



**ROCKFORD BOARD OF EDUCATION
INVITATION FOR BID ON SUPPLIES, MATERIALS, EQUIPMENT OR SERVICES
FOR SCHOOL DISTRICT NO. 205
ROCKFORD, ILLINOIS**

IFB No. IFB No. 22-24 HVAC Upgrades at Lathrop, Spring Creek and Bloom Schools

DATE: March 16, 2022

RE: ADDENDUM NO. 3

To All Bidders:

Included are modifications, clarifications and/or corrections for the Project Manual and are hereby made a part of the contract documents. Please attach this addendum to the Project Manual(s) in your possession. Please note the receipt of this addendum on the bid form. Bidders shall review changes to all portions of this work as changes to one portion may affect the work of another.

If you plan to hand deliver your IFB submission on the due date, please note you must check in on the 1st floor prior to coming to the bid opening. Please allow time for this as late submission will not be accepted.

Refer all questions relative to the business aspect, Instructions to Bidders, Special Conditions, and questions concerning the technical aspect of the documents to the Director of Purchasing by email at purchasingdeptstaff@rps205.com.

Bidder's failure to submit the completed list may result in disqualification of bid.

ROCKFORD BOARD OF EDUCATION

By: Dane Youngblood
Director of Purchasing

ADDENDUM

Subject : Addendum No. 003
To the Bid Documents For:
RPS IFB number 22-24
Spring Creek, Lathrop, & Bloom Elementary
HVAC Upgrades
Rockford, Illinois

Specifications

1. Section 238223.49 - Self-Contained, Packaged Classroom Units
 - a. Add section 2.08.D to read: "All units with 3-phase power shall include factory mounted phase rotation monitor. This device shall protect scroll compressor from reverse rotation and also protect unit from phase failure. If 3-phase power is incorrectly connected at the field power connections, the phase monitor shall lock out the unit and a red light will illuminate indicating incorrect phase. Also if a power leg is lost, the phase monitor will lockout the unit due to phase imbalance. Once the condition is corrected, turning the power off at the circuit breaker or disconnect will reset the phase monitor.
 - b. Clarification: Hydronic control valves for packaged classroom air conditioning units are to be field provided by temperature controls contractor per specification section 238223-49-2.13.
2. Section 233116 – Nonmetal Ducts
 - a. Add "Nanosox" to the list of approved manufacturers.
3. Section 233600 – Air Terminal Units
 - a. Add "Metalaire" to the list of approved manufacturers.
4. Section 233423 – HVAC Power Ventilators
 - a. Add "ACME", "Soler & Palau", and "Carnes" to the list of approved manufacturers.
5. Section 233713.13 – Air Diffusers
 - a. Add "Metalaire" to the list of approved manufacturers.
6. Section 233713.23 – Registers and Grilles
 - a. Add "Metalaire" to the list of approved manufacturers.
7. Section 233423 – HVAC Power Ventilators
 - a. Add "Soler & Palau" to the list of approved manufacturers.

Drawings

SPRING CREEK ELEMENTARY SCHOOL

1. Drawing A2.01 – First Floor Reflected Ceiling Plan - Area 1 – Base Bid
 - a. Replace entire sheet with “Drawing A2.01 – First Floor Reflected Ceiling Plan - Area 1 – Base Bid” dated 03/15/2022.
2. Drawing A2.02A – First Floor Reflected Ceiling Plan - Area 2 – Base Bid
 - a. Replace entire sheet with “Drawing A2.02A – First Floor Reflected Ceiling Plan - Area 2 – Base Bid” dated 03/15/2022.
3. Drawing A2.02B – First Floor Reflected Ceiling Plan - Area 2 – Alternate Bid
 - a. Replace entire sheet with “Drawing A2.02B – First Floor Reflected Ceiling Plan – Area 2 - Alternate Bid” dated 03/15/2022.
4. Drawing MD112 – First Floor Plan – Mechanical Demolition – Area 2
 - a. Remove existing finned tube radiator and associated branch piping located in vestibule as shown on attached sheet MD112.
 - b. Remove existing thermostat and associated pneumatic tubing located in vestibule as shown on attached sheet MD112.
5. Drawing M112 – First Floor Plan – Mechanical New Work – Area 2
 - a. Furnish and install new cabinet unit heater and associated branch piping located in vestibule as shown on attached sheet M112.
 - b. Furnish and install new DDC temperature sensor and associated wiring for CUH-7 located in vestibule as shown on attached sheet M112.

Clarification: Vestibule renovations will be occurring outside of project scope. Existing finned tube and cabinet unit heater replacement are to coordinate with an adjacent project.
6. Drawing M500 – Mechanical Notes and Schedules
 - a. Cabinet Unit Heater Schedule:
 - i. Added new cabinet unit heater (CUH-7) to cabinet unit heater schedule.
 - ii. Added note to cabinet unit heater schedule to select CUH-7 at medium motor speed.
 - b. Packaged Classroom Air Conditioning Unit Schedule:
 - i. Clarification: unit dimensions listed are maximum allowable dimensions for installation. This includes all accessories and supply air discharge plenums.
7. Drawing E112 – First Floor Plan – Electrical New Work - Area 2
 - a. Furnish and install an electrical connection to new CUH-7 located in vestibule. Coordinate exact location with mechanical contractor prior to rough-in. Route 2#10 & 1#10 Ground in ¾” conduit from the new CUH-7 and connect to a 15-Ampere, 1-Pole circuit breaker in panel PP3, circuit number 68.

BLOOM ELEMENTARY SCHOOL

1. Drawing ED102 – Partial Lower Level and Crawl Space Plan – Electrical Demolition – Area 2
 - a. Demolish lighting in vestibules, showers, and PE office. Refer to sheet for further information
2. Drawing E102 – Partial Lower Level and Crawl Space Plan – Electrical New Work – Area 2
 - a. Furnish and install new lighting in previously removed rooms. Refer to sheet ED102 for further information. Furnish and install new lighting in PE Office and fan room. Refer to sheet for further information
3. Drawing E103 – Partial Lower Level and Crawl Space Plan – Electrical New Work – Area 3
 - a. Furnish and install new lighting and switching in fan room. Fixture types have been corrected to fixture Type F. Refer to sheet for further information
4. Drawing E111 – Partial First Floor Plan – Electrical New Work – Area 2
 - a. Changed light fixtures to Type B. Added switching and power pack for zoned switching. Refer to sheet for further information.
5. Drawing E112 – Partial First Floor Plan – Electrical New Work – Area 2
 - a. Furnish and install AHU accessory circuit for both air handling units. Circuit shall serve air handler lights. Refer to sheet for further information
6. Drawing E201 – Electrical Panel Schedules.
 - a. Updated Panel schedule for (E)EMERG. Refer to sheet further information.
7. Drawing E202 – Electrical Panel Schedules.
 - a. Updated Panel schedule for SN & 5. Refer to sheet further information.
8. Drawing E500 – Electrical Demo Material Schedule & General Notes
 - a. Updated Luminaire Schedule. Refer to sheet for further information Refer to sheet for further information.

Attachments

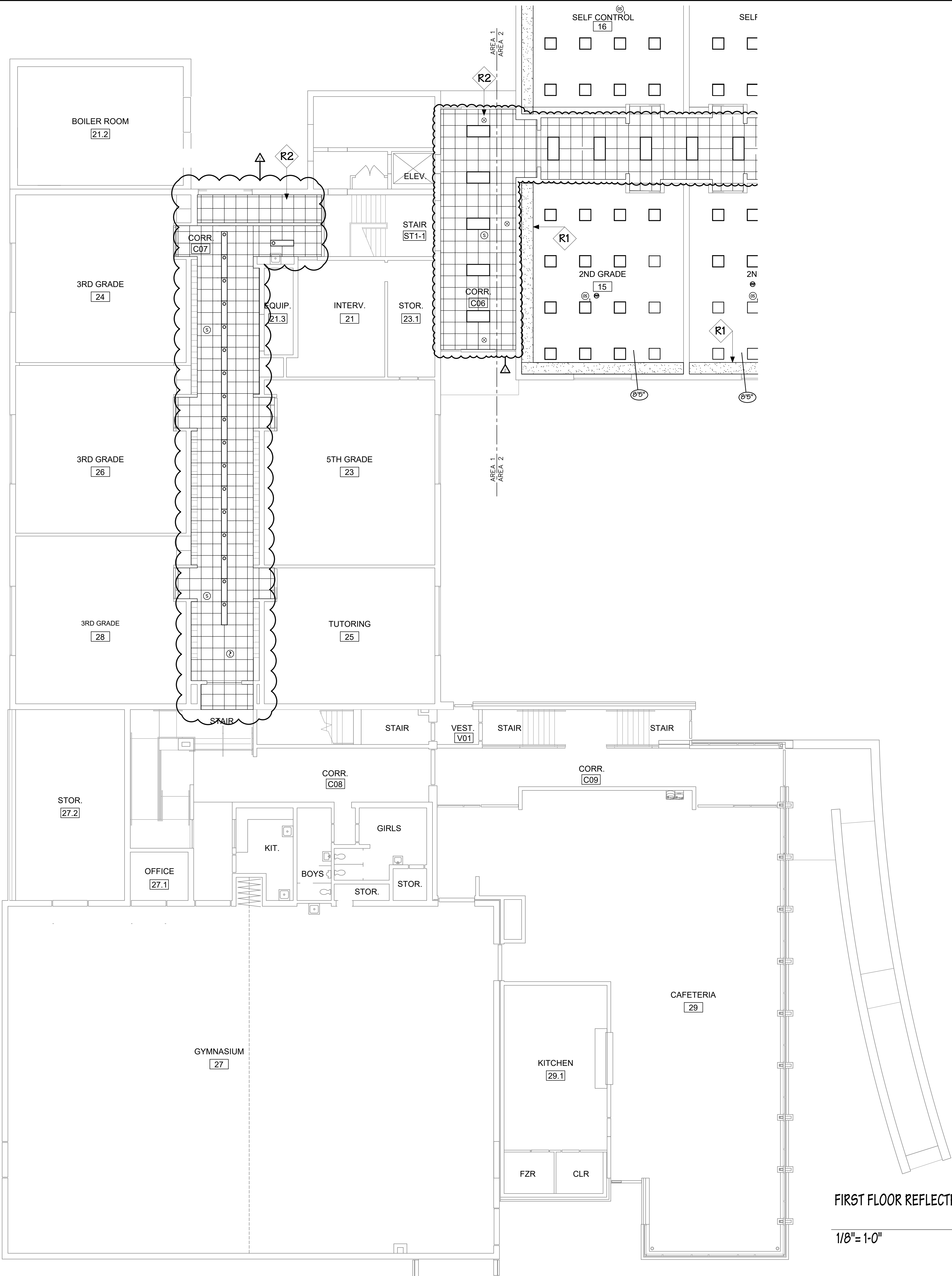
- Drawings:
 - Spring Creek Elementary – A2.01, A2.02A, A2.02B, MD112, M112, M500, E112
 - Bloom Elementary – ED102, E102, E103, E111, E112, E201, E202, E500



Signature

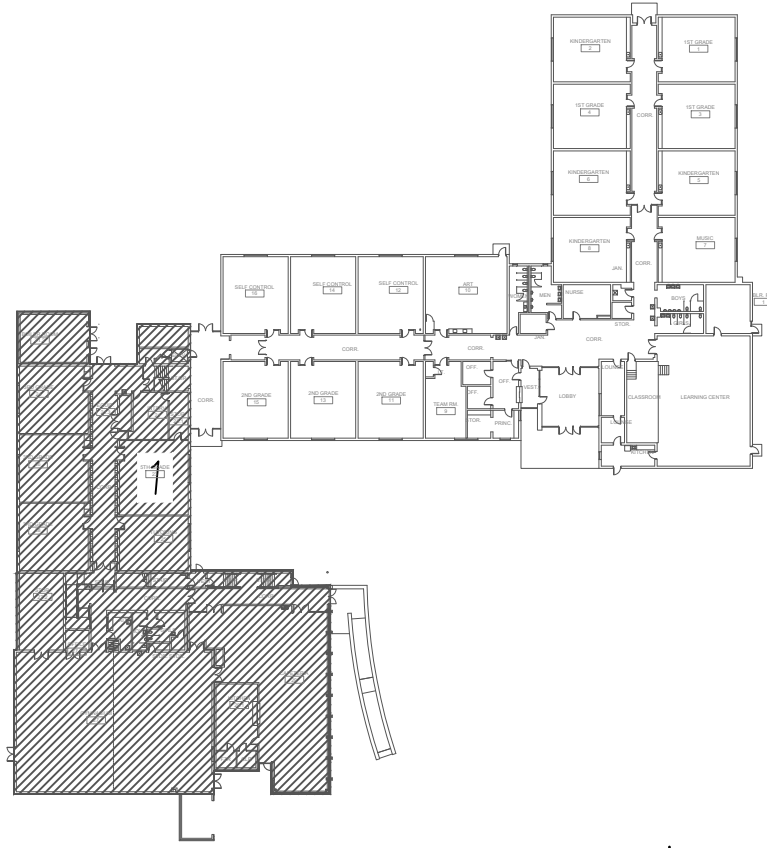
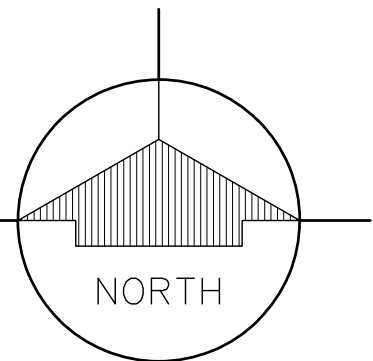
Adam Camp
Mechanical Engineer

Printed Name & Title



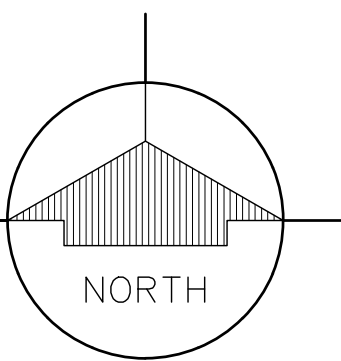
FIRST FLOOR REFLECTED CEILING PLAN - AREA 1-BASE BID

1/8" = 1'-0"



KEY PLAN

NO SCALE



REFLECTED CEILING PLAN KEYNOTES

- R1** PATCH, PREP, AND PAINT CEILING TO MATCH EXISTING ADJACENT SURFACE TO MATCH EXISTING MATERIAL, TEXTURE, AND COLOR.
- R2** REINSTALL SALVAGED ACOUSTICAL CEILING TILES.
- R3** INSTALL NEW ACOUSTICAL CEILING TILES.

REFLECTED CEILING NOTES

- EXPOSED STRUCTURE TO BE PAINTED.
- EXPOSED MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS TO BE PAINTED, UNLESS OTHERWISE NOTED.

CEILING/MEP COORDINATION NOTE:

CONTRACTOR SHALL COORDINATE IN THE FIELD PRIOR TO THE INSTALLATION OF MECHANICAL, ELECTRICAL ITEMS TO MAINTAIN THE MAXIMUM CEILING HEIGHT POSSIBLE. ARCHITECTURE CEILING DRIVE THE LAYOUT OF PIPING MAINS, DUCTWORK, CONDUITS, ETC. SUBMIT COORDINATION PLANS TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

REFLECTED CEILING PLAN LEGEND

	2X2 SUSPENDED ACOUSTIC CEILING
	2X4 LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
	2X2 LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
	8'X48' LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
	RETURN AIR OR EXHAUST GRILLE - SEE MECHANICAL DRAWINGS
	SUPPLY AIR DIFFUSER - SEE MECHANICAL DRAWINGS
	CEILING MOUNTED EXIT SIGN - SEE ELECTRICAL DRAWINGS
	WALL MOUNTED EXIT SIGN - SEE ELECTRICAL DRAWINGS
	FIRE ALARM INDICATOR
	SENSOR SWITCH
	SENSOR SWITCH
	CEILING HEIGHT

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Sheet Title:
FIRST FLOOR
REFLECTED CEILING
PLAN- AREA 1
BASE BID

Proj. No.: 21012.20
Date: 02/18/2022
Drawn: MI
Approved: MS
Sheet No.: A2.01

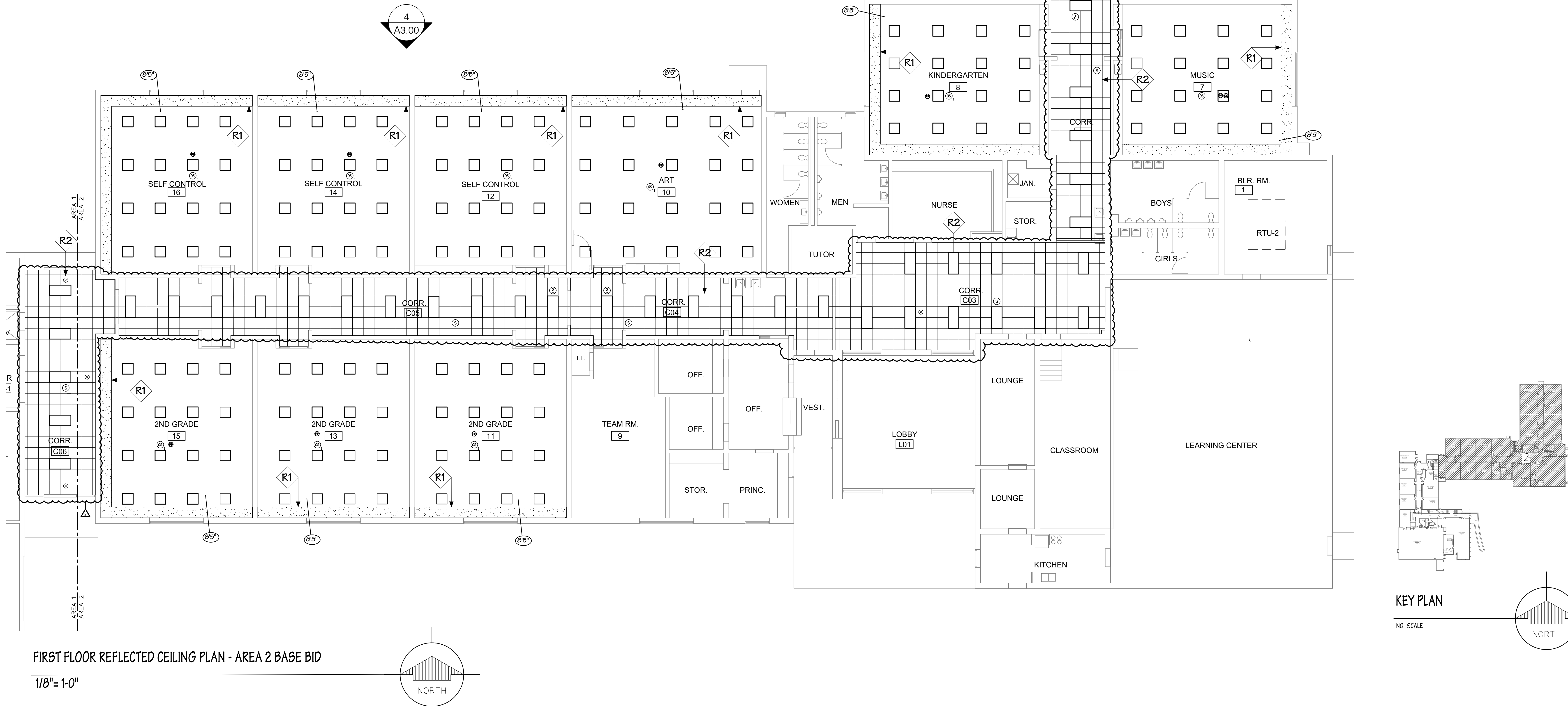
SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

REFLECTED CEILING PLAN KEYNOTES	
R1	PATCH, PREP, AND PAINT CEILING TO MATCH EXISTING ADJACENT SURFACE TO MATCH EXISTING MATERIAL, TEXTURE, AND COLOR.
R2	REINSTALL SALVAGED ACOUSTICAL CEILING TILES.
R3	INSTALL NEW ACOUSTICAL CEILING TILES.

REFLECTED CEILING NOTES
1. EXPOSED STRUCTURE TO BE PAINTED.
2. EXPOSED MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS TO BE PAINTED, UNLESS OTHERWISE NOTED.

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REFLECTED CEILING PLAN LEGEND	
	2X2 SUSPENDED ACOUSTIC CEILING
	2X4 LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
	2X2 LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
	8"X48" LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
	RETURN AIR OR EXHAUST GRILLE - SEE MECHANICAL DRAWINGS
	SUPPLY AIR DIFFUSER - SEE MECHANICAL DRAWINGS
	CEILING MOUNTED EXIT SIGN - SEE ELECTRICAL DRAWINGS
	WALL MOUNTED EXIT SIGN - SEE ELECTRICAL DRAWINGS
	FIRE ALARM INDICATOR
	SENSOR SWITCH
	SENSOR SWITCH
	CEILING HEIGHT



FIRST FLOOR REFLECTED CEILING PLAN - AREA 2 BASE BID

1/8"=1'-0"

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Revisions

No.	Date	Description
1	12/30/2022	Issued for # 2
2	02/18/2022	Issued for # 3

Sheet Title:
FIRST FLOOR
REFLECTED CEILING
PLAN- AREA 2
BASE BID

Proj. No.: 21012.20
Date: 02/18/2022
Drawn: MI
Approved: MS
Sheet No.: A2.02A

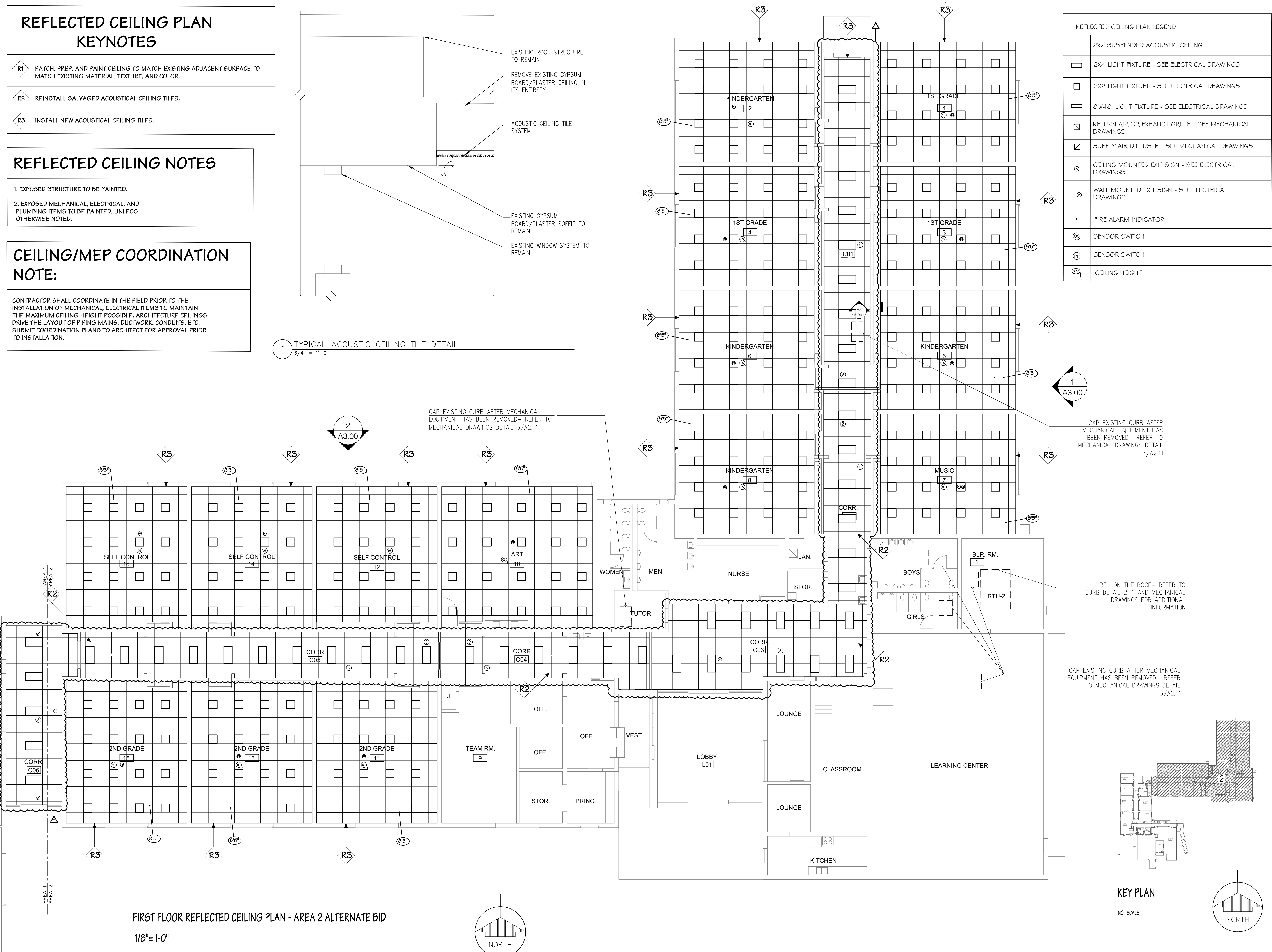
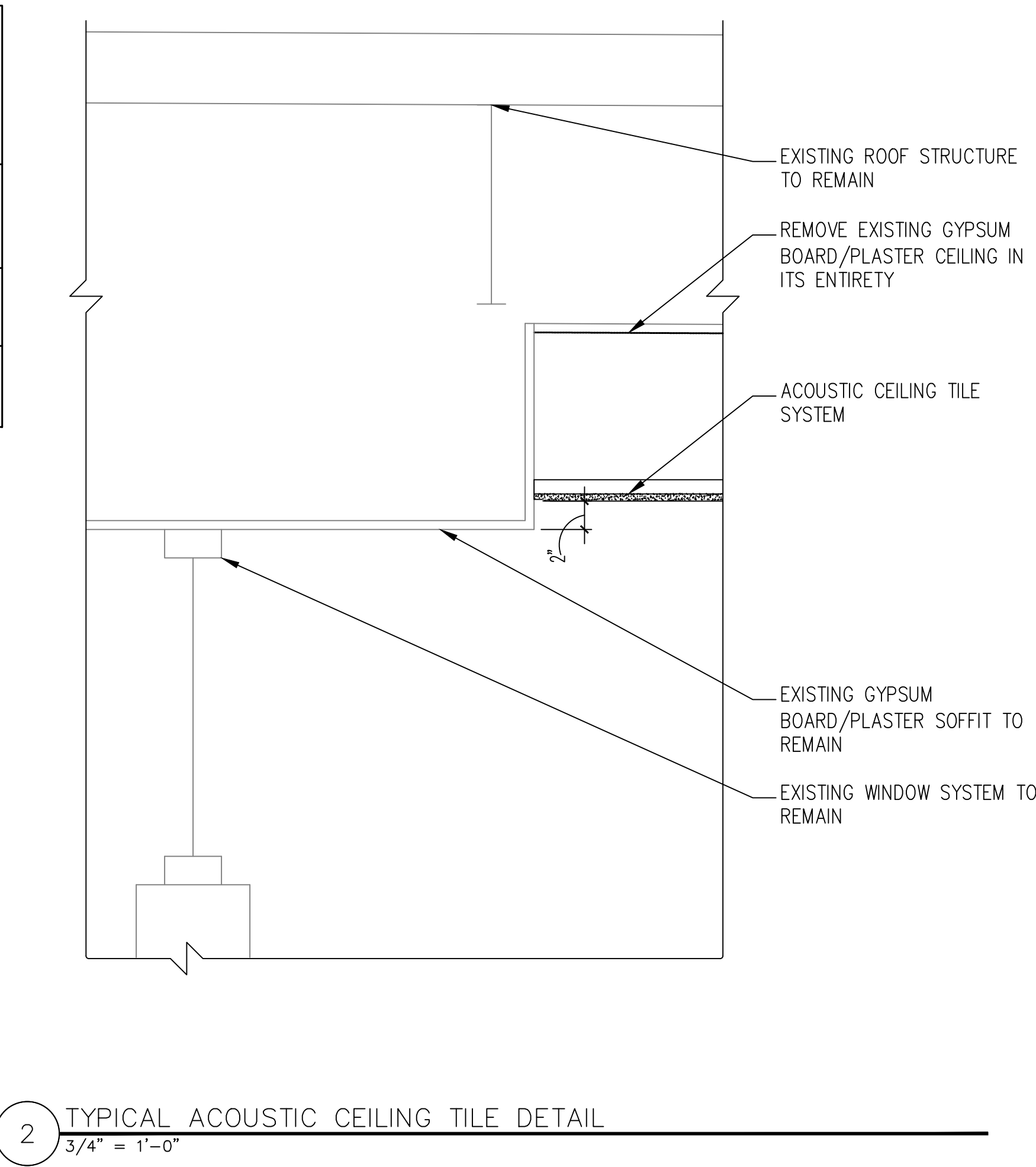
SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

KEY PLAN
NO SCALE
NORTH

REFLECTED CEILING PLAN KEYNOTES	
R1	PATCH, PREP, AND PAINT CEILING TO MATCH EXISTING ADJACENT SURFACE TO MATCH EXISTING MATERIAL, TEXTURE, AND COLOR.
R2	REINSTALL SALVAGED ACOUSTICAL CEILING TILES.
R3	INSTALL NEW ACOUSTICAL CEILING TILES.

REFLECTED CEILING NOTES	
1.	EXPOSED STRUCTURE TO BE PAINTED.
2.	EXPOSED MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS TO BE PAINTED, UNLESS OTHERWISE NOTED.

CEILING/MEP COORDINATION NOTE:	
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REFLECTED CEILING PLAN LEGEND	
	2X2 SUSPENDED ACOUSTIC CEILING
	2X4 LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
	2X2 LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
	8'X48' LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
	RETURN AIR OR EXHAUST GRILLE - SEE MECHANICAL DRAWINGS
	SUPPLY AIR DIFFUSER - SEE MECHANICAL DRAWINGS
	CEILING MOUNTED EXIT SIGN - SEE ELECTRICAL DRAWINGS
	WALL MOUNTED EXIT SIGN - SEE ELECTRICAL DRAWINGS
	FIRE ALARM INDICATOR
	SENSOR SWITCH
	SENSOR SWITCH
	CEILING HEIGHT

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Revisions

No.	Date	Description
1	03/02/2022	Adendum # 2
2	02/13/2022	Adendum # 3

Sheet Title:

FIRST FLOOR
REFLECTED CEILING
PLAN- AREA 2
ALTERNATE BID

Proj. No.: 21012.20

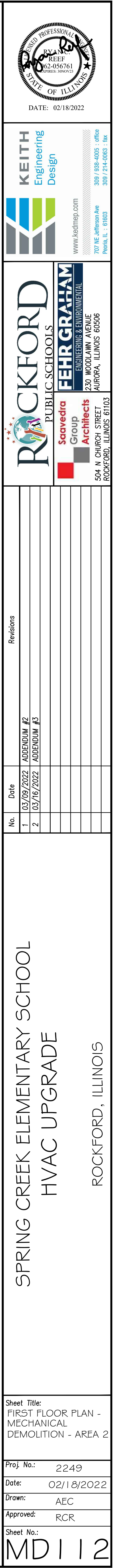
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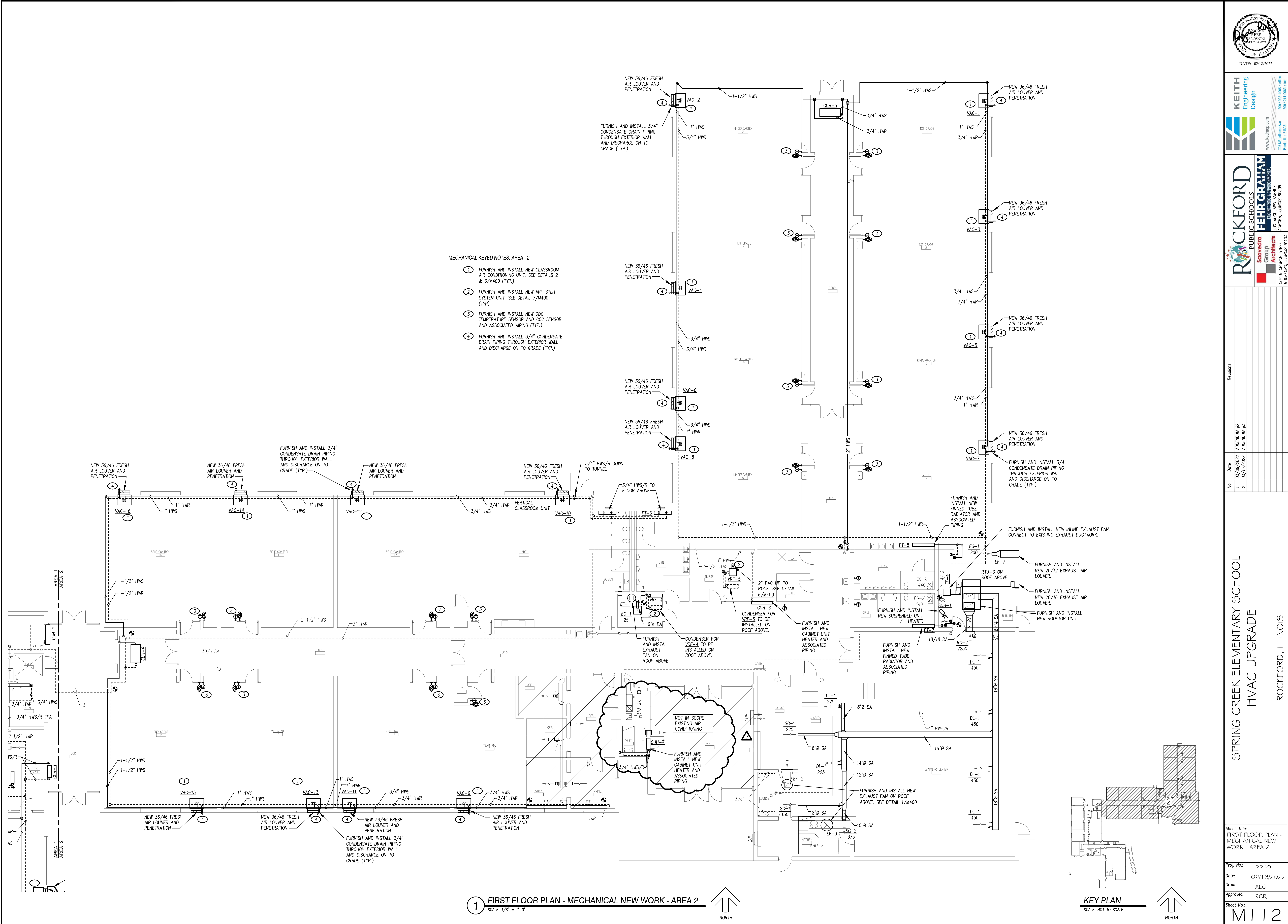
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Approved: MS

Sheet No.: A2.02B

SPRING CREEK ELEMENTARY SCHOOL
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DATE: 02/18/2022

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Revisions

No.	Date	ADDENDUM #1	ADDENDUM #2
1	03/09/2022		
2	03/09/2022		

Sheet Title:

FIRST FLOOR PLAN -
MECHANICAL NEW
WORK - AREA 2

Proj. No.:

2249

Date:

02/18/2022

Drawn:

AEC

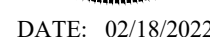
Approved:

RCR

Sheet No.:

M112

- ① EXISTING LIGHTING AND CEILING MOUNTED DEVICES ARE TO BE REMOVED ONLY AS REQUIRED FOR CEILING REMOVAL NECESSARY FOR SPRINKLER SYSTEM INSTALLATION. LIGHTING AND DEVICES SHALL BE REINSTALLED AFTER CEILING AND ABOVE CEILING WORK IS COMPLETE. COORDINATE ALL WORK WITH FIRE PROTECTION CONTRACTOR.
- ② REMOVE EXISTING LUMINAIRES TO ALLOW FOR CEILING DEMOLITION BY OTHER TRADES. DEMOLISH CONDUITS BACK TO ACTIVE SOURCE. CONDUIT SHALL BE REUSED WHERE POSSIBLE.
- ③ REMOVE EXISTING CEILING MOUNTED DEVICES TO ALLOW FOR CEILING DEMOLITION BY OTHER TRADES. PROTECT AND RETAIN DEVICE FOR REINSTALLATION AFTER CEILING WORK IS COMPLETE.



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[illegible]

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Sheet Title:
PARTIAL LOWER LEVEL
AND CRAWL SPACE
PLAN - ELECTRICAL
DEMOLITION - AREA 2

Proj. No.:	2250
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Date: 02/18/2022

Drawn:	MARB
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Approved: BRK

Sheet No.:
FD 102

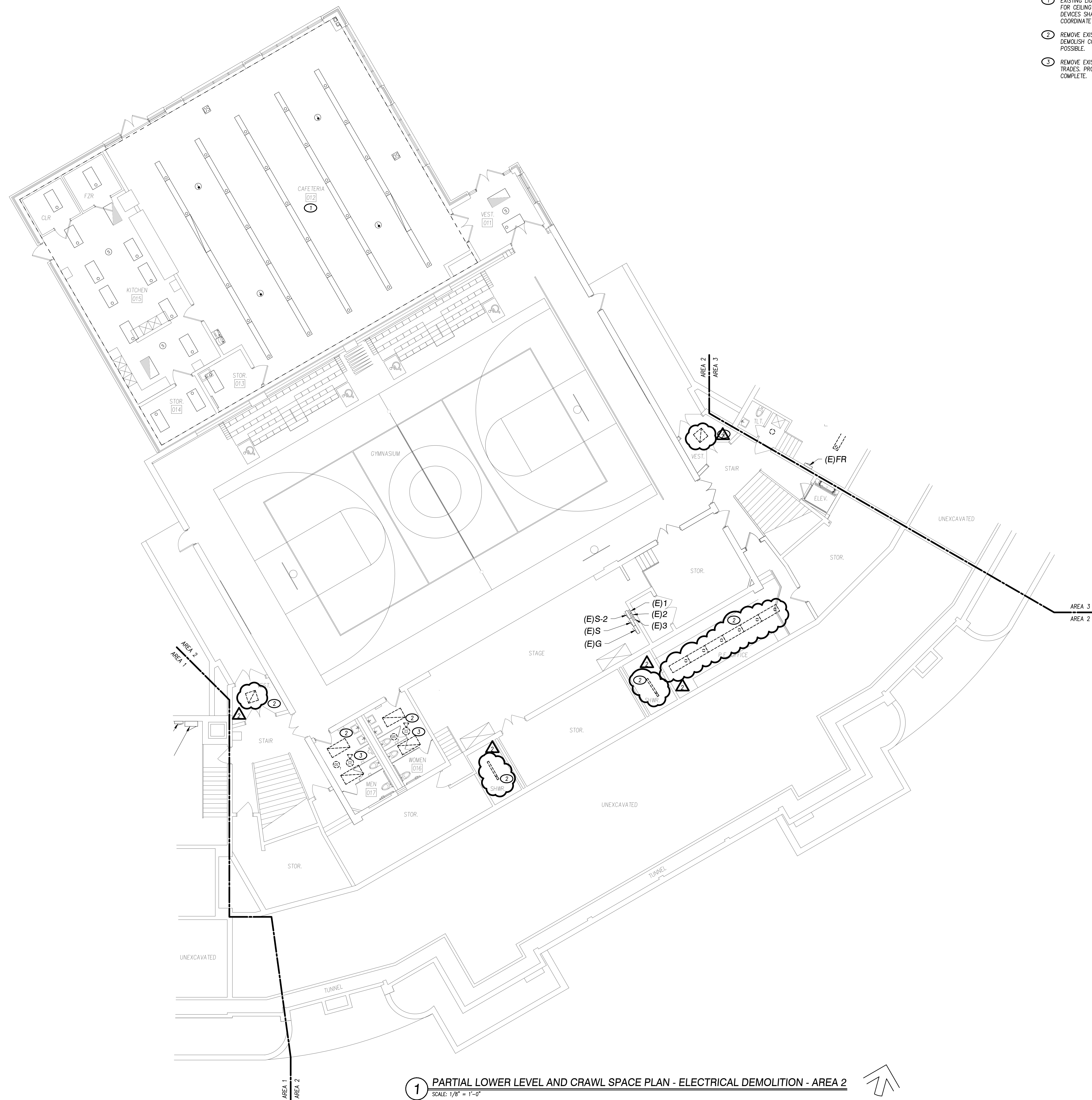
LD 102

NOTE:
NO PROJECT DEMOLITION SHALL OCCUR UNTIL COORDINATION WITH ANY/ALL TRADES WITH AFFECTED DEVICES, EQUIPMENT, WIRING, OR OTHER COMPONENTS HAS BEEN COMPLETED. DEMOLITION WORK THAT CAUSES DAMAGE TO COMPONENTS INTENDED TO REMAIN OR BE REMOVED AND REINSTALLED SHALL BE REPAIRED/REPLACED AT CONTRACTORS' EXPENSE.

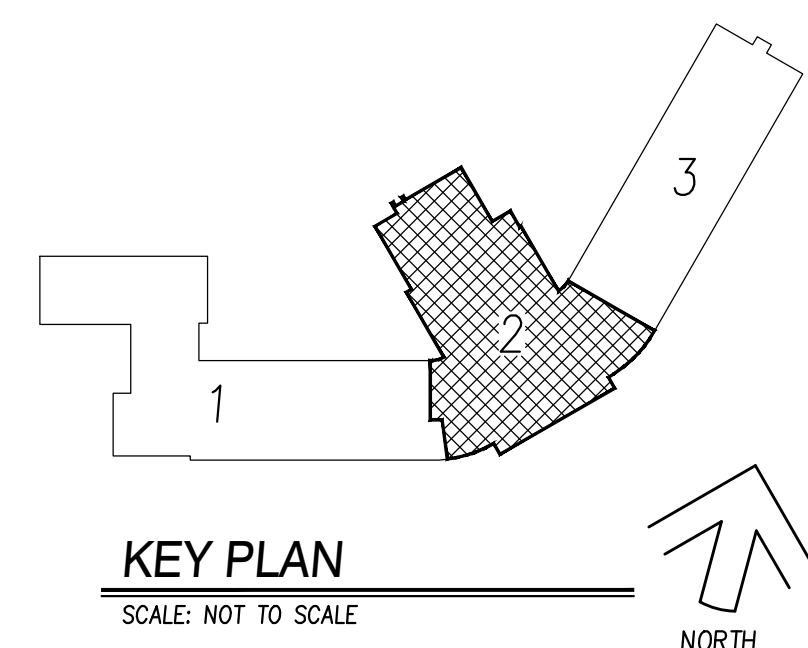
NOTE:
EXISTING SYSTEM DEVICES ARE SHOWN TO AID CONTRACTOR IN DETERMINING THE SCOPE OF DEMOLITION. REMOVAL OF EXISTING DEVICES/COMPONENTS SHALL INCLUDE REMOVAL OF ASSOCIATED SURFACE BOXES, SURFACE WIREWAY, SURFACE CONDUIT, AND ALL ASSOCIATED SUPPORTS THAT ARE NOT RETAINED FOR ROUTING OF NEW SYSTEM CABLING.

NOTE:
ALL NETWORK, SECURITY SYSTEM, AND FIRE ALARM SYSTEM CABLEING SHALL BE DISCONNECTED AND PULLED BACK TO AN ACCESSIBLE POINT AS REQUIRED FOR NEW ROUTING. LINE VOLTAGE AND COAXIAL CABLEING MAY BE SPLICED. ALL LINE VOLTAGE CONDUCTOR SPLICES SHALL BE IN JUNCTION BOXES.

NOTE:
THE ELECTRICAL CONTRACTOR SHALL INCLUDE ALL LABOR AND MATERIALS IN BID PROPOSAL TO PATCH AND PAINT EXISTING WALLS TO MATCH EXISTING CONDITIONS, WHERE SURFACE/RECESSED ELECTRICAL EQUIPMENT AND RACEWAY SYSTEMS HAVE BEEN REMOVED.



1 PARTIAL LOWER LEVEL AND CRAWL SPACE PLAN - ELECTRICAL DEMOLITION - AREA 2
SCALE: 1/8" = 1'-0"



1 RECONNECT NEW LIGHTING TO EXISTING EXISTING BREAKER FROM PREVIOUSLY REMOVED LIGHTING CIRCUIT. FURNISH AND INSTALL NEW CONDUIT, CONDUCTORS, AND ASSOCIATED SUPPORTS.

[illegible]

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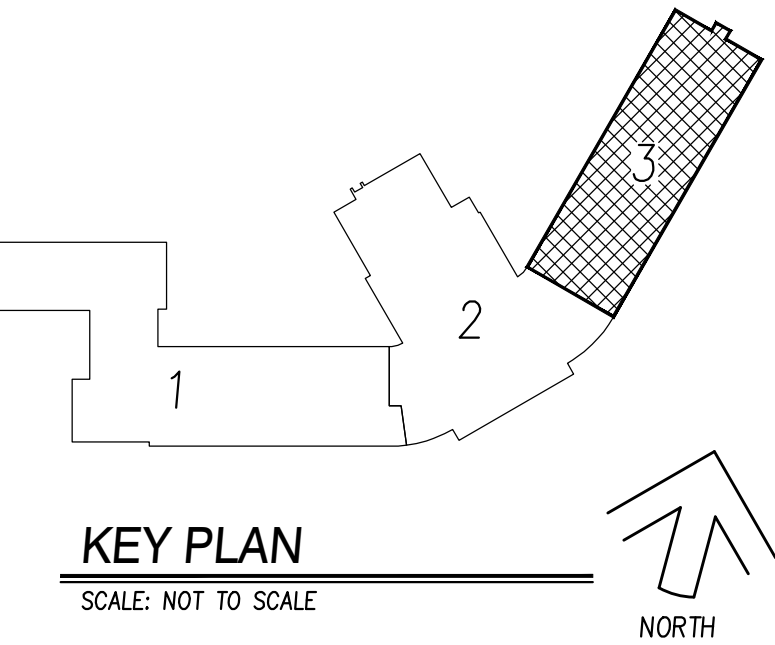
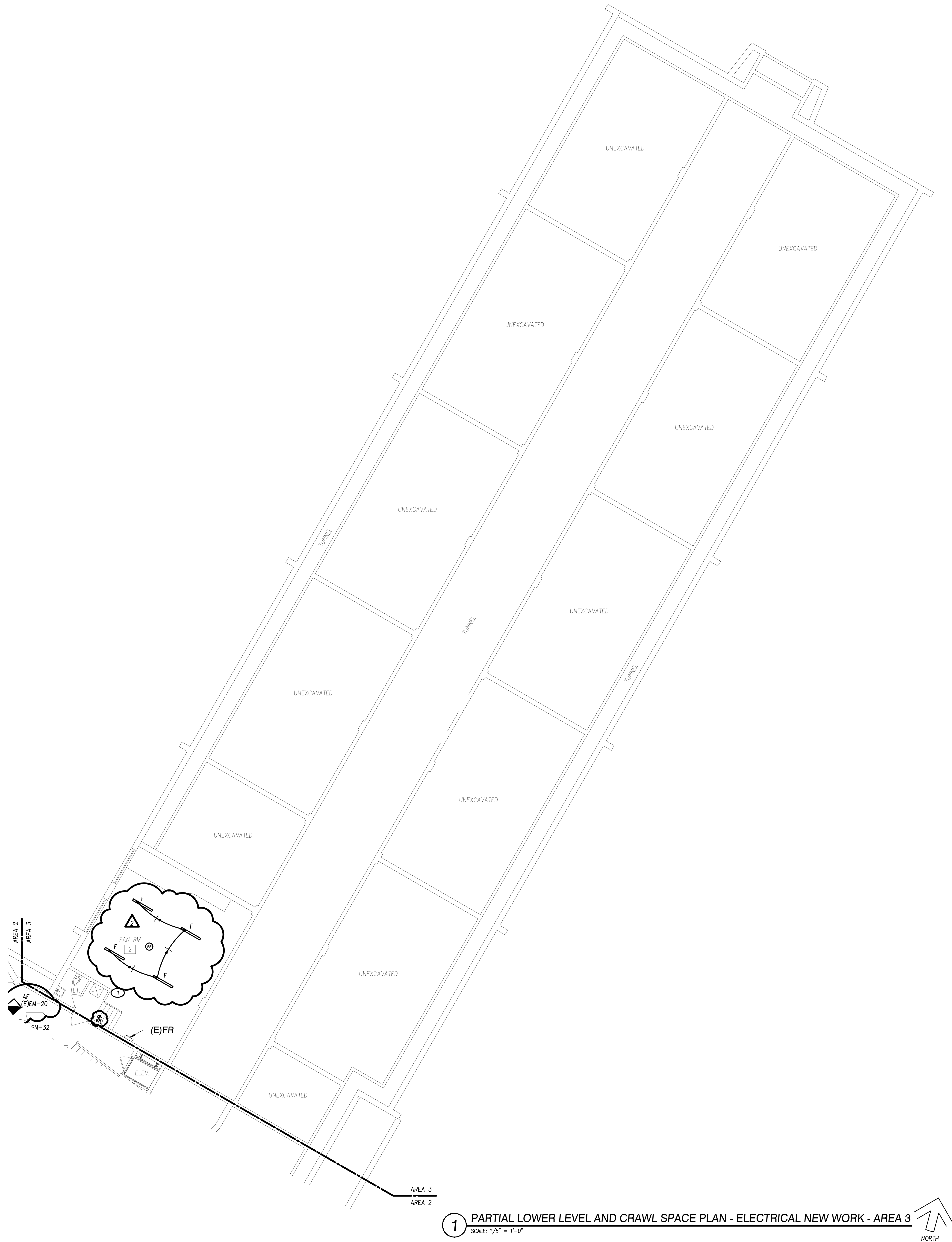
et Title:
PARTIAL LOWER LEVEL
AND CRAWL SPACE
AN - ELECTRICAL
EW WORK - AREA 3

File No.:	2250
Date:	02/18/2022
Owner:	MARB
Approved:	BRK
Sheet No.:	E103

NOTE:

WORKING SPACE SHALL BE REQUIRED FOR ALL ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO SWITCHGEARS, PANELBOARDS, VARIABLE FREQUENCY DRIVES, DISCONNECT SWITCHES OR OTHER ENCLOSED EQUIPMENT. ALL ELECTRICAL INSTALLATIONS SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE. THIS SHALL BE COORDINATE WITH ALL TRADES, RELOCATION OF ANY MATERIALS NOT COMPLIANCE WILL BE AT THE CONTRACTOR'S EXPENSE:

1. THE DEPTH OF THE WORKING SPACE SHALL NOT BE LESSER THAN 3'-0" BEYOND THE FRONT OF THE EQUIPMENT. THE DEPTH OF THE SPACE SHALL BE EXTENDING FROM THE FLOOR TO THE HEIGHT OF THE TOP OF THE EQUIPMENT BUT NOT LESS THAN 6'-0". THE WIDTH SHALL BE EQUAL TO THE WIDTH OF THE EQUIPMENT BUT NOT LESS THAN 30".
2. THE SPACE DIRECTLY ABOVE AND BELOW THE EQUIPMENT SHALL BE DEDICATED TO ELECTRICAL SYSTEMS ONLY. THE SPACE SHALL BE EQUAL TO WIDTH AND DEPTH OF THE EQUIPMENT EXTENDING FROM THE FLOOR TO THE STRUCTURE, NO PIPING, DUCTS OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN AREA.



④ MOTOR STARTER FOR ROOF MOUNTED EXHAUST FAN.



BLOOM ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

NOTE:
CONNECT ALL EXIT AND EMERGENCY LUMINAIRES TO AN UNSWITCHED PORTION OF LOCAL EMERGENCY LIGHTING CIRCUIT. (TYPICAL)

NOTE:
ALL HOME RUN BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #10AWG.

NOTE:
ALL NEW ELECTRICAL EQUIPMENT SHALL CONSIST OF COMPLETELY NEW MATERIALS. EXISTING RACEWAY SYSTEMS AND CONDUCTORS ARE NOT PERMITTED FOR REUSE.

NOTE:
THE SCHOOL BUILDING IS SURROUNDED BY AN EXISTING LAWN/LANDSCAPE. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT OR OTHERWISE REMOVE AND REPLANT/REPAIR ALL LAWN, SHRUBS, FLOWERS OR OTHER PLANTINGS. PROVIDE PHOTOGRAPHIC DOCUMENTATION OF EXISTING CONDITIONS OF PLANTS PRIOR TO PROJECT START.

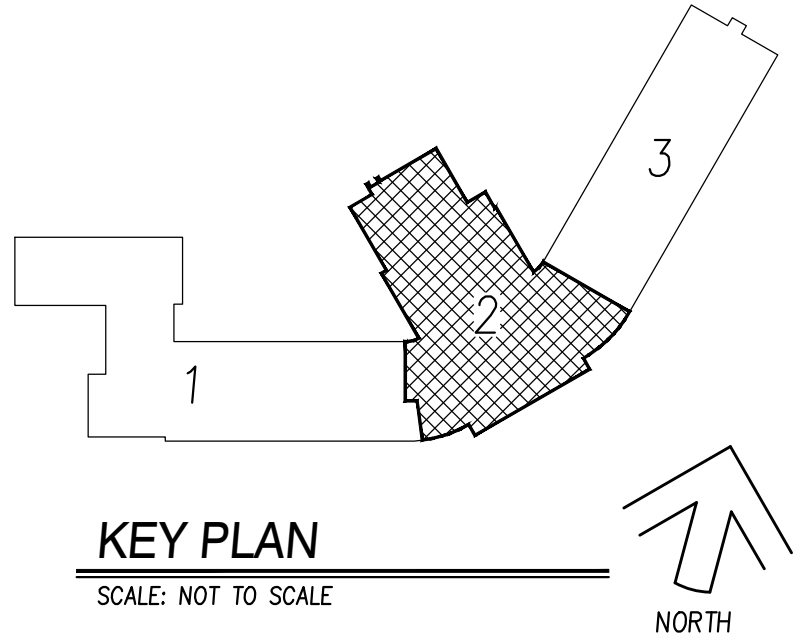
NOTE:
WORKING SPACE SHALL BE REQUIRED FOR ALL ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO SWITCHGEARS, PANELBOARDS, VARIABLE FREQUENCY DRIVES, DISCONNECT SWITCHES OR OTHER ENCLOSED EQUIPMENT. ALL INSTALLATIONS SHALL COMPLY WITH ARTICLE 110 OF THE NATIONAL ELECTRICAL CODE. THIS SHALL BE COORDINATED WITH ALL TRADES. RELOCATION OF ANY MATERIALS NOT IN COMPLIANCE WILL BE AT THE CONTRACTOR'S EXPENSE.

1. THE DEPTH OF THE WORKING SPACE SHALL NOT BE LESS THAN 3'-0" BEYOND THE FRONT OF THE ELECTRICAL EQUIPMENT. IT SHALL BE CLEAR, EXTENDING FROM THE FLOOR TO THE HEIGHT OF THE TOP OF THE EQUIPMENT BUT NOT LESS THAN 6'-6". THE WIDTH SHALL BE EQUAL TO THE WIDTH OF THE EQUIPMENT BUT NOT LESS THAN 30".

2. THE SPACE DIRECTLY ABOVE AND BELOW THE EQUIPMENT SHALL BE DEDICATED TO ELECTRICAL SYSTEMS ONLY. THE SPACE SHALL BE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT EXTENDING FROM THE FLOOR TO THE STRUCTURE. NO PIPING, DUCTS OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THIS AREA.



1 PARTIAL FIRST FLOOR PLAN - ELECTRICAL NEW WORK - AREA 2
SCALE: 1/8" = 1'-0"



- KEYED ELECTRICAL NOTES (THIS SHEET):
- 1 REINSTALL PREVIOUSLY REMOVED CEILING MOUNTED DEVICE. COORDINATE ALL WORK WITH OTHER TRADES.
 - 2 RECONNECT NEW LIGHTING TO BREAKER SERVING PREVIOUSLY REMOVED LIGHTING CIRCUIT. FURNISH AND INSTALL NEW CONDUIT, CONDUCTORS, AND ASSOCIATED SUPPORTS.
 - 3 PROVIDE FIRE ALARM SYSTEM ADDRESSABLE RELAY FOR AHU FAN SHUTDOWN SIGNAL UPON ACTIVATION OF ASSOCIATED DUCT SMOKE DETECTORS.

Professional Engineer
State of Illinois
No. 022-050366
Date: 02/18/2022

KEITH
Engineering
Design

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No.	Date	Revisions
1	03/07/2022	ADDendum #2
2	03/09/2022	ADDendum #3

BLOOM ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title:
PARTIAL FIRST
FLOOR PLAN -
ELECTRICAL NEW
WORK - AREA 2

Proj. No.: 2250

Date: 02/18/2022

Drawn: MARB

Approved: BRK

Sheet No.: E112

