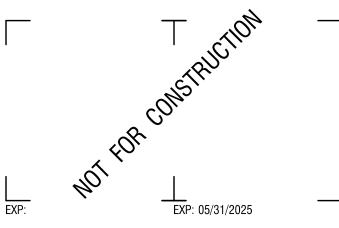


4 British American Boulevard Latham, NY 12110 518-439-8235



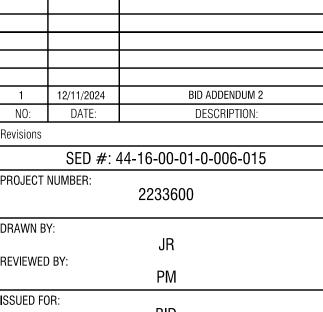
CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

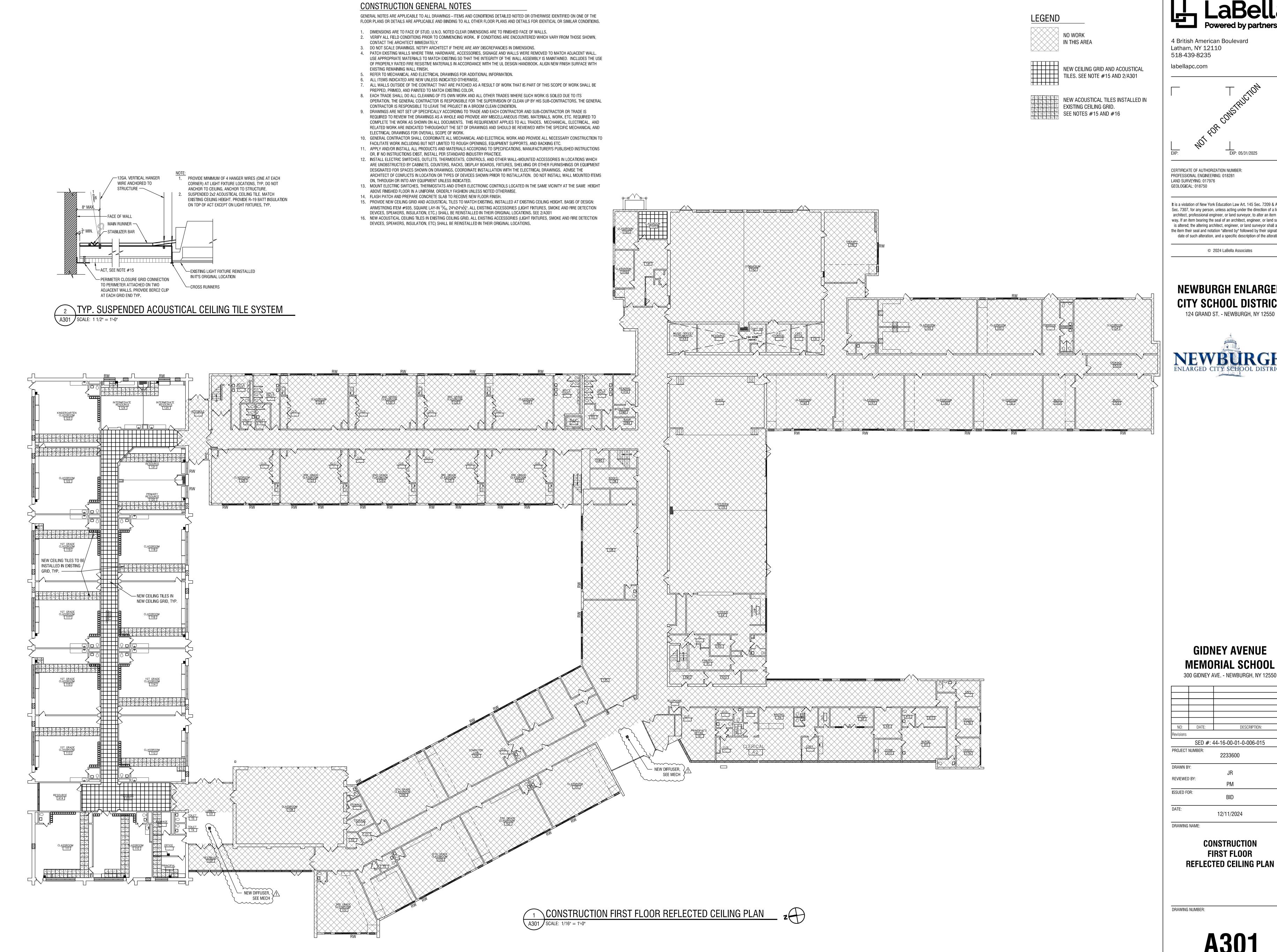
© 2024 LaBella Associates

### **NEWBURGH ENLARGED**

**GIDNEY AVENUE** 300 GIDNEY AVE. - NEWBURGH, NY 12550

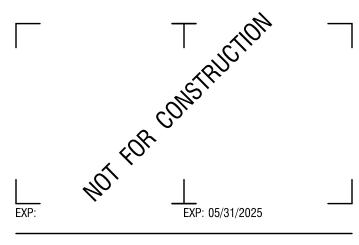


CONSTRUCTION FIRST FLOOR PLAN



4 British American Boulevard Latham, NY 12110

518-439-8235 labellapc.com



CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

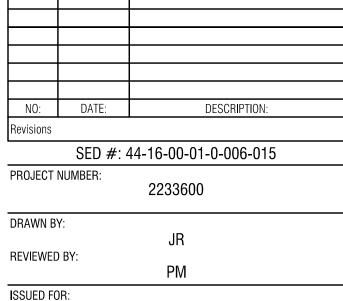
© 2024 LaBella Associates

### **NEWBURGH ENLARGED**

124 GRAND ST. - NEWBURGH, NY 12550

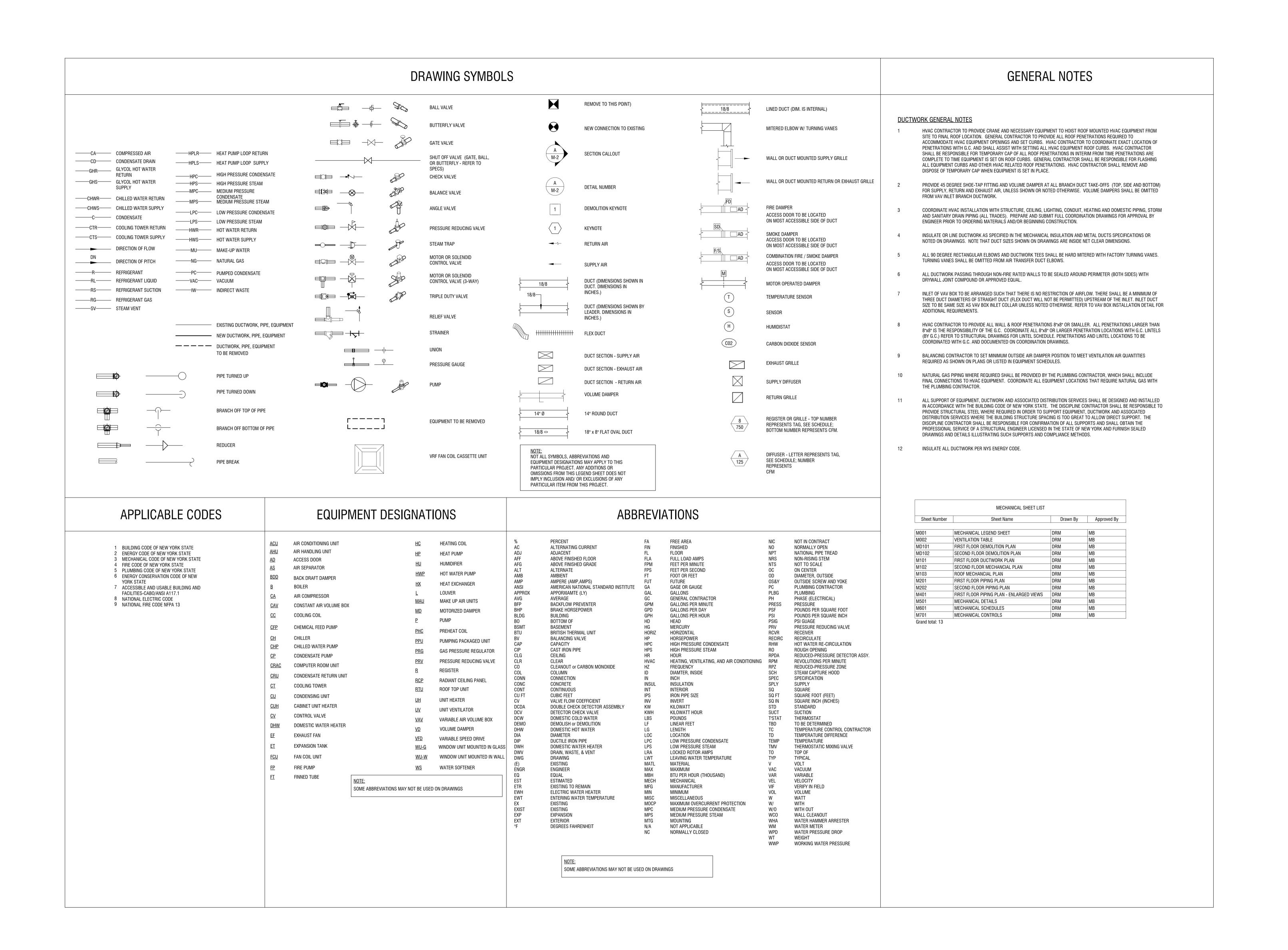


#### **GIDNEY AVENUE MEMORIAL SCHOOL** 300 GIDNEY AVE. - NEWBURGH, NY 12550



FIRST FLOOR

CONSTRUCTION





CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

### NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



GIDNEY AVENUE MEMORIAL
SCHOOL
300 GIDNEY AVENUE

NEWBURGH, NY 12550

NO: DATE: DESCRIPTION:

Revisions

S.E.D. NUMBER: 44-16-00-01-0-006-015

PROJECT NUMBER:

2233600

DRAWN BY: DRM

REVIEWED BY: MB

ISSUED FOR:

ADDENDUM 2

MECHANICAL LEGEND

DRAWING NUMBER

Room Name	Unit	Square Footage	Туре	Occupancy Density/1000sf	Calculated Occupancy	Max Occupancy	OA/person	CFM/SF	Code OA (cfm)	Provided OA (cfm)
110 - Classroom	UV-110	850	Classroom	25	22	22	10	0.12	322	390
111 - Classroom	UV-111	850	Classroom	25	22	22	10	0.12	322	390
112 - Classroom	UV-112	1000	Classroom	25	25	25	10	0.12	370	390
113 - 1st Grade Classroom	UV-113	980	Classroom	25	25	25	10	0.12	367.6	390
114 - 1st Grade Classroom	UV-114	1000	Classroom	25	25	25	10	0.12	370	390
115 - 1st Grade Classroom	UV-115	980	Classroom	25	25	25	10	0.12	367.6	390
116 - Classroom	UV-116	1000	Classroom	25	25	25	10	0.12	370	390
117 - 1st Grade Classroom	UV-117	450	Classroom	25	12	12	10	0.12	174	190
118 - Classroom	UV-118	450	Classroom	25	12	12	10	0.12	174	190
119 - 1st Grade Classroom	UV-119	980	Classroom	25	25	25	10	0.12	367.6	390
120- Primary Resource	UV-120	1000	Classroom	25	25	25	10	0.12	370	390
121 - Primary Resource	UV-121	980	Classroom	25	25	25	10	0.12	367.6	390
122 - Classroom	UV-122	480	Classroom	25	12	12	10	0.12	177.6	190
123 - Kindergarten Classroom	UV-123	480	Classroom	25	12	12	10	0.12	177.6	190
124 - Intermediate Resource	UV-116A	990	Classroom	25	25	25	10	0.12	368.8	390
125 - Intermediate Resource	UV-116B	980	Classroom	25	25	25	10	0.12	367.6	390
142 - Gym	AHU-1 & AHU-2	3830	Multi-Use Assembly	100	383	300	7.5	0.06	2479.8	2684
137 - Cafeteria	RTU-1 & RTU 2	3595	Cafeteria	100	360	360	7.5	0.18	3347.1	4000



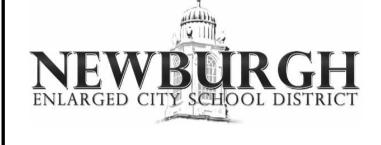
CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

## NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



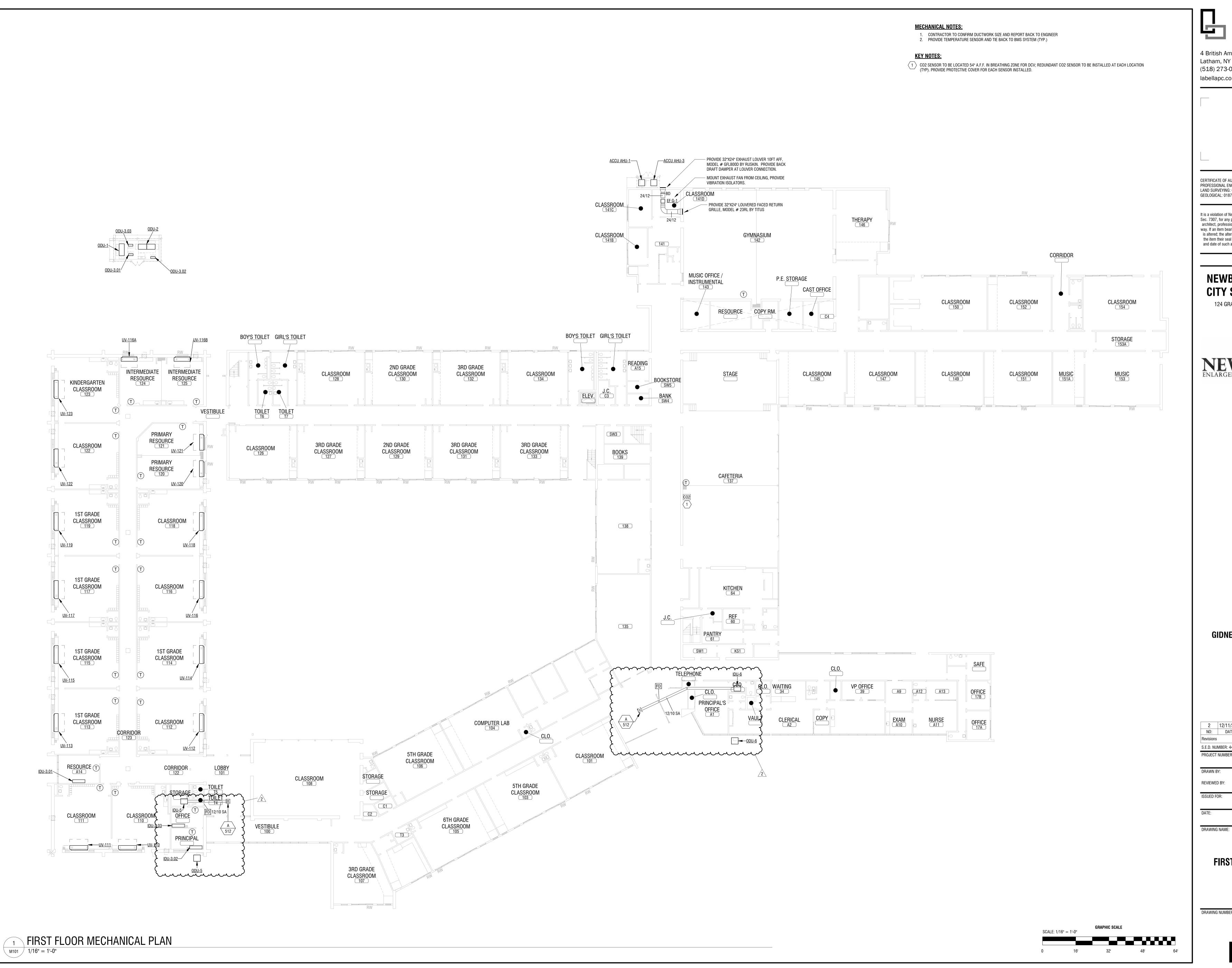
GIDNEY AVENUE MEMORIAL SCHOOL

300 GIDNEY AVENUE NEWBURGH, NY 12550

1	8/30/2024	SED ADDENDUM 2
NO:	DATE:	DESCRIPTION:
Revisions		
S.E.D. NU	MBER: 44-16-0	0-01-0-006-015
PROJECT	NUMBER:	2233600
DRAWN B	Y:	DRM
REVIEWE	D BY:	MB
ISSUED FO	OR:	ADDENDUM 2
DATE:		12/11/2024
DRAWING	NAMF.	

**VENTILATION TABLE** 

DRAWING NUMBE



CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING LAND SURVEYING: 017976 LICENSE NO. C-0430 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

#### **NEWBURGH ENLARGED** CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

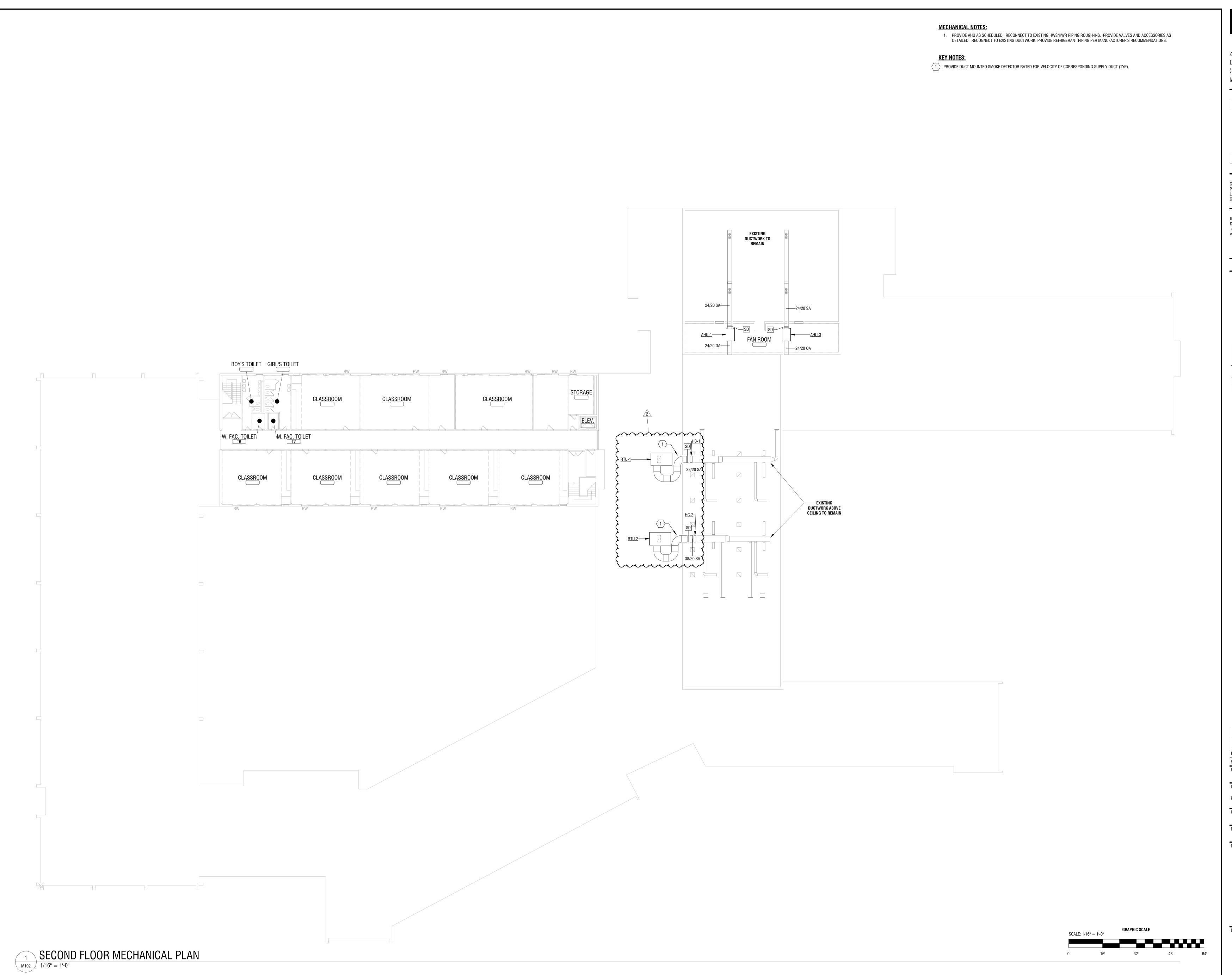


**GIDNEY AVENUE MEMORIAL SCHOOL** 

300 GIDNEY AVENUE NEWBURGH, NY 12550

2	12/11/2024	BID ADDENDUM 2
NO:	DATE:	DESCRIPTION:
Revisions		
S.E.D. NU	MBER: 44-16-0	0-01-0-006-015
PROJECT	NUMBER:	2233600
DRAWN B		
DNAWN	BY:	DRM
REVIEWE		DRM MB
	D BY:	

FIRST FLOOR DUCTWORK





\_\_\_\_\_

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

## NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



GIDNEY AVENUE MEMORIAL SCHOOL

300 GIDNEY AVENUE NEWBURGH, NY 12550

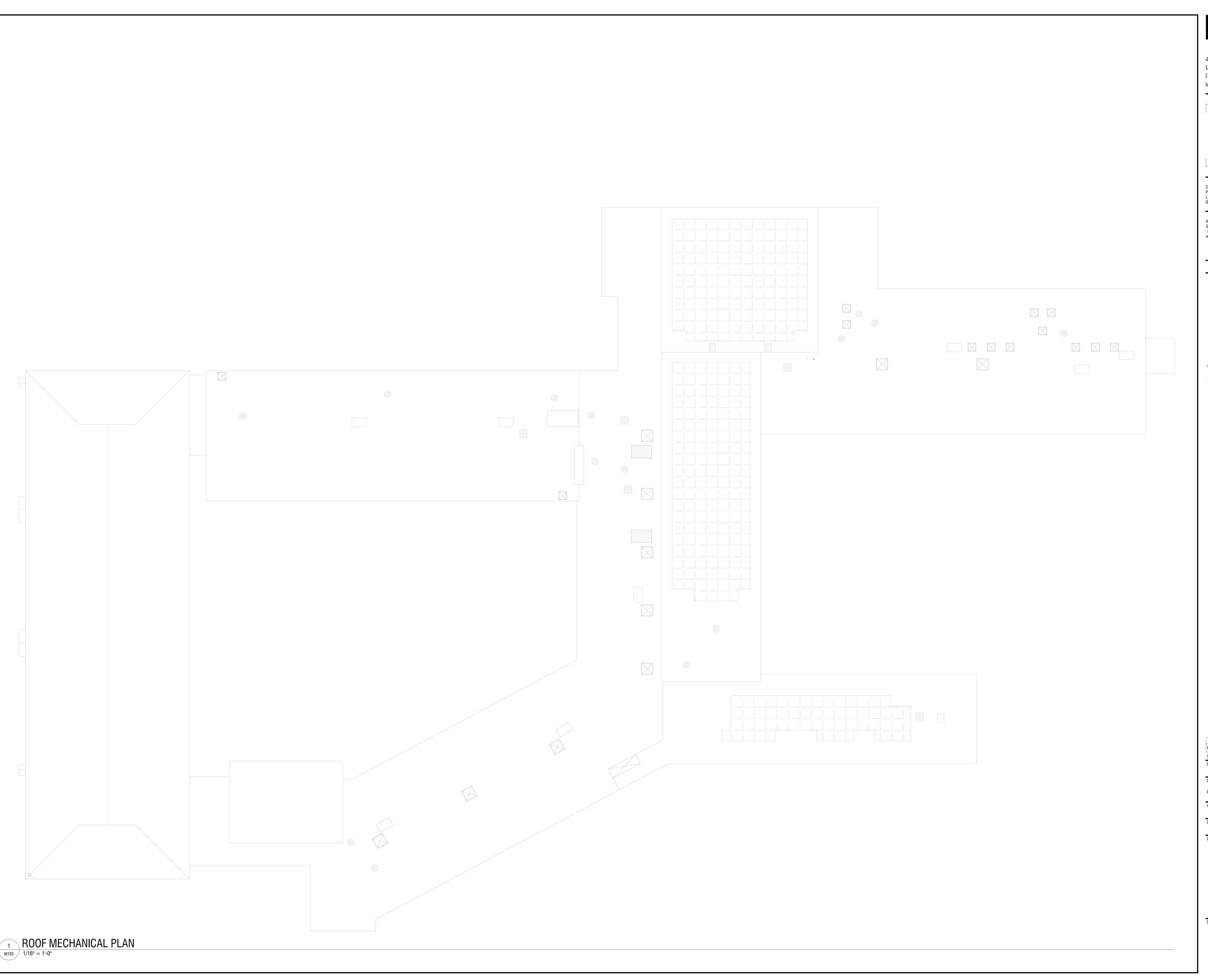
2	12/11/2024	BID ADDENDUM 2
1	8/30/2024	SED ADDENDUM 2
NO:	DATE:	DESCRIPTION:
Revisions		
S.E.D. NU	MBER: 44-16-0	0-01-0-006-015
PROJECT	NUMBER:	2233600
DRAWN B	Y:	DRM
REVIEWE	D BY:	MB
ISSUED FO	OR:	ADDENDUM 2

ING NAME.

\_\_\_\_\_

M102

SECOND FLOOR MECHANCIAL PLAN





CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

### NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



GIDNEY AVENUE MEMORIAL SCHOOL

300 GIDNEY AVENUE NEWBURGH, NY 12550

NO: DATE: DESCRIPTION:

Revisions

S.E.D. NUMBER: 44-16-00-01-0-006-015

PROJECT NUMBER:

2233600

DRAWN BY: DRM

REVIEWED BY: MB

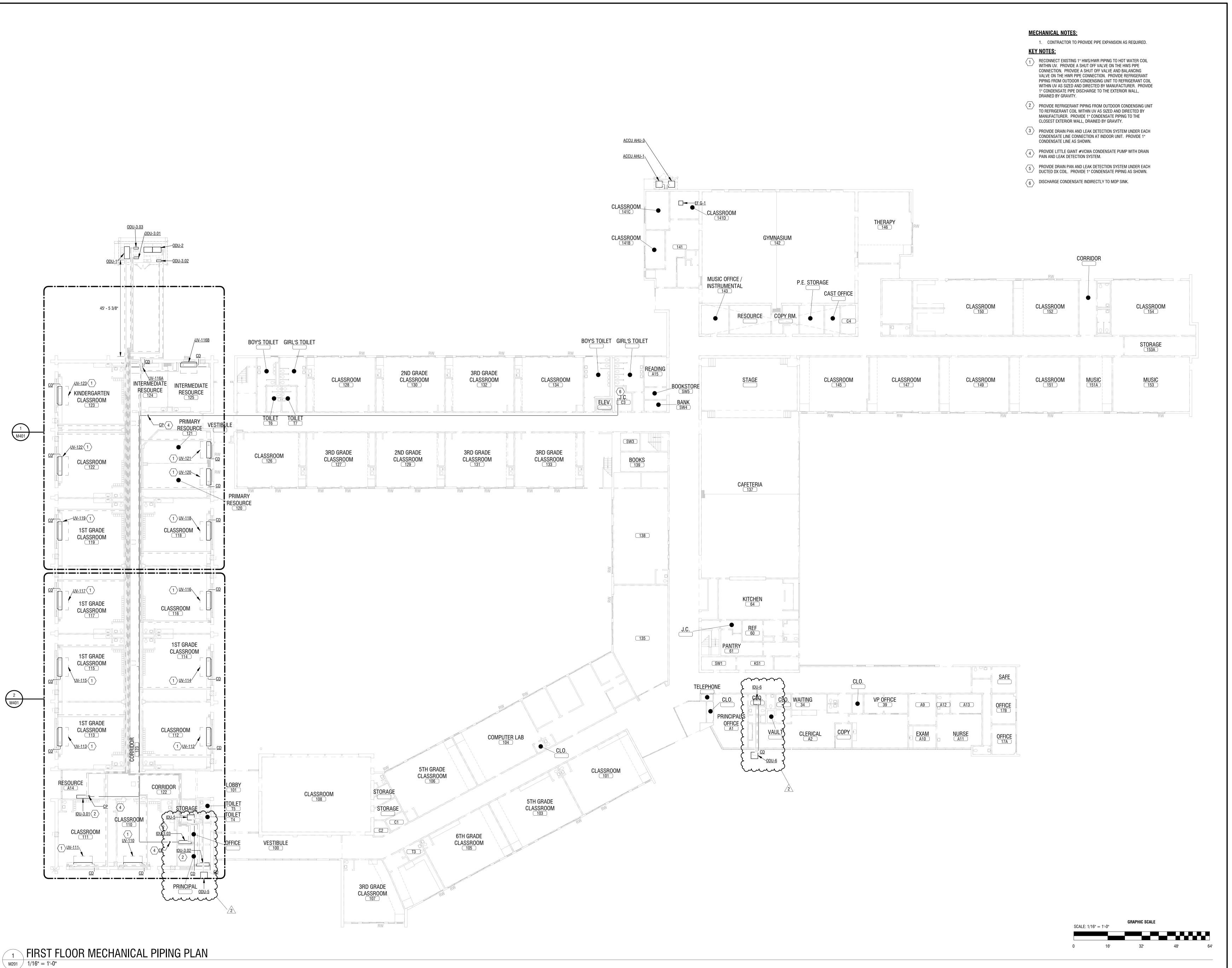
ISSUED FOR:

ADDENDUM 2

DATE: 12/11/2024

**ROOF MECHANCIAL PLAN** 

DRAWING NUMBER



LaBella
Powered by partnership.

4 British American Boulevard Latham, NY 12110 (518) 273-0055 labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

# NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



GIDNEY AVENUE MEMORIAL SCHOOL

300 GIDNEY AVENUE NEWBURGH, NY 12550

 2
 12/11/2024
 BID ADDENDUM 2

 NO:
 DATE:
 DESCRIPTION:

 Revisions
 S.E.D. NUMBER: 44-16-00-01-0-006-015

 PROJECT NUMBER: 2233600

 DRM

 REVIEWED BY:
 MB

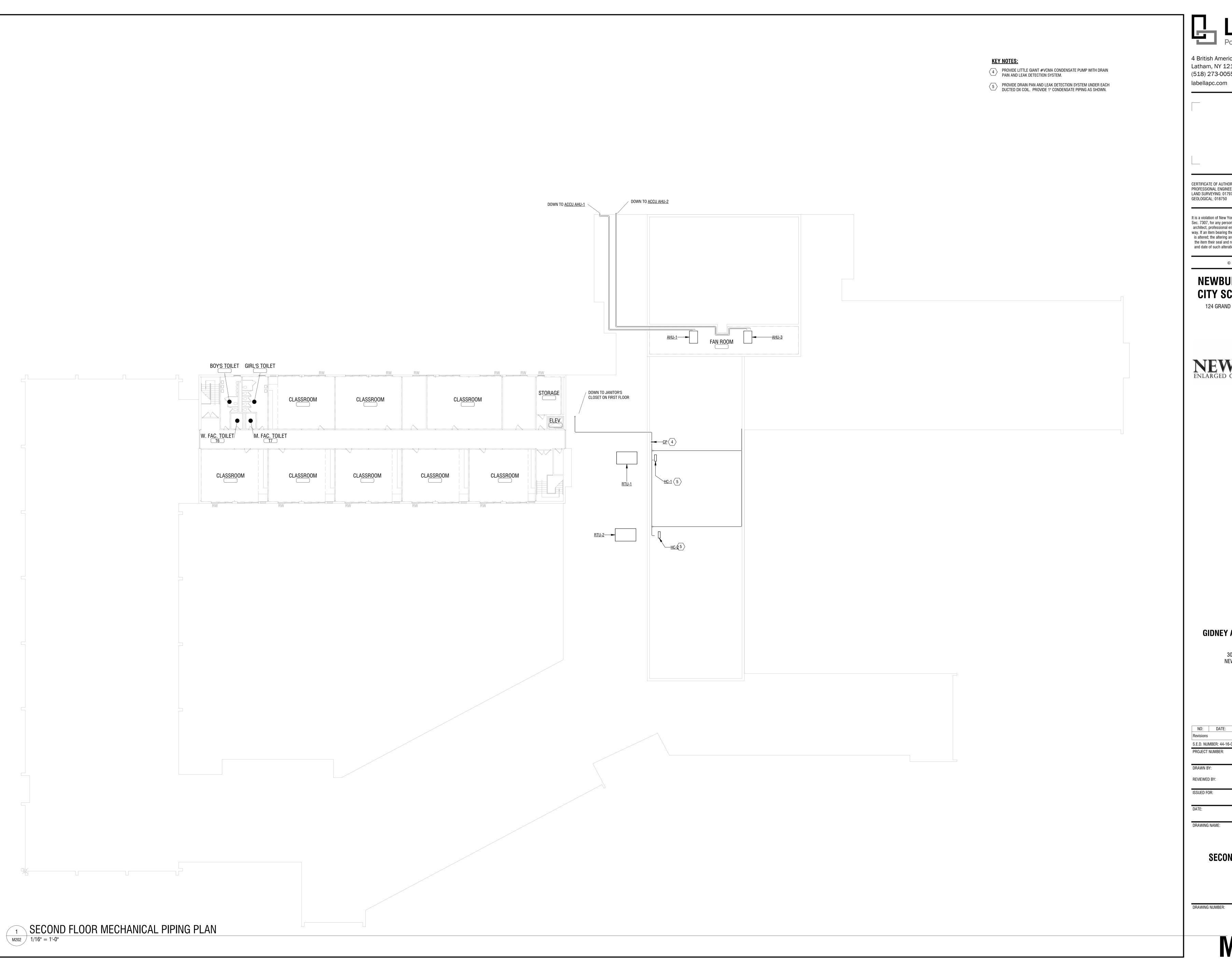
 ISSUED FOR: ADDENDUM 2

E: 12/11/2024

DRAWING NAME:

FIRST FLOOR PIPING PLAN

DRAWING NUMBER:



4 British American Boulevard Latham, NY 12110 (518) 273-0055

CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

### **NEWBURGH ENLARGED** CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

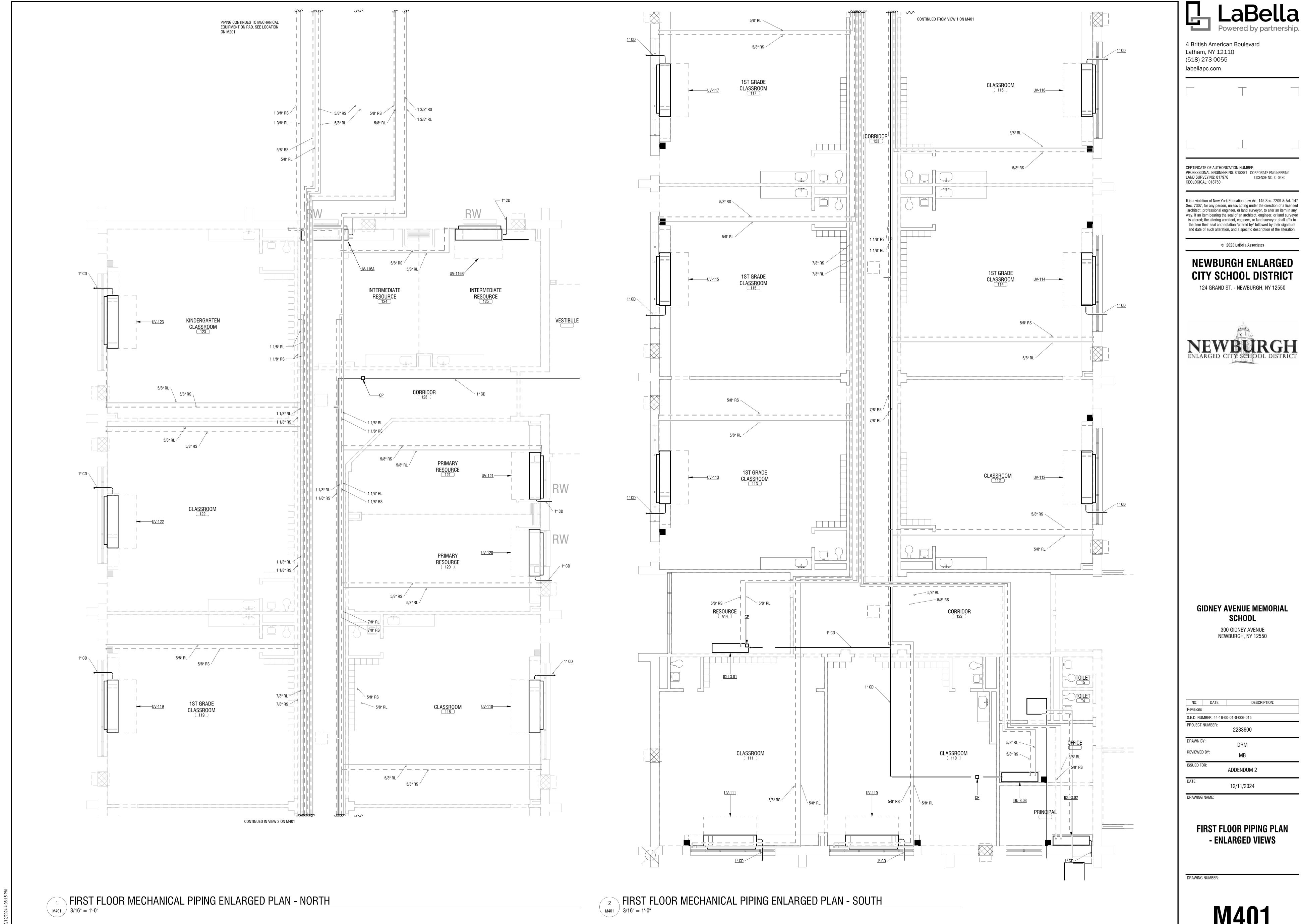


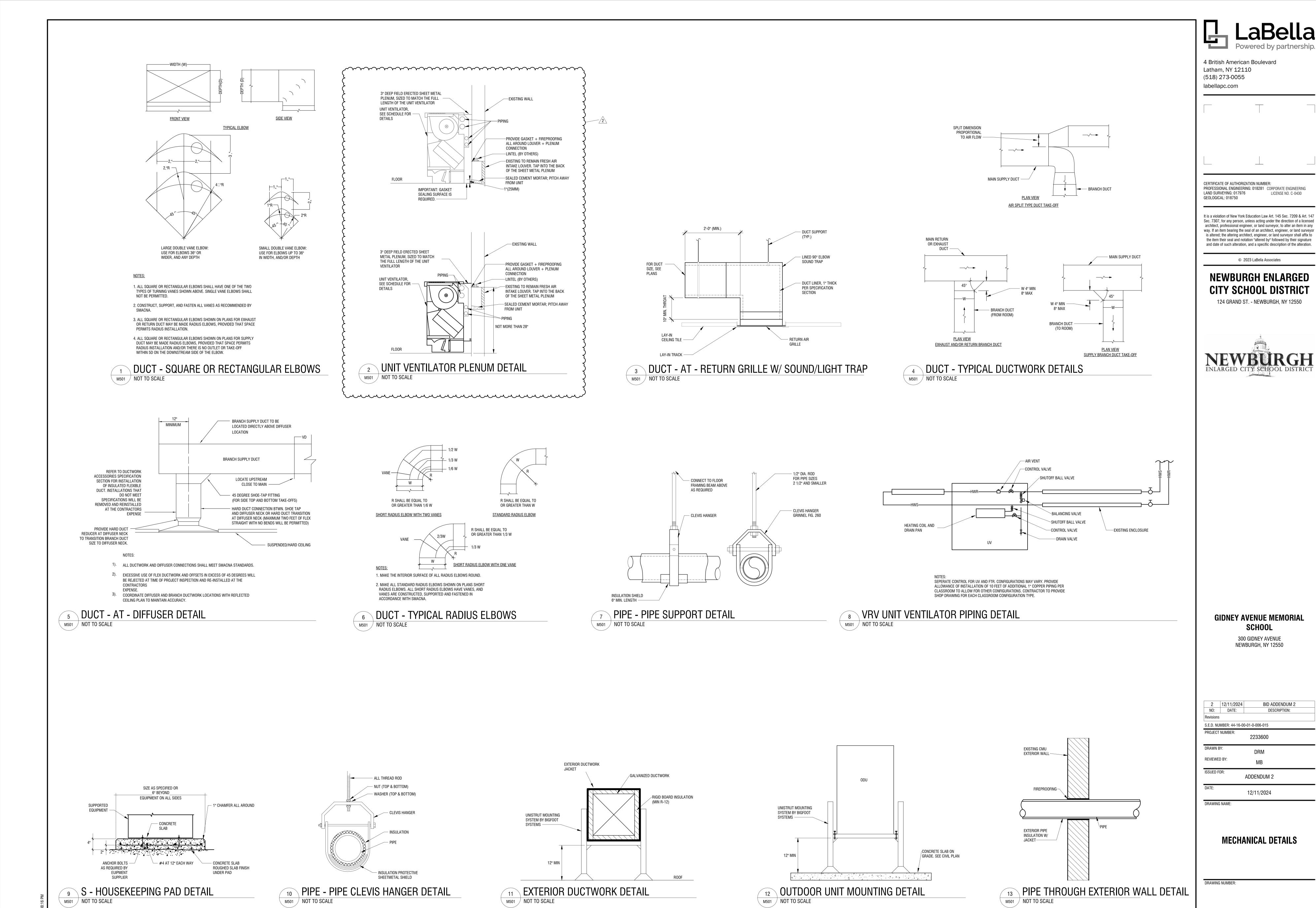
**GIDNEY AVENUE MEMORIAL SCHOOL** 

300 GIDNEY AVENUE NEWBURGH, NY 12550

NO: DATE: S.E.D. NUMBER: 44-16-00-01-0-006-015 PROJECT NUMBER: DRAWN BY: REVIEWED BY: ISSUED FOR: ADDENDUM 2

SECOND FLOOR PIPING

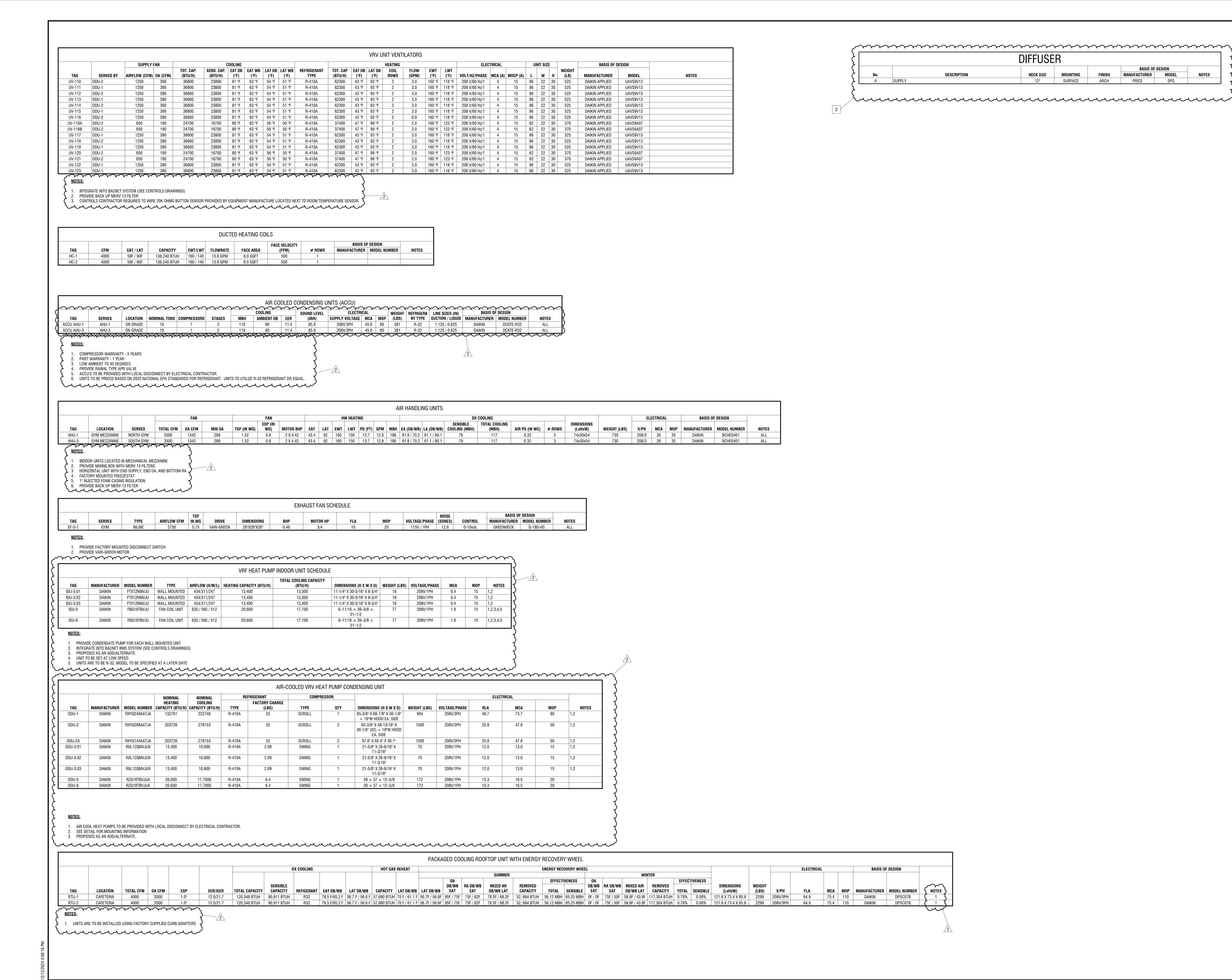




**BID ADDENDUM 2** 

DESCRIPTION:

LICENSE NO. C-0430





**BASIS OF DESIGN** 

MANUFACTURER

PRICE

MOUNTING

SURFACE

FINISH

ARCH

CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING LAND SURVEYING: 017976 LICENSE NO. C-0430 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

#### **NEWBURGH ENLARGED** CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



GIDNEY AVENUE MEMORIAL

300 GIDNEY AVENUE NEWBURGH, NY 12550

2	12/11/2024	BID ADDENDUM 2		
NO:	DATE:	DESCRIPTION:		
Revisions	3			
3.E.D. NU	JMBER: 44-16-0	0-01-0-006-015		
PROJECT	. VII IV/IDED			
	NOWIDEN.	2233600		
DRAWN I		2233600 DRM		
	BY:			

**MECHANICAL SCHEDULES** 

DRAWING NUMBER:

DRAWING NAME:

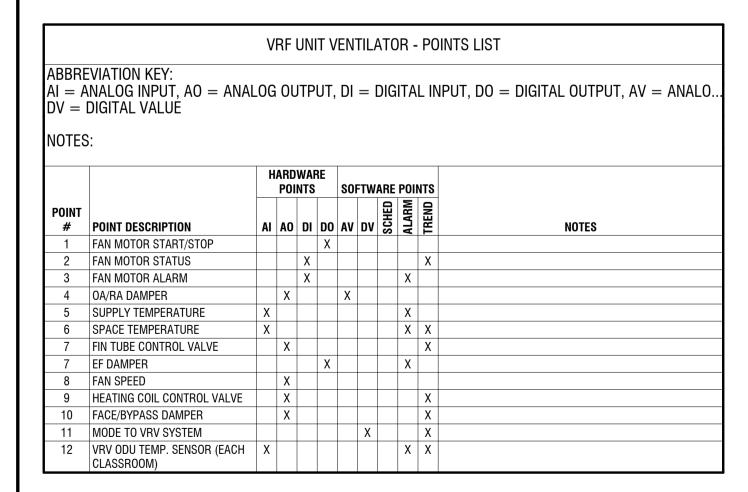
	HALLWA	Y SPLIT SY	/STEM - POINTS	SLIST			
		READ	READ/WRITE	SOFTV	VARE POIN	TS	
POINT #	POINT DESCRIPTION	POINTS	POINTS	SCHEDULE	ALARM	TREND	NOTES
1	SYSTEM ENABLE/DISABLE		Х				
2	OCCUPIED HEATING SETPOINT		Х				
3	UNOCCUPIED HEATING SETPOINT		Х				
4	OCCUPIED COOLING SETPOINT		X				
5	UNOCCUPIED COOLING SETPOINT		Х				
6	GENERAL ALARM		X		Х		
7	SPACE TEMPERATURE	Χ			Х	Х	

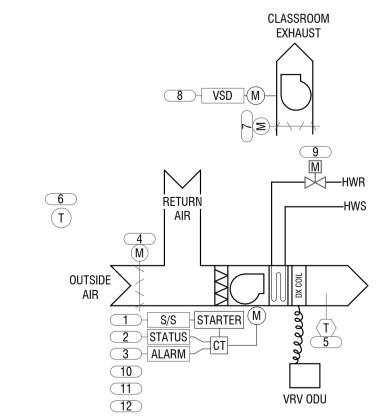
			OFFICE SPLI	T SYSTEM	- POINTS	S LIST	
		READ	READ/WRITE	SOFT	WARE POIN	ITS	
POINT #	POINT DESCRIPTION	POINTS	POINTS	SCHEDULE	ALARM	TREND	NOTES
1	SYSTEM ENABLE/DISABLE		Х				
2	OCCUPIED MODE		Х	Х			
3	UNOCCUPIED MODE		Х	Х			
4	GENERAL ALARM		Х		Х		
5	SPACE TEMPERATURES	Х			Χ	X	PROVIDE USER ADJUSTABLE THERMOSTATS IN EACH SPACE
NOTES			_				

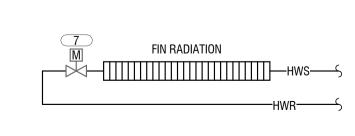
1. CONTRACTOR TO PROGRAM DEFAULT HEATING AND COOLING SETPOINTS CONTRACTOR TO PROGRAM SETPOINT ADJUSTMENT RANGE +/- 2 DEG. F 3. SCHEDULES SHALL BE PROGRAMMED IN BMS OR SPLIT SYSTEM CONTROLLER

			READ/WRITE	SOFT	WARE POIN	ITS	
POINT #	POINT DESCRIPTION	READ POINTS	POINTS	SCHEDULE	ALARM	TREND	NOTES
1	SYSTEM ENABLE/DISABLE		Х				
2	COMPRESSOR STATUS	Х			Х		
3	MODEL SELECT (HEATING/COOLING)		Χ			Х	
4	GENERAL ALARM				Х		
5	COMPRESSOR START/STOP (2)		Х			Χ	

1. CONTRACTOR TO PROGRAM DEFAULT HEATING AND COOLING SETPOINTS CONTRACTOR TO PROGRAM SETPOINT ADJUSTMENT RANGE +/- 2 DEG. F SCHEDULES SHALL BE PROGRAMMED IN BMS OR SPLIT SYSTEM CONTROLLER







NOTE: FIN RADIATION CONTROL IS NOT PRESENT IN

OCCUPIED MODE: THE UNIT SHALL MAINTAIN A 70°F (ADJ.) HEATING SETPOINT, 74°F COOLING SETPOINT.

THE OCCUPANT SHALL BE ABLE TO ADJUST THE SPACE TEMPERATURE

60°F (ADJ.) HEATING SETPOINT, 80°F COOLING SETPOINT.

UNOCCUPIED MODE: (NIGHT SETBACK): THE UNIT SHALL MAINTAIN A

HEATING SETPOINT AT THE SPACE SENSOR. F/B DAMPER AND HEATING COIL VALVE: THE CONTROLLER SHALL MEASURE THE SPACE TEMPERATURE.

WHENEVER THE SPACE TEMPERATURE FALLS BELOW THE HEATING SETPOINT, MODULATE THE FACE AND BYPASS DAMPER TO MAINTAIN SETPOINT. THE HOT WATER COIL VALVE SHALL BE OPEN. HEATING SHALL BE ENABLED WHENEVER: -OUTSIDE AIR TEMPERATURE IS LESS THAN 50°F (ADJ.) AND -THE SPACE TEMPERATURE IS BELOW HEATING SETPOINT.

ECONOMIZER MODE WHEN OUTSIDE AIR IS ABOVE 60°F (ADJ.): WHENEVER THE F/B DAMPER IS IN FULL BYPASS POSITION AND THE SPACE TEMPERATURE RISES ABOVE SPACE SETPOINT, THE HOT WATER COIL SHALL CLOSE. UPON FURTHER RISE IN TEMPERATURE, THE OUTSIDE AIR DAMPER SHALL OPEN TO 100% TO ALLOW FOR ECONOMIZER COOLING.

THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

THE OUTSIDE AIR DAMPER SHALL OPEN TO ITS MINIMUM OUTSIDE AIR POSITION WHENEVER: -THE UNIT IS IN OCCUPIED MODE AND -THE FAN IS ON.

**EXISTING BUILDING CONTROLS**: WHEN OA DAMPERS OPEN, EXG. RELIEF AIR DAMPERS SHALL OPEN AND RELIEF AIR EXHAUST FANS

DURING OCCUPIED MODE THE SUPPLY FAN WILL RUN AT A CONSTANT, MANUALLY DESIGNATED SPEED (LOW/MED/HIGH). THE CONTROLLER SHALL MONITOR THE FAN STATUS.

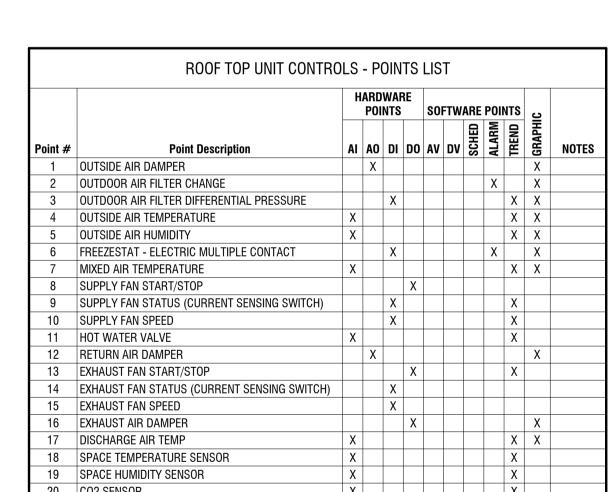
- HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.). - LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.). - HIGH SPACE TEMPERATURE: IF THE SPACE TEMPERATURE IS GREATER THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT. - LOW SPACE TEMPERATURE: IF THE SPACE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT.

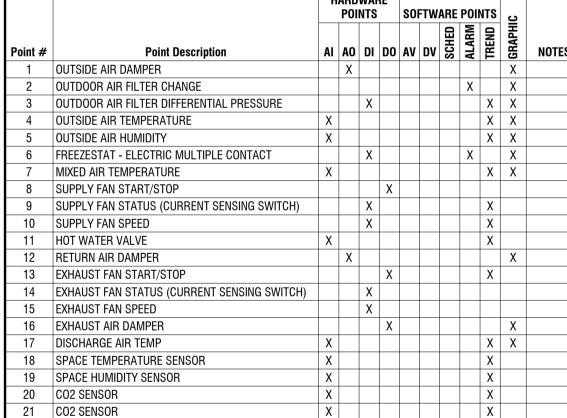
FIN RADIATION HEATING VALVE (IF EXISTING IN PLACE): WHERE EXISTING, THE FIN RADIATION SHALL: -PROVIDE THE SECOND STAGE OF HEATING. -PROVIDE UNOCCUPIED MODE HEATING.

- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.

-BE DISABLED WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 60 DEG F

EXISTING RELIEF SYSTEM SHALL OPERATE DURING OCCUPIED MODES AND BE OFF DURING UNOCCUPIED MODE.





ALARMS SHALL BE PROVIDED AS FOLLOWS:

AN ALARM SHALL BE GENERATED BY EACH OF THE ALARMS SHOWN ON THE POINTS LIST.

 IF ANY DIGTAL STATUS POINT DISAGREES WITH THE COMMAND FOR MORE THAN 5 MINUTES AN ALARM IF ANY TEMPERATURE SETPOINT IS MORE THAN 4 DEGREES FROM THE SETPOINT FOR MORE THEN 10

MINUTES, AN ALARM SHALL BE GENERATED • FILTER CHANGE NOTIFICATION: FILTER DIFFERENTIAL PRESSURE EXCEEDS SETPOINT (ADJ.). FAN SHUTDOWN UPON DUCT SMOKE DETECTOR ACTIVATION

<u>FAN OPERATION</u>

THE SUPPLY FAN SHALL BE RUN CONTINUOUSLY UNLESS SHUTDOWN BY SAFETIES. THE SUPPLY AIR FANS SPEED SHALL BE OPTIMIZED IN THE FIELD DURING SYSTEM BALANCING TO DELIVER THE SCHEDULED SUPPLY AIRFLOW.

THE EXHAUST FAN SHALL RUN CONTINUOUSLY. THE SPEED SHALL BE MODULATED ACCORDING TO THE OUTSIDE AIR DAMPER POSITION. THE MODULATION SCHEDULE SHALL BE SET BY THE AIR BALANCER.

THE OA AND RA DAMPERS SHALL BE POSITIONED TO DELIVER THE APPROPRIATE AMOUNT OF OUTSIDE AIR AS

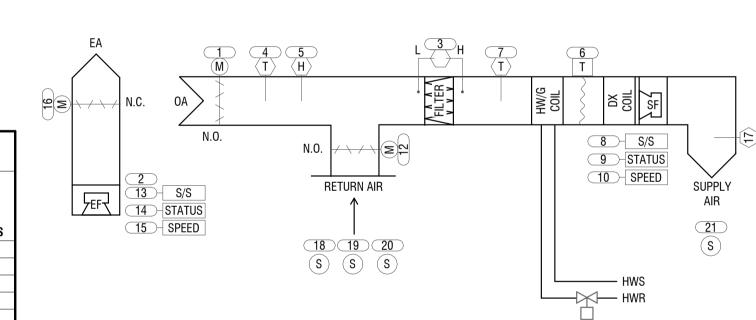
UNOCCUPIED MODE

GIDNEY SEQUENCE

DESCRIBED BELOW.

 THE SUPPLY FAN AND EXHAUST FAN SHALL BE OFF. EXISTING FINNED TUBE RADIATION SHALL MAINTAIN THE UNOCCUPIED SPACE TEMPERATURE. HILLS SEQUENCE-

THE SUPPLY FAN AND EXHAUST FAN SHALL BE OFF. IF THE SETPONT TEMPERATURE DROPS TWO DEGREES BELOW THE UNOCCUPIED SETPOINT, THE SUPPLY FAN SHALL START AND THE HEATING COIL SHALL OPEN TO 50% POSITION UNTIL THE SPACE TEMPERATURE IS 2 DEGREES ABOVE THE SETPOINT. THE FANS SHALL STOP AND THE HEATING VALVE SHALL CLOSE.



<u>SETPOINTS</u>

OCCUPIED HEATING - 70°F

OCCUPIED COOLING - 73°F UNOCCUPIED HEATING — 63°F

UNOCCUPIED COOLING - 85°F <u>Freeze Protectio</u> N

THE FREEZE STAT SETPOINT SHALL BE 40 DEGF. IF THE FREEZE STAT TRIPS, THE FANS SHALL STOP, THE DAMPERS SHALL MODULATE TO FULL RETURN POSITION AND THE HEATING COIL VALVE SHALL OPEN 50%. AN ALARM SHALL BE SENT.

THE HEATING CONTROL VALVE SHALL MODULATE TO MAINTAIN THE HEATING SETPOINT TEMPERATURE

IF THE OUTDOOR ENTHALY IS LESS THAN THE INDOOR INTHALPY AND THE SPACE TEMPERATURE IS ABOVE THE COOLING SETPOINT, ECONOMIZER COOLING SHALL BE ENABLED. THE MIXED AIR DAMPERS SHALL USE OUTSIDE AIR TO MAINTAIN THE COOLING SETPOINT. THE EXHAUST FAN SHALL MODULATE IN SYNC WITH THE OUTSIDE AIR DAMPER POSITION TO MAINTAIN SPACE PRESSURE BALANCE.

THE MIXED DAMPERS SHALL BE AT THE MINIMUM OCCUPIED POSITION OR THE POSITION DICTATED BY THE DCV CONTROL, WHICHEVER IS GREATER. THE ACCU SHALL START AND MODULATE TO MAINTAIN THE SPACE TEMPERATURE. THE

MINIMUM SUPPLY AIR TEMPERATURE SHALL BE 50°F. DCV CONTROL

OCCUPIED MODE THE MIXED AIR DAMPERS SHALL MODULATE TO MAINTAIN A CO2 SETPOINT OF 800 PPM (ADJ). THE MIXED AIR DAMPERS

SHALL BEGIN TO MODULATE OPEN WHEN THE INDOOR CO2 LEVEL IS 100 PPM OVER THE OUTDOOR CO2 LEVEL. THE MINIMUM POSITION OF THE OA DAMPER SHALL BE SET BY THE AIR BALANCER TO MAINTAIN THE MINIMUM AIR FLOW SHOWN ON THE SCHEDULE.

PRE-OCCUPANCY - THERE SHALL BE A 30 MINUTE PRE-OCCUPANCY PURGE WITH THE OUTSIDE DAMPERS SET TO THE MAXIMUM AIR FLOW POSITION SHOWN ON THE SCHEDULE AS SET BY THE AIR BALANCER.

POST-OCCUPANCY FLUSH - THE POST-OCCUPANCY FLUSH SHALL OPERATE UNTIL CO2 LEVELS ARE REDUCED TO 450 PPM. DURING POST-OCCUPANCY FLUSH THE DAMPERS SHALL BE IN THE MINIMUM VENTILATION POSITION AS SHOWN ON THE AHU SCHEDULE.

SENSOR FAILURE

IF A CO2 SENSOR FAILS, THE MIXED AIR DAMPERS SHALL OPEN TO THE MAXIMUM POSITION. COMMISSIONING AND RECORD KEEPING REQUIREMENTS

THE CO2 SENSOR CALIBRATION SHALL BE CHECKED ONE YEAR AFTER INITIAL COMMISSIONING IS COMPLETED. CO2 CONCENTRATION READINGS SHALL BE LOGGED BY THE BMS ON A 15-MINUTE INTERVAL. RECORDS MUST BE KEPT FOR



4 British American Boulevard

CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147

Sec. 7307, for any person, unless acting under the direction of a licensed

architect, professional engineer, or land surveyor, to alter an item in any

way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

**NEWBURGH ENLARGED** 

CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

LAND SURVEYING: 017976 GEOLOGICAL: 018750

Latham, NY 12110 (518) 273-0055

labellapc.com

300 GIDNEY AVENUE NEWBURGH, NY 12550

1 8/30/2024 SED ADDENDUM 2 NO: DATE: S.E.D. NUMBER: 44-16-00-01-0-006-015 PROJECT NUMBER: 2233600 DRAWN BY: REVIEWED BY:

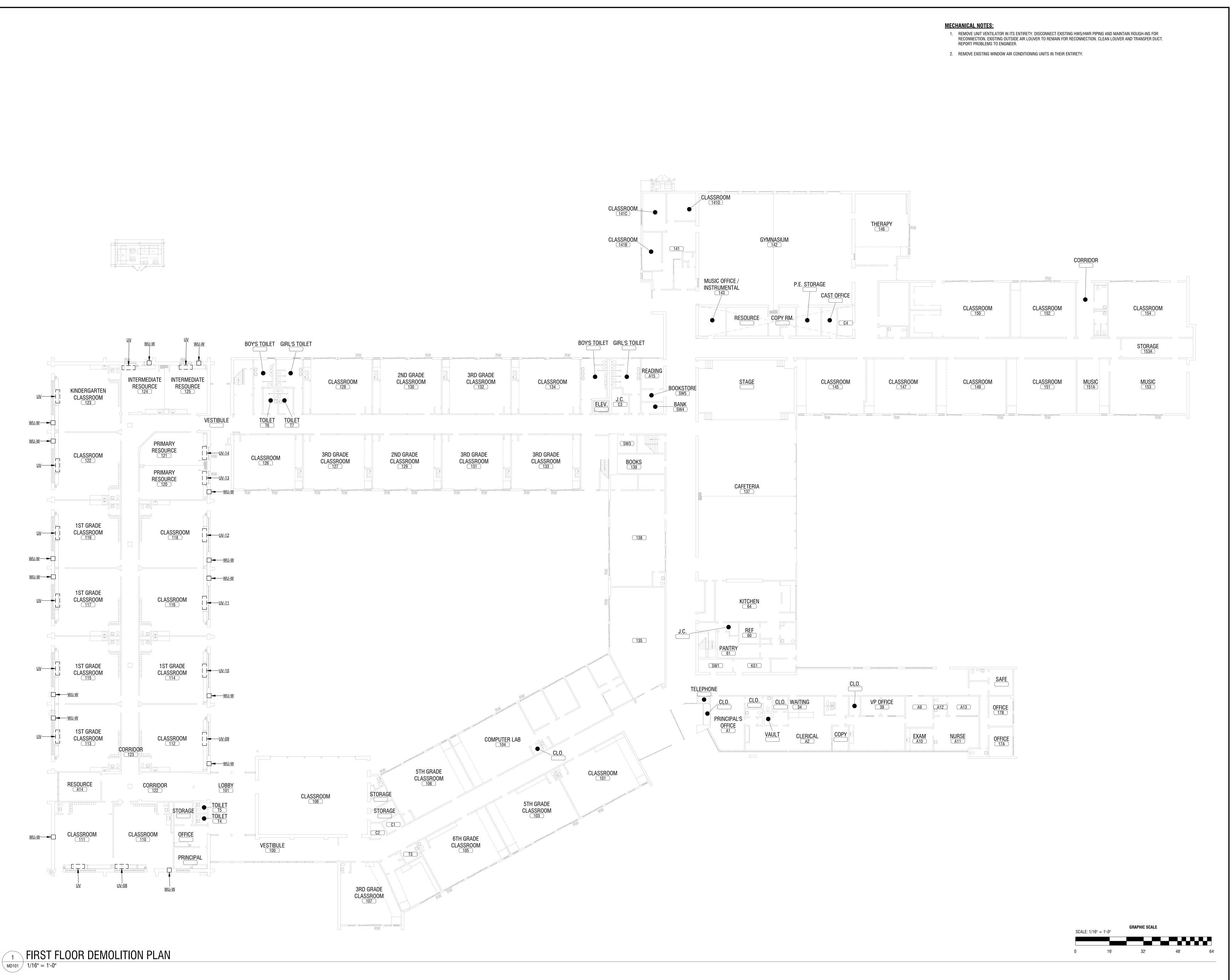
ADDENDUM 2

12/11/2024

MECHANICAL CONTROLS

DRAWING NUMBER:

DRAWING NAME:





CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

# NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



GIDNEY AVENUE MEMORIAL SCHOOL 300 GIDNEY AVENUE NEWBURGH, NY 12550

NO: DATE: DESCRIPTION:

Revisions

S.E.D. NUMBER: 44-16-00-01-0-006-015

PROJECT NUMBER:

2233600

DRAWN BY: DRM

REVIEWED BY: MB

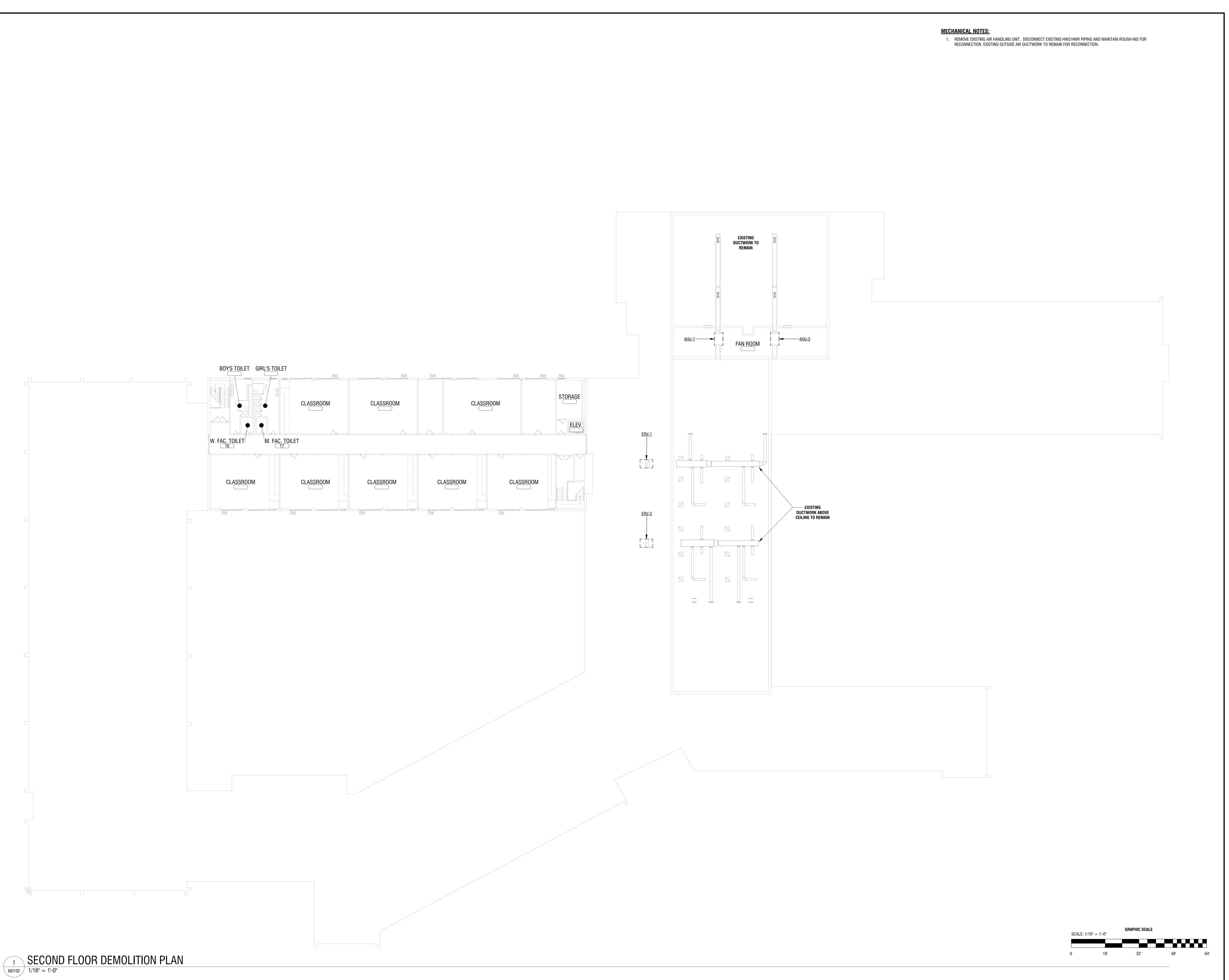
ISSUED FOR:

ADDENDUM 2

DRAWING NAME:

FIRST FLOOR DEMOLITION

DRAWING NUMBER:





\_\_\_\_\_

CERTIFICATE OF AUTHORIZATION NUMBER:
PROFESSIONAL ENGINEERING: 018281 CORPORATE ENGINEERING
LAND SURVEYING: 017976 LICENSE NO. C-0430
GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

### NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



GIDNEY AVENUE MEMORIAL
SCHOOL

300 GIDNEY AVENUE NEWBURGH, NY 12550

 NO:
 DATE:
 DESCRIPTION:

 Revisions
 S.E.D. NUMBER: 44-16-00-01-0-006-015

 PROJECT NUMBER:
 2233600

 DRAWN BY:
 DRM

 REVIEWED BY:
 MB

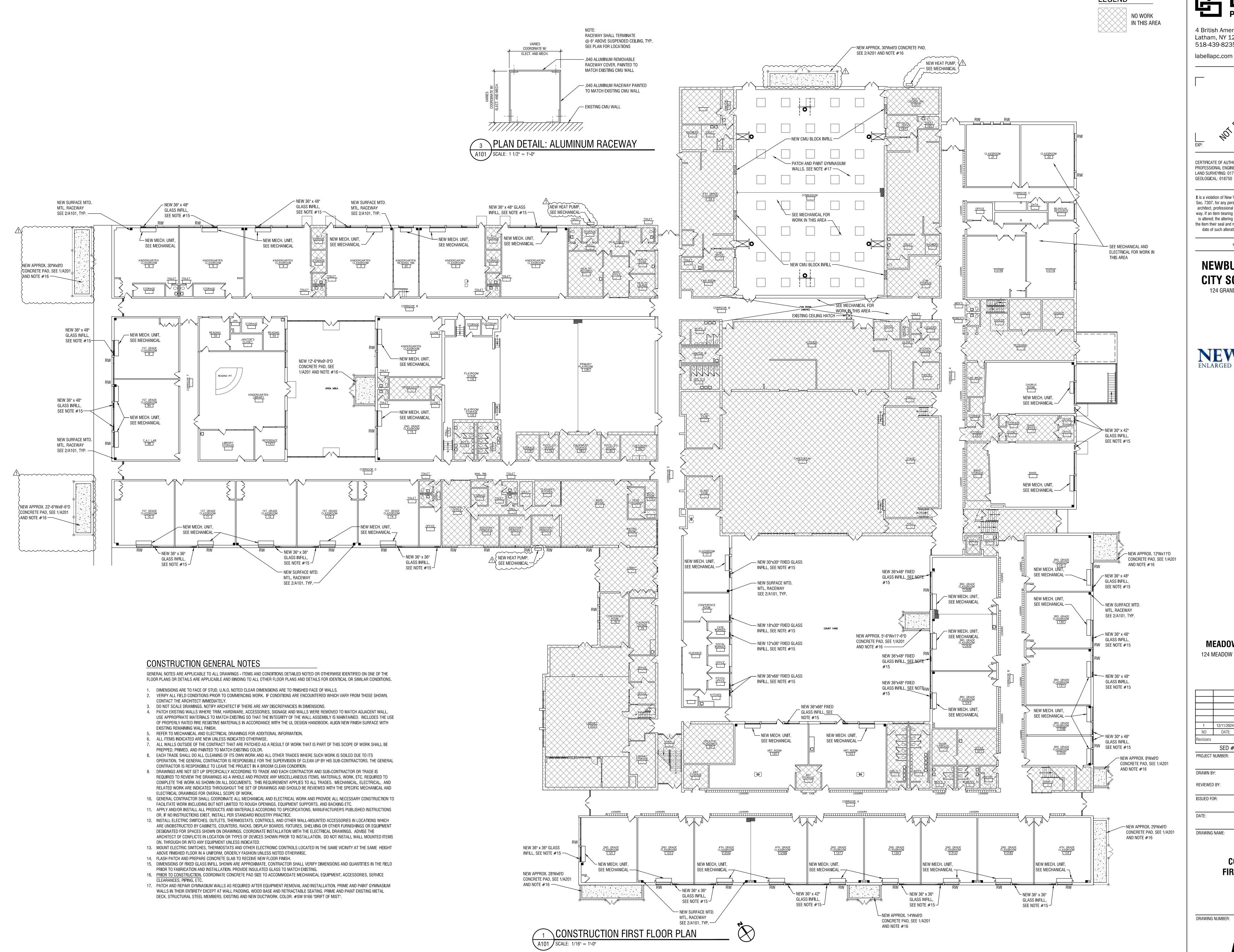
 ISSUED FOR:
 ADDENDUM 2

 DATE:
 12/11/2024

DRAWING NAME:

SECOND FLOOR DEMOLITION PLAN

DRAWING NUMBER



4 British American Boulevard Latham, NY 12110 518-439-8235

CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976

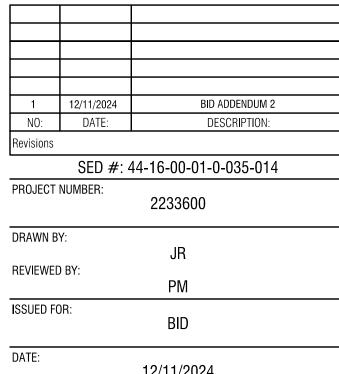
It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates

#### **NEWBURGH ENLARGED** CITY SCHOOL DISTRICT 124 GRAND ST. - NEWBURGH, NY 12550

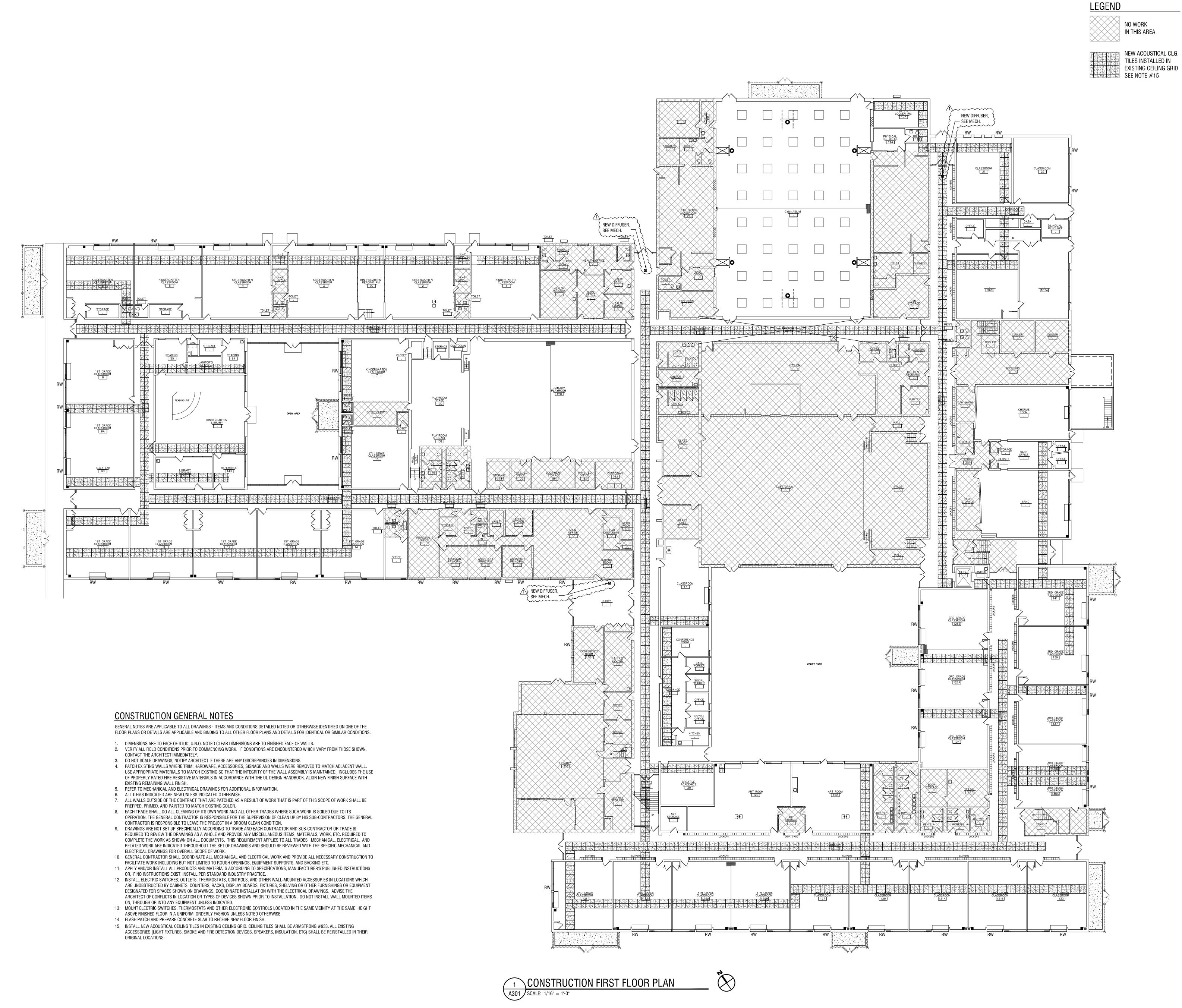


MEADOW HILL GEM SCHOOL 124 MEADOW HILL RD. - NEWBURGH, NY 12550



CONSTRUCTION FIRST FLOOR PLAN

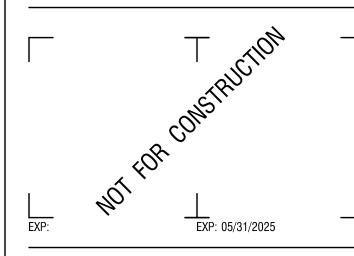
DRAWING NUMBER:



LaBella
Powered by partnership.

4 British American Boulevard

4 British American Boulevard Latham, NY 12110 518-439-8235 labellapc.com



CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976

GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

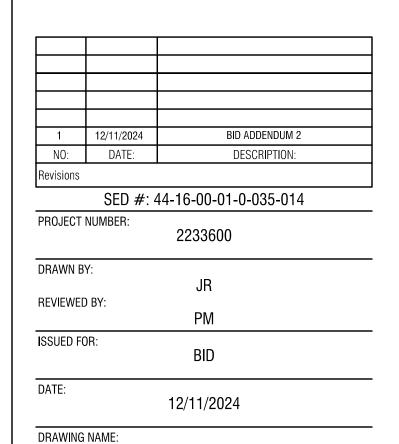
© 2024 LaBella Associates

# NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



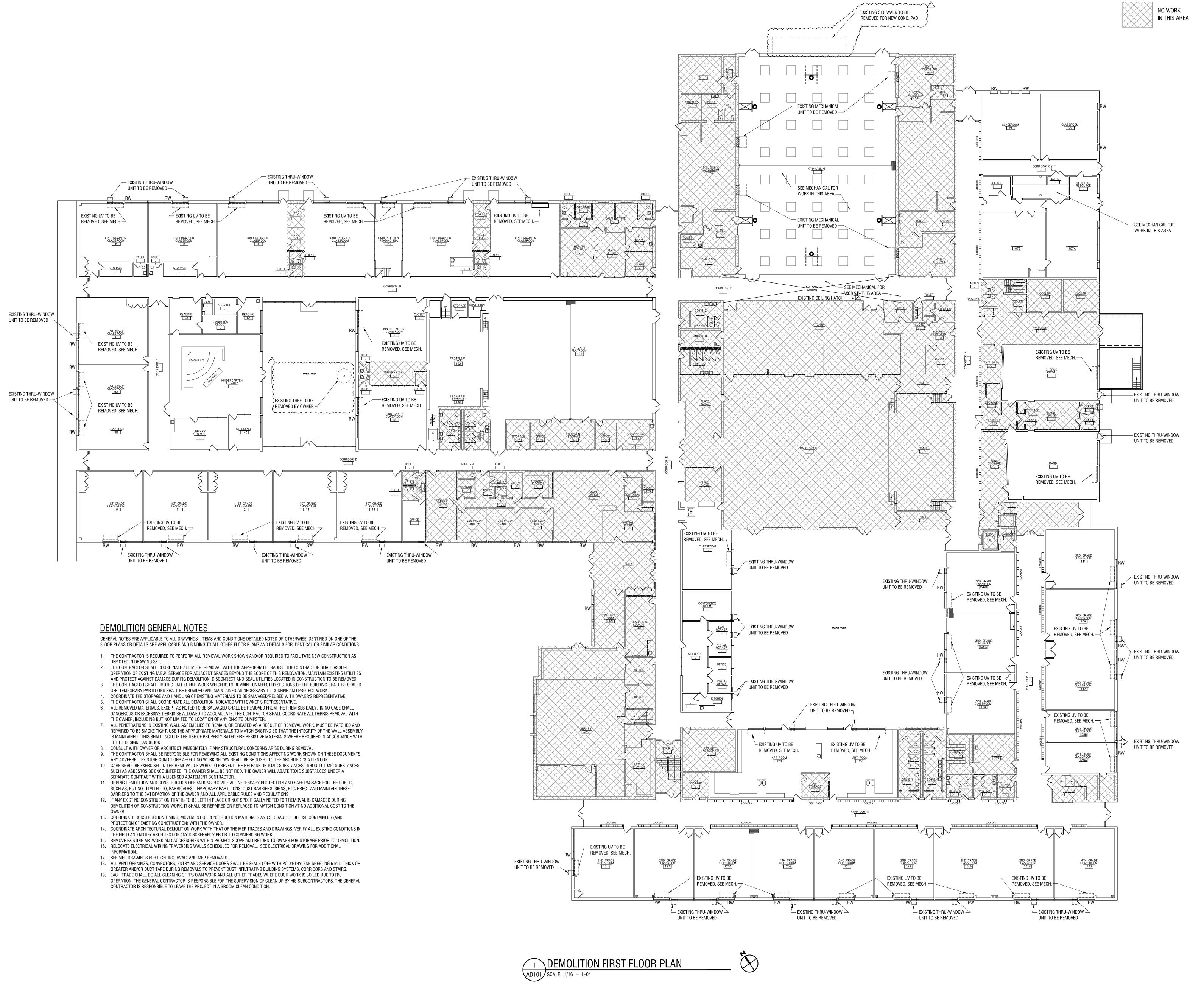
MEADOW HILL GEM SCHOOL 124 MEADOW HILL RD. - NEWBURGH, NY 12550



CONSTRUCTION
FIRST FLOOR
REFLECTED CEILING PLAN

DRAWING NUMBER:

A301



LaBella
Powered by partnership.

4 British American Boulevard Latham, NY 12110 518-439-8235

labellapc.com

T TOR CONSTRUCTION

EYP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976

GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

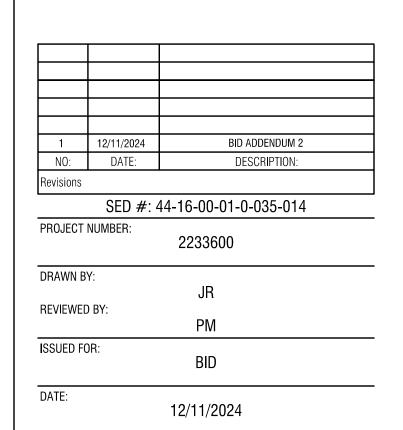
© 2024 LaBella Associates

# NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



MEADOW HILL GEM SCHOOL 124 MEADOW HILL RD. - NEWBURGH, NY 12550

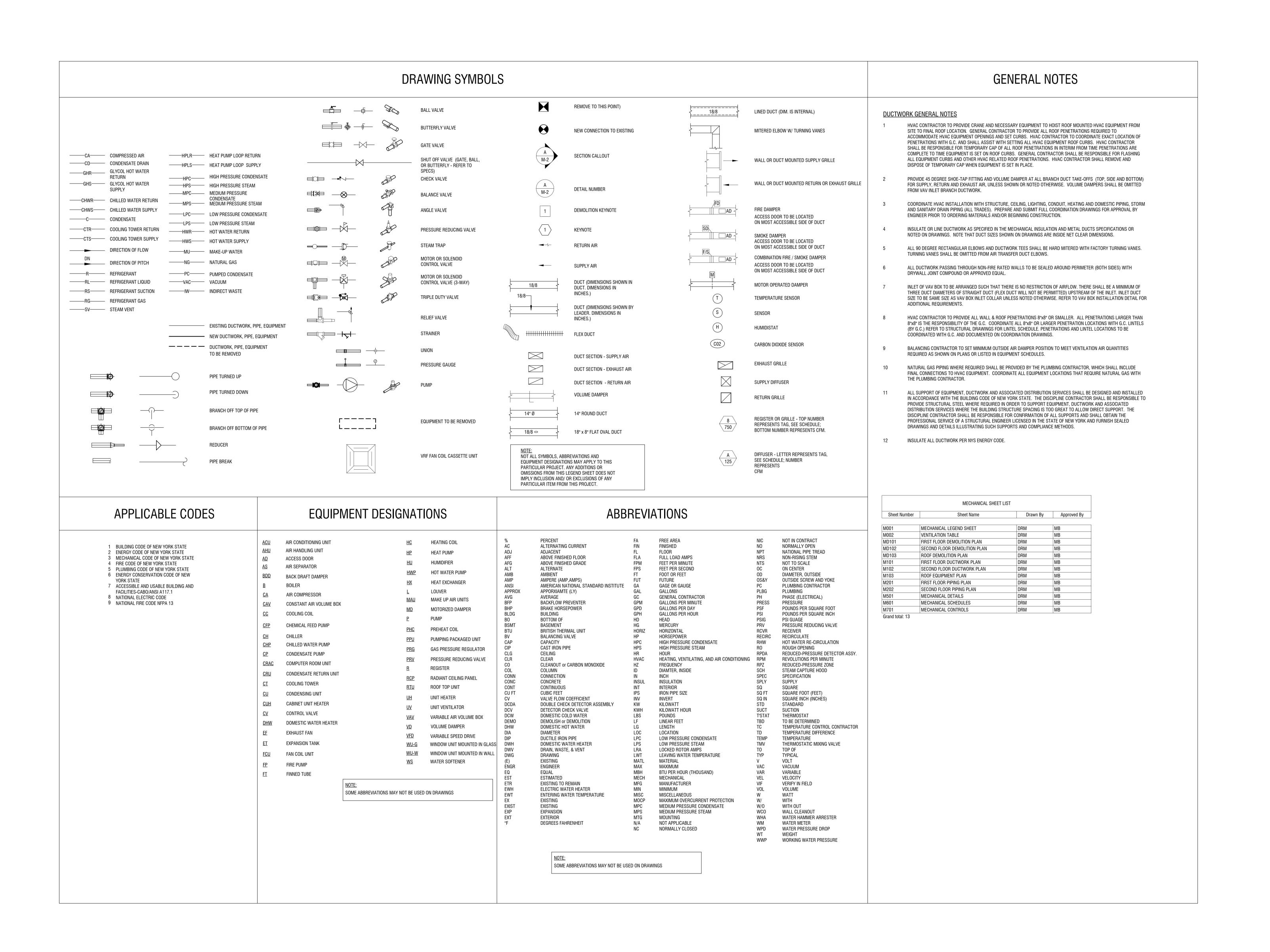


DEMOLITION FIRST FLOOR PLAN

DRAWING NUMBER:

DRAWING NAME:

AD101





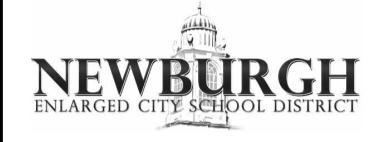
CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

### NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



**MEADOW HILL GEM SCHOOL** 

124 MEADOW HILL ROAD NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:		
Revisions				
S.E.D. NUM	BER: 44-16	-00-01-0-035-014		
PROJECT N	UMBER:	2233600		
DRAWN BY		DRM		
REVIEWED	BY:	MB		
SSUED FOR	₹:	ADDENDUM 2		
DATE:		12/11/2024		

MECHANICAL LEGEND

DRAWING NUMBER:

Room Name	Unit	Square	Type	Type	Occupancy Density/1000sf	Max	OA/person	CFM/SF	Code OA (cfm)	Provided OA (cfm)
and decreases all and a second a		Footage	Туре	Type		Occupancy			(M) 584	F00
1 - Kindergarten Classroom	UV-1	986	Classroom	E - Classrooms (ages 5-8)	25	25	10	0.12	368.32	500
2 - Kindergarten Classroom	ÜV-2	986	Classroom	E - Classrooms (ages 5-8)	25	25	10	0.12	368.32	500
2C - Kindergarten Reading Rm	UV-2C	368	Classroom	E - Classrooms (ages 5-8)	25	10	10	0.12	144.16	210
3 - Kindergarten Classroom	UV-3	990	Classroom	E - Classrooms (ages 5-8)	25	25	10	0.12	368.8	500
4 - Kindergarten Classroom	UV-4	992	Classroom	E - Classrooms (ages 5-8)	25	25	10	0.12	369.04	500
5 - Kindergarten Classroom	UV-5	880	Classroom	E - Classrooms (ages 5-8)	25	22	10	0.12	325.6	500
6 - Kindergarten Classroom	UV-6	880	Classroom	E - Classrooms (ages 5-8)	25	22	10	0.12	325.6	500
7 - Kindergarten Classroom	UV-7	820	Classroom	E - Classrooms (ages 5-8)	25	21	10	0.12	308.4	420
8 - 1st Grade Classroom	UV-8	845	Classroom	E - Classrooms (ages 5-8)	25	22	10	0.12	321.4	470
9A- 1st Grade Classroom	UV-9A	562	Classroom	E - Classrooms (ages 5-8)	25	15	10	0.12	217.44	210
9B - 1st Grade Classroom	UV-9B	562	Classroom	E - Classrooms (ages 5-8)	25	15	10	0.12	217.44	210
10 - 1st Grade Classroom	UV-10	840	Classroom	E - Classrooms (ages 5-8)	25	21	10	0.12	310.8	470
11 - 1st Grade Classroom	UV-11	840	Classroom	E - Classrooms (ages 5-8)	25	21	10	0.12	310.8	470
12 - 1st Grade Classroom	UV-12	840	Classroom	E - Classrooms (ages 5-8)	25	21	10	0.12	310.8	470
13 - 1st Grade Classroom	UV-13	840	Classroom	E - Classrooms (ages 5-8)	25	21	10	0.12	310.8	470
14 - 1st Grade Classroom	UV-14	840	Classroom	E - Classrooms (ages 5-8)	25	21	10	0.12	310.8	470
15 - 1st Grade Classroom	UV-15	830	Classroom	E - Classrooms (ages 5-8)	25	21	10	0.12	309.6	420
17 - Classroom	UV-17	755	Classroom	E - Classrooms (ages 5-8)	25	19	10	0.12	280.6	470
120 - Art Room	UV-120	1088	Art Room	E - Art classroom	20	22	10	0.18	415.84	420
121 - 2nd Grade Classroom	UV-121	790	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.8	470
122 - Art Room	UV-121	1012	Art Room	E - Classicollis (ages 3-6)  E - Art classroom	20	21	10	0.12	392.16	420
123 - 2nd Grade Classroom	UV-123	790	The second control of	E - Classrooms (ages 5-8)	25	20	10	0.18	294.8	470
	**************************************		Classroom			•	75. 65		•	**
124 - 3rd Grade Classroom	UV-124	790	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.8	470
125A - 4th Grade Classroom	UV-125A	790	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.8	470
125B - 4th Grade Classroom	UV-125B	790	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.8	470
126A - 3rd Grade Classroom	UV-126A	790	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.8	470
126B - 3rd Grade Classroom	UV-126B	790	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.8	470
127 - 2nd Grade Classroom	UV-127	790	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.8	470
128 - Primary Playroom	UV-128	5015	Multi-Use Assembly	E - Multiuse assembly	100	315	7.5	0.06	2663.4	2796
129 - 2nd Grade Classroom	UV-129	790	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.8	470
131A - 2nd Grade Classroom	UV-131A	785	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.2	470
131B - 2nd Grade Classroom	UV-131B	785	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.2	470
133 - 2nd Grade Classroom	UV-133	800	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	296	470
135A - 3rd Grade Classroom	UV-135A	420	Classroom	E - Classrooms (ages 5-8)	25	11	10	0.12	160.4	210
135B - 3rd Grade Classroom	UV-135B	420	Classroom	E - Classrooms (ages 5-8)	25	11	10	0.12	160.4	210
137 - 3rd Grade Classroom	UV-137	788	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.56	470
139 - 3rd Grade Classroom	UV-139	788	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.56	470
141 - 3rd Grade Classroom	UV-141	788	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.56	470
220 - 5th Grade	UV-220	900	Classroom	E - Classrooms (ages 5-8)	25	23	10	0.12	338	420
221 - 5th Grade	UV-221	785	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.2	470
222 - 4th Grade	UV-222	800	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	296	500
223 - 5th Grade	UV-223	785	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	294.2	470
224 - Music Room	UV-227	760	Classroom	E - Classrooms (ages 5-8)	25	19	10	0.12	281.2	470
225 - 5th Grade	UV-225	780	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	293.6	470
226 -3rd Grade	UV-226	780	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	293.6	470
227A - 6th Grade Classroom	UV-227A	1020	Classroom	E - Classrooms (ages 5-8)	25	26	10	0.12	382.4	500
228 - 3rd Grade	UV-228	780	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	293.6	470
229 - 6th Grade Classroom	UV-229	1000	Classroom	E - Classrooms (ages 5-8)	25	25	10	0.12	370	470
231 - 6th Grade Classroom	UV-231	1000	Classroom	E - Classrooms (ages 5-8)	25	25	10	0.12	370	470
233 - 6th Grade Classroom	UV-233	1030	Classroom	E - Classrooms (ages 5-8)	25	26	10	0.12	383.6	470
235 - Classroom	UV-235	1250	Classroom	E - Classrooms (ages 5-8)	25	32	10	0.12	470	500
237A - 6th Grade Classroom	UV-237A	590	Classroom	E - Classrooms (ages 5-8)	25	15	10	0.12	220.8	210
237B - 6th Grade Classroom	UV-237B	620	Classroom	E - Classrooms (ages 5-8)	25	16	10	0.12	234.4	210
239 - 4th Grade Classroom	UV-239	800	Classroom	E - Classrooms (ages 5-8)	25	20	10	0.12	296	470
Chorus Room	UV-109	985	Classroom	E - Classrooms (ages 5-8)	25	25	10	0.12	368.2	420
Band	UV-110	1168	Classroom	E - Classrooms (ages 5-8)	25	30	10	0.12	440.16	470
Resource	UV-224	375	Classroom	E - Classrooms (ages 5-8)	25	10	10	0.12	145	210
Gym	T-5 & T-6	6625	Multi-Use Assembly	E - Multiuse assembly	100	600	7.5	0.06	4897.5	4960
Sylli	RTU-H-2 &		IVIGITI 036 ASSETTIBITY	L WIGHTIGSE assembly	100	300	7.5	0.00	-UJ1.J	7,500
Cafetorium	RTU-H-2 & RTU-H-3 & RTU-H-4	4910	Dining Room	FB - Dining rooms	70	300	7.5	0.18	3133.8	3130
	-		<b>1</b>		70	1	-	0.06	1	4



CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

# NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



**MEADOW HILL GEM SCHOOL** 

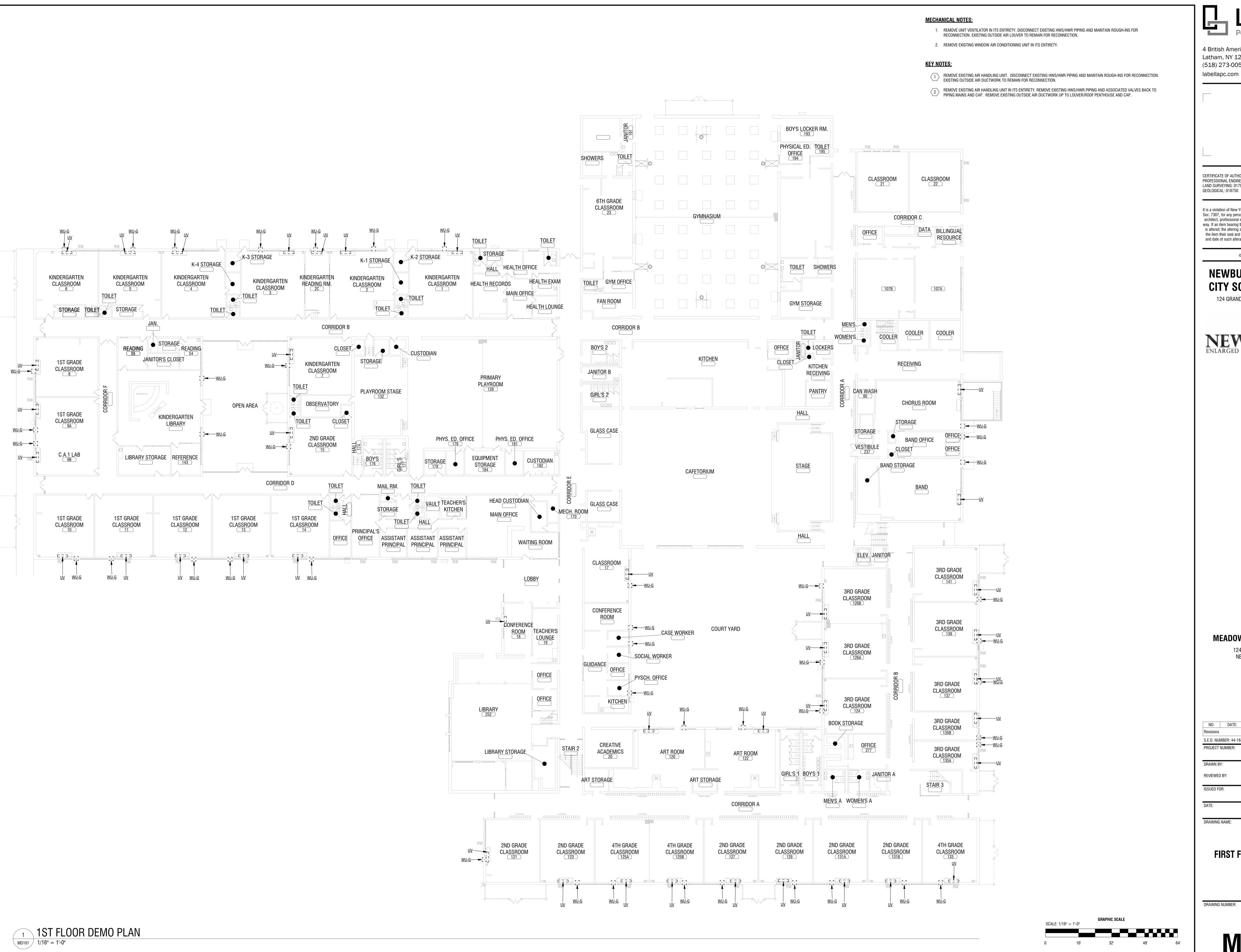
124 MEADOW HILL ROAD NEWBURGH, NY 12550

NO:	DATE:	DESCRIPTION:
Revisions		
S.E.D. NUM	1BER: 44-16-0	00-01-0-035-014
PROJECT N	IUMBER:	2233600
DRAWN BY	<b>'</b> :	DRM
REVIEWED	BY:	MB
ISSUED FO	R:	ADDENDUM 2
DATE:		12/11/2024

VENTILATION TABLE

DRAWING NUMBER

DRAWING NAME:



CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

### **NEWBURGH ENLARGED** CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

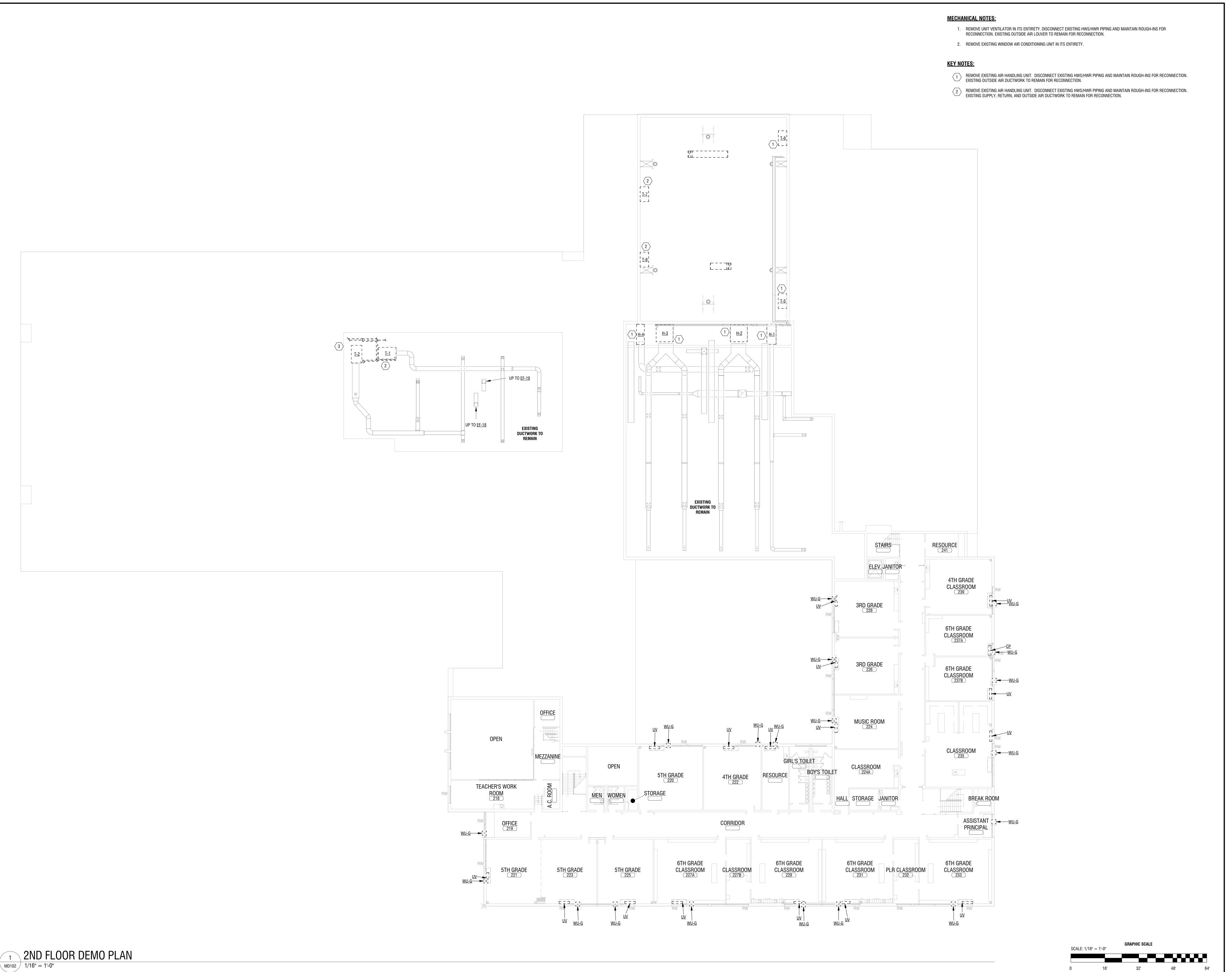


**MEADOW HILL GEM SCHOOL** 124 MEADOW HILL ROAD NEWBURGH, NY 12550

NO: DATE: S.E.D. NUMBER: 44-16-00-01-0-035-014 PROJECT NUMBER: DRAWN BY: REVIEWED BY:

ADDENDUM 2

FIRST FLOOR DEMOLITION





CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

# NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



**MEADOW HILL GEM SCHOOL** 

124 MEADOW HILL ROAD NEWBURGH, NY 12550

NO: DATE: DESCRIPTION:

Revisions

S.E.D. NUMBER: 44-16-00-01-0-035-014

PROJECT NUMBER:

2233600

DRAWN BY: DRM

REVIEWED BY: MB

ISSUED FOR:
ADDENDUM 2

DATE: 12/11/2024

DRAWING NAME:

SECOND FLOOR DEMOLITION PLAN

DRAWING NUM



CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

### **NEWBURGH ENLARGED** CITY SCHOOL DISTRICT

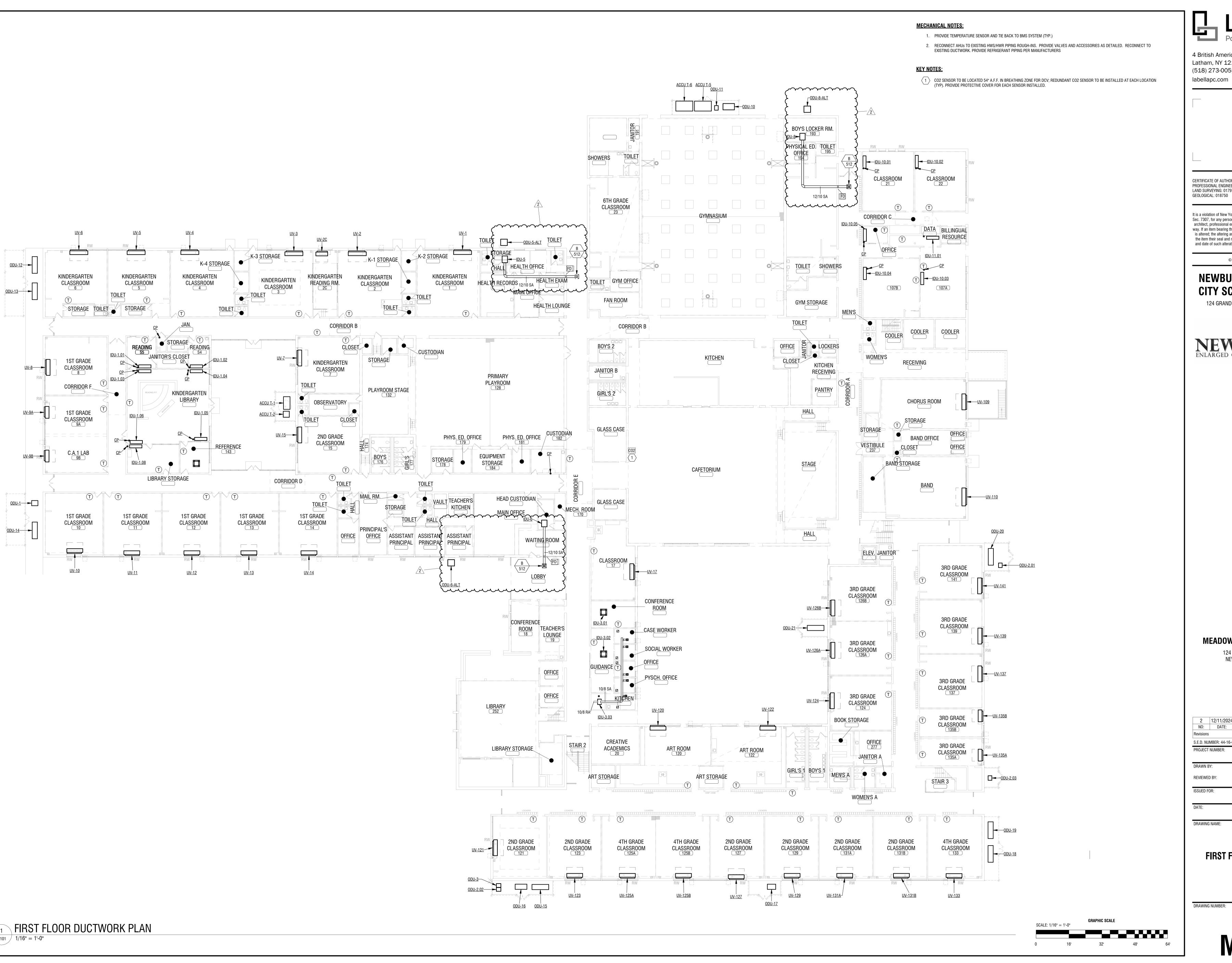
124 GRAND ST. - NEWBURGH, NY 12550



**MEADOW HILL GEM SCHOOL** 124 MEADOW HILL ROAD NEWBURGH, NY 12550

NO: DATE: S.E.D. NUMBER: 44-16-00-01-0-035-014 PROJECT NUMBER: DRAWN BY: REVIEWED BY: ADDENDUM 2

**ROOF DEMOLITION PLAN** 





4 British American Boulevard Latham, NY 12110 (518) 273-0055

CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

### **NEWBURGH ENLARGED** CITY SCHOOL DISTRICT

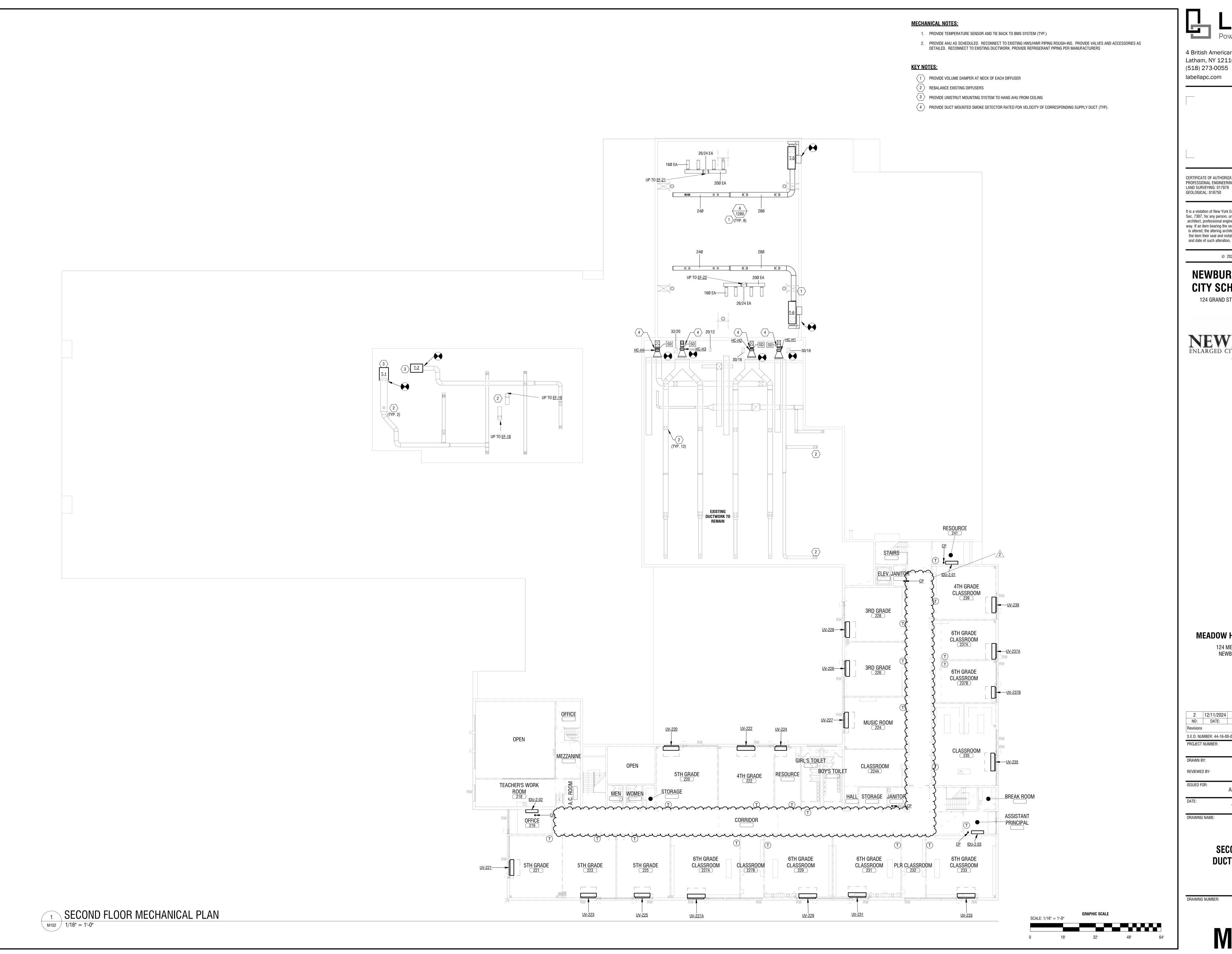
124 GRAND ST. - NEWBURGH, NY 12550



**MEADOW HILL GEM SCHOOL** 124 MEADOW HILL ROAD NEWBURGH, NY 12550

**BID ADDENDUM 2** NO: DATE: S.E.D. NUMBER: 44-16-00-01-0-035-014 PROJECT NUMBER: DRAWN BY: REVIEWED BY: ISSUED FOR: ADDENDUM 2

FIRST FLOOR DUCTWORK



CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

### **NEWBURGH ENLARGED** CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



**MEADOW HILL GEM SCHOOL** 

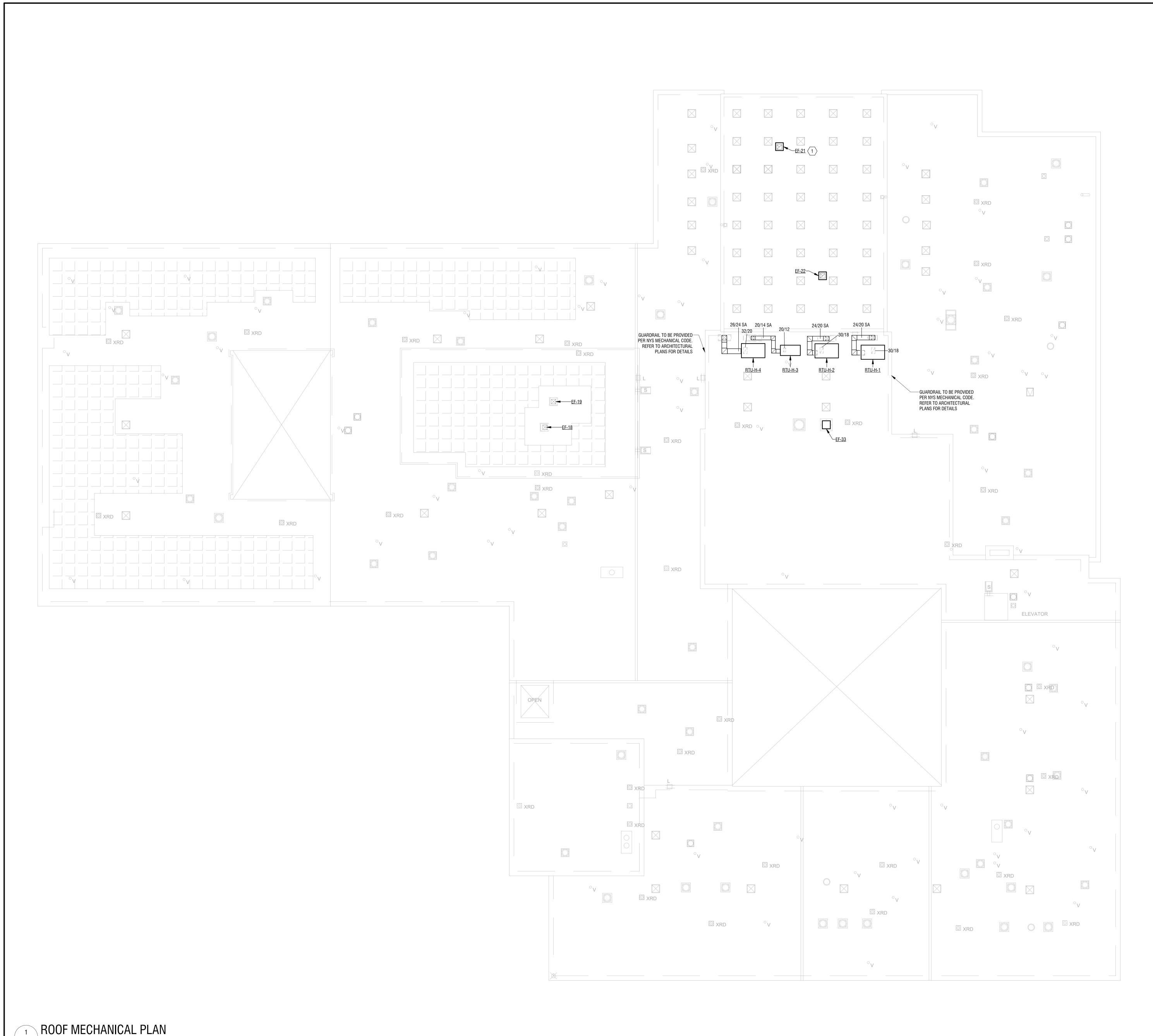
124 MEADOW HILL ROAD NEWBURGH, NY 12550

2 12/11/2024 NO: DATE: BID ADDENDUM 2 S.E.D. NUMBER: 44-16-00-01-0-035-014 PROJECT NUMBER: DRAWN BY: REVIEWED BY: ISSUED FOR: ADDENDUM 2

SECOND FLOOR

**DUCTWORK PLAN** 

DRAWING NUMBER:





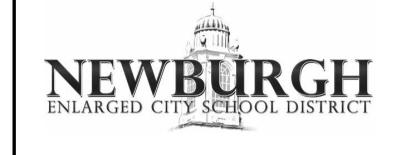
CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

### **NEWBURGH ENLARGED** CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



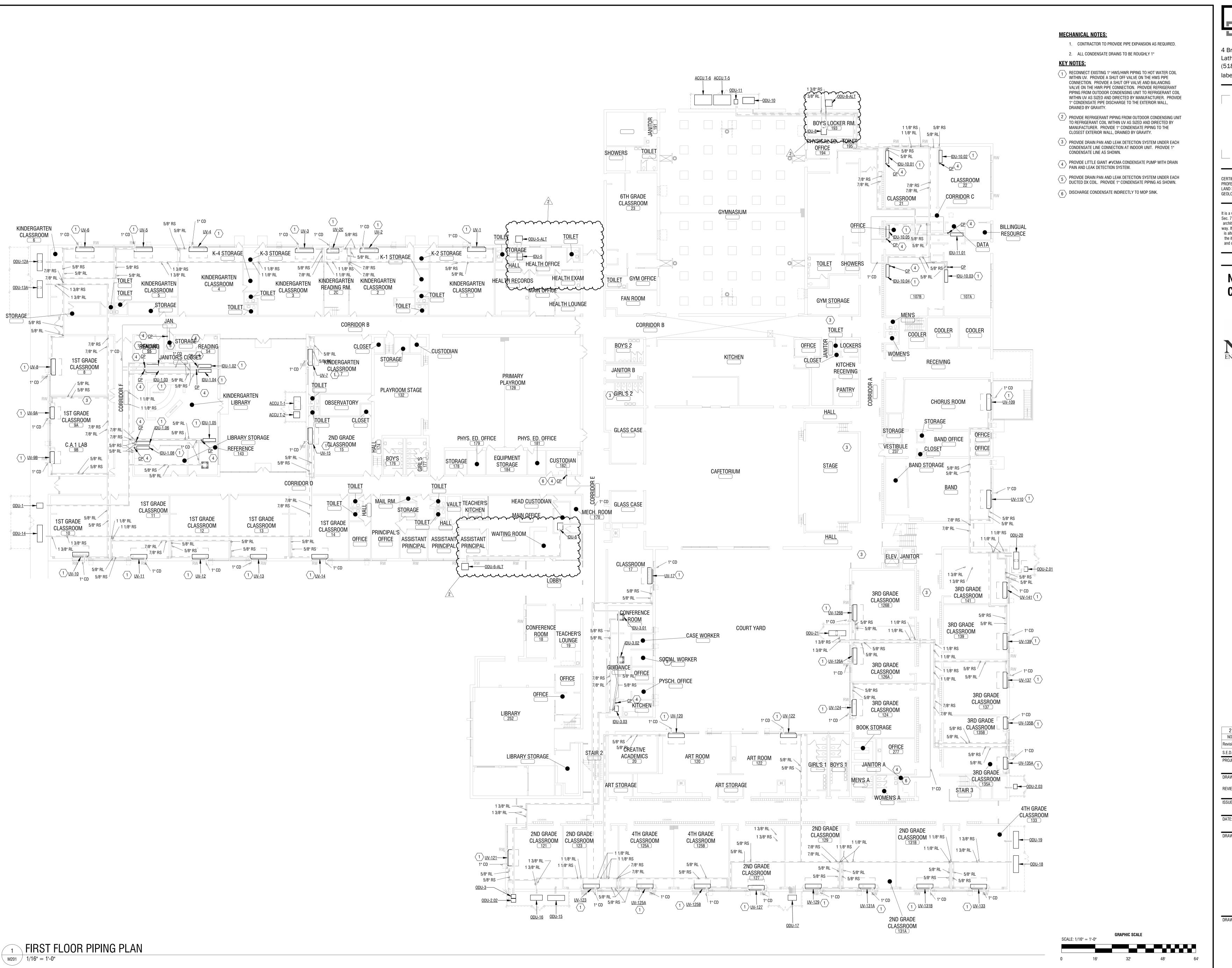
**MEADOW HILL GEM SCHOOL** 

124 MEADOW HILL ROAD NEWBURGH, NY 12550

NO: DATE: S.E.D. NUMBER: 44-16-00-01-0-035-014 PROJECT NUMBER: DRAWN BY: REVIEWED BY: ISSUED FOR:

ADDENDUM 2

**ROOF EQUIPMENT PLAN** 



LaBella
Powered by partnership.

4 British American Boulevard Latham, NY 12110 (518) 273-0055 labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

# NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



**MEADOW HILL GEM SCHOOL** 

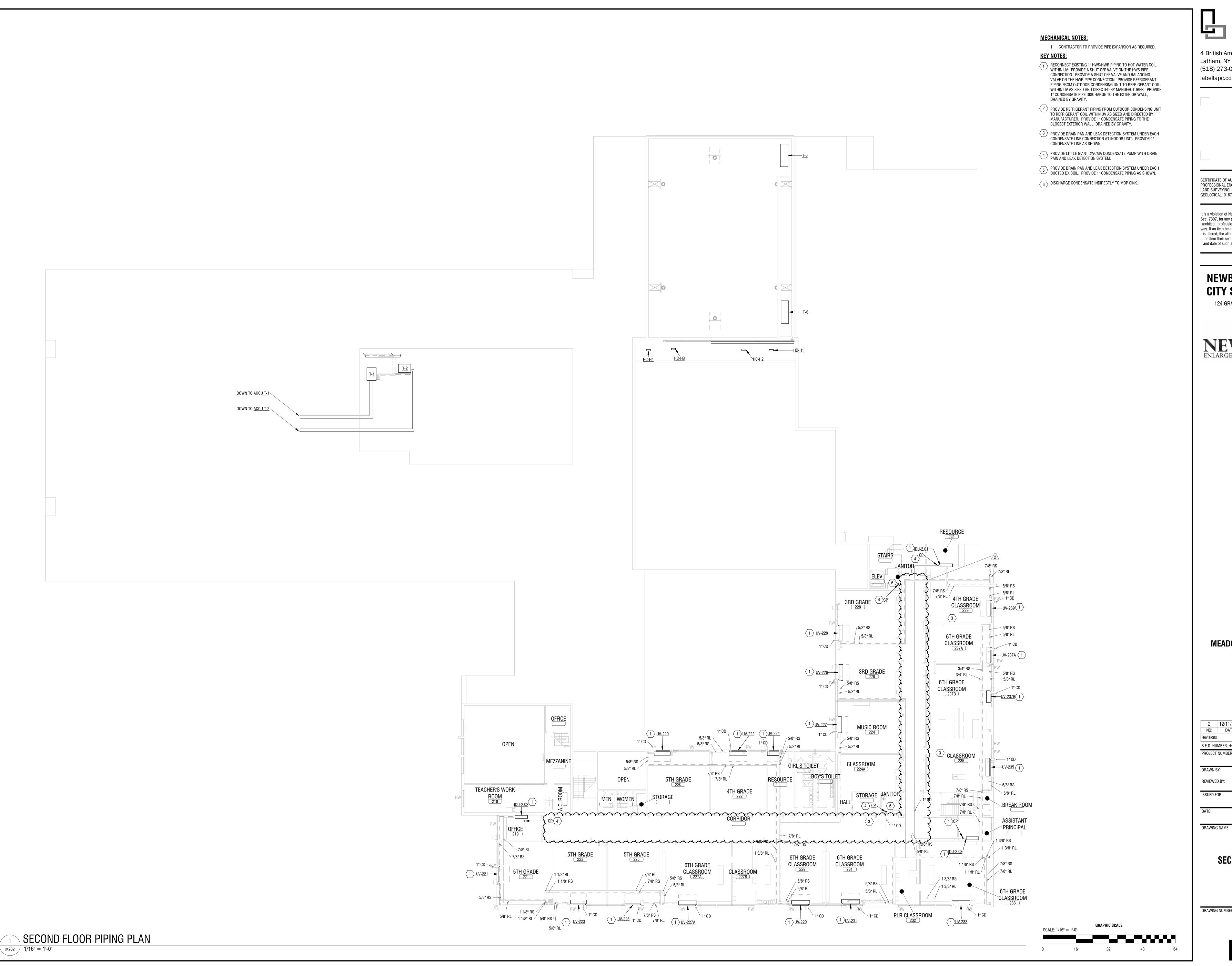
124 MEADOW HILL ROAD NEWBURGH, NY 12550

2	12/11/2024	BID ADDENDUM 2
NO:	DATE:	DESCRIPTION:
Revisions	3	
S.E.D. NI	JMBER: 44-16-0	0-01-0-035-014
PROJEC1	NUMBER:	2233600
DRAWN	BY:	DRM
REVIEWE	D BY:	MB
NEVIEVVE		

DRAWING NAME:

FIRST FLOOR PIPING PLAN

DRAWING NUMBER:



CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

### **NEWBURGH ENLARGED** CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

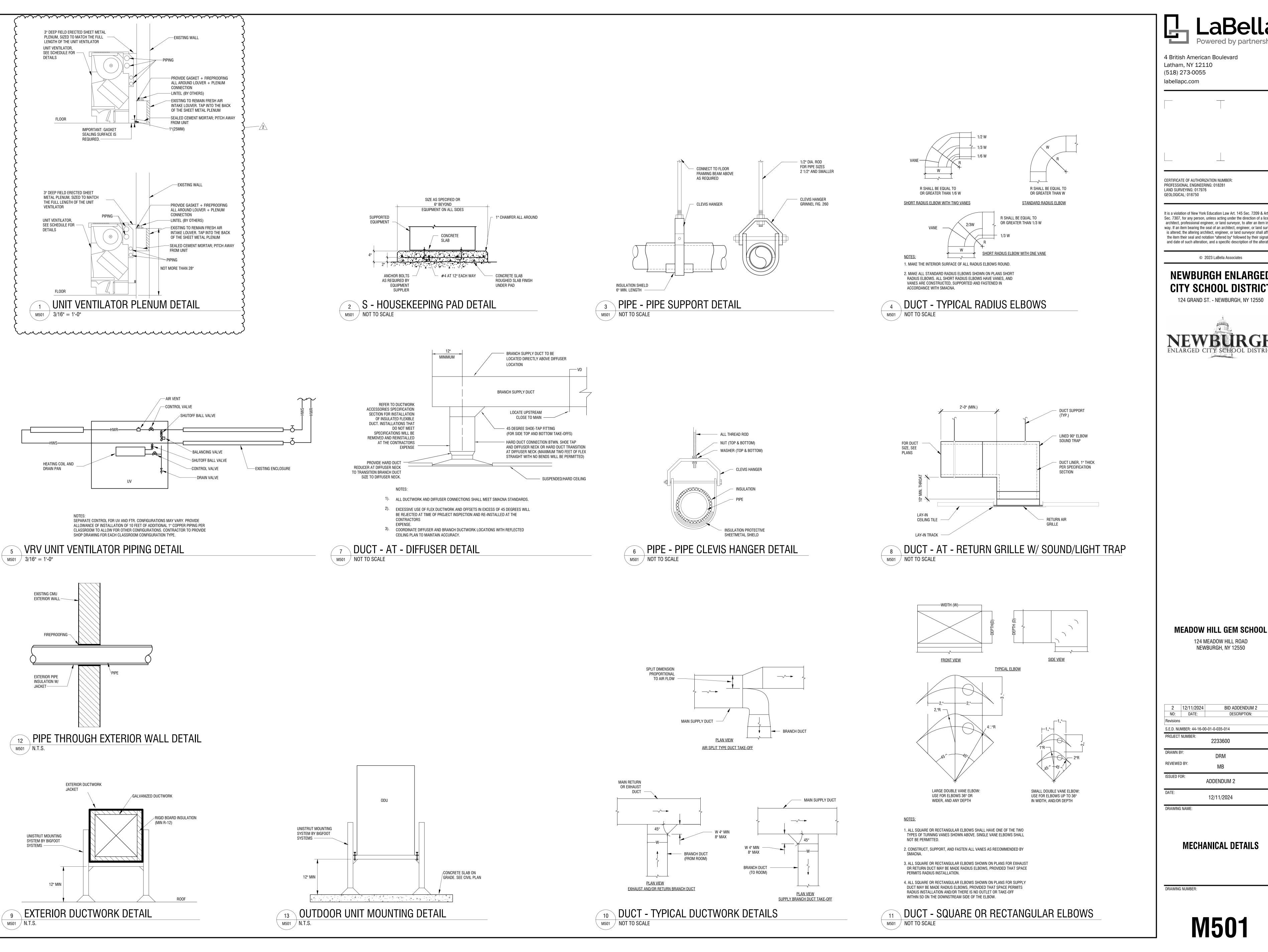


**MEADOW HILL GEM SCHOOL** 

124 MEADOW HILL ROAD NEWBURGH, NY 12550

BID ADDENDUM 2 S.E.D. NUMBER: 44-16-00-01-0-035-014 PROJECT NUMBER: DRAWN BY: REVIEWED BY: ADDENDUM 2

**SECOND FLOOR PIPING** 



CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

### **NEWBURGH ENLARGED** CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



124 MEADOW HILL ROAD NEWBURGH, NY 12550

2 | 12/11/2024 | **BID ADDENDUM 2** NO: DATE: DESCRIPTION: Revisions S.E.D. NUMBER: 44-16-00-01-0-035-014 PROJECT NUMBER: 2233600 DRAWN BY: REVIEWED BY: ISSUED FOR: ADDENDUM 2

**MECHANICAL DETAILS** 

12/11/2024

DRAWING NUMBER:

						SENSIBLE						BASIS OF	DESIGN	
			AIRFLOW	HEATING	TOTAL COOLING	COOLING		WEIGHT	VOLTAGE/PHAS			Briolo of	DEGIGIT	
TAG	SERVED BY	TYPE	(H/M/L)	CAPACITY (BTU/H)	CAPACITY (BTU/H)	CAPACITY (BTU/H)	DIMENSIONS (H X W X D)	(LBS)	E	MCA	MOP	MANUFACTURER	MODEL NUMBER	NOTES
U-1.01	ODU-1	WALL MOUNTED	260/160	8,700	7,500	6,000	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.3	15	DAIKIN	FXAQ07PVJU	1,2
U-1.02	ODU-1	WALL MOUNTED	260/160	8,700	7,500	6,000	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.3	15	DAIKIN	FXAQ07PVJU	1,2
U-1.03	ODU-1	WALL MOUNTED	290/180	14,000	12,000	8,700	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.4	15	DAIKIN	FXAQ12PVJU	1,2
U-1.04	ODU-1	WALL MOUNTED	290/180	14,000	12,000	8,700	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.4	15	DAIKIN	FXAQ12PVJU	1,2
U-1.05	ODU-1	WALL MOUNTED	290/180	14,000	12,000	8,700	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.4	15	DAIKIN	FXAQ12PVJU	1,2
U-1.06	ODU-1	WALL MOUNTED	290/180	14,000	12,000	8,700	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.4	15	DAIKIN	FXAQ12PVJU	1,2
U-1.07	ODU-1	2X2 CASSETTE	441/406/353	13,500	12,000	-	9-11/16" x 33-1/16" x 33-1/16"	42	208V/1PH	-	15	DAIKIN	FXFA12AAVJU	2,3
U-1.08	ODU-1	WALL MOUNTED	260/160	8,700	7,500	6,000	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH	0.3	15	DAIKIN	FXAQ07PVJU	1,2
U-2.01	ODU-2	WALL MOUNTED	434/311/247	13,400	13,300	10,600	11-1/4" X 30-5/16" X 8-3/4"	18	208V/1PH	0.4	15	DAIKIN	FTX12NMVJU	1,2
U-2.02	ODU-2	WALL MOUNTED	434/311/247	13,400	13,300	10,600	11-1/4" X 30-5/16" X 8-3/4"	18	208V/1PH	0.4	15	DAIKIN	FTX12NMVJU	1,2
U-2.03	ODU-2	WALL MOUNTED	434/311/247	13,400	13,300	10,600	11-1/4" X 30-5/16" X 8-3/4"	18	208V/1PH	0.4	15	DAIKIN	FTX12NMVJU	1,2
U-3.01	ODU-3	2X2 CASSETTE	441/406/353	13,500	12,000	-	9-11/16" x 33-1/16" x 33-1/16"	42	208V/1PH	-	15	DAIKIN	FXFA12AAVJU	2,3
U-3.02	ODU-3	2X2 CASSETTE	441/406/353	13,500	12,000	-	9-11/16" x 33-1/16" x 33-1/16"	42	208V/1PH	-	15	DAIKIN	FXFA12AAVJU	2,3
U-3.03	ODU-3	DUCTED CONCEALED	600/512/406	20,840	18,000	13,300	9-5/8"X21-11/16"X31-1/2"	77	208V/1PH	1.6	15	DAIKIN	FXSQ18TAVJU	2,3
DU-5	ODU-4-ALT	FAN COIL UNIT	635 / 565 / 512	20,600	17,700	-	9–11/16 × 39–3/8 × 31–1/2	77	208V/1PH	1.9	15	DAIKIN	FBQ18TBVJU	1,2,3,4,5
DU-6	ODU-5-ALT	FAN COIL UNIT	635 / 565 / 512	20,600	17,700	-	9–11/16 × 39–3/8 × 31–1/2	77	208V/1PH	1.9	15	DAIKIN	FBQ18TBVJU	1,2,3,4,5
DU-8	ODU-7-ALT	FAN COIL UNIT	635 / 565 / 512	20,600	17,700	-	9–11/16 × 39–3/8 × 31–1/2	77	208V/1PH	1.9	15	DAIKIN	FBQ18TBVJU	1,2,3,4,5
J-10.01	ODU-10	WALL MOUNTED	635/470	26,500	24,000	18,000	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH	0.4	15	DAIKIN	FXAQ24PVJU	1,2
J-10.02	ODU-10	WALL MOUNTED	635/470	26,500	24,000	18,000	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH	0.4	15	DAIKIN	FXAQ24PVJU	1,2
J-10.03	0DU-10	WALL MOUNTED	635/470	26,500	24,000	18,000	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH	0.4	15	DAIKIN	FXAQ24PVJU	1,2
J-10.04	ODU-10	WALL MOUNTED	635/470	26,500	24,000	18,000	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH	0.4	15	DAIKIN	FXAQ24PVJU	1,2
J-10.05	ODU-10	WALL MOUNTED	635/470	8,500	7,500	6,300	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH	0.4	15	DAIKIN	FXAQ07PVJU	1,2
J-11.01	ODU-11	WALL MOUNTED	316/247/132	N/A	12,000	10,900	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH	0.4	15	DAIKIN	FTK12B	1,2
ES: INTEGRA PROVIDE PROPOSE	TE INTO BACNE CONDENSATE I ED AS AN ADD/A	T BMS SYSTEM (SEE PUMP FOR EACH WAL	CONTROLS DRA L MOUNTED UN	WINGS) IT	12,000	10,900	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH	0.4	15	DAIKIN	FTK12B	1,2

							AIR CO	OLED (	CONDENSING U	NITS (ACCU)								
							COOLING		SOUND LEVEL	ELECTR	ICAL		WEIGHT(	REFRIGERA	LINE SIZES (IN)	BASIS OI	F DESIGN	
TAG	SERVES	LOCATION	NOMINAL TONS	COMPRESSORS	STAGES	MBH	AMBIENT DB	EER	(dbA)	SUPPLY VOLTAGE	MCA	MOP	(LBS)	(1	, ,	MANUFACTURER	MODEL NUMBER	NOTES
ACCU T-1	PLAYROOM WEST AND STAGE	R00F	15	2	2	143	95	14.2		208V/3PH	53	80	647	R-32	1.625 / 0.625	DAIKIN	TBD	1,2,3,4
ACCU T-2	PLAYROOM EAST	R00F	12	1	2	115	95	11.2	84.7	208V/3PH	47.7	80	345 (	R-32	1.625 / 0.625	DAIKIN	TBD	1,2,3,4
ACCU T-5	GYM	ROOF	20	3	4	253	95	12.3	86	208V/3PH	95.8	125	1891	R-32	.38 (2) / 0.62 (2)	DAIKIN	TBD	1,2,3,4
ACCU T-6	GYM	ROOF	20	3	4	253	95	12.3	86	208V/3PH	95.8	125	1891	R-32	38 (2) / 0.62 (2)	DAIKIN	TBD	1,2,3,4
	2-2-2-2	>	2-0-0-0			2-0-0-	0-0-0-0	\- <u></u>	$\overline{}$					$\overline{}$				

. COMPRESSOR WARRANTY - 5 YEARS PARTS WARRANTY - 1 YEAR LOW AMBIENT TO 45 DEGREES PROVIDE APR VALVE PER CIRCUIT 5. UNITS TO BE PRICED BASED ON 2025 NATIONAL EPA STANDARDS FOR REFRIGERANT. UNITS TO UTILIZE R-32 REFRIGERANT OR EQUAL.
6. ACCU'S TO BE PROVIDED WITH LOCAL DISCONNECT BY ELECTRICAL CONTRACTOR.

													AIR H	ANDI I	NG UNITS												
	AIR HANDLING UNITS    FAN   FAN   HW HEATING   DX COOLING   ELECTRICAL   BASIS OF DESIGN																										
TAG	LOCATION						,	GPM				LWT	PD (FT)	МВН	, , ,	(DB/WB)	COOLING (MBH)	(MBH)	V/PH						MANUFACTURER		
T-1	STAGE	PLAYROOM WEST AND STAGE	3130	3600	1746	349	0.8	13.7	36.6	87.3	180	150	15.64	200	84.8 / 71.9	60.9 / 59.8	93.9	150.3	208V/3PH	2 @ 4.42	20.8	1.27	26	35	DAIKIN	BCHE0401	1,2,3,4
T-2	STAGE	PLAYROOM EAST	1885	2600	1320	264	0.8	10.1	34.9	87.0	180	150	10.33	148.1	85.8 / 72.0	60.8 / 59.6	71.1	111	208V/3PH	4.42	11.5	0.96	14.4	25	DAIKIN	BCHE0301	1,2,3,4
T-5	GYM	GYM	3312.5	5130	2480	496	0.8	16.8	37.2	83.2	180	150	4	257.9	84.9 / 70.3	57.0 / 55.5	156.5	245	208V/3PH	2 @ 2.1	11.4	2.8	12.8	15	DAIKIN	CAH015GDCM	1,3,4
T-6	GYM	GYM	3312.5	5130	2480	496	0.8	16.8	37.2	83.2	180	150	4	257.9	84.9 / 70.3	57.0 / 55.5	156.5	245	208V/3PH	2@21	11.4	2.8	12.8	15	DAIKIN	CAH015GDCM	1.3.4

### 

CONTROLS BY PROJECT CONTROLS CONTRACTOR HORIZONTAL UNITS WITH END SUPPLY, END OA, AND BOTTOM RA

PROVIDE MIXING BOX AND MERV 13 FILTERS HORIZONTAL UNITS WITH END SUPPLY, TOP OA, AND BOTTOM RA 2 5. PROVIDE BACKUP MERV 13 FILTER

www....

								EXHAUST FAN	N							
				TSP								NOISE		BASIS 0	F DESIGN	
TAG	SERVES	TYPE	AIRFLOW CFM	IN.WG	DRIVE	DIMENSIONS	RPM	MOTOR HP	FLA	MOP	VOLTAGE/PHASE	(SONES)	CONTROL	MANUFACTURER	MODEL NUMBER	NOTES
EF-18	PLAYR00M	ROOF DOWNBLAST	1700	0.25	DIRECT	22" x 22"		1/2	6.6	15	115V/1PH	9	0-10 vdc	GREENHECK	G-140-VG	1,2,3,5
EF-19	PLAYR00M	ROOF DOWNBLAST	1600	0.25	DIRECT	22" x 22"		1/2	6.6	15	115V/1PH	9	0-10 vdc	GREENHECK	G-140-VG	1,2,3,5
EF-21	GYM	ROOF DOWNBLAST	4455	0.25	BELT	40" x 40"		1/2	9.8	20	115V/1PH	6.4	VFD	GREENHECK	GB-300-3140XQD	1,2,3,4
															DRI	
EF-22	GYM	ROOF DOWNBLAST	4455	0.25	BELT	40" x 40"		1/2	9.8	20	115V/1PH	6.4	VFD	GREENHECK	GB-300-3140XQD	1,2,3,4
															DRI	
EF-33	KITCHEN	ROOF DOWNBLAST	5600	0.25	BELT	41.5" x 41.5"	460	1.0	8.8	15	208V/1PH	8.2	VFD	GREENHECK	GB-300-15140X3Q	1,2,3,4

#### <u>NOTES:</u>

1. PROVIDE 12 INCH INSULATED ROOF CURB 2. PROVIDE BACKDRAFT DAMPER

3. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH 4. PROVIDE VFD TO BE MOUNTED INDOORS ECM MOTOR

1. UNIT TO BE INSTALLED ON NEW CURB AND UTILIZE EXISTING OPENING THROUGH ROOF STRUCTURE

					DUCTE	ED HEATING CO	OIL				
							FACE VELOCITY		BASIS OF	DESIGN	
TAG	CFM	EAT / LAT	CAPACITY	EWT/LWT	<b>FLOWRATE</b>	FACE AREA	(FPM)	# ROWS	MANUFACTURER	MODEL NUMBER	NOTES
HC-H1	3250	58F / 90F	112,320 BTUH	160/140	11.2 GPM	6.5 SQFT	500	1			
HC-H2	3250	58F / 90F	112,320 BTUH	160/140	11.2 GPM	6.5 SQFT	500	1			
HC-H3	1500	58F / 90F	51,840 BTUH	160/140	5.2 GPM	3.0 SQFT	500	1			
HC-H4	4500	58F / 90F	155 520 BTUH	160/140	15.5 GPM	9.0 SQFT	500	1			

									DX COOLING			HOT GAS	S REHEAT					ENER	GY RECOVER	Y WHEEL								ELECTRICA	L		BASIS OF DES	GN	
																SUI	MER					WINTER	R										
														OA				EFFECT	IVENESS	OA				EFFECTIVE	NESS								
								SENSIBLE						DB/WB	RA DB/WB	MIXED AIR	REMOVED			DB/WB RA D	B/WB   MIX	ED AIR F	REMOVED		DIMENSIONS	WEIGHT							~~~~
TAG	LOCATION	SERVICE	TOTAL CFM	OA CFM	ESP	EER/IEER	TOTAL CAPACITY	CAPACITY	REFIGERANT	EAT DB/WB	LAT DB/WB	CAPACITY	LAT DB/WE	EAT	EAT	DB/WB LAT	CAPACITY	TOTAL	SENSIBLE	EAT E	AT DB/\	WB LAT C	CAPACITY	TOTAL SI	NSIBLE (LxHxW)	(LBS)	V/PH	FLA	MCA	MOP	MANUFACTURER   MOI	DEL NUMBER	NOTES
RTU-H-1	R00F	STAGE	3250	1535	1.0"	12.0/21.7	96,476 BTUH	81,395 BTUH	R32	76.8F/63.5F	53F/53F	60,398 BTUH	70F/59F	95F/75F	75F/62F	78.5F/63.5F	57,020 BTUH	0.78	0.8	0F/0F 75F	/50F 58.8	F/43.9F 108	8,662 BTUH	8.0	0.81 121.6 X 85.9 X 73	4 2299	208V/3PH	64.9	75.4	110	DAIKIN	DPSC07B	1
RTU-H-2	R00F	CAFETERIA	3250	1535	1.0"	12.0/21.7	96,476 BTUH	81,395 BTUH	R32	76.8F/63.5F	53F/53F	60,398 BTUH	70F/59F	95F/75F	75F/62F	78.5F/63.5F	95	0.78	0.8	0F/0F 75F	/50F 58.8	F/43.9F 108	8,662 BTUH	0.8	0.81 121.6 X 85.9 X 73	4 2299	208V/3PH	64.9	75.4	110	DAIKIN	OPSC07B	1
RTU-H-3	R00F	CAFETERIA	1500	572	0.75"	14.1/20.28	37,774 BTUH	35,059 BTUH	R32	76.8F/63.5F	54F/54F	25,734 BTUH	70F/60F	95F/75F	75F/62F	78.5F/63.5F	95	0.75	0.78	0F/0F 75F	/50F 58.8	F/43.9F 38	3,504 BTUH	0.77	0.78 103 X 69.5 X 53.3	1447	208V/3PH	30.8	35.5	50	DAIKIN	DPSC03B	1
RTU-H-4	ROOF	KITCHEN	4500	2250	1.0"	12.4/21.3	124.934 BTUH	108.741 BTUH	R32	77 5F/64F	54F/54F	76 271 BTUH	70F/60F	95F/75F	75F/62F	78 5F/63 5F	95	0.73	0.74	0F/0F 75F	/50F 58.8	F/43 9F 144	4 599 BTUH	0.74	0.75 121.6 X 85.9 X 73	4 2452	208V/3PH	73 7	73.7	125	DAIKIN	OPSC10B	1

										UN	IT VENTILATO	)R									
		SUPPLY F	AN		С	COOLING						HEATING			ELECTRICAL		UNIT S	ZE	BASIS OF D	ESIGN	
TAG	SERVED BY	AIRFLOW (CFM)	OA (CFM)	TOT. CAP. (BTU/H)	SENS. CAP. (BTU/H)	EAT DB (°F)	EAT WB (°F)	<b>I</b>	WB REFRIGER F) TYPE		EAT DB LAT DE (°F)	COIL ROWS	FLOW (GPM)	EWT (°F)	LWT (°F) VOLT/HZ/PHASE MCA ( <i>J</i>	MOCP (A)	LW	H WEI	I	MODEL	NOTES
UV-1	ODU-12	1500	500	50656	34148	80 °F		58 °F 56 °		76026	47 °F 96 °F	2	2.0		104 °F   208 V/60 Hz/1   4	15	98 22	<del> ,</del>	DO DAIKIN APPLIED	UAVS9V15	NOTES
UV-2	ODU-12	1500	500	50656	34148	80 °F		58 °F 56 °		76026	47 °F 96 °F	2	2.0		104 °F   208 V/60 Hz/1 4	15	98 22		DAIKIN APPLIED	UAVS9V15	
UV-2C	0DU-12	750	210	25635	15482	80 °F		61 °F 56 °		46057	51 °F 108 °F	_	2.0		134 °F   208 V/60 Hz/1   4	15	62 22		70 DAIKIN APPLIED	UAVS9V07	ALL
UV-3 UV-4	ODU-12 ODU-12	1500 1500	500 500	50656 50656	34148 34148	80 °F 80 °F		58 °F 56 °		76026 76026	47 °F 96 °F 47 °F 96 °F	2 2	2.0	180 °F	104 °F   208 V/60 Hz/1 4 104 °F   208 V/60 Hz/1 4	15	98 22 98 22		DO DAIKIN APPLIED DO DAIKIN APPLIED	UAVS9V15 UAVS9V15	
UV-5	ODU-13	1500	500	50656	34148	80 °F		58 °F 56 °		76026	47 °F 96 °F	2	2.0		104 °F   208 V/60 Hz/1 4	15	98 22		DAIKIN APPLIED	UAVS9V15	
UV-6	ODU-13	1500	500	50656	34148	80 °F		58 °F 56 °		76026	47 °F 96 °F	2	2.0		104 °F   208 V/60 Hz/1   4	15	98 22		DO DAIKIN APPLIED	UAVS9V15	
UV-7	ODU-14	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F	2	2.0		129 °F   208 V/60 Hz/1 4	15	86 22		75 DAIKIN APPLIED	UAVS9V13	ALL
UV-8	0DU-13	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F	2	2.0		129 °F   208 V/60 Hz/1 4	15	86 22		75 DAIKIN APPLIED	UAVS9V13	A1.1
UV-9A UV-9B	ODU-13 ODU-13	750 750	210 210	25635 25635	15482 15482	80 °F 80 °F		61 °F 56 °		46057 46057	51 °F 108 °F 51 °F 108 °F	2	2.0		134 °F   208 V/60 Hz/1 4 134 °F   208 V/60 Hz/1 4	15	62 22 62 22		70 DAIKIN APPLIED 70 DAIKIN APPLIED	UAVS9V07 UAVS9V07	ALL ALL
UV-10	ODU-13	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F	2	2.0	180 °F	129 °F   208 V/60 Hz/1 4	15	86 22		75 DAIKIN APPLIED	UAVS9V13	ALL
UV-11	ODU-14	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F	2	2.0		129 °F   208 V/60 Hz/1 4	15	86 22		75 DAIKIN APPLIED	UAVS9V13	
UV-12	ODU-14	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F	2	2.0		129 °F   208 V/60 Hz/1 4	15	86 22		75 DAIKIN APPLIED	UAVS9V13	
UV-13	ODU-14	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F	2	2.0		· · · · · ·	15	86 22		75 DAIKIN APPLIED	UAVS9V13	
UV-14 UV-15	ODU-14 ODU-14	1250 1250	420 420	40407 40407	28022 28022	80 °F 80 °F		59 °F 56 °		76598 76598	41 °F 99 °F 41 °F 99 °F	2	2.0		129 °F   208 V/60 Hz/1 4 129 °F   208 V/60 Hz/1 4	15	86 22 86 22		75 DAIKIN APPLIED 75 DAIKIN APPLIED	UAVS9V13 UAVS9V13	ALL
UV-17	0DU-15	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F	2	2.0		129 °F   208 V/60 Hz/1 4	15	86 22		75 DAIKIN APPLIED	UAVS9V13	ALL
UV-109	ODU-20	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F	2	2.0	180 °F	129 °F   208 V/60 Hz/1   4	15	86 22		75 DAIKIN APPLIED	UAVS9V13	ALL
UV-110	ODU-20	1500	500	50656	34148	80 °F	67 °F	58 °F 56 °	F R-410A	76026	47 °F 96 °F	2	2.0	180 °F	104 °F   208 V/60 Hz/1 4	15	98 22		DO DAIKIN APPLIED	UAVS9V15	
UV-120	ODU-15	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F	2	2.0		129 °F   208 V/60 Hz/1 4	15	86 22	-	75 DAIKIN APPLIED	UAVS9V13	ALL
UV-121	0DU-15	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F	2	2.0		129 °F   208 V/60 Hz/1 4	15	86 22		75 DAIKIN APPLIED	UAVS9V13	
UV-122 UV-123	ODU-18 ODU-15	1250 1250	420 420	40407 40407	28022 28022	80 °F 80 °F		59 °F 56 °		76598 76598	41 °F 99 °F 41 °F 99 °F	2 2	2.0		129 °F   208 V/60 Hz/1 4 129 °F   208 V/60 Hz/1 4	15 15	86 22 86 22		75 DAIKIN APPLIED 75 DAIKIN APPLIED	UAVS9V13 UAVS9V13	ALL
UV-124	0DU-21	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F	2	2.0		129 °F   208 V/60 Hz/1 4	15	86 22		75 DAIKIN APPLIED	UAVS9V13	
UV-125A	ODU-15	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F	2	2.0	180 °F	129 °F   208 V/60 Hz/1   4	15	86 22		75 DAIKIN APPLIED	UAVS9V13	
UV-125B	ODU-15	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F	2	2.0		129 °F   208 V/60 Hz/1 4	15	86 22		75 DAIKIN APPLIED	UAVS9V13	
UV-126A	ODU-21	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F	2	2.0		129 °F   208 V/60 Hz/1   4	15	86 22		75 DAIKIN APPLIED	UAVS9V13	
UV-126B UV-127	ODU-21	1250 1250	420	40407 40407	28022 28022	80 °F 80 °F		59 °F 56 °		76598 76598	41 °F 99 °F 41 °F 99 °F	2 2	2.0		129 °F   208 V/60 Hz/1 4	15	86 22 86 22	30 97	75 DAIKIN APPLIED 75 DAIKIN APPLIED	UAVS9V13 UAVS9V13	
UV-127	ODU-18 ODU-18	1250	420 420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F 41 °F 99 °F		2.0		129 °F   208 V/60 Hz/1 4 129 °F   208 V/60 Hz/1 4	15 15	86 22		75 DAIKIN APPLIED 75 DAIKIN APPLIED	UAVS9V13 UAVS9V13	
UV-131A	ODU-18	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F		2.0		129 °F   208 V/60 Hz/1 4	15	86 22			UAVS9V13	
UV-131B	ODU-18	1250	420	40407	28022	80 °F	67 °F	59 °F 56 °	F R-410A	76598	41 °F 99 °F	2	2.0	180 °F	129 °F   208 V/60 Hz/1 4	15	86 22	30 97	75 DAIKIN APPLIED	UAVS9V13	
UV-133	ODU-18	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F		2.0		129 °F   208 V/60 Hz/1 4	15	86 22			UAVS9V13	
UV-135A	0DU-21	750	210	25635	15482	80 °F		61 °F 56 °		46057	51 °F 108 °F		2.0		134 °F   208 V/60 Hz/1 4	15	62 22			UAVS9V07	ALL
UV-135B UV-137	ODU-21 ODU-21	750 1250	210 420	25635 40407	15482 28022	80 °F 80 °F		61 °F 56 °		46057 76598	51 °F 108 °F 41 °F 99 °F		2.0		134 °F   208 V/60 Hz/1	15 15		30 37		UAVS9V07 UAVS9V13	ALL
UV-139	0DU-20	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F		2.0		129 °F   208 V/60 Hz/1 4	15	86 22	-	75 DAIKIN APPLIED	UAVS9V13	
UV-141	ODU-20	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F	2	2.0		129 °F   208 V/60 Hz/1 4	15	86 22			UAVS9V13	
UV-220	ODU-17	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F	2	2.0		129 °F 208 V/60 Hz/1 4	15	86 22			UAVS9V13	ALL
UV-221	0DU-16	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F		2.0		129 °F   208 V/60 Hz/1 4	15	86 22			UAVS9V13	
UV-222 UV-223	ODU-17 ODU-16	1500 1250	500 250	50656 40407	34148 28022	80 °F 80 °F		58 °F 56 °		76026 76598	47 °F 96 °F 41 °F 99 °F		2.0		104 °F   208 V/60 Hz/1 4 129 °F   208 V/60 Hz/1 4	15 15	98 22 86 22	30 60		UAVS9V15 UAVS9V13	
UV-223	ODU-17	750	210	25635	15482	80 °F		61 °F 56 °		46057	51 °F 108 °F		2.0		134 °F   208 V/60 Hz/1 4	15	62 22	-		UAVS9V13 UAVS9V07	ALL
UV-225	ODU-16	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F		2.0		129 °F   208 V/60 Hz/1   4	15	86 22		75 DAIKIN APPLIED	UAVS9V13	
UV-226	ODU-19	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F	2	2.0		129 °F   208 V/60 Hz/1 4	15	86 22	30 97		UAVS9V13	
UV-227	ODU-17	1250	420	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F	2	2.0		129 °F 208 V/60 Hz/1 4	15	86 22	-	75 DAIKIN APPLIED	UAVS9V13	
UV-227A	ODU-16	1500	470	50656	34148	80 °F		58 °F 56 °		76026 76508	47 °F 96 °F		2.0		104 °F   208 V/60 Hz/1 4	15	98 22			UAVS9V15	
UV-228 UV-229	ODU-20 ODU-17	1250 1500	420 500	40407 50656	28022 34148	80 °F 80 °F		59 °F 56 °		76598 76026	41 °F 99 °F 47 °F 96 °F		2.0		129 °F   208 V/60 Hz/1	15 15	98 22	30 97		UAVS9V13 UAVS9V15	
UV-231	ODU-19	1500	500	50656	34148	80 °F		58 °F 56 °		76026	47 °F 96 °F		2.0		104 °F   208 V/60 Hz/1   4	15		30 60		UAVS9V15	
UV-233	ODU-19	1500	500	50656	34148	80 °F		58 °F 56 °		76026	47 °F 96 °F		2.0		104 °F   208 V/60 Hz/1 4	15	98 22	-		UAVS9V15	
UV-235	ODU-19	1500	500	50656	34148	80 °F		58 °F 56 °		76026	47 °F 96 °F		2.0		104 °F   208 V/60 Hz/1 4	15	98 22			UAVS9V15	ALL
UV-237A	ODU-19	750	210	40407	28022	80 °F		59 °F 56 °		76598	41 °F 99 °F	2	2.0		129 °F 208 V/60 Hz/1 4	15		30 97		UAVS9V13	
UV-237B UV-239	ODU-19 ODU-20	750 1250	210 420	25635 40407	15482 28022	80 °F 80 °F		61 °F 56 °		46057 76598	51 °F 108 °F 41 °F 99 °F		2.0		134 °F   208 V/60 Hz/1 4 129 °F   208 V/60 Hz/1 4	15	62 22 86 22	30 37		UAVS9V07 UAVS9V13	ALL
UV-238	UDU-20	1250	420	40407	20022	OU F	UI F	Ja L   20 .	n-410A	7 0098	99°F		2.0	100 7	128 F   200 V/00 MZ/ I	15	00 22	30 9	DAININ APPLIED	UAVOSVIO	

NOTES:	
<ol> <li>PROVIDE PLENUM BACK</li> <li>CUSTOM LOUVERS PROVIDED BY CONTRACTOR</li> <li>ALL HYRDONIC CONNECTION ARE ON THE LEFT OF THE UNIT, CONTRACTOR TO ROUTE PIPING AS REQUIRED</li> <li>PROVIDE A MERV-13 FILTER AND A BACKUP MERV 13 FILTER</li> <li>CONTROLS CONTRACTOR REQUIRED TO WIRE 20K OHMS BUTTON SENSOR PROVIDED BY EQUIPMENT MANUFACTURE LOCATED NEXT TO ROOM TEMPERATURE SENSOR.</li> </ol>	

	NOMINAL HEATING	NOMINAL COOLING							ΓRICAL		BASIS OF		
TAG		COOLING		FACTORY CHARGE									
	CAPACITY (BTU/H)	CAPACITY (BTU/H)	TYPE	(LBS)	DIMENSIONS (L X W X H)	WEIGHT (LBS)	VOLTAGE/PHASE	RLA	MCA	MOP	MANUFACTURER	MODEL NUMBER	NOTES
ODU-1	73,000	69,000	R-410A	13.0	66-11/16" X 36-11/16" X 30-3/16"	496	208V/3PH	11.1	27.3	30	DAIKIN	RXYQ72AATJA	
ODU-2.01	13,400	10,600	R-32	2.09	21-5/8" X 26-9/16" X 11-3/16"	70	208V/1PH	12.0	13.0	15	DAIKIN	RXL12QMVJU9	
ODU-2.02	13,400	10,600	R-32	2.09	21-5/8" X 26-9/16" X 11-3/16"	70	208V/1PH	12.0	13.0	15	DAIKIN	RXL12QMVJU9	
ODU-2.03	13,400	10,600	R-32	2.09	21-5/8" X 26-9/16" X 11-3/16"	70	208V/1PH	12.0	13.0	15	DAIKIN	RXL12QMVJU9	
ODU-3	52,000	48,000	R-32	7.5	34-1/4" x 43-5/16" x 18-1/8"	176	208V/1PH	-	29.4	30	DAIKIN	RXTA48AAVJU	
DU-5-ALT	20,600	17,7000	R-410A	6.4	$39 \times 37 \times 12 - 5/8$	172	208V/1PH	15.3	16.5	20	DAIKIN	RZQ18TBVJUA	1
DU-6-ALT	20,600	17,7000	R-410A	6.4	$39 \times 37 \times 12 - 5/8$	172	208V/1PH	15.3	16.5	20	DAIKIN	RZQ18TBVJUA	1
DU-8-ALT	20,600	17,7000	R-410A	6.4	$39 \times 37 \times 12 - 5/8$	172	208V/1PH	15.3	16.5	20	DAIKIN	RZQ18TBVJUA	1
ODU-10	108,000	96,000	R-410A	22.7	66-11/16" X 36-11/16" X 30-3/16"	525	208V/3PH	23.8	36.3	45	DAIKIN	RXYQ96AATJA	
ODU-11	N/A	13,300	R-410A	2.09	21-11/16" X 26-1/2" X 11-3/16"	60	208V/1PH	2.9	4	15	DAIKIN	RK12BXVJU	
ODU-12	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	25.8	47.8	50	DAIKIN	RXYQ264AATJA	
ODU-13	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	25.8	47.8	50	DAIKIN	RXYQ264AATJA	
ODU-14	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	25.8	47.8	50	DAIKIN	RXYQ264AATJA	
ODU-15	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	25.8	47.8	50	DAIKIN	RXYQ264AATJA	
ODU-16	216,000	192,000	R-410A	25.8	68 7/8" X 30 1/8" X 65 3/8"	904	208V/3PH	16.6 + 16.6 A	59.8	60	DAIKIN	RXYQ192AATJA	
ODU-17	189,000	168,000	R-410A	25.8	48 13/16" X 30 1/8" X 35 3/8"	750	208V/3PH	12.5 + 20.0 A	54.9	60	DAIKIN	RXYQ168AATJA	
ODU-18	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	25.8	47.8	50	DAIKIN	RXYQ264AATJA	
ODU-19	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	25.8	47.8	50	DAIKIN	RXYQ264AATJA	
ODU-20	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	25.8	47.8	50	DAIKIN	RXYQ264AATJA	
	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	25.8	47.8	50	DAIKIN	RXYQ264AATJA	

	U	IFFUSER SCI	HEDULE				
					BASIS OF	DESIGN	
No.	DESCRIPTION	NECK SIZE	MOUNTING	FINISH	MANUFACTURER	MODEL	NOTES
Α	SUPPLY DIFFUSER, STEEL	18" Ø	SURFACE	BY ARCH	PRICE	RID	
В	SUPPLY	12"	SURFACE	BY ARCH	PRICE	SPD	

<b>—</b>	
🖶	LaBella Powered by partnership.
	7 1

4 British American Boulevard Latham, NY 12110 (518) 273-0055 labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2023 LaBella Associates

### **NEWBURGH ENLARGED** CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



**MEADOW HILL GEM SCHOOL** 124 MEADOW HILL ROAD

NEWBURGH, NY 12550

2 | 12/11/2024 | BID ADDENDUM 2 NO: DATE: DESCRIPTION: S.E.D. NUMBER: 44-16-00-01-0-035-014 PROJECT NUMBER: 2233600 DRAWN BY: REVIEWED BY: ISSUED FOR: ADDENDUM 2

**MECHANICAL SCHEDULES** 

	HALLWA	Y SPLIT SY	STEM - POINTS	LIST			
		READ	READ/WRITE	SOFTV	VARE POIN	ΓS	
POINT #	POINT DESCRIPTION	POINTS	POINTS	SCHEDULE	ALARM	TREND	NOTES
1	SYSTEM ENABLE/DISABLE		Х				
2	OCCUPIED HEATING SETPOINT		Х				
3	UNOCCUPIED HEATING SETPOINT		Х				
4	OCCUPIED COOLING SETPOINT		Х				
5	UNOCCUPIED COOLING SETPOINT		Х				
6	GENERAL ALARM		Х		Χ		
7	SPACE TEMPERATURE	Χ			Χ	Х	

			OFFICE SPLI	T SYSTEM	- POINTS	S LIST	
		READ	READ/WRITE	SOFT	WARE POIN	ITS	
POINT #	POINT DESCRIPTION	POINTS	POINTS	SCHEDULE	ALARM	TREND	NOTES
1	SYSTEM ENABLE/DISABLE		Х				
2	OCCUPIED MODE		X	X			
3	UNOCCUPIED MODE		Х	Х			
4	GENERAL ALARM		Х		Χ		
5	SPACE TEMPERATURES	Х			Χ	Х	PROVIDE USER ADJUSTABLE THERMOSTATS IN EACH SPACE
NOTES:	RACTOR TO PROGRAM DEFAULT HI	EATING AND CO	OLING CETDOINTS				

			READ/WRITE	SOFT	NARE POIN	TS	
POINT #	POINT DESCRIPTION	READ POINTS	POINTS	SCHEDULE	ALARM	TREND	NOTES
1	SYSTEM ENABLE/DISABLE		Х				
2	COMPRESSOR STATUS	Х			Х		
3	MODEL SELECT (HEATING/COOLING)		Х			Х	
4	GENERAL ALARM				Х		
5	COMPRESSOR START/STOP (2)		Х			Х	

VRF UNIT VENTILATOR - POINTS LIST

POINTS SOFTWARE POINTS

AI = ANALOG INPUT, AO = ANALOG OUTPUT, DI = DIGITAL INPUT, DO = DIGITAL OUTPUT, AV = ...

ABBREVIATION KEY:

DV = DIGITAL VALUE

# POINT DESCRIPTION

FAN MOTOR START/STOP

**FAN MOTOR STATUS** 

FAN MOTOR ALARM

5 SUPPLY TEMPERATURE

7 FIN TUBE CONTROL VALVE

HEATING COIL CONTROL VALVE

12 VRV ODU TEMP. SENSOR (EACH CLASSROOM) X X X

6 SPACE TEMPERATURE

10 FACE/BYPASS DAMPER

1 MODE TO VRV SYSTEM

4 OA/RA DAMPER

**EF DAMPER** 

8 FAN SPEED

2. CONTRACTOR TO PROGRAM SETPOINT ADJUSTMENT RANGE  $\pm$ /- 2 DEG. F

B. SCHEDULES SHALL BE PROGRAMMED IN BMS OR SPLIT SYSTEM CONTROLLER

SCHEDULES SHALL BE PROGRAMMED IN BMS OR SPLIT SYSTEM CONTROLLER



OCCUPIED MODE: THE UNIT SHALL MAINTAIN A 70°F (ADJ.) HEATING

UNOCCUPIED MODE: (NIGHT SETBACK): THE UNIT SHALL MAINTAIN A

THE OCCUPANT SHALL BE ABLE TO ADJUST THE SPACE TEMPERATURE

THE CONTROLLER SHALL MEASURE THE SPACE TEMPERATURE.

SETPOINT. THE HOT WATER COIL VALVE SHALL BE OPEN.

COIL 100% OPEN AND MODULATE F/B DAMPER TO MAINTAIN

-THE SPACE TEMPERATURE IS BELOW HEATING SETPOINT.

ECONOMIZER MODE WHEN OUTSIDE AIR IS ABOVE 60°F (ADJ.):

WHENEVER THE F/B DAMPER IS IN FULL BYPASS POSITION AND THE

COIL SHALL CLOSE. UPON FURTHER RISE IN TEMPERATURE, THE

OUTSIDE AIR DAMPER SHALL OPEN TO 100% TO ALLOW FOR

THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR

SPACE TEMPERATURE RISES ABOVE SPACE SETPOINT, THE HOT WATER

THE OUTSIDE AIR DAMPER SHALL OPEN TO ITS MINIMUM OUTSIDE AIR

**EXISTING BUILDING CONTROLS:** WHEN OA DAMPERS OPEN, EXG.

RELIEF AIR DAMPERS SHALL OPEN AND RELIEF AIR EXHAUST FANS

DURING OCCUPIED MODE THE SUPPLY FAN WILL RUN AT A CONSTANT,

WHENEVER THE SPACE TEMPERATURE FALLS BELOW THE HEATING

SETPOINT, MODULATE THE FACE AND BYPASS DAMPER TO MAINTAIN

-OUTSIDE AIR TEMPERATURE IS LESS THAN 50°F (ADJ.) AND OAT < 40f -

TEMPERATURE OR OAT>40F - F/B FULL FACE AND MODULATE COIL TO

60°F (ADJ.) HEATING SETPOINT, 80°F COOLING SETPOINT.

- HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS

- HIGH SPACE TEMPERATURE: IF THE SPACE TEMPERATURE IS GREATER THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT.

- LOW SPACE TEMPERATURE: IF THE SPACE TEMPERATURE IS LESS THAN

-BE DISABLED WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 60 DEG F

EXISTING RELIEF SYSTEM SHALL OPERATE DURING OCCUPIED MODES AND BE

THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT.

- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.

FIN RADIATION HEATING VALVE (IF EXISTING IN PLACE):

WHERE EXISTING, THE FIN RADIATION SHALL:

-PROVIDE THE SECOND STAGE OF HEATING.

-PROVIDE UNOCCUPIED MODE HEATING.

OFF DURING UNOCCUPIED MODE.

- LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS

GREATER THAN 120°F (ADJ.).

THAN 40°F (ADJ.).

SETPOINT, 74°F COOLING SETPOINT.

HEATING SETPOINT AT THE SPACE SENSOR.

F/B DAMPER AND HEATING COIL VALVE:

HEATING SHALL BE ENABLED WHENEVER:

MAINTAIN TEMPERATURE

DISCHARGE AIR TEMPERATURE:

-THE UNIT IS IN OCCUPIED MODE AND

MANUALLY DESIGNATED SPEED (LOW/MED/HIGH).

THE CONTROLLER SHALL MONITOR THE FAN STATUS.

<u>OUTSIDE AIR DAMPER</u>:

POSITION WHENEVER:

-THE FAN IS ON.

CLASSROOM

VRV ODU

EXHAUST

8 VSD (M)-

RETURN

AIR

1 S/S STARTER M

2 STATUS CT

3 ALARM

10

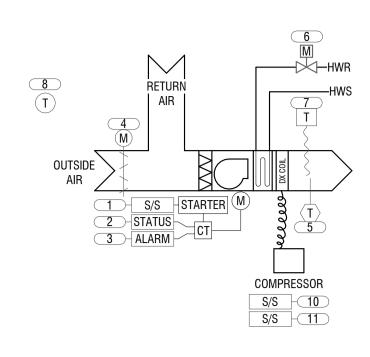
**12** 

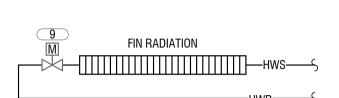
FIN RADIATION

NOTE: FIN RADIATION CONTROL IS NOT PRESENT IN

OUTSIDE \

	SELF C	ON	TAII	NEC	) D)	(UI	NIT	VE	NTI	LAT	TOR - POINTS LIST
AI = A	DIGITAL VALUÉ	OG	0U <sup>-</sup>	TPL	JT,	DI =	= D	)IGI	TAL	. IN	PUT, DO = DIGITAL OUTPUT, AV = ANALO
		H	IAR\ POI	WAR NTS	_	SOI	TW	ARE	POI	NTS	
POINT #	POINT DESCRIPTION	AI	AO	DI	DO	AV	DV	SCHED	ALARM	TREND	NOTES
1	FAN MOTOR START/STOP				Х			Х			
2	FAN MOTOR STATUS			Χ						Χ	
3	FAN MOTOR ALARM			Χ					Χ		
4	OA/RA DAMPER		Χ			Χ		Х			
5	SUPPLY TEMPERATURE	X							Χ		
6	HEATING COIL CONTROL VALVE		X							Χ	
7	LOW LIMIT FREEZESTAT			Χ					Χ		
8	SPACE TEMPERATURE	X							Χ	Χ	
9	FIN TUBE CONTROL VALVE		Χ							Χ	
10	COMPRESSOR START/STOP				Х						
11	COMPRESSOR STATUS	X							Χ		





NOTE: FIN RADIATION CONTROL IS NOT PRESENT IN

ALL SPACES.

**RUN CONDITIONS** - SCHEDULED: THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:

OCCUPIED MODE: THE UNIT SHALL MAINTAIN A 70°F (ADJ.) HEATING SETPOINT, 74°F COOLING SETPOINT. UNOCCUPIED MODE: (NIGHT SETBACK): THE UNIT SHALL MAINTAIN A

60°F (ADJ.) HEATING SETPOINT, 80°F COOLING SETPOINT. <u>SETPOINT ADJUST</u>:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE SPACE TEMPERATURE

HEATING SETPOINT AT THE SPACE SENSOR. F/B DAMPER AND HEATING COIL VALVE: WHENEVER THE SPACE TEMPERATURE FALLS BELOW THE HEATING

SETPOINT, MODULATE THE FACE AND BYPASS DAMPER TO MAINTAIN

SETPOINT. THE HOT WATER COIL VALVE SHALL BE OPEN WHENEVER THE OAT <65°F. HEATING SHALL BE ENABLED. ECONOMIZER MODE WHEN OUTSIDE AIR IS ABOVE 55°F (ADJ.):

WHENEVER THE SPACE TEMPERATURE RISES ABOVE SPACE SETPOINT, THE HOT WATER COIL SHALL CLOSE. UPON FURTHER RISE IN TEMPERATURE, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN TO MAINTAIN THE SPACE TEMPERATURE.

IF THE SPACE TEMPERATURE RISES 2 DEGREES ABOVE THE SETPOINT, THE ECONOMIZER DAMPER SHALL RETURN TO MINIMUM POSITION AND THE COMPRESSOR SHALL CYCLE TO MAINTAIN THE SPACE TEMPERATURE.

**DISCHARGE AIR TEMPERATURE**: THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

<u>OUTSIDE AIR DAMPER</u>: THE OUTSIDE AIR DAMPER SHALL OPEN TO ITS MINIMUM OUTSIDE AIR POSITION WHENEVER: -THE UNIT IS IN OCCUPIED MODE AND -THE FAN IS ON. -THE UNIT IS IN COOLING MODE

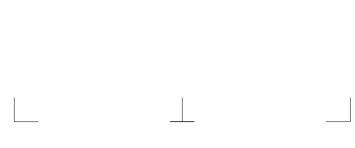
**EXISTING BUILDING CONTROLS**: WHEN OA DAMPERS OPEN, EXG. RELIEF AIR DAMPERS SHALL OPEN AND RELIEF AIR EXHAUST FANS SHALL RUN.

DURING OCCUPIED MODE THE SUPPLY FAN WILL RUN AT A CONSTANT, MANUALLY DESIGNATED SPEED (LOW/MED/HIGH). THE CONTROLLER SHALL MONITOR THE FAN STATUS.

- HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.). - LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.). - HIGH SPACE TEMPERATURE: IF THE SPACE TEMPERATURE IS GREATER THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT. - LOW SPACE TEMPERATURE: IF THE SPACE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT. - FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.

FIN RADIATION HEATING VALVE (IF EXISTING IN PLACE): WHERE EXISTING. THE FIN RADIATION SHALL: -PROVIDE THE FIRST STAGE OF HEATING. -PROVIDE UNOCCUPIED MODE HEATING. -BE DISABLED WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 55 DEG F

(ADJ.)



CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

4 British American Boulevard

Latham, NY 12110

(518) 273-0055

labellapc.com

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

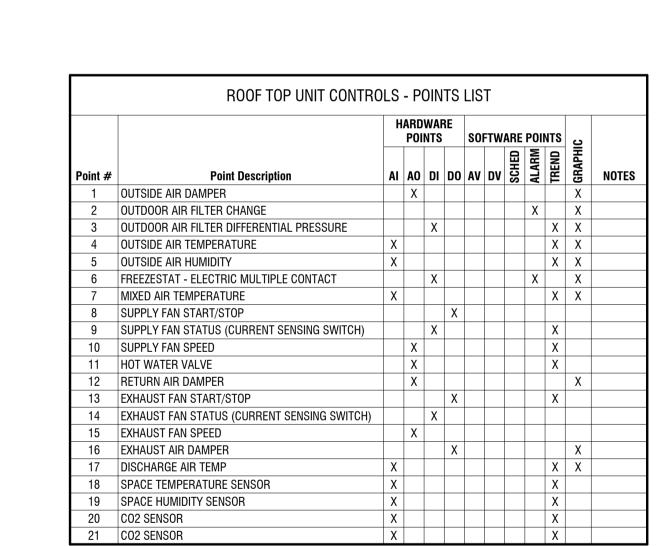
© 2023 LaBella Associates

#### **NEWBURGH ENLARGED** CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



### SELF CONTAINED DX UNIT VENTILATOR CONTROLS SCHEMATIC



ALARMS SHALL BE PROVIDED AS FOLLOWS:

AN ALARM SHALL BE GENERATED BY EACH OF THE ALARMS SHOWN ON THE POINTS LIST. IF ANY DIGTAL STATUS POINT DISAGREES WITH THE COMMAND FOR MORE THAN 5 MINUTES AN ALARM

• IF ANY TEMPERATURE SETPOINT IS MORE THAN 4 DEGREES FROM THE SETPOINT FOR MORE THEN 10 MINUTES, AN ALARM SHALL BE GENERATED

 FILTER CHANGE NOTIFICATION: FILTER DIFFERENTIAL PRESSURE EXCEEDS SETPOINT (ADJ.). FAN SHUTDOWN UPON DUCT SMOKE DETECTOR ACTIVATION

DESCRIBED BELOW.

THE SUPPLY FAN SHALL BE RUN CONTINUOUSLY UNLESS SHUTDOWN BY SAFETIES. THE SUPPLY AIR FANS SPEED SHALL BE OPTIMIZED IN THE FIELD DURING SYSTEM BALANCING TO DELIVER THE SCHEDULED SUPPLY AIRFLOW.

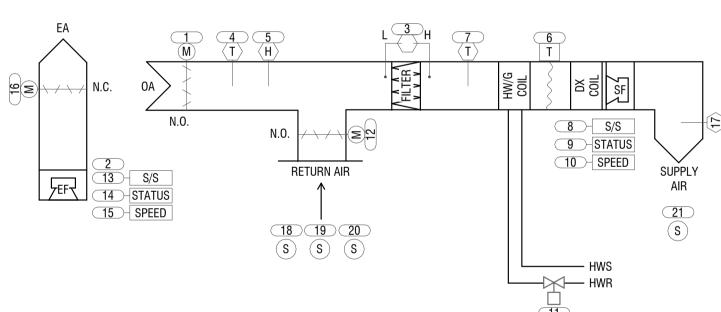
THE EXHAUST FAN SHALL RUN CONTINUOUSLY. THE SPEED SHALL BE MODULATED ACCORDING TO THE OUTSIDE AIR DAMPER POSITION. THE MODULATION SCHEDULE SHALL BE SET BY THE AIR BALANCER.

THE OA AND RA DAMPERS SHALL BE POSITIONED TO DELIVER THE APPROPRIATE AMOUNT OF OUTSIDE AIR AS

UNOCCUPIED MODE GIDNEY SEQUENCE

 THE SUPPLY FAN AND EXHAUST FAN SHALL BE OFF. EXISTING FINNED TUBE RADIATION SHALL MAINTAIN THE UNOCCUPIED SPACE TEMPERATURE. HILLS SEQUENCE-

THE SUPPLY FAN AND EXHAUST FAN SHALL BE OFF. IF THE SETPONT TEMPERATURE DROPS TWO DEGREES BELOW THE UNOCCUPIED SETPOINT, THE SUPPLY FAN SHALL START AND THE HEATING COIL SHALL OPEN TO 50% POSITION UNTIL THE SPACE TEMPERATURE IS 2 DEGREES ABOVE THE SETPOINT. THE FANS SHALL STOP AND THE HEATING VALVE SHALL CLOSE.



<u>SETPOINTS</u>

OCCUPIED HEATING - 70°F OCCUPIED COOLING - 73°F

UNOCCUPIED HEATING — 63°F UNOCCUPIED COOLING - 85°F

<u>Freeze Protectio</u> N THE FREEZE STAT SETPOINT SHALL BE 40 DEGF. IF THE FREEZE STAT TRIPS, THE FANS SHALL STOP, THE DAMPERS SHALL MODULATE TO FULL RETURN POSITION AND THE HEATING COIL VALVE SHALL OPEN 50%. AN ALARM SHALL BE SENT.

THE HEATING CONTROL VALVE SHALL MODULATE TO MAINTAIN THE HEATING SETPOINT TEMPERATURE

IF THE OUTDOOR ENTHALY IS LESS THAN THE INDOOR INTHALPY AND THE SPACE TEMPERATURE IS ABOVE THE COOLING SETPOINT, ECONOMIZER COOLING SHALL BE ENABLED. THE MIXED AIR DAMPERS SHALL USE OUTSIDE AIR TO MAINTAIN THE

COOLING SETPOINT. THE EXHAUST FAN SHALL MODULATE IN SYNC WITH THE OUTSIDE AIR DAMPER POSITION TO MAINTAIN

SPACE PRESSURE BALANCE.

THE MIXED DAMPERS SHALL BE AT THE MINIMUM OCCUPIED POSITION OR THE POSITION DICTATED BY THE DCV CONTROL, WHICHEVER IS GREATER. THE ACCU SHALL START AND MODULATE TO MAINTAIN THE SPACE TEMPERATURE. THE

MINIMUM SUPPLY AIR TEMPERATURE SHALL BE 50°F. <u>DCV CONTROL</u>

OCCUPIED MODE THE MIXED AIR DAMPERS SHALL MODULATE TO MAINTAIN A CO2 SETPOINT OF 800 PPM (ADJ). THE MIXED AIR DAMPERS SHALL BEGIN TO MODULATE OPEN WHEN THE INDOOR CO2 LEVEL IS 100 PPM OVER THE OUTDOOR CO2 LEVEL.

THE MINIMUM POSITION OF THE OA DAMPER SHALL BE SET BY THE AIR BALANCER TO MAINTAIN THE MINIMUM AIR FLOW

SHOWN ON THE SCHEDULE.

PRE-OCCUPANCY — THERE SHALL BE A 30 MINUTE PRE-OCCUPANCY PURGE WITH THE OUTSIDE DAMPERS SET TO THE MAXIMUM AIR FLOW POSITION SHOWN ON THE SCHEDULE AS SET BY THE AIR BALANCER. POST-OCCUPANCY FLUSH - THE POST-OCCUPANCY FLUSH SHALL OPERATE UNTIL CO2 LEVELS ARE REDUCED TO 450 PPM.

DURING POST-OCCUPANCY FLUSH THE DAMPERS SHALL BE IN THE MINIMUM VENTILATION POSITION AS SHOWN ON THE AHU SCHEDULE. SENSOR FAILURE

IF A CO2 SENSOR FAILS, THE MIXED AIR DAMPERS SHALL OPEN TO THE MAXIMUM POSITION.

COMMISSIONING AND RECORD KEEPING REQUIREMENTS

THE CO2 SENSOR CALIBRATION SHALL BE CHECKED ONE YEAR AFTER INITIAL COMMISSIONING IS COMPLETED. CO2 CONCENTRATION READINGS SHALL BE LOGGED BY THE BMS ON A 15-MINUTE INTERVAL. RECORDS MUST BE KEPT FOR

3 VRF UNIT VENTILATOR CONTROLS SCHEMATIC

MEADOW HILL GEM SCHOOL

124 MEADOW HILL ROAD

NEWBURGH, NY 12550

2233600

ADDENDUM 2

**MECHANICAL CONTROLS** 

NO: DATE:

PROJECT NUMBER:

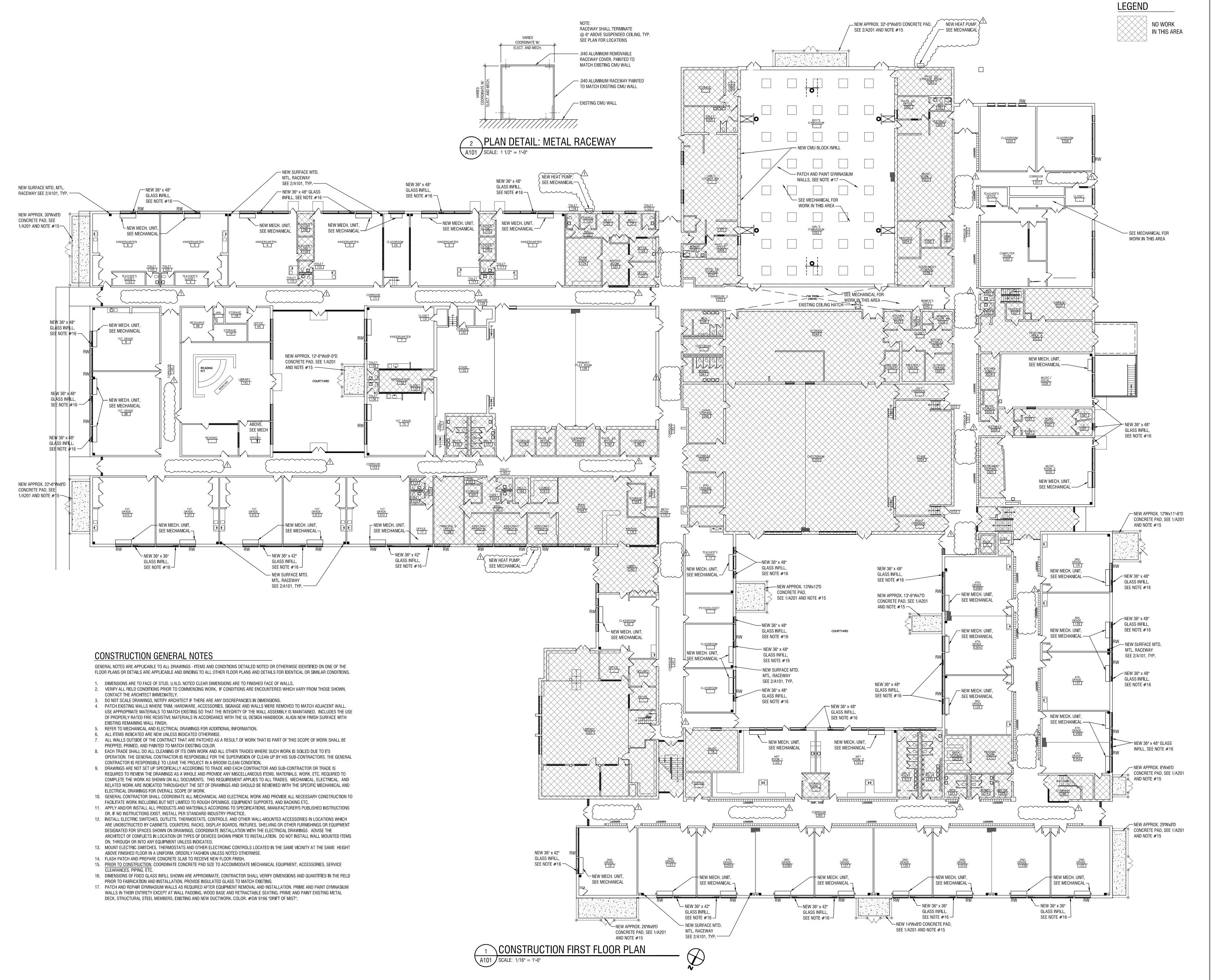
DRAWN BY:

REVIEWED BY:

DRAWING NAME:

DRAWING NUMBER:

S.E.D. NUMBER: 44-16-00-01-0-035-014



LaBella
Powered by partnership.

4 British American Boulevard Latham, NY 12110 518-439-8235

labellapc.com

T TOR CONSTRUCTION

L EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976

GEOLOGICAL: 018750

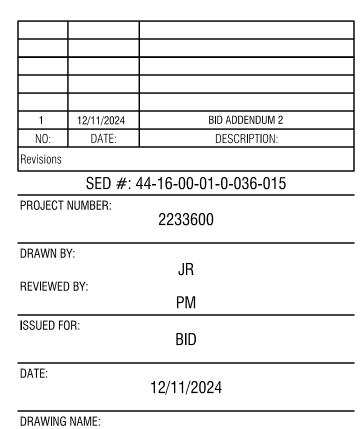
It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates

# NEWBURGH ENLARGED CITY SCHOOL DISTRICT 124 GRAND ST. - NEWBURGH, NY 12550



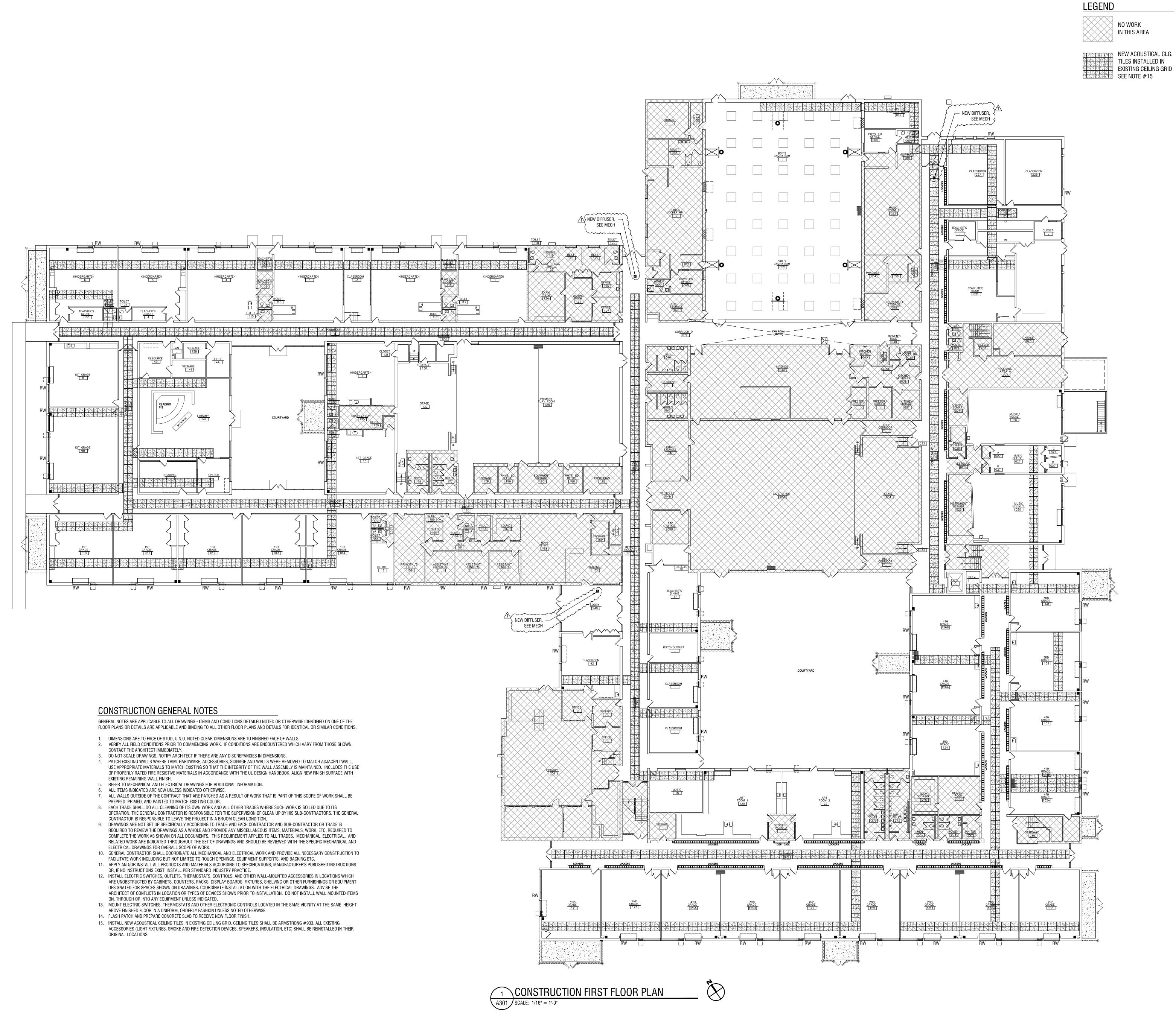
**TEMPLE HILL ACADEMY**525 UNION AVE. - NEW WINDSOR, NY 12553



CONSTRUCTION FIRST FLOOR PLAN

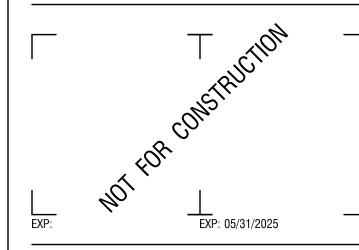
DRAWING NUMBER:

A101





4 British American Boulevard Latham, NY 12110 518-439-8235 labellapc.com



CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976

GEOLOGICAL: 018750

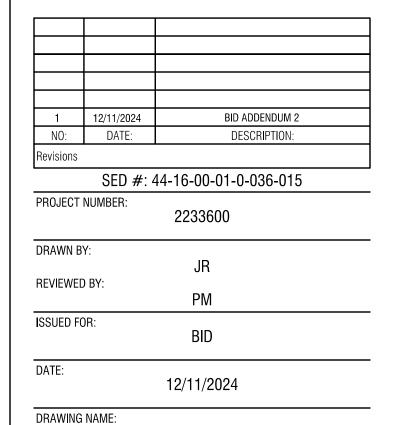
It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates

NEWBURGH ENLARGED CITY SCHOOL DISTRICT 124 GRAND ST. - NEWBURGH, NY 12550



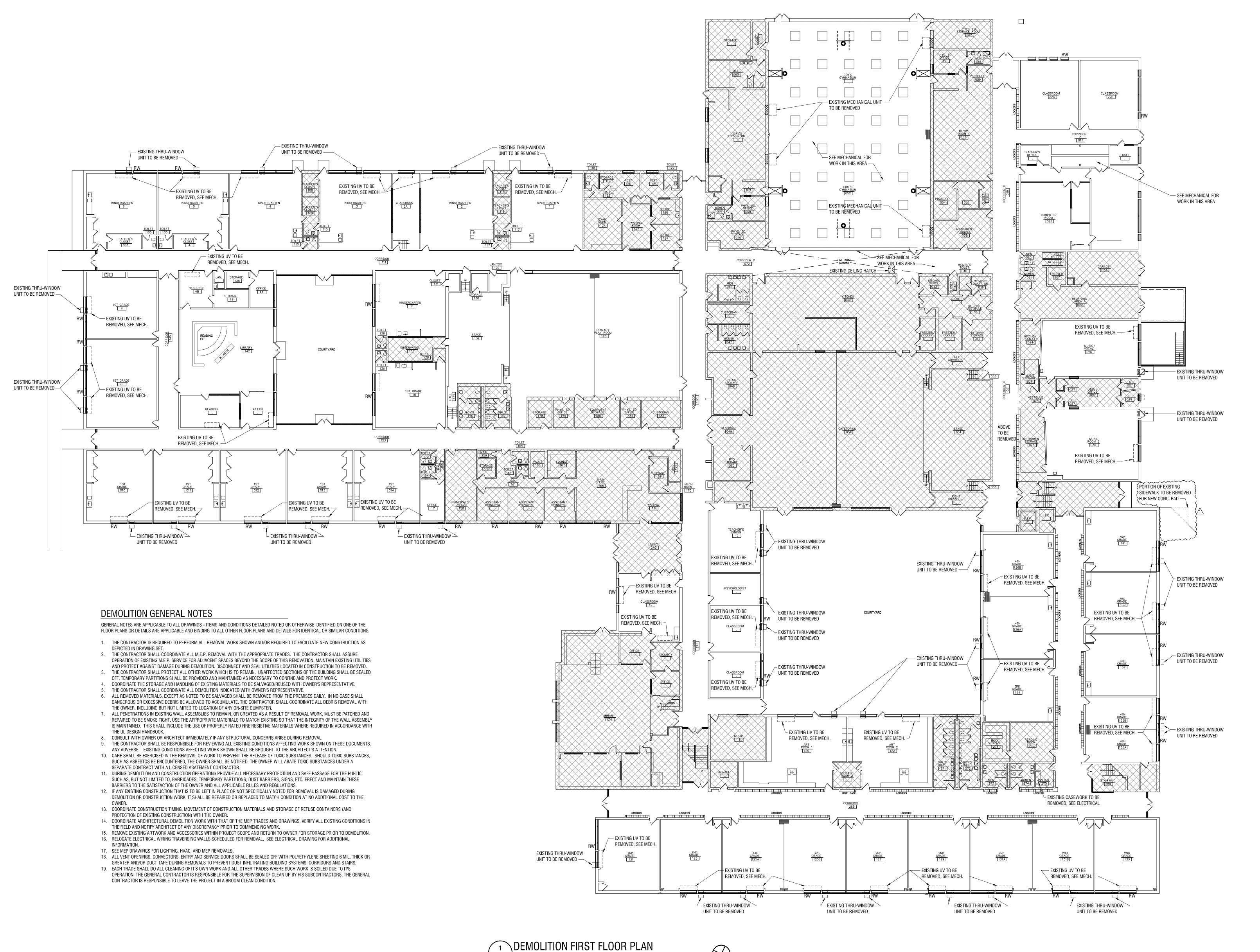
**TEMPLE HILL ACADEMY**525 UNION AVE. - NEW WINDSOR, NY 12553



CONSTRUCTION
FIRST FLOOR
REFLECTED CEILING PLAN

DRAWING NUMBER:

A301



LaBella
Powered by partnership.

4 British American Boulevard Latham, NY 12110 518-439-8235

labellapc.com

T TOR CONSTRUCTION

EXP: EXP: 05/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976

GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

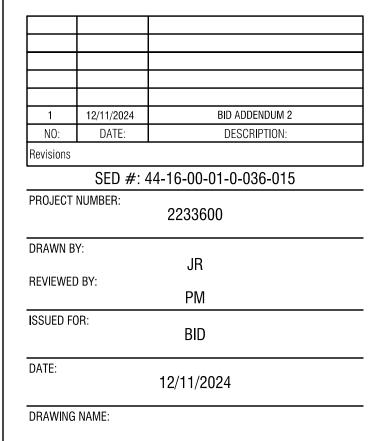
© 2024 LaBella Associates

# NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



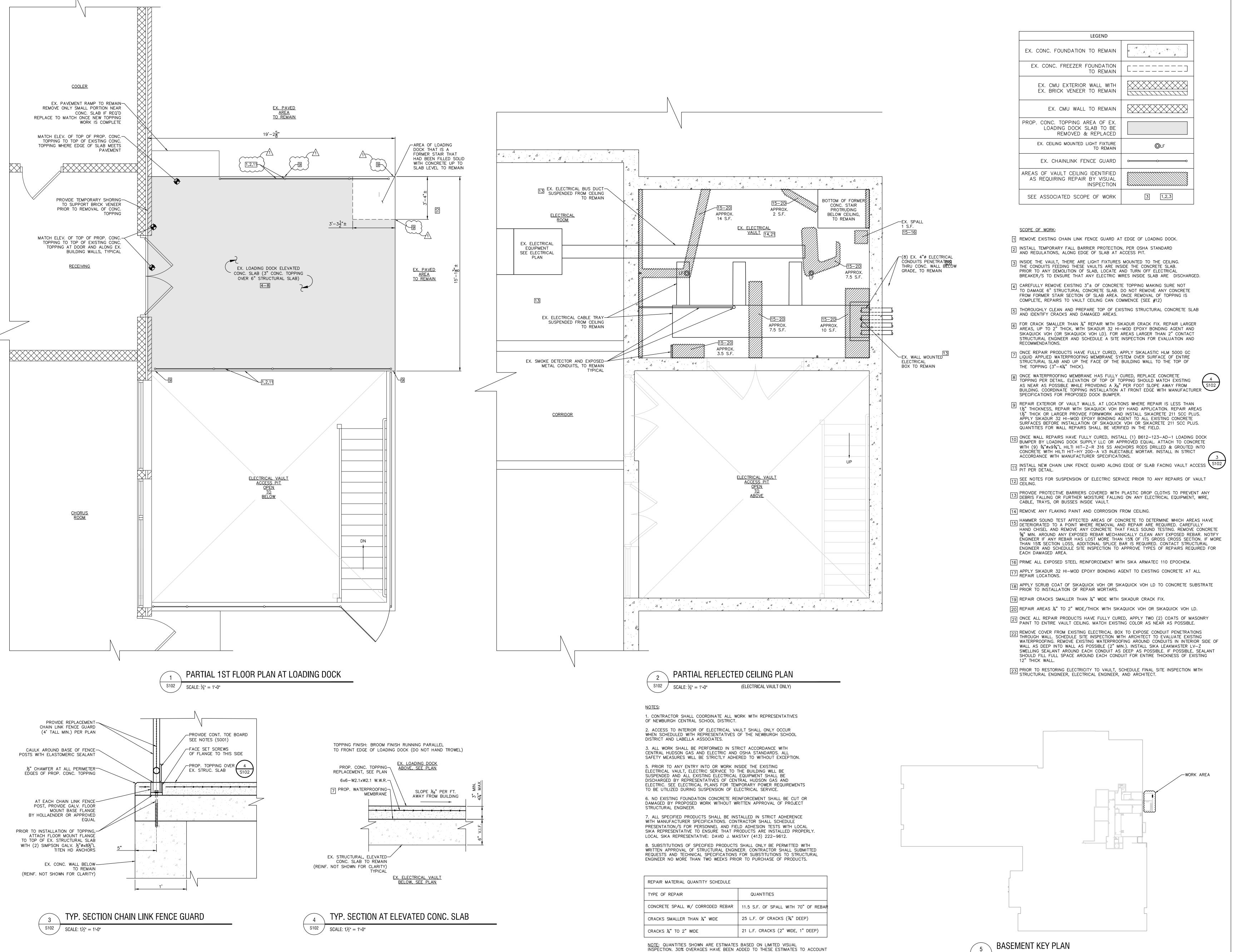
**TEMPLE HILL ACADEMY**525 UNION AVE. - NEW WINDSOR, NY 12553



DEMOLITION FIRST FLOOR PLAN

DRAWING NUMBER:

AD101



FOR CONDITIONS IN THE FIELD THAT MAY BE INCONSISTENT WITH ESTIMATES.



4 British American Boulevard Latham, NY 12110 (518) 273-0055

labellapc.com

EXP: 10/31/2025

CERTIFICATE OF AUTHORIZATION NUMBER:

PROFESSIONAL ENGINEERING: 018281

LAND SURVEYING: 017976

GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates

# NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND STREET NEWBURGH, NY 12550



TEMPLE HILL ACADEMY

525 UNION AVE. - NEW WINDSOR, NY 12553

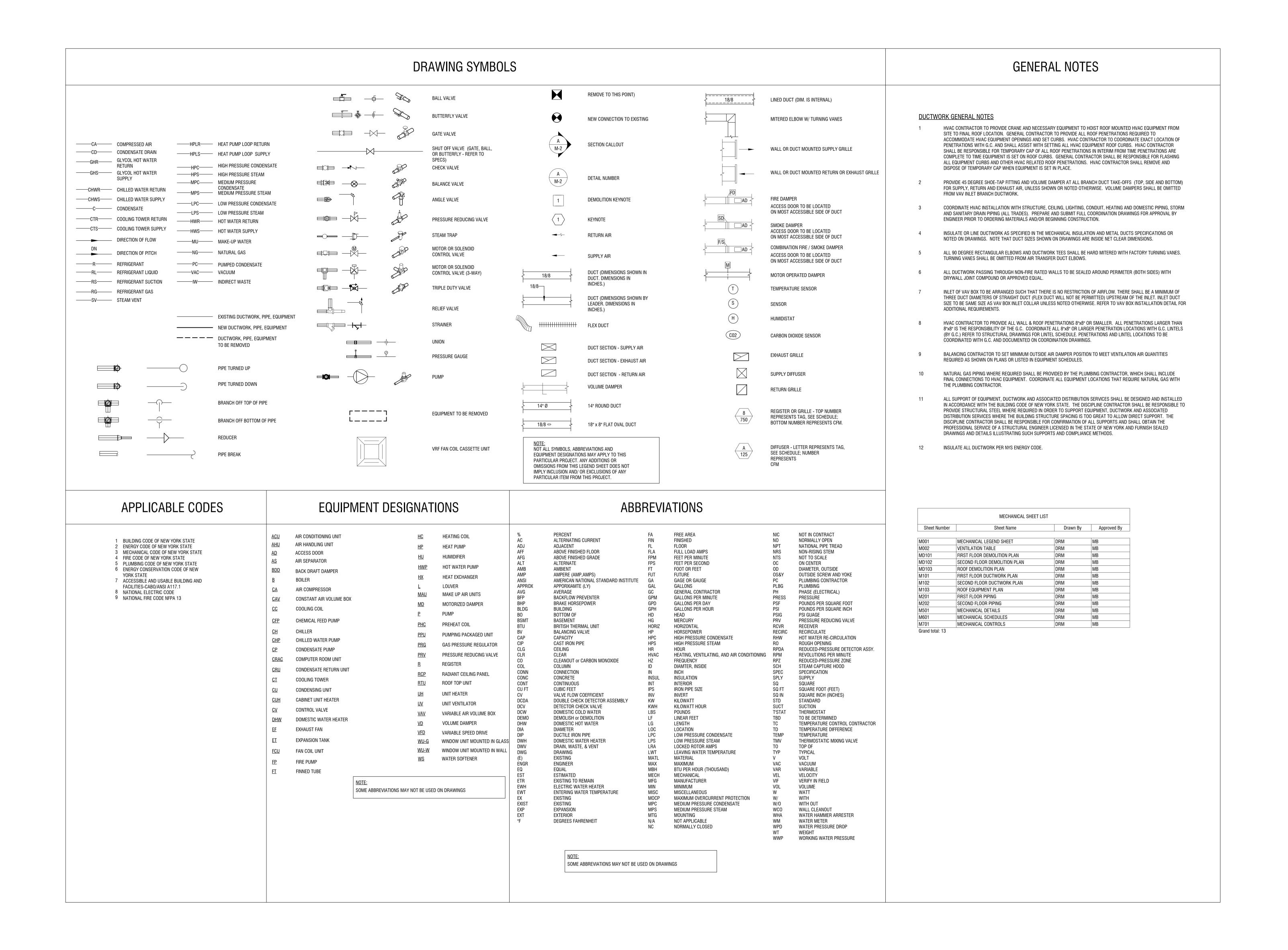
1	12/11/2024	BID ADDENDUM 2
NO:	DATE:	DESCRIPTION:
Revisions		
SED #: 4	4-16-00-01-0-0	36-015
PROJECT	NUMBER:	2233600
		2233600 KSA
PROJECT  DRAWN B  REVIEWEI	Y:	
DRAWN B	D BY:	KSA

DOCK CEILING & SLAB
REPAIR PLAN

DRAWING NUMBER:

S102 / SCALE: NOT TO SCALE

**S102** 



LaBella
Powered by partnership

4 British American Boulevard Latham, NY 12110 (518) 273-0055 labellapc.com

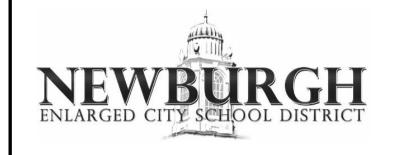
CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates

### NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



TEMPLE HILL ACADEMY

525 UNION AVENUE NEW WINDSOR, NY 12553

NO: DATE: DESCRIPTION:
Revisions

S.E.D. NUMBER: 44-16-00-01-0-036-015

PROJECT NUMBER:

2233600

DRAWN BY: DRM
REVIEWED BY: MB

ISSUED FOR:

ADDENDUM 2

MECHANICAL LEGEND

DRAWING NUMBE

Room Name	Unit	Square Footage	Туре	Occupancy Density/1000sf	Max Occupancy	OA/person	CFM/SF	Code OA (cfm)	Provided OA (cfm)
1 - Kindergarten	UV-1	B	Classroom	25	25	10	0.12	368.32	500
2 - Kindergarten	UV-2	•	Classroom	25	10	10	0.12	144.4	500
2A - Classroom	UV-2A	<b>3</b>	Classroom	25	25	10	0.12	368.8	210
3 - Kindergarten	UV-3	•	Classroom	25	25	10	0.12	368.32	500
4 - Kindergarten	UV-4	3	Classroom	25	25	10	0.12	368.32	500
5 - Kindergarten	UV-5		Classroom	25	22	10	0.12	325.6	500
6 - Kindergarten	UV-6	-	Classroom	25	22	10	0.12	325.6	500
7 - Kindergarten	UV-7		Classroom	25	21	10	0.12	308.4	470
8 - 1st Grade	UV-8		Classroom	25	22	10	0.12	322	470
9B - 1st Grade	UV-9A & UV-9B		Classroom	25	29	10	0.12	425	470
10 - 1st Grade	UV-10		Classroom	25	21	10	0.12	310.8	470
11 - 1st Grade	UV-10	79	Classroom	25	21	10	0.12	310.8	470
12 - 1st Grade	ex 10th Date - NA Private		Classroom	25	100 Feb.	to Labor 1			470
Service Services and Services and Services and Services (Services)	UV-12				21	10	0.12	310.8	
13 - 1st Grade	UV-13		Classroom	25	21	10	0.12	310.8	470
14 - 1st Grade	UV-14	7	Classroom	25	21	10	0.12	310.8	470
15 - 1st Grade	UV-15		Classroom	25	21	10	0.12	309.6	420
17 - Teacher's Dining	UV-17	1	Conference Room	50	32	5	0.06	197.26	470
26 - Music/Vocal	UV-109	The state of the s	Classroom	25	25	10	0.12	368.32	420
30 - Music Room 2	UV-110		Classroom	25	30	10	0.12	440.4	500
42 - Classroom	UV-42	72.7	Classroom	25	17	10	0.12	250.4	470
51 - Cafetorium	RTU-H-2 & RTU-H-3 & RTU-H-4		Café	70	300	7.5	0.18	3133.8	6500
51-Stage	RTU-H-1	•	Stage	70	50	10	0.06	566	1500
52 - Gym	T-5 & T-6		Multi-Use Assembly	100	600	7.5	0.06	4897.5	10260
120 - Art Room 1	UV-120		Art Room	20	22	10	0.18	416.2	420
121 - 2nd Grade	UV-121		Classroom	25	20	10	0.12	293.6	420
122 - Art Room 2	UV-122	-	Art Room	20	21	10	0.18	391.8	420
123 - 2nd Grade	UV-123		Classroom	25	20	10	0.12	293.6	470
124 - 3rd Grade	UV-124		Classroom	25	20	10	0.12	293	470
125A - 4th/3rd Grade	UV-125A		Classroom	25	20	10	0.12	293.6	470
125B - 4th/3rd Grade	UV-125B		Classroom	25	20	10	0.12	293.6	470
126A - 4th Grade	UV-126A		Classroom	25	20	10	0.12	293.6	470
126B - 4th Grade	UV-126B	4	Classroom	25	20	10	0.12	293.6	470
127 - 2nd Grade	UV-127		Classroom	25	20	10	0.12	293.6	470
128 - Primary Play Room	T-1 & T-2	100	Multi-Use Assembly	100	315	7.5	0.06	2663.4	3066
129 - 2nd Grade	UV-129	*	Classroom	25	20	10	0.12	293.6	470
131A - 2nd Grade	UV-131A		Classroom	25	20	10	0.12	293.6	470
131B - 2nd Grade	UV-131B		Classroom	25	20	10	0.12	293.6	470
133 - 2nd Grade	UV-133		Classroom	25	20	10	0.12	294.2	470
135A - 4th Grade 135B - 4th Grade	UV-135A		Classroom Classroom	25 25	11 11	10 10	0.12	160.4 160.4	210 210
137 - 4th Grade	UV-135B UV-137	140	Classroom	25	20	10	0.12	293	470
139 - 3rd Grade	UV-137		Classroom	25	20	10	0.12	293	470
141 - 3rd Grade	UV-141		Classroom	25	20	10	0.12	293	470
220 - 5th Grade	UV-220		Classroom	25	23	10	0.12	338	420
221 - 5th Grade	UV-221		Classroom	25	20	10	0.12	294.2	470
222 - 4th Grade	UV-221		Classroom	25	20	10	0.12	294.2	500
223 - 5th Grade	UV-223		Classroom	25	20	10	0.12	294.2	470
224 - Music Room	UV-227		Classroom	25	19	10	0.12	281.2	420
225 - 5th Grade	UV-225		Classroom	25	20	10	0.12	293.6	470
226 - 3rd Grade	UV-225	-	Classroom	25	20	10	0.12	293.6	470
226 - 3rd Grade 227 - 5th Grade	UV-226 UV-227A		Classroom	25	26	esperimental and it		F10 - 1970 - 1970 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 -	
	to Charles All the State and				NO. 15	10	0.12	382.4	500
228 - 3rd Grade	UV-228		Classroom	25	20	10	0.12	294.8	470
229 - 4th Grade	UV-229		Classroom	25	20	10	0.12	294.8	470
229A - 7th Grade	UV-229A	-	Classroom	25	25	10	0.12	370	500
231 - 5th Grade	UV-231	A CONTRACTOR OF THE PARTY OF TH	Classroom	25	25	10	0.12	370	500
233 - 3rd Grade	UV-233		Classroom	25	26	10	0.12	383.6	500
235A - Special Education	UV-235A		Classroom	25	15	10	0.12	219.6	210
235B - Special Education	UV-235B		Classroom	25	15	10	0.12	219.6	210
237 - Classroom	UV-237		Home-Ec	20	25	7.5	0.12	337.5	500
239 - 6th Grade	UV-239		Classroom	25	20	10	0.12	296	500
Resource	UV-224		Classroom	25	10	10	0.12	145	210
Classroom	UV-20		Classroom	25	11	10	0.12	159.32	470
Classroom	UV-21	416	Classroom	25	11	10	0.12	159.92	470



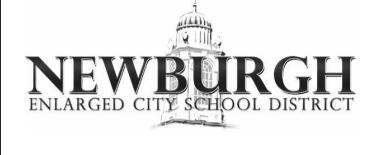
CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering prohitect angineer, or land surveyor shall office to a land surveyor shall office. is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates

## **NEWBURGH ENLARGED** CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



**TEMPLE HILL ACADEMY** 

525 UNION AVENUE NEW WINDSOR, NY 12553

NO:	DATE:	DESCRIPTION:
Revisions		
S.E.D. NUM	/IBER: 44-16-0	0-01-0-036-015
PROJECT N	NUMBER:	2233600
DRAWN BY	<b>/</b> ·	DRM
DRAWN BY REVIEWED		DRM MB

**VENTILATION TABLE** 

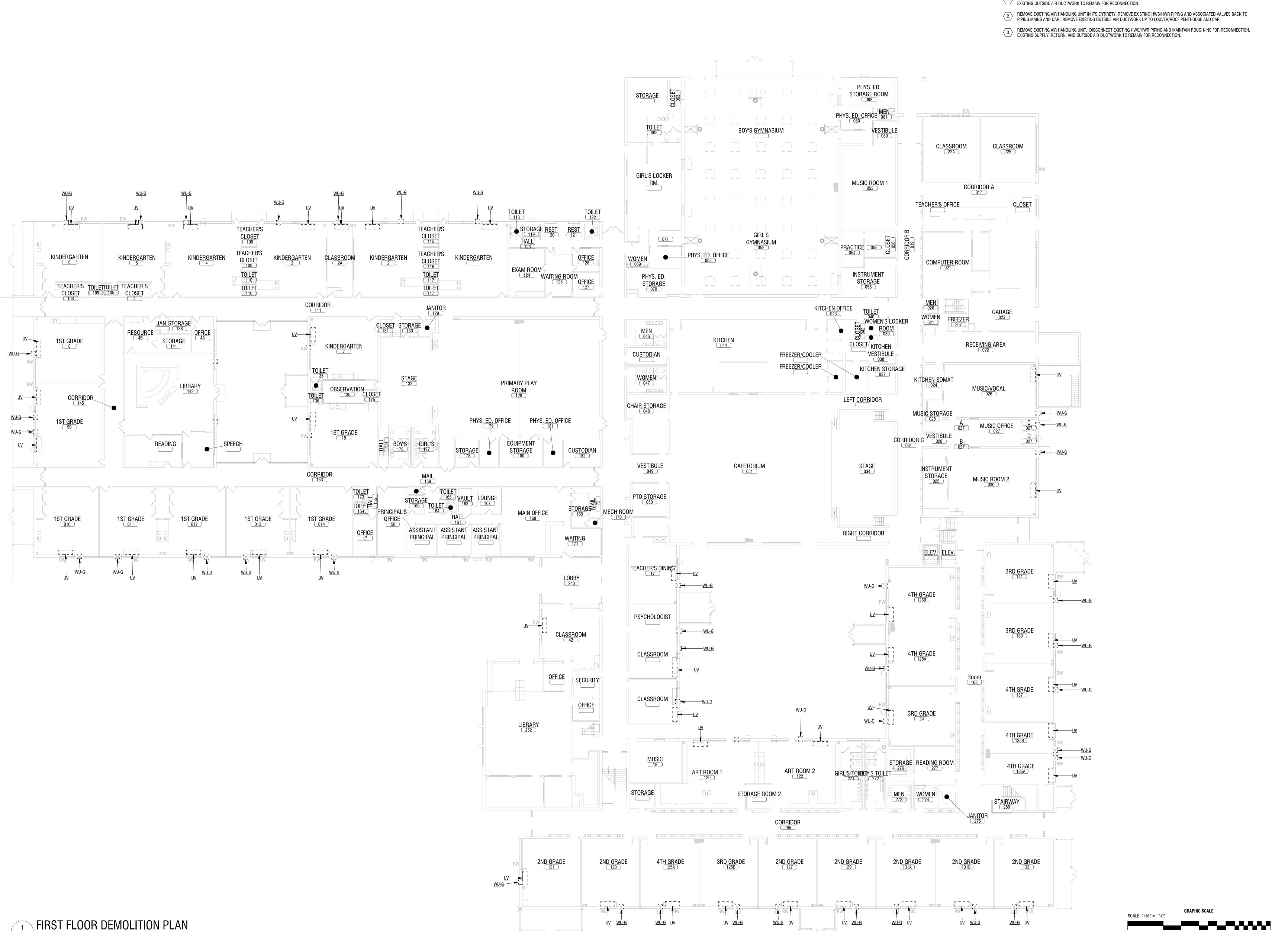
DRAWING NAME:

#### MECHANICAL NOTES:

- REMOVE UNIT VENTILATOR IN ITS ENTIRETY. DISCONNECT EXISTING HWS/HWR PIPING AND MAINTAIN ROUGH-INS FOR RECONNECTION. EXISTING OUTSIDE AIR LOUVER TO REMAIN FOR RECONNECTION.
- 2. REMOVE EXISTING WINDOW AIR CONDITIONING UNIT IN ITS ENTIRETY.

#### <u>KEY NOTES:</u>

REMOVE EXISTING AIR HANDLING UNIT. DISCONNECT EXISTING HWS/HWR PIPING AND MAINTAIN ROUGH-INS FOR RECONNECTION.





4 British American Boulevard Latham, NY 12110 (518) 273-0055 labellapc.com

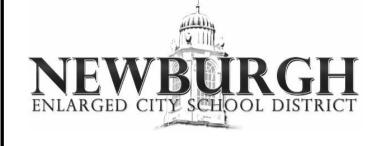
CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates

# NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



TEMPLE HILL ACADEMY

525 UNION AVENUE NEW WINDSOR, NY 12553

NO: DATE: DESCRIPTION:

Revisions

S.E.D. NUMBER: 44-16-00-01-0-036-015

PROJECT NUMBER:

2233600

DRAWN BY: DRM

REVIEWED BY: MB

ISSUED FOR:

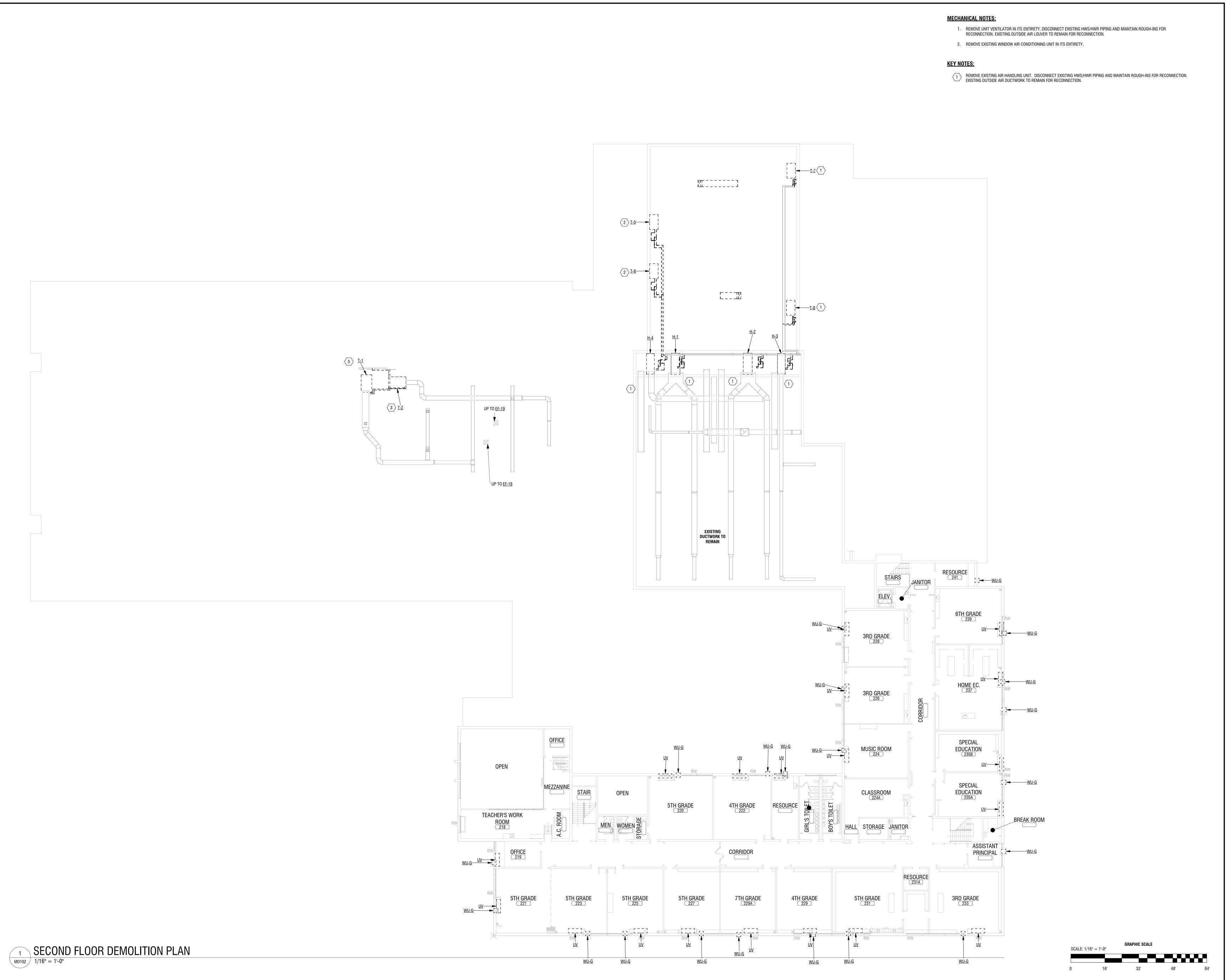
ADDENDUM 2

AWING NAME:

FIRST FLOOR DEMOLITION PLAN

DRAWING NUM

MD101



LaBella
Powered by partnership

4 British American Boulevard Latham, NY 12110 (518) 273-0055 labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281

PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates

# NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



**TEMPLE HILL ACADEMY** 

525 UNION AVENUE NEW WINDSOR, NY 12553

NO: DATE: DESCRIPTION:

Revisions

S.E.D. NUMBER: 44-16-00-01-0-036-015

PROJECT NUMBER:

2233600

DRAWN BY: DRM

REVIEWED BY: MB

ISSUED FOR:

ADDENDUM 2

DATE: 12/11/20

DRAWING NAME:

SECOND FLOOR

**DEMOLITION PLAN** 

DRAWING NUMBER

**MD102** 

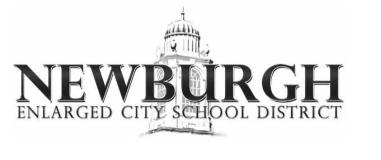
CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates

# **NEWBURGH ENLARGED** CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

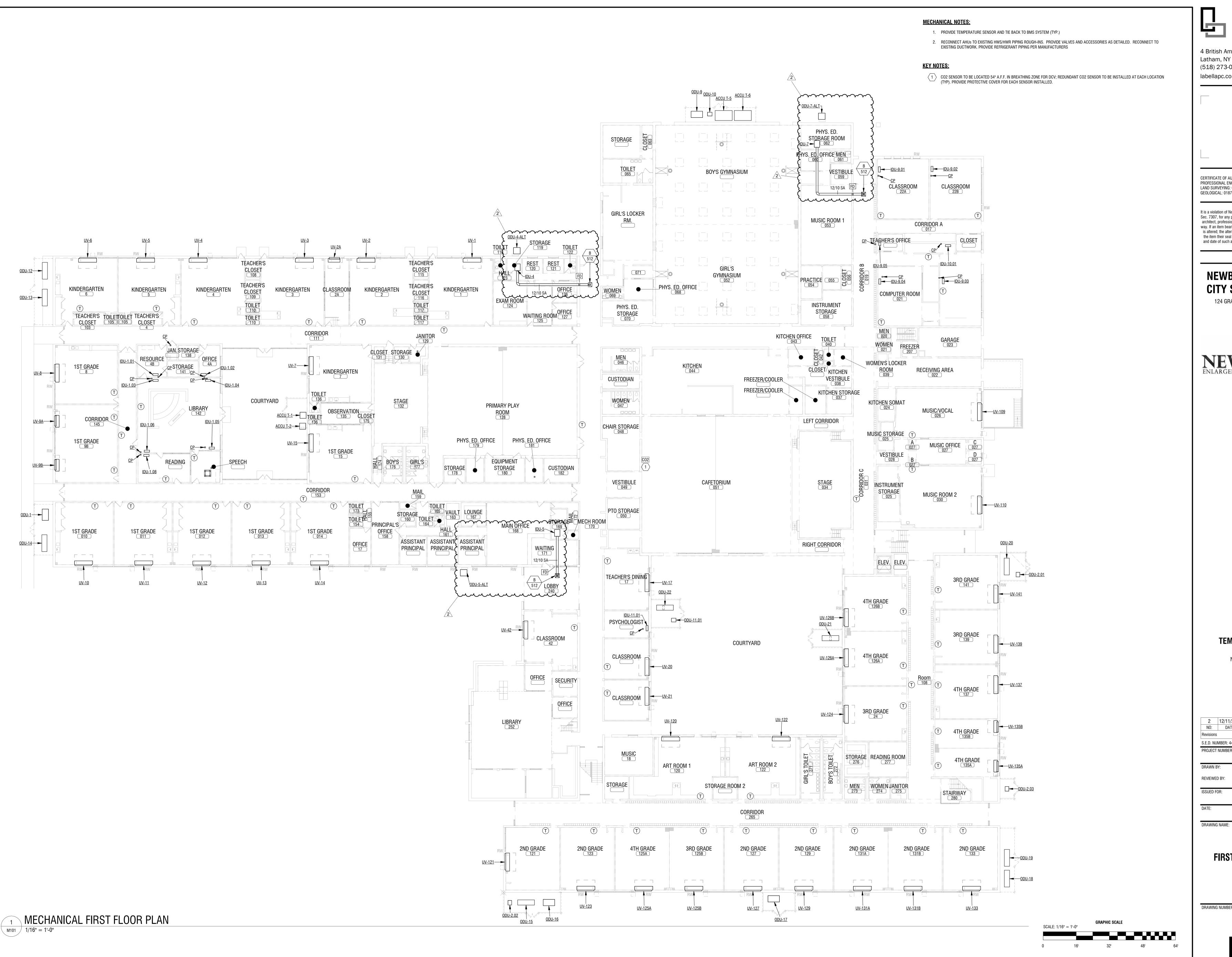


**TEMPLE HILL ACADEMY** 525 UNION AVENUE NEW WINDSOR, NY 12553

NO: DATE: S.E.D. NUMBER: 44-16-00-01-0-036-015 PROJECT NUMBER: DRAWN BY: REVIEWED BY: ISSUED FOR: ADDENDUM 2

**ROOF DEMOLITION PLAN** 

**MD103** 



4 British American Boulevard Latham, NY 12110 (518) 273-0055

labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates

## **NEWBURGH ENLARGED** CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



**TEMPLE HILL ACADEMY** 

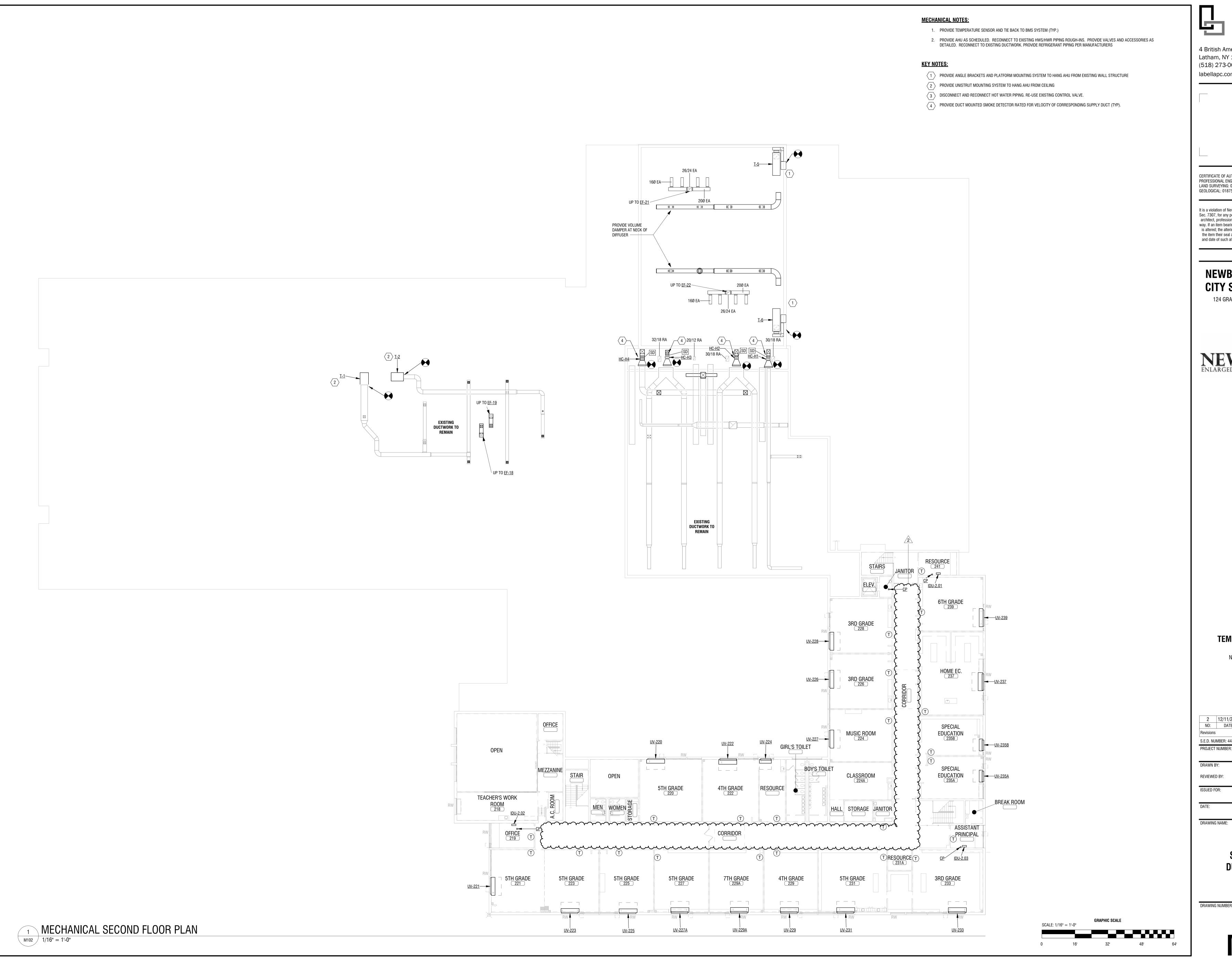
525 UNION AVENUE NEW WINDSOR, NY 12553

2	12/11/2024	BID ADDENDUM 2
NO:	DATE:	DESCRIPTION:
Revisions	1	
S.E.D. NU	IMBER: 44-16-0	0-01-0-036-015
PROJECT	NUMBER:	2233600
DRAWN E	BY:	DRM
REVIEWE	D BY:	MB
ISSUED F	OR:	
		ADDENDUM 2

FIRST FLOOR DUCTWORK

PLAN

12/11/2024





4 British American Boulevard Latham, NY 12110 (518) 273-0055

labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates

### **NEWBURGH ENLARGED** CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



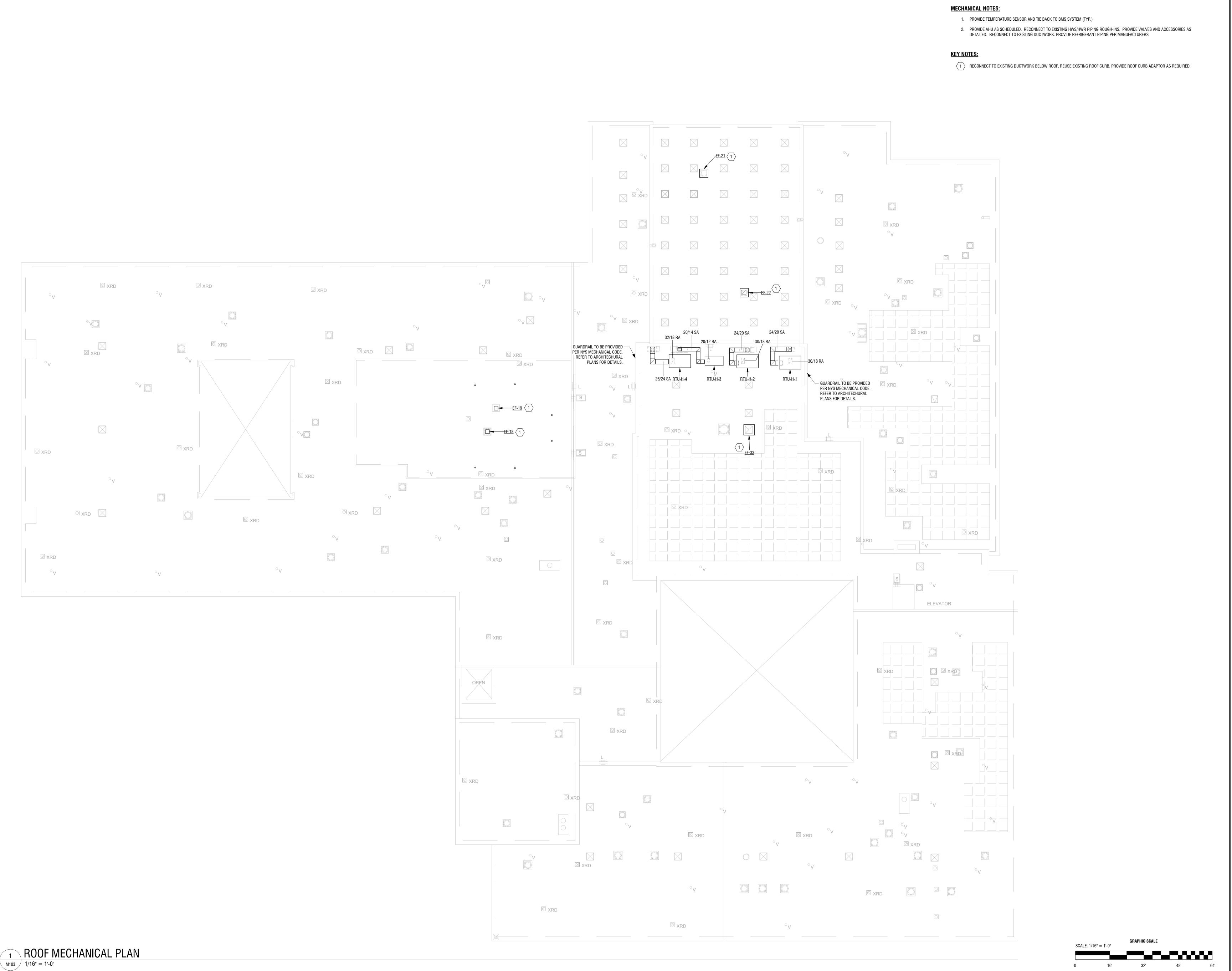
**TEMPLE HILL ACADEMY** 

525 UNION AVENUE NEW WINDSOR, NY 12553

2 12/11/2024 NO: DATE: BID ADDENDUM 2 S.E.D. NUMBER: 44-16-00-01-0-036-015 PROJECT NUMBER: DRAWN BY: REVIEWED BY: ISSUED FOR:

ADDENDUM 2

SECOND FLOOR **DUCTWORK PLAN** 



LaBella
Powered by partnership

4 British American Boulevard Latham, NY 12110 (518) 273-0055 labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976

GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates

# NEWBURGH ENLARGED CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



TEMPLE HILL ACADEMY

525 UNION AVENUE NEW WINDSOR, NY 12553

NO: DATE: DESCRIPTION:

Revisions

S.E.D. NUMBER: 44-16-00-01-0-036-015

PROJECT NUMBER:

2233600

DRAWN BY: DRM

REVIEWED BY: MB

ISSUED FOR:

ADDENDUM 2

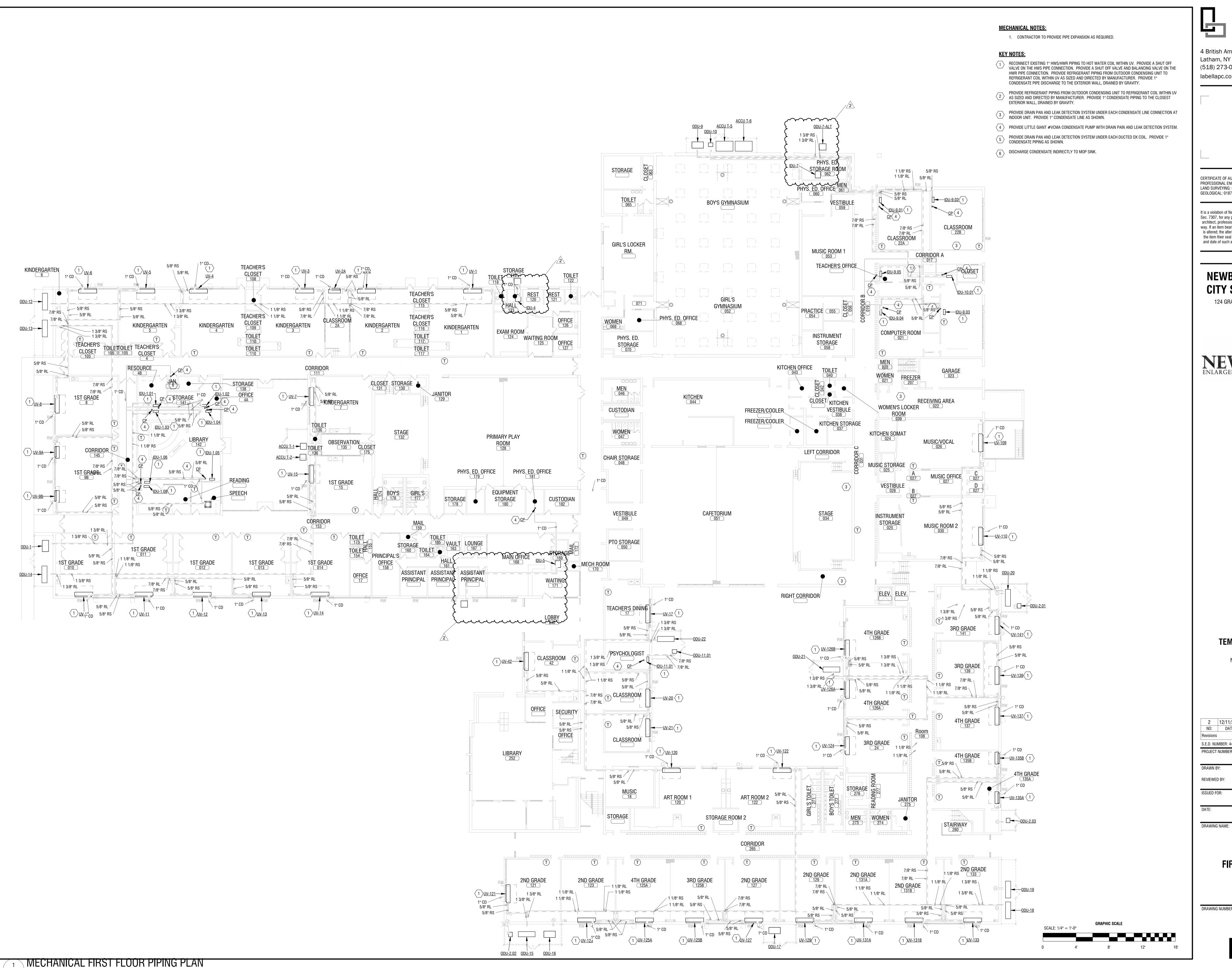
DATE: 12/11/2024

AWING NAME.

**ROOF EQUIPMENT PLAN** 

DRAWING NUM

M103





CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates

#### **NEWBURGH ENLARGED** CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

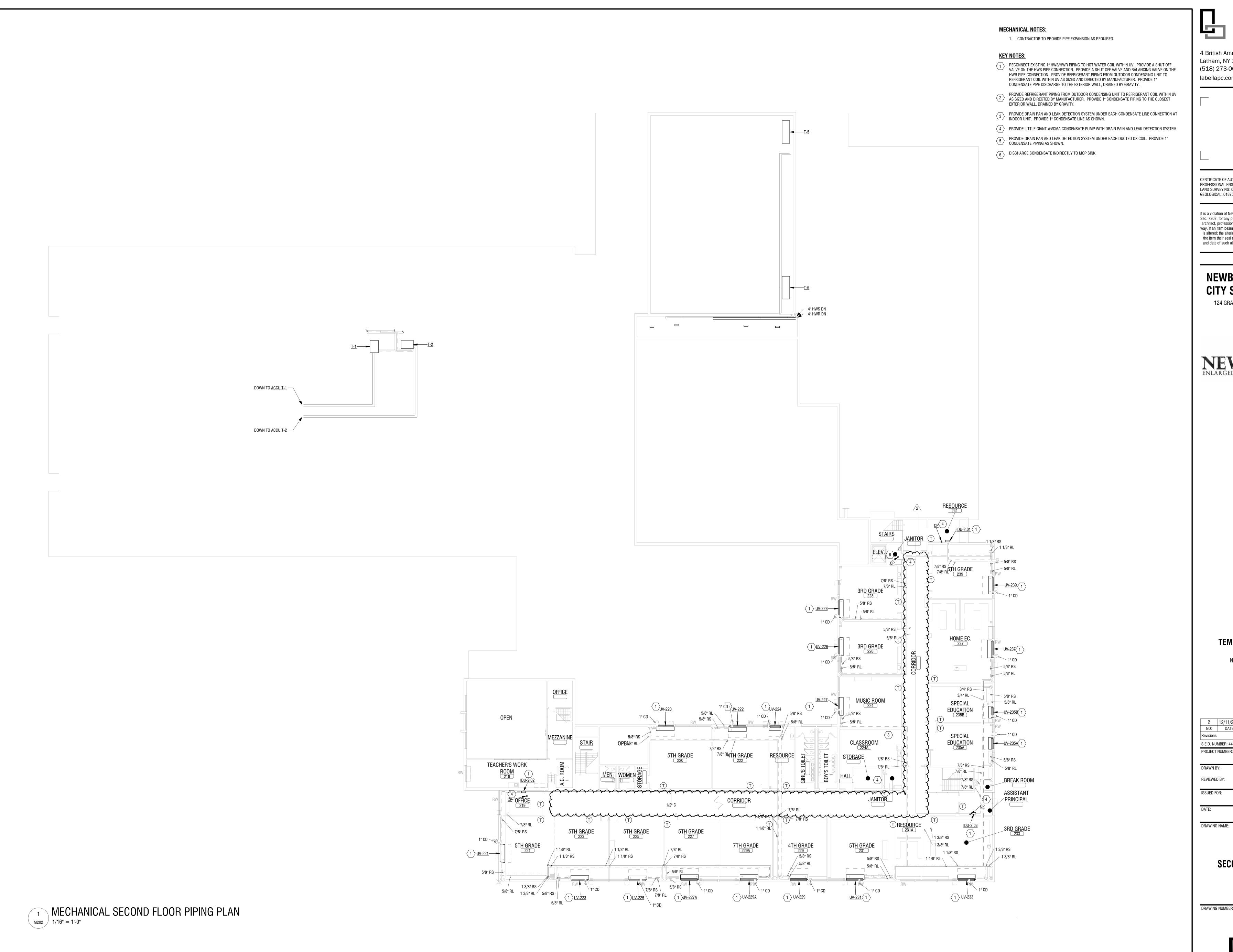


**TEMPLE HILL ACADEMY** 

525 UNION AVENUE NEW WINDSOR, NY 12553

2	12/11/2024	BID ADDENDUM 2						
NO: DATE: DESCRIPTION:								
Revisions								
S.E.D. NUN	/IBER: 44-16-0	0-01-0-036-015						
PROJECT NUMBER:								
2233600								
DRAWN BY	<b>/</b> :	DRM						
	DV/	DITIVI						
REVIEWED	RA:	MB						
ISSUED FO	D·							
IOOULD FU	n.	ADDENDUM 2						

FIRST FLOOR PIPING



CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates

### **NEWBURGH ENLARGED** CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

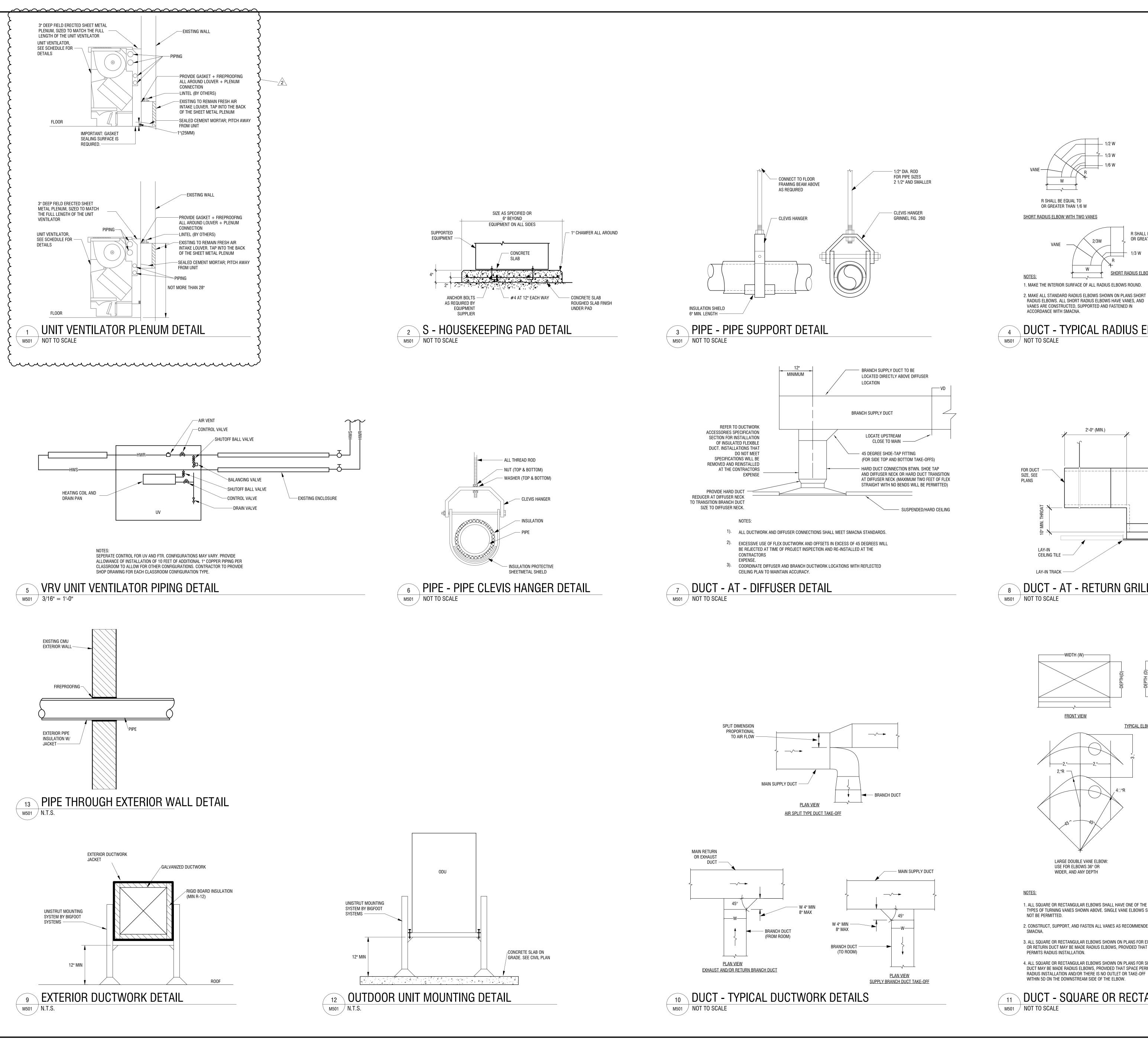


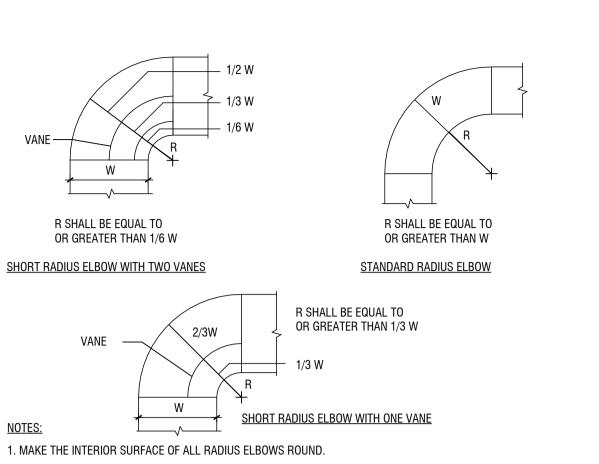
**TEMPLE HILL ACADEMY** 

525 UNION AVENUE NEW WINDSOR, NY 12553

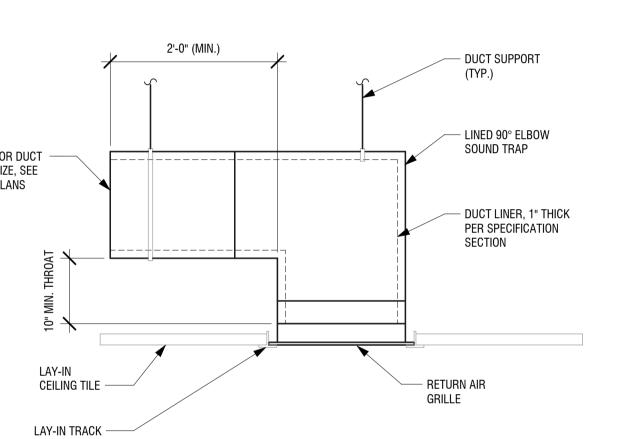
2	12/11/2024	BID ADDENDUM 2
NO:	DATE:	DESCRIPTION:
Revisions		
S.E.D. NU	MBER: 44-16-0	0-01-0-036-015
PROJECT	NUMBER:	
		2233600
DRAWN B		2233600 DRM
DRAWN E	BY:	

**SECOND FLOOR PIPING** 

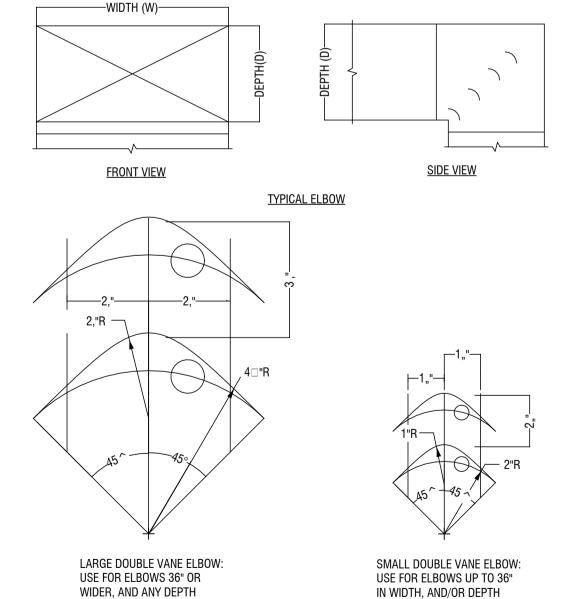




4 DUCT - TYPICAL RADIUS ELBOWS



8 DUCT - AT - RETURN GRILLE W/ SOUND/LIGHT TRAP



1. ALL SQUARE OR RECTANGULAR ELBOWS SHALL HAVE ONE OF THE TWO TYPES OF TURNING VANES SHOWN ABOVE. SINGLE VANE ELBOWS SHALL

2. CONSTRUCT, SUPPORT, AND FASTEN ALL VANES AS RECOMMENDED BY

3. ALL SQUARE OR RECTANGULAR ELBOWS SHOWN ON PLANS FOR EXHAUST OR RETURN DUCT MAY BE MADE RADIUS ELBOWS, PROVIDED THAT SPACE

4. ALL SQUARE OR RECTANGULAR ELBOWS SHOWN ON PLANS FOR SUPPLY DUCT MAY BE MADE RADIUS ELBOWS, PROVIDED THAT SPACE PERMITS RADIUS INSTALLATION AND/OR THERE IS NO OUTLET OR TAKE-OFF

DUCT - SQUARE OR RECTANGULAR ELBOWS

CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

4 British American Boulevard

Latham, NY 12110 (518) 273-0055

labellapc.com

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates

**NEWBURGH ENLARGED** CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



**TEMPLE HILL ACADEMY** 

**525 UNION AVENUE** NEW WINDSOR, NY 12553

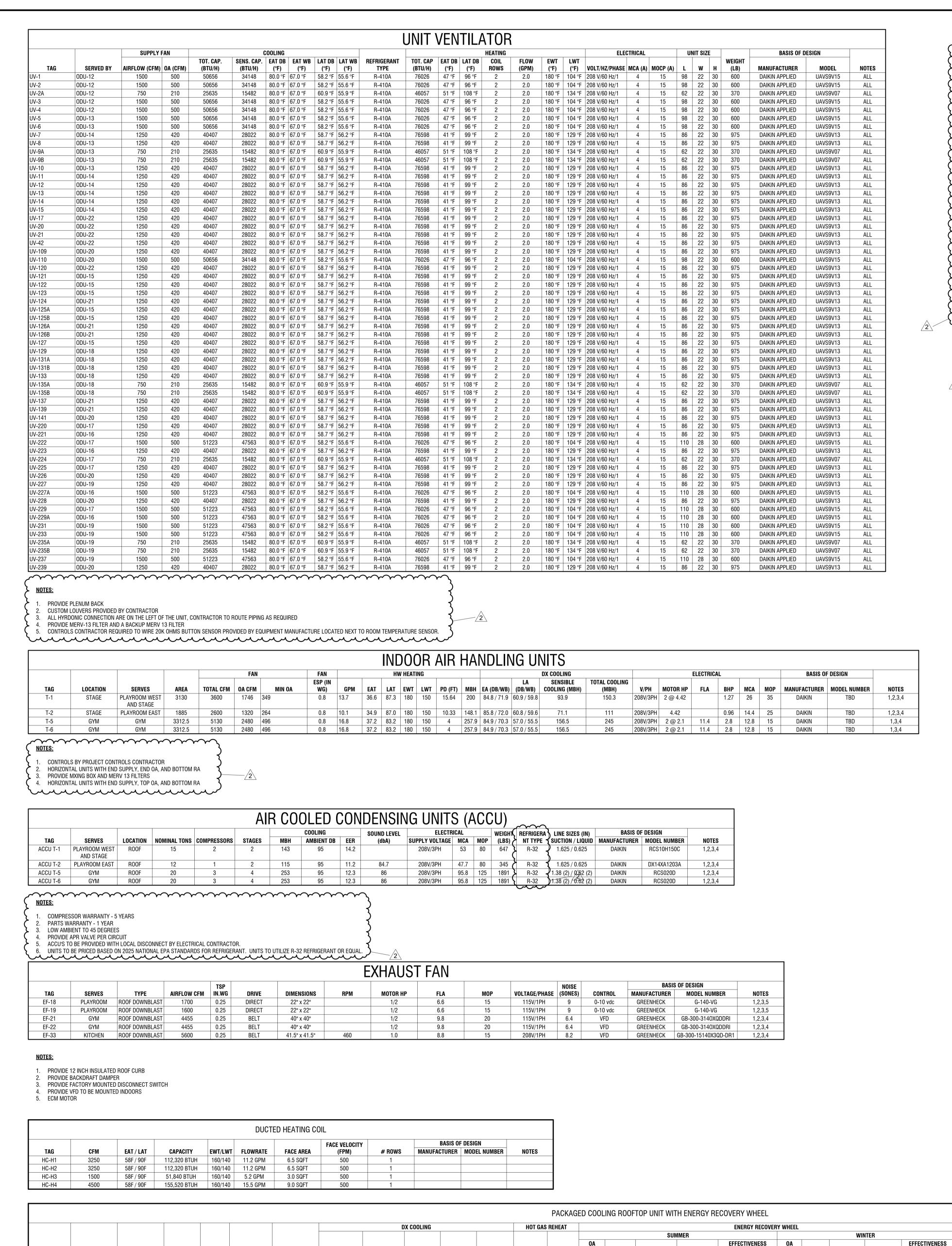
**BID ADDENDUM 2** 2 | 12/11/2024 NO: DATE: DESCRIPTION: Revisions S.E.D. NUMBER: 44-16-00-01-0-036-015 PROJECT NUMBER: 2233600 DRAWN BY: REVIEWED BY: ISSUED FOR: ADDENDUM 2

**MECHANICAL DETAILS** 

12/11/2024

DRAWING NUMBER:

DRAWING NAME:



DB/WB RA DB/WB

CAPACITY

95

37,774 BTUH 35,059 BTUH R32 76.8F/63.5F 54F/54F 25,734 BTUH 70F/60F 95F/75F 75F/62F 78.5F/63.5F 95 0.73 0.74 0F/0F 75F/50F 58.8F/43.9F 144,599 BTUH 0.74 0.75 121.6 X 85.9 X 73.4 2452 208V/3PH

0.78 0.8

0F/0F 75F/50F

0.78 0.8

78.5F/63.5F 57,020 BTUH

CAPACITY LAT DB/WB EAT EAT

76.8F/63.5F 53F/53F 60,398 BTUH 70F/59F 95F/75F 75F/62F

R32 76.8F/63.5F 53F/53F 60,398 BTUH 70F/59F 95F/75F 75F/62F 78.5F/63.5F

12.0/21.7

12.0/21.7

RTU-H-3

. UNIT TO BE INSTALLED ON NEW CURB AND UTILIZE EXISTING OPENING THROUGH ROOF STRUCTURE

96,476 BTUH 81,395 BTUH

96,476 BTUH 81,395 BTUH

	NOMINAL REFRIGERANT		FRIGERANT			ELECTRICAL				BASIS OF	DESIGN		
TAG	HEATING CAPACITY (BTU/H)	NOMINAL COOLING Capacity (BTU/H)	TYPE	FACTORY CHARGE (LBS)	DIMENSIONS (L X W X H)	WEIGHT (LBS)	VOLTAGE/PHASE	RLA	MCA	МОР	MANUFACTURER	MODEL NUMBER	NOTE
ODU-1	73,000	69,000	R-410A	13.0	65-2/5" X 36-11/16" X 30-3/16"	496	208V/3PH	11.1	27.3	30	DAIKIN	RXYQ72AATJA	
ODU-2.01	13,400	10,600	R-32	2.09	21-5/8" X 26-9/16" X 11-3/16"	70	208V/1PH	12.0	13.0	15	DAIKIN	RXL12QMVJU9	
0DU-2.02	13,400	10,600	R-32	2.09	21-5/8" X 26-9/16" X 11-3/16"	70	208V/1PH	12.0	13.0	15	DAIKIN	RXL12QMVJU9	
ODU-2.03	13,400	10,600	R-32	2.09	21-5/8" X 26-9/16" X 11-3/16"	70	208V/1PH	12.0	13.0	15	DAIKIN	RXL12QMVJU9	
ODU-4-ALT	20,600	17,7000	R-410A	6.4	$39 \times 37 \times 12 - 5/8$	172	208V/1PH	15.3	16.5	20	DAIKIN	RZQ18TBVJUA 1	
ODU-5-ALT	20,600	17,7000	R-410A	6.4	$39 \times 37 \times 12 - 5/8$	172	208V/1PH	15.3	16.5	20	DAIKIN	RZQ18TBVJUA 1	
ODU-7-ALT	20,600	17,7000	R-410A	6.4	$39 \times 37 \times 12 - 5/8$	172	208V/1PH	15.3	16.5	20	DAIKIN	RZQ18TBVJUA 1	
ODU-9	108,000	96,000	R-410A	22.7	66-11/16" X 36-11/16" X 30-3/16"	525	208V/3PH	23.8	36.3	45	DAIKIN	RXYQ96AATJA	
ODU-10	N/A	13,300	R-410A	2.09	21-11/16" X 26-1/2" X 11-3/16"	60	208V/1PH	2.9	4	15	DAIKIN	RK12BXVJU	
ODU-11.01	13,400	10,600	R-32	2.09	21-5/8" X 26-9/16" X 11-3/16"	70	208V/1PH	12.0	13.0	15	DAIKIN	RXL12QMVJU9	
0DU-12	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	21.3	36.5	40	DAIKIN	RXYQ264AATJA	
0DU-13	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	21.3	36.5	40	DAIKIN	RXYQ264AATJA	
0DU-14	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	21.3	36.5	40	DAIKIN	RXYQ264AATJA	
0DU-15	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	21.3	36.5	40	DAIKIN	RXYQ264AATJA	
ODU-16	73,000	69,000	R-410A	13.0	66-11/16" X 36-11/16" X 30-3/16"	496	208V/3PH	11.1	27.3	30	DAIKIN	RXYQ72AATJA	
0DU-17	73,000	69,000	R-410A	13.0	48-13/16" X 30-1/8" X 30-3/16"	496	208V/3PH	11.1	27.3	30	DAIKIN	RXYQ72AATJA	
ODU-18	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	21.3	36.5	40	DAIKIN	RXYQ264AATJA	
ODU-19	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	21.3	36.5	40	DAIKIN	RXYQ264AATJA	
0DU-20	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	21.3	36.5	40	DAIKIN	RXYQ264AATJA	
0DU-21	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	21.3	36.5	40	DAIKIN	RXYQ264AATJA	
0DU-22	297,000	264,000	R-410A	25.4 + 25.8	97 5/8" X 30 1/8" X 65 3/8"	1433	208V/3PH	21.3	36.5	40	DAIKIN	RXYQ264AATJA	

				HEATING	TOTAL COOLING	SENSIBLE							BASIS O	F DESIGN
T40	OEDVED DV	TVDE	AIDELOW (II/M/I)	CAPACITY	CAPACITY	COOLING	DIMENOIONO (II V W V D)	WEIGHT	WOLTAGE (BUAGE			MOD		
TAG	SERVED BY	TYPE	AIRFLOW (H/M/L)	(BTU/H)	+ , , , ,	CAPACITY (BTU/H)	, ,	(LBS)	VOLTAGE/PHASE	FLA	MCA	MOP		FXAQ07PVJU
IDU-1.01 IDU-1.02	0DU-1 0DU-1	WALL MOUNTED WALL MOUNTED	260/160 260/160	8,700 8,700	7,500 7,500	6,000 6,000	11-3/8"X31-1/4"X9-1/4" 11-3/8"X31-1/4"X9-1/4"	26 26	208V/1PH 208V/1PH		0.4	15 15	DAIKIN DAIKIN	FXAQ07PVJU
IDU-1.02	0DU-1	WALL MOUNTED	290/180	14,000	12,000	8,700	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH		0.4	15	DAIKIN	FXAQ12PVJU
IDU-1.03	0DU-1	WALL MOUNTED	290/180	14,000	12,000	8,700	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH		0.4	15	DAIKIN	FXAQ12PVJU
IDU-1.05	0DU-1	WALL MOUNTED	290/180	14,000	12,000	8,700	11-3/8"X31-1/4"X9-1/4" 11-3/8"X31-1/4"X9-1/4"	26	208V/1PH		0.4	15	DAIKIN	FXAQ12PVJU
IDU-1.06	0DU-1	WALL MOUNTED	290/180	14,000	12,000	8,700	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH		0.4	15	DAIKIN	FXAQ12PVJU
IDU-1.07	ODU-1	2X2 CASSETTE	441/406/353	13,500	12,000	-	9-11/16" x 33-1/16" x 33-1/16"	42	208V/1PH		-	15	DAIKIN	FXFA12AAVJU
IDU-1.08	ODU-1	WALL MOUNTED	260/160	8,700	7,500	6,000	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH		0.4	15	DAIKIN	FXAQ07PVJU
IDU-2.01	ODU-2	WALL MOUNTED	434/311/247	13,400	13,300	10,600	11-1/4" X 30-5/16" X 8-3/4"	18	208V/1PH		0.4	15	DAIKIN	FTX12NMVJU
IDU-2.02	ODU-2	WALL MOUNTED	434/311/247	13,400	13,300	10,600	11-1/4" X 30-5/16" X 8-3/4"	18	208V/1PH		0.4	15	DAIKIN	FTX12NMVJU
IDU-2.03	ODU-2	WALL MOUNTED	434/311/247	13,400	13,300	10,600	11-1/4" X 30-5/16" X 8-3/4"	18	208V/1PH		0.4	15	DAIKIN	FTX12NMVJU
IDU-4	ODU-4-ALT	FAN COIL	635 / 565 / 512	20,600	17,700	-	$9-11/16 \times 39-3/8 \times 31-1/2$	77		1.5	1.9	15	DAIKIN	FBQ18TBVJU
IDU-5	ODU-5-ALT	FAN COIL	635 / 565 / 512	20,600	17,700	-	$9-11/16 \times 39-3/8 \times 31-1/2$	77		1.5	1.9	15	DAIKIN	FBQ18TBVJU
IDU-7	ODU-7-ALT	FAN COIL	635 / 565 / 512	20,600	17,700	-	$9-11/16 \times 39-3/8 \times 31-1/2$	77	· · · · · · · · · · · · · · · · · · ·	1.5	1.9	15	DAIKIN	FBQ18TBVJU
IDU-9.01	ODU-9	WALL MOUNTED	635/470	26,500	24,000	18,000	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH		0.4	15	DAIKIN	FXAQ24PVJU
IDU-9.02	ODU-9	WALL MOUNTED	635/470	26,500	24,000	18,000	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH		0.4	15	DAIKIN	FXAQ24PVJU
IDU-9.03	ODU-9	WALL MOUNTED	635/470	26,500	24,000	18,000	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH		0.4	15	DAIKIN	FXAQ24PVJU
IDU-9.04	ODU-9	WALL MOUNTED	635/470	26,500	24,000	18,000	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH		0.4	15	DAIKIN	FXAQ24PVJU
IDU-9.05	ODU-9	WALL MOUNTED	635/470	8,500	7,500	6,300	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH		0.4	15	DAIKIN	FXAQ07PVJU
DU-10.01	ODU-10	WALL MOUNTED	316/247/132	N/A	12,000	10,900	10-1/4" X 22-5/8" X 22-5/8"	18	208V/1PH		0.4	15	DAIKIN	FTK12B
IDU-11.01	ODU-1	WALL MOUNTED	290/180	14,000	12,000	8,700	11-3/8"X31-1/4"X9-1/4"	26	208V/1PH		0.4	15	DAIKIN	FXAQ12PVJU
	IDE CONDENSATE PL	BMS SYSTEM												
2. INTEG 3. PROV 4. UNIT 5. UNIT				~~~	 	FUSER	~~~~~	~~ ~~	~~~~	~~ ~~	~~~	~~ ~~	~~~  }	·····
2. INTEG 3. PROV 4. UNIT 5. UNIT	IDED AS AN ADD/AL <sup>-</sup> TO BE SET TO LOW S TO BE R-32, MODEL	SPEED TO BE DETERMINED AT A I		~~~	DIF	FUSER	~~~~~	~~	BASIS OF DESIGN	~~~	~~~	~~~		·····
<ol> <li>INTEG</li> <li>PROV</li> <li>UNIT</li> <li>UNIT</li> </ol>	IDED AS AN ADD/ALTO BE SET TO LOW STO BE R-32, MODEL	SPEED TO BE DETERMINED AT A I	~~~~	~~~				MANUI	BASIS OF DESIGN		NO NO	TES		~~~~
<ol> <li>INTEG</li> <li>PROV</li> <li>UNIT</li> <li>UNIT</li> </ol>	IDED AS AN ADD/ALTO BE SET TO LOW STO BE R-32, MODEL	SPEED TO BE DETERMINED AT A I		~~~	N	IECK SIZE M			FACTURER M	N ODEL RID	NO.	TES		·····

BASIS OF DESIGN

121.6 X 85.9 X 73.4 2299 208V/3PH

DPSC07B

DPSC07B

DPSC03B



4 British American Boulevard Latham, NY 12110 (518) 273-0055 labellapc.com

CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281 LAND SURVEYING: 017976 GEOLOGICAL: 018750

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates

#### **NEWBURGH ENLARGED** CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550



TEMPLE HILL ACADEMY

525 UNION AVENUE **NEW WINDSOR, NY 12553** 

2	12/11/2024	BID ADDENDUM 2
NO:	DATE:	DESCRIPTION:
Revisions		
S.E.D. NU	MBER: 44-16-0	0-01-0-036-015
PROJECT	NUMBER:	2233600
DRAWN B	Y:	DRM
		DRM MB
DRAWN B	D BY:	

12/11/2024

MECHANICAL SCHEDULES

DRAWING NUMBER:

DRAWING NAME:

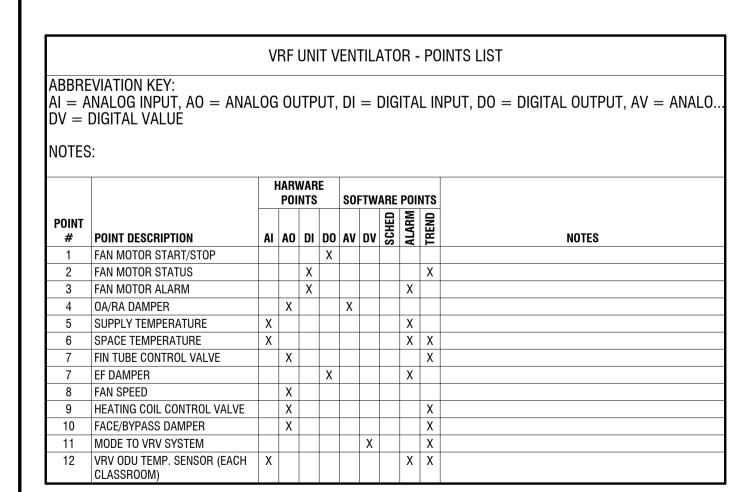
	HALLWAY SPLIT SYSTEM - POINTS LIST											
POINT		READ	READ/WRITE	SOFTWARE POINTS								
#	POINT DESCRIPTION	POINTS	POINTS	SCHEDULE	ALARM	TREND	NOTES					
1	SYSTEM ENABLE/DISABLE		X									
2	OCCUPIED HEATING SETPOINT		X									
<u>3</u>	UNOCCUPIED HEATING SETPOINT		<u>X</u>									
4	OCCUPIED COOLING SETPOINT		X									
<u>5</u>	UNOCCUPIED COOLING SETPOINT		<u>X</u>									
<u>6</u>	<u>GENERAL ALARM</u>		X		X							
<u>7</u>	SPACE TEMPERATURE	<u>X</u>			X	X						

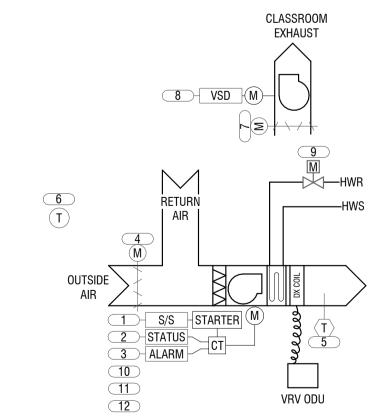
	OFFICE SPLIT SYSTEM - POINTS LIST										
POINT		READ	READ/WRITE	SOFTWARE POINTS							
#	POINT DESCRIPTION	POINTS	POINTS	SCHEDULE	ALARM	TREND	NOTES				
1	SYSTEM ENABLE/DISABLE		X								
2	OCCUPIED MODE		X	X							
<u>3</u>	UNOCCUPIED MODE		X	X							
4	GENERAL ALARM		<u>X</u>		X						
<u>5</u>	SPACE TEMPERATURES	X			X	X	PROVIDE USER ADJUSTABLE THERMOSTATS IN EACH SPACE				

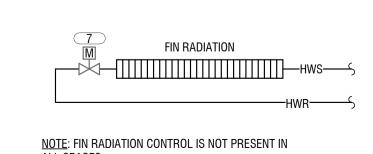
1. CONTRACTOR TO PROGRAM DEFAULT HEATING AND COOLING SETPOINTS CONTRACTOR TO PROGRAM SETPOINT ADJUSTMENT RANGE +/- 2 DEG. F SCHEDULES SHALL BE PROGRAMMED IN BMS OR SPLIT SYSTEM CONTROLLER

ACCUS - POINTS LIST										
POINT		READ	READ/WRITE	SOFTW						
#	POINT DESCRIPTION	POINTS	POINTS	SCHEDULE	ALARM	TREND	NOTES			
1	SYSTEM ENABLE/DISABLE		X							
2	COMPRESSOR STATUS	X			X					
<u>3</u>	MODEL SELECT (HEATING/COOLING)		X			X				
<u>4</u>	GENERAL ALARM				X					
<u>5</u>	COMPRESSOR START/STOP (2)		<u>X</u>			X				

1. CONTRACTOR TO PROGRAM DEFAULT HEATING AND COOLING SETPOINTS 2. CONTRACTOR TO PROGRAM SETPOINT ADJUSTMENT RANGE +/- 2 DEG. F B. SCHEDULES SHALL BE PROGRAMMED IN BMS OR SPLIT SYSTEM CONTROLLER







OCCUPIED MODE: THE UNIT SHALL MAINTAIN A 70°F (ADJ.) HEATING SETPOINT, 74°F COOLING SETPOINT.

60°F (ADJ.) HEATING SETPOINT, 80°F COOLING SETPOINT.

THE OCCUPANT SHALL BE ABLE TO ADJUST THE SPACE TEMPERATURE

UNOCCUPIED MODE: (NIGHT SETBACK): THE UNIT SHALL MAINTAIN A

HEATING SETPOINT AT THE SPACE SENSOR. F/B DAMPER AND HEATING COIL VALVE:

THE CONTROLLER SHALL MEASURE THE SPACE TEMPERATURE. WHENEVER THE SPACE TEMPERATURE FALLS BELOW THE HEATING SETPOINT, MODULATE THE FACE AND BYPASS DAMPER TO MAINTAIN SETPOINT. THE HOT WATER COIL VALVE SHALL BE OPEN. HEATING SHALL BE ENABLED WHENEVER: -OUTSIDE AIR TEMPERATURE IS LESS THAN 50°F (ADJ.) AND OAT < 40F -COIL 100% OPEN AND MODULATE F/B DAMPER TO MAINTAIN TEMPERATURE OR OAT>40f - F/B FULL FACE AND MODULATE COIL TO MAINTAIN TEMEPERATURE -THE SPACE TEMPERATURE IS BELOW HEATING SETPOINT.

ECONOMIZER MODE WHEN OUTSIDE AIR IS ABOVE 60°F (ADJ.):

WHENEVER THE F/B DAMPER IS IN FULL BYPASS POSITION AND THE SPACE TEMPERATURE RISES ABOVE SPACE SETPOINT, THE HOT WATER COIL SHALL CLOSE. UPON FURTHER RISE IN TEMPERATURE, THE OUTSIDE AIR DAMPER SHALL OPEN TO 100% TO ALLOW FOR

<u>DISCHARGE AIR TEMPERATURE</u>: THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR

**OUTSIDE AIR DAMPER**: THE OUTSIDE AIR DAMPER SHALL OPEN TO ITS MINIMUM OUTSIDE AIR POSITION WHENEVER: -THE UNIT IS IN OCCUPIED MODE AND -THE FAN IS ON.

**EXISTING BUILDING CONTROLS:** WHEN OA DAMPERS OPEN, EXG. RELIEF AIR DAMPERS SHALL OPEN AND RELIEF AIR EXHAUST FANS SHALL RUN.

DURING OCCUPIED MODE THE SUPPLY FAN WILL RUN AT A CONSTANT, MANUALLY DESIGNATED SPEED (LOW/MED/HIGH). THE CONTROLLER SHALL MONITOR THE FAN STATUS.

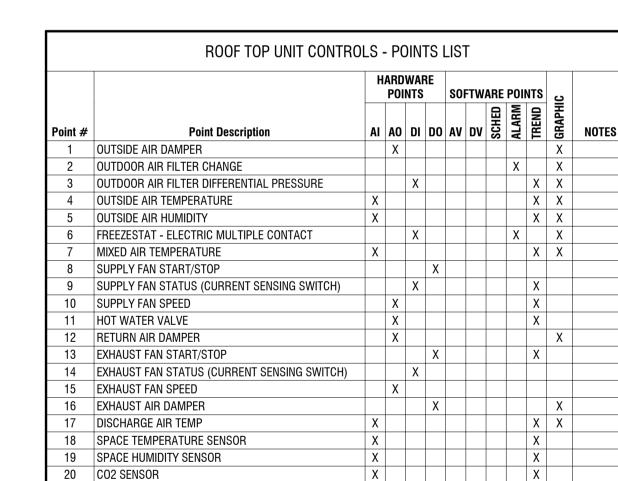
- HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.). - LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.). - HIGH SPACE TEMPERATURE: IF THE SPACE TEMPERATURE IS GREATER THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT. - LOW SPACE TEMPERATURE: IF THE SPACE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT.

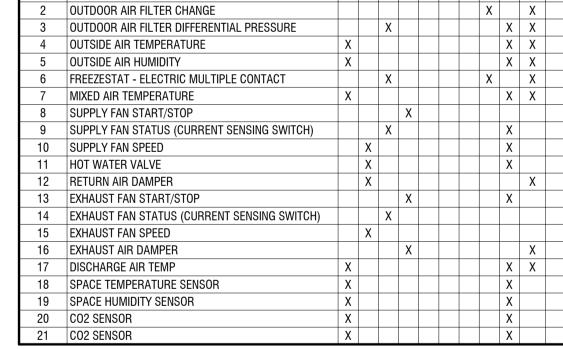
FIN RADIATION HEATING VALVE (IF EXISTING IN PLACE): WHERE EXISTING, THE FIN RADIATION SHALL: -PROVIDE THE SECOND STAGE OF HEATING. -PROVIDE UNOCCUPIED MODE HEATING.

- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.

-BE DISABLED WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 60 DEG F

EXISTING RELIEF SYSTEM SHALL OPERATE DURING OCCUPIED MODES AND BE OFF DURING UNOCCUPIED MODE.





ALARMS SHALL BE PROVIDED AS FOLLOWS:

AN ALARM SHALL BE GENERATED BY EACH OF THE ALARMS SHOWN ON THE POINTS LIST. IF ANY DIGTAL STATUS POINT DISAGREES WITH THE COMMAND FOR MORE THAN 5 MINUTES AN ALARM

IF ANY TEMPERATURE SETPOINT IS MORE THAN 4 DEGREES FROM THE SETPOINT FOR MORE THEN 10

MINUTES, AN ALARM SHALL BE GENERATED • FILTER CHANGE NOTIFICATION: FILTER DIFFERENTIAL PRESSURE EXCEEDS SETPOINT (ADJ.). FAN SHUTDOWN UPON DUCT SMOKE DETECTOR ACTIVATION

THE SUPPLY FAN SHALL BE RUN CONTINUOUSLY UNLESS SHUTDOWN BY SAFETIES. THE SUPPLY AIR FANS SPEED SHALL BE OPTIMIZED IN THE FIELD DURING SYSTEM BALANCING TO DELIVER THE SCHEDULED SUPPLY AIRFLOW. THE OA AND RA DAMPERS SHALL BE POSITIONED TO DELIVER THE APPROPRIATE AMOUNT OF OUTSIDE AIR AS

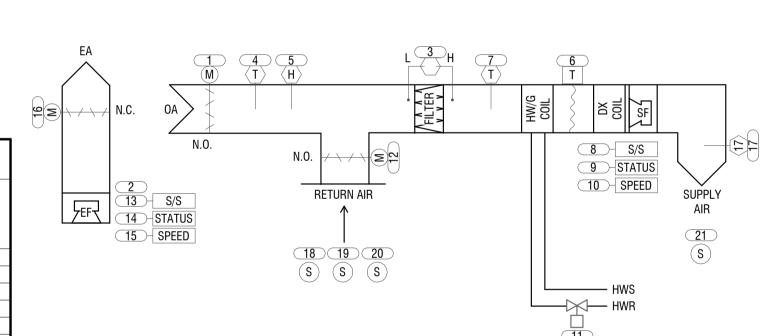
THE EXHAUST FAN SHALL RUN CONTINUOUSLY. THE SPEED SHALL BE MODULATED ACCORDING TO THE OUTSIDE AIR DAMPER POSITION. THE MODULATION SCHEDULE SHALL BE SET BY THE AIR BALANCER. UNOCCUPIED MODE

GIDNEY SEQUENCE

DESCRIBED BELOW.

 THE SUPPLY FAN AND EXHAUST FAN SHALL BE OFF. EXISTING FINNED TUBE RADIATION SHALL MAINTAIN THE UNOCCUPIED SPACE TEMPERATURE. HILLS SEQUENCE-

THE SUPPLY FAN AND EXHAUST FAN SHALL BE OFF. IF THE SETPONT TEMPERATURE DROPS TWO DEGREES BELOW THE UNOCCUPIED SETPOINT, THE SUPPLY FAN SHALL START AND THE HEATING COIL SHALL OPEN TO 50% POSITION UNTIL THE SPACE TEMPERATURE IS 2 DEGREES ABOVE THE SETPOINT. THE FANS SHALL STOP AND THE HEATING VALVE SHALL CLOSE.



<u>SETPOINTS</u>

OCCUPIED HEATING - 70°F OCCUPIED COOLING - 73°F

UNOCCUPIED HEATING — 63°F

UNOCCUPIED COOLING - 85°F

<u>Freeze Protectio</u> N THE FREEZE STAT SETPOINT SHALL BE 40 DEGF. IF THE FREEZE STAT TRIPS, THE FANS SHALL STOP, THE DAMPERS SHALL MODULATE TO FULL RETURN POSITION AND THE HEATING COIL VALVE SHALL OPEN 50%. AN ALARM SHALL BE SENT.

THE HEATING CONTROL VALVE SHALL MODULATE TO MAINTAIN THE HEATING SETPOINT TEMPERATURE

IF THE OUTDOOR ENTHALY IS LESS THAN THE INDOOR INTHALPY AND THE SPACE TEMPERATURE IS ABOVE THE COOLING

SETPOINT, ECONOMIZER COOLING SHALL BE ENABLED. THE MIXED AIR DAMPERS SHALL USE OUTSIDE AIR TO MAINTAIN THE COOLING SETPOINT. THE EXHAUST FAN SHALL MODULATE IN SYNC WITH THE OUTSIDE AIR DAMPER POSITION TO MAINTAIN SPACE PRESSURE BALANCE.

THE MIXED DAMPERS SHALL BE AT THE MINIMUM OCCUPIED POSITION OR THE POSITION DICTATED BY THE DCV CONTROL, WHICHEVER IS GREATER. THE ACCU SHALL START AND MODULATE TO MAINTAIN THE SPACE TEMPERATURE. THE

MINIMUM SUPPLY AIR TEMPERATURE SHALL BE 50°F. <u>DCV CONTROL</u>

OCCUPIED MODE

THE MIXED AIR DAMPERS SHALL MODULATE TO MAINTAIN A CO2 SETPOINT OF 800 PPM (ADJ). THE MIXED AIR DAMPERS SHALL BEGIN TO MODULATE OPEN WHEN THE INDOOR CO2 LEVEL IS 100 PPM OVER THE OUTDOOR CO2 LEVEL. THE MINIMUM POSITION OF THE OA DAMPER SHALL BE SET BY THE AIR BALANCER TO MAINTAIN THE MINIMUM AIR FLOW

SHOWN ON THE SCHEDULE.

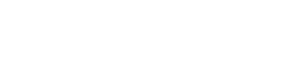
PRE-OCCUPANCY - THERE SHALL BE A 30 MINUTE PRE-OCCUPANCY PURGE WITH THE OUTSIDE DAMPERS SET TO THE MAXIMUM AIR FLOW POSITION SHOWN ON THE SCHEDULE AS SET BY THE AIR BALANCER. POST-OCCUPANCY FLUSH - THE POST-OCCUPANCY FLUSH SHALL OPERATE UNTIL CO2 LEVELS ARE REDUCED TO 450 PPM. DURING POST-OCCUPANCY FLUSH THE DAMPERS SHALL BE IN THE MINIMUM VENTILATION POSITION AS SHOWN ON THE

AHU SCHEDULE. SENSOR FAILURE

IF A CO2 SENSOR FAILS, THE MIXED AIR DAMPERS SHALL OPEN TO THE MAXIMUM POSITION.

COMMISSIONING AND RECORD KEEPING REQUIREMENTS

THE CO2 SENSOR CALIBRATION SHALL BE CHECKED ONE YEAR AFTER INITIAL COMMISSIONING IS COMPLETED. CO2 CONCENTRATION READINGS SHALL BE LOGGED BY THE BMS ON A 15-MINUTE INTERVAL. RECORDS MUST BE KEPT FOR



4 British American Boulevard

CERTIFICATE OF AUTHORIZATION NUMBER: PROFESSIONAL ENGINEERING: 018281

It is a violation of New York Education Law Art. 145 Sec. 7209 & Art. 147 Sec. 7307, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any

way. If an item bearing the seal of an architect, engineer, or land surveyor

is altered; the altering architect, engineer, or land surveyor shall affix to

the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

© 2024 LaBella Associates

**NEWBURGH ENLARGED** 

CITY SCHOOL DISTRICT

124 GRAND ST. - NEWBURGH, NY 12550

LAND SURVEYING: 017976 GEOLOGICAL: 018750

Latham, NY 12110 (518) 273-0055

labellapc.com

**TEMPLE HILL ACADEMY** 525 UNION AVENUE

NEW WINDSOR, NY 12553

NO: DATE: S.E.D. NUMBER: 44-16-00-01-0-036-015 PROJECT NUMBER: 2233600 DRAWN BY: REVIEWED BY:

**MECHANICAL CONTROLS** 

ADDENDUM 2

12/11/2024

DRAWING NAME: