BE FURNISHED WITH INTEGRAL DISCONNECT SWITCH BY THE HVAC CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT THAT IS NOT FACTORY SUPPLIED UNLESS NOTED ON MECHANICAL DRAWINGS. CONTRACTOR SHALL COORDINATE SIZE WITH MECHANICAL EQUIPMENT SPECIFICATIONS AND MECHANICAL CONTRACTOR.
 - CONTRACTOR TO COORDINATE REQUIRED SERVICE CLEARANCES FOR MECHANICAL EQUIPMENT, TYPICAL.
 - ALL EXTERIOR AND ROOF-TOP ELECTRICAL DEVICES SHALL BE PROVIDED WITH NEMA 3R WEATHER-PROOF ENCLOSURE. COORDINATE SIZES AND RATINGS AS AS INDICATED ON PLANS.



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Stamp

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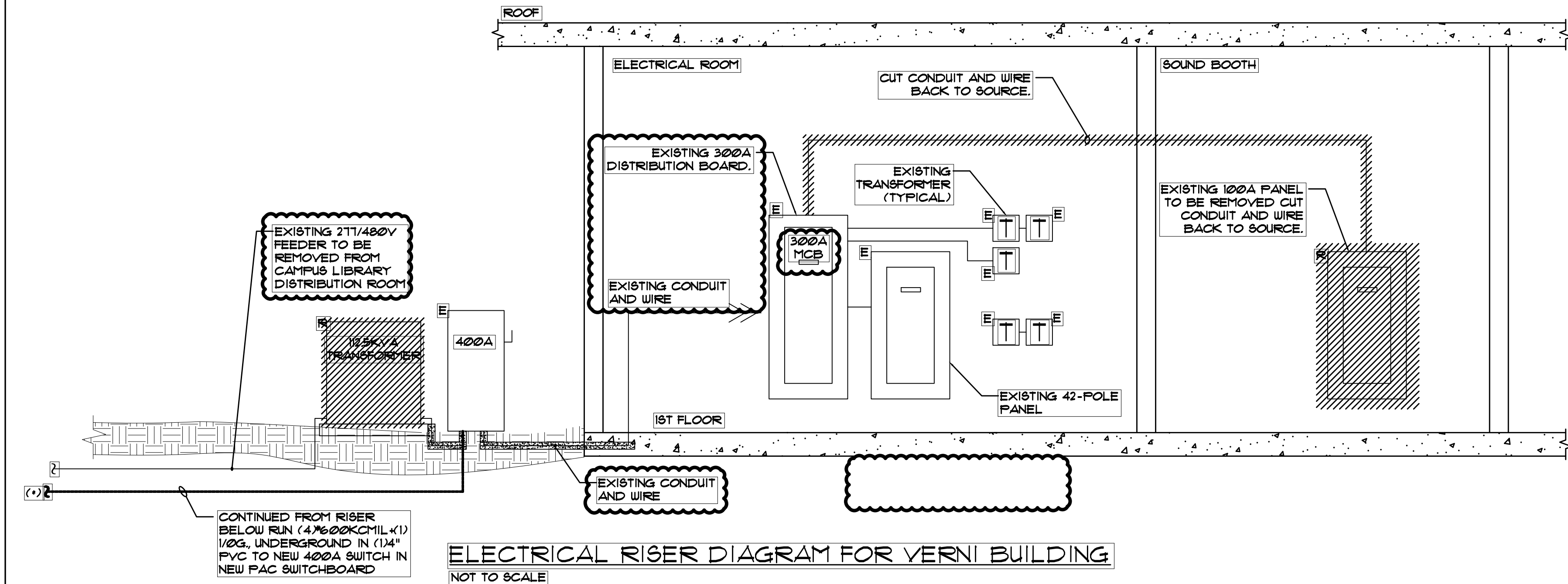
Project Address
IONA PREPARATORY SCHOOL
255 Wilmot Road
New Rochelle, NY 10804

Drawing Title
SECOND FLOOR
ELECTRICAL MECHANICAL
POWER PLAN

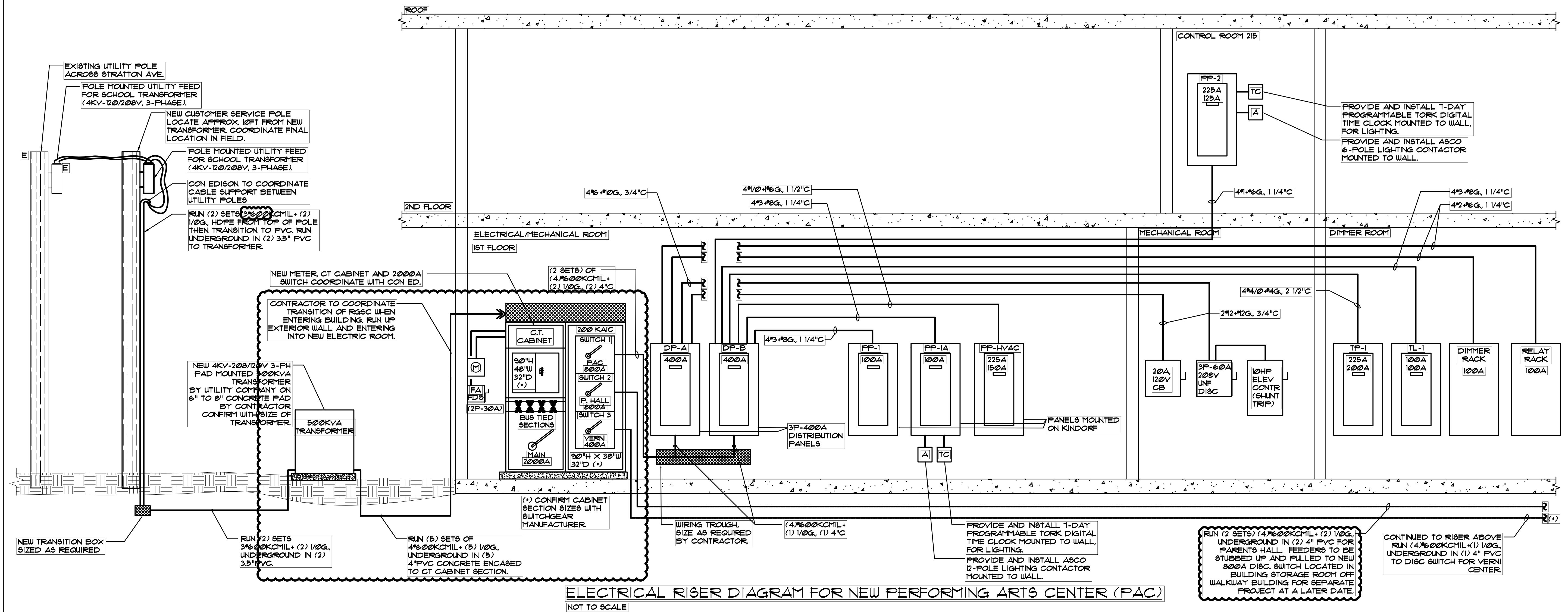
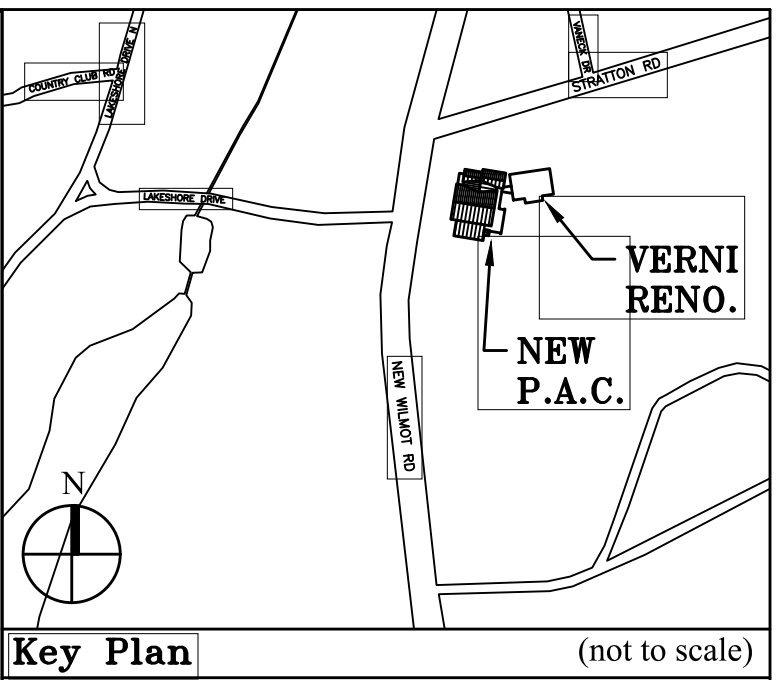
Scale	Job No.	Date	Drawing No.
1/8"=1'-0"	20-2723	04/03/2019	E-307

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- ELECTRICAL RISER DIAGRAM NOTES:**
- RISER DIAGRAM IS DIAGRAMMATIC. CONTRACTOR SHALL PERFORM A PRE-DEMOLITION OR CONSTRUCTION SURVEY OF THE EXISTING CIRCUITING AND PANELBOARDS SERVING THE EXISTING SPACE.
 - CIRCUITING AND CIRCUIT BREAKERS IN EXISTING PANELBOARDS, NOT EFFECTED BY DEMOLITION SHALL REMAIN UNLESS NOTED. CONTRACTOR TO TRACE AND FIELD VERIFY EXISTING CIRCUITS THAT ARE TO REMAIN OR BE RELOCATED WITH PANEL. EXTEND/TRANSFER CIRCUITS BEING RELOCATED WITH EXISTING PANEL TO NEW LOCATIONS AS REQUIRED.
 - EXISTING PANELBOARDS, CIRCUITRY, CIRCUIT BREAKERS, MISC. EQUIPMENT, ETC. NOT AFFECTED BY DEMOLITION SHALL REMAIN UNLESS NOTED. CONTRACTOR TO TRACE AND FIELD VERIFY EXISTING CIRCUITS THAT ARE TO REMAIN OR RELOCATED WITH PANELS.
 - CONTRACTOR SHALL PROVIDE AND INSTALL FULL BOXES AND EXTEND EXISTING WIRING/CONDUIT AS REQUIRED FOR CONNECTION OF NEW/EXISTING CIRCUITS TO PANELS.
 - REFER TO NEW/EXISTING PANEL SCHEDULES ON DRAWING E-601 FOR BRANCH CIRCUIT WIRING.
 - CONTRACTOR SHALL REVIEW EXISTING ELECTRIC CLOSET CONDITIONS AND ADVISE ENGINEER OF ANY CONFLICTS OMISSIONS OR ADDITIONAL REQUIREMENTS THAT MAY BE REQUIRED.
 - CONTRACTOR TO PROVIDE SHOP DRAWINGS OF COORDINATED ELECTRICAL ROOM LAYOUTS INCLUDING EQUIPMENT SIZES, ELEVATIONS AND MOUNTING DETAILS OF PANELBOARDS, RELAY PANELS, DISCONNECT SWITCHES, ETC.
 - CONTRACTOR SHALL COORDINATE NEW CONDUIT ROUTINGS WITH ARCHITECT SERVING NEW AND EXISTING EQUIPMENT SCHEDULED TO REMAIN.
 - ELECTRICAL SWITCH-BORDS AND PANELS SHALL BE MANUFACTURED BY ELECTRO-TECH SERVICE EQUIPMENT OR APPROVED EQUAL. FOR FURTHER INFORMATION CONTACT DON CASTER AT 718-626-1100 OR dcaster@eseny.com.



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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
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		
JMV CONSULTING ENGINEERING, P.C. 37 W. 59 STREET, STE 703 NEW YORK, NY 10019 212-652-9855		
ROOFING CONSULTANT		
WATSKY ASSOCIATES 20 MADISON AVENUE VALHALLA, NY 10986 914-948-3450		
Stamp		

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
**ELECTRICAL RISER
DIAGRAM**

Scale Job No. Date Drawing No.
NTS 20-2723 04/03/2019 E-501

Drawn
**Peter Gisolfi Associates
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