

140 Park Avenue D New City, New York 10956 D Tel 845-708-9200 D Fax 845-708-9222 D E-mail info@shilale.com

February 17, 2022

UV REPLACEMENT AT HAVERSTRAW ELEMENTARY SCHOOL MSA File No. 41048 North Rockland High School SED

SED No. 50-02-01-06-0-009-018

NOTICE TO BIDDERS

Re: ADDENDUM NO. 7

THE FOLLOWING REVISIONS TO THE PROJECT MANUAL AND OR THE DRAWINGS REFERENCED HEREIN SHALL BECOME A PART OF THE CONTRACT DOCUMENTS AND SHALL SUPERSEDE ANY PRIOR OR CONFLICTING INFORMATION.

 SEALED BIDS will be received until 2:00 P.M. in the office of facilities, on the 24th of February 2022, at the North Rockland Central School District, 65 Chapel Street, Garnerville, NY 10923, at which time and place they will be publicly opened and read. Faxed bids will NOT be accepted. Bids must be in sealed envelope(s) approximately labeled with the following label: "UV Replacement at Haverstraw Elementary School – General Construction" "UV Replacement at Haverstraw Elementary School – Mechanical Construction"

"UV Replacement at Haverstraw Elementary School - Electrical Construction"

- 2) A site inspection and pre-bidders' conference has been scheduled promptly at 10:00AM on the 22nd day of February, at Haverstraw Elementary School, 16 Grant Street, Haverstraw, NY 10923.
- 3) Alternate No. 4 has been added to the project. Alternate No. 4 replaces the wood line set enclosures with gypsum line set enclosures. Please refer to detail 4/A-503 Line Set Enclosure Detail. See attached revised drawing A-000 Cover Sheet, and specification sections 003000G Bid Form and 012300 Alternates dated 02-17-22. Remove originals and replace with attached.
- 4) Alternate No. 5 has been added to the project. Alternate No. 5 steam coils for units labeled HC-2A/2B and HC-3A/3B shall have steam coils shipped loose and field installed in supply ductwork. See attached revised drawing M-002, M-103, M-104 and M-303, and specification sections 003000G Bid Form and 012300 Alternates dated 02-17-22. Remove originals and replace with attached.
- 5) Paint finishes. Drawings A-500, A-502 and A-503 have been revised to apply PT1 at all new surfaces and disturbed areas. See attached revised drawings A-500, A-502 and A-503 dated 02-17-22. Remove originals and replace with attached.
- 6) Electrical drawings have been revised. Base bid work has been revised to provide a new electric panel on the second floor. See attached revised drawings E-101, E-102, E-103, E-104 and E-201 dated 02-17-22. Remove originals and replace with attached.
- 7) Mechanical drawings have been revised. Base bid work has been revised to incorporate the use of either Trane or Daiken or approved equal. Humidity sensor added to all new UV locations. See attached revised drawings M-002, M-003, M-004 and M-006, dated 02-17-22. Remove originals and replace with attached.

END OF ADDENDUM NO. 7

C:\Users\alazaro\Dropbox (MSA LLP)- M DRIVE\2021\41048 UV Replacement at Hav Elementary\6BN\Addenda\Addenda\Addendum No. 7\41048 Addendum No 7.doc

PART 1 - GENERAL

1.01 GENERAL

A. Pursuant to, and in compliance with, your Advertisement for Bids and the Information to Bidders relative thereto and all of the Contract Documents, including any Addenda issued by the Architect and mailed to the undersigned prior to the opening Bids, whether received by the undersigned or not, we

(CONTRACTOR NAME)

hereby proposes to furnish all plant, labor, supplies, materials, and equipment for UV Replacement at Haverstraw Elementary School – General Construction, as required by and in strict accord with the applicable provisions of the Drawings and Specifications entitled "UV Replacement at Haverstraw Elementary School – General Construction at Haverstraw Elementary School, 16 Grant Street, Haverstraw, NY 10927 for the North Rockland Central School District, 65 Chapel Street, Garnerville, NY 10923 ", all to the satisfaction and approval of the Architect and the Owner in accordance with the terms and conditions of the Contract Documents for the following prices:

1		Dollars
	(Write out in words)	
() Base Bid for all work.	

_____ Consecutive Calendar Days for substantial completion ______ with base bid.

The undersigned further proposes and agrees hereby to commence work with an adequate force and equipment immediately after being notified in writing to do so, and to achieve substantial completion for all work as required by the plans and specifications within the number of consecutive calendar days as itemized above.

A. UV Replacement at Haverstraw Elementary School

Total Project General Construction (\$_____)

B. ALTERNATES

Alternate No. 3 Not Used

The undersigned further proposes and agrees that, should any of the following alternates be accepted and included in the Contract, the amount of the Base Bid, is hereto stated, shall be increased or decreased by the amounts indicated below.

Alternate No. 1 Work phasing. Phase A to be in summer of 2022 and phase B to be in summer of 2023. See architectural and mechanical floor plans for phase A and phase B locations. (Indicate add or deduct amount to Base Bid.)

	(\$)
Alternate No. 2		
Work phasing. Phase A to be in summer of 2022 and phase B to be during fall of		
2022 2nd shift. See architectural and mechanical floor plans for phase A and phase		
B locations.		
(Indicate add or deduct amount to Base Bid.)		
	(\$	_)

(\$)

)

Alternate No. 4

Gypsum Line Set Enclosures. Line set enclosures to be made of gypsum instead of wood at all locations. See detail 4/A-503. (deduct amount to Base Bid.) (\$)

C. ALLOWANCES

The undersigned further proposes and agrees that, should any of the following alternates be accepted and included in the Contract, the amount of the Base Bid, is hereto stated, shall be increased or decreased by the amounts indicated below.

Allowance No. 1 Not used.	(\$)
Allowance No. 2 Not used.	(\$)
Allowance No. 3 Not used.	(\$)
Allowance No. 4 Not used.	(\$)
Allowance No. 5: Contractors to include allowance for LF of line set enclosure noted on drawings. Adjustment to increase/decrease the LF will be in Unit Price No. 1.	(\$)
Allowance No. 6: Not used.	(\$)
Allowance No. 7: Not used.	(\$)

1.02 TIME OF COMPLETION

A. It is agreed by the undersigned that after receipt of Notice of Award and a consummation of a Contract Agreement in accord with the terms of the Contract Documents, he will start work on June 27, 2022. Substantial completion will be August 19, 2022. The punch list work will be completed by September 16, 2022 and performed after school hours.

1.03 BID SECURITY

- A. Attached hereto is Bid Security in the amount of five percent (5%) of the Base Bid.
- 1.04 UNIT PRICES

А.	Unit Price No. 1: Provide unit price to increase or reduce by 10'- 0" the line set e	nclosure.
B	Unit Price No. 2: Provide unit price per square foot of VCT replacement	(\$)
D.	om the tot 2. Hovide and pree per square foot of vertreplacement.	(\$
C.	Unit Price No. 3: Provide a unit price for linear feet of wood base replacement.	(+)
D.	Unit Price No. 4: Not used	(\$)
2.		(\$)
E.	Unit Price No. 5: Not used	、
		(\$)

1.06 NON-COLLUSIVE BIDDING CERTIFICATION

- A. By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of knowledge and belief:
 - 1. The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor.
 - 2. Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or to any competitor; and
 - 3. No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not submit a bid for the purpose of restricting competition.

Resolved that

(Name of Individual)

be authorized to sign and submit the bid or proposal of this corporation for the following project

and to include in such bid or proposal the certificate as to non-collusion required by Section One Hundred Three (d) (103d) of the General Municipal Law as the act and deed of such corporation, and for any inaccuracies or misstatements in such certificate this corporate bidder shall be liable under the penalty of perjury.

The foregoing is a true and correct cop of the resolution by

Corporation at a meeting of its Board of Directors held on the day of, 20____.

(SEAL OF THE CORPORATION)

Secretary

1.07 ACCEPTANCE

- A. When this Proposal is accepted, the undersigned agrees to enter into Contract with the Owner as provided in the Form of Agreement.
- 1.08 AFFIRMS
- A. The undersigned affirms and agrees that this Proposal is a firm one which remains in effect and will be irrevocable for a period of forty-five (45) days after opening of Bids.

1.09 TYPE OF BUSINESS

- 1.10 PLACE OF BUSINESS
- A. The following is the name and address of the person to whom all notices required in the connection with this Proposal may be telephoned, mailed or delivered.

(Name)

(Address)

(Telephone)

- 1.11 EXECUTION OF CONTRACT
- A. When written Notice of Acceptance of the Proposal is mailed or delivered to the undersigned within forty-five (45) days after the opening of Bids, or anytime thereafter should the Proposal not be withdrawn, the undersigned, within ten (10) days, will execute the Form of Agreement with the Owner.
- 1.12 ADDENDA
- A. Any Addenda issued by the Architect and mailed or delivered to the undersigned prior to the Bid opening date shall become part of the Contract Documents. The Bidder shall enter on this list any addenda issued after this Form of Proposal has been received and shall fill in the addenda number and date.

Addendum #	Dated	
Addendum #	Dated	

- 1.13 ASBESTOS
- A. The Contractor certifies that no asbestos or asbestos-containing material will be incorporated into the Work of this Contract.

(Sign Bid Here)

Dated_____, 20____

Legal Name of Person, Partnership or Corporation

By

Title _____

Address

PART 1 - GENERAL

1.01 GENERAL

A. Pursuant to, and in compliance with, your Advertisement for Bids and the Information to Bidders relative thereto and all of the Contract Documents, including any Addenda issued by the Architect and mailed to the undersigned prior to the opening Bids, whether received by the undersigned or not, we

(CONTRACTOR NAME)

hereby proposes to furnish all plant, labor, supplies, materials, and equipment for UV Replacement at Haverstraw Elementary School – Mechanical, as required by and in strict accord with the applicable provisions of the Drawings and Specifications entitled "UV Replacement at Haverstraw Elementary School – Mechanical at Haverstraw Elementary School, 16 Grant Street, Haverstraw, NY 10927 for the North Rockland Central School District, 65 Chapel Street, Garnerville, NY 10923", all to the satisfaction and approval of the Architect and the Owner in accordance with the terms and conditions of the Contract Documents for the following prices:

1			Dollars	
	(Write out in words)			
() Base Bid for all work.		

_____ Consecutive Calendar Days for substantial completion ______ with base bid.

The undersigned further proposes and agrees hereby to commence work with an adequate force and equipment immediately after being notified in writing to do so, and to achieve substantial completion for all work as required by the plans and specifications within the number of consecutive calendar days as itemized above.

A. UV Replacement at Haverstraw Elementary School

Total Project Mechanical Construction (\$_____)

B. ALTERNATES

The undersigned further proposes and agrees that, should any of the following alternates be accepted and included in the Contract, the amount of the Base Bid, is hereto stated, shall be increased, or decreased by the amounts indicated below.

Alternate No. 1

Work phasing. Phase A to be in summer of 2022 and phase B to be in summer of 2023. See architectural and mechanical floor plans for phase A and phase B locations. (Indicate add or deduct amount to Base Bid.)

Alternate No. 2
Work phasing. Phase A to be in summer of 2022 and phase B to be during fall of
2022 2nd shift. See architectural and mechanical floor plans for phase A and phase
B locations.
(Indicate add or deduct amount to Base Bid.)

Alternate No.	3
Not Used	

(\$)

(\$

)

Alternate No. 4 Not Used	(\$)
Alternate No. 5 Steam coils for units labeled HC-2A/2B and HC-3A/3B shall have steam coils shipped loose and field installed in supply ductwork (deduct amount to Base Bid.)	(\$)

C. ALLOWANCES

The undersigned further proposes and agrees that, should any of the following alternates be accepted and included in the Contract, the amount of the Base Bid, is hereto stated, shall be increased, or decreased by the amounts indicated below.

Allowance No. 1: Unit-Cost, Clean Existing Main Ductwork. Provide allowance to clean existing main ductwork for 20 linear feet per unit.	(\$)
Allowance No. 2: Unit Cost Allowance: Replace Existing Supply and Return Steam Piping and Insulation. Provide Allowance to replace existing supply and return steam piping and insulation for 20 linear feet per unit.	(\$)
Allowance No. 3: Commissioning Allowance: Provide a proposal from a third-party HVAC Commissioning Agent Contractor is to include this amount in their base bid. Contractor will issue a credit change order to the Owner for the commissioning proposal amount. Owner will contract directly with the commissioning agent.	(\$)
Allowance No. 4: Not used	(\$)
Allowance No. 5: Not used	(\$)
Allowance No. 6: Contractor shall include in their bid an allowance 10' of piping/insulation for each UV and 20' at each RTU. See drawings 3/M-501 and 4/M-501. Adjustment to increase/decrease the LF will be in Unit Price No. 5.	(\$)
Allowance No. 7: Not used	(\$)

1.02 TIME OF COMPLETION

A. It is agreed by the undersigned that after receipt of Notice of Award and a consummation of a Contract Agreement in accord with the terms of the Contract Documents, he will start work on June 27, 2022. Substantial completion will be August 19, 2022. The punch list work will be completed by September 16, 2022 and performed after school hours.

A. Attached hereto is Bid Security in the amount of five percent (5%) of the Base Bid.

A. Unit Price No. 1: Not used

(\$_____)

^{1.03} BID SECURITY

^{1.04} UNIT PRICES

B.	Unit Price No. 2: Not used	(\$)
C.	Unit Price No. 3: Not used	(\$)
D.	Unit Price No. 4: Not used	(\$)
E.	Unit Price No. 5: Provide unit price to increase or reduce by 10'- 0" of piping/insul-	ation. (\$)

1.06 NON-COLLUSIVE BIDDING CERTIFICATION

- A. By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of knowledge and belief:
 - 1. The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor.
 - 2. Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or to any competitor; and
 - 3. No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not submit a bid for the purpose of restricting competition.

Resolved that _

(Name of Individual)

be authorized to sign and submit the bid or proposal of this corporation for the following project

and to include in such bid or proposal the certificate as to non-collusion required by Section One Hundred Three (d) (103d) of the General Municipal Law as the act and deed of such corporation, and for any inaccuracies or misstatements in such certificate this corporate bidder shall be liable under the penalty of perjury.

The foregoing is a true and correct cop of the resolution by

Corporation at a meeting of its Board of Directors held on the _______.

(SEAL OF THE CORPORATION)

Secretary

1.07 ACCEPTANCE

- A. When this Proposal is accepted, the undersigned agrees to enter into Contract with the Owner as provided in the Form of Agreement.
- 1.08 AFFIRMS
- A. The undersigned affirms and agrees that this Proposal is a firm one which remains in effect and will be irrevocable for a period of forty-five (45) days after opening of Bids.
- 1.09 TYPE OF BUSINESS

A. The undersigned hereby represents that it is a ______

(Corporation, Partnership, or an Individual). If a Corporation, then the undersigned further represents that it is duly qualified as a Corporation under laws of New York State and it is authorized to do business in this State.

1.10 PLACE OF BUSINESS

A. The following is the name and address of the person to whom all notices required in the connection with this Proposal may be telephoned, mailed or delivered.

(Name)

(Address)

(Telephone)

1.11 EXECUTION OF CONTRACT

A. When written Notice of Acceptance of the Proposal is mailed or delivered to the undersigned within forty-five (45) days after the opening of Bids, or anytime thereafter should the Proposal not be withdrawn, the undersigned, within ten (10) days, will execute the Form of Agreement with the Owner.

1.12 ADDENDA

A. Any Addenda issued by the Architect and mailed or delivered to the undersigned prior to the Bid opening date shall become part of the Contract Documents. The Bidder shall enter on this list any addenda issued after this Form of Proposal has been received and shall fill in the addenda number and date.

Addendum #	Dated	
Addendum #	Dated	

1.13 ASBESTOS

A. The Contractor certifies that no asbestos or asbestos-containing material will be incorporated into the Work of this Contract.

		(Sign Bid Here)	
Dated, 20_		Legal Name of Person, Partnership or Corporation	
	By Title		

Address

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include, as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation, whether or not indicated as part of alternate.
- B. Execute accepted alternates under the same conditions as other Work of the Contract.
- C. Schedule: A Part 3 "Schedule of Alternates" Article is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Alternate No. 1: Work phasing. Phase A will begin on site on June 2022 and complete by August 2022, and Phase B begin on site on June 2023 and complete by August 2023. Phase A will include the work related to the mechanical installation in the Western portion of the building (containing the three floors of classrooms), and any additional GC work not related to installation of mechanical equipment. Phase B will include the work related to the mechanical installation in the Eastern portion of the building (containing the gymnasium, auditorium, and locker rooms). Refer to

SECTION 012300 - ALTERNATES 012300 - 1 Copyright © 2021 by the American Institute of Architects. Warning: This AIA MasterSpec-based document is protected by U.S. Copyright Law and International Treaties. It was created by "Michael Shilale Architects, LLP" for "41048 Haverstraw ES UV Replacement and Rooftop HVAC Units". A valid, current MasterSpec license is required for editing and use of this document for any other project.(15294) drawings A-000, A-101, A-102, A-103, A-104, M-101, M-102, M-103 and M-104 dated 01-24-22 for additional location information.

- B. Alternate No. 2: Work phasing. Phase A will begin on site on June 2022 and complete by August 2022, and Phase B as second shift work starting in September 2022. Phase A will include the work related to the mechanical installation in the Western portion of the building (containing the three floors of classrooms), and any additional GC work not related to installation of mechanical equipment. Phase B will include the work related to the mechanical installation in the Eastern portion of the building (containing the gymnasium, auditorium, and locker rooms). Refer to drawings A-000, A-101, A-102, A-103, A-104, M-101, M-102, M-103 and M-104 dated 01-24-22 for additional location information.
- C. Alternate No. 3: Provide new power supply to UVs as shown on E-101, E-102, and E-103 dated 12-17-21. New conduit shall be installed within the line set enclosure.
- D. Alternate No. 4: Gypsum Line Set Enclosures. Line set enclosures to be made of gypsum instead of wood at all locations. See detail 4/A-503.
- E. Alternate No. 5: Steam coils for units labeled HC-2A/2B and HC-3A/3B shall have steam coils shipped loose and field installed in supply ductwork.

END OF SECTION 012300

UNIVENT REPLACEMENT AT HAVERSTRAW ELEMENTARY

HAVERSTRAW ELEMENTARY SCHOOL **16 Grant Street** Haverstraw, NY 10927 SED# 50-02-01-06-0-009-018

OWNER: NORTH ROCKLAND CENTRAL SCHOOL DISTRICT 65 Chapel Street Garnerville, NY 10923

ARCHITECT: MICHAEL SHILALE ARCHITECTS, LLP 140 Park Avenue New City, NY 10956

> **PME ENGINEER: GREENMAN-PEDERSON, INC.** 400 Rella Boulevard, Suite 207 Montabello, NY 10901

1. ALL PLAN DIMENSIONS ARE NOMINAL U.O.N. DIMENSIONS TO THE FINISHED FACE OF AN ELEMENT OR WALL WILL BE DESIGNATED WITH AN "F" AS SHOWN.
2. G.C. TO VERIFY ALL DIMENSIONS IN THE FIELD AND IS TO NOTIFY ARCHITECT IF THERE ARE ANY DISCREPANCIES.

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		A-C
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		S-1 S-1
		S-1 D-1
	J GRAVEL OR STONE	D-1 D-1
	EARTH	D-1 A-1
	EIFS	A-1
	ASPHALT PAVING	A-1
	SAND/MORTAR/GYPSUM BOARD	A-5
	STEEL	A-5
	ACT	A-5
	ROUGH WOOD	M-0 M-0
	BRONZE	M-0 M-0
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		E-C
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ALTERNATE N	IO. 1: WORK PHASING. PHASE A TO BE IN	LAM LAV
	SUMMER OF 2022 AND PHASE B TO BE IN SUMMER OF 2023. SEE ARCHITECTURAL AND MECHANICAL FLOOR PLANS FOR PHASE A	MAX MFR
	AND PHASE B LOCATIONS.	MIL MIN MO
ALTERNATE N	IO. 2: WORK PHASING. PHASE A TO BE IN SUMMER OF 2022 AND PHASE B TO BE	N.I.C NO. OC
	ARCHITECTURAL AND MECHANICAL FLOOR PLANS FOR PHASE A AND PHASE R	OPN PBC PLAS
	LOCATIONS.	PL PLY RAD
ALTERNATE N	AS SHOWN ON E-101, E-102 AND E-103.	REF. REQ RO
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S-101 S-102	ROOF PLAN & GENERAL NOTES ROOF PARTIAL PLANS		12-17-21	1/2 BAR D THEN FULL	ITEM	- M D	CUME CUME
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D-102 D-103	THIRD FLOOR DEMO PLAN		12-17-21 12-17-21	WE	Х, ТС		Re Re
D-104 A-101	ROOF DEMO PLAN PROPOSED FIRST FLOOR PLAN		12-17-21 01-28-22		HITEC	28-2	7-2 9-2 30-2
A-102	PROPOSED SECOND FLOOR PLAN		01-24-22) ARC	01-2	Date
A-103 A-104	PROPOSED ROOF PLAN		01-24-22 12-17-21		ENSE		
A-400 A-500	REFLECTED CEILING PLAN DETAILS		12 - 17 - 21 (02 - 17 - 22)		A LICI		
A-501	UNIT ELEVATIONS				Ъ	<u>_7</u>	
A-501.1 A-502	DETAILS		02-17-22		CTION		
A-503 M-001	DETAILS MECHANICAL NOTES		02-17-22		DIRE		
M-002	MECHANICAL SCHEDULES		02-17-22		Ħ		
M-003 M-004	CONTROLS		02-17-22		NDER		
M-005 M-006	VENTILATION SCHEDULE UV SCHEDULE		12 - 17 - 21 7 (02 - 17 - 22)		NG UI		
M-061	HVAC DEMO FIRST FLOOR PLAN		01-24-22		ACTII		
M-062 M-063	HVAC DEMO SECOND FLOOR PLAN HVAC DEMO THIRD FLOOR PLAN		01-24-22		LESS		
M-101 M-102	FIRST FLOOR PLAN MECHANICAL SECOND FLOOR PLAN MECHANICAL		01-24-22 01 <u>-</u> 24 <u>-</u> 22		N, UN	, JC	-21 -21
M-103	THIRD FLOOR PLAN MECHANICAL		02-17-22		ERSON		410 30-
M-301	hvac piping – 1st floor plan		12-17-21		NY PI	by by log	S 8
M-302 M-303	HVAC PIPING — 2ND FLOOR PLAN HVAC PIPING — 3RD FLOOR PLAN		12-17-21 (02-17-22)		OR A	awn iecke oject	ite 0
M-401	VRF PIPING RISERS				AW AW	Pr.	Da Sc
M-501 M-502	MECHANICAL DETAILS		12-17-21		」 王 [(۲	
FA—001 FA—101	FIRE ALARM SYSTEM COVER SHEET THIRD FLOOR PLAN FIRE ALARM		12-17-21 12-17-21		OF 1	IN(
FA-102	ROOF PLAN FIRE ALARM		12-17-21		VTION	AN N, Evard	
E-060	BASEMENT DEMO PLAN ELECTRICAL		01-28-22			NMA RSE Lo, NY	
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DOVER DVER HEET HEET HAVERSTRAW	Device a contraction www.shilale.com city, NY 10956 Tel 845-708-9200 ELEMENTARY SED# 50-02-01-06-0-009-018 ELEMENTARY SED# 50-02-01-06-0-009-018 ELEMENTARY www.shilale.com where where where www.shilale.com where wh
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ACT A.F.F. ASPH BLK BLK'G BUR CLG CONC CONT C.J. DN DIA DWG E.F. EIFS E.W. ELC EXIST EXP EXT'G EXTR FP FIN. GA GC GALV GL GK GK GL GK GK HM H.P. HAC ITR JT LAM LAV LP MAX MFR MTL MIN MO N.I.C. NO. OC OPN'G PBC PLAS.LAM. PLY'D RAD REF.CLG. REQ'D RO SIM STL SUSP.CLG. T.O.M. T.O.S. TYP U.O.N. V.I.F. VCT W/ WD	ACOUSTICAL CEILING TILE ABOVE FINISH FLOOR ASPHALT BLOCK BLOCKING BUILT UP ROOFING CEILING CONTROL JOINT DOWN DIAMETER DRAWING ECONTROL JOINT DOWN DIAMETER DRAWING EXCENTRAL CONTRACTOR EXTERIOR INSULATION AND FINISH SYSTEM EACH WAY ELECTRICAL WATER COOLER ELEVATION ELECTRICAL CONTRACTOR EXISTING EXTERIOR FIREPROOF FINISH(ED) GAUGE GENERAL CONTRACTOR GALVANIZED GLASS GYPSUM WALL BOARD HOLLOW METAL HIGH POINT HEATING & A/C CONTRACTOR INDIVIDUAL TREATMENT ROOM JOINT LAMINATE LAWINORY HIGH POINT HEATING & A/C CONTRACTOR INDIVIDUAL TREATMENT ROOM JOINT LAMINATE LAWINORY MANUFACTURER METAL MINIMUM MASONRY OPENING NOT IN CONTRACT NUMBER ON CENTER OPENING SUSPENDED CEILING REQUIRED ROUGH OPENING SUSPENDED CEILING REQUIRED ROUGH OPENING SUSPENDED CEILING REQUIRED ROUGH OPENING SUSPENDED CEILING REQUIRED ROUGH OPENING SUSPENDED CEILING REQUIRED ROUGH OPENING SUSPENDED CEILING REPLOYED DO MASONRY TYPICAL UNLESS OTHERWISE NOTED VERIFY IN FIELD VINT, COMPOSITE TILE WITH WOOD	ALLOWANCE NO ALLOWANCE NO ALLOWANCE NO ALLOWANCE NO ALLOWANCE NO ALLOWANCE NO ALLOWANCE NO ALLOWANCE NO ALLOWANCE NO E ALLOWANCE NO E UNIT PRICE NO F UNIT PRICE NO F	 GS 1: PROVIDE ALLOWANCE TO CLUXISTING MAIN DUCTWORK FOR 20 CET PER UNIT. 2: PROVIDE ALLOWANCE TO RELIXISTING SUPPLY AND RETURN PIXISTING PROPOSAL FROM PARTY HVAC COMMISSIONING AGENT. 4: PROVIDE ALLOWANCE FOR TI REQUIRE RELOCATION DE ALLOWANCE FOR TO THE COMMISSIONING AGENT. 4: PROVIDE ALLOWANCE FOR TI REQUIRE RELOCATION DUE THE NEW UN VENTILATORS. 5: CONTRACTOR TO INCLUDE AN OR LF OF LINE SET ENCLOSURE PRAWINGS. 6: CONTRACTOR SHALL INCLUDI AN ALLOWANCE FOR 10' OF LINE SET ENCLOSURE PRAWINGS. 6: CONTRACTOR SHALL INCLUDI AN ALLOWANCE FOR 10' OF LINE SET ENCLOSURE PRAWINGS. 7: CONTRACTOR TO INCLUDE AN OR LF OF WIRE MOLD NOTED ON AN ALLOWANCE FOR 10' OF LINE SET ENCLOSURE POWER CONNECTIONS TO 10 LLOOWAANCE FOR 10' OF LINE SET ENCLOSURE POWER CONNECTIONS TO 10 LLOOWAANCE FOR LINE SET ENCLOSURE POWER CONNECTIONS TO 10 LLOOWAANCE FOR LINE SET ENCLOSURE POWER CONNECTIONS TO 10 LLOOWAANCE FOR LINE SET ENCLOSURE POWER CONNECTIONS TO 10 LLOOWAANCE FOR LINE SET ENCLOSURE POWER CONNECTIONS TO 10 LLOOWAANCE FOR LF O INCREASE REPLACEMENT 4: ROVIDE UNIT PRICE PER SQUARE (CT REPLACEMENT 4: ROVIDE A UNIT PRICE TO INCREASE REPLACEMENT 4: ROVIDE A UNIT PRICE TO INCREASE REPLACEMENT 6: ROVIDE A UNIT PRICE TO PROVIDE OUT PARTY PRI	EAN D LINEAR PLACE PING AND PER UNIT. A THIRD IT AMOUNT IN L ISSUE A WNER FOR MOUNT, WITH THE HE EVICES O THE T LOWANCE NOTED ON E IN THEIR PIPING/ O' AT EACH ID LOWANCE NOTED ON E IN THEIR PIPING/ O' AT EACH ID LOWANCE N DRAWINGS. O PROVIDE UVS. COVER. F WOOD ASE OR SULATION. DE NEW POWER	COPYRIGHT, MICHAEL SHILALE ARCHITECTS LLP, ALL RIGHTS RESERVED.	owing Title COVER SHEET AT HAVERSTRAW	awing No. MICHAEL SHILALE ARCHITECTS, L.L.P. A-000 ELEMENTARY SED# 50-02-01-06-0-009-018 www.shilale.com I6 Grant Street Baverstraw, NY 10927 country of Rockland
ACT A.F.F. ASPH BLK BLK'G BUR CLG CONC CONT C.J. DN DIA DWG E.F. EIFS E.W. E.W.C. EL ELC EXIST EXP EXT'G EXTR FP FIN. GA GC GALV GL GC GWB HM H.P. HAC ITR JT LAM LAV LP MAX MFR MTL MIN MO N.I.C. NO. OC OPN'G PBC PLAS.LAM. PL PLY'D RAD REF.CLG. T.O.M. T.O.S. T.O.M. T.O.S. T.O.M. T.O.S. T.O.M. T.O.S. T.O.M. T.O.S. T.O.M. T.O.S. T.O.M. T.O.S. T.O.M. T.O.S. T.O.M. T.O.S. T.O.M. T.O.S. T.O.M. T.O.S. T.O.M. V.I.F. V/ W/ WD	ACOUSTICAL CEILING TILE ABOVE FINISH FLOOR ASPHALT BLOCK BLOCKING BUILT UP ROOFING CEILING CONCRETE CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTROL JOINT DOWN DAMETER DRAWING EACH FACE EXTERIOR INSULATION AND FINISH SYSTEM EACH FACE EXTERIOR INSULATION AND FINISH SYSTEM EACH FACE EXTERIOR FIREPROOF FIREPROOF FIREPROOF FIREPROOF FIREPROOF FIREPROOF GALVANIZED GALVANIZED GLASS GYPSUM WALL BOARD HOLLOW METAL HIGH POINT HEATING & A/C CONTRACTOR BUINT LAMINATE LAWITORY LOW POINT MANUFACTURER METAL MINIMUM MASONRY OPENING NOT IN CONTRACTOR PLASTIC LAMINATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE DOPENING SIMLAR STEEL SUSPENDED CEILING REOURED ROUGH OPENING SIMLAR STEEL BREEVIACTOR PLASTIC LAMINATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE PLATE P	ALLOWANCE NO ALLOWANCE NO ALLOWANCE NO ALLOWANCE NO ALLOWANCE NO ALLOWANCE NO ALLOWANCE NO ALLOWANCE NO ALLOWANCE NO ALLOWANCE NO E UNIT PRICE NO F UNIT PRICE NO F	 GSS 1: PROVIDE ALLOWANCE TO CLUXISTING MAIN DUCTWORK FOR 20 CET PER UNIT. 2: PROVIDE ALLOWANCE TO RELIXISTING SUPPLY AND RETURN PINSULATION FOR 20 LINEAR FEET. 3: PROVIDE A PROPOSAL FROM ARTY HVAC COMMISSIONING AGEN CONTRACTOR IS TO INCLUDE THIS HEIR BASE BID. CONTRACTOR WILL CONTRACT DIRECTLY COMMISSIONING AGENT. 4: PROVIDE ALLOWANCE FOR TO THE COMMISSIONING AGENT. 5: CONTRACTOR TO INCLUDE AN OR LF OF LINE SET ENCLOSURE FORMINGS. 6: CONTRACTOR SHALL INCLUDI AN ALLOWANCE FOR 10' OF NSULATION FOR EACH UV AND 20 TO NSULATION FOR THE MOLD NOTED ON A TO NOTE A UNIT PRICE TO INCREASE REPLACEMENT. 4: PROVIDE A UNIT PRICE TO INCREASE REPLACEMENT. 5: NOT USABLE. INIT PRICE TO INCREASE TO THE EXISTING SUPPLY WHERE EXISTING SUPPLY IS NOT USABLE. INIT PRICE TO PROVIDE A UNIT PRICE TO PROVIDE AUNIT PRICE TO PROVIDE	EAN D LINEAR PLACE PING AND PER UNIT. A THIRD IT AMOUNT IN L ISSUE A WNER FOR MOUNT, WITH THE HE EVICES 0 THE T LOWANCE NOTED ON E IN THEIR PIPING/ 0' AT EACH ID LOWANCE DRAWINGS. D PROVIDE UVS. COVER. F WOOD SE OR SULATION. POWER	© COPYRIGHT, MICHAEL SHILALE ARCHITECTS LLP, ALL RIGHTS RESERVED.	Drawing Title COVER SHEET SHEET AT HAVERSTRAW	Drawing No. MICHAEL SHILALE ARCHITECTS, L.L.P. A-000 ELEMENTARY SED# 50-02-01-06-0-009-018 Mount Is Grant Street Is Grant Street Is Grant Street Is Grant Street Is Grant Street Is Grant Street COUDD-018 Is Grant Street COUDD-018



CATALOG NO.FINISHCOLORREMARKS310EGGSHELLBY ARCH(1) COAT PT4, (2) COATS PT1273FLATBY ARCH	NOTE: CONTRACTOR SHALL PATCH PLASTER AND PAINT ALL DAMAGED AREA AROUND UV CASE.	EXT'G COVER PLATE EXT'G WOOD STOOL EXT'G STEAM RADIATOR NEW UNIT VENT NEW UNIT VENT NEW UNIT VENT
AL SCHEDULE	4 SCALE: 1/2" = 1'-0" NOTE: CONTRACTOR SHALL PATCH PLASTER AND PAINT ALL DAMAGED AREA AROUND UV CASE.	EXT'G COVER PLATE EXT'G WOOD STOOL EXT'G STEAM RADIATOR MEW UNIT VENT
NOTE: CORNER CONDITION NOTE: PROVIDE PT1 AT ALL DISTURBED AREAS. COLOR TO MATCH EXISTING. ALL NEW SURFACES TO RECEIVE PT1.	3 NEW 1000 CF SCALE: 1/2" = 1'-0" NOTE: CONTRACTOR SHALL PATCH PLASTER AND PAINT ALL AREAS EXPOSED BY THE NEW SMALLER UV CASE.	M UNIVENT ELEVATION
APER ANICAL DWGS	2 NEW 750 CFN SCALE: 1/2" = 1'-0"	UNIVENT ELEVATION





NOTE: CONTRACTOR SHALL CUT BACK EXISTING ROOF TO INSTALL

DUNNAGE COLUMN & BASE.

,------ SEALANT

- DRAW BAND







					<u>VRF HE</u>	<u>AT REC</u>	OVERY OL	<u>JTDOOR</u>	CONDE	NSING UN	IT SCHE	DULE	1	1				1
Tag Reference	Model Number	Modules	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Efficiency IEER/EER [SEER]	Heating COP @ 47°F [HSPF]	Nom System Connected Capacity (% of NOM)	Design Cooling Outdoor Temp DB (°F)	Design Heating Outdoor Temp WB (°F)	Refrigerant Pipe Dim. (See Note 4)	Corrected Cooling Total Capacity (BTU/h)	Corrected Heating Capacity (BTU/h)	Preliminary Added Field Charge (lbs) (See Note 5)	E Voltage / Phase	MCA	808/230 RFS	МОСР	Notes / Options
CU-1	TURYE1683AN40AN	P168	168,000.0	188,000.0	25.7 / 11.55	3.55	95.2%	87.0	10.8	7/8 / 1 1/8	161,812.2	116,233.7	41.4	208/230V / 3-phase 3-wire	57/53	70/70	90/80	SEE NOTES
CU-2	TURYE1683AN40AN	P168	168,000.0	188,000.0	25.7 / 11.55	3.55	89.3%	87.0	10.8	7/8 / 1 1/8	168,904.3	117,081.5	37.2	208/230V / 3-phase 3-wire	57/53	70/70	90/80	SEE NOTES
CU-3	TURYE1683AN40AN	P168	168,000.0	188,000.0	25.7 / 11.55	3.55	97.6%	87.0	10.8	7/8 / 1 1/8	165,288.8	117,637.5	32.5	208/230V / 3-phase 3-wire	57/53	70/70	90/80	SEE NOTES
CU-4	TURYE1683AN40AN	P168	168,000.0	188,000.0	25 7 / 11 55	3 55	92.9%	87.0	10.8	7/8 / 1 1/8	162,384.3	115,947.9	46.6	208/230V / 3-phase 3-wire	57/53	70/70	90/80	SEE NOTES
CU-5	TURYE1683AN40AN	P168	168,000.0	188,000.0	25.7 / 11.55	3.55	88.1%	87.0	10.8	7/8 / 1 1/8	157,289.8	113,679.3	54.5	208/230V / 3-phase 3-wire	57/53	70/70	90/80	SEE NOTES
CU-6	TURYE1443AN40AN	P144	144,000.0	160,000.0	26.9 / 12.3	3.67	91.7%	87.0	10.8	7/8 / 1 1/8	141,585.8	98,636.2	33.5	208/230V / 3-phase 3-wire	49/45	60/60	80/70	SEE NOTES
CU-7	TURYE1203AN40AN	P120	120,000.0	135,000.0	27.55 / 13.2	3.87	76.7%	87.0	10.8	3/4 / 1 1/8	123,425.0	83,382.0	26.0	208/230V / 3-phase 3-wire	41/38	60/60	60/60	SEE NOTES
CU-8	TURYE1443AN40AN	P144	144,000.0	160,000.0	26.9 / 12.3	3.67	97.2%	87.0	10.8	7/8 / 1 1/8	142,210.2	99,763.9	26.8	208/230V / 3-phase 3-wire	49/45	60/60	80/70	SEE NOTES
CU-9	TURYE1683AN40AN	P168	168,000.0	188,000.0	25.7 / 11.55	3.55	100.6%	87.0	10.8	7/8 / 1 1/8	157,679.7	115,937.2	52.3	208/230V / 3-phase 3-wire	57/53	70/70	90/80	SEE NOTES
CU-10	TURYE1683AN40AN	P168	168,000.0	188,000.0	25.7 / 11.55	3.55	94.0%	87.0	10.8	7/8 / 1 1/8	163,431.9	116,457.7	38.9	208/230V / 3-phase 3-wire	57/53	70/70	90/80	SEE NOTES
CU-11	TURYE1443AN40AN	P144	144,000.0	160,000.0	26.9 / 12.3	3.67	70.8%	87.0	10.8	7/8 / 1 1/8	148,717.8	100,475.3	24.9	208/230V / 3-phase 3-wire	49/45	60/60	80/70	SEE NOTES
CU-12	TURYE1683AN40AN	P168	168,000.0	188,000.0	25.7 / 11.55	3.55	89.3%	87.0	10.8	7/8 / 1 1/8	170,280.6	117,464.2	33.9	208/230V / 3-phase 3-wire	57/53	70/70	90/80	SEE NOTES

OUTDOOR CONDENSING UNIT SCHEDULE NOTES: 1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB)

- 2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB)
- 3. EFFICIENCY VALUES FOR EER, IEER, COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED & NON-DUCTED INDOOR UNITS.
- 4. FOR SYSTEMS WITH MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED
- PIPING DOWNSTREAM OF MODULE TWINNING. 5. ADDED FIELD CHARGE LISTED IS IN ADDITION TO FACTORY CHARGE, THIS MUST BE UPDATED BASED UPON
- FINAL AS-BUILT PIPING LAYOUT. 6. COOLING EFFICIENCY FOR CONDENSING UNITS MUST BE 10% GREATER THAN LIMITS SET IN 2020 ECC NYS
- C406.2-10.5 EER, 11.8 IEER. 7. FACTORY REPRESENTATIVES SHALL STARTUP AND COMMISSION CITY MULTI EQUIPMENT UPON COMPLETION
- OF EQUIPMENT INSTALLATION. 8. FACTORY REPRESENTATIVES SHALL PROVIDE ON-SITE ASSISTANCE FOR THE BMS INTEGRATION OF THE CITY
- MULTI EQUIPMENT. 9. ACCEPTABLE MANUFACTURER'S ARE DAIKIN OR TRANE

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										R	OOFTC)P AIR	HANDLIN	IG UNITS	5								ACCEPTABLE MANUFAC	
																							\top	$\overline{)}$
UNIT TAG	AREA SERVED	REFRIGERANT	TOTAL SUPPLY AIRFLOW	MINIMUM OUT (C	FSIDE AIRFLOW FM)	MAXIMUM OUTSIDE AIRFLOW	EXTERNAL STATIC PRESSURE			CC	DOLING			HE (SEE STEAM SCF	EATING 1 HEATING COIL 1EDULE)	FILTER		ELEC	TRICAL	SUPF MOTC	PLY FAN R INFO	UNIT WEIGHT (LBS)	UNIT DIMENSIONS (LxWxH, IN)	BASIS
				COOLING	HEATING	- (CFM)	(IN W.C.)	NOMINAL CAPACITY (TONS)	MIN. TOTAL CAPACITY (MBH)	MIN. SENSIBLE CAPACITY (MBH)	MINIMUM EER	MINIMUM IEER	CONDENSER EAT (°F DB)			MERV	MCA	MOP	VOLT/PH/HZ	HP	BHP			
RTU-2	AUDITORIUM (218)	R410A	12000	6200	6200	12000	1.0	27.50	364.82	261.04	11.0	13.6	95	-	-	14	161.97	175	208/3/60	10	8.30	5000	180x90x72	TRAN
RTU-3	GYMNASIUM (220)	R410A	11500	2500	2500	11500	1.0	30.00	350.91	247.60	10.6	13.3	95	-	-	14	170.53	200	208/3/60	10	7.67	5000	180x90x72	TRAN

PACKAGED ROOFTOP UNIT SCHEDULE NOTES:

PROVIDE SINGLE ZONE VARIABLE AIR VOLUME (SZVAV) CONTROL AND VARIABLE SPEED COMPRESSORS (TRANE eFLEX OR EQUAL).

PROVIDE LOW LEAKAGE REFERENCE OR COMPARATIVE ENTHALPY ECONOMIZER WITH FAULT DETECTION DIAGNOSIS AND BAROMETRIC RELIEF DAMPER. PROVIDE CO2 BASED DEMAND CONTROLLED VENTILATION WITH FIELD INSTALLED, WALL MOUNTED CO2 SENSORS. SEE SPEC 237313, 2.20 FOR MORE INFO.

PROVIDE ROOF CURB, 24" HIGH U.O.N. REFER TO DETAIL 6/M502. PROVIDE DISCONNECT SWITCH AND POWERED CONVENIENCE OUTLET.

- PROVIDE WITH MANUFACTURER'S STANDARD STEAM HEATING COIL SECTION. REFER TO THE STEAM COIL SCHEDULE ON THIS DRAWING.
- PROVIDE DUCT SMOKE DETECTORS FOR BOTH THE SUPPLY AND RETURN AIR, SEE GENERAL NOTE #5 ON M-004.

PROVIDE MOTORIZED DAMPERS AT OUTSIDE AND EXHAUST AIR OPENINGS. SEE HVAC NOTE #16 ON M-001.

PROVIDE FREEZESTAT FOR FROST PROTECTION. FOR OTHER REQUIRED SENSORS AND CONTROLS, SEE DRAWING M-004, SPEC 230993 AND 237313.

10. PROVIDE UNIT MOUNTED DISCONNECT SWITCH WITH VFD, SEE DRAWING M-004. 11. PROVIDE ENERGY RECOVERY VENTILATOR(ENERGY WHEEL) FOR RTU-2, AUDITORIUM.

VRF HEA	T RECOVE	ERY BRANCH CIF	RCUIT C	ONTRO	OLLER S	CHEDULE				
T			Type (double /	Number	Connected		Power Cooling	Power Heating		Notes (
l ag Reference	System Tag	Model Number	Sub)	of Ports	BC	Voltage / Phase	(kW)	(kW)	208/230	Options
BC-1	CU-1	TCMBM0108JA11N4	Main	8	160,000.0	208/230V/1-phase	0.137/0.176	0.076/0.098	0.83/0.97	1, 2, 3, 4
BC-2	CU-2	TCMBM0108JA11N4	Main	8	150,000.0	208/230V/1-phase	0.137/0.176	0.076/0.098	0.83/0.97	1, 2, 3, 4
BC-3	CU-3	TCMBM0108JA11N4	Main	8	164,000.0	208/230V/1-phase	0.137/0.176	0.076/0.098	0.83/0.97	1, 2, 3, 4
BC-4	CU-4	TCMBM0108.IA11N4	Main	8	156.000.0	208/230V/1-phase	0 137/0 176	0 076/0 098	0 83/0 97	1. 2. 3. 4
BC-5	CU-5	TCMBM0108.IA11N4	Main	8	148.000.0	208/230V/1-phase	0 137/0 176	0.076/0.098	0.83/0.97	1. 2. 3. 4
BC-6	CU-6	TCMBM0108 [A11N4	Main	8	132,000.0	208/230V/1-phase	0 137/0 176	0.076/0.098	0.83/0.97	1, 2, 3, 4
BC-7			Main	8	92 000 0	208/230V/1-phase	0 137/0 176	0.076/0.098	0.83/0.97	1 2 3 4
<u>BO-1</u>			Main	0	140,000,0	208/230\//1 phase	0.107/0.170	0.070/0.030	0.00/0.07	1 2 2 4
BC-8 BC-9	CU-8 CU-9	TCMBM0108JA11N4	Main	16	169,000.0	208/230V/1-phase	0.137/0.176	0.137/0.176	1.57/1.82	1, 2, 3, 4
BC-10	CU-10	TCMBM0108JA11N4	Main	8	158,000.0	208/230V/1-phase	0.137/0.176	0.076/0.098	0.83/0.97	1, 2, 3, 4
BC-11	CU-11	TCMBM0108JA11N4	Main	8	102,000.0	208/230V/1-phase	0.137/0.176	0.076/0.098	0.83/0.97	1, 2, 3, 4
BC-12	CU-12	TCMBM0108JA11N4	Main	8	150,000.0	208/230V/1-phase	0.137/0.176	0.076/0.098	0.83/0.97	1, 2, 3, 4

BC CONTROLLER SCHEDULE NOTES:

1. INCLUDE DIAMONDBACK BALL VALVES BV-SERIES, 700PSIG WORKING PRESSURE, FULL PORT, 410A RATED. 2. A SUB BC CONTROLLER IS NOT REQUIRED FOR THIS PROJECT. FOR SUB BC CONTROLLER INFO, SEE

MANUFACTURER'S INSTALLATION INSTRUCTIONS. 3. PROVIDE REFRIGERATION BALL VALVE-BRAZE/SCHRADER/INSULATED - 3/8" SIZE

4. PROVIDE REFRIGERATION BALL VALVE-BRAZE/SCHRADER/INSULATED - 5/8" SIZE

5. ACCEPTABLE MANUFACTURER'S ARE DAIKIN OR TRANE

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i	
	STEAM HEATING
	UNIT SERVED
	LOCATION
	BTU/HR
	STEAM FLOW RATE (LB/H)
	AIRFLOW (CFM)
	ENTERING AIR TEMP (F)
	LEAVING AIR TEMP (F)
	ENTERING STEAM PRESSURE (PSIG)
	STEAM PRESSURE DROP (PSIG)
	AIRSIDE PRESSURE DROP (IN WC)
	NOMINAL TUBE DIAMETER (IN)
	TUBE THICKNESS (IN)
	REMARKS: 1. PROVIDE STEAM DISTRIBUTING 2. THIS COIL SHALL BE A STAND MANUFACTURER AND SHALL BE SECTION BEEED TO THE BOOM
	3. ALTERNATE 5 UNITS LABELED SHIPPED LOOSE AND FIELD IN
X	······
	ACCEPTABLE MANUFACTUR



					NOT TO FULL SCALE
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Drawing Title				Drawn by	
		UNIVENT REPLACEMENT	Mechanical DEDEDEENIMAN	MM	
			& Electrical FEUENSEIN, INC	Checked by	
			Erigineer: MONTEBELLO, NY 10901	Е Д Т	4 7 02-17-22 ADDENDUM 7
		HAVERSTRAW		Project No.	6 01-28-21 ADDENDUM 5
Drawing No.		ELEMENTARY	I	0+0-+	3 12-17-21 ISSUED FOR BID
	MICHAEL SHILALE ARCHITECTS, L.L.P.	SED# 50-02-01-06-0-009-018	Structural –	Scale AS NOTED	2 11-19-21 SED ADDENDUM 1
N-OO-M	140 Park Avenue New City, NY 10956 Tel 845-708-9200		Engineer:	Date	1 08-30-21 BIDDING DOCUMENTS
	www.shilale.com	16 Grant Street Haverstraw, NY 10927 COUNTY OF ROCKLAND		08-30-21	No. Date Revisions

	1				1		VRF HEA			R UNIT SCHEDULE								
Tag Reference	Related System	Room Name	Model	Туре	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Design Entering Temp DB/WB (°F)	Heating Design Entering Temp DB/WB (°F)	Cooling Total Capacity (BTU/h)	Cooling Sensible Capacity (BTU/h)	Heating Capacity (BTU/h)	Estimated Cooling Coil LAT (°F)	Estimated Heating Coil LAT (°F)	Refrig Pipe Dim Liquid/Suction (inch)	Voltage / Phase	Power 208V Cooling/Heatinç (kW)	9 Electrical MCA/MFS	Not
UV-101	CU-1	CR 101	30000 Btu/h LEV Kit	LEV KIT	30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	21,809.8	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-102	CU-1	CR 102	30000 Btu/h LEV Kit	LEV KIT	30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	21,809.8	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-103	CU-1	CR 103	30000 Btu/h LEV Kit		30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	21,809.8	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-104		CR 104	30000 Btu/h LEV Kit	Ceiling-Cassette (Four-Way)	5 000 0	5 600 0	78.0/67.9	72.0	5.026.2	3 757 3	3 592 2	78.0	/2.0	3/8 / 5/8	208/230V/1-phase		/16	1, 2, 3,
AC-1A	CU-1	Kitchenette 105	TPLFYP005FM140A	Ceiling-Cassette (Four-Way)	5,000.0	5,600.0	78.0/67.9	72.0	5,026.2	3,757.3	3,592.2	65.4	83.9	1/4 / 1/2	208/230V/1-phase	0.02 / 0.02	0.24/15	1, 2, 3,
UV-106	CU-1	CR 106	30000 Btu/h LEV Kit		30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	21,809.8	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-201	CU-2	CR 201	30000 Btu/h LEV Kit	LEV KIT	30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	23,416.3	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-202	CU-2	CR 202	30000 Btu/h LEV Kit	LEV KIT	30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	23,416.3	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-203	CU-2	CR 203	30000 Btu/h LEV Kit	LEV KIT	30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	23,416.3	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-204	CU-2	CR 204	30000 Btu/h LEV Kit	LEV KIT	30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	23,416.3	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-205	CU-2	CR 205	30000 Btu/h LEV Kit		30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coll	23,416.3	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-302	CU-3	CR 301	30000 Btu/h LEV Kit		30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	21,619.9	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012/0.012	/16	1, 2, 3,
UV-303	CU-3	CR 303	36000 Btu/h LEV Kit	LEV KIT	36,000.0	40,000.0	78.0/67.9	72.0	36,188.6	Dependent on 3rd Party Coil	25,435.1	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-304	CU-3	CR 304	30000 Btu/h LEV Kit	LEV KIT	30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	21,619.9	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
AC-3A	CU-3	CR 305	TPEFYP008MA143A	Ceiling-Concealed (Ducted)	8,000.0	9,000.0	78.0/67.9	72.0	8,041.9	5,558.7	5,722.9	60.6	89.8	1/4 / 1/2	208/230V/1-phase	0.06 / 0.04	1.05/15	1, 2, 3,
UV-306	CU-3	CR 306	30000 Btu/h LEV Kit	LEV KIT	30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	21,619.9	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
AC-4A	CU-4	Main Office 105A	TPEFYP008MA143A	Ceiling-Concealed (Ducted)	8,000.0	9,000.0	78.0/67.9	72.0	8,041.9	5,558.7	5,939.3	60.6	90.4	1/4 / 1/2	208/230V/1-phase	0.06 / 0.04	1.05/15	1, 2, 3,
AC-4B	CU-4	Conference 105C		Ceiling-Concealed (Ducted)	8,000.0	6,700.0 9,000.0	78.0/67.9	72.0	6,031.4 8.041.9	4,892.2	4,421.5	78.0	85.7	1/4 / 1/2	208/230V/1-phase	0.06 / 0.04	1.05/15	1, 2, 3,
UV-206	CU-4	CR 206	30000 Btu/h LEV Kit		30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	21,619.9	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-207	CU-4	CR 207	30000 Btu/h LEV Kit	LEV KIT	30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	22,437.3	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-208	CU-4	CR 208	30000 Btu/h LEV Kit	LEV KIT	30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	22,437.3	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-307	CU-4	CR 307	36000 Btu/h LEV Kit	LEV KIT	36,000.0	40,000.0	78.0/67.9	72.0	36,188.6	Dependent on 3rd Party Coil	26,396.8	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
AC-4D	CU-4	CR 309	TPEFYP008MA143A	Ceiling-Concealed (Ducted)	8,000.0	9,000.0	78.0/67.9	72.0	8,041.9	5,558.7	5,939.3	60.6	90.4	1/4 / 1/2	208/230V/1-phase	0.06 / 0.04	1.05/15	1, 2, 3,
UV-186	CU-5	Music 186	30000 Btu/h LEV Kit		30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	23,116.6	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
AC-5C	CU-5	Music 185	30000 Btu/b L EV/ Kit	Multi-Position Air Handler	30,000,0	34 000 0	78.0/67.9	72.0	30 157 2	Dependent on 3rd Party Coil	23 116 6	78.0	93.6	3/8 / 5/8	208/230V/1-phase		3.0/15	1, 2, 3,
UV-195A	CU-5	Home Ec 195A	30000 Btu/h LEV Kit		30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	23,116.6	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
AC-5A	CU-5	Office 220A	TPLFYP005FM140A	Ceiling-Cassette (Four-Way)	5,000.0	5,600.0	78.0/67.9	72.0	5,026.2	3,757.3	3,807.4	65.4	84.7	1/4 / 1/2	208/230V/1-phase	0.02 / 0.02	0.24/15	1, 2, 3,
AC-5B	CU-5	Office 220B	TPLFYP005FM140A	Ceiling-Cassette (Four-Way)	5,000.0	5,600.0	78.0/67.9	72.0	5,026.2	3,757.3	3,807.4	65.4	84.7	1/4 / 1/2	208/230V/1-phase	0.02 / 0.02	0.24/15	1, 2, 3,
UV-105B	CU-5	Conference 105B	30000 Btu/h LEV Kit	LEV KIT	30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	23,116.6	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-180A-1	CU-6	Room 180A	36000 Btu/h LEV Kit	LEV KIT	36,000.0	40,000.0	78.0/67.9	72.0	36,188.6	Dependent on 3rd Party Coil	27,023.6	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-180A-2	CU-6	Room 180A	36000 Btu/h LEV Kit		36,000.0	40,000.0	78.0/67.9	72.0	36,188.6	Dependent on 3rd Party Coil	27,023.6	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-175	CU-6	Room 175	36000 Btu/h LEV Kit		36.000.0	40.000.0	78.0/67.9	72.0	36.188.6	Dependent on 3rd Party Coil	32.571.1	78.0	72.0	3/8 / 3/4	208/230V/1-phase		/16	1, 2, 3,
UV-222	CU-7	Locker Rm 222	36000 Btu/h LEV Kit	LEV KIT	36,000.0	40,000.0	78.0/67.9	72.0	36,188.6	Dependent on 3rd Party Coil	32,571.1	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
AC-7A	CU-7	Office 222C	TPLFYP005FM140A	Ceiling-Cassette (Four-Way)	5,000.0	5,600.0	78.0/67.9	72.0	5,026.2	3,757.3	4,560.0	65.4	87.2	1/4 / 1/2	208/230V/1-phase	0.02 / 0.02	0.24/15	1, 2, 3,
AC-7B	CU-7	Office 222B	TPLFYP005FM140A	Ceiling-Cassette (Four-Way)	5,000.0	5,600.0	78.0/67.9	72.0	5,026.2	3,757.3	4,560.0	65.4	87.2	1/4 / 1/2	208/230V/1-phase	0.02 / 0.02	0.24/15	1, 2, 3,
AC-7C	CU-7	Office 221B	TPLFYP005FM140A	Ceiling-Cassette (Four-Way)	5,000.0	5,600.0	78.0/67.9	72.0	5,026.2	3,757.3	4,560.0	65.4	87.2	1/4 / 1/2	208/230V/1-phase	0.02 / 0.02	0.24/15	1, 2, 3,
AC-7D	CU-7	Office 221C	TPLFYP005FM140A		5,000.0	5,600.0	78.0/67.9	72.0	5,026.2	3,757.3	4,560.0	65.4	87.2	1/4 / 1/2	208/230V/1-phase	0.02/0.02	0.24/15	1, 2, 3,
UV-207-1	CU-8	Library 207	36000 Btu/h LEV Kit		36.000.0	40,000.0	78.0/67.9	72.0	36,188.6	Dependent on 3rd Party Coil	25,745.5	78.0	72.0	3/8 / 5/8	208/230V/1-phase		/16	1, 2, 3,
UV-311	CU-8	Science 311	60000 Btu/h LEV Kit	LEV KIT	60,000.0	66,000.0	78.0/67.9	72.0	60,314.4	Dependent on 3rd Party Coil	42,480.1	78.0	72.0	3/8 / 3/4	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
AC-8A	CU-8	Office 209A	TPEFYP008MA143A	Ceiling-Concealed (Ducted)	8,000.0	9,000.0	78.0/67.9	72.0	8,041.9	5,558.7	5,792.7	60.6	90.0	1/4 / 1/2	208/230V/1-phase	0.06 / 0.04	1.05/15	1, 2, 3,
AC-9A	CU-9	Office 107B	TPEFYP006MA143A	Ceiling-Concealed (Ducted)	6,000.0	6,700.0	78.0/67.9	72.0	5,598.1	4,738.6	4,071.2	63.1	84.6	1/4 / 1/2	208/230V/1-phase	0.06 / 0.04	1.05/15	1, 2, 3,
AC-9B	CU-9	Office 107F	TPEFYP006MA143A	Ceiling-Concealed (Ducted)	6,000.0	6,700.0	78.0/67.9	72.0	5,598.1	4,738.6	4,071.2	63.1	84.6	1/4 / 1/2	208/230V/1-phase	0.06 / 0.04	1.05/15	1, 2, 3,
AC-9C	CU-9	Office 107D	TPEFYP006MA143A	Ceiling-Concealed (Ducted)	6,000.0	6,700.0	78.0/67.9	72.0	5,598.1	4,738.6	4,071.2	63.1	84.6	1/4 / 1/2	208/230V/1-phase	0.06 / 0.04	1.05/15	1, 2, 3,
AC-9E	CU-9	Office 107E		Ceiling-Concealed (Ducted)	6,000.0	6,700.0	78.0/67.9	72.0	5,598.1	4,738.6	4,071.2	63.1	84.6	1/4 / 1/2	208/230V/1-phase	0.06 / 0.04	1.05/15	1, 2, 3,
AC-91	CU-9 CU-9	Office 108E	TPLFYP005FM140A	Ceiling-Cassette (Four-Way)	5,000.0	5,600.0	78.0/67.9	72.0	4,665.1	3,626.6	3,402.8	65.8	83.3	1/4 / 1/2	208/230V/1-phase	0.02/0.02	0.24/15	1, 2, 3,
AC-9G	CU-9	Office 108C	TPLFYP005FM140A	Ceiling-Cassette (Four-Way)	5,000.0	5,600.0	78.0/67.9	72.0	4,665.1	3,626.6	3,402.8	65.8	83.3	1/4 / 1/2	208/230V/1-phase	0.02 / 0.02	0.24/15	1, 2, 3,
AC-9H	CU-9	Office 108D	TPLFYP005FM140A	Ceiling-Cassette (Four-Way)	5,000.0	5,600.0	78.0/67.9	72.0	4,665.1	3,626.6	3,402.8	65.8	83.3	1/4 / 1/2	208/230V/1-phase	0.02 / 0.02	0.24/15	1, 2, 3,
UV-107	CU-9	CR 107	30000 Btu/h LEV Kit	LEV KIT	30,000.0	34,000.0	78.0/67.9	72.0	27,990.5	Dependent on 3rd Party Coil	20,659.7	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-109	CU-9	CR 109	30000 Btu/h LEV Kit		30,000.0	34,000.0	78.0/67.9	72.0	27,990.5	Dependent on 3rd Party Coil	20,659.7	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-111		CR 111	30000 Btu/h LEV Kit	LEV KIT	5 000 0	34,000.0	78.0/67.9	72.0	27,990.5		3 402 8	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-110	CU-9	CR 110-Art	30000 Btu/h LEV Kit		30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	22,120.5	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.02 / 0.02	/16	1, 2, 3,
UV-209	CU-10	CR 209	30000 Btu/h LEV Kit	LEV KIT	30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	22,120.5	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-210	CU-10	CR 210	30000 Btu/h LEV Kit	LEV KIT	30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	22,120.5	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
AC-10A	CU-10	CR 211	TPEFYP008MA143A	Ceiling-Concealed (Ducted)	8,000.0	9,000.0	78.0/67.9	72.0	8,041.9	5,558.7	5,855.4	60.6	90.2	1/4 / 1/2	208/230V/1-phase	0.06 / 0.04	1.05/15	1, 2, 3,
UV-213	CU-10	CR 213	30000 Btu/h LEV Kit		30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	22,120.5	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-215	CU-10	CR 215	30000 Btu/h LEV Kit		30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coll	22,120.5	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
AC-11A	CU-10 CU-11	Resource 317		Ceiling-Concealed (Ducted)	6,000.0	6,700.0	78.0/67.9	72.0	6.031.4	4,892.2	5,936.4	62.7	90.4	3/0 / 5/8 1/4 / 1/2	208/230V/1-phase	0.012/0.012	1.05/15	1, 2, 3,
UV-313	CU-11	CR 313 - Science	60000 Btu/h I FV Kit	LEV KIT	60,000.0	66,000.0	78.0/67.9	72.0	60,314.4	Dependent on 3rd Party Coil	58,477.7	78.0	72.0	3/8 / 3/4	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-310	CU-11	CR 310	30000 Btu/h LEV Kit	LEV KIT	30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	30,124.9	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
AC-11B	CU-11	Prep 311B	TPEFYP006MA143A	Ceiling-Concealed (Ducted)	6,000.0	6,700.0	78.0/67.9	72.0	6,031.4	4,892.2	5,936.4	62.7	90.4	1/4 / 1/2	208/230V/1-phase	0.06 / 0.04	1.05/15	1, 2, 3,
UV-314	CU-12	CR 314	30000 Btu/h LEV Kit	LEV KIT	30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	23,492.8	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-321	CU-12	CR 321	30000 Btu/h LEV Kit	LEV KIT	30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	23,492.8	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-319	CU-12	CR 319	30000 Btu/h LEV Kit	LEV KIT	30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	23,492.8	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-312	CU-12	CR 312	30000 Btu/h LEV Kit	LEV KIT	30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	23,492.8	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,
UV-216	CU-12	CR 216	30000 Btu/h LEV Kit	LEV KIT	30,000.0	34,000.0	78.0/67.9	72.0	30,157.2	Dependent on 3rd Party Coil	23,492.8	78.0	72.0	3/8 / 5/8	208/230V/1-phase	0.012 / 0.012	/16	1, 2, 3,



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16 Ha



VENTILATION	POINTS LIST NOTES:			
	X = PROVIDE QUANTITY AS REQUIRED TO INCLUDE ALL INSTANCES OF THE INDICATED FEATURE. INCLUDE		"SZVAV AIR HANDLING UNIT"	
RK CONNECTION LOW HIGH	B = INFORMATION PROVIDED TO EACH SYSTEM VIA NETWORK BROADCAST. NVO = NETWORK VARIABLE OUTPUT, NVI = NETWORK VARIABLE INPUT KEY NOTES:	Reference No.	Point Name	Analog Input
WITCH/INDICATOR	THIS FOULPMENT. THIS POINT LIST IS TYPICAL FOR FACH MECHANICAL /FLECTRICAL SYSTEM OF THIS TYPE.	1	Outside Air Temp	х
IENT SYSTEM	IF THE SEQUENCE OF OPERATION REQUIRES ADDITIONAL OR DIFFERING INFORMATION, IT MUST BE	2	Outside Air CO2	x
RANT FLOW	PROVIDED BY THE RESPECTIVE PROVIDER OF THE CONTROLS FOR THIS TYPE OF EQUIPMENT AS COORDINATED BY THE GENERAL AND MECHANICAL CONTRACTORS.	3	Supply Airflow	x
RN	② THE TCC SHALL PROVIDE ALL DIGITAL ALARM LOGIC. ALL DIGITAL ALARMS SHALL BE COMPATIBLE WITH THE EXISTING SIEMENS BMS SYSTEM	4	Exhaust/Return Airflow	x
ICATION INTERFACE	(3) THE TCC SHALL PROVIDE ALL TRENDING AND ANALOG ALARMING VIA THE SOFTWARE USED AT THE	5	Supply Air Enthalpy Wheel Discharge Temp	x
JS	EXISTING SIEMENS BMS SYSTEM. (4) PROVIDE ACCUMULATED AIR FLOW FOR VALIDATION OF PURGE-MODE AND FOR PERMANENT VALIDATION OF	6	Supply Air Temp Heating Setpoint (Leaving The Wheel)	
	OCCUPANT VENTILATION.	7	Heating Coil Discharge Air Temp	x
	(5) PROVIDE MANUAL RESET DEVICE. NOTE THAT THIS DEVICE BOTH ALARMS IN THE BMS AND IS HARDWIRED	8	Cooling Coil Discharge Air Temp	x
	6 PROVIDE THE ALARM WHEN AT THE CALCULATED DIFFERENTIAL BETWEEN OUTSIDE AIR AND SPACE AIR	9	Supply Air Temp	x
	CO2 VALUE IS 1000 ppm.	10	Exhaust/Return Air Temp	x
	(/) PROVIDE LON COMMUNICATION CONNECTION TO THIS DEVICE MAPPING ALL REQUIRED POINTS INTO THE	11	Room Temp	х
		12	Room CO2	х
		13	Differential CO2 (Calculated)	
		14	SF High Static Pressure	
		15	EF/RF Low Suction Pressure	









UNIT VE	NTILATC	R SCHED	ULE																		SEE SCHEDULE	NOTES 14, 15, 16 FOR AL	
		TOTAL SUPPLY	MINIMUM OU ⁻ (C	TSIDE AIRFLOW FM)	MAXIMUM OUTSIDE			COC	DLING				ł	HEATING		FILTER		ELECT	RICAL	UNIT WEIGHT	UNIT DIMENSIONS		
UNIT TAG	LOCATION	(CFM)	COOLING	HEATING	AIRFLOW (CFM)	EADB (°F)	EAWB (°F)	LADB (°F)	LADB (°F)	MIN. SENSIBLE CAPACITY (BTU/H)	MIN. TOTAL CAPACITY (BTU/H)	EADB (°F)	LADB (°F)	STEAM PRESSURE (PSIG)	REQUIRED TOTAL CAPACITY (BTU/H)	MERV	MCA	MAX FUSE SIZE	VOLT/PH/HZ	(LBS)	(LxDxH, IN) (V.I.F.)	BASIS OF DESIGN	REMARKS
UV-101	101	750	400	400	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
UV-102	102	750	400	400	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
UV-103	103	750	400	400	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
UV-104	104	750	375	375	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
UV-105B	105	750	375	375	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10,11
UV-106	106	750	375	375	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
UV-107	107	750	400	400	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
UV-109	109	750	400	400	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
UV-110	110	750	475	475	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
UV-111	111	750	400	400	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
UV-175	175	1500	850	850	1500	80.0	67.0	55.4	52.2	30,890	51,010	12.0	116.3	2.0	129,700	13	9.0	15	115/1/60	470	105x21.25x30	TRANE VUVE1500	SEE NOTES 1-10
UV-180A-1	180A	1000	525	525	1000	80.0	67.0	54.7	51.8	21,720	35,670	12.0	124.2	2.0	106,950	13	4.5	15	120/1/60	375	82.25x35.6x16.6	TRANE HUVC1001	SEE NOTES 1-10,12
UV-180A-2	180A	1000	525	525	1000	80.0	67.0	54.7	51.8	21,720	35,670	12.0	124.2	2.0	106,950	13	4.5	15	120/1/60	375	82.25x35.6x16.6	TRANE HUVC1001	SEE NOTES 1-10,12
UV-186	186	1000	500	500	1000	80.0	67.0	54.7	51.8	21,720	35,670	12.0	112.5	2.0	85,380	13	4.5	15	115/1/60	405	81x21.25x30	TRANE VUVE1000	SEE NOTES 1-10,11
UV-190	190	750	365	365	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
UV-195A	195A	750	435	435	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
UV-201	201	750	400	400	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
UV-202	202	750	400	400	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
UV-203	203	750	400	400	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
UV-204	204	750	300	300	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
UV-205	205	750	375	375	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
UV-206	206	750	250	250	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
UV-207	207	750	375	375	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
UV-208	208	750	250	250	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
UV-207A-1	207A	1000	500	500	1000	80.0	67.0	54./	51.8	21,720	35,670	12.0	112.5	2.0	85,380	13	4.5	15	115/1/60	405	81x21.25x30	TRANE VUVE1000	SEE NOTES 1-10,11
UV-207A-2	207A	1000	500	500	1000	80.0	67.0	54.7	51.8	21,720	35,670	12.0	112.5	2.0	85,380	13	4.5	15	115/1/60	405	81x21.25x30	TRANE VUVE1000	
07-209	209	750	375	3/5	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1 10
00-210	210	750	400	400	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.6	2.0	63,200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
00-213	213	750	400	400	750	80.0	67.0	54.7	52.4	17,010	28,250	12.0	102.0	2.0	63 200	17	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	
00-214	214	750	400	400	750	80.0	67.0	54.7	52.4	17,010	28,250	12.0	102.0	2.0	63 200	17	4.3	15	115/1/60	320	69x21.25x30		
00-215	213	750	400	400	750	80.0	67.0	54.7	52.4	17,010	28,250	12.0	102.0	2.0	63 200	17	4.5	15	115/1/60	320	69x21.25x30		
	210	1000	100	100	1000	80.0	67.0	54.7	51.8	21 720	35.670	12.0	112.0	2.0	85 380	13	4.5	15	115/1/60	405	81x21.25x30		SEE NOTES 1-10
UV-222	221	1000	100	100	1000	80.0	67.0	54.7	51.8	21,720	35,670	12.0	112.5	2.0	85 380	13	4.5	15	115/1/60	405	81x21.25x30		SEE NOTES 1-10
UV-222	301	750	400	400	750	80.0	67.0	54.7	52.4	17 810	28 250	12.0	102.6	2.0	63 200	13	4.5	15	115/1/60	320	69×21.25×30		SEE NOTES 1-10
UV-302	301	750	375	375	750	80.0	67.0	54.7	52.4	17,810	28,250	12.0	102.0	2.0	63 200	13	4.5	15	115/1/60	320	69×21.25×30		SEE NOTES 1-10
UV-303	302	1000	475	475	1000	80.0	67.0	54.7	51.8	21 720	35.670	12.0	112.0	2.0	85 380	13	4.5	15	115/1/60	405	81x21.25x30	TRANE VUVE1000	SEE NOTES 1-10
UV-304	303	750	350	350	750	80.0	67.0	54.7	52.4	17 810	28 250	12.0	102.6	2.0	63 200	13	4.5	15	115/1/60	320	69×21.25×30		SEE NOTES 1-10
111/-306	304	1000	500	500	1000	80.0	67.0	5 <u>4</u> 7	51.9	21 720	35 670	12.0	112.0	2.0	85 380	13	1.J 4.5	15	115/1/60	405	81v21 25v30		SFE NOTES 1_10
11V_307	300	1000	400	400	1000	80.0	67.0	5 <u>4</u> 7	51.0	21,720	35 670	12.0	112.5	2.0	85,380	13	4.5	15	115/1/60	405	81v21 25v30		SFE NOTES 1_10
	310	750	400	400	750	80.0	67.0	54.7	57 4	17 810	28 250	12.0	102.5	2.0	6.3 200	13	J 4 5	15	115/1/60	320	105x21.20x00	TRANE VUIVE1500	SFF NOTES 1_10
UV311		1500	625	625	1500	80.0	67.0	55.4	52.1	30.890	51.010	12.0	116.3	2.0	129.700	1.3	9.0	15	115/1/60	470	105x21.25x30	TRANE VUVE1500	SEE NOTES 1-10
UV-312	312	750	400	400	750	80.0	67.0	54 7	52.2	17.810	28.250	12.0	102.6	2.0	63.200	1.3	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVE0750	SEE NOTES 1-10
UV-313	31.3	1500	575	575	1500	80.0	67.0	55.4	52.2	30.890	51.010	12.0	116.3	2.0	129.700	1.3	9.0	15	115/1/60	470	105x21.25x30	TRANE VUVF1500	SEE NOTES 1-10
UV-314	314	750	400	400	750	80.0	67.0	54.7	52.4	17.810	28.250	12.0	102.6	2.0	63.200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVF0750	SEE NOTES 1-10
UV-319	319	750	400	400	750	80.0	67.0	54.7	52.4	17.810	28.250	12.0	102.6	2.0	63.200	13	4.5	15	115/1/60	320	69x21.25x30	TRANE VUVF0750	SEE NOTES 1-10
UV321	.321	750	400	400	750	80.0	67.0	54 7	52.4	17.810	28.250	12.0	102.6	2.0	63.200	1.3	4.5	15	115/1/60	.320	69x21.25x30	TRANE VUVE0750	SFE NOTES 1-10
	021	,			,		07.0						102.0	2.0									

UNIT VENTILATOR SCHEDULE NOTES:

. PROVIDE VARIABLE VOLUME SPEED CONTROL ECM MOTORS. MOTOR CONTROL TO BE FIELD INSTALLED.

2. PROVIDE LOW LEAKAGE OUTSIDE AIR DAMPER, CLASS 1 MOTORIZED DAMPERS, LOW LEAKAGE TYPE FOR OUTSIDE AIR AND EXHAUST OPENINGS. AIR LEAKAGE SHALL NOT BE GREATER THAN 4CFM/FT² AND BE IN ACCORDANCE WITH AMCA 500D.

3. PROVIDE FIXED DRY-BULB ECONOMIZER WITH FAULT DETECTION DIAGNOSIS.

4. PROVIDE DISCONNECT SWITCH.

5. CONTRACTOR TO VERIFY STEAM HEAT COIL PIPING CONNECTIONS AND NEW DX COIL PIPING CONNECTIONS PRIOR TO ORDERING. STEAM HEAT COILS SHALL MATCH EXISTING LOCATIONS. TYPICAL LOCATIONS ARE AS FOLLOWS: ELECTRICAL – LH SIDE, STEAM – RH SIDE, DX – RH SIDE.

6. AT COMPLETION OF UV INSTALLATION, CONTRACTOR SHALL INSTALL MERV-13 FILTERS FURNISHED BY THE UNIT MANUFACTURER.

- 7. PROVIDE MODULATING TWO-WAY STEAM CONTROL VALVE.
- 8. CABINET COLOR TO BE OF DELUXE BEIGE FINISH U.O.N. BY ARCHITECT AND/OR FACILITIES.

 PROVIDE HEAVY GAUGE FRONT PANEL AND CUT-TO-FIT FILLER PANELS ON BOTH SIDES OF THE UNIT VENTILATOR TO MATCH THE INSTALLED WIDTH OF THE EXISTING UNITS AND ENCLOSE EXISTING PIPING.
 PROVIDE FIELD INSTALLED DDC CONTROLS TO SATISFY SEQUENCE OF OPERATIONS, COORDINATE/INTEGRATE WITH EXISTING SIEMENS BMS. SEE DRAWING M004 FOR MORE INFO. PROVIDE LEV KIT AS PER INDOOR UNIT SCHEDULE, SEE DRAWING M003.

- 11. PROVIDE WITH NO ENCLOSURE/END COVERS FOR INSTALLATION BEHIND EXISTING CABINETRY ENCLOSURE.
- 12. PROVIDE ALL REQUIRED SUPPÓRTS FOR CEILING MOUNT HORIZONTAL UNIT.
- AT ALL UNIT VENTILATORS, CONTRACTOR IS RESPONSIBLE TO REMOVE FACTORY INSTALLED STANDARD DX CONTROL VALVE FOR FIELD INSTALLATION OF LEV DX VALVE, REFER TO MANUFACTURER REPRESENTATIVE FOR PROPER INSTALLATION.
 DUE TO THE LEAD TIME GLOBAL CHIP SHORTAGE CRISIS. CONTROLLERS ARE TO BE SHIPPED SEPARATELY FOR FIELD INSTALLATION, TYP. ALL NEW

15. PROVIDE HUMIDITY SENSOR TO MEASURE HUMIDITY LEVELS & CO2 DEVICE TO CONTROL OUTSIDE AIR FOR EACH UV, SEE CONTROLS DRAWING M-004.
16. ACCEPTABLE MANUFACTURER'S: DAIKIN OR TRANE.

 $\sum_{\underline{\mathbb{Z}}}$

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Drawing Title			GREENN	AAN	Drawn by WM	
UV Schedule		UNIVENT REFLACEMENT AT	Mechanical REDERS & Electrical 400 RELLA BO Engineer: MONTEBELLO, 1	SEN, INC	Checked by ERF	
		HAVERSTRAW			Project No.	6 011-2&-22 ADDENDUM 3
Drawing No.		ELEMENTARY	1		4-040	3 12-17-21 ISSUED FOR BID
	MICHAEL SHILALE ARCHITECTS, L.L.P.	SED# 50-02-01-06-0-009-018	Structural –		AS NOTED	2 11-19-21 SED ADDENDUM 1
000-M	140 Park Avenue New City, NY 10956 Tel 845-708-9200		Engineer:		Date	1 08-30-21 BIDDING DOCUMENTS
	www.shilale.com	16 Grant Street Haverstraw, NY 10927 COUNTY OF ROCKLAND			08-30-21	No. Date Revisions

	IS	
IF THIS BAR DOES NOT	MEASURE 1" THEN DRAWING	NOT TO FULL SCALE

THIR	D	FI	
SCALE:	1/1	6" :	_

_	SHALL BE LIMITED TO 3'-O" MAX. BASIS OF DESIGN, FOR CEILING: TITUS TMS OR EQUAL, FOR SIDE: TITUS 300/350 OR EQUAL.
0	PROVIDE 24x24 RETURN GRILLE IN EXISTING LAY-IN ACOUSTIC CEILING OR NEW SOFFIT. BASIS OF DESIGN: TITUS 45F OR EQUAL.
1>	THE EXISTING DOOR UNDERCUT IS SUFFICIENT FOR AIR TRANSFER TO THE ADJACENT SPACE.
2>	PROVIDE NEW DOOR UNDERCUT IN SPACE FOR SUFFICIENT AIR TRANSFER OF RELIEF AIR, SEE ARCHITECT DRAWINGS.
3>	FURNISH AND INSTALL NEW WALL MOUNT CARBON DIOXIDE SENSOR FOR NEW RTU. REFER TO DRAWING M-004 FOR CONTROL DIAGRAM. MOUNT THE SENSOR ON INSIDE WALL OR PANEL APPROXIMATELY 54" ABOVE THE FLOOR (OR OTHERWISE DIRECTED) TO ALLOW EXPOSURE TO THE AVERAGE ZONE TEMPERATURE. FOR ACCURATE TEMPERATURE SENSING DO NOT MOUNT DEVICE ON OUTSIDE WALL, ADJACENT TO PIPES, IN DIRECT SUNLIGHT, NEAR RADIANT HEAT SOURCES, AIR DUCTS, ETC. THAT COULD IMPACT SENSING ACCURACY. REFER TO MANUFACTURER'S IOM INSTRUCTIONS FOR MORE INFO.
4	PROVIDE NEW NON-FLANGED LOUVER AT EXISTING OPENING. INFILL EXISTING OPENING TO ACCOMMODATE NEW LOUVER. SEE ARCHITECT'S PLANS FOR PATCHING AND REPAIR DETAILS AT BUILDING FACADE.
5>	FURNISH AND INSTALL DUCT SMOKE DETECTOR ON STRAIGHT DUCT, COORDINATE INSTALLATION WITH ELECTRICAL. FURNISH AND INSTALL FIRE SMOKE DAMPER AT ROOF PENETRATION. (TYP. 4).
6) /	CONTRACTOR RESPONSIBLE TO FIELD VERIFY AND MEASURE ROUTING OF NEW DUCTWORK AT STAGE AREA FOR THE NEW RTUS. AVOID ANY CONFLICTS/INTERFERENCE WITH EXISTING CONDITIONS, SUCH AS THE CABLES AND PULLEYS FOR THE STAGE CURTAINS. DUCTWORK SHALL BE ROUTED HIGH AT WALL. SUPPLY DUCTWORK IS TO BE INSULATED. RETURN DUCTWORK TO BE PAINTED BLACK, VERIFY FINISH REQUIREMENTS WITH ARCHITECT.
7	ALTERNATE 5: INSTALL NEW STEAM HEATING COIL, SEE STEAM HEATING COIL SCHEDULE ON M-002. SEE DRAWING M-303 FOR PIPING LOCATION AND DETAIL 3/M501.
	<u>GENERAL NOTE:</u> FOR PIPING LAYOUT FOR EACH NEW EQUIPMENT, REFER TO DRAWINGS M-301, M-302 AND M-303.
	NOTES

(7) FURNISH AND INSTALL NEW PROGRAMMABLE ELECTRONIC THERMOSTAT WITH LOCKING GUARD. INTEGRATE WITH THE $\langle 8 \rangle$ FURNISH AND INSTALL NEW RELIEF AIR LOUVER 24X12 WITH MOTORIZED DAMPER(24x12), PROVIDE NEW OPENING AT INSULATED PANEL. COORDINATE OPENINGS WITH GC, SEE ARCHITECTURAL DETAILS. SEE DETAIL 9/M-501. (9) PROVIDE SUPPLY DIFFUSER WITH VOLUME DAMPER AND ASSOCIATED INSULATED DUCTWORK AS INDICATED. FLEX DUCT

ACCOMMODATE NEW LOUVER. COORDINATE OPENINGS WITH THE ARCHITECT AND GC. FURNISH AND INSTALL OUTSIDE AIR DUCT CONNECTION TO LOUVER WITH VOLUME DAMPER, SEE PLANS FOR DUCT SIZE. (6) EXISTING OUTSIDE AIR WALL LOUVER TO REMAIN. SIZE VARIES PER EACH ROOM. CONNECT OA INTAKE DUCT TO

ON DRAWING M-003 AND DETAILS ON DRAWING M-501. 5 FURNISH AND INSTALL NEW OUTSIDE AIR INTAKE LOUVER AT WINDOW INSULATED PANEL. GC TO PROVIDE OPENING TO

4 FURNISH AND INSTALL NEW EVAPORATOR/AC INDOOR UNIT. REFER TO VRF HEAT RECOVERY INDOOR UNIT SCHEDULE

(1) FURNISH AND INSTALL NEW VERTICAL UNIT VENTILATOR. REFER TO THE UNIT VENTILATOR SCHEDULE ON DRAWING

 $\langle 2 \rangle$ furnish and install new vertical unit ventilator. Utilize existing original built-in cabinetry enclosure.

OUTSIDE AIR DUCT TO EXISTING OUTSIDE AIR OPENING/LOUVER.

EXISTING LOUVER. SEE DETAILS ON DRAWING M-501.

SIEMENS BMS.

REFER TO THE UNIT VENTILATOR SCHEDULE ON DRAWING M-006 AND DETAILS ON DRAWING M-501. CONNECT

M-006 AND DETAILS ON DRAWING M-501. CONNECT OUTSIDE AIR DUCT TO EXISTING OUTSIDE AIR OPENING/LOUVER.

NOTES:

(3) FURNISH AND INSTALL NEW HORIZONTAL UNIT VENTILATOR WITH NEW CEILING SUPPORTS. REFER TO THE UNIT VENTILATOR SCHEDULE ON DRAWING M-006 AND DETAILS ON DRAWING M-501.

TO INSTALLATION OF MECHANICAL EQUIPMENT TO BE PART OF PHASE A.



<u>NOTES:</u> DEMOLISH EXISTING GRAVITY VENTILATOR AND DAMPER AT ROOF. DEMOLISH ASSOCIATED DUCTWORK DIRECTLY BELOW ROOF. DISCONNECT DAMPER FROM SIEMENS BMS CONTROL. $\langle 2 \rangle$ provide New Outdoor Condensing Unit, see Schedule on Drawing M-002. Mount Unit on Modified Roof CURB/DUNNAGE, see Structural Drawings. $\langle 3 \rangle$ PROVIDE NEW DX PIPING FROM BRANCH CONTROLLER, SEE FLOOR BELOW. FOR ROOF CURB AND ROOF SUPPORT DETAIL, SEE DRAWING M-502 AND ARCHITECTURAL DRAWINGS FOR PROPER SEALING FOR PIPE SIZES, SEE DRAWING M-401.
 PROVIDE NEW ROOFTOP AIR HANDLING UNIT AT LOCATION OF EXISTING SKYLIGHT, SEE SCHEDULE ON DRAWING M-002.

 GC TO DEMO EXISTING SKYLIGHT. MOUNT AHUS ON NEW ROOF CURB. PROVIDE ADEQUATE CLEARANCE AS PER
 MANUFACTURER'S IOM. SEE DETAILS FOR MORE INFO. $\overline{5}$ Existing gravity ventilator to remain. Image: 6PROVIDE NEW CONDENSATE DRAINAGE, TERMINATE ON ROOF TO NEAREST DRAIN. PROVIDE SPLASH BLOCK. SEE DETAIL5/M501 FOR SUPPORT OF PIPING ON ROOF.
 (7)
 PROVIDE NEW STEAM AND CONDENSATE PIPING, CONNECT TO EXISTING MAIN. SEE DETAIL 3/M501. PROVIDE FACTORY

 ASSEMBLED PIPE CABINET WITH ROOFTOP AIR HANDLING UNIT. EXTEND BASE FLASHING TO CURB.
 ALTERNATE 5: OMIT INSTALLATION OF NEW STEAM & CONDENSATE PIPING ON ROOF. SEE DRAWING M-303 FOR SCOPE OF WORK. NOTES







NOTES: FURNISH AND INSTALL NEW STEAM PIPING AND INSULATION AT COIL CONNECTIONS AT NEW UNIT VENTILATOR. SEE DETAIL 4/M-501. ALL PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION SHALL BE SLEEVED/FIRESTOPPED, SEE	
DETAILS ON M-502. PROVIDE ADEQUATE SUPPORTS THROUGHOUT, SEE DETAILS ON M-502. (2) FURNISH AND INSTALL NEW DX PIPING WITH INSULATION AT NEW INDOOR UNIT. FOR PIPE SIZES REFER TO DRAWING M-401. ALL PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION SHALL BE SLEEVED/FIRESTOPPED, SEE DETAILS ON M-502 PROVIDE ADEQUATE SUPPORTS THROUGHOUT. SEE DETAILS ON M-502	
$\overline{3}$ FURNISH AND INSTALL LEV KIT FOR NEW UNIT VENTILATOR, SEE VRF INDOOR UNIT SCHEDULE ON DRAWING M-003.	
4FURNISH AND INSTALL NEW BRANCH CIRCUIT CONTROLLER, SEE BC CONTROLLER SCHEDULE ON DRAWING M-002.FURNISH AND INSTALL 3/4" CONDENSATE DRAINAGE PIPING FOR EACH BRANCH CONTROLLER. TERMINATE DRAIN IN AIR GAP AT NEAREST JANITOR SINK. FOLLOW MANUFACTURER'S IOM MANUAL FOR ADDITIONAL INSTRUCTIONS.	
5 FURNISH AND INSTALL ENCLOSURE TO CONCEAL EXPOSED PIPING CONNECTED TO UNIT. SEE ARCH PLANS FOR DETAILS, FINISH AND COLOR. ENCLOSURE SHALL BE REMOVABLE AND CONSTRUCTED OF 24 GA STEEL. ENCLOSURE SHALL BE PAINTED TO MATCH EXISTING FINISHES. VERIFY COLOR FINISH WITH ARCHITECT AND FACILITIES.	
6 FURNISH AND INSTALL NEW STEAM SUPPLY AND RETURN PIPING AND INSULATION AT COIL CONNECTIONS FOR NEW RTU. SEE DETAIL 3/M-501. FIRESTOP ALL RATED PENETRATIONS, SEE DRAWING M-502.	LOW
AT EACH UNIT VENTILATOR, FURNISH AND INSTALL NEW 3/4" CONDENSATE DRAIN FROM DRAIN PAN. TERMINATE AT BUILDING EXTERIOR WALL, SEE DETAIL 1/M501.	ROOF
8 AT EACH EVAPORATOR INDOOR UNIT, FURNISH AND INSTALL NEW 3/4" CONDENSATE DRAIN. TERMINATE DRAIN AT BUILDING EXTERIOR WALL THROUGH INSULATED PANEL BENEATH NEW OUTSIDE AIR LOUVER.	
ALTERNATE #5: PROVIDE NEW STEAM HEATING COIL, SEE STEAM HEATING COIL SCHEDULE ON M-002. SEE DET. 3/M501 FOR PIPING, VALVE AND CONTROL ARRANGEMENTS.	
<u>GENERAL_NOTE:</u>	
FOR APPROXIMATE REFRIGERANT PIPE SIZES AND LENGTHS, SEE VRF PIPING RISERS DRAWING M-401.	
NOTES	
	CLASSROOM
	STAIRWAY
	S.F. 100A
	L CLASSROOM 759 S.F. 301
	L <u>CLASSROOM</u> 759 S.F. 301 (1) 2) 3) 5)
	CLASSROOM 759 S.F. 301 (1)(2)(3)(5) UV-301
	CLASSROOM 759 S.F. 301 (1)(2)(3)(5) UV-301 (7)
	CLASSROOM 759 S.F. 301 (1/2/3/5) UV-301 (7)
	CLASSROOM 759 S.F. 301 (1)(2)(3)(5) UV-301 (7)
	CLASSROOM 759 S.F. 301 (1/2/3/5) UV-301 (7)
	CLASSROOM 759 S.F. 301 (1235) UV-301 7)
	CLASSROOM 759 S.F. 301 (1/2/3/5) UV-301 7 7





IUNL

- 1. REFER TO ADDITIONAL INSTALLATION NOTES ON DRAWING E-001.
- 2. ALL NEW BRANCH CIRCUIT SHALL BE RUN WITH MINIMUM OF 2#12+1#12G IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. FOR LIGHTING AND POWER BRANCH CIRCUIT, MC CABLE SHALL BE INSTALLED FOR RECESSED INSTALLATION ONLY, EITHER IN NEW WALLS OR ABOVE HUNG CEILING WHERE POSSIBLE. REFER TO PANEL SCHEDULES IN DRAWING E-201 FOR ALL OTHER FEEDER AND BRANCH CIRCUIT SIZE INFORMATION.
- 3. PROVIDE LABELS ON ALL ELECTRICAL EQUIPMENT INDICATING CIRCUIT ORIGINATION.
- 4. UPDATE ALL EXISTING PANEL DIRECTORIES AFFECTED BY NEW WORK.
- CONTRACTOR SHALL PERFORM AMP PROBE READINGS ON EXISTING SERVICE 5. EQUIPMENT BEFORE AND AFTER WORK TO ENSURE EQUIPMENT WILL NOT BE LOADED BEYOND ITS MAX AMPACITY.
- CONTRACTOR SHALL MAINTAIN CONTINUITY TO ALL EXISTING CIRCUITRY TO 6. REMAIN WHICH ARE AFFECTED BY THE SCOPE OF WORK: CONTRACTOR SHALL FURNISH ALL NECESSARY JUNCTION BOXES, CONDUIT, AND WIRES AS REQUIRED TO KEEP CONTINUITY.
- REFER TO MECHANICAL PLANS FOR EQUIPMENT TO BE SUPPLIED BY OTHER 7. TRADES AND INSTALLED/WIRED UNDER THIS SECTION. COORDINATE LOCATION OF DEVICES WITH OTHER CONTRACTORS.
- PROVIDE FIRESTOPPING FOR ALL PENETRATIONS TO MATCH EXISTING FIRE 8. RATING WHERE APPLICABLE. ALL CORE DRILLS SHALL BE VERIFIED BY BUILDING REPRESENTATIVE PRIOR TO COMMENCING WORK. XRAY ALL FLOOR SLABS PRIOR TO ROUGH-INS FOR CORE DRILL WORK.
- 9. THE CONTRACTOR SHALL FIELD ROUTE FEEDER FOR NEW POWER PANELS. COORDINATE EXACT ROUTING PATH WITH OWNER. SUBMIT A PROPOSED ROUTING PATH TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO RUNNING ANY CONDUIT OR WIRE ASSOCIATED WITH THIS FEEDER.
- 10. REFER TO DRAWING E-102 FOR LOCATIONS OF NEW PANELS THAT WILL FEED NEW EQUIPMENTS.
- 11. AT EACH NEW UNIVENT, THE CONTRACTOR SHALL RELOCATE TWO (2) EXISTING DUPLEX RECEPTACLES AND TWO (2) EXISTING DATA OUTLETS. EXTEND ALL WIRING AND CONDUIT TO THE NEW LOCATION. FIELD DETERMINE WITH THE SCHOOL THE IDEAL LOCATION FOR THE NEW DEVICES. RELOCATE THESE OUTLETS TOWARDS THE EXISTING ROUTING OF EXISTING CONDUIT IN ORDER TO AVOID NEW HOME RUNS OF DATA CABLE.
- 12. DISCONNECT SWITCH FOR UNIT VENTILATORS IS PROVIDED BY HVAC CONTRACTOR. COORDINATE WITH HVAC CONTRACTOR.
- 13. ALL GROUNDING SHALL BE PROVIDED BY THE CONTRACTOR AS PER NEC 2017.





- 1. REFER TO ADDITIONAL INSTALLATION NOTES ON DRAWING E-001.
- 2. ALL NEW BRANCH CIRCUIT SHALL BE RUN WITH MINIMUM OF 2#12+1#12G IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. FOR LIGHTING AND "POWER" BRANCH CIRCUIT, MC CABLE SHALL BE INSTALLED FOR RECESSED INSTALLATION ONLY, EITHER IN NEW WALLS OR ABOVE HUNG CEILING WHERE POSSIBLE. REFER TO PANEL SCHEDULES IN DRAWING E-201 FOR ALL OTHER FEEDER AND BRANCH CIRCUIT SIZE INFORMATION.
- 3. PROVIDE LABELS ON ALL ELECTRICAL EQUIPMENT INDICATING CIRCUIT ORIGINATION.
- 4. UPDATE ALL EXISTING PANEL DIRECTORIES AFFECTED BY NEW WORK.
- CONTRACTOR SHALL PERFORM AMP PROBE READINGS ON EXISTING SERVICE 5. EQUIPMENT BEFORE AND AFTER WORK TO ENSURE EQUIPMENT WILL NOT BE LOADED BEYOND ITS MAX AMPACITY.
- CONTRACTOR SHALL MAINTAIN CONTINUITY TO ALL EXISTING CIRCUITRY TO REMAIN 6. WHICH ARE AFFECTED BY THE SCOPE OF WORK; CONTRACTOR SHALL FURNISH ALL NECESSARY JUNCTION BOXES, CONDUIT, AND WIRES AS REQUIRED TO KEEP CONTINUITY.
- REFER TO MECHANICAL PLANS FOR EQUIPMENT TO BE SUPPLIED BY OTHER 7 TRADES AND INSTALLED/WIRED UNDER THIS SECTION. COORDINATE LOCATION OF DEVICES WITH OTHER CONTRACTORS.
- 8. PROVIDE FIRESTOPPING FOR ALL PENETRATIONS TO MATCH EXISTING FIRE RATING WHERE APPLICABLE. ALL CORE DRILLS SHALL BE VERIFIED BY BUILDING REPRESENTATIVE PRIOR TO COMMENCING WORK. XRAY ALL FLOOR SLABS PRIOR TO ROUGH-INS FOR CORE DRILL WORK.
- THE CONTRACTOR SHALL FIELD ROUTE FEEDER FOR NEW POWER PANELS. 9. COORDINATE EXACT ROUTING PATH WITH OWNER. SUBMIT A PROPOSED ROUTING PATH TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO RUNNING ANY CONDUIT OR WIRE ASSOCIATED WITH THIS FEEDER.
- 10. REFER TO DRAWING E-102 FOR LOCATIONS OF NEW PANELS THAT WILL FEED NEW EQUIPMENTS.
- 11. AT EACH NEW UNIVENT, THE CONTRACTOR SHALL RELOCATE TWO (2) EXISTING DUPLEX RECEPTACLES AND TWO (2) EXISTING DATA OUTLETS. EXTEND ALL WIRING AND CONDUIT TO THE NEW LOCATIÓN. FIELD DETERMINE WITH THE SCHOOL THE IDEAL LOCATION FOR THE NEW DEVICES. RELOCATE THESE OUTLETS TOWARDS THE EXISTING ROUTING OF EXISTING CONDUIT IN ORDER TO AVOID NEW HOME RUNS OF DATA CABLE.
- 12. DISCONNECT SWITCH FOR UNIT VENTILATORS IS PROVIDED BY HVAC CONTRACTOR. COORDINATE WITH HVAC CONTRACTOR.
- 13. ALL GROUNDING SHALL BE PROVIDED BY THE CONTRACTOR AS PER NEC 2017.
- 14. ALL 120/208V PANELS AND DISTRIBUTION BOARD NEEDS TO BE INSTALLED IN SUCH A WAY SO THAT A 3 FEET CLEARANCE IN FRONT OF THE PANELS IS BEING MAINTAINED AS REQUIRED BY NEC 2017.





SECOND FLOOR PLAN



- 1. REFER TO ADDITIONAL INSTALLATION NOTES ON DRAWING E-001.
- 2. ALL NEW BRANCH CIRCUIT SHALL BE RUN WITH MINIMUM OF 2#12+1#12G IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. FOR LIGHTING AND POWER BRANCH CIRCUIT, MC CABLE SHALL BE INSTALLED FOR RECESSED INSTALLATION ONLY, EITHER IN NEW WALLS OR ABOVE HUNG CEILING WHERE POSSIBLE. REFER TO PANEL SCHEDULES IN DRAWING E-201 FOR ALL OTHER FEEDER AND BRANCH CIRCUIT SIZE INFORMATION.
- 3. PROVIDE LABELS ON ALL ELECTRICAL EQUIPMENT INDICATING CIRCUIT ORIGINATION.
- 4. UPDATE ALL EXISTING PANEL DIRECTORIES AFFECTED BY NEW WORK.
- 5. CONTRACTOR SHALL PERFORM AMP PROBE READINGS ON EXISTING SERVICE EQUIPMENT BEFORE AND AFTER WORK TO ENSURE EQUIPMENT WILL NOT BE LOADED BEYOND ITS MAX AMPACITY.
- CONTRACTOR SHALL MAINTAIN CONTINUITY TO ALL EXISTING CIRCUITRY TO REMAIN 6. WHICH ARE AFFECTED BY THE SCOPE OF WORK; CONTRACTOR SHALL FURNISH ALL NECESSARY JUNCTION BOXES, CONDUIT, AND WIRES AS REQUIRED TO KEEP CONTINUITY.
- 7. REFER TO MECHANICAL PLANS FOR EQUIPMENT TO BE SUPPLIED BY OTHER TRADES AND INSTALLED/WIRED UNDER THIS SECTION. COORDINATE LOCATION OF DEVICES WITH OTHER CONTRACTORS.
- 8. PROVIDE FIRESTOPPING FOR ALL PENETRATIONS TO MATCH EXISTING FIRE RATING WHERE APPLICABLE. ALL CORE DRILLS SHALL BE VERIFIED BY BUILDING REPRESENTATIVE PRIOR TO COMMENCING WORK. XRAY ALL FLOOR SLABS PRIOR TO ROUGH-INS FOR CORE DRILL WORK.
- 9. THE CONTRACTOR SHALL FIELD ROUTE FEEDER FOR NEW POWER PANELS. COORDINATE EXACT ROUTING PATH WITH OWNER. SUBMIT A PROPOSED ROUTING PATH TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO RUNNING ANY CONDUIT OR WIRE ASSOCIATED WITH THIS FEEDER.
- 10. REFER TO DRAWING E-102 FOR LOCATIONS OF NEW PANELS THAT WILL FEED NEW EQUIPMENTS.
- 11. AT EACH NEW UNIVENT, THE CONTRACTOR SHALL RELOCATE TWO (2) EXISTING DUPLEX RECEPTACLES AND TWO (2) EXISTING DATA OUTLETS. EXTEND ALL WIRING AND CONDUIT TO THE NEW LOCATIÓN. FIELD DETERMINE WITH THE SCHOOL THE IDEAL LOCATION FOR THE NEW DEVICES. RELOCATE THESE OUTLETS TOWARDS THE EXISTING ROUTING OF EXISTING CONDUIT IN ORDER TO AVOID NEW HOME RUNS OF DATA CABLE.
- 12. DISCONNECT SWITCH FOR UNIT VENTILATORS IS PROVIDED BY HVAC CONTRACTOR. COORDINATE WITH HVAC CONTRACTOR.
- 13. ALL GROUNDING SHALL BE PROVIDED BY THE CONTRACTOR AS PER NEC 2017.

SCALE: 1/16" = 1'-0"

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Drawing Title 3RD FLOOR		TINIWENT BEDIACEMENT	GREENMAN	Drawn by FC		
PLAN - ELECTRICAL			& Electrical PEDERSEN, INC & Electrical 400 RELLA BOULEVARD MONTEBELLO, NY 10901	Checked by SH	7 02-17-	-22 ADDENDLIM 7
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E-106	140 Park Avenue New City, NY 10956 Tel 845-708-9200			Date	1 08-30	-21 BIDDING DOCUMENTS
	www.shilale.com	16 Grant Street Haverstraw, NY 10927 COUNTY OF ROCKLAND		08-30-21	No. Date	Revisions

PLAN NORTH

- 1. REFER TO ADDITIONAL INSTALLATION NOTES ON DRAWING E-001.
- ALL NEW BRANCH CIRCUIT SHALL BE RUN WITH MINIMUM OF 2#12+1#12G IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. FOR LIGHTING AND POWER BRANCH CIRCUIT, MC CABLE SHALL BE INSTALLED FOR RECESSED INSTALLATION ONLY, EITHER IN NEW WALLS OR ABOVE HUNG CEILING WHERE POSSIBLE. REFER TO PANEL SCHEDULES IN DRAWING E-201 FOR ALL OTHER FEEDER AND BRANCH CIRCUIT SIZE INFORMATION.
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- 10. ALL EXTERIOR RUNS SHALL BE IN RIGID GALVANIZED STEEL CONDUIT.
- 11. ALL GROUNDING SHALL BE PROVIDED BY THE CONTRACTOR AS PER NEC 2017.
- 12. ALL DISCONNECT SWITCH ON ROOF SHALL BE WEATHER PROOF.

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SED	CEMENT Mech & El Brgir RY D-009-018 County of rockland
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419 Φ GFI 3#3+1#8-1 1/4"C WP-2B#19 Φ GFI 3#3+1#8-1 1/4"C WP-2B#8,10,12 3#3+1#8-1 1/4"C WP-WP 0.11 CU-9 0.11 CU-	ECTS, ALL RICHTS RESERVED.
PLAN NORTH	© copyricht, Michael Shilale Archite Drawing Title REDEFRICAL Brewing No. E-104

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($\overline{}$						>	FEDFR			TOT, DEM	LOAD 132.49	988884 @ 20	8	KEVARKS.	_			₹ E	M N	
FROOM 200	OFFICE 221B	K _A						\langle										• >		A	LLE -0	927
		$ \rangle$						<u> </u>				~~~~~~			~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		E	Ξ	E 50	eet NY 10
NEW NEW	NEW	3																			#(t Str raw,]
OWER POWER (ANEL PANEL)	POWER	}																			SEI	Gran verst
P-2B UP-2C {	UP-2D	В																	Ŋ			16 Ha
<u> </u>		SECOND F	LOOR				Г	$P \cap W$	ER M		ISTR	IBITTI	ON P	ANFT	SCI	я падан			[
	$ \rangle$						1														ا م	9200
	<u> </u>					VOLTAGE	120/208		-HASE 4	WIRE + G. U.	U.N											-708-
	$\left\{ \left \right. \right\}$				P/	ANEL BUS			скт.							FEEDER SIZE					ЦŠ,	845

	VOLTAGE	120/20	18 3 F	PHASE	4 WIRE + G. U.O.N				
	BUS	MAIN D	DEVICE			E	BRANCH DEVICE		
PANEL	(AMPS)	MCCB (AMPS)	TRIP (AMPS)		EQUIPMENT	MCCB (AMPS)	TRIP (AMPS)	POLES	FEEDER SIZE
SDP	800A			1	POWER PANEL UP-2A	400	400	3	4#600MCM+1#3G-4"C
42KAIC	COPPER	MLU	MLO	2	POWER PANEL UP-2B	400	400	3	4#600MCM+1#3G-4"C
				3	POWER PANEL UP-2C	200	200	3	4#3/0+1#6G-2"C
				4	POWER PANEL UP-2D	200	200	3	4#3/0+1#6G-2"C
				5	SPARE	~		ng n	
				6	SPARE	100	100	3	
				7	SPARE	100	100	3	

—SDP#3 FIRST FLOOR _____ - NEW,800A,120/208V,3P,4W SUB DISTRIBUTION BOARD <u>SDP</u>

BASEMENT

EXISTING DEMAND LOAD AND UTILITY BILL DATA INDICATES A PEAK USAGE OF 130.2KW ON 11/24/20. THIS YIELDS APPROXIMÁTELY 362A AT 120/208V, 3 PHASE

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ELECTRICAL SCHEDULES AND RISER