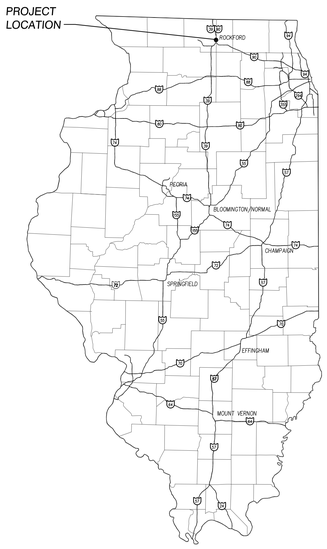
SPRING CREEK ELEMENTARY HVAC UPGRADE
ROCKFORD PUBLIC SCHOOLS

ROCKFORD, ILLINOIS
RPS PROJECT NUMBER: 2249
IFB NUMBER: 23-12



1 PROJECT LOCATION MAP
SCALE: N.T.S.

NORTH

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2 SPRING CREEK ELEMENTARY SCHOOL SITE PLAN
SCALE: N.T.S.

NORTH

REIF
062-0167614
REGISTERED
STATE OF ILLINOIS
PROFESSIONAL ENGINEER
DATE: 7/15/2022

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No.	Date	Revisions

SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title:
COVER SHEET

Proj. No.:	2249
Date:	7/15/2022
Drawn:	LSM
Approved:	RCR
Sheet No.:	G100

ABBREVIATIONS

Abbreviation	Meaning
AC	AIR CONDITIONING
AC/FL	ACCESS FLOOR
ACP	ACOUSTICAL CEILING PANEL
AD	AREA DRAIN
ADJ.	ADJUSTABLE
AFF	ABOVE FINSHED FLOOR
AL./ALUM.	ALUMINUM
ALT.	ALTERNATE
ANOD.	ANODIZED
ANT.	ANTENNA
APPD.	APPROVED
ARCH.	ARCHITECT
ARCH'L	ARCHITECTURAL
B.M.	BENCH MARK
BETW.	BETWEEN
BIT.	BITUMINOUS
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
BOT.	BOTTOM
BRG.	BEARING
BSMT.	BASEMENT
C.G.	CORNER GUARD
C.T.	CERAMIC TILE
CAB.	CABINET
CFCI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED
CFMF	COLD FORMED METAL FRAMING
CL	CENTER LINE
CLG.	CEILING
CLO.	CLOSET
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONST.	CONSTRUCTION
CORR.	CORRIDOR
CPT./CP	CARPET
DBL.	DOUBLE
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DN	DOWN
DR.	DOOR
DS	DOWNSPOUT
DWG.	DRAWING
EA.	EACH
EL.	ELEVATION
ELEC.	ELECTRIC(AL)
ELEV.	ELEVATOR
EMER.	EMERGENCY
ENCL.	ENCLOSED
ENG.	ENGINEER
.	EQUAL
ESC.	EQUIPMENT
EWC	ESCALATOR
EX	ELECTRIC WATER COOLER
EXH.	EXISTING
EXIST.	EXHAUST
EXP.	EXISTING
EXT.	EXPANSION OR EXPOSED EXTERIOR
FD	FLOOR DRAIN
FDVC	FIRE DEPARTMENT VALVE CABINET
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FEVC	FIRE EXTINGUISHER AND VALVE CABINET
FHC	FIRE HOSE CABINET
FIN.	FINISH(ED)
FLG.	FLASHING
FLR.	FLOOR
FRT	FIRE RETARDANT TREATED
FUT.	FUTURE
FVC	FIRE VALVE CABINET
GA.	GAUGE
GALV.	GALVANIZED
GB	GRAB BAR
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRP	GLASS FIBER REINFORCED PLASTER
GL.	GLASS, GLAZING
GYP.BD./GB	GYPSUM WALL BOARD
H.C.	HOLLOW CORE
H.M.	HOLLOW METAL
H.P.	HIGH POINT
HD	HEAD
HDWR.	HARDWARE
HDWD.	HARDWOOD
HORIZ.	HORIZONTAL
HT.	HEIGHT
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
INCL.	INCLUDE (ED) (ING)
INFO.	INFORMATION
INSUL.	INSULATION
INT.	INTERIOR
J.C.	JANITOR'S CLOSET
JB.	JAMB
JT.	JOINT
L.P.	LOW POINT
LAM.	LAMINATE
LAV.	LAVATORY
LH	LEFT HAND
LT.	LIGHT
LVR.	LOUVER
M.O.	MASONRY OPENING
MACH.	MACHINE
MAX.	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH.	MECHANICAL
MED.	MEDIUM
MEZZ.	MEZZANINE
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTD.	MOUNTED
MTG.	MOUNTING
MTL.	METAL
MULL.	MULLION
MWK.	MILLWORK
NIC	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
O.C.	ON CENTER
OA	OVERALL
OH	OVERHEAD
OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED/ OWNER INSTALLED
OFF.	OFFICE
OPG.	OPENING
OPP.	OPPOSITE
ORN.	ORNAMENTAL
P.C.	PRECAST CONCRETE
P.LAM.	PLASTIC LAMINATE
PERF.	PERFORATED
PH.	PHASE
PL.	PLATE
PLAS.	PLASTIC
PLBG.	PLUMBING
PLYWD.	PLYWOOD
PNL.	PANEL
PKG.	PARKING
PPT	PRESERVATIVE PRESSURE TREATED
PR.	PAIR
PROT.	PROTECTION
PT.	PAINT
PTD.	PAINTED
PTN.	PARTITION
PVMT.	PAVEMENT
Q.T.	QUARRY TILE
QTY.	QUANTITY
R/RAD.	RADIUS
R.B.	RESILIENT BASE
R.O.	ROUGH OPENING
R.T.	RUBBER TILE
RD	ROOF DRAIN
REF.	REFERENCE
REINF.	REINFORCED
REM'D	REMOVED
REQ'D	REQUIRED
RES.	RESILIENT
REV.	REVISION OR REVISED
RF.	ROOF
RFG.	ROOFING
RH	RIGHT HAND
RM.	ROOM
S&BR	SEALANT AND BACKER ROD
SCWD	SOLID CORE WOOD
S.S.	STAINLESS STEEL
SHT.	SHEET
SIM.	SIMILAR
ST.	STAIN
STD.	STANDARD
STL.	STEEL
STO.	STORAGE
SUSP.	SUSPENDED
T/	TOP OF
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TEL.	TELEPHONE
TEMP.	TEMPORARY
TERR.	TERRAZZO
THK.	THICK
TYP.	TYPICAL
U.L.	UNDERWRITERS LABORATORY
U.N.O.	UNLESS NOTED OTHERWISE
V.B.	VINYL BASE
V.C.T.	VINYL COMPOSITE TILE
VAP.BAR.	VAPOR BARRIER
VERT.	VERTICAL
VEST.	VESTIBULE
VIF	VERIFY IN FIELD
VWC	VINYL WALL COVERING
W/	WITH
W/O	WITHOUT
WD.	WOOD
WP	WATERPROOFING

SYMBOL LEGEND

ITEM	SYMBOL
DRAWING TITLE	0 TITLE SCALE
ROOM NAME AND NUMBER	ROOM NAME 101 000 SF — ROOM NUMBER, ROOM SF
DOOR NUMBER	101
WALL TYPE	00
WINDOW NUMBER / CURTAIN PANEL	00 (OR) 00
CEILING ELEVATION	00'-00"
KEYNOTE (Sheet Note)	0 / 00
SPOT ELEVATION	0'-0"
EQUIPMENT NUMBER	00
AREA NAME	Department Name 000 SF — AREA SF
NORTH ARROW	N
REVISION	1
BUILDING SECTION	1 A101 SIM
WALL SECTION	1 A101 SIM
DETAIL	1 A101 SIM
DETAIL	1 A101 SIM
ELEVATION	Name Elevation
EXISTING COLUMN LINE	00
COLUMN LINE	00
FLOOR FINISH	T-1
BASE FINISH	B-1
WALL FINISH	P-1
WOOD STAIN	ST-1
WALL PAINT FINISH	PT-1

ACCESSIBILITY COMPLIANCE STATMENT

PROJECT INFORMATION

PROJECT: SPRING CREEK ELEMENTARY SCHOOL

PROJECT ADDRESS: 5222 SPRING CREEK RD.

ROCKFORD (CITY) ILLINOIS (STATE) 61114 (ZIP CODE)

STATEMENT OF COMPLIANCE

I HAVE PREPARED, OR CAUSED TO BE PREPARED UNDER MY DIRECT SUPERVISION, THE ATTACHED PLANS AND SPECIFICATIONS AND STATE THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF AND TO THE EXTENT OF MY CONTRACTUAL OBLIGATION, THEY ARE IN COMPLIANCE WITH THE ENVIRONMENTAL BARRIERS ACT [410 ILCS 25] AND THE ILLINOIS ACCESSIBILITY CODE (71 III. ADM. CODE 400).

STATE OF ILLINOIS DANIEL G. SAAVEDRA 001-015740 LICENSED ARCHITECT

SIGNED: [signature]
ARCHITECT / ENGINEER

ILLINOIS REGISTRATION NO.: 001-015740

DATE: 12/23/2021

LINETYPE LEGEND

- PROPERTY LINE
- DEMOLITION
- EXISTING
- NEW
- FIRE BARRIER 1 HOUR
- FIRE BARRIER 2 HOUR

ARCHITECTURAL SEAL

STATE OF ILLINOIS DANIEL G. SAAVEDRA 001-015740 LICENSED ARCHITECT

LICENSE: 001-015740
DATE: 12/23/2021
EXPIRATION DATE: 11.30.2022

THIS SEAL APPLIES TO ALL G,D, AND A SHEETS.

ENERGY CODE COMPLIANCE STATEMENT

I hereby certify that I am a Licensed Architect in the State of Illinois and I also certify that to the best of my knowledge and belief that the plans for SPRING CREEK ELEMENTARY SCHOOL fully comply with the following sections of the 2018 International Energy Conservation Code and State of Illinois amendments.

IECC - Commercial Provisions
Chapter 1 (CE) - Scope and Administration
Chapter 2 (CE) - Definitions
Chapter 3 (CE) - General Requirements
Chapter 4 (CE) - Commercial Energy Efficiency
Chapter 5 (CE) - Existing Buildings
Chapter 6 (CE) - Referenced Standards
State of Illinois Amendments to C101.1, C101.1.2, C101.1.3,
C101.5, C102.1.1, C109.1, C109.3, C402.2.2, C402.5.1, C402.5.1.1 and C503.1

In accordance with Illinois Amendment to C101.5, US DOE COMcheck Energy Code Compliance Certificates have been submitted to the AHJ (Authority Having Jurisdiction) along with all associated supporting documentation. In accordance with IECC Section 103.2, Insulation materials and R-values, Fenestration U-factors and SHGC's, area weighted U-factors and SHGC calculations, mechanical system design criteria, mechanical system and service hot water system equipment types, sizes and efficiencies, economizer description, equipment and system controls, fan motor horsepower and controls, duct sealing, duct and pipe insulation and location, lighting and fixture schedules with wattage and control system, air sealing details and system commissioning requirements area detailed, described and specified in the construction documents (Drawings and Project Manual) and the COMcheck Compliance Certificate including attached supporting documentation and calculations.

STATE OF ILLINOIS DANIEL G. SAAVEDRA 001-015740 LICENSED ARCHITECT

SIGNATURE	12/23/2021 DATE
001-015740 LICENSE No.	11/30/2022 EXPIRATION DATE

GENERAL DEMOLITION NOTES

1. PERFORM DEMOLITION WORK AS NECESSARY TO ACCOMPLISH THE WORK INCLUDING THE REMOVAL AND PROPER DISPOSAL OF ITEMS WHICH ARE EXPOSED AND NOT TO REMAIN IN USE, INCLUDING BUT NOT NECESSARILY LIMITED TO ELECTRICAL ITEMS, ELECTRICAL DEVICES, MECHANICAL ITEMS, PLUMBING ITEMS, ETC.
2. DRAWINGS INDICATE THE GENERAL INTENT OF THE DEMOLITION WORK AND ARE FOR REFERENCE PURPOSES ONLY. THEY ARE NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS TO BE DEMOLISHED.
3. EXACT EXTENT OF DEMOLITION AS SHOWN ON DRAWINGS AND TO BE PERFORMED SHALL BE VERIFIED AT THE SITE. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE DRAWINGS WITH EXISTING SITE CONDITIONS. OPERATIONS SHALL BE DONE IN A CAREFUL AND ORDERLY MANNER TO AVOID HAZARDS TO PERSONS AND PROPERTY, AND INTERFERENCE WITH THE USE OF ADJACENT AREAS, AND INTERRUPTION OF FREE PASSAGE TO AND FROM SUCH AREAS.
4. CONTRACTOR TO PERFORM REQUIRED DEMOLITION AND TO LAWFULLY AND PROPERLY DISPOSE OF DEMOLISHED MATERIAL, OTHER OBSTACLES, DEBRIS, AND MATERIALS INCIDENTAL TO THE WORK FROM THE SITE.
5. CONTRACTOR TO TAKE SPECIAL PRECAUTIONS TO ENSURE EXISTING CONSTRUCTION TO REMAIN IS NOT DAMAGED DURING DEMOLITION. IF ANY ITEM INDICATED TO BE REMOVED, STORED AND/OR REINSTALLED IS DAMAGED DURING THE DEMOLITIONS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE THE ITEM TO ITS PRE-DEMOLITION CONDITION. IF ANY ITEM SCHEDULED FOR DEMOLITION WAS DAMAGED PRIOR TO DEMOLITION, THE CONTRACTOR SHALL NOTIFY THE OWNER BEFORE PERFORMING THE DEMOLITION WORK.
6. WHETHER OR NOT SPECIFICALLY INDICATED, THE CONTRACTOR SHALL RELOCATE EXISTING MECHANICAL, ELECTRICAL AND PLUMBING DEVICES AS REQUIRED INCLUDING BUT NOT LIMITED TO REROUTING CONDUITS, WIRING, PIPING, ETC. TO ACCOMMODATE THE WORK. PROVIDE NEW DEVICES INCLUDING BUT NOT LIMITED TO CONDUITS, WIRING, PIPING, ETC AS REQUIRED TO MAINTAIN CONTINUITY OF EXISTING SYSTEMS.

GENERAL NOTES

1. EACH BIDDER SHALL VISIT THE SITE OF PROPOSED WORK AND FULLY ACQUAINT THEMSELVES WITH CONDITIONS RELATING TO CONSTRUCTION AND LABOR SO THAT THEY MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES, AND RESTRICTIONS AFFECTING THE COMPLETION OF WORK INCLUDED UNDER THE CONTRACT.
2. FIELD VERIFY AND COORDINATE ITEMS, DIMENSIONS, CONDITIONS, AND QUANTITIES, ETC. NOTIFY ARCHITECT OF ANY APPARENT DISCREPANCIES.
3. MAINTAIN REQUIRED EXITS FROM THE EXISTING BUILDING AND SITE ACCESS THROUGH SUBSTANTIAL COMPLETION.
4. ITEMS NOTED AS EXISTING ARE TO REMAIN, UNLESS OTHERWISE NOTED.
5. VERIFY WITH OWNER ITEMS TO BE SALVAGED AND RETURNED TO OWNER, INCLUDING BUT NOT NECESSARILY LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING, ETC. ITEMS TO BE SALVAGED SHALL BE CAREFULLY REMOVED AS TO ALLOW FOR OWNER'S REUSE.
6. EXISTING LOOSE ITEMS INCLUDING FURNITURE , EQUIPMENT, AND SUPPLIES SHALL BE REMOVED BY OWNER AS NECESSARY. COORDINATE MOVING SCHEDULE WITH OWNER FOR LOOSE ITEMS TO BE REMOVED BY OWNER PRIOR TO START OF THE WORK.
7. REMOVE AND REINSTALL EXISTING CEILINGS, MECHANICAL, AND ELECTRICAL EQUIPMENT, DEVICES, LIGHTING, EXIT SIGNS, FIRE ALARM DEVICES, CONDUIT, WIRING, ETC. AS REQUIRED TO ACCOMPLISH REMOVAL AND INSTALLATION OF NEW WORK, UNLESS OTHERWISE NOTED. VERIFY THE OPERATING CONDITION OF EQUIPMENT PRIOR TO THE START OF THE WORK AND REPORT CONDITIONS TO THE ARCHITECT. EXISTING EQUIPMENT AFFECTED BY THE WORK WHICH IS NOT IN PROPER OPERATING CONDITION AFTER WORK IS COMPLETED SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.
8. AT LOCATIONS WHERE NEW ELECTRICAL CONDUITS, MECHANICAL AND PLUMBING PIPING, ETC. PENETRATE THROUGH NEW OR EXISTING WALLS, INSTALL UL RATED THROUGH-PENETRATION FIRE STOPPING SYSTEM AROUND CONDUITS AND PIPING, ETC. TO PROVIDE A COMPLETE FIRE RATED SEPARATION AS REQUIRED.
9. WHERE NEW PENETRATIONS ARE MADE IN EXISTING WALLS AND FLOORS AND WHERE DEMOLITION HAS OCCURRED, CONTRACTOR SHALL RECONSTRUCT WALL OR FLOOR TIGHT AROUND PENETRATION WITH MATERIALS TO MATCH EXISTING WALL OR FLOOR CONSTRUCTION.
10. PATCH AND REPAIR EXISTING CONSTRUCTION, EXISTING SURFACES, AND NEWLY EXPOSED CONSTRUCTION AFFECTED BY THE WORK WITH MATERIALS AND FINISHES CONSISTENT WITH EXISTING TO MATCH ADJACENT SURFACES AND FINISHES, WHETHER SHOWN OR NOT ON THE DRAWINGS, TYP. - UNLESS NOTED OTHERWISE. PROVIDE NECESSARY AND REQUIRED PREPARATORY WORK TO EXISTING CONSTRUCTION AFFECTED BY THE WORK TO RECEIVE NEW AND PROPER FINISHES.
11. RESTORE ITEMS/DAMAGED AREAS AT STAGING AREAS, ETC. TO ORIGINAL FULLY FUNCTIONAL CONDITION.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING AND ADJUSTING EXISTING ITEMS WHETHER SHOWN OR NOT, INCLUDING ELECTRICAL, WIRING, CONDUITS, MECHANICAL, PLUMBING, FLOOR DRAIN COVERS, ETC.
13. PROPERLY PROTECT EXISTING BUILDING, CONCRETE WALKS, CURBS, PAVING, GRASS, LANDSCAPING, ETC. FROM DAMAGE DURING CONSTRUCTION.REPLACE ANY DISTURBED AND DAMAGED AREAS WITH NEW LIKE MATERIALS, SOD, LANDSCAPING, ETC, MATCHING EXISTING.
14. EXISTING ENTRANCES AND DRIVES MUST REMAIN OPEN AND PASSABLE.
15. MAINTAIN REQUIRED EXITS FROM THE EXISTING BUILDING THROUGH SUBSTANTIAL COMPLETION.
16. COORDINATE STAGING AREA/LOCATIONS WITH OWNER.
17. CONTRACTOR TO AVOID EXISTING ROOF AREAS WHERE NO WORK IS REQUIRED. DO NOT STAGE MATERIALS ON EXISTING ROOFING AREAS. DAMAGE TO EXISTING ROOF AREAS CAUSED BY CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AND PROVIDE A WATERTIGHT CONDITION THAT MATCHES ADJACENT ROOF SYSTEM. MAINTAIN EXITING WARRANTIES.

STATE OF ILLINOIS DANIEL G. SAAVEDRA 001-015740 LICENSED ARCHITECT

KEITH Engineering Design

ROCKFORD PUBLIC SCHOOLS

FEHR GRAHAM

Saavedra Group Architects

Revisions

No.	Date	

SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE

ROCKFORD, ILLINOIS

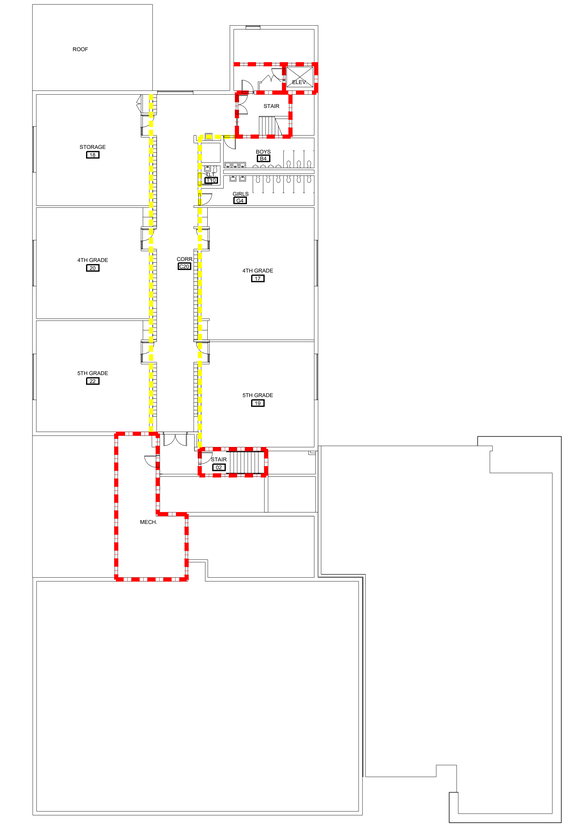
Sheet Title:
ABBREVIATIONS AND SYMBOLS, GENERAL NOTES, GENERAL DEMOLITION NOTES, AND ROOM FINISH SCHEDULE

Proj. No.:	21012.20
Date:	07/15/2022
Drawn:	MI
Approved:	MS
Sheet No.:	G101

FIRST FLOOR CODE PLAN - AREA 1 Y AREA 2

1/16"= 1-0"

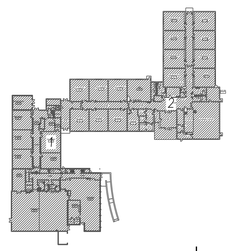
NORTH



SECOND FLOOR CODE PLAN

1/16"= 1-0"

NORTH



KEY PLAN

NO SCALE

NORTH

WALL RATING KEY

- 1/2 HOUR
- 3/4 HOUR
- 1 HOUR
- 2 HOUR

STATE OF ILLINOIS
DANIEL G. SAAVEDRA
001-015740
LICENSED ARCHITECT

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ROCKFORD, ILLINOIS 61103

Revisions

No.	Date

SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title:
FIRST AND SECOND SECOND FLOOR CODE PLAN

Proj. No.:	21012.20
Date:	07/15/2022
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SPRING CREEK ELEMENTARY SCHOOL - HVAC UPGRADE
ROOM FINISH SCHEDULE

		FLOOR				BASE				CEILING							CEILING HT.					TRM	WALL				KEYNOTE
		VCT	CERAMIC TILE	MATCH EXISTING	EXISTING	CERAMIC TILE	EPOXY WALL COATING	EXISTING		2 X2 SUSP. ACT.	GYPSUM BOARD	EXPOSED	GYPSUM BOARD SOFFIT	PAINT	EXISTING		9'-0" AFF	8'-5" AFF	8'-0" AFF	EXPOSED	EXISTING	EXISTING	CMU	GYPSUM BOARD	PAINT	EXISTING	
1	FIRST GRADE				●			●							●			●			●	●	●	●	●	●	1,2
2	KINDER GARTEN				●			●							●			●			●	●	●	●	●	●	1,2
3	FIRST GRADE				●			●							●			●			●	●	●	●	●	●	1,2
4	FIRST GRADE				●			●							●			●			●	●	●	●	●	●	1,2
5	KINDER GARTEN				●			●							●			●			●	●	●	●	●	●	1,2
6	KINDER GARTEN				●			●							●			●			●	●	●	●	●	●	1,2
7	MUSIC				●			●							●			●			●	●	●	●	●	●	1,2
8	KINDER GARTEN				●			●							●			●			●	●	●	●	●	●	1,2
9	TEAM RM				●			●							●			●			●	●	●	●	●	●	1,2
10	ART				●			●							●			●			●	●	●	●	●	●	1,2
11	SECOND GRADE				●			●							●			●			●	●	●	●	●	●	1,2
12	SELF CONTROL				●			●							●			●			●	●	●	●	●	●	1,2
13	SECOND GRADE				●			●							●			●			●	●	●	●	●	●	1,2
14	SELF CONTROL				●			●							●			●			●	●	●	●	●	●	1,2
15	SECOND GRADE				●			●							●			●			●	●	●	●	●	●	1,2
16	SELF CONTROL				●			●							●			●			●	●	●	●	●	●	1,2
17	FOURTH GRADE			●	●			●							●			●			●	●	●		●	●	1,2
18	STORAGE			●	●			●							●			●			●	●	●		●	●	1,2
19	FIFTH GRADE			●	●			●							●			●			●	●	●		●	●	2
20	FOURTH GRADE			●	●			●							●			●			●	●	●		●	●	2
21	INTERV				●			●							●			●			●	●	●		●	●	2
21.1	FOURTH GRADE				●			●							●			●			●	●				●	
21.2	BOILER ROOM				●			●							●			●			●	●				●	
22	FIFTH GRADE			●	●			●							●			●			●	●	●		●	●	2
23	FIFTH GRADE				●			●							●			●			●	●	●		●	●	2
23.1	STOR				●			●							●			●			●	●				●	
24	THIRD GRADE				●			●							●			●			●	●	●		●	●	2
25	TUTORING				●			●							●			●			●	●				●	
26	THIRD GRADE				●			●							●			●			●	●				●	
27	GYMNASIUM				●			●							●			●			●	●				●	
27.1	OFFICE				●			●							●			●			●	●				●	
27.2	STOR				●			●							●			●			●	●				●	
27.2	STOR				●			●							●			●			●	●				●	
28	THIRD GRADE			●	●			●							●			●			●	●				●	
29	CAFETERIA				●			●							●			●			●	●				●	
29.1	KITCHEN				●			●							●			●			●	●				●	
C01	CORRIDOR				●			●							●			●			●	●	●	●	●	●	1,2
C02	CORRIDOR				●			●							●			●			●	●	●	●	●	●	1,2
C03	CORRIDOR				●			●							●			●			●	●	●	●	●	●	1,2
C04	CORRIDOR				●			●							●			●			●	●	●	●	●	●	1,2

ROOM FINISH SCHEDULE GENERAL NOTES:

A. DO NOT PAINT SUSPENDED ACOUSTICAL CEILING SYSTEM.

B. PAINT ALL NEW EXPOSED DUCTWORK, CONDUIT, JUNCTION BOXES, ETC. INCLUDING ALL HANGERS,TRIM AND ASSOCIATED COMPONENTS WHETHER INDICATED OR NOT IN THE ROOM FINISH SCHEDULE.

C. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS.

D. PATCH TO MATCH EXISTING WALLS WHETHER INDICATED OR NOT TO ACCOMMODATE THE NEW WORK.

E. PROVIDE GYPSUM BOARD CONTROL JOINTS ON HORIZONTAL AND VERTICAL SURFACES AT LOCATIONS INDICATED ON THE DRAWINGS

ROOM FINISH SCHEDULE KEYNOTES:

1. PATCH, PREP AND PAINT CEILING – BASE BID
2. PAINT MASONRY INFILL WALL TO MATCH EXISTING ADJACENT WALL.
3. PROVIDE ACOUSTIC CEILING TILE – ALTERNATE BID
4. REINSTALL SALVAGED ACOUSTIC CEILING TILES AFTER WORK WAS PERFORMED.

GENERAL PAINTING NOTES:

1. PROVIDE NEW PAINT FINISH AT EXISTING AREAS AFFECTED BY THE WORK, AS INDICATED IN THE ROOM FINISH SCHEDULE, AND AS NOTED ON THE DRAWINGS.
2. FIELD VERIFY ITEMS, CONDITIONS, QUANTITIES, ETC.
3. PROVIDE PREPARATION AS NECESSARY PRIOR TO PAINTING WORK INCLUDING BUT NOT LIMITED TO PATCHING HOLES AND OTHER AREAS OF DAMAGE, SECURING LOOSE TRIM, CONDUITS AND ANY OTHER WALL OR CEILING HARDWARE ITEMS REQUIRING ATTENTION.
4. PROPERLY PROTECT EXISTING ITEMS DURING CLEANING AND PAINTING INCLUDING BUT NOT LIMITED.
5. PRIOR TO PAINTING WORK, PROVIDE TRI-SODIUM PHOSPHATE (TSP) CLEANING OF EXISTING SURFACES TO RECEIVE PAINT USING APPROVED METHODS OF CLEANING PER CHEMICAL MANUFACTURER'S REQUIREMENTS. PROTECT EXISTING ITEMS DURING CLEANING AND PAINTING.
6. PAINT NEWLY EXPOSED WALL SURFACES PREVIOUSLY CONCEALED BY THE EXISTING CONDITIONS.PAINT THE ENTIRE WALL THAT WILL REMAIN VISIBLE.
7. DO NOT PAINT ELECTRICAL FIXTURES, HOUSINGS, ELECTRICAL WALL DEVICES, SAFETY DEVICES, FIRE ALARM EQUIPMENT INCLUDING PULLS, HORNS, VISUAL DEVICES, SMOKE AND HEAT DETECTORS, ETC. PAINT EXPOSED ELECTRICAL CONDUIT AND ELECTRICAL BOXES.
8. PAINT NEW ITEMS AS INDICATED.
9. PAINT NEW EXPOSED INTERIOR CONDUIT, JUNCTION BOXES, ETC. INCLUDING HANGERS,TRIM, AND ASSOCIATED COMPONENTS WITHIN FINISHED EXPOSED SPACES WHETHER INDICATED OR NOT IN ROOM FINISH SCHEDULE.
10. AT NEW MASONRY INFILL, PAINT ENTIRE WALL THAT WILL REMAIN VISIBLE.

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Revisions

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SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title: ROOM FINISH SCHEDULE AND NOTES

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Approved: MS
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SPRING CREEK ELEMENTARY SCHOOL - HVAC UPGRADE
ROOM FINISH SCHEDULE

		FLOOR				BASE				CEILING							CEILING HT.					TRM	WALL				KEYNOTE
		VCT	CERAMIC TILE	MATCH EXISTING	EXISTING	CERAMIC TILE	EPOXY WALL COATING	EXISTING		2 X2 SUSP. ACT.	GYPSUM BOARD	EXPOSED	GYPSUM BOARD SOFFIT	PAINT	EXISTING		9'-0" AFF	8'-5" AFF	8'-0" AFF	EXPOSED	EXISTING	EXISTING	CMU	GYPSUM BOARD	PAINT	EXISTING	
C05	CORRIDOR				●			●							●						●	●				●	
C06	CORRIDOR				●			●							●						●	●				●	
C07	CORRIDOR				●			●							●						●	●				●	
C08	CORRIDOR				●			●							●						●	●				●	
C09	CORRIDOR				●			●							●						●	●				●	
T11	NURSE				●			●							●						●	●				●	
J1	JAN				●			●							●						●	●				●	
T12	STOR				●			●							●						●	●				●	
B1	BOYS REST				●			●							●						●	●				●	
G1	GIRL REST				●			●							●						●	●	●		●	●	2
1	BLR.RM.				●			●							●						●	●	●		●	●	2
L1	LEARNING CENTER				●			●							●						●	●	●		●	●	2
C01	CLASSROOM				●			●							●						●	●	●		●	●	2
K1	KITCHEN				●			●							●						●	●	●		●	●	2
CO2	LOUNGE				●			●							●						●	●				●	
CO3	LOUNGE				●			●							●						●	●				●	
L01	LOBBY				●			●							●						●	●				●	
V2	VEST				●			●							●						●	●				●	
T1	OFF				●			●							●						●	●				●	
T2	PRINC				●			●							●						●	●				●	
T3	STOR				●			●							●						●	●				●	
T4	OFF				●			●							●						●	●				●	
T5	OFF				●			●							●						●	●	●		●	●	2
T6	TUTOR				●			●							●						●	●	●	●	●	●	2
G2	WOMEN REST				●			●							●						●	●				●	
B2	MEN REST				●			●							●						●	●				●	
ST1-1	STAIR				●			●							●						●	●				●	
V01	VEST				●			●							●						●	●				●	
K2	KIT				●			●							●						●	●				●	
B3	BOYS REST				●			●							●						●	●				●	
T7	STOR				●			●							●						●	●				●	
T8	STOR				●			●							●						●	●				●	
G3	GIRL REST				●			●							●						●	●				●	
T9	MECH				●			●							●						●	●				●	
02	STAIR				●			●							●						●	●				●	
C20	CORRIDOR				●			●							●						●	●				●	
T10	TLT				●			●							●						●	●				●	
B4	BOYS REST				●			●							●						●	●				●	
G4	GIRL REST				●			●							●						●	●	●		●	●	2
9A	IT				●			●							●						●	●	●		●	●	2

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10. AT NEW MASONRY INFILL, PAINT ENTIRE WALL THAT WILL REMAIN VISIBLE.

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Revisions

No. | Date

SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title: ROOM FINISH SCHEDULE AND NOTES

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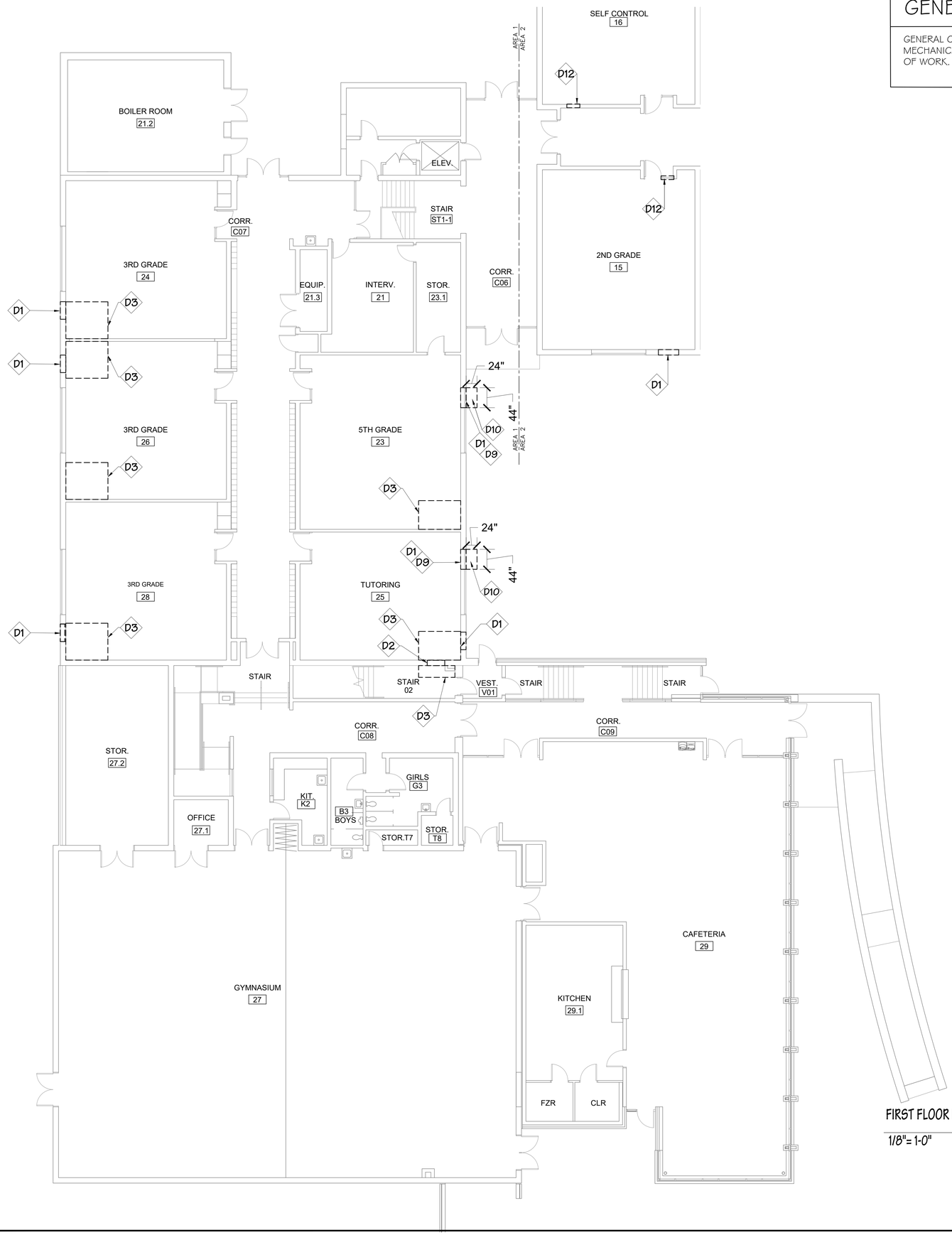


FIRST FLOOR DEMOLITION PLAN - AREA -1

1/8"= 1-0"

NORTH

GENERAL COORDINATION NOTE

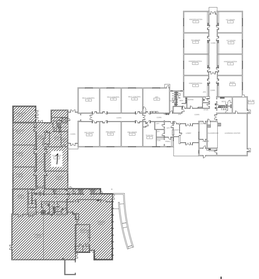
GENERAL CONTRACTOR TO COORDINATE DEMOLITION WITH MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO COMMENCEMENT OF WORK.

DEMOLITION KEYNOTES

D1	CAREFULLY REMOVE PORTION OF EXISTING WALL TO ACCOMMODATE NEW LOUVER; TOOTH-IN SALVAGED MASONRY AT PERIMETER OF OPENING TO MATCH EXISTING COURSING -RETURN ADDITIONAL SALVAGED MASONRY TO OWNER. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D2	REMOVE PORTION OF EXISTING WALL TO ACCOMMODATE NEW PIPING - REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D3	CAREFULLY REMOVE PORTION OF EXISTING ACOUSTIC CEILING TILE TO ACCOMMODATE THE NEW WORK AND SALVAGE FOR REINSTALLATION. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
D4	NOT IN USE
D5	REMOVE PORTION OF EXISTING GYPSUM BOARD/PLASTER TO ACCOMMODATE THE NEW WORK. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
D6	REMOVE EXISTING DIFFUSER - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D7	REMOVE EXISTING WINDOW AIR CONDITIONING IN ITS ENTIRETY.
D8	NOT IN USE
D9	REMOVE PORTION OF EXITING WINDOW TO ACCOMMODATE NEW LOUVER
D10	EXCAVATE GRADE TO PROVIDE WELL FOR NEW LOUVER
D11	PROVIDE NEW FLOOR PENETRATION TO ROUTE HWS/R PIPING TO FLOOR BELOW - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D12	REMOVE EXISTING GLASS PANEL TO ACCOMMODATE NEW WORK. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D13	CAREFULLY REMOVE CASEWORK AS REQUIRED TO PERFORM NEW WORK. SALVAGE FOR REINSTALLATION.

DEMO LEGEND

DEMOLITION



KEY PLAN

NO SCALE

NORTH

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Revisions

No.	Date

SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title: FIRST FLOOR DEMOLITION PLAN AREA- 1

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Drawn:	MI
Approved:	MS
Sheet No.:	D101

DEMOLITION KEYNOTES

D1	CAREFULLY REMOVE PORTION OF EXISTING WALL TO ACCOMMODATE NEW LOUVER; TOOTH-IN SALVAGED MASONRY AT PERIMETER OF OPENING TO MATCH EXISTING COURSING -RETURN ADDITIONAL SALVAGED MASONRY TO OWNER. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D2	REMOVE PORTION OF EXISTING WALL TO ACCOMMODATE NEW PIPING - REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D3	CAREFULLY REMOVE PORTION OF EXISTING ACOUSTIC CEILING TILE TO ACCOMMODATE THE NEW WORK AND SALVAGE FOR REINSTALLATION. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
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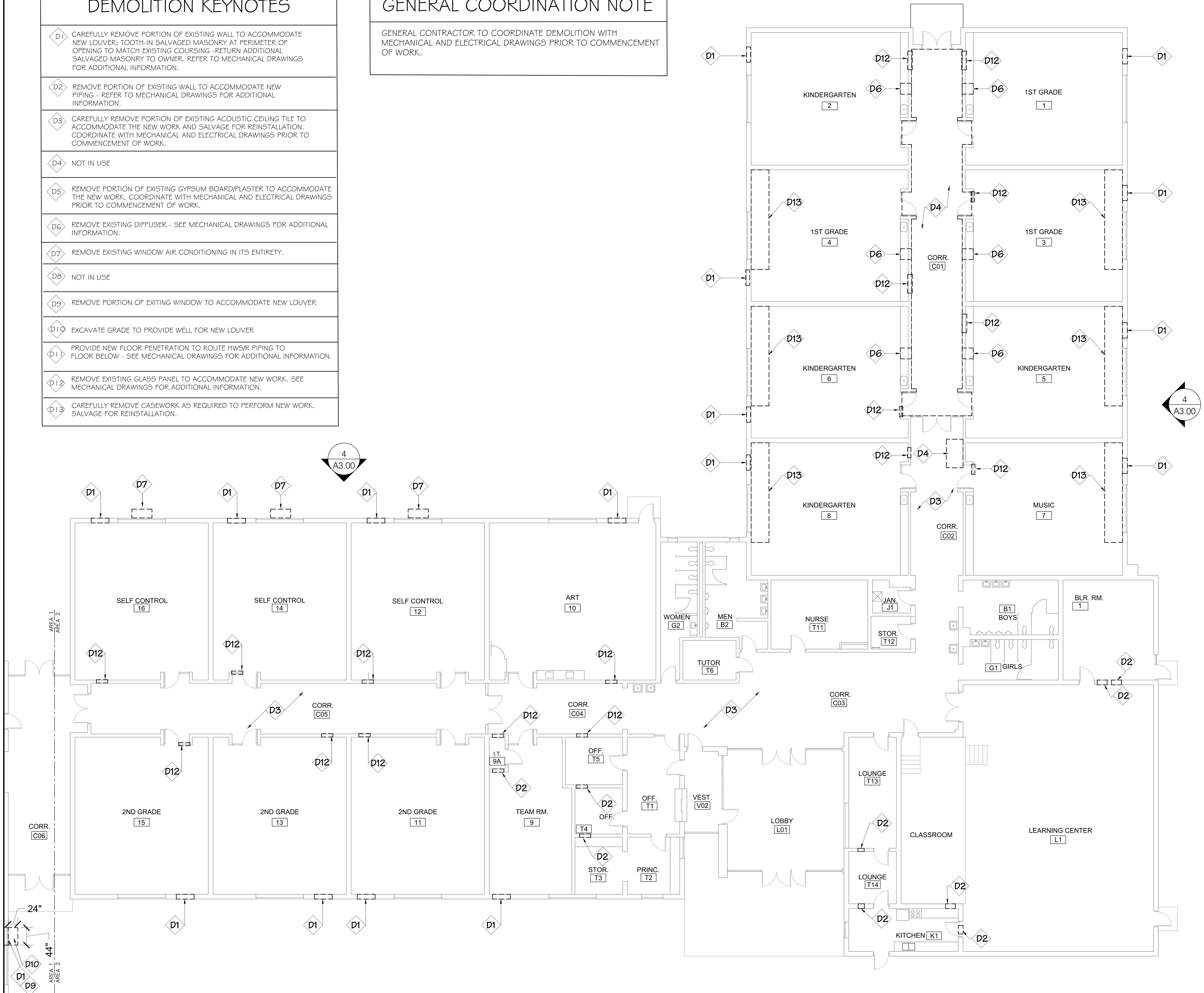
D12	REMOVE EXISTING GLASS PANEL TO ACCOMMODATE NEW WORK. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D13	CAREFULLY REMOVE CASEWORK AS REQUIRED TO PERFORM NEW WORK. SALVAGE FOR REINSTALLATION.

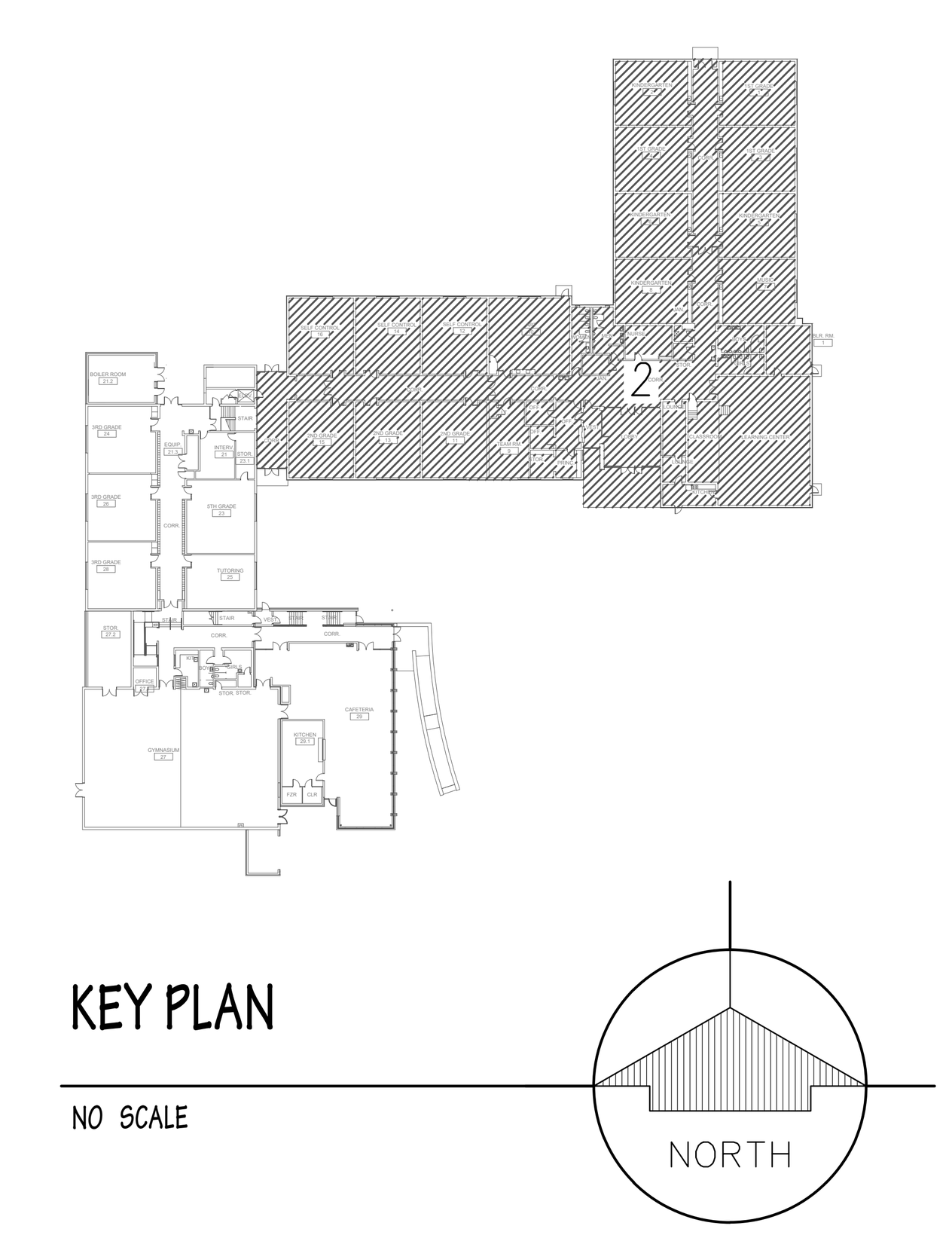
GENERAL COORDINATION NOTE

GENERAL CONTRACTOR TO COORDINATE DEMOLITION WITH MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO COMMENCEMENT OF WORK.



DEMO LEGEND

DEMOLITION



KEY PLAN

NO SCALE

STATE OF ILLINOIS DANIEL M. SAAVEDRA 001-015749 LICENSED ARCHITECT

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Saavedra Group Architects 504 N. CHURCH STREET ROCKFORD, ILLINOIS 61103

Revisions

No. Date

SPRING CREEK ELEMENTARY SCHOOL HVAC UPGRADE

ROCKFORD, ILLINOIS

Sheet Title: FIRST FLOOR DEMOLITION PLAN AREA 2

Proj. No.: 21012.20

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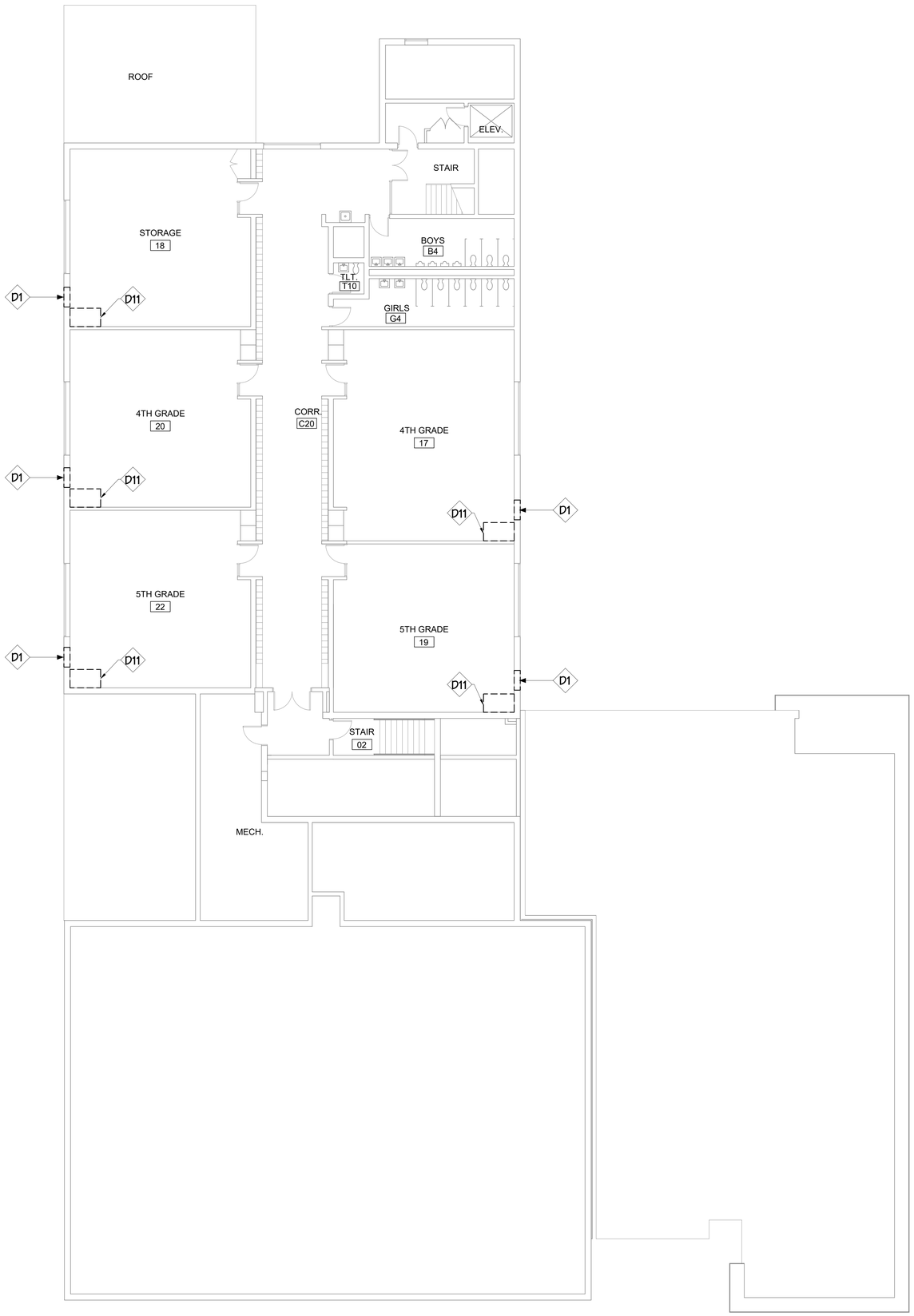
Sheet No.: D102



GENERAL COORDINATION NOTE

GENERAL CONTRACTOR TO COORDINATE DEMOLITION WITH MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO COMMENCEMENT OF WORK.

DEMOLITION KEYNOTES

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D9	REMOVE PORTION OF EXITING WINDOW TO ACCOMMODATE NEW LOUVER
D10	EXCAVATE GRADE TO PROVIDE WELL FOR NEW LOUVER
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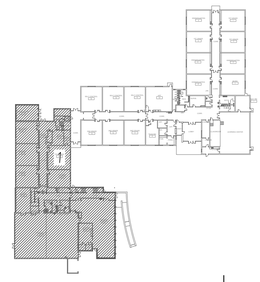
D12	REMOVE EXISTING GLASS PANEL TO ACCOMMODATE NEW WORK. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
D13	CAREFULLY REMOVE CASEWORK AS REQUIRED TO PERFORM NEW WORK. SALVAGE FOR REINSTALLATION.

DEMO LEGEND

DEMOLITION



KEY PLAN

NO SCALE

NORTH

SECOND FLOOR DEMOLITION PLAN - AREA-1

1/8"= 1-0"

NORTH

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No.	Date	Revisions

SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title: SECOND FLOOR DEMOLITION PLAN AREA - 1

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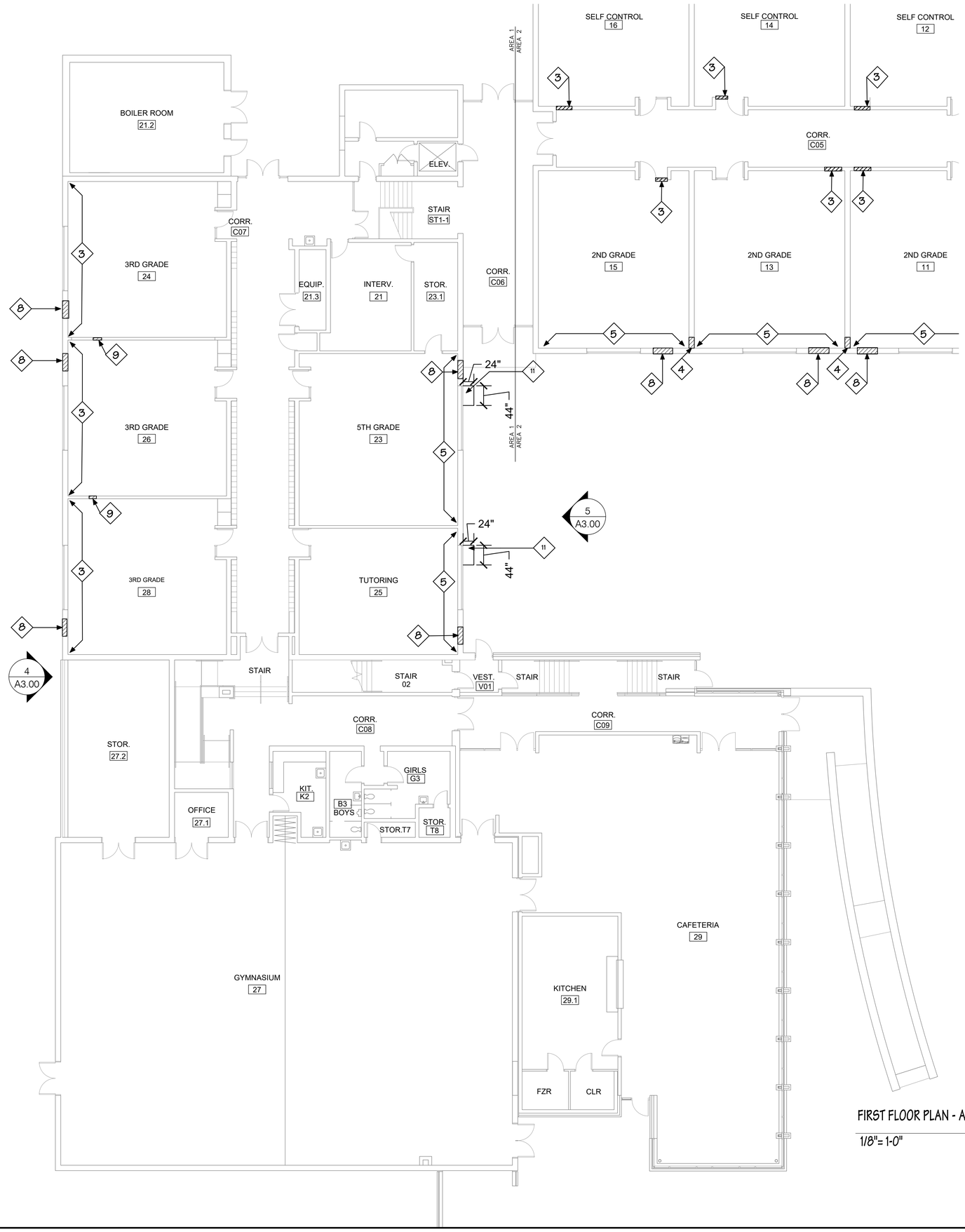


FIRST FLOOR PLAN - AREA 1

1/8"= 1-0"

NORTH

NEW WORK KEYNOTES

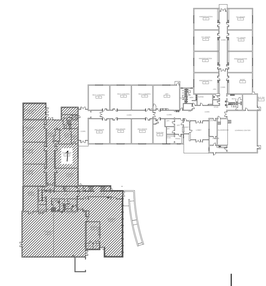
1	WHERE PIPING WAS REMOVED; PATCH CONCRETE SLAB FLOOR AND PREP SUBFLOOR TO RECEIVE FINISH FLOORING. PATCH EXISTING FINISH FLOORING TO MATCH EXISTING MATERIAL COLOR, TEXTURE AND SIZE.
2	NOT IN USE.
3	INSTALL SHEET METAL PANEL WHERE HWS/R PIPE WAS INSTALLED - PAINT TO MATCH EXISTING.
4	WHERE PIPING WAS REMOVED; INFILL HOLE WITH FULL CMU TO MATCH THICKNESS, AND COURSING. PAINT TO MATCH EXISTING ADJACENT SURFACE.
5	WHERE MECHANICAL EQUIPMENT IS BEING REPLACED. PATCH, PREP AND PAINT NEWLY EXPOSED WALL SURFACE TO MATCH EXISTING ADJACENT SURFACE.
6	WHERE DUCTWORK WAS REMOVED; INSTALL A WOOD PANEL, PAINT TO MATCH EXISTING ADJACENT SURFACE.(NOT IN USE).
7	NOT IN USE.
8	METAL LOUVER - REFER TO MECHANICAL DRAWINGS AND DETAIL 2/A1.02
9	WHERE NEW PIPING HAS BEEN ROUTED THROUGH AN EXISTING MASONRY WALL - INFILL HOLE TIGHT TO THE NEW PIPING WITH FULL CMU. MATCH THICKNESS AND COURSING. PROVIDE FIRE CAULK AROUND PENETRATION.
10	INSTALL NEW GLASS TO MATCH EXISTING IN R-VALUE AND COLOR.
11	STAINLESS STEEL WINDOW WELL WITH STEEL GRATE COVER
12	REINSTALL CASEWORK AFTER WORK HAS BEEN PERFOMED.

GENERAL COORDINATION NOTE

GENERAL CONTRACTOR TO COORDINATE DEMOLITION WITH MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO COMMENCEMENT OF WORK.

LEGEND

NEW WORK



KEY PLAN

NO SCALE

NORTH

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Revisions

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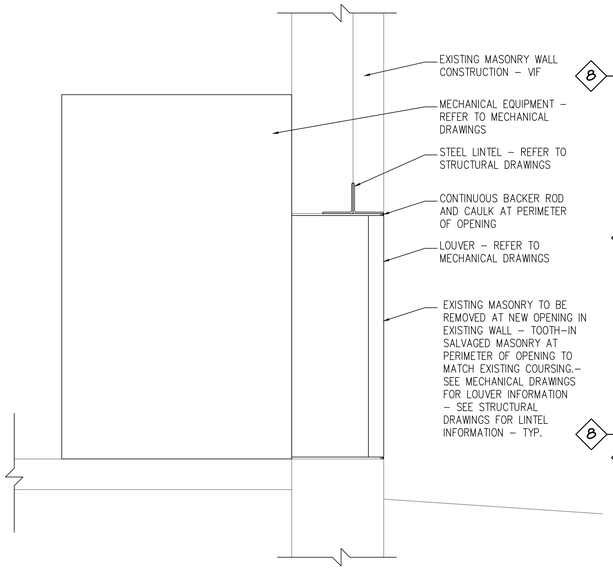
SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title:
FIRST FLOOR PLAN
AREA 1

Proj. No.: 21012.20
Date: 07/15/2022
Drawn: MI
Approved: MS
Sheet No.: A101

NEW WORK KEYNOTES

1	WHERE PIPING WAS REMOVED; PATCH CONCRETE SLAB FLOOR AND PREP SUBFLOOR TO RECEIVE FINISH FLOORING. PATCH EXISTING FINISH FLOORING TO MATCH EXISTING MATERIAL COLOR, TEXTURE AND SIZE.
2	NOT IN USE.
3	INSTALL SHEET METAL PANEL WHERE HWS/R PIPE WAS INSTALLED - PAINT TO MATCH EXISTING.
4	WHERE PIPING WAS REMOVED; INFILL HOLE WITH FULL CMU TO MATCH THICKNESS, AND COURSING. PAINT TO MATCH EXISTING ADJACENT SURFACE.
5	WHERE MECHANICAL EQUIPMENT IS BEING REPLACED. PATCH, PREP AND PAINT NEWLY EXPOSED WALL SURFACE TO MATCH EXISTING ADJACENT SURFACE.
6	WHERE DUCTWORK WAS REMOVED; INSTALL A WOOD PANEL, PAINT TO MATCH EXISTING ADJACENT SURFACE.(NOT IN USE).
7	NOT IN USE.
8	METAL LOUVER - REFER TO MECHANICAL DRAWINGS AND DETAIL 2/A1.02
9	WHERE NEW PIPING HAS BEEN ROUTED THROUGH AN EXISTING MASONRY WALL - INFILL HOLE TIGHT TO THE NEW PIPING WITH FULL CMU. MATCH THICKNESS AND COURSING. PROVIDE FIRE CAULK AROUND PENETRATION.
10	INSTALL NEW GLASS TO MATCH EXISTING IN R-VALUE AND COLOR.
11	STAINLESS STEEL WINDOW WELL WITH STEEL GRATE COVER
12	REINSTALL CASEWORK AFTER WORK HAS BEEN PERFOMED.



2 TYPICAL LOUVER DETAIL
1 1/2" = 1'-0"

3 A3.00

4 A3.00

4 A3.00

6 A3.00

FIRST FLOOR PLAN - AREA 2
1/8"= 1-0"

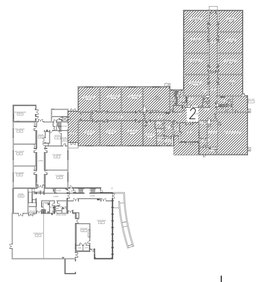
NORTH

GENERAL COORDINATION NOTE

GENERAL CONTRACTOR TO COORDINATE DEMOLITION WITH MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO COMMENCEMENT OF WORK.

LEGEND

NEW WORK



KEY PLAN
NO SCALE

NORTH

STATE OF ILLINOIS
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No.	Date	Revisions

SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title: FIRST FLOOR PLAN AREA 2

Proj. No.:	21012.20
Date:	07/15/2022
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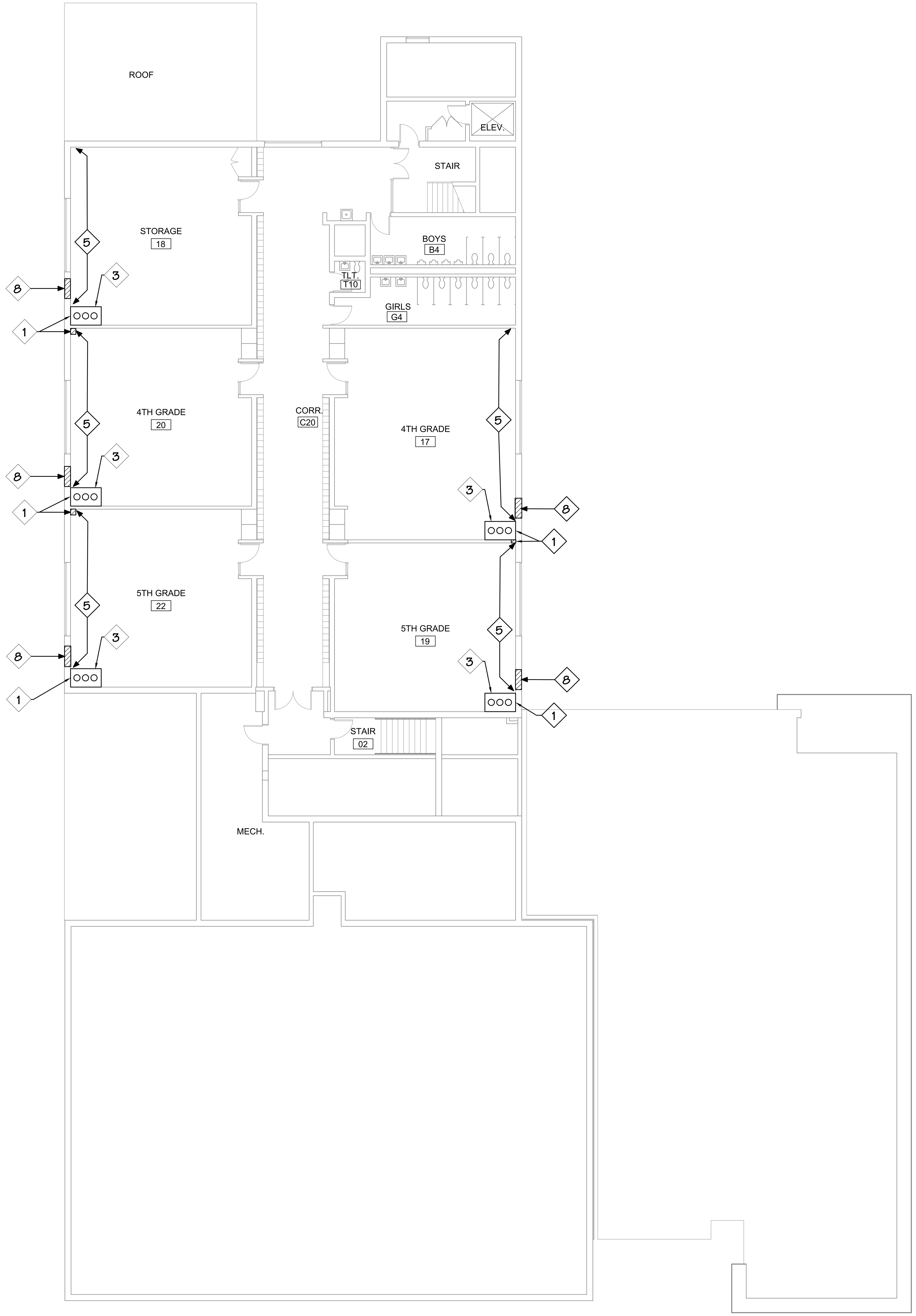
Sheet No.:	A102



NEW WORK KEYNOTES

1	WHERE PIPING WAS REMOVED; PATCH CONCRETE SLAB FLOOR AND PREP SUBFLOOR TO RECEIVE FINISH FLOORING. PATCH EXISTING FINISH FLOORING TO MATCH EXISTING MATERIAL COLOR, TEXTURE AND SIZE.
2	NOT IN USE.
3	INSTALL SHEET METAL PANEL WHERE HWS/R PIPE WAS INSTALLED - PAINT TO MATCH EXISTING.
4	WHERE PIPING WAS REMOVED; INFILL HOLE WITH FULL CMU TO MATCH THICKNESS, AND COURSING. PAINT TO MATCH EXISTING ADJACENT SURFACE.
5	WHERE MECHANICAL EQUIPMENT IS BEING REPLACED. PATCH, PREP AND PAINT NEWLY EXPOSED WALL SURFACE TO MATCH EXISTING ADJACENT SURFACE.
6	WHERE DUCTWORK WAS REMOVED; INSTALL A WOOD PANEL, PAINT TO MATCH EXISTING ADJACENT SURFACE.(NOT IN USE).
7	NOT IN USE.
8	METAL LOUVER - REFER TO MECHANICAL DRAWINGS AND DETAIL 2/A1.02
9	WHERE NEW PIPING HAS BEEN ROUTED THROUGH AN EXISTING MASONRY WALL - INFILL HOLE TIGHT TO THE NEW PIPING WITH FULL CMU. MATCH THICKNESS AND COURSING. PROVIDE FIRE CAULK AROUND PENETRATION.
10	INSTALL NEW GLASS TO MATCH EXISTING IN R-VALUE AND COLOR.
11	STAINLESS STEEL WINDOW WELL WITH STEEL GRATE COVER
12	REINSTALL CASEWORK AFTER WORK HAS BEEN PERFOMED.

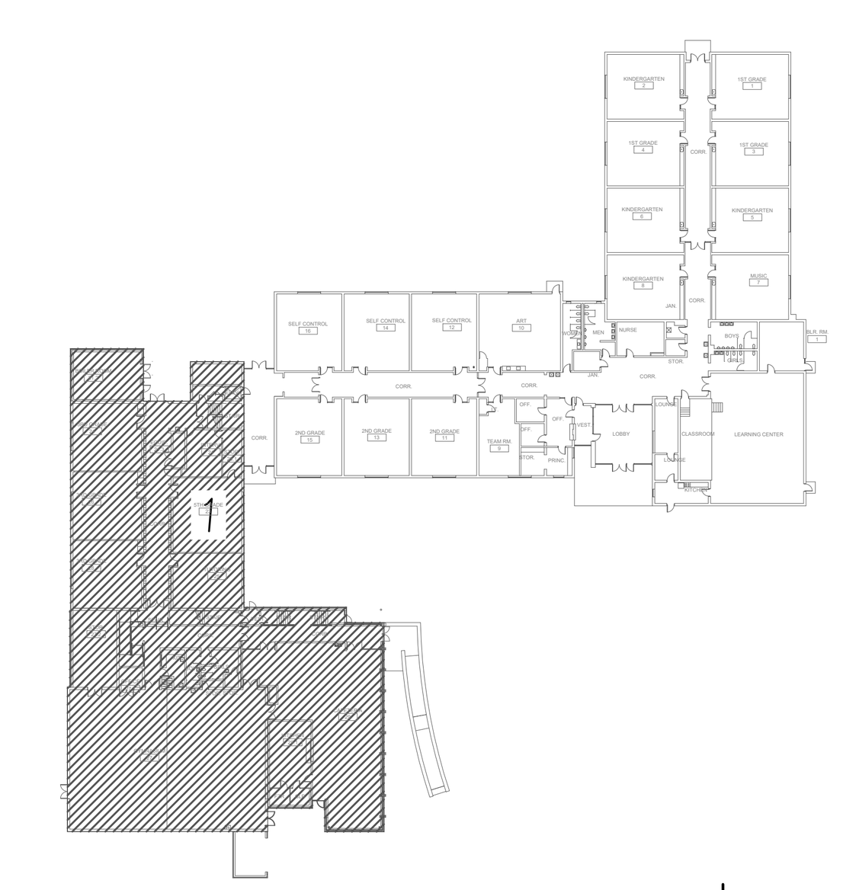
LEGEND

NEW WORK

SECOND FLOOR PLAN AREA 1

1/8"= 1-0"

NORTH



KEY PLAN

NO SCALE

NORTH

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Revisions

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SPRING CREEK ELEMENTARY SCHOOL
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Sheet Title: SECOND FLOOR PLAN AREA 1

Proj. No.: 21012.20
Date: 07/15/2022
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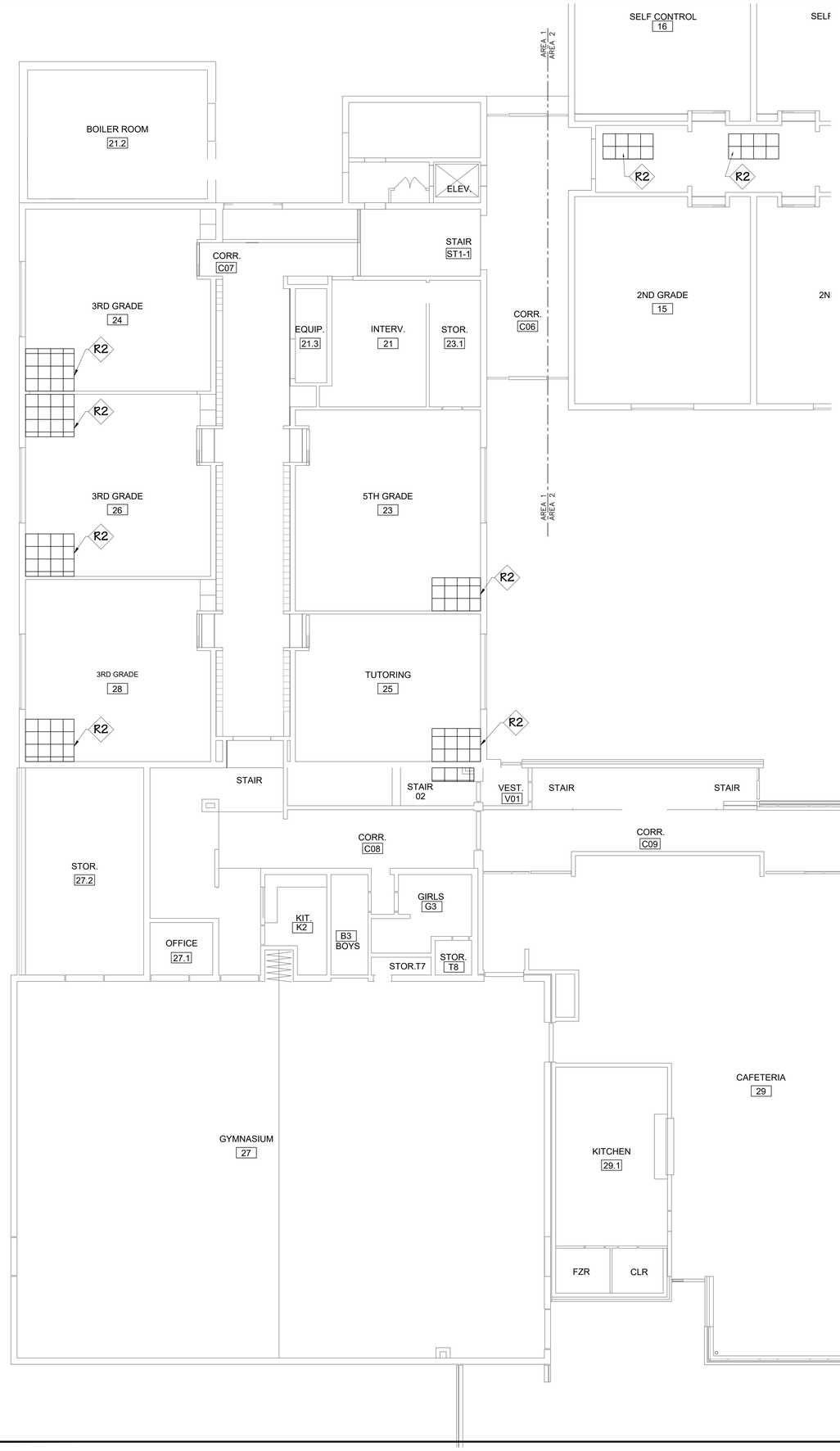
Approved: MS
Sheet No.: A111



FIRST FLOOR REFLECTED CEILING PLAN - AREA 1-BASE BID

1/8"= 1-0"

NORTH

REFLECTED CEILING PLAN KEYNOTES

R1	2X2 ACOUSTIC CEILING TILE-HEIGHT TO MATCH EXISTING
R2	REINSTALL SALVAGED ACOUSTICAL CEILING TILES.

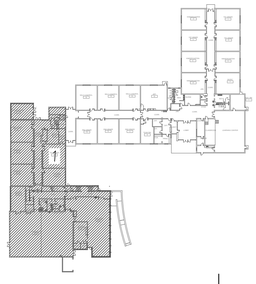
REFLECTED CEILING NOTES

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

CEILING/MEP COORDINATION NOTE:

CONTRACTOR SHALL COORDINATE IN THE FIELD PRIOR TO THE INSTALLATION OF MECHANICAL, ELECTRICAL ITEMS TO MAINTAIN THE MAXIMUM CEILING HEIGHT POSSIBLE. ARCHITECTURE CEILINGS 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



KEY PLAN

NO SCALE

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No.	Date	Revisions

SPRING CREEK ELEMENTARY SCHOOL
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ROCKFORD, ILLINOIS

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

Proj. No.:	21012.20
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Approved:	MS
Sheet No.:	A201

REFLECTED CEILING PLAN KEYNOTES

R1	2X2 ACOUSTIC CEILING TILE-HEIGHT TO MATCH EXISTING
R2	REINSTALL SALVAGED ACOUSTICAL CEILING TILES.

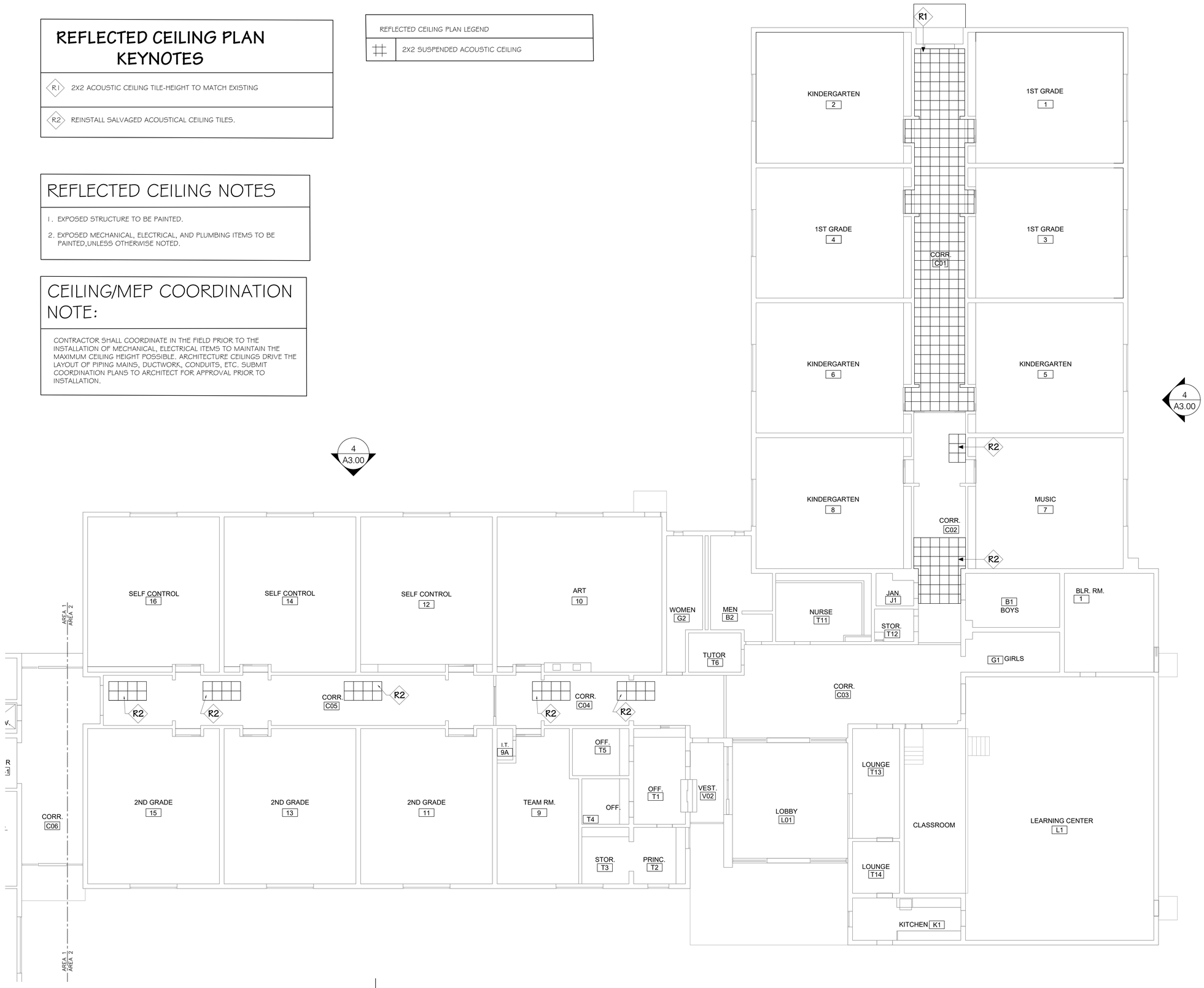
REFLECTED CEILING PLAN LEGEND	
#	2X2 SUSPENDED ACOUSTIC CEILING

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:

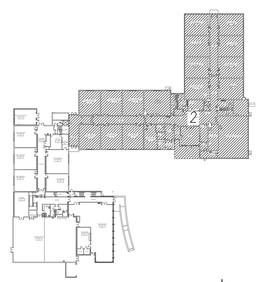
CONTRACTOR SHALL COORDINATE IN THE FIELD PRIOR TO THE INSTALLATION OF MECHANICAL, ELECTRICAL ITEMS TO MAINTAIN THE MAXIMUM CEILING HEIGHT POSSIBLE. ARCHITECTURE CEILINGS DRIVE THE LAYOUT OF PIPING MAINS, DUCTWORK, CONDUITS, ETC. SUBMIT COORDINATION PLANS TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.



FIRST FLOOR REFLECTED CEILING PLAN - AREA 2 BASE BID

1/8"= 1-0"

NORTH



KEY PLAN

NO SCALE

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No.	Date

SPRING CREEK ELEMENTARY SCHOOL
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ROCKFORD, ILLINOIS

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

Proj. No.:	21012.20
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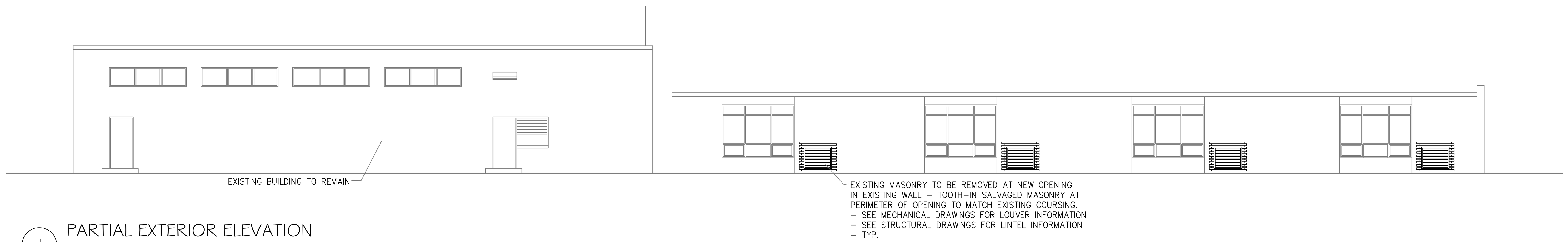
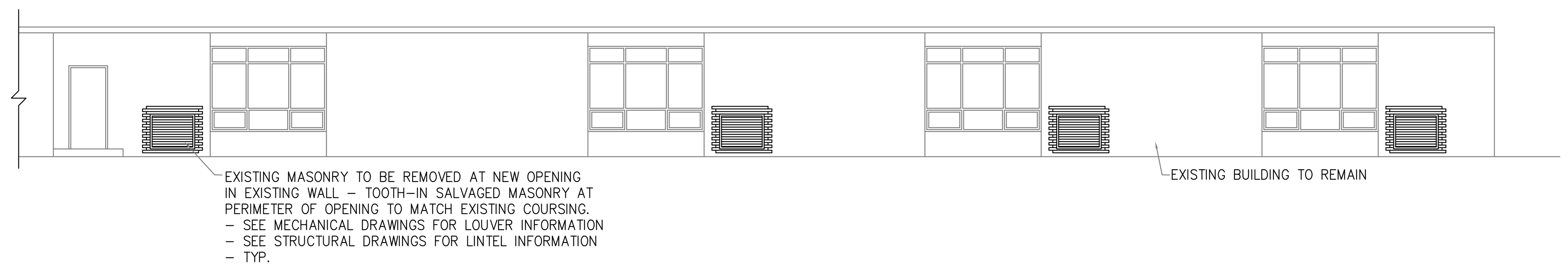
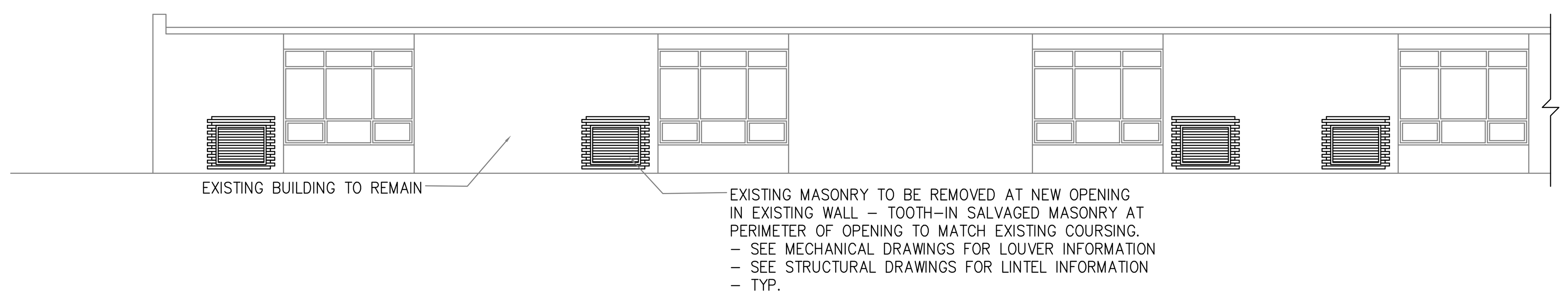
Approved:	MS
Sheet No.:	A202



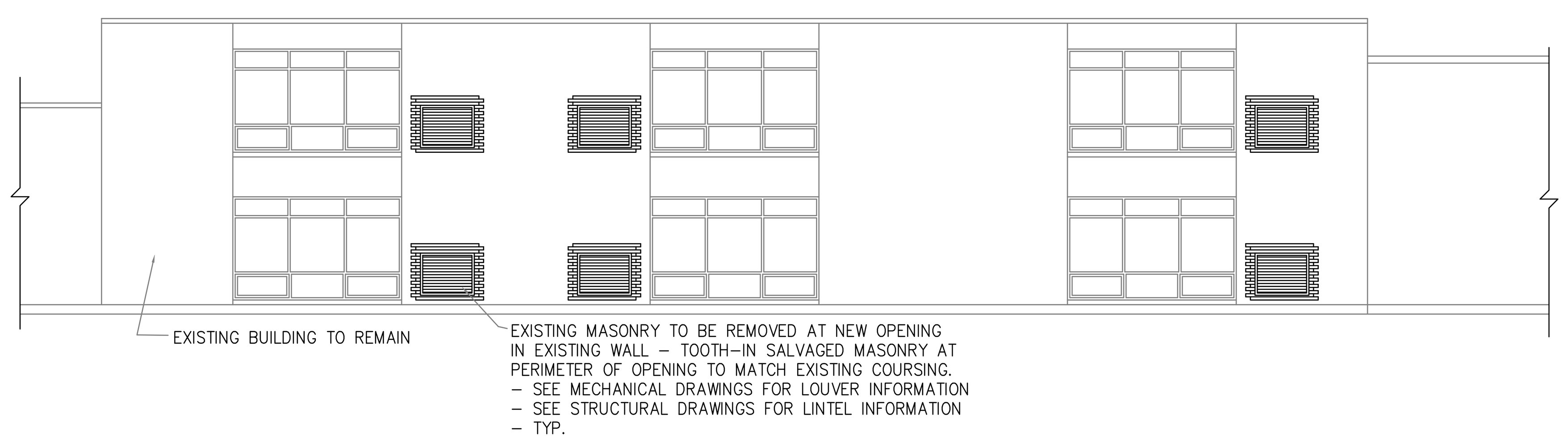
1 PARTIAL EXTERIOR ELEVATION
1/8"= 1-0"



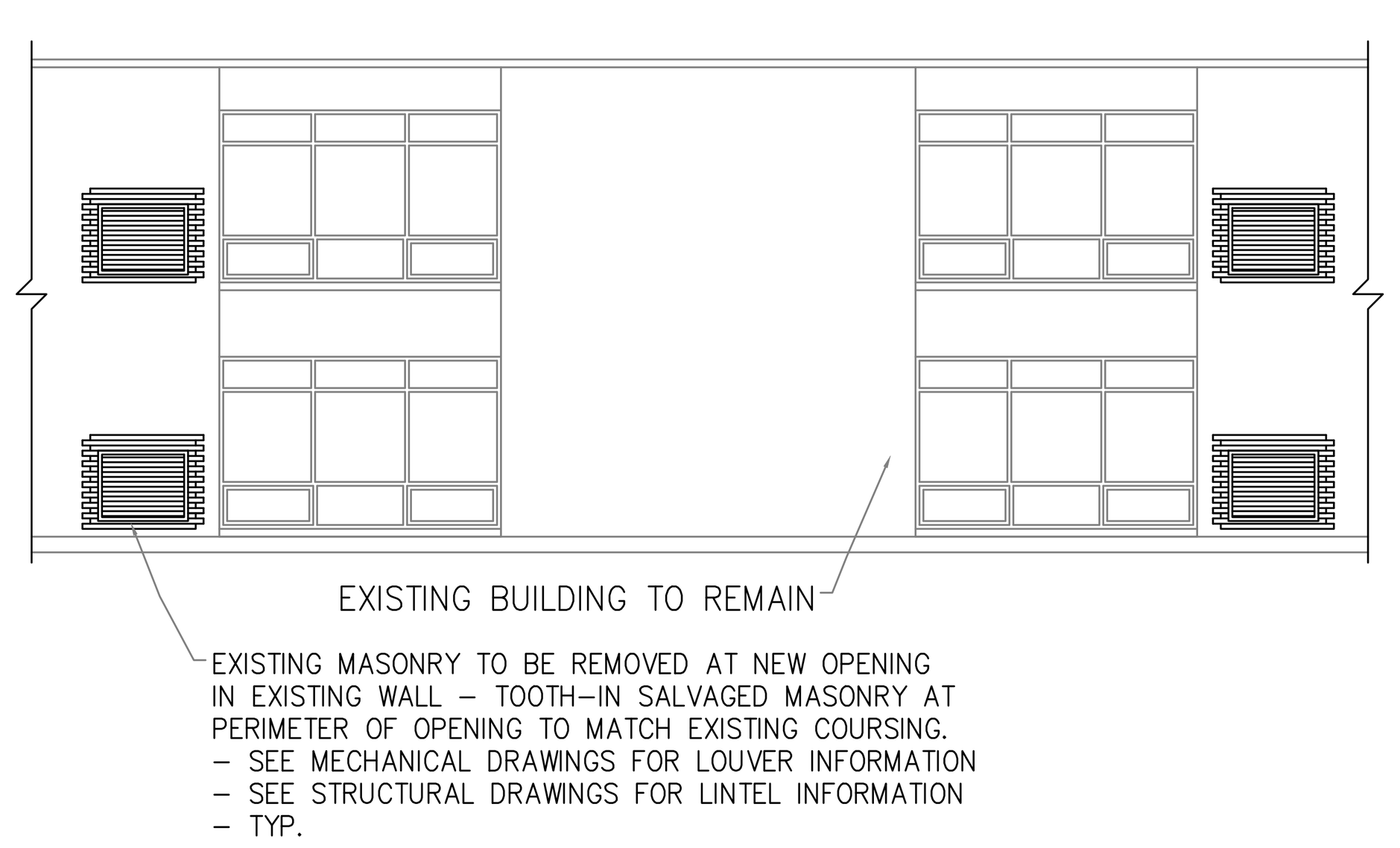
2 PARTIAL EXTERIOR ELEVATION
1/8"= 1-0"



3 PARTIAL EXTERIOR ELEVATION
1/8"= 1-0"



4 PARTIAL EXTERIOR ELEVATION
1/8"= 1-0"



5 PARTIAL EXTERIOR ELEVATION
1/8"= 1-0"

SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE

ROCKFORD, ILLINOIS

No.	Date	Revisions

Sheet Title: ELEVATIONS

Proj. No.: 21012.20
Date: 07/15/2022
Drawn: MI
Approved: MS
Sheet No.: A300

GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATING ANY MATERIALS. IF DIMENSIONS ARE SUBSTANTIALLY DIFFERENT CONTACT ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. DIMENSIONS ARE BASED ON CAD DRAWINGS RECEIVED FROM THE OWNER.
2. ANY AREAS DAMAGED OR DESTROYED DURING THE PROJECT AS A DIRECT OR INDIRECT RESULT OF CONTRACTOR OPERATIONS, SHALL BE RESTORED TO THAT CONDITION OR BETTER WHICH EXISTED PRIOR TO STARTING CONSTRUCTION. THE COST OF SAID RESTORATION OR REPAIR SHALL BE BORNE TOTALLY BY THE CONTRACTOR, WITH NO EXTRA COMPENSATION BEING AWARDED UNDER THIS CONTRACT. THE RESPONSIBILITY FOR THE REPAIR OR REPLACEMENT OF ANY UTILITY, STRUCTURE, LANDSCAPING, ETC. DAMAGED OR DESTROYED BY THE CONTRACTOR DURING MOBILIZATION OR CONSTRUCTION SHALL BE BORNE SOLELY BY THE CONTRACTOR, WITH NO EXPENSE BEING CHARGED TO THE ENGINEER OR OWNER. PRIOR TO ACCEPTANCE OF THIS REPAIR OR REPLACEMENT, THE CONTRACTOR SHALL PRESENT THE OWNER WITH A "SIGNOFF LETTER", SIGNED BY A RESPONSIBLE OFFICIAL OF THE OWNER OF THE DAMAGED ITEM(S) STATING THAT THE REPAIR OR REPLACEMENT IS ACCEPTABLE.
3. EXISTING JOISTS AS SHOWN ARE PER EXISTING PLANS. VERIFY JOIST IN FIELD AND REPORT TO ENGINEER BEFORE PROCEEDING.
4. IF DUCTS OR SUPPORTS CONFLICT WITH JOIST BRIDGING, CONTRACTOR SHALL NOTIFY ENGINEER. CONTRACTOR SHALL PROVIDE STRUCTURAL MODIFICATIONS AS NEEDED TO MAINTAIN BRIDGING.
5. ALL STEEL WORK SHALL BE IN ACCORDANCE WITH THE AISC SPECIFICATION. SHOP DRAWINGS SHALL BE SUBMITTED AND REVIEWED BY THE ENGINEER BEFORE COMMENCING FABRICATION.
6. ALL NEW PLATES & ANGLES TO CONFORM TO ASTM A36
7. ALL WELDING SHALL CONFORM TO AWS WITH E70XX ELECTRODES.
8. STEEL BEAMS, PLATES, AND HARDWARE SHALL BE COATED OR GALVANIZED PER PROJECT SPECIFICATION REPAIR COATING SYSTEMS DAMAGED BY WELDING.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDES THAT INCLUDE BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES AND OTHER AIDES.
10. CEILING, HVAC, PIPING, AND OTHER LOADS MAY NOT BE SUSPENDED FROM METAL ROOF DECK.
11. EXISTING UTILITIES AND PIPING MAY BE LOCATED WITHIN WALLS. CONTRACTOR SHALL TAKE DUE CAUTION DURING DEMOLITION WORK.

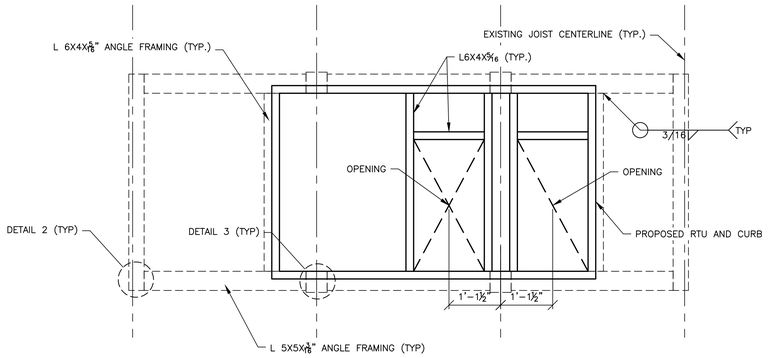
APPLICABLE CODES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE BUILDING CODE. THE PUBLICATIONS NOTED BELOW ARE THE GOVERNING CODES AND STANDARDS AND ARE REFERENCED BY THEIR BASIC DESIGNATION. IN THE CASE OF CONFLICTING REQUIREMENTS, THE BUILDING CODE SHALL GOVERN.

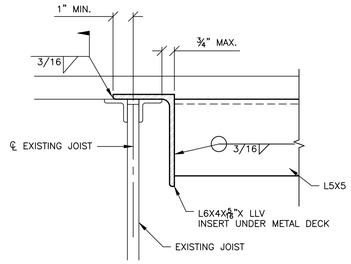
BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION WITH LOCAL AMENDMENTS.
INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2015 EDITION WITH LOCAL AMNEDMENTS.

SUPERIMPOSED DESIGN LOADS

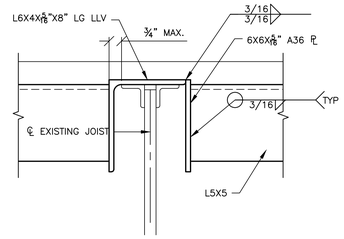
A.	GENERAL	
	BUILDING OCCUPANCY CATEGORY	II
B.	WIND LOAD	
	BASIC WIND SPEED:	115 MPH
	WIND IMPORTANCE FACTOR:	Iw = 1.00
	WIND EXPOSURE CATEGORY:	C
C.	SNOW LOAD	
	GROUND SNOW LOAD	Pg = 25 PSF
	SNOW EXPOSURE FACTOR	Ce = 1.0
	SNOW ROOF SLOPE FACTOR	Cs = 1.0
	SNOW IMPORTANCE FACTOR	Is = 1.0
	THERMAL FACTOR	Ct = 1.0
	BALANCED SNOW LOAD	= 21.0 PSF
	UNIFORM ROOF DESIGN LOAD	= 22.0 PSF
D.	EARTHQUAKE LOAD	
	SEISMIC FACTOR	IE = 1.25
	SDS / SDI	0.45/0.094
	SITE CLASS	D
	SEISMIC DESIGN CATEGORY	B
E.	ROOF SUPERIMPOSED DEAD LOAD	24 PSF (INCLUDING COLLATERAL)
F.	ROOF LIVE LOAD	20 PSF
G.	ROOFTOP EQUIPMENT	1,193 LBS



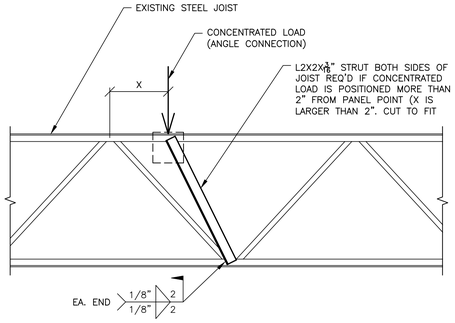
DETAIL 1- TYPICAL ENLARGED PLAN AT RTU
PROVIDE CUSTOM FRAMING AT EACH RTU
PROVIDE SIMILAR FOR UNITS ROTATED 90°



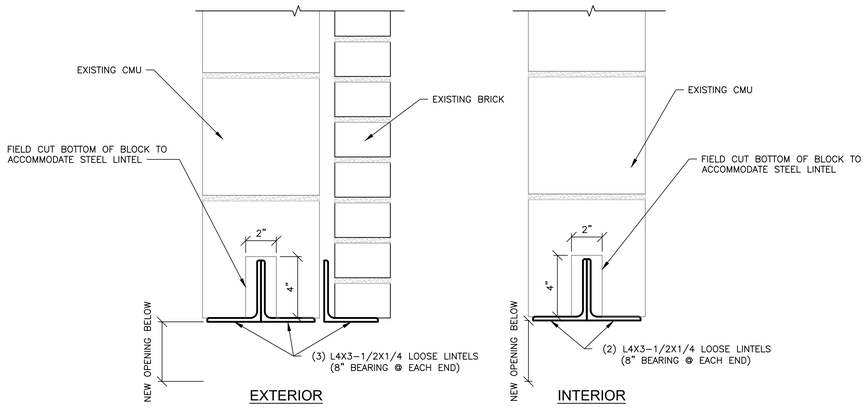
DETAIL 2 - JOIST CONNECTION



DETAIL 3 - MIDDLE JOIST CONNECTION



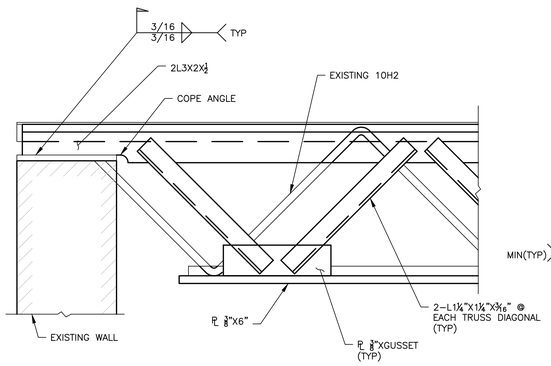
DETAIL 4 - JOIST CHORD REINFORCEMENT



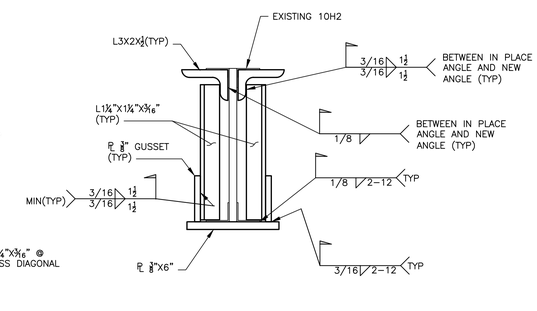
DETAIL NOTES:

1. LINTELS SHALL BE HOT DIPPED GALVANIZED. COAT EXPOSED SURFACES.
2. FILL EXISTING BLOCK CELLS AT JAMBS WITH GROUT FROM LINTEL BEARING DOWN TO BASE
3. CONTRACTOR TO FIELD VERIFY WALL TYPES.
4. REFERENCE ARCH FOR FLASHING

DETAIL 5- LINTEL
FOR OPENINGS < 3'-0" WIDE.



ELEVATION



SECTION

DETAIL 6- JOIST REINFORCEMENT
1. PROVIDE AT JOISTS PER RTU
2. BRIDGING SHALL BE MODIFIED TO SUIT

DANIEL PATRICK CACERES
081-007646
EXPIRES: 11/30/2022
06/23/2022

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Revisions

No.	Date	

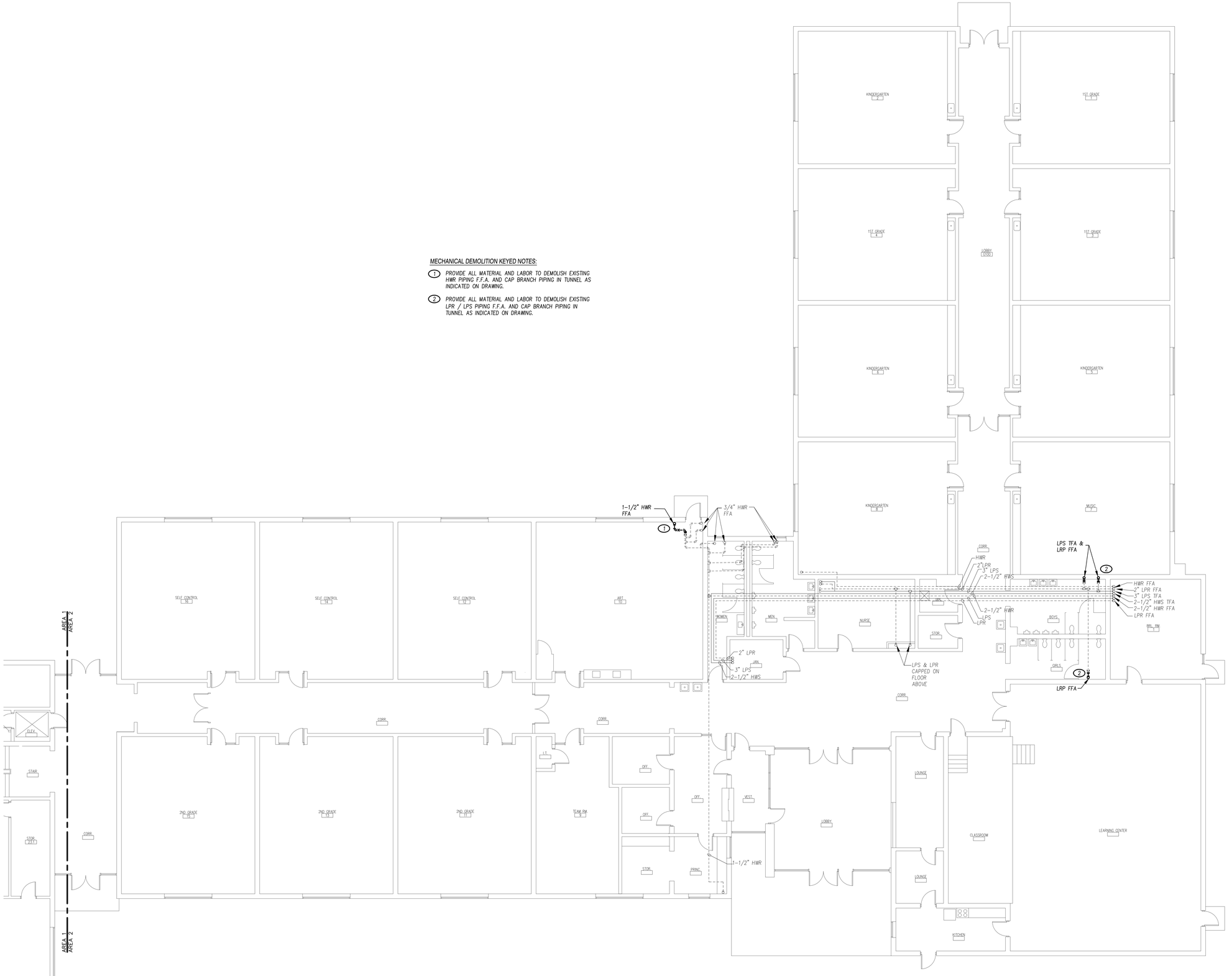
SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title: GENERAL NOTES AND DETAILS

Proj. No.: 21-825
Date: 06/23/2022
Drawn: EJA
Approved: DC
Sheet No.: S1.01

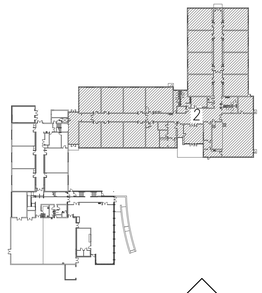
MECHANICAL DEMOLITION KEYED NOTES:

1. PROVIDE ALL MATERIAL AND LABOR TO DEMOLISH EXISTING HWR PIPING F.F.A. AND CAP BRANCH PIPING IN TUNNEL AS INDICATED ON DRAWING.
2. PROVIDE ALL MATERIAL AND LABOR TO DEMOLISH EXISTING LPR / LPS PIPING F.F.A. AND CAP BRANCH PIPING IN TUNNEL AS INDICATED ON DRAWING.



1 TUNNEL PLAN - MECHANICAL DEMOLITION - AREA 2
SCALE: 1/8" = 1'-0"

NORTH



KEY PLAN
SCALE: NOT TO SCALE

NORTH

DATE: 7/15/2022

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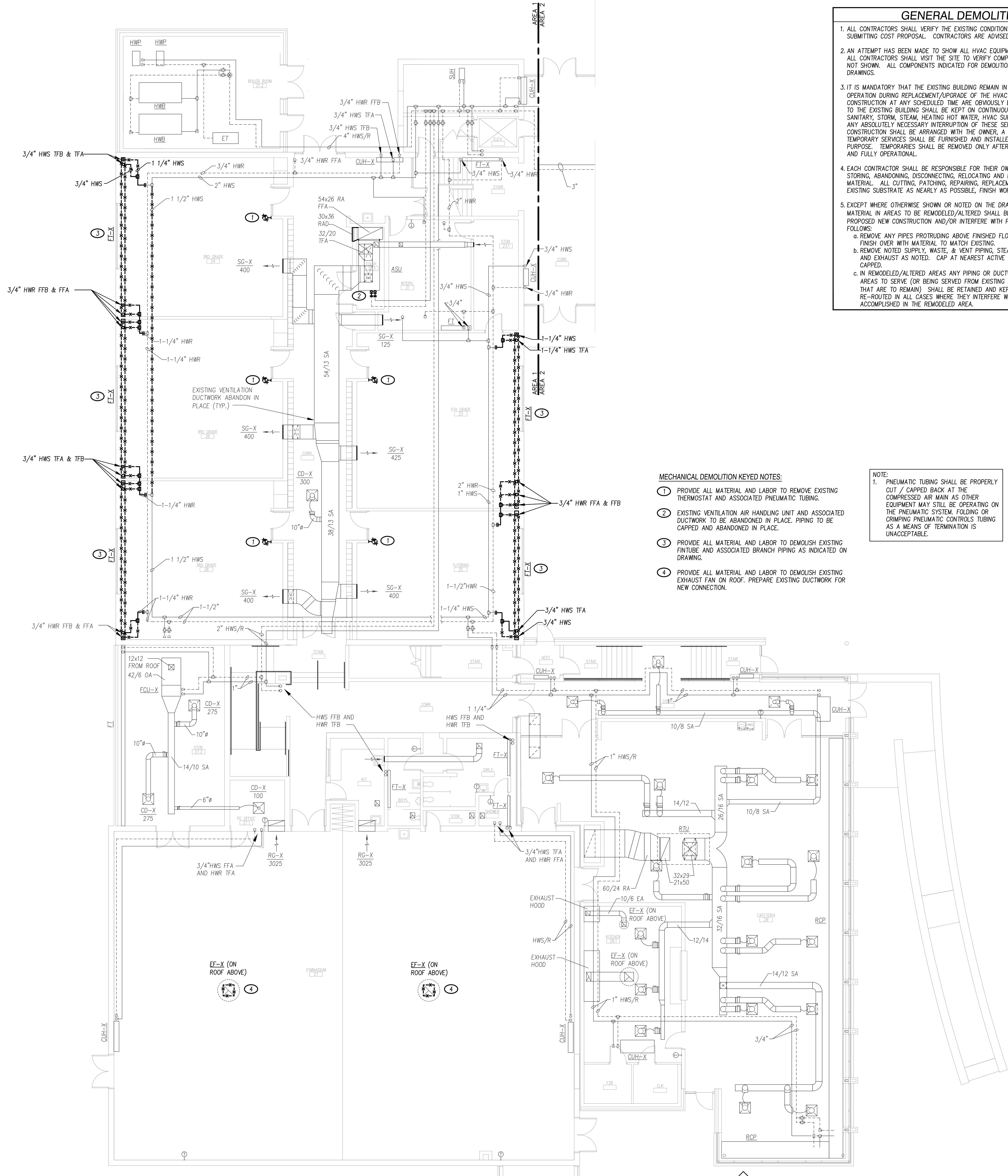
Revisions

No.	Date

SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title: TUNNEL PLAN - MECHANICAL DEMOLITION - AREA 2

Proj. No.:	2249
Date:	7/15/2022
Drawn:	LSM
Approved:	RCR
Sheet No.:	MD102



1 FIRST FLOOR PLAN - MECHANICAL DEMOLITION - AREA 1

SCALE: 1/8" = 1'-0"

NORTH

GENERAL DEMOLITION NOTES:

1. ALL CONTRACTORS SHALL VERIFY THE EXISTING CONDITIONS AT THE PROJECT SITE BEFORE SUBMITTING COST PROPOSAL. CONTRACTORS ARE ADVISED THAT ALL LOCATIONS ARE APPROXIMATE.
2. AN ATTEMPT HAS BEEN MADE TO SHOW ALL HVAC EQUIPMENT, PIPING, DUCTWORK AND DIFFUSERS. ALL CONTRACTORS SHALL VISIT THE SITE TO VERIFY COMPONENTS, LOCATIONS AND SIZES SHOWN OR NOT SHOWN. ALL COMPONENTS INDICATED FOR DEMOLITION NEED TO BE REMOVED AS NOTED ON THE DRAWINGS.
3. IT IS MANDATORY THAT THE EXISTING BUILDING REMAIN IN CONTINUOUS AND UNINTERRUPTED OPERATION DURING REPLACEMENT/UPGRADE OF THE HVAC SYSTEM. THE SPECIFIC AREAS UNDER CONSTRUCTION AT ANY SCHEDULED TIME ARE OBVIOUSLY EXCLUSIVE OF THE STATEMENT. SERVICES TO THE EXISTING BUILDING SHALL BE KEPT ON CONTINUOUS OPERATION INCLUDED DOMESTIC WATER, SANITARY, STORM, STEAM, HEATING HOT WATER, HVAC SUPPLY, RETURN AND EXHAUST DUCTWORK. ANY ABSOLUTELY NECESSARY INTERRUPTION OF THESE SERVICES TO ACCOMPLISH PROJECT CONSTRUCTION SHALL BE ARRANGED WITH THE OWNER, A MINIMUM OF TWO WEEKS IN ADVANCE. TEMPORARY SERVICES SHALL BE FURNISHED AND INSTALLED WHERE NECESSARY TO ACCOMPLISH THIS PURPOSE. TEMPORARIES SHALL BE REMOVED ONLY AFTER NEW PERMANENT SERVICES ARE INSTALLED AND FULLY OPERATIONAL.
4. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OWN DEMOLITION, REMOVAL, CAPPING, STORING, ABANDONING, DISCONNECTING, RELOCATING AND RECONNECTION OF EXISTING EQUIPMENT AND MATERIAL. ALL CUTTING, PATCHING, REPAIRING, REPLACEMENT AND REFINISHING SHALL MATCH EXISTING SUBSTRATE AS NEARLY AS POSSIBLE, FINISH WORK BY OTHERS.
5. EXCEPT WHERE OTHERWISE SHOWN OR NOTED ON THE DRAWINGS, ALL EXISTING EQUIPMENT AND MATERIAL IN AREAS TO BE REMODELED/ALTERED SHALL BE REMOVED WHERE THEY INTERFERE WITH PROPOSED NEW CONSTRUCTION AND/OR INTERFERE WITH PROPOSED USAGE OF SPACE BY OWNER AS FOLLOWS:
   a. REMOVE ANY PIPES PROTRUDING ABOVE FINISHED FLOOR OR THROUGH WALL AND CAP AND FINISH OVER WITH MATERIAL TO MATCH EXISTING.
   b. REMOVE NOTED SUPPLY, WASTE, & VENT PIPING, STEAM, CHILLED WATER, HVAC SUPPLY, RETURN AND EXHAUST AS NOTED. CAP AT NEAREST ACTIVE MAIN. SUPPLY AND RETURN MAINS TO BE CAPPED.
   c. IN REMODELED/ALTERED AREAS ANY PIPING OR DUCTWORK PASSING THROUGH THE REMODELED AREAS TO SERVE (OR BEING SERVED FROM EXISTING ADJACENT, REMOTE, OR SURROUNDING ARE THAT ARE TO REMAIN) SHALL BE RETAINED AND KEPT OPERATIONAL AND SHALL BE RE-ROUTED IN ALL CASES WHERE THEY INTERFERE WITH ANY NEW WORK OR USAGE TO BE ACCOMPLISHED IN THE REMODELED AREA.

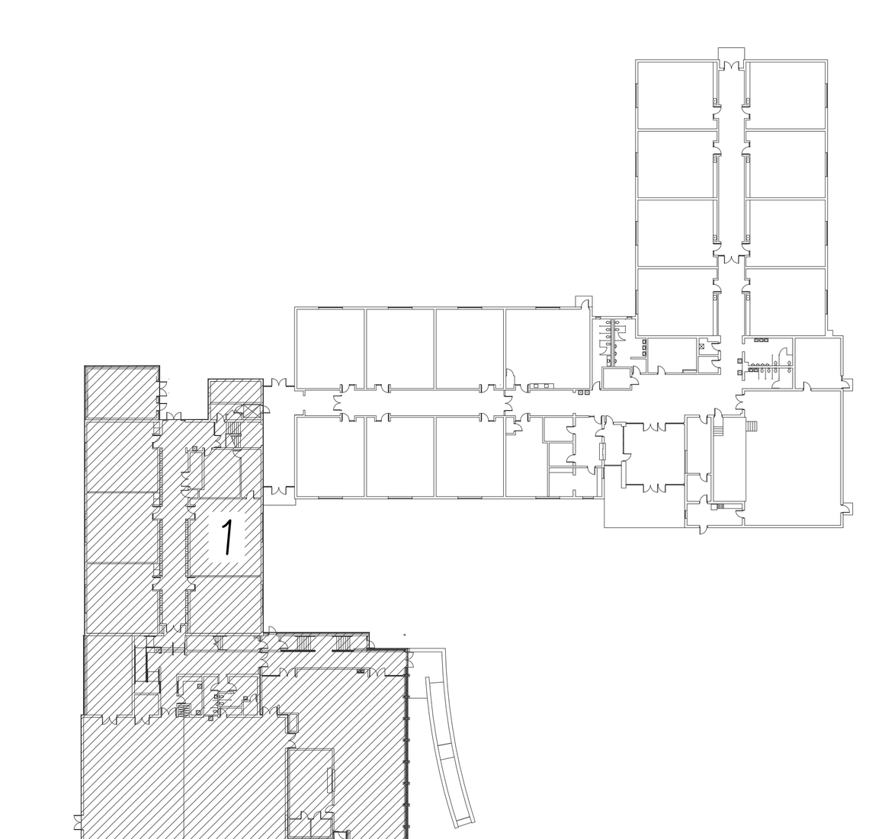
MECHANICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	DUCT SECTION, POSITIVE PRESSURE (TOWARD)
	DUCT SECTION, POSITIVE PRESSURE (AWAY)
	DUCT SECTION, NEGATIVE PRESSURE (TOWARD)
	DUCT SECTION, NEGATIVE PRESSURE (AWAY)
24/12	RECTANGULAR DUCT SIZE – FIRST FIGURE IS SIDE SHOWN.
OR	TURNING VANES OR RADIUSED ELBOW
M	MOTORIZED DAMPER
BD	BALANCE DAMPER
	FLEXIBLE DUCT CONNECTION
	FLEXIBLE DUCT (FLEX DIAMETER = DIFFUSER NECK DIAMETER)
	HIGH EFFICIENCY RECTANGULAR TAKE–OFF WITH VOLUME DAMPER.
	HIGH EFFICIENCY RECTANGULAR TO ROUND DUCT TAKE–OFF WITH VOLUME DAMPER.
	BRANCH DUCT TAKE–OFF WITH VOLUME DAMPER.
ATD	AIR TRANSFER DUCT OPENING (24" X 12")
	RECTANGULAR TO ROUND TRANSITION (NOTE: THIS SHALL NOT BE A BLANK OFF WITH A STARTING COLLAR)
	INCLINED RISE (IN DIRECTION OF AIR FLOW)
	INCLINED DROP (IN DIRECTION OF AIR FLOW)
FD	FIRE DAMPER (TYPE–B)
SA	SUPPLY AIR
RA	RETURN AIR
EA	EXHAUST AIR
OA	OUTDOOR AIR
	PIPE CAP/FLANGE
T	DDC TEMPERATURE SENSOR
SP	DUCT STATIC PRESSURE SENSOR
–x––x––x–	EXISTING TO BE REMOVED
	NEW CONNECTION TO EXISTING
L#	LINTEL (SEE STRUCTURAL DRAWINGS)
S#	STRUCTURAL FRAMING (SEE STRUCTURAL DRAWINGS)
	BALANCE VALVE
	CONTROL VALVE (TWO–WAY)
	CONTROL VALVE (3–WAY)
	BALL VALVE
	MANUAL AIR VENT
	ELBOW UP
	ELBOW DOWN
	TEE UP
	TEE DOWN
	UNION (SCREWED)
D	DRAIN LINE
HWS	HEATING HOT WATER SUPPLY
HWR	HEATING HOT WATER RETURN

MECHANICAL DEMOLITION KEYED NOTES:

1. PROVIDE ALL MATERIAL AND LABOR TO REMOVE EXISTING THERMOSTAT AND ASSOCIATED PNEUMATIC TUBING.
2. EXISTING VENTILATION AIR HANDLING UNIT AND ASSOCIATED DUCTWORK TO BE ABANDONED IN PLACE. PIPING TO BE CAPPED AND ABANDONED IN PLACE.
3. PROVIDE ALL MATERIAL AND LABOR TO DEMOLISH EXISTING FINTUBE AND ASSOCIATED BRANCH PIPING AS INDICATED ON DRAWING.
4. PROVIDE ALL MATERIAL AND LABOR TO DEMOLISH EXISTING EXHAUST FAN ON ROOF. PREPARE EXISTING DUCTWORK FOR NEW CONNECTION.

NOTE:
1. PNEUMATIC TUBING SHALL BE PROPERLY CUT / CAPPED BACK AT THE COMPRESSED AIR MAIN AS OTHER EQUIPMENT MAY STILL BE OPERATING ON THE PNEUMATIC SYSTEM. FOLDING OR CRIMPING PNEUMATIC CONTROLS TUBING AS A MEANS OF TERMINATION IS UNACCEPTABLE.



KEY PLAN

SCALE: NOT TO SCALE

NORTH

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STATE OF ILLINOIS
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No.	Date	Revisions

SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title:
FIRST FLOOR PLAN - MECHANICAL DEMOLITION - AREA 1

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Date:	7/15/2022
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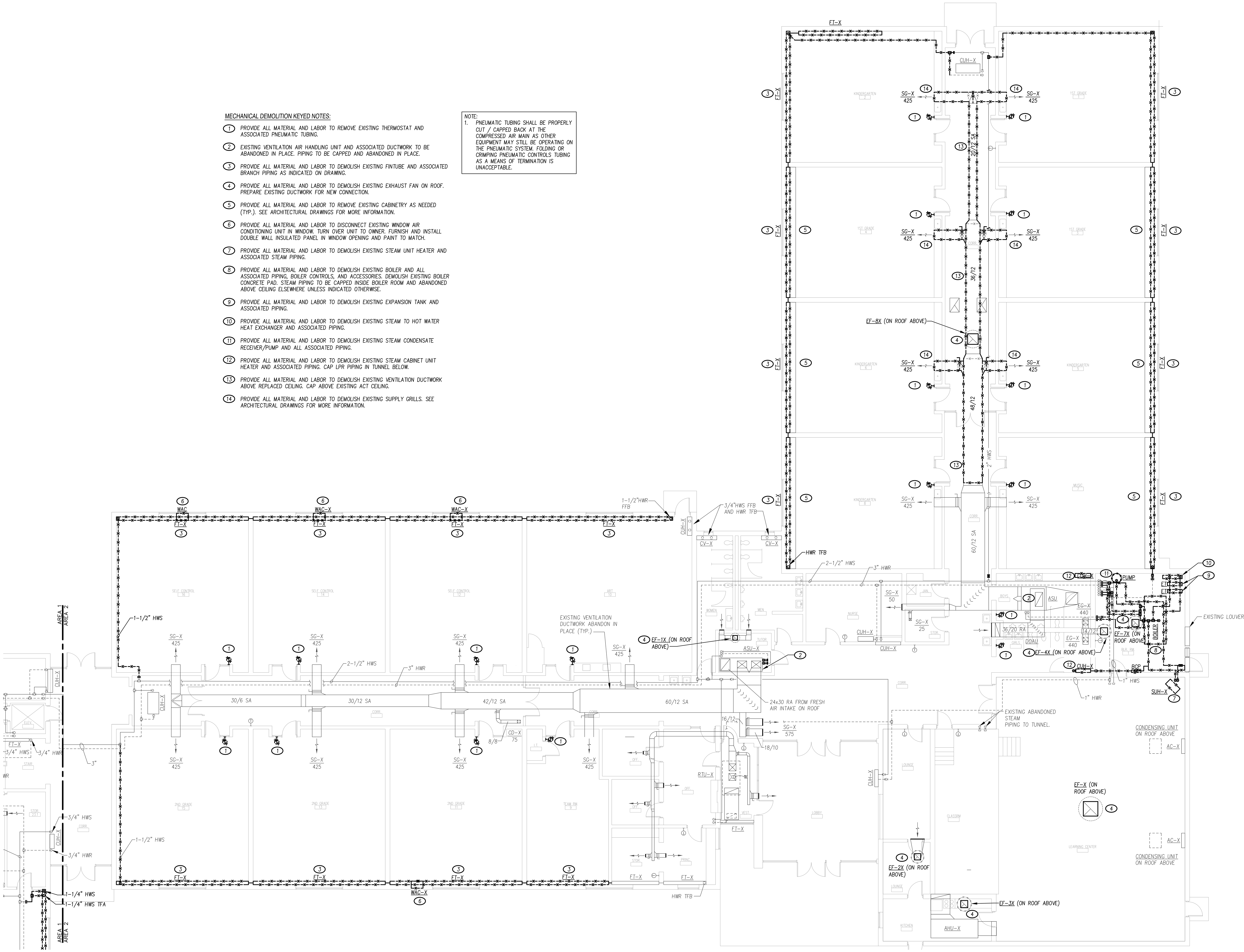
Approved:	RCR
Sheet No.:	MD111



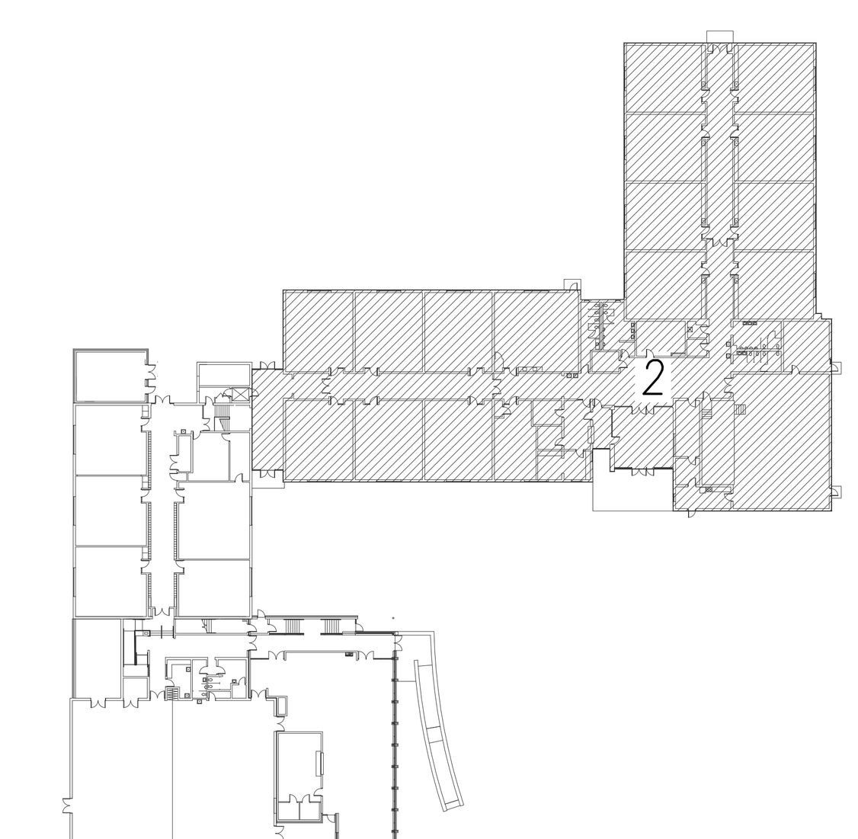
MECHANICAL DEMOLITION KEYED NOTES:

1. PROVIDE ALL MATERIAL AND LABOR TO REMOVE EXISTING THERMOSTAT AND ASSOCIATED PNEUMATIC TUBING.
2. EXISTING VENTILATION AIR HANDLING UNIT AND ASSOCIATED DUCTWORK TO BE ABANDONED IN PLACE. PIPING TO BE CAPPED AND ABANDONED IN PLACE.
3. PROVIDE ALL MATERIAL AND LABOR TO DEMOLISH EXISTING FINTUBE AND ASSOCIATED BRANCH PIPING AS INDICATED ON DRAWING.
4. PROVIDE ALL MATERIAL AND LABOR TO DEMOLISH EXISTING EXHAUST FAN ON ROOF. PREPARE EXISTING DUCTWORK FOR NEW CONNECTION.
5. PROVIDE ALL MATERIAL AND LABOR TO REMOVE EXISTING CABINETRY AS NEEDED (TYP.). SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
6. PROVIDE ALL MATERIAL AND LABOR TO DISCONNECT EXISTING WINDOW AIR CONDITIONING UNIT IN WINDOW. TURN OVER UNIT TO OWNER. FURNISH AND INSTALL DOUBLE WALL INSULATED PANEL IN WINDOW OPENING AND PAINT TO MATCH.
7. PROVIDE ALL MATERIAL AND LABOR TO DEMOLISH EXISTING STEAM UNIT HEATER AND ASSOCIATED STEAM PIPING.
8. PROVIDE ALL MATERIAL AND LABOR TO DEMOLISH EXISTING BOILER AND ALL ASSOCIATED PIPING, BOILER CONTROLS, AND ACCESSORIES. DEMOLISH EXISTING BOILER CONCRETE PAD. STEAM PIPING TO BE CAPPED INSIDE BOILER ROOM AND ABANDONED ABOVE CEILING ELSEWHERE UNLESS INDICATED OTHERWISE.
9. PROVIDE ALL MATERIAL AND LABOR TO DEMOLISH EXISTING EXPANSION TANK AND ASSOCIATED PIPING.
10. PROVIDE ALL MATERIAL AND LABOR TO DEMOLISH EXISTING STEAM TO HOT WATER HEAT EXCHANGER AND ASSOCIATED PIPING.
11. PROVIDE ALL MATERIAL AND LABOR TO DEMOLISH EXISTING STEAM CONDENSATE RECEIVER/PUMP AND ALL ASSOCIATED PIPING.
12. PROVIDE ALL MATERIAL AND LABOR TO DEMOLISH EXISTING STEAM CABINET UNIT HEATER AND ASSOCIATED PIPING. CAP LPR PIPING IN TUNNEL BELOW.
13. PROVIDE ALL MATERIAL AND LABOR TO DEMOLISH EXISTING VENTILATION DUCTWORK ABOVE REPLACED CEILING. CAP ABOVE EXISTING ACT CEILING.
14. PROVIDE ALL MATERIAL AND LABOR TO DEMOLISH EXISTING SUPPLY GRILLS. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

NOTE:
1. PNEUMATIC TUBING SHALL BE PROPERLY CUT / CAPPED BACK AT THE COMPRESSED AIR MAIN AS OTHER EQUIPMENT MAY STILL BE OPERATING ON THE PNEUMATIC SYSTEM. FOLDING OR CRIMPING PNEUMATIC CONTROLS TUBING AS A MEANS OF TERMINATION IS UNACCEPTABLE.

1 FIRST FLOOR PLAN - MECHANICAL DEMOLITION - AREA 2
SCALE: 1/8" = 1'-0"

NORTH



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DATE: 7/15/2022

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ROCKFORD, ILLINOIS

Sheet Title: FIRST FLOOR PLAN - MECHANICAL DEMOLITION - AREA 2

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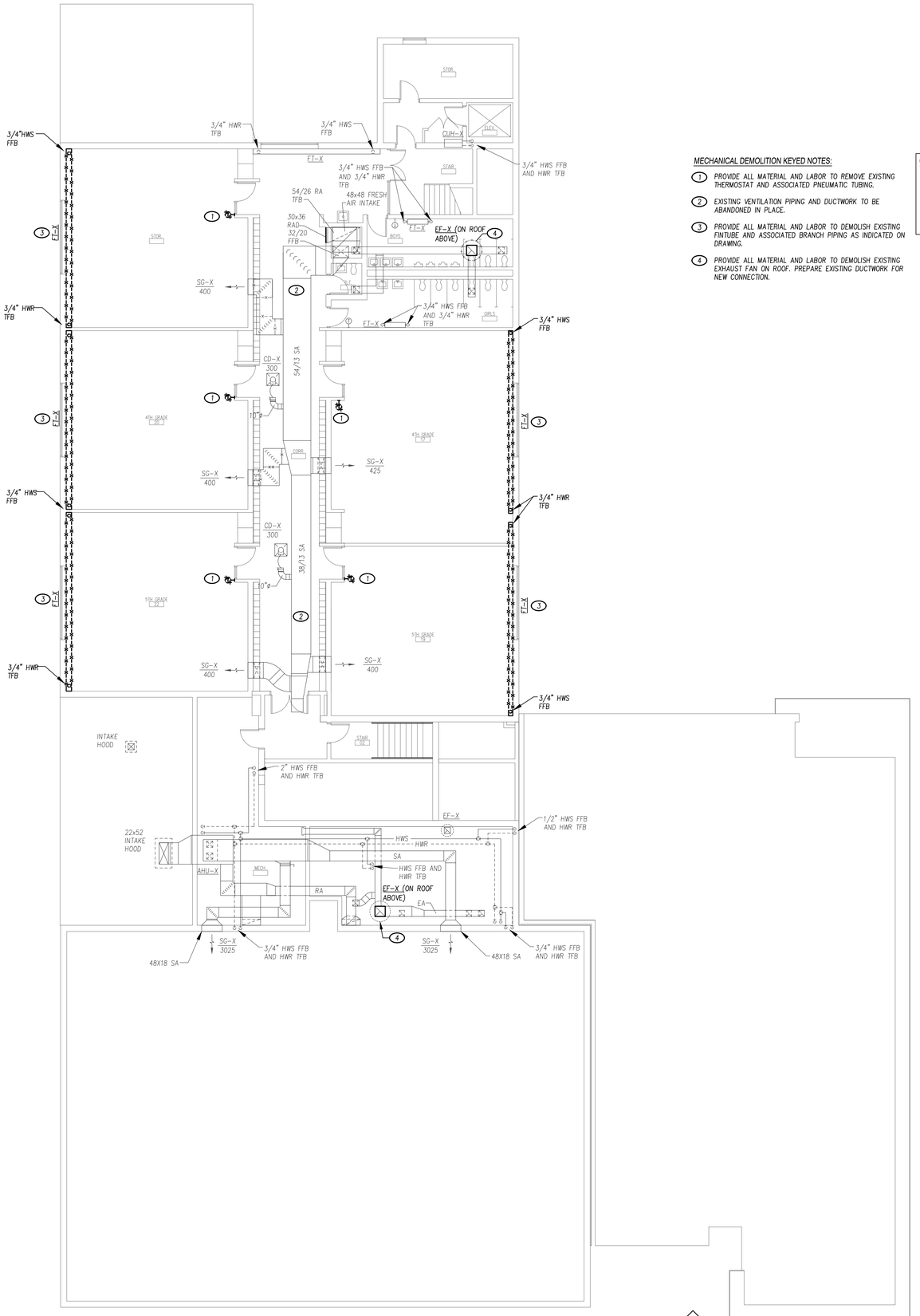


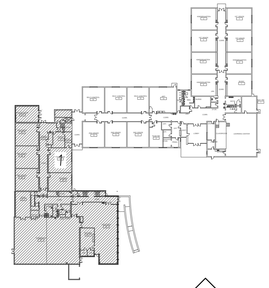
1 SECOND FLOOR PLAN - MECHANICAL DEMOLITION - AREA 1
SCALE: 1/8" = 1'-0"

NORTH

MECHANICAL DEMOLITION KEYED NOTES:

1. PROVIDE ALL MATERIAL AND LABOR TO REMOVE EXISTING THERMOSTAT AND ASSOCIATED PNEUMATIC TUBING.
2. EXISTING VENTILATION PIPING AND DUCTWORK TO BE ABANDONED IN PLACE.
3. PROVIDE ALL MATERIAL AND LABOR TO DEMOLISH EXISTING FINTUBE AND ASSOCIATED BRANCH PIPING AS INDICATED ON DRAWING.
4. PROVIDE ALL MATERIAL AND LABOR TO DEMOLISH EXISTING EXHAUST FAN ON ROOF. PREPARE EXISTING DUCTWORK FOR NEW CONNECTION.

NOTE:
1. PNEUMATIC TUBING SHALL BE PROPERLY CUT / CAPPED BACK AT THE COMPRESSED AIR MAIN AS OTHER EQUIPMENT MAY STILL BE OPERATING ON THE PNEUMATIC SYSTEM. FOLDING OR CRIMPING PNEUMATIC CONTROLS TUBING AS A MEANS OF TERMINATION IS UNACCEPTABLE.



KEY PLAN
SCALE: NOT TO SCALE

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STATE OF ILLINOIS
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No.	Date	Revisions

SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title:
SECOND FLOOR PLAN - MECHANICAL DEMOLITION - AREA 1

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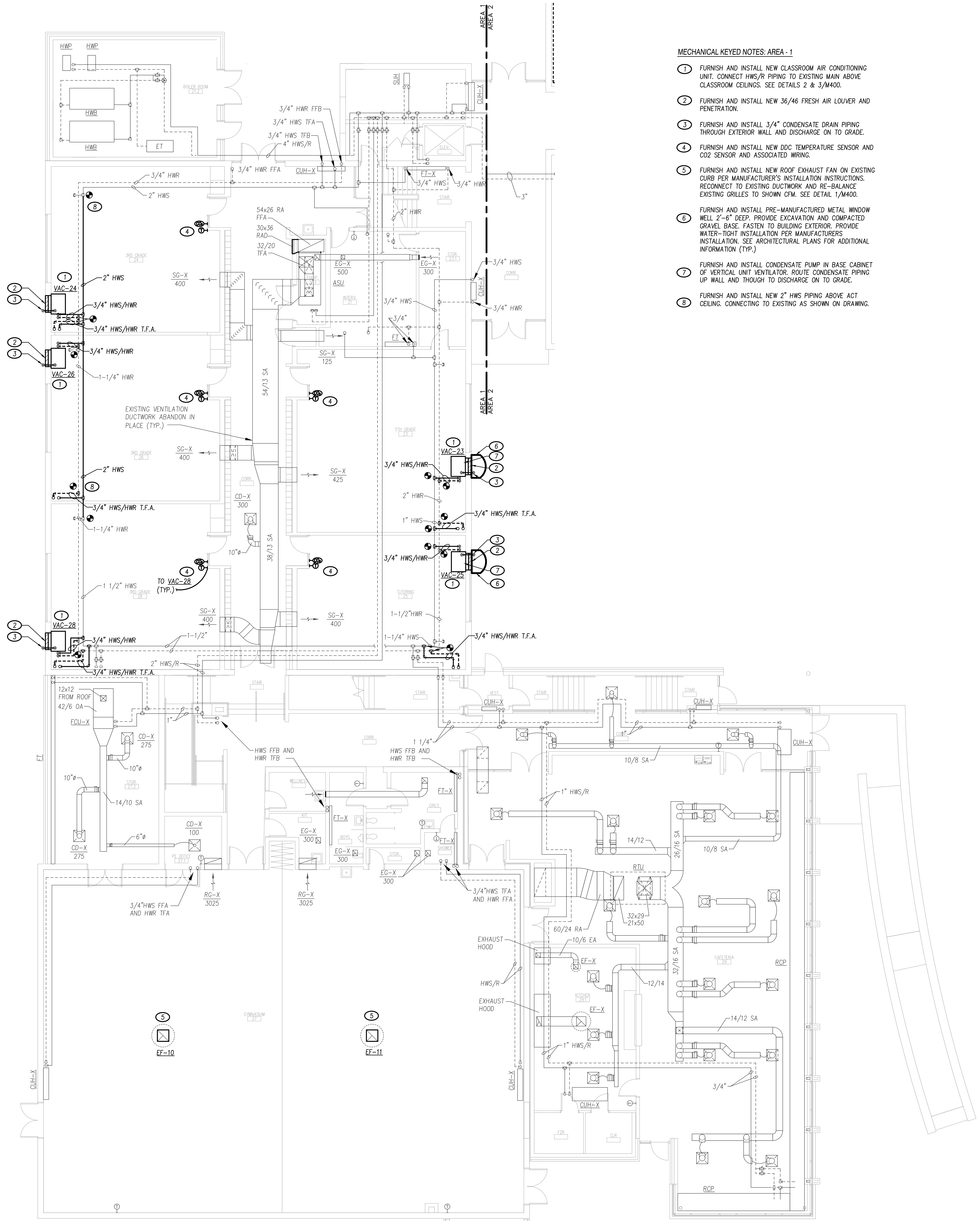


1 FIRST FLOOR PLAN - MECHANICAL NEW WORK - AREA 1
SCALE: 1/8" = 1'-0"

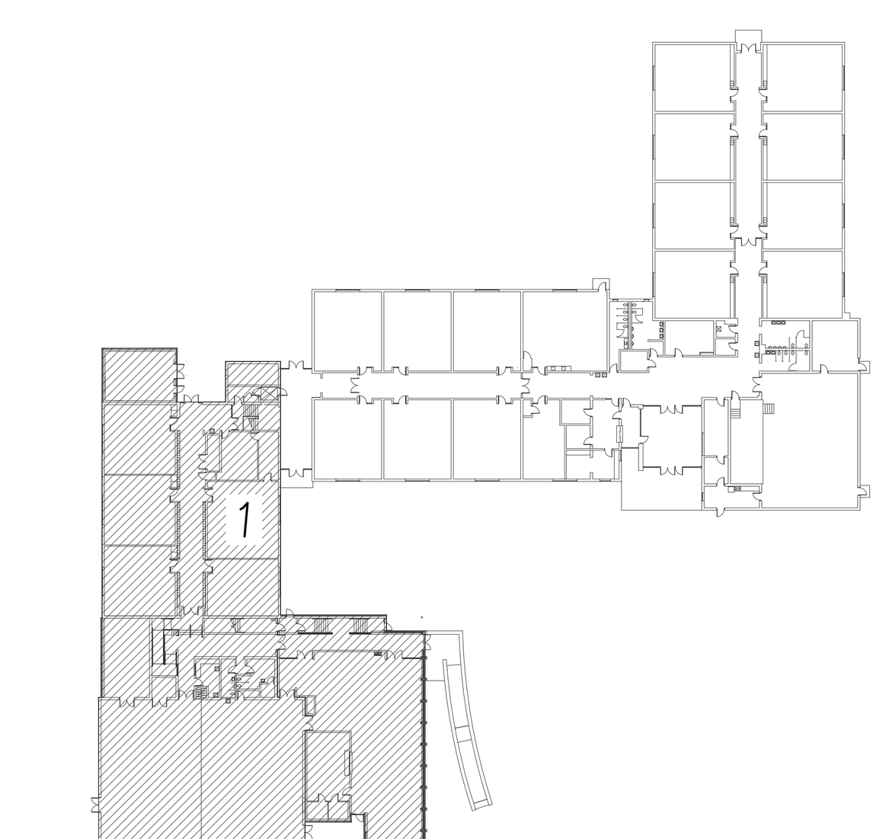
NORTH

MECHANICAL KEYED NOTES: AREA - 1

1. FURNISH AND INSTALL NEW CLASSROOM AIR CONDITIONING UNIT. CONNECT HWS/R PIPING TO EXISTING MAIN ABOVE CLASSROOM CEILINGS. SEE DETAILS 2 & 3/M400.
2. FURNISH AND INSTALL NEW 36/46 FRESH AIR LOUVER AND PENETRATION.
3. FURNISH AND INSTALL 3/4" CONDENSATE DRAIN PIPING THROUGH EXTERIOR WALL AND DISCHARGE ON TO GRADE.
4. FURNISH AND INSTALL NEW DDC TEMPERATURE SENSOR AND CO2 SENSOR AND ASSOCIATED WIRING.
5. FURNISH AND INSTALL NEW ROOF EXHAUST FAN ON EXISTING CURB PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. RECONNECT TO EXISTING DUCTWORK AND RE-BALANCE EXISTING GRILLES TO SHOWN CFM. SEE DETAIL 1/M400.
6. FURNISH AND INSTALL PRE-MANUFACTURED METAL WINDOW WELL 2'-6" DEEP. PROVIDE EXCAVATION AND COMPACTED GRAVEL BASE. FASTEN TO BUILDING EXTERIOR. PROVIDE WATER-TIGHT INSTALLATION PER MANUFACTURERS INSTALLATION. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION (TYP.)
7. FURNISH AND INSTALL CONDENSATE PUMP IN BASE CABINET OF VERTICAL UNIT VENTILATOR. ROUTE CONDENSATE PIPING UP WALL AND THOUGH TO DISCHARGE ON TO GRADE.
8. FURNISH AND INSTALL NEW 2" HWS PIPING ABOVE ACT CEILING. CONNECTING TO EXISTING AS SHOWN ON DRAWING.

GENERAL MECHANICAL NOTES:

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE HVAC SYSTEMS AS INDICATED ON DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY MOST CURRENT INTERNATIONAL MECHANICAL CODE AND ANY APPLICABLE LOCAL CODES.
2. CONTRACTOR SHALL VISIT THE JOB SITE AND EXAMINE THE DRAWINGS OF OTHER TRADES PRIOR TO BIDDING TO THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS AND THE SCOPE OF THE PROJECT. FAILURE TO DO SO DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO UNDERSTAND THE SCOPE OR OF UNDERSTANDING ANY FIELD CONDITIONS WHICH COULD BE REASONABLY EXPECTED TO BE KNOWN BY A THOROUGH INVESTIGATION.
3. IT IS NOT INTENDED THAT THE DRAWINGS SHOW EVERY DUCT, FITTING, TRANSITION, DAMPER, ETC., AND IT IS UNDERSTOOD THAT WHILE THE DRAWINGS MUST BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES WILL PERMIT, THE PROPER INSTALLATION ACCORDING TO THE TRUE INTENT AND MEANING OF THE DRAWINGS, LOCAL CODES AND STANDARD PRACTICES SHALL BE PROVIDED. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION. REPORT ANY PROBLEMS OR CONFLICTS TO THE OWNER OR ENGINEER.
4. ANY MINOR CHANGES IN THE LOCATION OF EQUIPMENT, DUCTS, PIPE CONTROL DEVICES, ETC., FROM THOSE LOCATIONS SHOWN ON THE DRAWINGS SHALL BE MADE WITHOUT EXTRA COST IF SO DIRECTED BY THE OWNERS REPRESENTATIVE OR ENGINEER BEFORE THE INSTALLATION IS MADE. A MINOR CHANGE IN LOCATION SHALL BE CONSIDERED TO BE WITHIN 6'-0" OF THE ORIGINALLY INDICATED LOCATIONS.
5. VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS. VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.
6. WHERE MOUNTING HEIGHTS ARE NOT DETAILED OR DIMENSIONED, INSTALL SYSTEMS, MATERIALS AND EQUIPMENT TO PROVIDE THE MAXIMUM HEADROOM POSSIBLE.
7. INSTALL SYSTEMS, MATERIALS AND EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS WHERE INSTALLED EXPOSED IN FINISHED SPACES AND GIVING RIGHT-OF-WAY PRIORITY TO SYSTEMS REQUIRED TO BE INSTALLED AT A SPECIFIED SLOPE.
8. INSTALL ALL HVAC EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
9. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING AND CONTROL CONDUIT SHALL BE FIRE STOPPED WITH AN APPROVED FIRE STOP MATERIAL.
10. PROVIDE ACCESS DOORS IN DUCTWORK OR WALLS/CEILING FOR OPERATION, ADJUSTMENT, AND MAINTENANCE OF ALL FANS, VALVES, COILS, AND MECHANICAL EQUIPMENT. COILS LOCATED IN DUCTWORK TO BE PROVIDED WITH ACCESS DOORS ON OUTLET SIDE OF COIL.
11. LOCATIONS AND SIZES OF ALL FLOOR AND WALL OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED AND THE OWNER.
12. CONTRACTOR SHALL COORDINATE CEILING DIFFUSER/GRILLE/REGISTER LOCATIONS WITH LIGHTING, FIRE ALARM EQUIPMENT AND FIRE SUPPRESSION SYSTEMS.
13. WHERE DEMOLITION WORK OCCURS, CONTRACTOR SHALL PATCH AND SEAL ALL WALLS, FLOORS AND CEILINGS TO MATCH EXISTING. CONTRACTOR SHALL VERIFY WITH OWNER ALL PATCHING MATERIALS AND INSTALLATION METHODS.
14. VENTILATING CONTRACTOR SHALL PROVIDE MANUAL BALANCE DAMPERS IN ALL BRANCH TAKE-OFFS TO SUPPLY DIFFUSERS. PROVIDE ADDITIONAL MANUAL BALANCE DAMPERS IN MAIN AND SUB-MAIN DUCTS AS REQUIRED TO ENSURE THE SUPPLY AND RETURN AIR SYSTEMS CAN BE BALANCED TO THE SPECIFIED DESIGN AIRFLOW.
15. IN AREAS WHERE A CEILING GRID EXISTS, THE VENTILATING CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF EXISTING CEILING GRID AND TILES AS NECESSARY FOR INSTALLATION OF VENTILATING WORK. ANY PORTION OF THE EXISTING TILES OR GRID WHICH BECOME DAMAGED DURING REMOVAL SHALL BE REPLACED BY THE VENTILATING CONTRACTOR.
16. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, FLANGES AND OTHER APPARATUS REQUIRING ACCESS ARE ACCESSIBLE.



KEY PLAN
SCALE: NOT TO SCALE

NORTH

DATE: 7/15/2022

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Revisions

No.	Date	Revisions

SPRING CREEK ELEMENTARY SCHOOL
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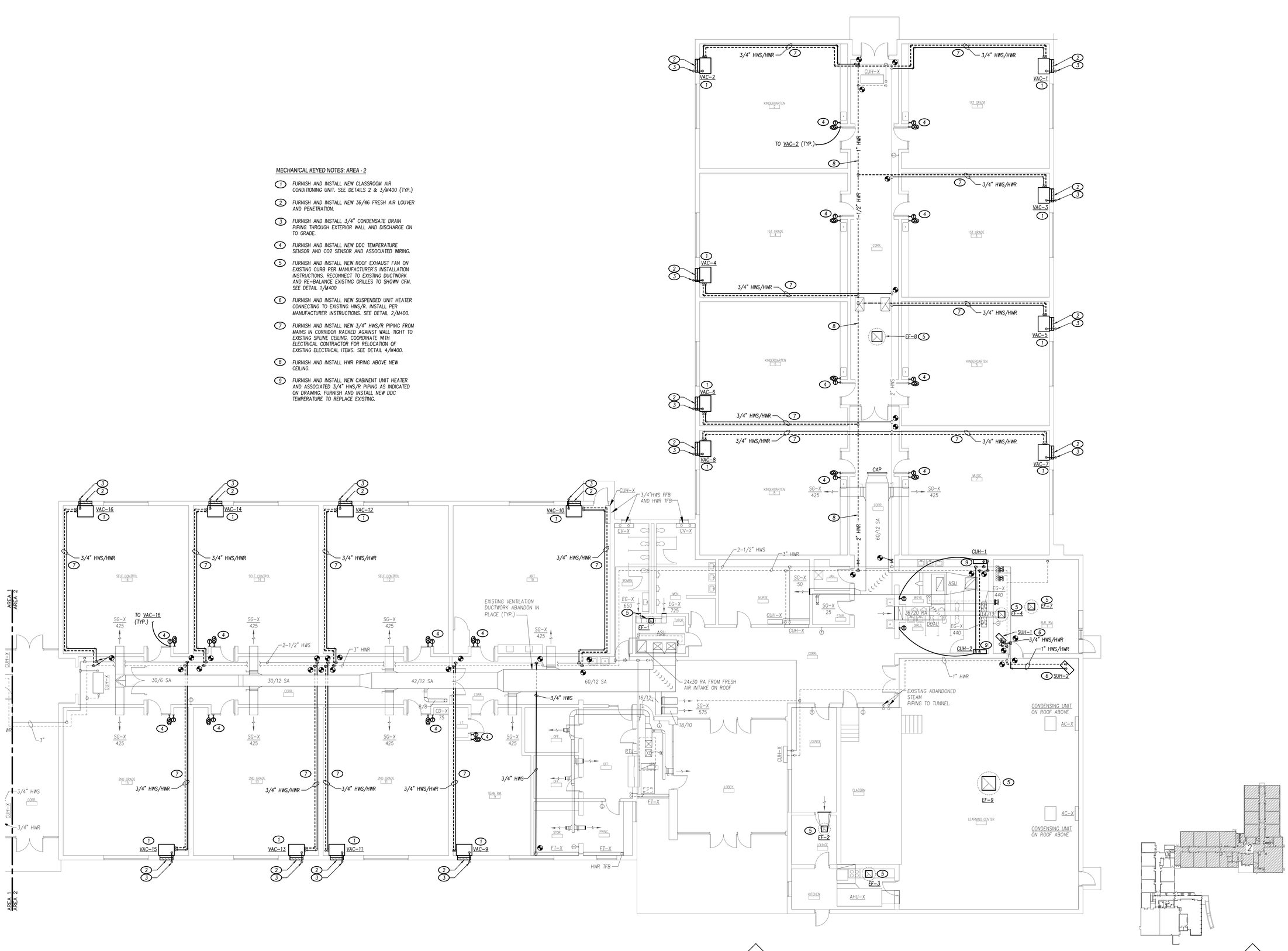
Sheet Title:
FIRST FLOOR PLAN - MECHANICAL NEW WORK - AREA 1

Proj. No.:	2249
Date:	7/15/2022
Drawn:	LSM
Approved:	RCR
Sheet No.:	M111

MECHANICAL KEYED NOTES: AREA - 2

1. FURNISH AND INSTALL NEW CLASSROOM AIR CONDITIONING UNIT. SEE DETAILS 2 & 3/M400 (TYP.)
2. FURNISH AND INSTALL NEW 36/46 FRESH AIR LOUVER AND PENETRATION.
3. FURNISH AND INSTALL 3/4" CONDENSATE DRAIN PIPING THROUGH EXTERIOR WALL AND DISCHARGE ON TO GRADE.
4. FURNISH AND INSTALL NEW DDC TEMPERATURE SENSOR AND CO2 SENSOR AND ASSOCIATED WIRING.
5. FURNISH AND INSTALL NEW ROOF EXHAUST FAN ON EXISTING CURB PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. RECONNECT TO EXISTING DUCTWORK AND RE-BALANCE EXISTING GRILLES TO SHOWN CFM. SEE DETAIL 1/M400
6. FURNISH AND INSTALL NEW SUSPENDED UNIT HEATER CONNECTING TO EXISTING HWS/R. INSTALL PER MANUFACTURER INSTRUCTIONS. SEE DETAIL 2/M400.
7. FURNISH AND INSTALL NEW 3/4" HWS/R PIPING FROM MAINS IN CORRIDOR RACKED AGAINST WALL TIGHT TO EXISTING SPLINE CEILING. COORDINATE WITH ELECTRICAL CONTRACTOR FOR RELOCATION OF EXISTING ELECTRICAL ITEMS. SEE DETAIL 4/M400.
8. FURNISH AND INSTALL HWR PIPING ABOVE NEW CEILING.
9. FURNISH AND INSTALL NEW CABINENT UNIT HEATER AND ASSOCIATED 3/4" HWS/R PIPING AS INDICATED ON DRAWING. FURNISH AND INSTALL NEW DDC TEMPERATURE TO REPLACE EXISTING.



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

NORTH

KEY PLAN
SCALE: NOT TO SCALE

NORTH

REF: 062-056761
STATE OF ILLINOIS
PROFESSIONAL ENGINEER
DATE: 7/15/2022

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Revisions

No.	Date

SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title: FIRST FLOOR PLAN - MECHANICAL NEW WORK - AREA 2

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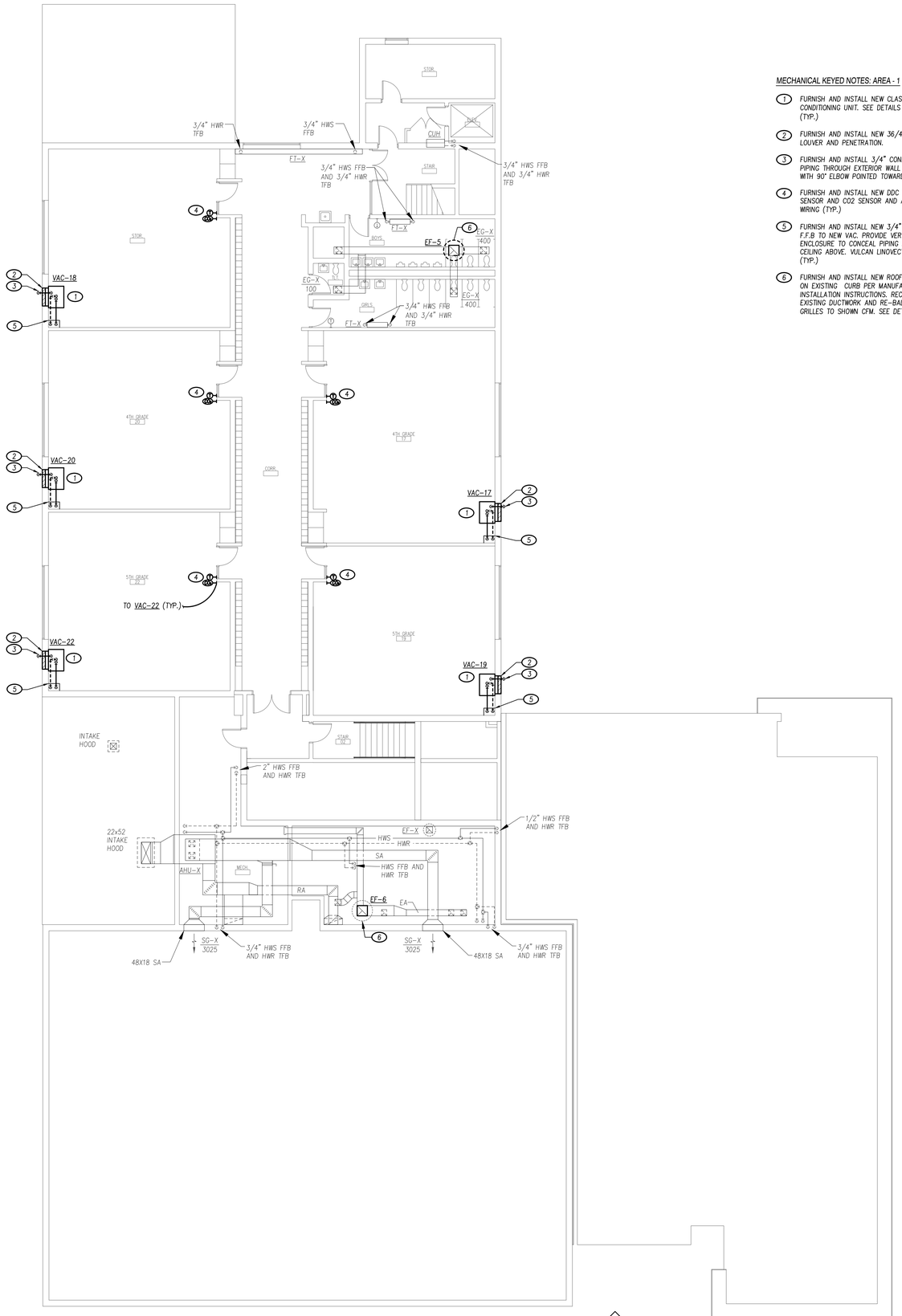
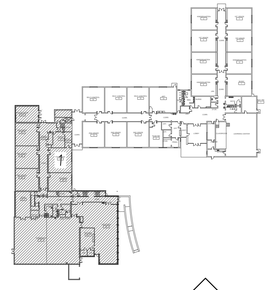


1 SECOND FLOOR PLAN - MECHANICAL NEW WORK - AREA 1
SCALE: 1/8" = 1'-0"

NORTH

MECHANICAL KEYED NOTES: AREA - 1

1. FURNISH AND INSTALL NEW CLASSROOM AIR CONDITIONING UNIT. SEE DETAILS 2 & 3/M400 (TYP.)
2. FURNISH AND INSTALL NEW 36/46 FRESH AIR LOUVER AND PENETRATION.
3. FURNISH AND INSTALL 3/4" CONDENSATE DRAIN PIPING THROUGH EXTERIOR WALL AND TERMINATE WITH 90° ELBOW POINTED TOWARD GRADE.
4. FURNISH AND INSTALL NEW DDC TEMPERATURE SENSOR AND CO2 SENSOR AND ASSOCIATED WIRING (TYP.)
5. FURNISH AND INSTALL NEW 3/4" HWS/R PIPING F.F.B TO NEW VAC. PROVIDE VERTICAL PIPING ENCLOSURE TO CONCEAL PIPING FROM FLOOR TO CEILING ABOVE. VULCAN LINOVECTOR II OR EQUAL (TYP.)
6. FURNISH AND INSTALL NEW ROOF EXHAUST FAN ON EXISTING CURB PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. RECONNECT TO EXISTING DUCTWORK AND RE-BALANCE EXISTING GRILLES TO SHOWN CFM. SEE DETAIL 1/M400.



KEY PLAN
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STATE OF ILLINOIS
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RENEWAL 11/30/2023

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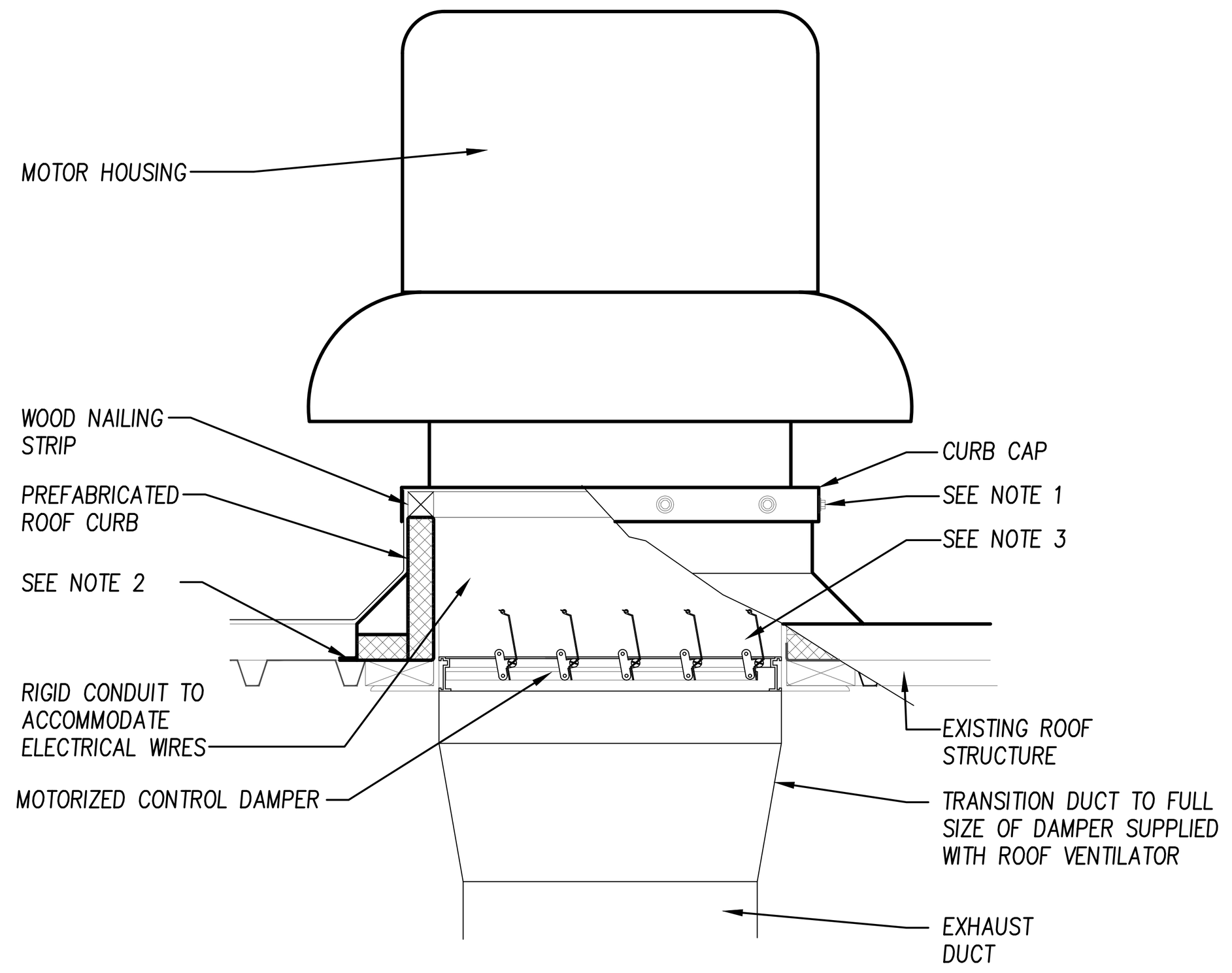
No.	Date	Revisions

SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title:
SECOND FLOOR PLAN - MECHANICAL NEW WORK - AREA 1

Proj. No.:	2249
Date:	7/15/2022
Drawn:	LSM
Approved:	RCR
Sheet No.:	M121

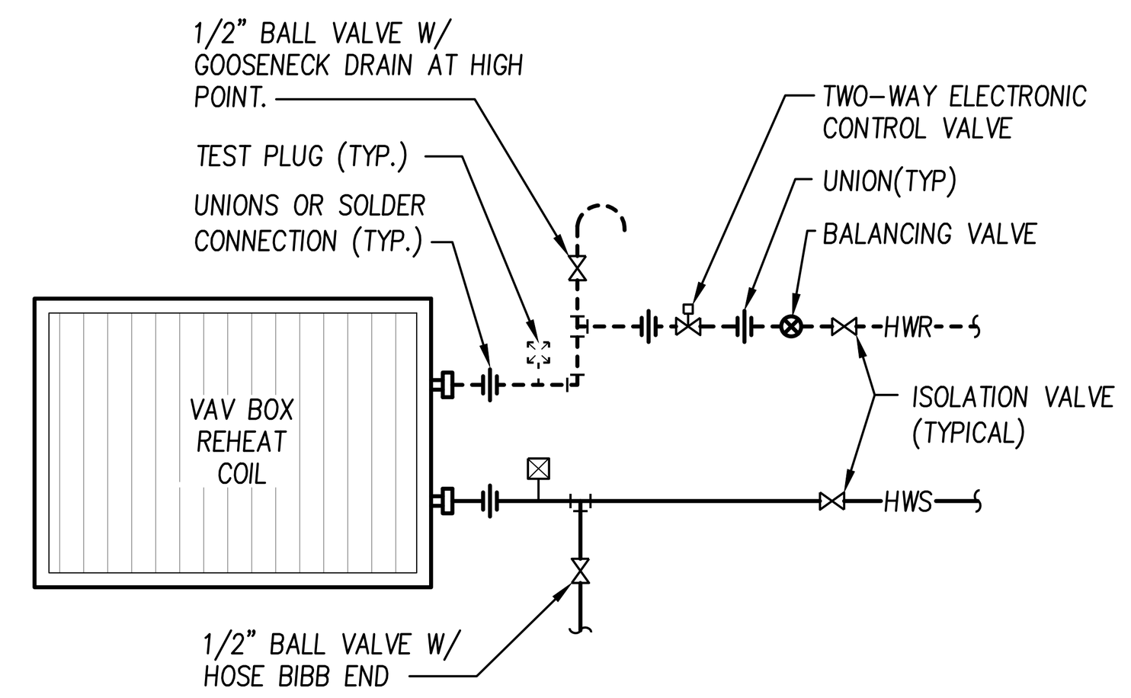


NOTE:

1. SECURE CURB CAP TO WOOD NAILING STRIP WITH 3/8" [10mm] CADMIUM PLATED LAG BOLTS NOT OVER 12" [305mm] ON CENTER.
2. SECURE ROOF CURB, DUCTWORK AND DAMPER TO ROOF WITH RUST RESISTANT BOLTS (METAL DECK AND BAR JOIST ROOF).
3. SIZE OF DUCT THROUGH ROOF SHALL NOT BE LARGER THAN CURB SUPPLIED WITH ROOF VENTILATOR.

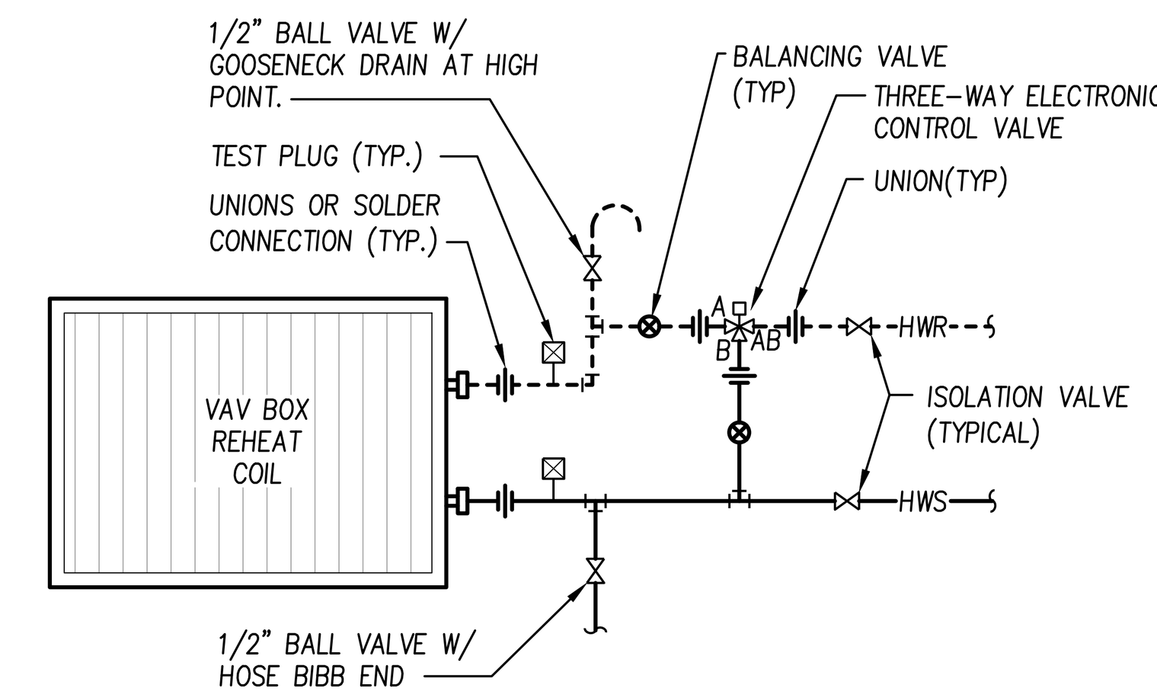
1 CENTRIFUGAL ROOF EXHAUST FAN

SCALE: NOT TO SCALE



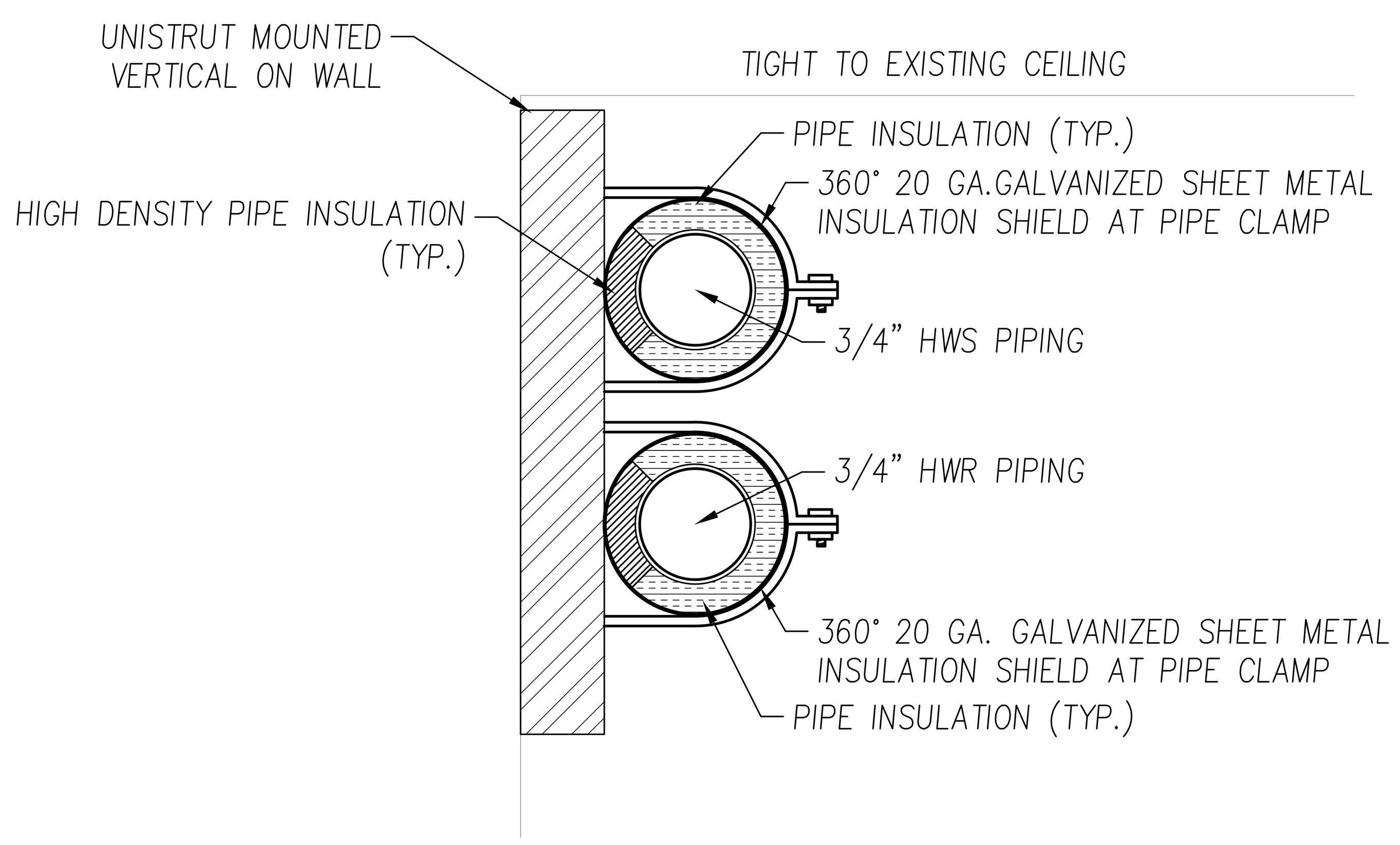
2 HOT WATER REHEAT COIL PIPING DETAIL

SCALE: NO SCALE



3 HOT WATER REHEAT COIL PIPING DETAIL (3-WAY VALVE)

SCALE: NO SCALE



4 HWS/R PIPE MOUNTING

SCALE: NOT TO SCALE

DATE: 7/15/2022

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Saavedra Group Architects

Revisions

No.	Date

SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title: MECHANICAL NOTES AND DETAILS

Proj. No.:	2249
Date:	7/15/2022
Drawn:	LSM
Approved:	RCR

Sheet No.: M400

PACKAGED CLASSROOM AIR CONDITIONING UNIT SCHEDULE

MARK	DESIGN BASIS		DESCRIPTION	UNIT DIMENSIONS			NOMINAL AIRFLOW CFM	OUTSIDE AIR CFM	COOLING COIL							HEATING COIL							ERV		MOTOR			REMARKS
	MAKE	MODEL / SIZE		LENGTH	HEIGHT	DEPTH			EAT (DB)	EAT (WB)	LAT (DB)	LAT (WB)	SYSTEM TYPE	TOTAL CAP. BTUH	SENSIBLE CAP. BTUH	EAT (F)	LAT (F)	EWT (F)	LWT (F)	TOTAL CAP. BTUH	FLUID TYPE	VALVE TYPE	FLOW GPM	TOTAL CAP. BTUH	SENSIBLE CAP. BTUH	HP	VOLTS	PHASE	
VAC-1	BARD	I36A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	1150	309	79.4	66.2	57.6	56.7	R-410A	34,700	27,081	50	95.7	160	120	57,000	WATER	2-WAY	2.85	53507	33277	1/2	208	3	
VAC-2	BARD	I36A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	1150	309	79.4	66.2	57.6	56.7	R-410A	34,700	27,081	50	95.7	160	120	57,000	WATER	2-WAY	2.85	53507	33277	1/2	208	3	
VAC-3	BARD	I36A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	1150	308	79.4	66.2	57.6	56.7	R-410A	34,700	27,081	50	95.7	160	120	57,000	WATER	2-WAY	2.85	53507	33277	1/2	208	3	
VAC-4	BARD	I36A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	1150	308	79.4	66.2	57.6	56.7	R-410A	34,700	27,081	50	95.7	160	120	57,000	WATER	2-WAY	2.85	53507	33277	1/2	208	3	
VAC-5	BARD	I30A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	900	308	79.9	66.6	58.8	57.0	R-410A	27,649	20,546	50	102.9	160	120	51,667	WATER	2-WAY	2.58	45550	26864	1/3	208	3	
VAC-6	BARD	I36A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	1150	308	79.4	66.2	57.6	56.7	R-410A	34,700	27,081	50	95.7	160	120	57,000	WATER	2-WAY	2.85	53507	33277	1/2	208	3	
VAC-7	BARD	I30A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	900	309	79.9	66.6	58.8	57.0	R-410A	27,649	20,546	50	102.9	160	120	51,667	WATER	3-WAY	2.58	45550	26864	1/3	208	3	
VAC-8	BARD	I36A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	1150	309	79.4	66.2	57.6	56.7	R-410A	34,700	27,081	50	95.7	160	120	57,000	WATER	3-WAY	2.85	53507	33277	1/2	208	3	
VAC-9	BARD	I30A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	900	361	79.9	66.6	58.8	57.0	R-410A	27,649	20,546	50	102.9	160	120	51,667	WATER	3-WAY	2.58	45550	26864	1/3	208	3	
VAC-10	BARD	I36A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	1150	338	79.4	66.2	57.6	56.7	R-410A	34,700	27,081	50	95.7	160	120	57,000	WATER	3-WAY	2.85	53507	33277	1/2	208	3	
VAC-11	BARD	I36A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	1150	310	79.4	66.2	57.6	56.7	R-410A	34,700	27,081	50	95.7	160	120	57,000	WATER	2-WAY	2.85	53507	33277	1/2	208	3	
VAC-12	BARD	I30A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	900	310	79.9	66.6	58.8	57.0	R-410A	27,649	20,546	50	102.9	160	120	51,667	WATER	2-WAY	2.58	45550	26864	1/3	208	3	
VAC-13	BARD	I36A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	1150	310	79.4	66.2	57.6	56.7	R-410A	34,700	27,081	50	95.7	160	120	57,000	WATER	2-WAY	2.85	53507	33277	1/2	208	3	
VAC-14	BARD	I30A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	900	310	79.9	66.6	58.8	57.0	R-410A	27,649	20,546	50	102.9	160	120	51,667	WATER	2-WAY	2.58	45550	26864	1/3	208	3	
VAC-15	BARD	I36A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	1150	310	79.4	66.2	57.6	56.7	R-410A	34,700	27,081	50	95.7	160	120	57,000	WATER	2-WAY	2.85	53507	33277	1/2	208	3	
VAC-16	BARD	I30A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	900	310	79.9	66.6	58.8	57.0	R-410A	27,649	20,546	50	102.9	160	120	51,667	WATER	2-WAY	2.58	45550	26864	1/3	208	3	
VAC-17	BARD	I36A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	1150	318	79.4	66.2	57.6	56.7	R-410A	34,700	27,081	50	95.7	160	120	57,000	WATER	2-WAY	2.85	53507	33277	1/2	208	3	
VAC-18	BARD	I30A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	900	300	79.9	66.6	58.8	57.0	R-410A	27,649	20,546	50	102.9	160	120	51,667	WATER	2-WAY	2.58	45550	26864	1/3	208	3	
VAC-19	BARD	I30A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	900	296	79.9	66.6	58.8	57.0	R-410A	27,649	20,546	50	102.9	160	120	51,667	WATER	2-WAY	2.58	45550	26864	1/3	208	3	
VAC-20	BARD	I30A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	900	300	79.9	66.6	58.8	57.0	R-410A	27,649	20,546	50	102.9	160	120	51,667	WATER	3-WAY	2.58	45550	26864	1/3	208	3	
VAC-22	BARD	I30A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	900	300	79.9	66.6	58.8	57.0	R-410A	27,649	20,546	50	102.9	160	120	51,667	WATER	2-WAY	2.58	45550	26864	1/3	208	3	
VAC-23	BARD	I30A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	900	312	79.9	66.6	58.8	57.0	R-410A	27,649	20,546	50	102.9	160	120	51,667	WATER	2-WAY	2.58	45550	26864	1/3	208	3	
VAC-24	BARD	I30A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	900	302	79.9	66.6	58.8	57.0	R-410A	27,649	20,546	50	102.9	160	120	51,667	WATER	2-WAY	2.58	45550	26864	1/3	208	3	
VAC-25	BARD	I30A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	900	282	79.9	66.6	58.8	57.0	R-410A	27,649	20,546	50	102.9	160	120	51,667	WATER	2-WAY	2.58	45550	26864	1/3	208	3	
VAC-26	BARD	I30A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	900	302	79.9	66.6	58.8	57.0	R-410A	27,649	20,546	50	102.9	160	120	51,667	WATER	2-WAY	2.58	45550	26864	1/3	208	3	
VAC-28	BARD	I30A1DB	I-TEC AIR CONDITIONER	31.4	94.0	47.6	900	302	79.9	66.6	58.8	57.0	R-410A	27,649	20,546	50	102.9	160	120	51,667	WATER	2-WAY	2.58	45550	26864	1/3	208	3	

NOTES:

1. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
2. PROVIDE LOUVER WALL CURB

EXHAUST FAN SCHEDULE

MARK	DESIGN BASIS		DESCRIPTION	DRIVE	PERFORMANCE			MOTOR			REMARKS
	MAKE	MODEL			AIRFLOW (CFM)	E.S.P. (IN. H2O)	R.P.M.	HP	VOLTS	PHASE	
EF-1	COOK	ACE-D	DOWNBLAST CENTRIFUGAL	DIRECT	1,375	0.25	1,075	1/6	115	1	SEE NOTES 1
EF-2	COOK	ACE-D	DOWNBLAST CENTRIFUGAL	DIRECT	2,075	0.25	1,550	1/2	115	1	SEE NOTES 1
EF-3	COOK	ACE-D	DOWNBLAST CENTRIFUGAL	DIRECT	2,075	0.25	1,550	1/2	115	1	SEE NOTES 1
EF-4	GREENHECK	G-120-B	DOWNBLAST CENTRIFUGAL	DIRECT	880	0.25	1,140	1/6	115	1	SEE NOTES 1
EF-5	COOK	ACE-D	DOWNBLAST CENTRIFUGAL	DIRECT	1,620	0.25	1,300	1/2	115	1	SEE NOTES 1
EF-6	COOK	ACE-D	DOWNBLAST CENTRIFUGAL	DIRECT	1,620	0.25	1,300	1/2	115	1	SEE NOTES 1
EF-7	GREENHECK	G-070-D	DOWNBLAST CENTRIFUGAL	DIRECT	200	0.25	1,550	1/30	115	1	SEE NOTES 1
EF-8	GREENHECK	GB260	DOWNBLAST CENTRIFUGAL	BELT	5,075	0.125	431	1/2	115	1	SEE NOTES 1
EF-9	GREENHECK	GB260	DOWNBLAST CENTRIFUGAL	BELT	5,075	0.125	431	1/2	115	1	SEE NOTES 1
EF-10	GREENHECK	GB220	DOWNBLAST CENTRIFUGAL	BELT	3,900	0.25	583	1/2	115	1	SEE NOTES 1
EF-11	GREENHECK	GB220	DOWNBLAST CENTRIFUGAL	BELT	3,900	0.25	583	1/2	115	1	SEE NOTES 1

NOTES:

1. PROVIDE SINGLE POINT ELECTRICAL CONNECTION AND FACTORY MOUNTED DISCONNECT

SUSPENDED UNIT HEATER SCHEDULE

MARK	DESIGN BASIS		DESCRIPTION	DESIGN AIRFLOW CFM	HEATING CAPACITY (BTUH)	HOT WATER (GPM)	ELECTRICAL DATA				REMARKS
	MAKE	MODEL / SERIES					MTR HP	VOLTS	PHASE	HZ	
SUH-1	VULCAN	HV-108B	HORIZONTAL UNIT HEATER	1,800	46,526	2.3	1/12	115	1	60	SEE NOTES 1, 2, & 3
SUH-2	MODINE	HC 165	HORIZONTAL UNIT HEATER	3240	130900	13.6	1/3	115	1	60	SEE NOTES 1, 2, & 3

NOTES:

1. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
2. HEATING CAPACITY IS BASED ON 160 DEG EWT AND 120 DEG LWT
3. PROVIDE VARIABLE SPEED SWITCH
4. PROVIDE 3-WAY VALVE INSTALLATION PER DETAIL 3/M400.

CABINET UNIT HEATER SCHEDULE

MARK	DESIGN BASIS		DESCRIPTION	DESIGN AIRFLOW CFM	HEATING CAPACITY (BTUH)	HOT WATER (GPM)	EWT (F)	LWT (F)	EAT (F)	LAT (F)	FLUID P.D. FT. H2O	ELECTRICAL DATA					REMARKS
	MAKE	MODEL / SERIES										MOTOR POWER (W)	AMPS MCA	VOLTS	PHASE	HZ	
CUH-1	TRANE (OR EQUAL)	FFCB04 (OR EQUAL)	HORIZONTAL CONCEALED HOT WATER CABINET UNIT HEATER	460	12,900	0.4	150.0	70.0	60.0	85.7	0.29	210	2.63	120	1	60	SEE NOTES 1 & 2
CUH-2	TRANE (OR EQUAL)	FFCB04 (OR EQUAL)	HORIZONTAL CONCEALED HOT WATER CABINET UNIT HEATER	460	12,900	0.4	150.0	70.0	60.0	85.7	0.29	210	2.63	120	1	60	SEE NOTES 1 & 2

NOTES:

1. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
2. PROVIDE 1" THROWAWAY FILTER

REF 052-056761
DATE: 7/15/2022

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Revisions

No.	Date

SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title: MECHANICAL NOTES AND SCHEDULES

Proj. No.: 2249
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Drawn: LSM
Approved: RCR
Sheet No.: M500

1 FIRST FLOOR PLAN - ELECTRICAL DEMOLITION - AREA 1
SCALE: 1/8" = 1'-0"

NORTH

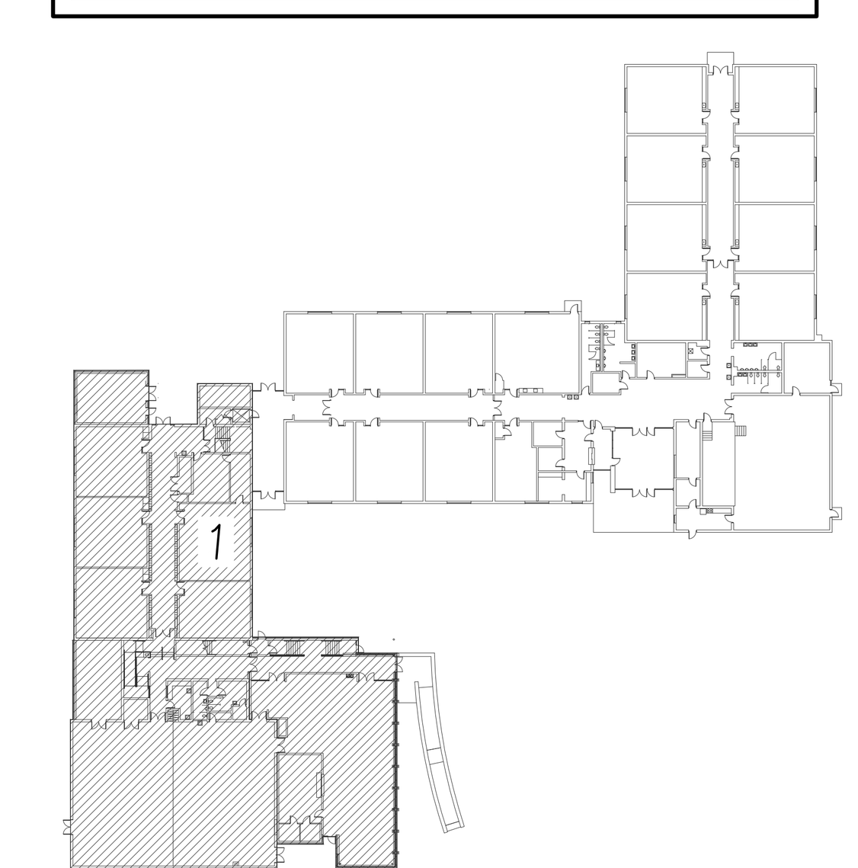
ELECTRICAL DEMOLITION LEGEND

SYMBOL:	DESCRIPTION:
	1' X 4' RECESSED MOUNTED LUMINAIRE
	1' X 4' SURFACE MOUNTED LUMINAIRE
	2' X 4' RECESSED MOUNTED LUMINAIRE
⊗	EXIT SIGN
$	LIGHT SWITCH
	DUPLEX RECEPTACLE
	SIMPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	ELECTRICAL CONNECTION TO EQUIPMENT
	ELECTRICAL PANEL
S	SPEAKER
J	CEILING MOUNTED JUNCTION BOX
J	WALL MOUNTED JUNCTION BOX
▽	DATA OUTLET
FACP	FIRE ALARM CONTROL PANEL
NAC	FIRE ALARM NAC PANEL
	FIRE ALARM AUDIO VISUAL ALARM
	SMOKE DETECTOR
	WALL MOUNTED LUMINAIRE
	DISCONNECT SWITCH
— — —	SURFACE MOUNTED RACEWAY
	CLOCK/INTERCOM
	WIRELESS ACCESS POINT
P	PROJECTOR
	DATA RACK

NOTE:
ALL NETWORK, SECURITY SYSTEM, AND FIRE ALARM SYSTEM CABLING SHALL BE DISCONNECTED AND PULLED BACK TO AN ACCESSIBLE POINT AS REQUIRED FOR NEW ROUTING. LINE VOLTAGE AND COAXIAL CABLING 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.

NOTE:
WHERE EQUIPMENT IS BEING DEMOLISHED, ALL ASSOCIATED ABANDONED ELECTRICAL SHALL BE COMPLETELY REMOVED UNLESS SPECIFICALLY NOTED OTHERWISE.



KEY PLAN
SCALE: NOT TO SCALE

NORTH

LICENSED PROFESSIONAL ENGINEER
BRIAN R. KEITH
062-050306
EXPIRES: 30NOV23
STATE OF ILLINOIS
DATE: 7/15/2022

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No.	Date	Revisions

SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title:
FIRST FLOOR PLAN - ELECTRICAL DEMOLITION - AREA 1

Proj. No.:	2249
Date:	7/15/2022
Drawn:	JJM
Approved:	BRK
Sheet No.:	ED111

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

NORTH

KEYED ELECTRICAL NOTES (THIS SHEET):

1. EXISTING SURFACE MOUNTED LOW–VOLTAGE RACEWAY MOUNTED TO HARD CEILING. SURFACE MOUNTED RACEWAY SHALL BE COMPLETELY DEMOLISHED TO ALLOW FOR INSTALLATION OF NEW GRID CEILING. DISCONNECT EXISTING LOW VOLTAGE CABLING AND PULL BACK TO AN ACCESSIBLE LOCATION. RE–ROUTE EXISTING LOW VOLTAGE CABLING ABOVE NEW GRID CEILING AND RE–TERMINATE TO PREVIOUS TERMINATION POINT. LOW VOLTAGE CABLING MAY BE ROUTED ABOVE NEW CEILING USING J HOOKS. FOR BIDDING PURPOSES, ASSUME THERE ARE 8 LOW VOLTAGE CABLES PER CLASSROOM THAT WILL NEED TO BE PULLED BACK AND RE–ROUTED.
2. REMOVE EXISTING CLOCK/INTERCOM SPEAKER TO ALLOW FOR WALL MOUNTED MECHANICAL PIPING ROUTING. RETAIN CLOCK/INTERCOM SPEAKER FOR INSTALLATION ON NEW WALL. SEE SHEET E112 FOR ADDITIONAL INFORMATION.
3. THE ELECTRICAL CONTRACTOR SHALL REMOVE AND RELOCATE ALL WALL MOUNTED DEVICES AND RACEWAYS AS REQUIRED TO ALLOW FOR MECHANICAL PIPING TO BE ROUTED ALONG WALL. COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR DURING CONSTRUCTION.
4. REMOVE EXISTING WALL MOUNTED ACCESS POINT TO ALLOW FOR WALL MOUNTED MECHANICAL PIPING ROUTING. REINSTALL ON SAME WALL, BELOW MECHANICAL PIPING, AFTER PIPING HAS BEEN INSTALLED. COORDINATE ALL WORK ON SITE WITH THE MECHANICAL CONTRACTOR PRIOR TO BEGINNING WORK.
5. COORDINATE EXISTING SURFACE MOUNTED CONDUIT/RACEWAY LOCATIONS ON SITE WITH THE MECHANICAL CONTRACTOR TO DETERMINE CONFLICTS WITH PIPING ROUTING. LOWER/RELOCATE EXISTING SURFACE MOUNTED RACEWAYS BELOW NEW WALL MOUNTED MECHANICAL PIPING AS REQUIRED.
6. REMOVE EXISTING SURFACE MOUNTED SPEAKER FOR REPLACEMENT WITH NEW. EXISTING SPEAKER WIRING SHALL REMAIN FOR REUSE WHERE POSSIBLE.
7. REMOVE EXISTING CEILING MOUNTED FIRE ALARM DEVICE TO ALLOW FOR CEILING DEMOLITION BY OTHERS. DEMOLISH ASSOCIATED SURFACE MOUNTED FIRE ALARM CONDUIT. EXISTING FIRE ALARM CABLING SHALL REMAIN FOR REUSE. PROTECT AND RETAIN DEVICE FOR REINSTALLATION AFTER CEILING WORK IS COMPLETE.
8. DEMOLISH EXISTING SURFACE MOUNTED CONDUIT ROUTED FROM LUMINARIE TO WALL MOUNTED EXIT SIGN. EXIT SIGN SHALL REMAIN. SEE SHEET E112 FOR ADDITIONAL INFORMATION.

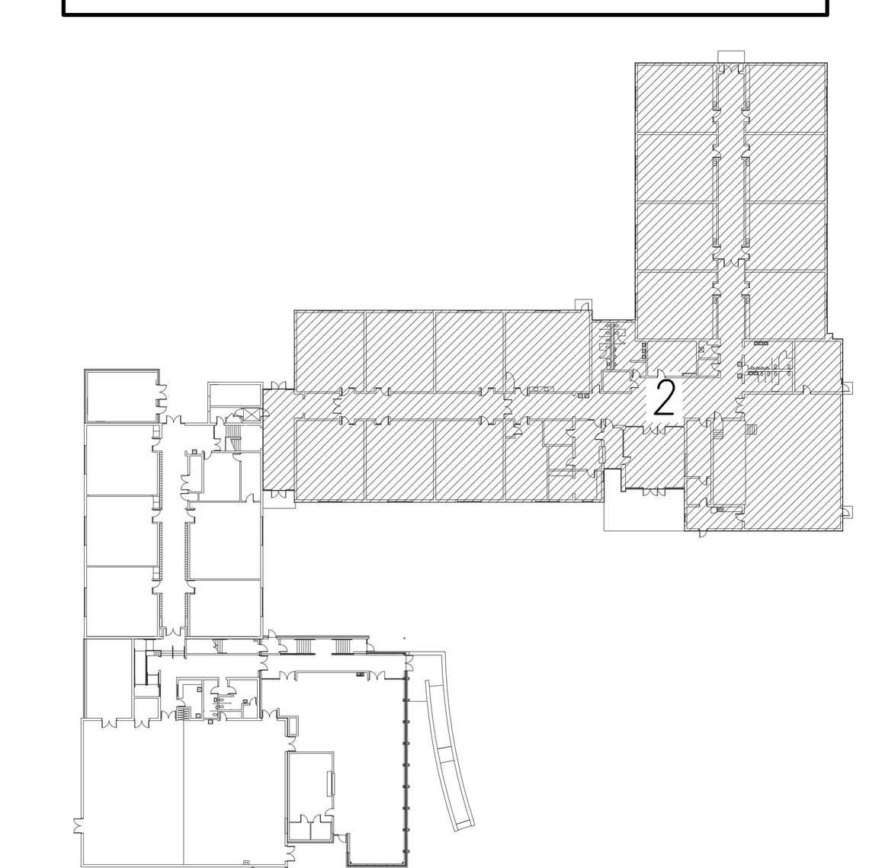
NOTE:
WHERE LUMINAIRES ARE BEING DEMOLISHED, ALL ASSOCIATED SURFACE MOUNTED RACEWAY SYSTEMS AND CONDUCTORS SHALL BE COMPLETELY DEMOLISHED.

NOTE:
THE ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING MOUNTED CORRIDOR DEVICES (LIGHTS, FIRE ALARM, SPEAKERS, ETC.) AS REQUIRED TO ALLOW ACCESS ABOVE CEILING TO MECHANICAL PIPING. COORDINATE ALL DEVICES TO BE REMOVED AND REINSTALLED ON SITE WITH THE MECHANICAL CONTRACTOR.

NOTE:
ALL NETWORK, SECURITY SYSTEM, AND FIRE ALARM SYSTEM CABLING SHALL BE DISCONNECTED AND PULLED BACK TO AN ACCESSIBLE POINT AS REQUIRED FOR NEW ROUTING. LINE VOLTAGE AND COAXIAL CABLING 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.

NOTE:
WHERE EQUIPMENT IS BEING DEMOLISHED, ALL ASSOCIATED ABANDONED ELECTRICAL SHALL BE COMPLETELY REMOVED UNLESS SPECIFICALLY NOTED OTHERWISE.



KEY PLAN
SCALE: NOT TO SCALE

NORTH

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SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title:	FIRST FLOOR PLAN - ELECTRICAL DEMOLITION - AREA 2
Proj. No.:	2249
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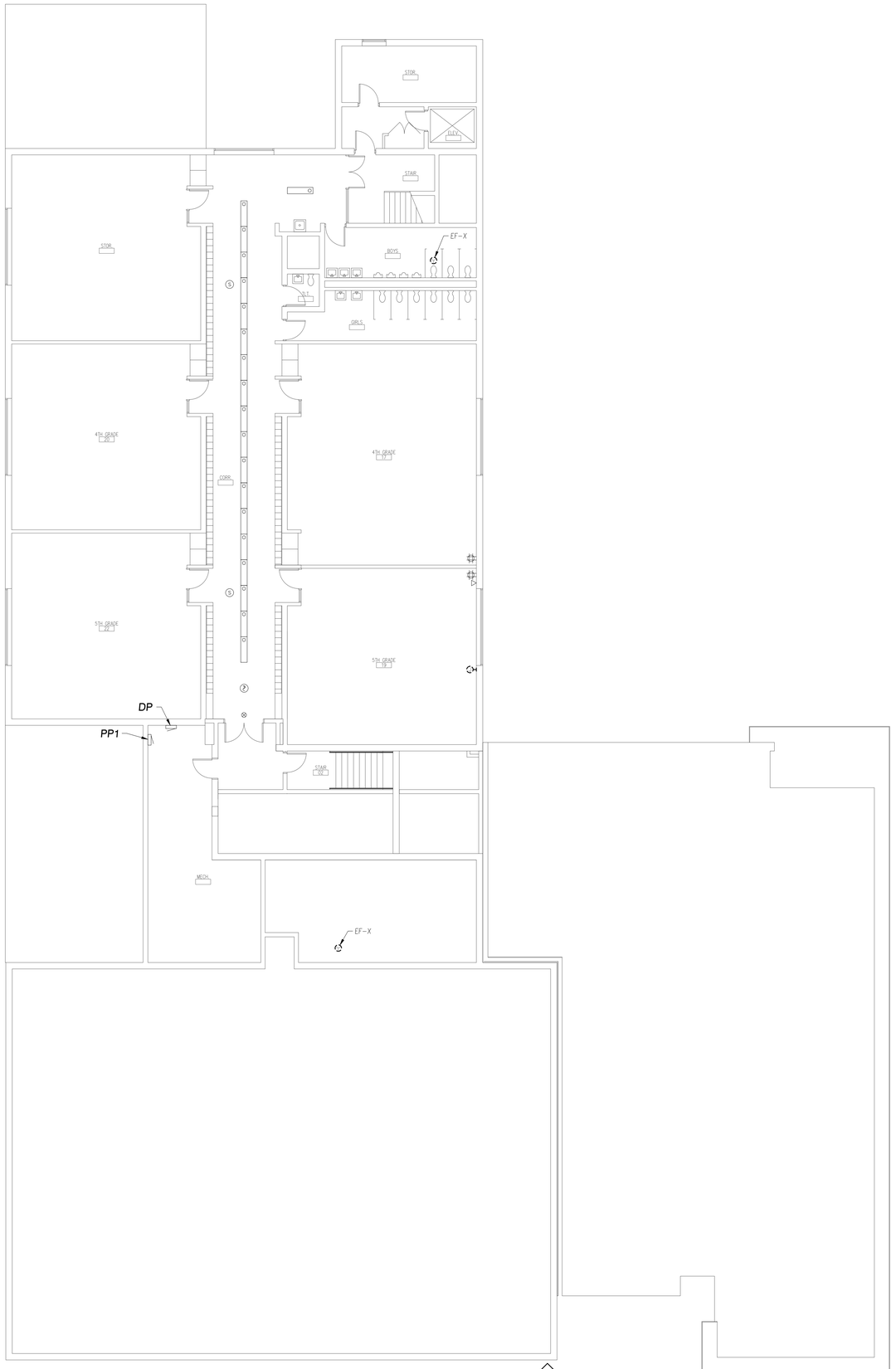
Drawn:	JJM
Approved:	BRK
Sheet No.:	ED112

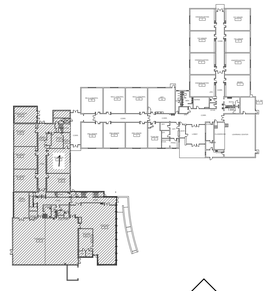


1 SECOND FLOOR PLAN - ELECTRICAL DEMOLITION - AREA 1
SCALE: 1/8" = 1'-0"

NORTH

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.

NOTE:
WHERE EQUIPMENT IS BEING DEMOLISHED, ALL ASSOCIATED ABANDONED ELECTRICAL SHALL BE COMPLETELY REMOVED UNLESS SPECIFICALLY NOTED OTHERWISE.



KEY PLAN
SCALE: NOT TO SCALE

NORTH

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DATE: 7/15/2022

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No.	Date	Revisions

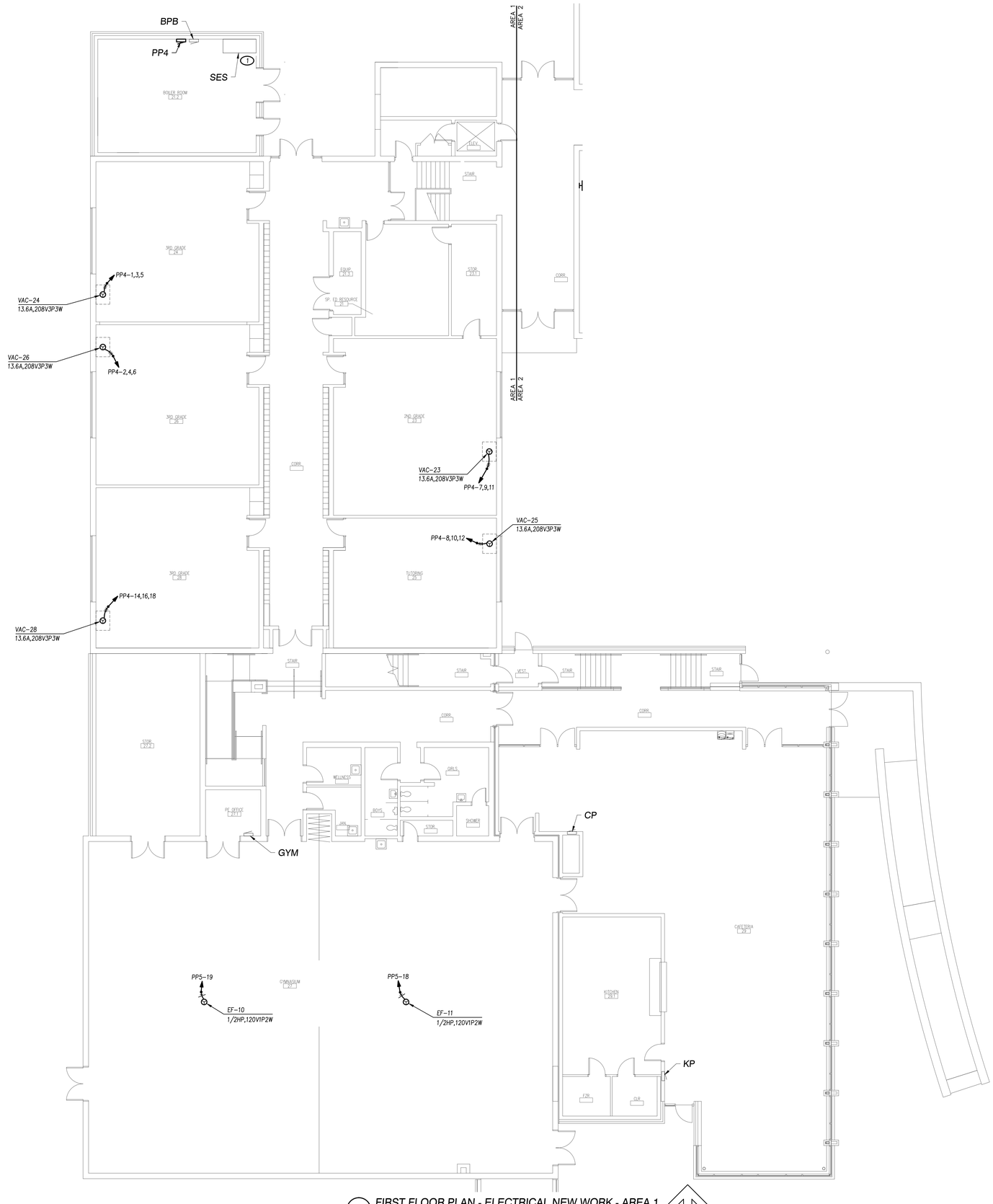
SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title:
SECOND FLOOR PLAN - ELECTRICAL DEMOLITION - AREA 1

Proj. No.:	2249
Date:	7/15/2022
Drawn:	JJM
Approved:	BRK
Sheet No.:	ED121

KEYED ELECTRICAL NOTES (THIS SHEET):

1. FURNISH AND INSTALL NEW CIRCUIT BREAKERS IN EXISTING SWITCHBOARD AS REQUIRED TO SERVE NEW LOADS. NEW CIRCUIT BREAKER TYPE AND RATING SHALL MATCH EXISTING INSTALLATIONS.

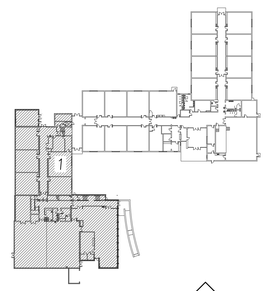


1 FIRST FLOOR PLAN - ELECTRICAL NEW WORK - AREA 1
SCALE: 1/8" = 1'-0"

NORTH

NOTE:

1. HANDWRITTEN BRANCH CIRCUIT PANELBOARD SCHEDULES ARE NOT ACCEPTABLE.
2. ALL CIRCUITS IN EXISTING PANELS MODIFIED WITH THE SCOPE OF WORK AND NEW PANELS SHALL HAVE TYPEWRITTEN CIRCUIT DIRECTORIES WITH SPECIFIC INFORMATION ON DEVICE AND ROOM(S) SERVED BY THE CORRESPONDING BREAKER.
3. INCLUDE A PRINTED THERMOGRAPHIC LABEL AT EACH BREAKER SPACE CORRESPONDING TO THE TYPEWRITTEN PANEL SCHEDULE.
4. ALL WIRING DEVICES SHALL HAVE A THERMOGRAPHIC LABEL ON EACH FACE PLATE INDICATING THE PANEL AND CIRCUIT NUMBER THE DEVICE IS SERVED BY.



KEY PLAN
SCALE: NOT TO SCALE

NORTH

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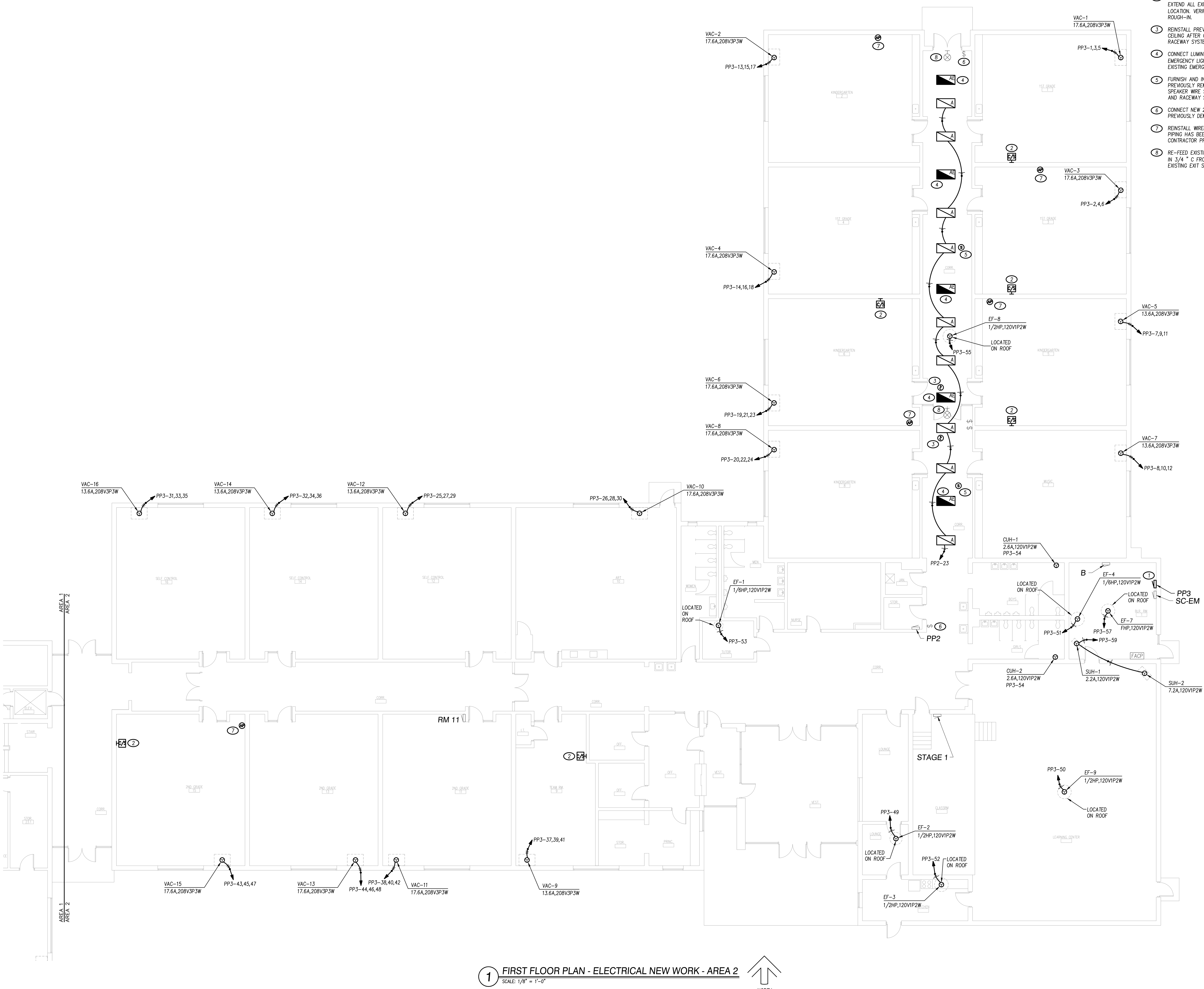
No.	Date	Revisions

SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title:
FIRST FLOOR PLAN - ELECTRICAL
NEW WORK - AREA 1

Proj. No.:	2249
Date:	7/15/2022
Drawn:	JJM
Approved:	BRK
Sheet No.:	E111



1 FIRST FLOOR PLAN - ELECTRICAL NEW WORK - AREA 2

SCALE: 1/8" = 1'-0"

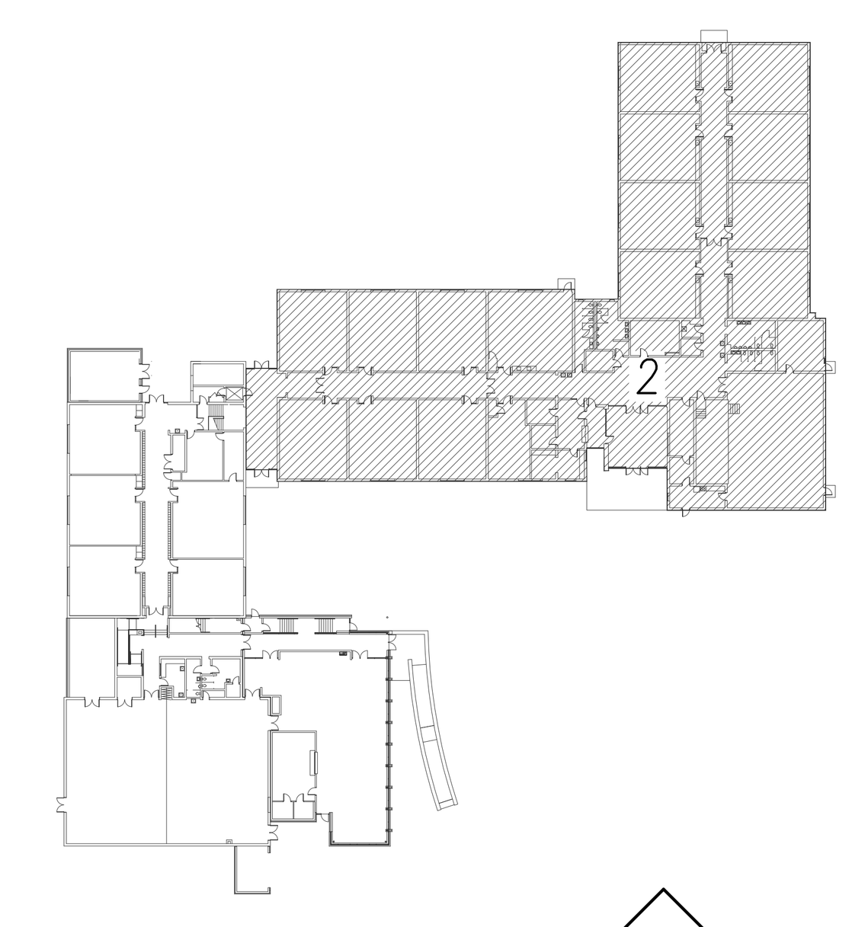
NORTH

KEYED ELECTRICAL NOTES (THIS SHEET):

1. COORDINATE EXACT LOCATION OF NEW BRACH PANEL ON SITE TO AVOID CONFLICTS WITH EXISTING INSTALLATIONS.
2. REINSTALL PREVIOUSLY REMOVED CLOCK/INTERCOM SYSTEM ON EXISTING BLOCK WALL. EXTEND ALL EXISTING CLOCK/INTERCOM SYSTEM CABLING AND RACEWAY SYSTEMS TO NEW LOCATION. VERIFY EXACT LOCATION WITH THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
3. REINSTALL PREVIOUSLY REMOVED CEILING MOUNTED FIRE ALARM DEVICE ON NEW GRID CEILING AFTER CEILING WORK IS COMPLETE. EXTEND ALL EXISTING FIRE ALARM CABLING AND RACEWAY SYSTEMS AS REQUIRED TO ACCOMMODATE NEW DEVICE LOCATION.
4. CONNECT LUMINAIRE TO EMERGENCY LIGHTING CIRCUIT PREVIOUSLY SERVING CORRIDOR EMERGENCY LIGHTING CIRCUIT. EXTEND 2#12 AND 1#12 GND IN 3/4 " C FROM NEAREST EXISTING EMERGENCY LIGHTING CIRCUIT AND CONNECT TO LUMINAIRE.
5. FURNISH AND INSTALL NEW ROUND GRILL CEILING PAGING SPEAKER TO REPLACE PREVIOUSLY REMOVED SURFACE MOUNTED SPEAKER. CONNECT NEW SPEAKER TO EXISTING SPEAKER WIRE SERVING PREVIOUS SPEAKER LOCATION. EXTEND ALL EXISTING SPEAKER WIRE AND RACEWAY SYSTEMS AS REQUIRED TO ACCOMMODATE THE NEW SPEAKER LOCATION.
6. CONNECT NEW 2X4 LIGHTING IN CORRIDOR TO EXISTING LIGHTING CONTROLS SERVING PREVIOUSLY DEMOLISHED CORRIDOR LIGHTING. ALL CONDUCTORS SHALL BE NEW.
7. REINSTALL WIRELESS ACCESS POINT ON SAME WALL, BELOW MECHANICAL PIPING, AFTER PIPING HAS BEEN INSTALLED. COORDINATE ALL WORK ON SITE WITH THE MECHANICAL CONTRACTOR PRIOR TO BEGINNING WORK.
8. RE-FEED EXISTING EXIT SIGN FROM ABOVE NEW GRID CEILING. EXTEND 2#12 AND 1#12 GND IN 3/4 " C FROM NEAREST EXISTING EMERGENCY LIGHTING CIRCUIT AND CONNECT TO EXISTING EXIT SIGN.

NOTE:
ALL EMERGENCY AND EXIT LUMINAIRES SHALL BE CONNECTED TO AN UNSWITCHED PORTION OF THE LOCAL EMERGENCY LIGHTING CIRCUIT.

NOTE:
1. HANDWRITTEN BRANCH CIRCUIT PANELBOARD SCHEDULES ARE NOT ACCEPTABLE.
2. ALL CIRCUITS IN EXISTING PANELS MODIFIED WITH THE SCOPE OF WORK AND NEW PANELS SHALL HAVE TYPEWRITTEN CIRCUIT DIRECTORIES WITH SPECIFIC INFORMATION ON DEVICE AND ROOM(S) SERVED BY THE CORRESPONDING BREAKER.
3. INCLUDE A PRINTED THERMOGRAPHIC LABEL AT EACH BREAKER SPACE CORRESPONDING TO THE TYPEWRITTEN PANEL SCHEDULE.
4. ALL WIRING DEVICES SHALL HAVE A THERMOGRAPHIC LABEL ON EACH FACE PLATE INDICATING THE PANEL AND CIRCUIT NUMBER THE DEVICE IS SERVED BY.



KEY PLAN

SCALE: NOT TO SCALE

NORTH

DATE: 7/15/2022

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Revisions

No.	Date	

SPRING CREEK ELEMENTARY SCHOOL
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ROCKFORD, ILLINOIS

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

Proj. No.:	2249
Date:	7/15/2022
Drawn:	JJM
Approved:	BRK
Sheet No.:	E112

KEYED ELECTRICAL NOTES (THIS SHEET):

1. COORDINATE EXACT PANEL LOCATION ON SITE TO AVOID CONFLICTS WITH EXISTING INSTALLMENTS.

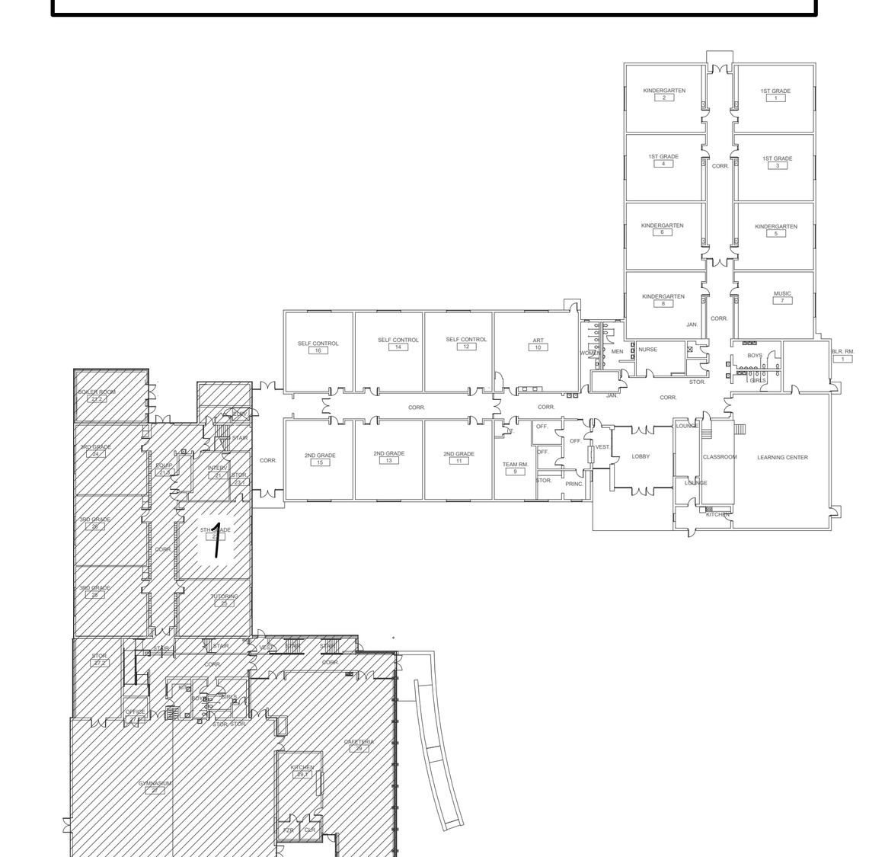
1 SECOND FLOOR PLAN - ELECTRICAL NEW WORK - AREA 1

SCALE: 1/8" = 1'-0"

NORTH

NOTE:

1. HANDWRITTEN BRANCH CIRCUIT PANELBOARD SCHEDULES ARE NOT ACCEPTABLE.
2. ALL CIRCUITS IN EXISTING PANELS MODIFIED WITH THE SCOPE OF WORK AND NEW PANELS SHALL HAVE TYPEWRITTEN CIRCUIT DIRECTORIES WITH SPECIFIC INFORMATION ON DEVICE AND ROOM(S) SERVED BY THE CORRESPONDING BREAKER.
3. INCLUDE A PRINTED THERMOGRAPHIC LABEL AT EACH BREAKER SPACE CORRESPONDING TO THE TYPEWRITTEN PANEL SCHEDULE.
4. ALL WIRING DEVICES SHALL HAVE A THERMOGRAPHIC LABEL ON EACH FACE PLATE INDICATING THE PANEL AND CIRCUIT NUMBER THE DEVICE IS SERVED BY.



KEY PLAN

SCALE: NOT TO SCALE

NORTH

DATE: 7/15/2022

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Revisions

No.	Date	

SPRING CREEK ELEMENTARY SCHOOL
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ROCKFORD, ILLINOIS

Sheet Title:
SECOND FLOOR PLAN - ELECTRICAL NEW WORK - AREA 1

Proj. No.:	2249
Date:	7/15/2022
Drawn:	JJM
Approved:	BRK
Sheet No.:	E121

EXISTING SWITCHBOARD TO REMAIN

SES

ROOM: BOILER RM. 21.2 | VOLTS: 208Y/120V 3P 4W | AIC: 65,000
MOUNTING: FLOOR | BUS AMPS: 2000 | MAIN: 2000
FED FROM: UTILITY | NEUTRAL: 100% | LUGS: STANDARD
NOTE: SQUARE D QED SERIES

	CKT #	CIRCUIT DESCRIPTION	KVA LOAD A	KVA LOAD B	KVA LOAD C	BREAKER TRIP/POLES	COND.	FEEDER RACEWAY AND CONDUCTORS
	1	TVSS	0	0	0	–/3	CU	–
	2	TVSS	0	0	0	–/3	CU	–
	3	TVSS	0	0	0	60/3	CU	–
	4	OFFICE ROOF TOP UNIT (RTU)	0	0	0	50/3	CU	–
	5	SPARE	0	0	0	150/3	CU	–
	6	EXISTING LOAD	0	0	0	350/3	CU	–
	7	EXISTING LOAD	0	0	0	60/3	CU	–
	8	EXISTING LOAD	0	0	0	100/3	CU	–
	9	BOILER RM LIGHTS	0			20/1	CU	–
	10	SPARE	0			20/1	CU	–
	11	SPACE	0	0		–/2	CU	–
	12	DP	0	0	0	400/3	CU	–
	13	RTU–1	0	0	0	200/3	CU	–
	14	SPACE	0	0	0	–/3	CU	–
	15	BOILER RM UNIT HEATER	0	0	0	60/3	CU	–
	16	SPACE	0	0	0	–/3	CU	–
	17	SPACE	0	0	0	–/3	CU	–
	18	SPACE	0	0	0	–/3	CU	–
	19	SPACE	0	0	0	–/3	CU	–
	20	SPACE	0	0	0	–/3	CU	–
	21	PP1	0	0	0	100/3	CU	–
	22	PANEL PP2	5.2	5.9	5.81	125/3	CU	1–1/2"C,3#1/0,#1/0N,#6G
	23	PA	0	0	0	100/3	CU	–
	24	PB	0	0	0	100/3	CU	–
	25	BPB	0	0	0	150/3	CU	–
NB	26	PANEL PP3	34.5	32.7	33.2	400/3	CU	4"C,3#600MCM,#600MCM N,#1G
NB	27	PANEL PP4	8.17	8.17	8.17	225/3	CU	2–1/2"C,3#4/0,#4/0N,#4G
NB	28	PANEL PP5	11	9.82	9.82	225/3	CU	2–1/2"C,3#4/0,#4/0N,#4G
	29	SPACE	0	0	0	–/3	CU	–
	30	SPACE	0	0	0	–/3	CU	–
(2)	31	EXISTING PEAK DEMAND	45.5	45.5	45.5	–/3	CU	–
		TOTAL CONNECTED KVA BY PHASE	104	102	102			

	CONN. KVA	CALC. KVA			CONN. KVA	CALC. KVA	
LIGHTING	0.405	0.506	(125%)	CONTINUOUS	3	3.75	(125%)
LARGEST MOTOR	6.34	1.59	(125%)	HEATING	0	0	(100%)
OTHER MOTORS	15.9	15.9	(100%)	NONCONTINUOUS	0	0	(100%)
RECEPTACLES	7.5	7.5	(50%>10)	KITCHEN EQUIP	0	0	(N/A)
				NONCOIN/DIVERSE	136	136	(100%)
				TOTAL KVA	309	311	

BALANCED THREE PHASE AMPS 864

NB =FURNISH AND INSTALL NEW CIRCUIT BREAKER. TYPE AND RATING SHALL MATCH EXISTING INSTALLATIONS.

NEW BRANCH PANEL

PANEL: **PP3** | ROOM: BOILER ROOM 1 | VOLTS: 208Y/120V 3P 4W | AIC: 22,000
MOUNTING: SURFACE | BUS AMPS: 400 | MAIN: 400
FED FROM: SES | NEUTRAL: 100% | LUGS: STANDARD
NOTE:

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	30/3	6.34	VAC–1	a	2	30/3	6.34	VAC–3
3				b	4			
5				c	6			
7	25/3	4.9	VAC–5	a	8	25/3	4.9	VAC–7
9				b	10			
11				c	12			
13	30/3	6.34	VAC–2	a	14	30/3	6.34	VAC–4
15				b	16			
17				c	18			
19	30/3	6.34	VAC–6	a	20	30/3	6.34	VAC–8
21				b	22			
23				c	24			
25	25/3	4.9	VAC–12	a	26	30/3	6.34	VAC–10
27				b	28			
29				c	30			
31	25/3	4.9	VAC–16	a	32	25/3	4.9	VAC–14
33				b	34			
35				c	36			
37	25/3	4.9	VAC–9	a	38	30/3	6.34	VAC–11
39				b	40			
41				c	42			
43	30/3	6.34	VAC–15	a	44	30/3	6.34	VAC–13
45				b	46			
47				c	48			
49	20/1	1.18	EF–2	a	50	20/1	1.18	EF–9
51	20/1	0.528	EF–4	b	52	20/1	1.18	EF–3
53	20/1	0.528	EF–1	c	54	20/1	0.624	CUH–1, CUH–2
55	20/1	1.18	EF–8	a	56	20/1	0	SPARE
57	20/1	0.1	EF–7	b	58	20/1	0	SPARE
59	20/1	1.13	SUH–1, SUH–2	c	60	20/1	0	SPARE
61	20/1	0	SPARE	a	62	20/1	0	SPARE
63	20/1	0	SPARE	b	64	20/1	0	SPARE
65	20/1	0	SPARE	c	66	20/1	0	SPARE
67	20/1	0	SPARE	a	68	20/1	0	SPARE
69	20/1	0	SPARE	b	70	20/1	0	SPARE
71	20/1	0	SPARE	c	72	20/1	0	SPARE
73	20/1	0	SPARE	a	74	20/1	0	SPARE
75	20/1	0	SPARE	b	76	20/1	0	SPARE
77	20/1	0	SPARE	c	78	20/1	0	SPARE
79	20/1	0	SPARE	a	80	20/1	0	SPARE
81	20/1	0	SPARE	b	82	20/1	0	SPARE
83	20/1	0	SPARE	c	84	20/1	0	SPARE

	CONN. KVA	CALC. KVA			CONN. KVA	CALC. KVA	
LIGHTING	0	0	(125%)	CONTINUOUS	0	0	(125%)
LARGEST MOTOR	6.34	1.59	(125%)	HEATING	0	0	(100%)
OTHER MOTORS	7.61	7.61	(100%)	NONCONTINUOUS	0	0	(100%)
RECEPTACLES	0	0	(50%>10)	KITCHEN EQUIP	0	0	(N/A)
				NONCOIN/DIVERSE	0	0	(N/A)
				TOTAL KVA	100	102	

BALANCED THREE PHASE AMPS 283

PHASE BALANCE PERCENT: PHASE A 103% PHASE B 97.8% PHASE C 99.2%

NEW BRANCH PANEL

PANEL: **PP4** | ROOM: BOILER ROOM 21.2 | VOLTS: 208Y/120V 3P 4W | AIC: 42,000
MOUNTING: SURFACE | BUS AMPS: 225 | MAIN: 225
FED FROM: SES | NEUTRAL: 100% | LUGS: STANDARD
NOTE:

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	25/3	4.9	VAC–24	a	2	25/3	4.9	VAC–26
3				b	4			
5				c	6			
7	25/3	4.9	VAC–23	a	8	25/3	4.9	VAC–25
9				b	10			
11				c	12			
13	20/1	0	SPARE	a	14	25/3	4.9	VAC–28
15	20/1	0	SPARE	b	16			
17	20/1	0	SPARE	c	18			
19	20/1	0	SPARE	a	20	20/1	0	SPARE
21	20/1	0	SPARE	b	22	20/1	0	SPARE
23	20/1	0	SPARE	c	24	20/1	0	SPARE
25	20/1	0	SPARE	a	26	20/1	0	SPARE
27	20/1	0	SPARE	b	28	20/1	0	SPARE
29	20/1	0	SPARE	c	30	20/1	0	SPARE
31	20/1	0	SPARE	a	32	20/1	0	SPARE
33	20/1	0	SPARE	b	34	20/1	0	SPARE
35	20/1	0	SPARE	c	36	20/1	0	SPARE
37	20/1	0	SPARE	a	38	20/1	0	SPARE
39	20/1	0	SPARE	b	40	20/1	0	SPARE
41	20/1	0	SPARE	c	42	20/1	0	SPARE
43	20/1	0	SPARE	a	44	20/1	0	SPARE
45	20/1	0	SPARE	b	46	20/1	0	SPARE
47	20/1	0	SPARE	c	48	20/1	0	SPARE
49	20/1	0	SPARE	a	50	20/1	0	SPARE
51	20/1	0	SPARE	b	52	20/1	0	SPARE
53	20/1	0	SPARE	c	54	20/1	0	SPARE
55	20/1	0	SPARE	a	56	20/1	0	SPARE
57	20/1	0	SPARE	b	58	20/1	0	SPARE
59	20/1	0	SPARE	c	60	20/1	0	SPARE

	CONN. KVA	CALC. KVA			CONN. KVA	CALC. KVA	
LIGHTING	0	0	(125%)	CONTINUOUS	0	0	(125%)
LARGEST MOTOR	4.9	1.22	(125%)	HEATING	0	0	(100%)
OTHER MOTORS	0	0	(100%)	NONCONTINUOUS	0	0	(100%)
RECEPTACLES	0	0	(50%>10)	KITCHEN EQUIP	0	0	(N/A)
				NONCOIN/DIVERSE	0	0	(N/A)
				TOTAL KVA	24.5	25.7	

BALANCED THREE PHASE AMPS 71.4

PHASE BALANCE PERCENT: PHASE A 100% PHASE B 100% PHASE C 100%

NEW BRANCH PANEL

PANEL: **PP5** | ROOM: 2ND FLOOR MECH | VOLTS: 208Y/120V 3P 4W | AIC: 22,000
MOUNTING: SURFACE | BUS AMPS: 225 | MAIN: 225
FED FROM: SES | NEUTRAL: 100% | LUGS: STANDARD
NOTE:

CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	25/3	4.9	VAC–18	a	2	25/3	4.9	VAC–20
3				b	4			
5				c	6			
7	25/3	4.9	VAC–22	a	8	30/3	6.34	VAC–17
9				b	10			
11				c	12			
13	25/3	4.9	VAC–19	a	14	20/1	1.18	EF–6
15				b	16	20/1	1.18	EF–5
17				c	18	20/1	1.18	EF–11
19	20/1	1.18	EF–10	a	20	20/1	0	SPARE
21	20/1	0	SPARE	b	22	20/1	0	SPARE
23	20/1	0	SPARE	c	24	20/1	0	SPARE
25	20/1	0	SPARE	a	26	20/1	0	SPARE
27	20/1	0	SPARE	b	28	20/1	0	SPARE
29	20/1	0	SPARE	c	30	20/1	0	SPARE
31	20/1	0	SPARE	a	32	20/1	0	SPARE
33	20/1	0	SPARE	b	34	20/1	0	SPARE
35	20/1	0	SPARE	c	36	20/1	0	SPARE
37	20/1	0	SPARE	a	38	20/1	0	SPARE
39	20/1	0	SPARE	b	40	20/1	0	SPARE
41	20/1	0	SPARE	c	42	20/1	0	SPARE
43	20/1	0	SPARE	a	44	20/1	0	SPARE
45	20/1	0	SPARE	b	46	20/1	0	SPARE
47	20/1	0	SPARE	c	48	20/1	0	SPARE
49	20/1	0	SPARE	a	50	20/1	0	SPARE
51	20/1	0	SPARE	b	52	20/1	0	SPARE
53	20/1	0	SPARE	c	54	20/1	0	SPARE
55	20/1	0	SPARE	a	56	20/1	0	SPARE
57	20/1	0	SPARE	b	58	20/1	0	SPARE
59	20/1	0	SPARE	c	60	20/1	0	SPARE

	CONN. KVA	CALC. KVA			CONN. KVA	CALC. KVA	
LIGHTING	0	0	(125%)	CONTINUOUS	0	0	(125%)
LARGEST MOTOR	6.34	1.59	(125%)	HEATING	0	0	(100%)
OTHER MOTORS	4.7	4.7	(100%)	NONCONTINUOUS	0	0	(100%)
RECEPTACLES	0	0	(50%>10)	KITCHEN EQUIP	0	0	(N/A)
				NONCOIN/DIVERSE	0	0	(N/A)
				TOTAL KVA	30.6	32.2	

BALANCED THREE PHASE AMPS 89.5

PHASE BALANCE PERCENT: PHASE A 108% PHASE B 96.2% PHASE C 96.2%

EXISTING BRANCH PANEL TO REMAIN

PANEL: **PP2** | ROOM: STORAGE | VOLTS: 208Y/120V 3P 4W | AIC: 22,000
MOUNTING: SURFACE | BUS AMPS: 125 | MAIN: MLO
FED FROM: SES | NEUTRAL: 100% | LUGS: STANDARD
NOTE: SQUARE D NQ SERIES

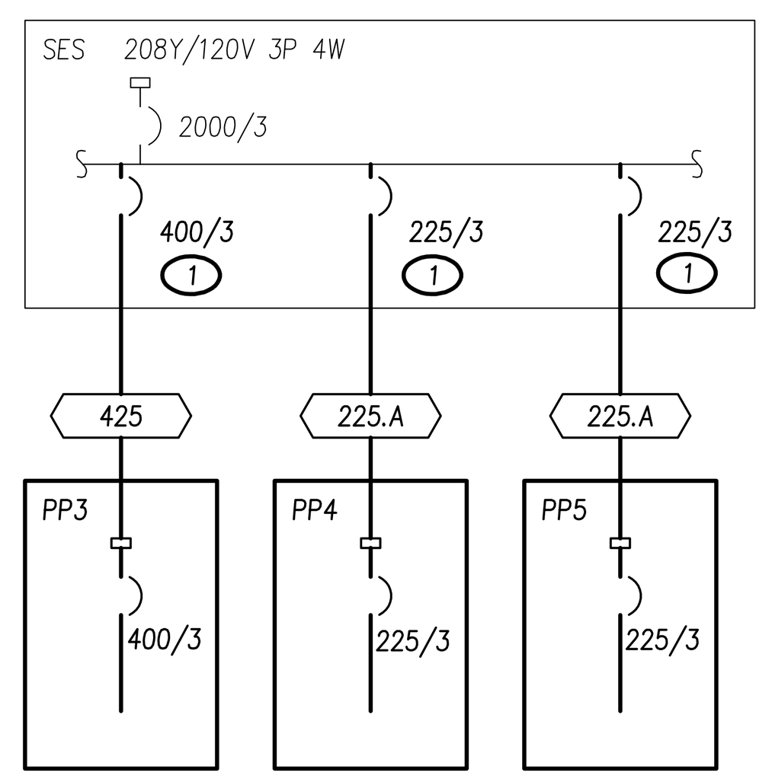
	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION		CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
	1	20/1	0.5	CLASSROOM #8 RECEPT	a	2	20/1	0.5	CLASSROOM #15 RECEPT
	3	20/1	0.5	CLASSROOM #6 RECEPT	b	4	20/1	0.5	CLASSROOM #13 RECEPT
	5	20/1	0.5	CLASSROOM #4 RECEPT	c	6	20/1	0.5	CLASSROOM #16 RECEPT
	7	20/1	0.5	CLASSROOM #2 RECEPT	a	8	20/1	0.5	CLASSROOM #14 RECEPT
	9	20/1	0.5	CLASSROOM #7 RECEPT	b	10	20/1	0.5	CLASSROOM #12 RECEPT
	11	20/1	0.5	CLASSROOM #5 RECEPT	c	12	20/1	0.5	CLASSROOM #10 RECEPT
	13	20/1	0.5	CLASSROOM #3 RECEPT	a	14	20/1	0.5	EXISTING LOAD
	15	20/1	0.5	CLASSROOM #1 RECEPT	b	16	20/1	0.5	EXISTING LOAD
	17	20/1	0.5	RECEPT	c	18	20/1	0.5	EXISTING LOAD
	19	20/1	0.5	EXISTING LOAD	a	20	20/3	3.6	RTU BATHROOM
	21	20/1	0.5	EXISTING LOAD	b	22			
NB	23	20/1	0.405	CORRIDOR LIGHTING	c	24			
	25	–/1	0	SPACE	a	26	20/1	0.5	EXISTING LOAD
	27	–/1	0	SPACE	b	28	20/2	2.4	NURSE OFFICE AC
	29	–/1	0	SPACE	c	30			
	31	–/1	0	SPACE	a	32	–/1	0	SPACE
	33	–/1	0	SPACE	b	34	–/1	0	SPACE
	35	–/1	0	SPACE	c	36	–/1	0	SPACE
	37	–/1	0	SPACE	a	38	–/1	0	SPACE
	39	–/1	0	SPACE	b	40	–/1	0	SPACE
	41	–/1	0	SPACE	c	42	–/1	0	SPACE

	CONN. KVA	CALC. KVA			CONN. KVA	CALC. KVA	
LIGHTING	0.405	0.506	(125%)	CONTINUOUS	3	3.75	(125%)
LARGEST MOTOR	3.6	4.5	(125%)	HEATING	0	0	(100%)
OTHER MOTORS	0	0	(100%)	NONCONTINUOUS	0	0	(100%)
RECEPTACLES	7.5	7.5	(50%>10)	KITCHEN EQUIP	0	0	(N/A)
				NONCOIN/DIVERSE	0	0	(N/A)
				TOTAL KVA	16.9	18.7	

BALANCED THREE PHASE AMPS 51.8

PHASE BALANCE PERCENT: PHASE A 91.8% PHASE B 105% PHASE C 103%

NB =FURNISH AND INSTALL NEW CIRCUIT BREAKER. TYPE AND RATING SHALL MATCH EXISTING INSTALLATIONS.



1 ELECTRICAL PARTIAL ONE LINE DIAGRAM

SCALE: NONE

FEEDER SCHEDULE

ID	FEEDER AMPS	CONDUIT AND FEEDER	FEEDING THESE DEVICES
225.A	225	2–1/2"C,3#4/0,#4/0N,#4G	PP4, PP5
425	425	4"C,3#600MCM,#600MCM N,#1G	PP3

SIZING METHOD: COPPER, 60°C #12 THROUGH #1, 75°C 1/0 AND ABOVE

KEYED ELECTRICAL NOTES (THIS SHEET):

(1) FURNISH AND INSTALL NEW CIRCUIT BREAKER. TYPE AND RATING SHALL MATCH EXISTING INSTALLATIONS.

(2) EXISTING PEAK DEMAND IS SHOWN FOR LOAD CALCULATION PURPOSES ONLY. THIS DOES NOT REFLECT AND ACTUAL SPACE/SPARE IN SWITCHBOARD.

EQUIPMENT CONNECTION SCHEDULE

CALLOUT	SYMBOL	VOLTS	AMPS	KVA	HP	BREAKER	CIRCUIT	WIRE CALLOUT
CUH–1	⊗	120V 1P 2W	2.6	0.31		20/1	PP3–54	3/4"C,1#10,#10N,#10G
CUH–2	⊗	120V 1P 2W	2.6	0.31		20/1	PP3–54	3/4"C,1#10,#10N,#10G
EF–1	⊗	120V 1P 2W	4.4	0.53	1/6 HP	20/1	PP3–53	3/4"C,1#10,#10N,#10G
EF–2	⊗	120V 1P 2W	9.8	1.18	1/2 HP	20/1	PP3–49	3/4"C,1#10,#10N,#10G
EF–3	⊗	120V 1P 2W	9.8	1.18	1/2 HP	20/1	PP3–52	3/4"C,1#10,#10N,#10G
EF–4	⊗	120V 1P 2W	4.4	0.53	1/6 HP	20/1	PP3–51	3/4"C,1#10,#10N,#10G
EF–5	⊗	120V 1P 2W	9.8	1.18	1/2 HP	20/1	PP5–16	3/4"C,1#10,#10N,#10G
EF–6	⊗	120V 1P 2W	9.8	1.18	1/2 HP	20/1	PP5–14	3/4"C,1#10,#10N,#10G
EF–7	⊗	120V 1P 2W	0.83	0.1	F HP	20/1	PP3–57	3/4"C,1#10,#10N,#10G
EF–8	⊗	120V 1P 2W	9.8	1.18	1/2 HP	20/1	PP3–55	3/4"C,1#10,#10N,#10G
EF–9	⊗	120V 1P 2W	9.8	1.18	1/2 HP	20/1	PP3–50	3/4"C,1#10,#10N,#10G
EF–10	⊗	120V 1P 2W	9.8	1.18	1/2 HP	20/1	PP5–19	3/4"C,1#8,#10N,#8G
EF–11	⊗	120V 1P 2W	9.8	1.18	1/2 HP	20/1	PP5–18	3/4"C,1#8,#8N,#10G
SUH–1	⊗	120V 1P 2W	2.2	0.26		20/1	PP3–59	3/4"C,1#10,#10N,#10G
SUH–2	⊗	120V 1P 2W	7.2	0.86	1/3 HP	20/1	PP3–59	3/4"C,1#10,#10N,#10G
VAC–1	⊗	208V 3P 3W	17.6	6.34		30/3	PP3–1,3,5	3/4"C,3#10,#10G
VAC–2	⊗	208V 3P 3W	17.6	6.34		30/3	PP3–13,15,17	3/4"C,3#8,#8G
VAC–3	⊗	208V 3P 3W	17.6	6.34		30/3	PP3–2,4,6	3/4"C,3#10,#10G
VAC–4	⊗	208V 3P 3W	17.6	6.34		30/3	PP3–14,16,18	3/4"C,3#10,#10G
VAC–5	⊗	208V 3P 3W	13.6	4.9		25/3	PP3–7,9,11	3/4"C,3#10,#10G
VAC–6	⊗	208V 3P 3W	17.6	6.34		30/3	PP3–19,21,23	3/4"C,3#10,#10G
VAC–7	⊗	208V 3P 3W	13.6	4.9		25/3	PP3–8,10,12	3/4"C,3#10,#10G
VAC–8	⊗	208V 3P 3W	17.6	6.34		30/3	PP3–20,22,24	3/4"C,3#10,#10G
VAC–9	⊗	208V 3P 3W	13.6	4.9		25/3	PP3–37,39,41	3/4"C,3#10,#10G
VAC–10	⊗	208V 3P 3W	17.6	6.34		30/3	PP3–26,28,30	3/4"C,3#10,#10G
VAC–11	⊗	208V 3P 3W	17.6	6.34		30/3	PP3–38,40,42	3/4"C,3#8,#8G
VAC–12	⊗	208V 3P 3W	13.6	4.9		25/3	PP3–25,27,29	3/4"C,3#10,#10G
VAC–13	⊗	208V 3P 3W	17.6	6.34		30/3	PP3–44,46,48	3/4"C,3#6,#6G
VAC–14	⊗	208V 3P 3W	13.6	4.9		25/3	PP3–32,34,36	3/4"C,3#10,#10G
VAC–15	⊗	208V 3P 3W	17.6	6.34		30/3	PP3–43,45,47	3/4"C,3#6,#6G
VAC–16	⊗	208V 3P 3W	13.6	4.9		25/3	PP3–31,33,35	3/4"C,3#8,#8G
VAC–17	⊗	208V 3P 3W	17.6	6.34		30/3	PP5–8,10,12	3/4"C,3#10,#10G
VAC–18	⊗	208V 3P 3W	13.6	4.9		25/3	PP5–1,3,5	3/4"C,3#10,#10G
VAC–19	⊗	208V 3P 3W	13.6	4.9		25/3	PP5–13,15,17	3/4"C,3#10,#10G
VAC–20	⊗	208V 3P 3W	13.6	4.9		25/3	PP5–2,4,6	3/4"C,3#10,#10G
VAC–22	⊗	208V 3P 3W	13.6	4.9		25/3	PP5–7,9,11	3/4"C,3#10,#10G
VAC–23	⊗	208V 3P 3W	13.6	4.9		25/3	PP4–7,9,11	3/4"C,3#10,#10G
VAC–24	⊗	208V 3P 3W	13.6	4.9		25/3	PP4–1,3,5	3/4"C,3#10,#10G
VAC–25	⊗	208V 3P 3W	13.6	4.9		25/3	PP4–8,10,12	3/4"C,3#10,#10G
VAC–26	⊗	208V 3P 3W	13.6	4.9		25/3	PP4–2,4,6	3/4"C,3#10,#10G
VAC–28	⊗	208V 3P 3W	13.6	4.9		25/3	PP4–14,16,18	3/4"C,3#10,#10G

NOTE:
ALL OUTAGES SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE A MINIMUM OF TWO WEEKS IN ADVANCE.

NOTE:
ALL NEW PANEL NAMES SHALL BE APPROVED BY THE OWNER PRIOR TO LABELING EACH PANEL.

NOTE:
1. HANDWRITTEN BRANCH CIRCUIT PANELBOARD SCHEDULES ARE NOT ACCEPTABLE.
2. ALL CIRCUITS IN EXISTING PANELS MODIFIED WITH THE SCOPE OF WORK AND NEW PANELS SHALL HAVE TYPEWRITTEN CIRCUIT DIRECTORIES WITH SPECIFIC INFORMATION ON DEVICE AND ROOM(S) SERVED BY THE CORRESPONDING BREAKER.
3. INCLUDE A PRINTED THERMOGRAPHIC LABEL AT EACH BREAKER SPACE CORRESPONDING TO THE TYPEWRITTEN PANEL SCHEDULE.
4. ALL WIRING DEVICES SHALL HAVE A THERMOGRAPHIC LABEL ON EACH FACE PLATE INDICATING THE PANEL AND CIRCUIT NUMBER THE DEVICE IS SERVED BY.

LICENSED PROFESSIONAL ENGINEER BRIAN R. KEITH 062-050306 EXPIRES: 30NOV23 STATE OF ILLINOIS
DATE: 7/15/2022

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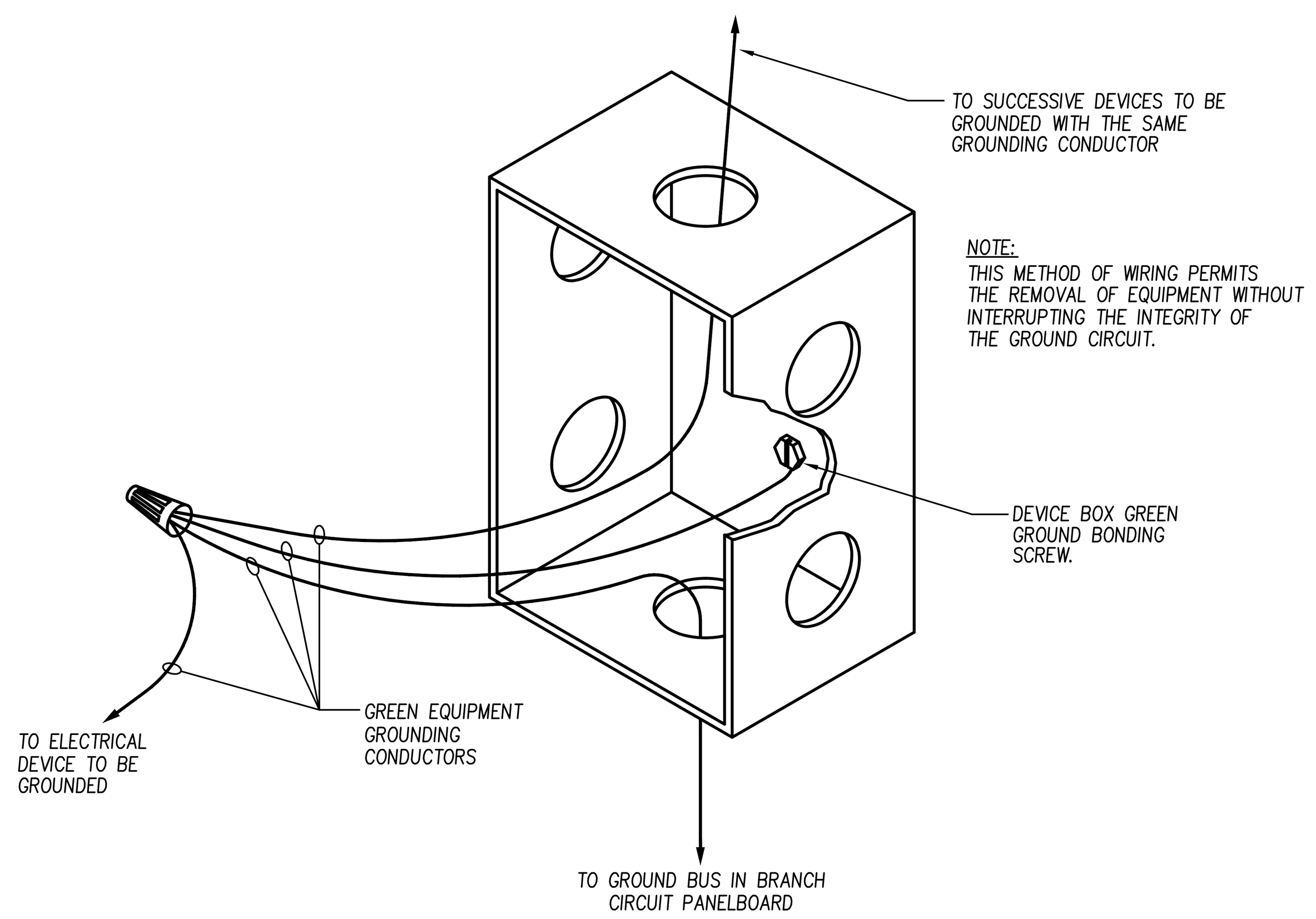
Revisions

No.	Date	Revisions

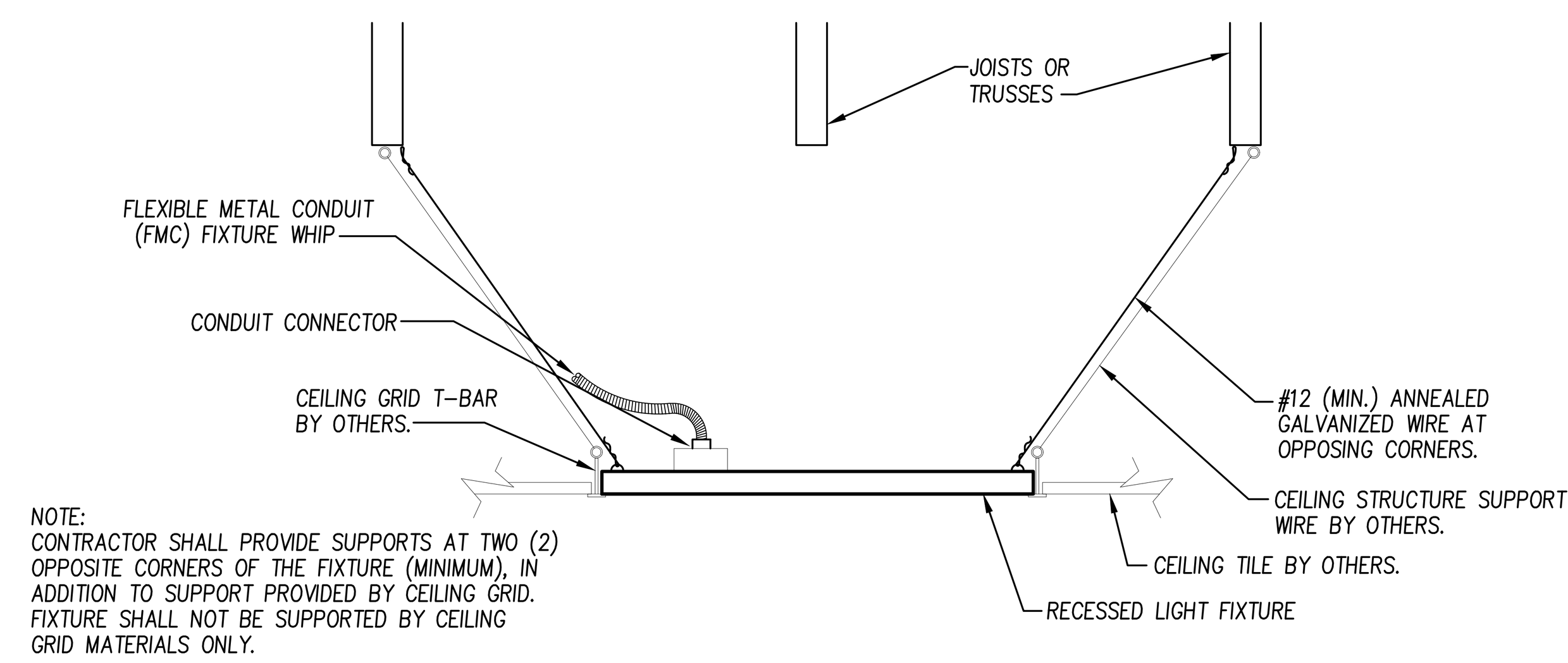
SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title: ELECTRICAL PANEL SCHEDULES & ONE LINE DIAGRAMS

Proj. No.: 2249
Date: 7/15/2022
Drawn: JJM
Approved: BRK
Sheet No.: E200

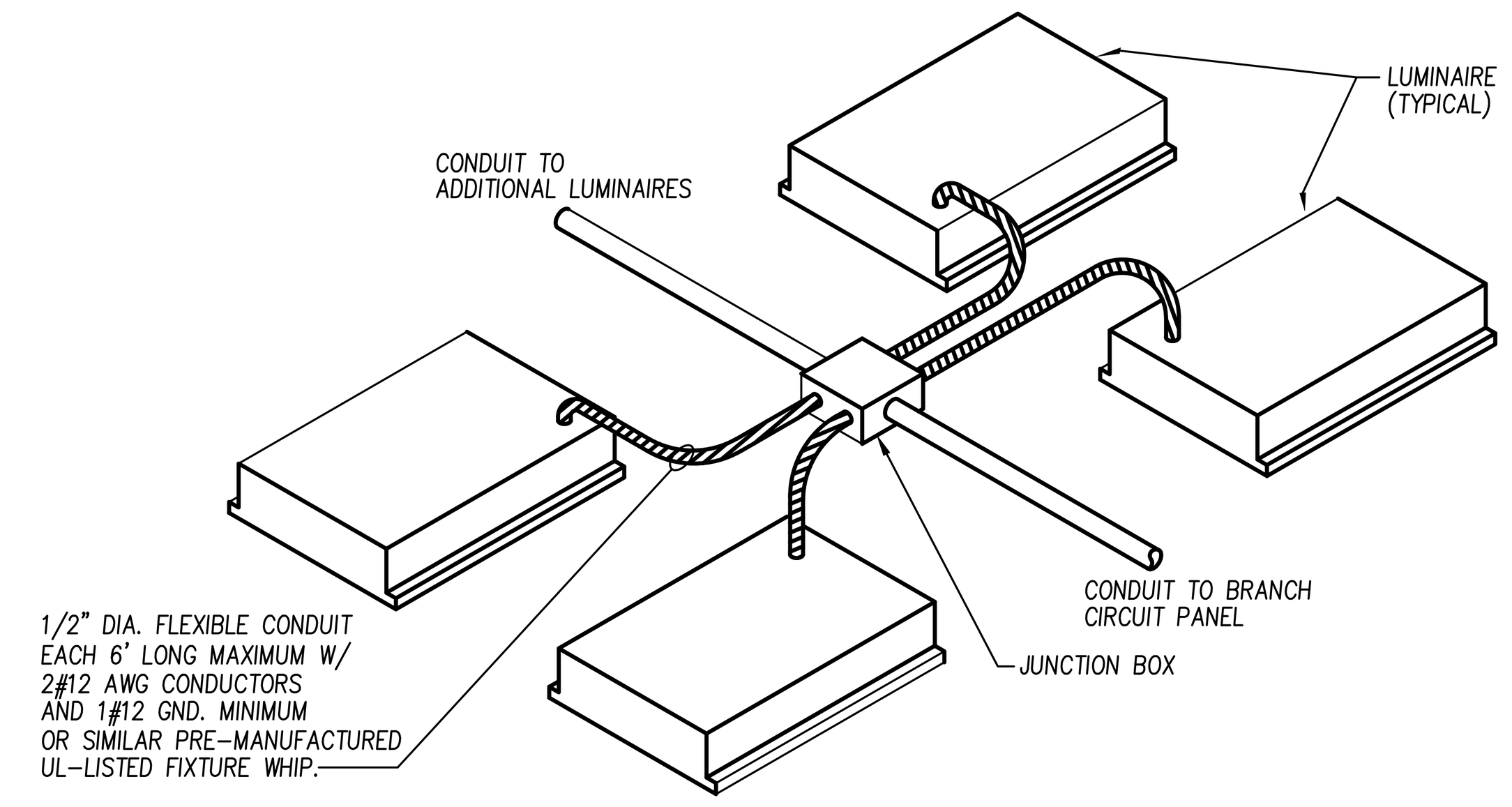


1 NON-INTERRUPTABLE EQUIPMENT GROUNDING CONDUCTOR
SCALE: NONE

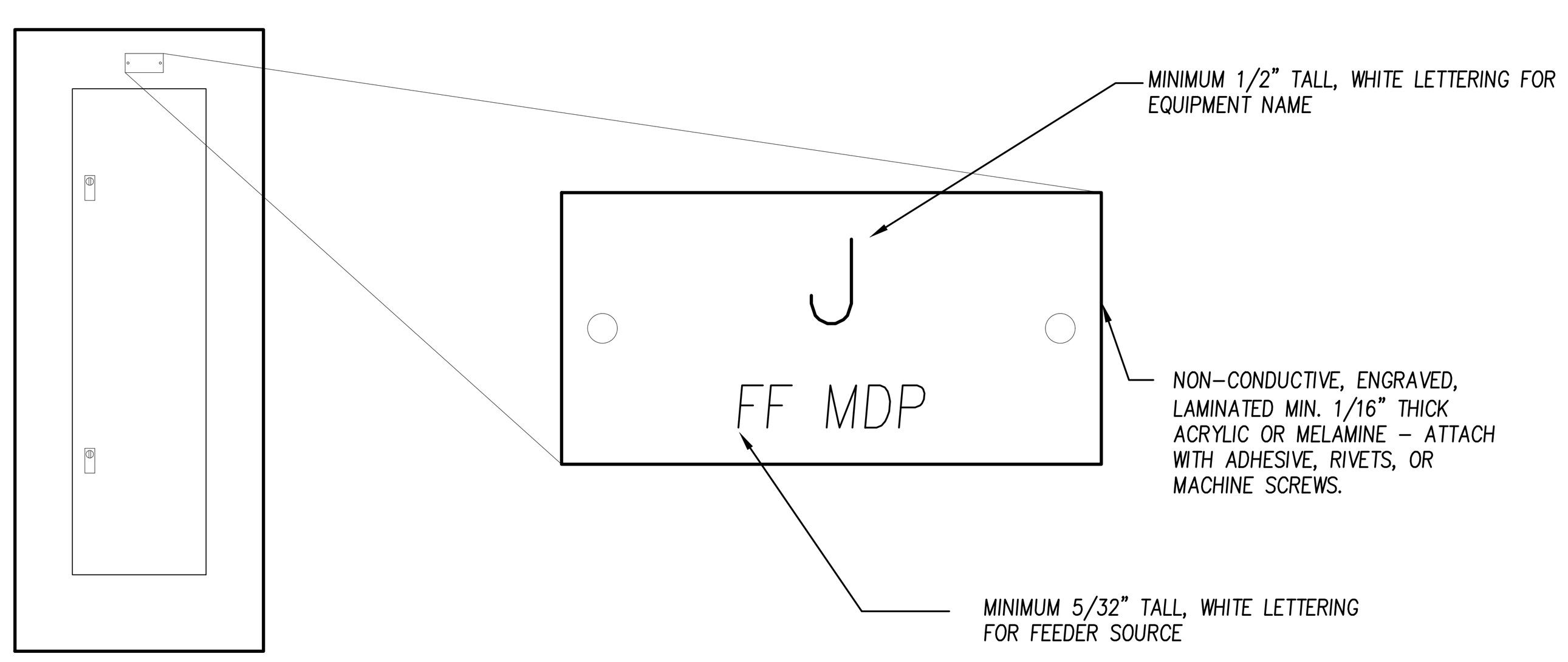


NOTE:
CONTRACTOR SHALL PROVIDE SUPPORTS AT TWO (2) OPPOSITE CORNERS OF THE FIXTURE (MINIMUM), IN ADDITION TO SUPPORT PROVIDED BY CEILING GRID. FIXTURE SHALL NOT BE SUPPORTED BY CEILING GRID MATERIALS ONLY.

2 RECESSED LED PANEL TROFFER MOUNTING DETAIL
SCALE: NONE



3 TYPICAL RECESSED LIGHT FIXTURE WIRING DETAIL
SCALE: NONE



4 TYPICAL PANEL/EQUIPMENT LABEL DETAIL
SCALE: NONE

NOTE:
PROVIDE NEW PANEL IDENTIFICATION LABEL FOR EACH NEW AND EXISTING PANELBOARD, SWITCHBOARD, OR MAIN ENCLOSED BREAKER. SEE SPECIFICATION SECTION 260553 FOR ADDITIONAL LABELING REQUIREMENTS FOR EQUIPMENT.

DATE: 7/15/2022

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No.	Date	Revisions

SPRING CREEK ELEMENTARY SCHOOL
HVAC UPGRADE
ROCKFORD, ILLINOIS

Sheet Title: ELECTRICAL DETAILS

Proj. No.: 2249
Date: 7/15/2022
Drawn: JJM
Approved: BRK
Sheet No.: E400

MATERIAL SCHEDULE

ITEM	SYMBOL	DESCRIPTION	MANUFACTURER
1	COVER PLATES	ALL COVER PLATES FOR DEVICES SHALL BE THERMOPLASTIC CONSTRUCTION IN FINISHED AREAS. COVER PLATES IN UNFINISHED SPACES SHALL BE GALVANIZED STEEL CONSTRUCTION. ALL DEVICES AND COVER PLATE COLORS SHALL MATCH EXISTING INSTALLATIONS EXACTLY. ALL DEVICE PLATES SHALL INCLUDE A PRE-PRINTED LABEL INDICATING THE PANEL AND CIRCUIT NUMBER SERVING THE DEVICE. THE LABEL SHALL HAVE A CLEAR BACK GROUND WITH BLACK LETTERING.	HUBBELL LEVITON PASS & SEYMOUR LUTRON COOPER
2		ELECTRICAL EQUIPMENT CONNECTION; SIZE CONNECTION PER THE NATIONAL ELECTRICAL CODE, UNLESS LARGER CAPACITY IS NOTED OTHERWISE. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.	
3	G/W	IN-USE LISTED WEATHER PROOF GROUND FAULT TAMPER RESISTANT NORMAL POWER DUPLEX RECEPTACLE, STRAIGHT BLADE, 20 AMPERE, SPECIFICATION GRADE, 3 WIRE GROUNDING TYPE, TEST AND RESET BUTTONS IN THE FACE, NEMA 5-20R. WEATHERPROOF COVER PLATE, NEMA 4 RATED WHILE IN USE.	HUBBELL 5300 SERIES TAMPER RESISTANT WITH WHILE IN USE COVER LEVITON PASS & SEYMOUR COOPER
4	PANEL PP3 PP4 PP5	NEW BRANCH PANEL, 208/120 VOLT, 3 PHASE, 4 WIRE, HINGED COVER, COPPER BUS, COPPER GROUND BUS AND NEUTRAL BUS. SEE PLANS AND SCHEDULE FOR ADDITIONAL INFORMATION.	SQUARE D NQ SERIES EATON SIEMENS
5	PANEL SES	EXISTING SWITCHBOARD TO REMAIN, 208/120 VOLT, 3-PHASE, 4 WIRE. FURNISH AND INSTALL NEW CIRCUIT BREAKERS AS REQUIRED TO SERVE NEW LOADS. NEW CIRCUIT BREAKER TYPE AND RATING SHALL MATCH EXISTING INSTALLATIONS.	SQUARE D QED SERIES
6	PANEL BPB CP DP GYM KP PP1 RM11 STAGE 1	EXISTING BRANCH PANEL TO REMAIN, 208/120 VOLT, 3-PHASE, 4 WIRE.	SQUARE D NQ SERIES
7	PANEL SC-EM	EXISTING LIFE SAFETY POWER BRANCH PANEL TO REMAIN, 208/120 VOLT, 3-PHASE, 4 WIRE.	GE A SERIES
8	PANEL B	EXISTING DISTRIBUTION PANEL TO REMAIN, 208/120 VOLT, 3-PHASE, 4 WIRE.	CONTINENTAL ELECTRIC
9	S	CEILING MOUNTED PAGING SPEAKER, ANALOG TYPE, ROUND GRILL, COMPLETE LOUD SPEAKER ASSEMBLY WITH 8" FRAME, PERFORATED STEEL BAFFLE AND INTEGRAL BACK BOX, WHITE FINISH WITH INTEGRAL 25/70 FIELD SELECTABLE TRANSFORMER, WITH 5 TAPS AT 3dB LEVELS, 20-WATT RMS EIA 426A SPEAKER POWER RATING, CERAMIC 4.8 OZ MAGNET, 42HZ-17KHZ FREQUENCY RESPONSE. SPEAKER SHALL BE COMPATIBLE WITH EXISTING INTERCOM PAGING SYSTEM. VERIFY COMPATIBILITY PRIOR TO ORDER.	QUAM BOGEN OR EQUAL

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	DESCRIPTION	MODEL	MAX. WATTS	COLOR TEMP (K)/CRI	MIN. LUM./ WATT	NOM. INITIAL LUMENS
A		RECESSED 2'X4' FLAT EDGE LIT PANEL LED FIXTURE WITH WHITE ALUMINUM HOUSING, ACRYLIC DIFFUSER AND WHITE OPAL LENS, MAXIMUM PANEL DEPTH OF 1" AND MAXIMUM PANEL DEPTH OF 2.5" AT DRIVER, AND 0-10V, 10% DIMMING, UNIVERSAL INPUT VOLTAGE ELECTRONIC DRIVER.	LITHONIA CPANL 2X4 AL06 SWW7 M2	45	4000/80	105	4000
AE		SAME AS TYPE "A" EXCEPT FIXTURE SHALL BE CONNECTED TO AN UNSWITCHED PORTION OF THE EMERGENCY CIRCUIT AS INDICATED ON PLANS.	LITHONIA CPANL 2X4 AL06 SWW7 M2	45	4000/80	105	4000

LUMINAIRE SCHEDULE NOTES

1. CONTRACTOR SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, MECHANICAL SYSTEM PLANS, DETAILS, SECTIONS, AND ELEVATIONS FOR AID IN COORDINATION OF FIXTURE LOCATIONS AND ANY INTERFERENCES.
2. CONTRACTOR SHALL PROVIDE COPIES OF COMPLETE FIXTURE SCHEDULES, LIGHTING PLANS, AND LIGHTING SPECIFICATIONS TO ALL SUPPLIERS OR MANUFACTURERS' REPRESENTATIVES INVOLVED IN FIXTURE PRICING OR ORDERING, PRIOR TO BID.
3. FIXTURES SHALL BE PROVIDED WITH FEATURES, OPTIONS, AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION AND THOSE LISTED IN FIXTURE MODEL NUMBERS PROVIDED, SPECS., AND WRITTEN DESCRIPTION. IF CONFLICTS EXIST BETWEEN THESE, NOTIFY A/E FOR CLARIFICATION PRIOR TO BIDDING OR ORDERING.
4. ALL FIXTURES RECESSED IN, OR SUSPENDED FROM SUSPENDED ACOUSTICAL TILE (S.A.T.) CEILINGS SHALL HAVE INDEPENDENT SUPPORT FROM BUILDING FRAMING OR OTHER APPROVED STRUCTURE.
5. ALL TEMPERATURE COLORS SHALL BE 4000K UNLESS SPECIFICALLY NOTED OTHERWISE.
6. NOTIFY A/E IMMEDIATELY OF DISCREPANCIES AND MAKE NECESSARY CORRECTIONS PRIOR TO BIDDING.
7. ALL LUMINAIRES SHALL BE CEE CERTIFIED.
8. LAY-IN LUMINAIRES SHALL USE THE GRID AS A SUPPORT ELEMENT. INSTALL CEILING SUPPORT SYSTEM RODS OR WIRES INDEPENDENT OF THE CEILING SUSPENSION DEVICES FOR EACH FIXTURE FOR SUPPLEMENTAL SUPPORT. LOCATE THE SUPPORTS NOT MORE THAN SIX INCHES FROM THE LIGHTING FIXTURE CORNERS.
9. SUPPORT CLIPS SHALL FASTEN TO THE LIGHTING FIXTURES AND TO THE CEILING GRID MEMBERS AT OR NEAR EACH FIXTURE CORNER WITH CLIPS THAT ARE UL LISTED FOR THE APPLICATION.
10. FIXTURES SIZED LESS THAN THE CEILING GRID SHALL BE INSTALLED AS INDICATED ON THE REFLECTED CEILING PLANS OR CENTER IN THE ACOUSTICAL PANEL. SUPPORT THE FIXTURES INDEPENDENTLY WITH AT LEAST TWO 3/4" METAL CHANNELS SPANNING AND SECURED TO THE CEILING TILES.

GENERAL ELECTRICAL NOTES:

1. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES INCLUDING BUT NOT LIMITED TO THE NATIONAL ELECTRICAL CODE, THE INTERNATIONAL BUILDING CODE, AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES, AND INTERNATIONAL ENERGY CONSERVATION CODE. THE AUTHORITY HAVING JURISDICTION SHALL HAVE THE FINAL DECISION ON ALL INSTALLATIONS AND PRACTICES.
2. REFER TO THE MATERIAL SCHEDULE, LUMINAIRE SCHEDULE, AND OTHER ASSOCIATED SCHEDULES AND NOTES FOR MANUFACTURERS AND DESCRIPTIONS OF ELECTRICAL MATERIALS, DEVICES, AND EQUIPMENT.
3. ALL ELECTRICAL CONDUCTORS SHALL BE STRANDED COPPER WITH TYPE THHN-THWN INSULATION UNLESS SPECIFICALLY NOTED OTHERWISE. THE MINIMUM WIRE SIZE SHALL BE #12 AWG.
4. CIRCUIT IDENTIFICATION NUMBERS ARE TO COORDINATE CIRCUITING WITH THE ASSOCIATED PANEL. THE CIRCUIT NUMBERS SHALL BE FIELD MODIFIED TO BALANCE THE ELECTRICAL LOAD ON ALL PHASES AS EVENLY AS POSSIBLE.
5. ALL CIRCUITS REQUIRING NEUTRAL CONDUCTORS SHALL HAVE DEDICATED NEUTRALS. SHARED NEUTRALS ARE NOT ALLOWED.
6. A GREEN GROUNDING CONDUCTOR SHALL BE CONNECTED TO ALL LOADS SERVED. THE CONDUCTOR SHALL BE SIZED PER THE NATIONAL ELECTRICAL CODE TO ACCOMMODATE THE LOAD SERVED. ALL GROUNDING CONDUCTORS SHALL BE INSTALLED IN CONDUIT.
7. ALL BUILDING WIRING SHALL BE INSTALLED IN CONDUIT. MINIMUM SIZE SHALL BE 3/4".
8. MC CABLING IS NOT PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE.
9. ALL CONDUITS SHALL BE CONCEALED IN WALLS, ABOVE CEILINGS, ETC. WHERE POSSIBLE. ALL CONDUIT ROUTED EXPOSED SHALL BE A PRE-MANUFACTURED SURFACE RACEWAY (IE. WIREMOLD OR EQUAL) WITH THE EQUIVALENT USABLE AREA OF THE SUBSTITUTED CONDUIT. EXPOSED SURFACE RACEWAY SHALL NOT BE PERMITTED WITHOUT PRIOR APPROVAL FROM ARCHITECT/ENGINEER. ALL EXPOSED SURFACE RACEWAY SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO WALLS AND CEILINGS. SURFACE WIREWAY SHALL BE FACTORY OR FIELD PAINTED TO MATCH MOUNTING SURFACE.
10. COORDINATE THE EXACT LOCATION OF ALL DEVICES LOCATED ABOVE OR BELOW COUNTERS, ETC. WITH OTHER TRADES, ARCHITECTURAL ELEVATIONS, AND REVIEWED SUBMITTALS PRIOR TO ROUGH-IN.
11. ALL CUTTING AND PATCHING REQUIRED FOR CONDUITS, DEVICES OR OTHER ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
12. ALL PENETRATIONS THROUGH FIRE-RATED WALLS, FLOORS, AND CEILINGS SHALL BE SEALED WITH AN APPROVED FIRE-RATED SYSTEM EQUAL TO OR EXCEEDING THE RATING OF THE MATERIAL PENETRATED.
13. COORDINATE LOCATIONS OF ALL ELECTRICAL ITEMS INCLUDING LIGHTING FIXTURES, CEILING MOUNTED DEVICES (OCCUPANCY SENSORS, FIRE ALARM DETECTORS, SPEAKERS, ETC.) WITH EACH OTHER AND WITH ALL SPRINKLER HEADS, AIR SUPPLY DIFFUSER AND AIR RETURN GRILLES. ALL CEILING DEVICES SHALL BE CENTERED IN CEILING TILE.
14. COORDINATE ALL MOUNTING OF ELECTRICAL MATERIALS, EQUIPMENT, AND DEVICES REQUIRED FOR EQUIPMENT/DEVICES SUPPLIED BY OTHERS. ELECTRICAL ITEMS SHALL BE MOUNTED TO AVOID ANY INTERFERENCE WITH OTHER EQUIPMENT OPERATION OR ACCESS. ALL INSTALLATIONS OF ELECTRICAL ITEMS FOR EQUIPMENT/DEVICES SUPPLIED BY OTHERS SHALL BE COORDINATED AND APPROVED BY SUPPLYING CONTRACTOR PRIOR TO ROUGH-IN.
15. BOXES LOCATED ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" OR A FIRE RATED MATERIAL EQUAL TO OR GREATER THAN THE FIRE WALL MATERIAL RATING SHALL BE INSTALLED AROUND THE BOX. BOXES LOCATED ON OPPOSITE SIDES OF NON-FIRE RATED WALLS SHALL BE OFFSET A MINIMUM 6".
16. REMOVE AND REINSTALL ALL CEILING TILES NECESSARY TO PERFORM REQUIRED ELECTRICAL WORK. ALL CEILING TILES WHICH ARE DAMAGED DURING REMOVAL/REINSTALLATION, SHALL BE REPLACED WITH NEW TILES OF THE SAME MANUFACTURER AND MODEL AS EXISTING TILE.
17. FLUSH MOUNT ALL TOGGLE SWITCHES AND FIRE ALARM MANUAL PULL STATIONS 42" ABOVE THE FINISHED FLOOR TO THE CENTER OF THE DEVICE UNLESS OTHERWISE NOTED. MOUNT FIRE ALARM VISUAL AND AUDIBLE/VISUAL UNITS +80" ABOVE FINISHED FLOOR OR 6" BELOW CEILING, WHICHEVER IS LOWER.
18. FLUSH MOUNT ALL RECEPTACLES AND TELECOMMUNICATIONS OUTLETS 18" ABOVE THE FINISHED FLOOR TO THE CENTER OF THE DEVICE UNLESS OTHERWISE NOTED.
19. 'A' SUBSCRIPT NEXT TO A DEVICE INDICATES INSTALLATION ABOVE COUNTER.
    'B' SUBSCRIPT NEXT TO A DEVICE INDICATES INSTALLATION BELOW COUNTER. COORDINATE ALL LOCATIONS WITH ARCHITECTURAL DRAWINGS AND SUBMITTALS. FIELD VERIFY ALL LOCATIONS PRIOR TO ROUGH-IN.
20. LINE TYPE KEY:
    a. NEW WORK BY THE ELECTRICAL CONTRACTOR
    b. NEW WORK BY OTHERS OR EXISTING WORK TO REMAIN
    c. EXISTING WORK TO BE DEMOLISHED BY THE ELECTRICAL CONTRACTOR
21. INDICATES THE TYPE OF CONDUCTORS IN THE CONDUIT. VERIFY QUANTITY FOR EACH SPECIFIC LOAD SERVED.
    GROUND CONDUCTOR
    PHASE CONDUCTOR
    NEUTRAL CONDUCTOR
22. CONDUCTOR TICK MARKS INDICATED ON CONDUITS DO NOT REPRESENT THE QUANTITY OF CONDUCTORS IN THE CONDUIT, BUT THE TYPE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE REQUIRED QUANTITY OF GROUND, NEUTRAL, PHASE, AND SWITCH LEGS IN EACH CONDUIT.
23. ALL REQUEST FOR CHANGE PROPOSALS ON THIS PROJECT SHALL INCLUDE A BREAKDOWN OF MATERIALS, LABOR, AND SUBCONTRACTORS, WITH SUFFICIENT DETAIL FOR ENGINEER EVALUATION. EACH SEPARATE PROPOSAL REQUEST ITEM SHALL INCLUDE SEPARATE MATERIALS AND LABOR BREAKDOWNS. EACH ITEM BREAKDOWN SHALL BE AN ITEMIZED LIST OF MATERIALS WITH QUANTITIES AND THE APPLIED LABOR UNITS, UNLESS OTHERWISE APPROVED. SUPPLIER BACK-UP PRICING SHALL BE INCLUDED ON THE SUPPLIERS' LETTERHEAD. ALL LABOR UNITS ASSOCIATED WITH THE NEW MATERIAL INSTALLATIONS SHALL NOT EXCEED 75% OF THE NECA 1 LABOR RATES, WITHOUT SPECIFIC PERMISSION.

GENERAL ELECTRICAL DEMOLITION NOTES:

1. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED FOR THIS PROJECT. THEY ARE NOT INTENDED TO INDICATE THE LOCATION OF ALL DEVICES, JUNCTION BOXES, CONDUITS, ETC.. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO VERIFY ALL RELEVANT EXISTING CONDITIONS.
2. DISCONNECT ALL ELECTRICAL SYSTEMS AS REQUIRED IN FLOORS, WALLS, CEILINGS AND OTHER STRUCTURES SCHEDULED FOR DEMOLITION.
3. ELECTRICAL ITEMS (i.e., LIGHTING FIXTURES, RECEPTACLES, SWITCHES, ETC.) REMOVED AND NOT RELOCATED, REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETAIN (i.e., FOR MAINTENANCE PROPOSES).
4. PROVIDE TEMPORARY WIRING AND ASSOCIATED CONNECTIONS AS REQUIRED TO MAINTAIN EXISTING SYSTEMS OPERATION DURING CONSTRUCTION. ASSUME ALL EQUIPMENT MUST REMAIN OPERATIONAL DURING CONSTRUCTION UNLESS SPECIFICALLY NOTED OTHERWISE.
5. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER BEFORE TURNING OFF POWER TO CIRCUITS, FEEDERS, PANELS, ETC., OR DISABLING SYSTEMS IN PART OR WHOLE. COORDINATE ALL OUTAGES WITH OWNER.
6. PROTECT WALLS, CEILINGS, FLOORS, AND OTHER EXISTING FINISH WORK THAT ARE TO REMAIN AND ARE EXPOSED DURING SELECTIVE DEMOLITION OPERATIONS.
7. DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. USE METHODS REQUIRED TO COMPLETE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS AND AS INDICATED IN THESE NOTES.
8. WHERE LIGHTS, SWITCHES, RECEPTACLES, OR OTHER ELECTRICAL ITEMS, ARE BEING REMOVED ALL ASSOCIATED CONDUIT AND WIRE BACK TO THE PANEL BOARD OR FEEDER JUNCTION BOX SERVING THE DEVICE SHALL ALSO BE REMOVED, UNLESS THE CONDUIT CAN BE REUSED FOR NEW CONDUCTORS. EXISTING OPENINGS IN WALLS TO REMAIN SHALL BE PATCHED WITH DRYWALL, TAPED AND PAINTED TO MATCH EXISTING CONDITIONS. BLANK COVERPLATES OVER UNUSED OPENINGS ~~IS~~ ARE NOT ALLOWED. ALL ABANDONED CONDUITS EXTENDING FROM WALLS ABOVE CEILINGS SHALL BE CUT OFF FLUSH WITH THE STUD AND PLUGGED.
9. ALL CONDUIT SHALL BE REMOVED WHERE WALLS ARE BEING REMOVED. WHERE CONDUIT IS IN THE CONCRETE SLAB, CUT OFF FLUSH, PULL OUT WIRE, AND PLUG. WHERE CONDUIT IS RUN EXPOSED, ALL ASSOCIATED CLAMPS, SUPPORTS, HANGERS, ETC., SHALL ALSO BE REMOVED. CONDUIT CONCEALED IN WALL CONSTRUCTION MAY BE ABANDONED IN PLACE, IF NOT AFFECTED BY OTHER CONSTRUCTION.
10. THIS CONTRACTOR SHALL COORDINATE ALL HIS WORK WITH OTHER CONTRACTORS AT THE JOB SITE BEFORE REMOVING EXISTING AND INSTALLING NEW ELECTRICAL ITEMS.
11. EXISTING CONDUIT IN GOOD CONDITION, MAY BE REUSED IN PLACE. RELOCATED EXISTING CONDUIT SHALL NOT BE ALLOWED. BONDING CONDUCTORS SHALL BE INSTALLED IN ALL REUSED CONDUIT TO ASSURE PROPER GROUND PATH.
12. EQUIPMENT/DEVICE REMOVAL IN CERTAIN LOCATIONS MAY REQUIRE THE INSTALLATION OF A JUNCTION BOX TO RECONNECT CIRCUITS THAT REMAIN IN OPERATION. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAINTAIN CIRCUIT TO REMAINING EQUIPMENT.
13. PROCEED WITH SELECTIVE DEMOLITION SYSTEMATICALLY.
14. TRANSPORT DEMOLISHED MATERIALS FROM OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM.
15. REMOVE, STORE, CLEAN, REINSTALL, RECONNECT, AND MAKE OPERATIONAL ALL COMPONENTS INDICATED FOR RELOCATION.
16. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR OPERATING FACILITIES EXCEPT WHEN AUTHORIZED IN WRITING BY OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES AS ACCEPTABLE BY OWNER AND AUTHORITY HAVING JURISDICTION.
17. SEAL ALL UNUSED OPENINGS DUE TO REMOVAL OF ELECTRICAL EQUIPMENT TO MATCH EXISTING CONSTRUCTION. ALL UNUSED OPENINGS IN FIRE RATED WALLS SHALL BE SEALED WITH A UL LISTED FIRE SEALING SYSTEM TO MATCH THE EXISTING FIRE RATING.
18. PROPERLY CLOSE ALL UNUSED OPENINGS IN ELECTRICAL ENCLOSURES AND BOXES DUE TO REMOVAL OF ELECTRICAL MATERIALS.
19. CONTRACTOR SHALL REMOVE AND INSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR. CONTRACTOR SHALL RECORD EXISTING DAMAGE PRIOR TO BEGINNING REMOVAL.
20. BALLASTS MANUFACTURED PRIOR TO 1980 CONTAIN PCB's AND SHALL BE DISPOSED OF BY A FEDERAL OR STATE E.P.A. APPROVED METHOD AND IN ACCORDANCE WITH SPECIFICATIONS.
21. FLUORESCENT LAMPS CONTAIN MERCURY AND SHALL BE DISPOSED OF BY A FEDERAL OR STATE E.P.A. APPROVED METHOD AND IN ACCORDANCE WITH SPECIFICATIONS.
22. WHERE TELECOMMUNICATIONS OUTLETS (VOICE/DATA/CATV ETC.) ARE BEING REMOVED, ALL ASSOCIATED CONDUIT AND WIRE BACK TO THE TERMINATION EQUIPMENT SERVING THE DEVICE SHALL ALSO BE REMOVED.
23. WHERE LOW-VOLTAGE SYSTEM CABLING (VOICE/DATA/CATV ETC.) IS EXISTING TO REMAIN, AND SUPPORT METHODS ARE BEING REMOVED, CABLING MUST BE PROPERLY SUPPORTED AND PROTECTED DURING ALL DEMOLITION AND NEW CONSTRUCTION ACTIVITIES. PROVIDE NEW PERMANENT SUPPORT OF ANY CABLING THAT IS NOT OF SUFFICIENT LENGTH FOR EXISTING ROUTE AND A MODIFIED ROUTE IS NECESSARY.

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Revisions

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SPRING CREEK ELEMENTARY SCHOOL
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