

ADD. No. 5 DECEMBER 20, 2024

ISSUED FOR DATE

PROJECT TITLE
LOY NORRIX HIGH SCHOOL MECHANICAL IMPROVEMENTS PROJECT

OWNER
KALAMAZOO PUBLIC SCHOOLS

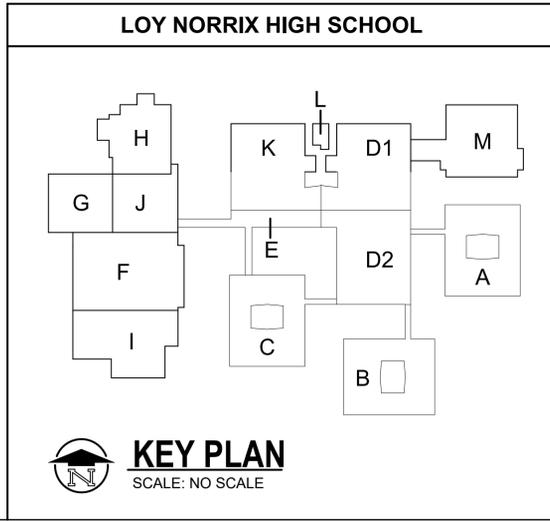
Kalamazoo, Michigan

SHEET TITLE
OVERALL LOWER LEVEL FLOOR PLAN

DATE
DECEMBER 9, 2024

SHEET NUMBER
G 100

21-807.07



2015 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS:
Section 503 Alteration - Level 1
503.1 Scope.
Level 1 alterations include the removal and replacement or the covering of existing materials, elements, equipment, or fixtures using new materials, elements, equipment, or fixtures that serve the same purpose.

503.2 Application.
Level 1 alterations shall comply with the provisions of Chapter 7.

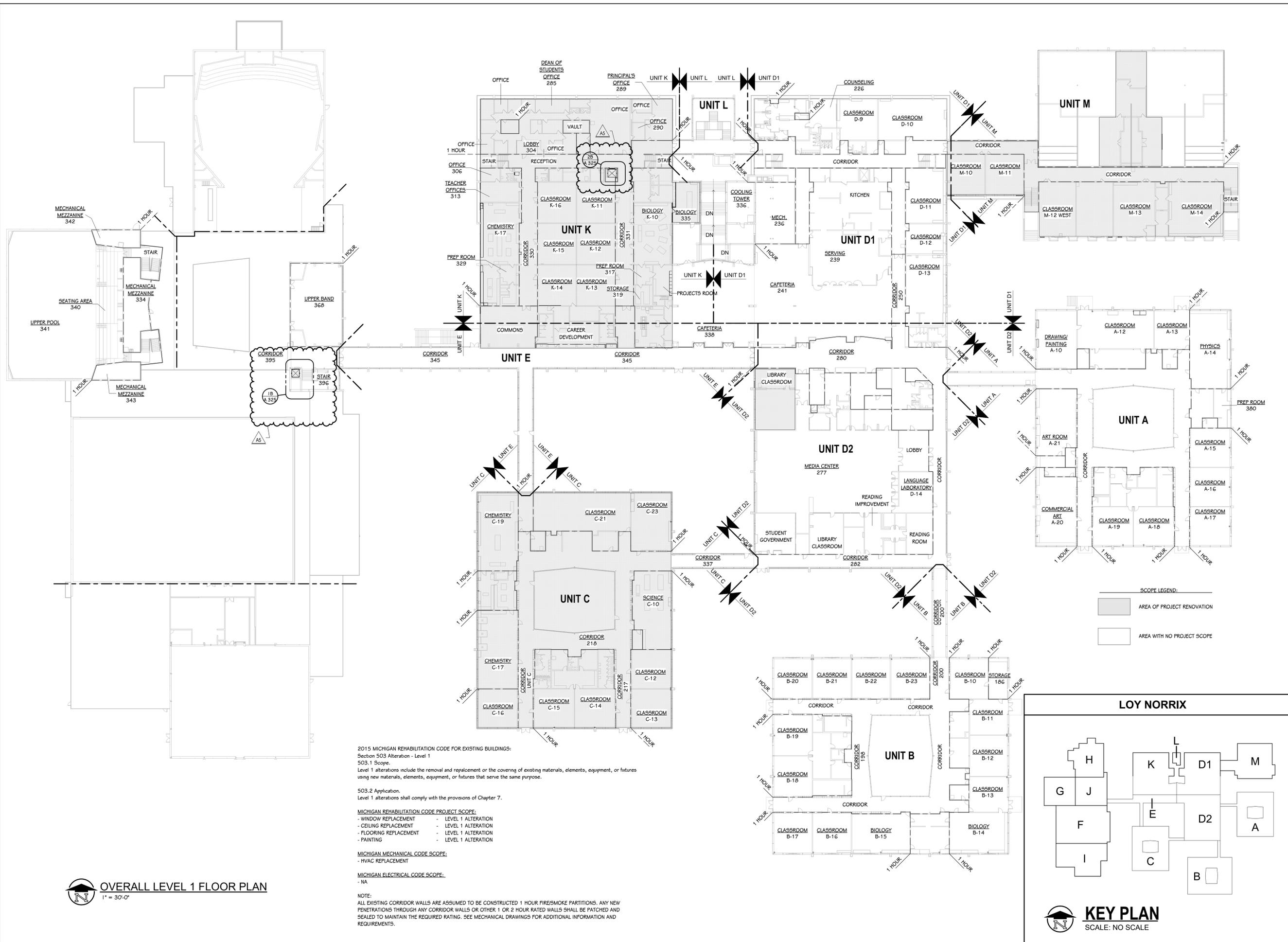
MICHIGAN REHABILITATION CODE PROJECT SCOPE:
- WINDOW REPLACEMENT - LEVEL 1 ALTERATION
- CEILING REPLACEMENT - LEVEL 1 ALTERATION
- FLOORING REPLACEMENT - LEVEL 1 ALTERATION
- PAINTING - LEVEL 1 ALTERATION

MICHIGAN MECHANICAL CODE SCOPE:
- HVAC REPLACEMENT

MICHIGAN ELECTRICAL CODE SCOPE:
- NA

NOTE:
ALL EXISTING CORRIDOR WALLS ARE ASSUMED TO BE CONSTRUCTED 1 HOUR FIRE/SMOKE PARTITIONS. ANY NEW PENETRATIONS THROUGH ANY CORRIDOR WALLS OR OTHER 1 OR 2 HOUR RATED WALLS SHALL BE PATCHED AND SEALED TO MAINTAIN THE REQUIRED RATING. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

OVERALL LOWER LEVEL PLAN
1" = 30'-0"



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Section 503 Alteration - Level 1
503.1 Scope.
Level 1 alterations include the removal and replacement or the covering of existing materials, elements, equipment, or fixtures using new materials, elements, equipment, or fixtures that serve the same purpose.

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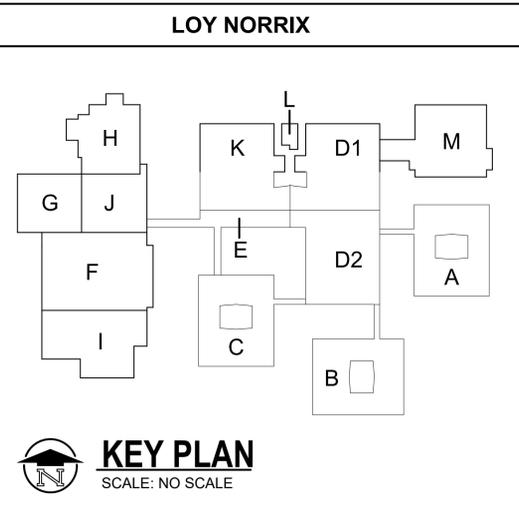
MICHIGAN REHABILITATION CODE PROJECT SCOPE:
- WINDOW REPLACEMENT - LEVEL 1 ALTERATION
- CEILING REPLACEMENT - LEVEL 1 ALTERATION
- FLOORING REPLACEMENT - LEVEL 1 ALTERATION
- PAINTING - LEVEL 1 ALTERATION

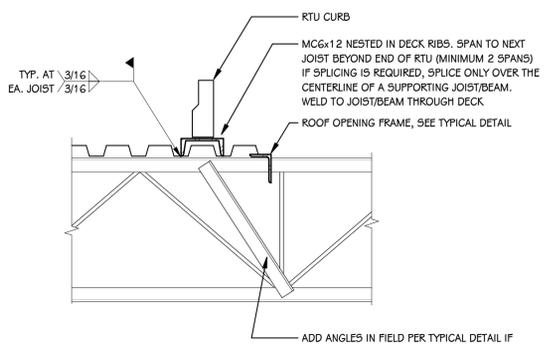
MICHIGAN MECHANICAL CODE SCOPE:
- HVAC REPLACEMENT

MICHIGAN ELECTRICAL CODE SCOPE:
- NA

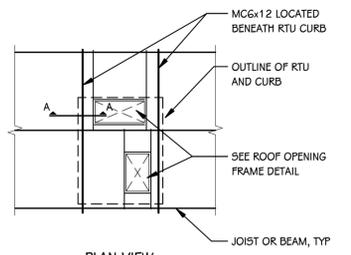
NOTE:
ALL EXISTING CORRIDOR WALLS ARE ASSUMED TO BE CONSTRUCTED 1 HOUR FIRE/SMOKE PARTITIONS. ANY NEW PENETRATIONS THROUGH ANY CORRIDOR WALLS OR OTHER 1 OR 2 HOUR RATED WALLS SHALL BE PATCHED AND SEALED TO MAINTAIN THE REQUIRED RATING. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

OVERALL LEVEL 1 FLOOR PLAN
1" = 30'-0"



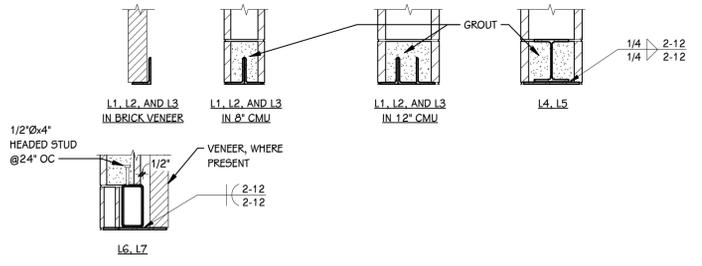


SECTION A-A



PLAN VIEW

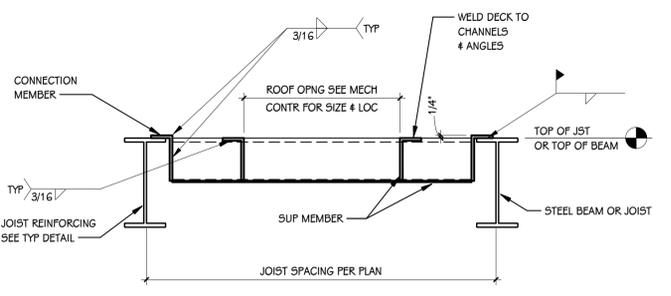
TYPICAL RTU SUPPORT
SCALE: NONE



LINTEL TYPE	LINTEL SIZE	NOTES
L1	L3 1/2x3 1/2x5/16 PER 4" NOMINAL MASONRY THICKNESS	
L2	L5x3 1/2x5/16 (LLV) PER 4" NOMINAL MASONRY THICKNESS	
L3	L6x3 1/2x5/16 (LLV) PER 4" NOMINAL MASONRY THICKNESS	
L4	W8x24 WITH 5/16" BOTTOM PLATE	PROVIDE BEARING PLATE EACH END PER TYPICAL BEAM BEARING DETAIL
L5	W8x15 WITH 5/16" BOTTOM PLATE	PROVIDE BEARING PLATE EACH END PER TYPICAL BEAM BEARING DETAIL
L6	HSS8x4x5/16 WITH 5/16" BOTTOM PLATE	PROVIDE BEARING PLATE EACH END PER TYPICAL BEAM BEARING DETAIL
L7	HSS8x8x5/16 WITH 3/8" BOTTOM PLATE	PROVIDE BEARING PLATE EACH END PER TYPICAL BEAM BEARING DETAIL

- NOTES:**
- THIS DETAIL AND SCHEDULE APPLIES TO OPENINGS WITHIN EXISTING MASONRY WALL CONSTRUCTION AND OPENINGS WITHIN BRICK VENEER, UNLESS NOTED OR DETAILED OTHERWISE.
 - ALL OPENINGS WIDER THAN 8" IN MASONRY WALLS REQUIRE LINTELS. NOT ALL LINTELS ARE SHOWN ON PLANS - REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS AND SIZES OF OPENINGS.
 - 8" LINTEL BEARING REQUIRED, EACH END.
 - ALL LINTELS WITHIN EXTERIOR WALLS SHALL BE GALVANIZED.
 - GROUT CMU SOLID BELOW LINTEL BEARING DOWN TO FOUNDATION.
 - FOR LINTEL TYPES L6 & L7, WHERE NO SECTION IS PROVIDED ON STRUCTURAL, COORDINATE WITH ARCHITECTURAL DETAILS AND WALL SECTIONS TO DETERMINE REQUIRED PLATE WIDTH AND POSITION OF LINTEL.
 - WHERE NO LINTEL DESIGNATION IS NOTED ON FRAMING PLANS, PROVIDE LINTEL AS FOLLOWS:
 - L1 FOR OPENINGS LESS THAN OR EQUAL TO 4' - 0" WIDE
 - L2 FOR OPENINGS LESS THAN OR EQUAL TO 5' - 8" WIDE
 - L3 FOR OPENINGS LESS THAN OR EQUAL TO 6' - 8" WIDE

STEEL LINTEL SCHEDULE
SCALE: NONE

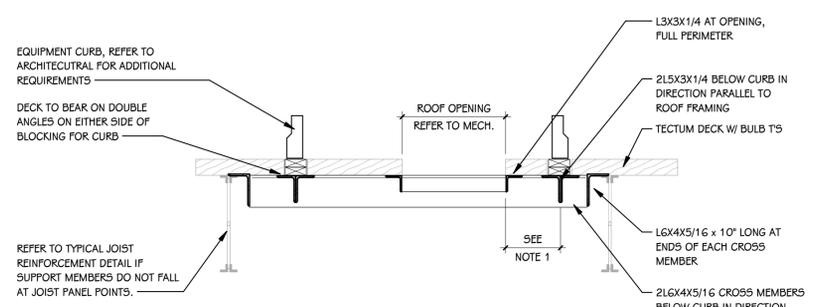


NOTE: ALL WELDING TO JOIST SHALL BE DONE WITH CARE SO AS NOT TO IMPAIR JOIST.

JOIST SPACING	SUPPORTING MEMBER	CONNECTING MEMBER
MAX 6'-0"	L3x3x1/4	L3x3x1/4x0'-6"
MAX 6'-0"	L5x3x1/4 LLV	L5x3x1/4 LLV x 6"
GREATER THAN 6'-0"	L5x3x1/4 LLV	L5x3x1/4 LLV x 6"
GREATER THAN 6'-0"	C6x8, 2	BENT PLATE 8x3x1/4 (LLV) x 8"

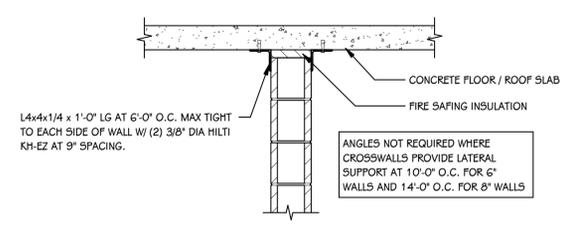
- COORDINATE LOCATION & SIZE OF OPENINGS WITH MECHANICAL CONTRACTOR.
- ALL FRAMING LOCATED BELOW ROOF FRAMING IS TO BE PRIME PAINTED PER DIVISION 05 AND FINISH COAT PER DIVISION 09.

TYPICAL ROOF OPENING FRAME DETAIL
SCALE: NONE



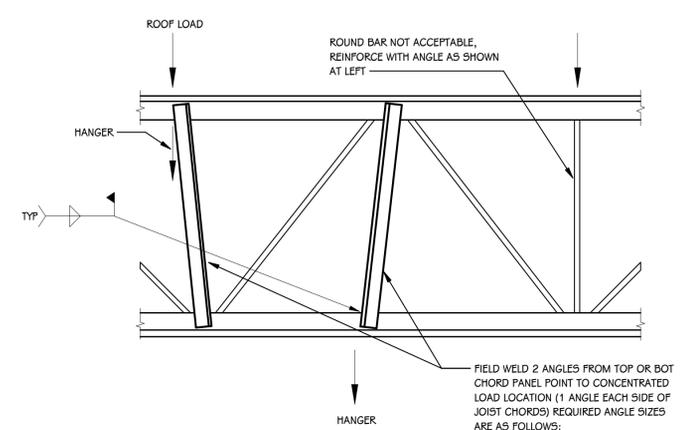
- NOTES:**
- IF DISTANCE BETWEEN EDGE OF OPENING AND RTU SUPPORT MEMBER IS LESS THAN 6", L3x3 ANGLE MAY BE ELIMINATED AND DECK FULLY REMOVED WITHIN THE PERIMETER OF THE SUPPORTING MEMBERS.
 - COORDINATE LOCATION AND SIZE OF OPENINGS WITH APPROVED MECHANICAL SHOP DRAWINGS.
 - ALL FRAMING LOCATED BELOW ROOF FRAMING IS TO BE PRIME PAINTED PER DIVISION 05 AND FINISH COAT PER DIVISION 09.

TYPICAL EQUIPMENT SUPPORT FRAME AT TECTUM DECK
SCALE: NONE



WALL PERPENDICULAR TO JOIST/BEAM

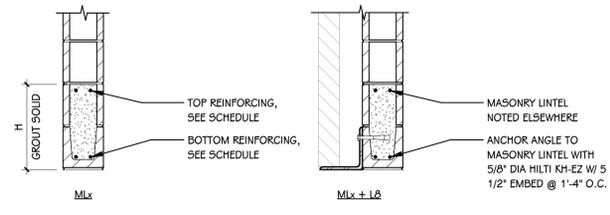
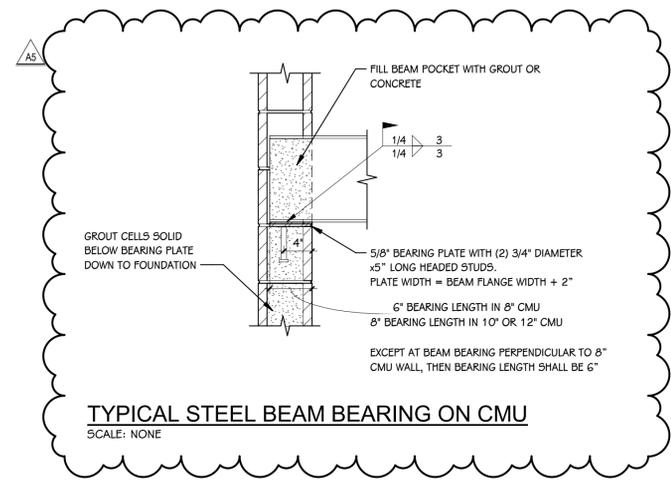
TYPICAL TOP SUPPORT OF MASONRY WALL
SCALE: NONE



JOIST DEPTH	ANGLE SIZE
8" TO 24"	L1 1/2x1 1/2x3/16
26" TO 48"	L2x2x3/16
52" TO 72"	L3x3x1/4

MODIFICATION IS TYP FOR ALL JOIST SUPPORTING LOAD FROM TOP OR BOTTOM CHORD BETWEEN PANEL POINT. VERIFY LOC & # OF LOADS WITH ARCH, MECH, PLMB, ELEC DRAWINGS. ANGLES NOT REQD FOR CONCENTRATED LOADS LESS THAN 100 LBS.

TYPICAL JOIST MODIFICATION AT CONCENTRATED LOADS
SCALE: NONE



LINTEL TYPE	DEPTH 'H'	BOTTOM REINFORCING	TOP REINFORCING
ML1	8"	(2) #5	-
ML2	16"	(2) #5	-
ML3	24"	(2) #5	(2) #5
ML4	32"	(2) #5	(2) #5

- NOTES:**
- ALL OPENINGS WIDER THAN 8" IN MASONRY WALLS REQUIRE LINTELS. NOT ALL LINTELS ARE SHOWN ON PLANS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS AND SIZES OF OPENINGS.
 - EXTEND HORIZONTAL REINFORCING AND LINTEL GROUTING 1'-0" PAST EDGES OF OPENING.
 - LINTEL COURSES SHALL BE GROUTED IN ONE SOLID LIFT.
 - GROUT ALL CELLS SOLID BELOW LINTEL BEARING DOWN TO FOUNDATION.
 - WHERE NO LINTEL DESIGNATION IS NOTED ON FRAMING PLANS WITHIN NEW MASONRY WALLS PROVIDE LINTELS AS FOLLOWS:
 - ML1 FOR OPENINGS LESS THAN OR EQUAL TO 3'-4" WIDE
 - ML2 FOR OPENINGS LESS THAN OR EQUAL TO 7'-4" WIDE
 - L6 SHALL BE L6x8x1/2, ANCHOR STEEL ANGLE TO MASONRY LINTEL, 8" LINTEL BEARING REQUIRED EACH END.

MASONRY LINTEL SCHEDULE
SCALE: NONE

ADD. No. 5 DECEMBER 20, 2024
Addendum No. 2 November 5, 2024

ISSUED FOR DATE

PROJECT TITLE
LOY NORRICH HIGH SCHOOL MECHANICAL IMPROVEMENTS PROJECT

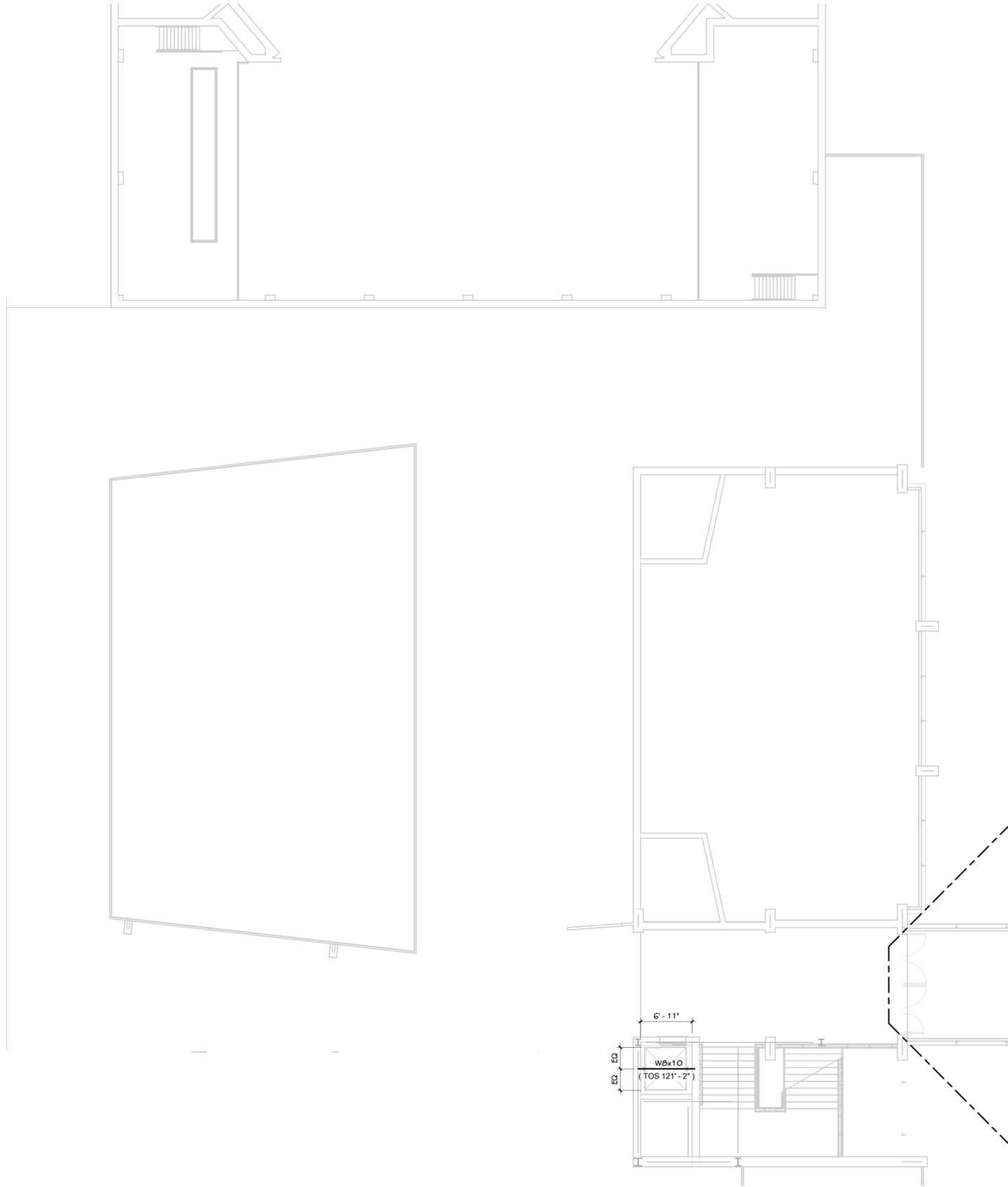
OWNER
KALAMAZOO PUBLIC SCHOOLS

Kalamazoo, Michigan

SHEET TITLE
TYPICAL DETAILS

DATE
SEPTEMBER 16, 2024

SHEET NUMBER
S 002
21-807.00



 **ROOF FRAMING PLAN - UNIT J**
1/8" = 1'-0"

KEYED NOTES - FRAMING

- 1 PROVIDE CHANNELS BENEATH EACH MECHANICAL UNIT. REFER TO TYPICAL RTU SUPPORT DETAIL FOR MORE INFORMATION.
- 2 NEW JOISTS TO BE INSTALLED BETWEEN EXISTING. PROVIDE SPLICE IF REQUIRED FOR INSTALLATION. JOIST SUPPLIER TO DESIGN TOP CHORDS AS FULL UNBRACED BY METAL DECK.
- 3 PROVIDE SLOPED JOIST SEATS AS REQUIRED DUE TO SLOPED ROOF.
- 4 REMOVE CONCRETE SLAB BETWEEN CONCRETE JOISTS FOR MECHANICAL DUCT PENETRATIONS.
- 5 PROVIDE FRAMING BENEATH NEW MECHANICAL HOODS. REFER TO TYPICAL ROOF OPENING DETAIL FOR REQUIRED FRAMING.
- 6 AHU-M2 TO BE SUPPORTED FROM EXISTING HANGERS. VERIFY THAT A MINIMUM OF TWO BAR JOISTS ARE ENGAGED BY SUPPORT FRAMING.
- 7 REFER TO SECTIONS 4/5301 AND 5/5301 FOR ADDITIONAL STEEL REQUIRED FOR SLAB SUPPORT AT THIS PENETRATION.
- 8 PROVIDE L5 LINTEL AT 1ST FLOOR AND 2ND FLOOR DOOR OPENINGS

ADD. No. 5 DECEMBER 20, 2024

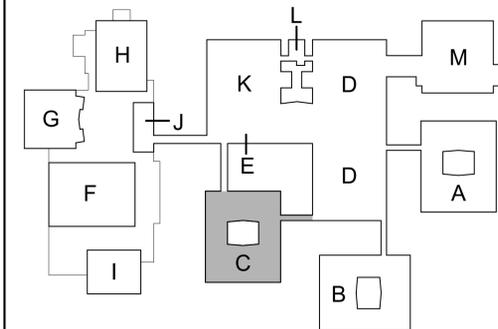
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PROJECT TITLE
LOY NORRIS HIGH
SCHOOL MECHANICAL
IMPROVEMENTS
PROJECT

OWNER
KALAMAZOO PUBLIC
SCHOOLS

Kalamazoo, Michigan

KEY PLAN

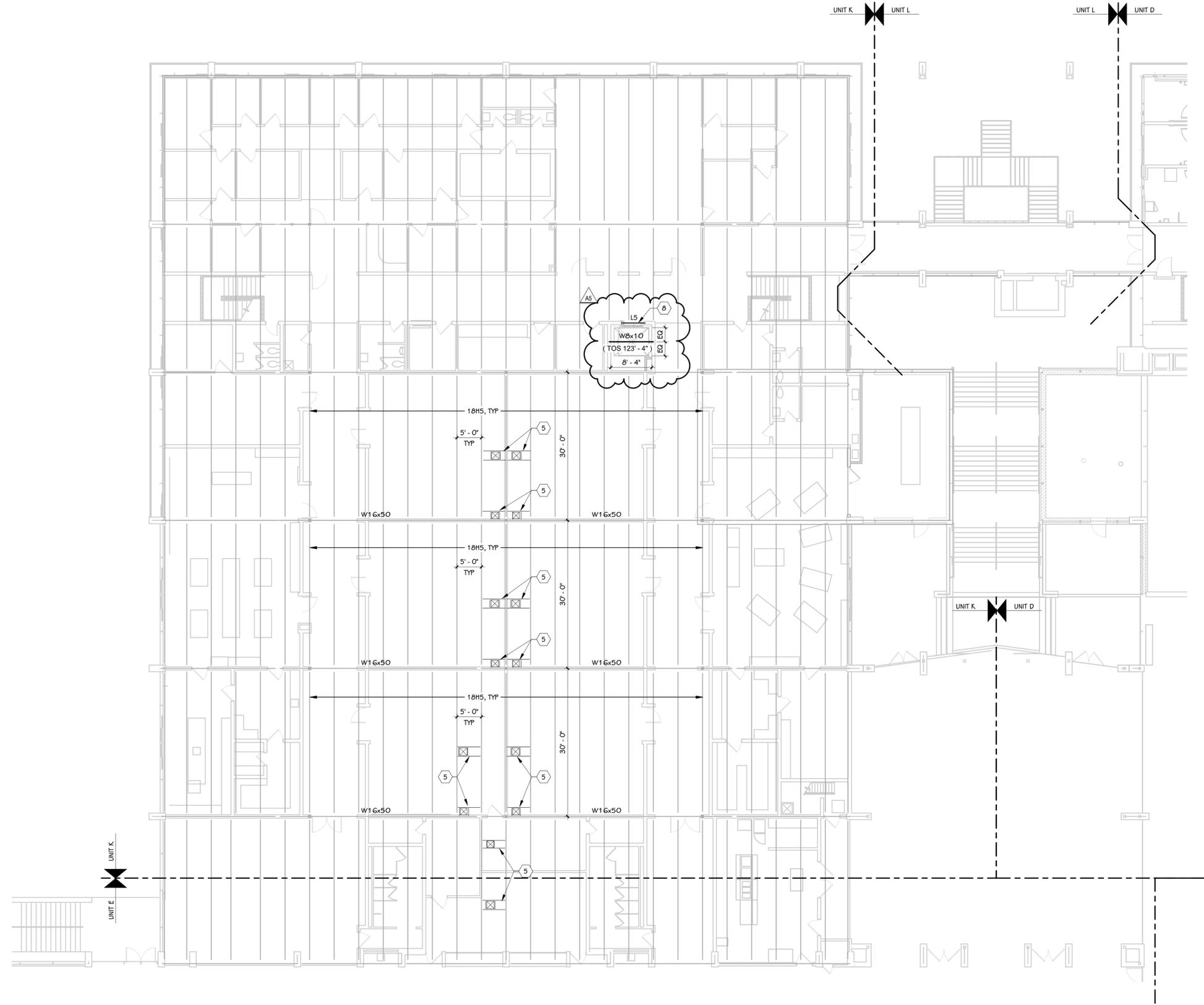


KEY PLAN
SCALE: NO SCALE

SHEET TITLE
ROOF FRAMING PLAN - UNIT J

DATE
SEPTEMBER 16, 2024

SHEET NUMBER
S 202J
21-807.00



ROOF FRAMING PLAN - UNIT K
3/32" = 1'-0"

KEYED NOTES - FRAMING

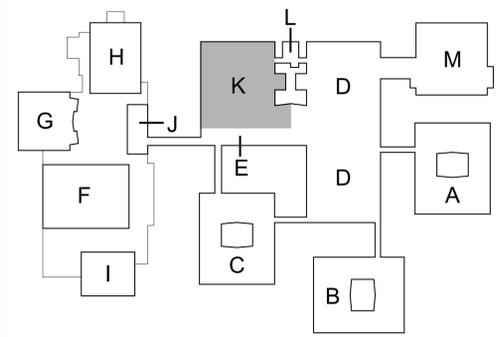
- 1 PROVIDE CHANNELS BENEATH EACH MECHANICAL UNIT. REFER TO TYPICAL RTU SUPPORT DETAIL FOR MORE INFORMATION.
- 2 NEW JOISTS TO BE INSTALLED BETWEEN EXISTING. PROVIDE SPLICE IF REQUIRED FOR INSTALLATION. JOIST SUPPLIER TO DESIGN TOP CHORDS AS FULL UNBRACED BY METAL DECK.
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LOY NORRIS HIGH SCHOOL MECHANICAL IMPROVEMENTS PROJECT

OWNER
KALAMAZOO PUBLIC SCHOOLS
Kalamazoo, Michigan

KEY PLAN



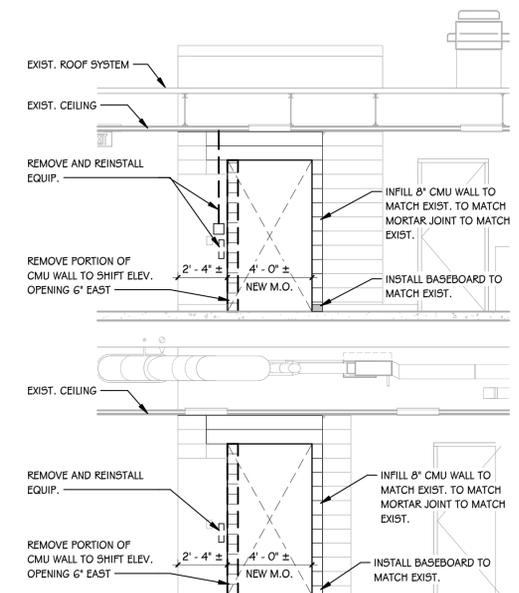
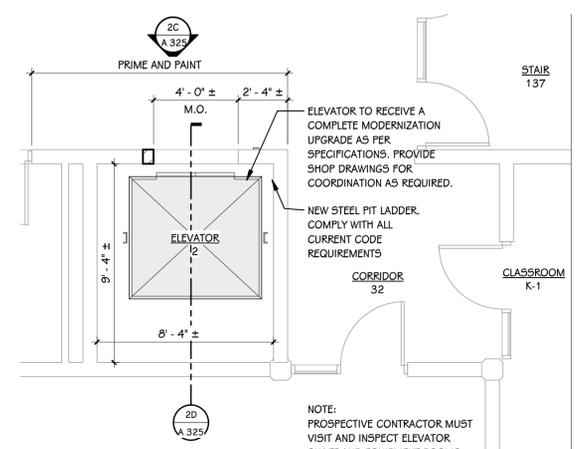
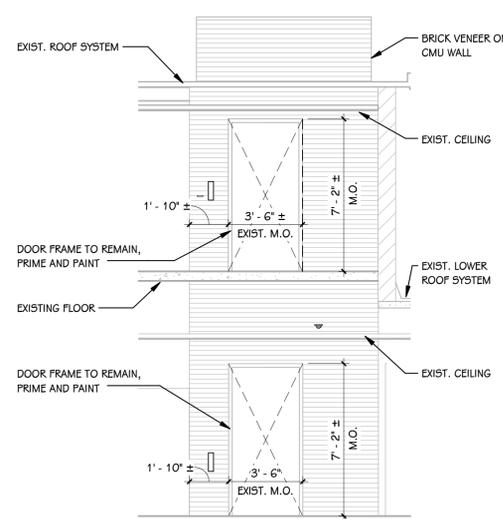
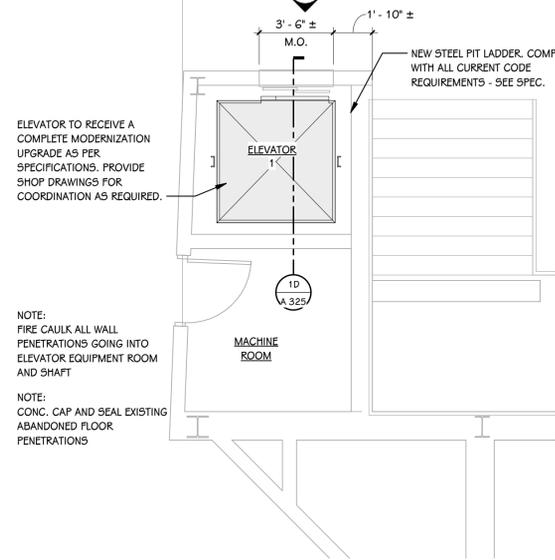
KEY PLAN
SCALE: NO SCALE

SHEET TITLE
ROOF FRAMING PLAN - UNIT K

DATE
SEPTEMBER 16, 2024

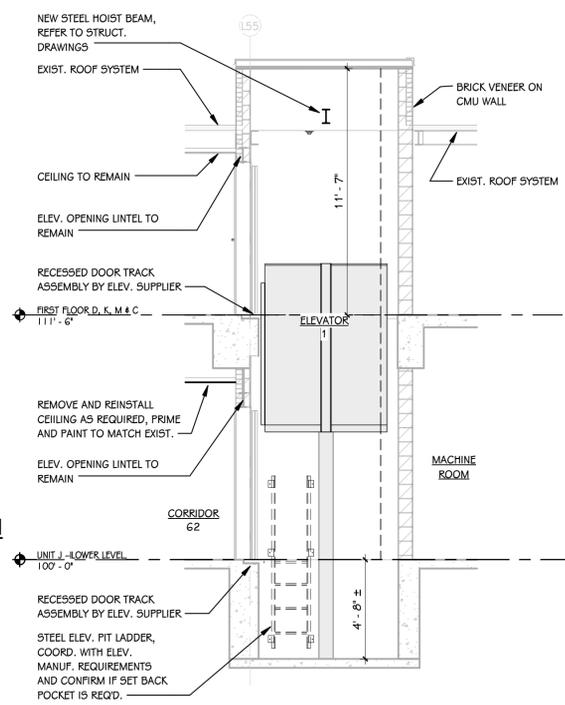
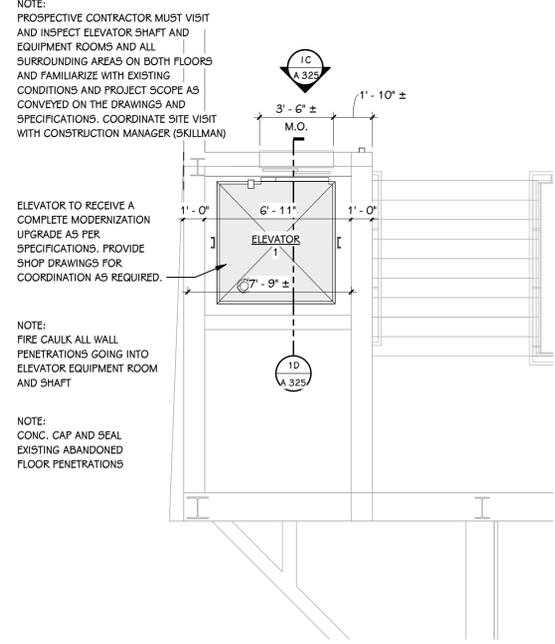
SHEET NUMBER
S 202K
21-807.00

NOTE:
PROSPECTIVE CONTRACTOR MUST VISIT AND INSPECT ELEVATOR SHAFT AND EQUIPMENT ROOMS ON BOTH FLOORS AND FAMILIARIZE WITH EXISTING CONDITIONS AND PROJECT SCOPE AS CONVEYED ON THE DRAWINGS AND SPECIFICATIONS. COORDINATE SITE VISIT WITH CONSTRUCTION MANAGER (SKILLMAN)

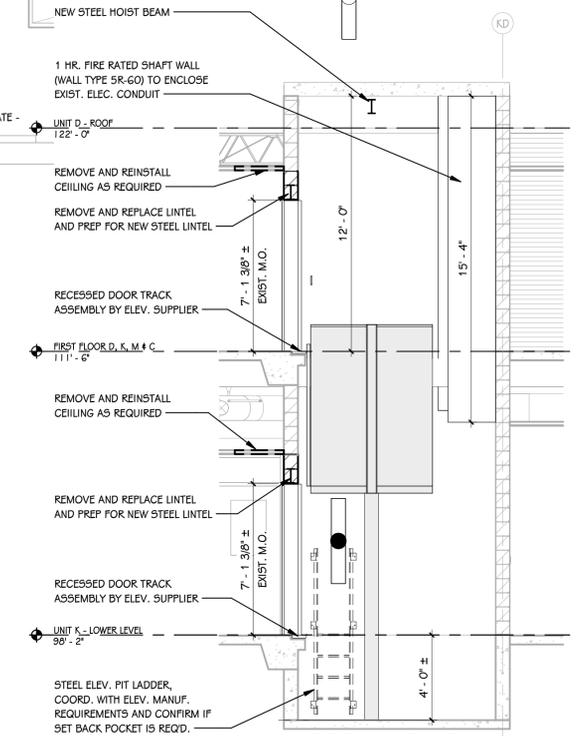
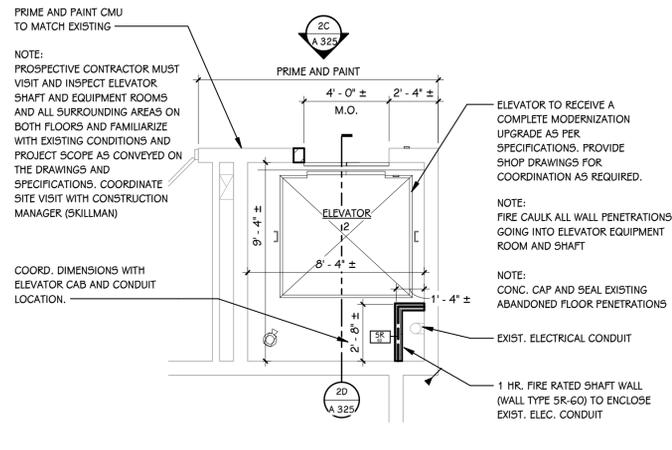


1A
A 325
1/4" = 1'-0"

1C
A 325
1/4" = 1'-0"



2A
A 325
1/4" = 1'-0"



1B
A 325
1/4" = 1'-0"

1D
A 325
1/4" = 1'-0"

2B
A 325
1/4" = 1'-0"

2D
A 325
1/4" = 1'-0"



P-1 (ELEVATOR NO.1 - FIRST FLOOR)

NOTE: ELEVATOR NO.1 TO RECEIVE A COMPLETE MODERNIZATION UPGRADE AS PER SPECIFICATIONS

REMOVE ELEVATOR IN ITS ENTIRETY AND PREPARE FOR NEW MASONRY OPENING, REFER TO SHEET A325. DOOR FRAMES TO REMAIN. DOOR FRAMES TO BE PRIMED AND PAINTED.

NEW DOOR RAILS AND DOOR SILL.

MODIFY TILE IF NEEDED. PATCH TO MATCH EXISTING.

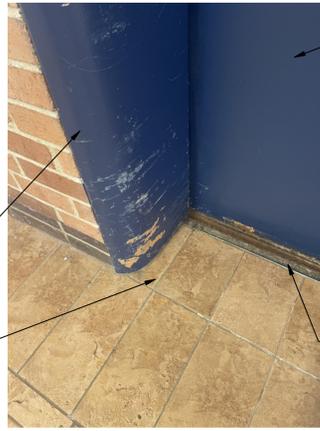


P-2 (ELEVATOR NO.1 - FIRST FLOOR)

REMOVE AND SALVAGE CEILING TILE AS REQUIRED, CEILING TO BE REINSTALLED

DOOR FRAMES TO REMAIN. DOOR FRAMES TO BE PRIMED AND PAINTED.

PATCH AND REPAIR TILE FLOORING TO MATCH EXIST. IF NEEDED.



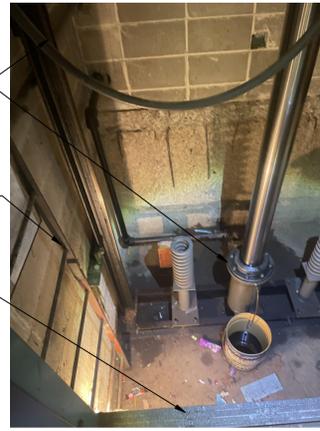
P-3 (ELEVATOR NO.1 - FIRST FLOOR)

REMOVE ELEVATOR IN ITS ENTIRETY AND PREPARE FOR NEW MASONRY OPENING, REFER TO SHEET A325

REMOVE PIT LADDER AND PREP FOR NEW, COORD. WITH NEW CONSTRUCTION

PREP. FOR NEW DOOR TRACK BY ELEV. SUPPLIER

NEW DOOR RAILS AND DOOR SILL.



P-4 (ELEVATOR NO.1 - FIRST FLOOR)

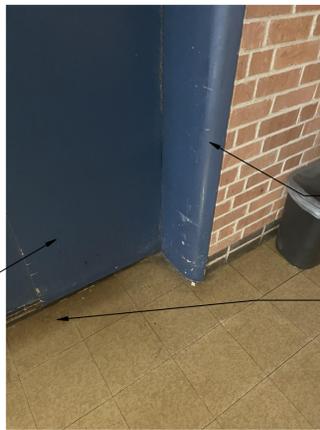


P-5 (ELEVATOR NO.1 - SECOND FLOOR)

REMOVE EXISTING CEILING AS REQUIRED AND INSTALL NEW TO MATCH EXISTING.

REMOVE ELEVATOR IN ITS ENTIRETY AND PREPARE FOR NEW MASONRY OPENING, REFER TO SHEET A325

DOOR FRAMES TO REMAIN. DOOR FRAMES TO BE PRIMED AND PAINTED.



P-6 (ELEVATOR NO.1 - SECOND FLOOR)

ROOF DECK TO REMAIN

REMOVE ELEVATOR IN ITS ENTIRETY AND PREPARE FOR NEW MASONRY OPENING, REFER TO SHEET A325

DOOR FRAMES TO REMAIN. DOOR FRAMES TO BE PRIMED AND PAINTED.

PATCH AND REPAIR TILE FLOORING TO MATCH EXIST. FOLLOWING NEW ELEVATOR INSTALLATION



P-7 (ELEVATOR NO.1 - SECOND FLOOR)



P-13 (ELEVATOR NO.2 - MACHINE ROOM)



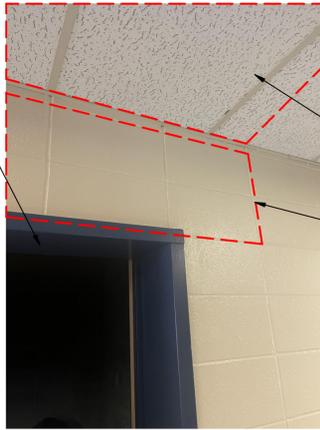
P-8 (ELEVATOR NO.2)

NOTE: ELEVATOR NO.2 TO RECEIVE A COMPLETE MODERNIZATION UPGRADE AS PER SPECIFICATIONS

REMOVE ELEVATOR IN ITS ENTIRETY AND PREPARE FOR NEW MASONRY OPENING, REFER TO SHEET A325

REMOVE AND RESINSTALL WALL MOUNTED EQUIPMENT, COORD. WITH NEW MASONRY OPENING

PATCH AND REPAIR V.C.T. FLOORING TO MATCH EXIST. FOLLOWING ELEVATOR INSTALLATION

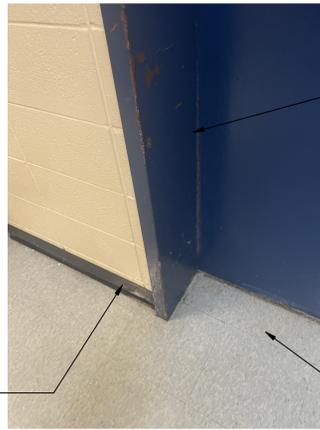


P-9 (ELEVATOR NO.2)

REMOVE AND SALVAGE CEILING TILE AS REQUIRED, CEILING TO BE REINSTALL

REMOVE PORTION OF CMU WALL AS REQUIRED TO ALLOW FOR NEW STEEL LINTEL AND PLATE INSTALLATION OVER NEW ELEVATOR OPENING

REMOVE AND SALVAGE BASEBOARD AS REQUIRED, BASEBOARD TO BE REINSTALL

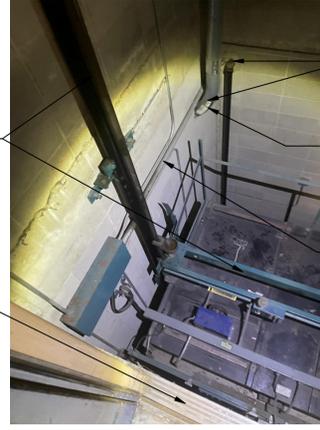


P-10 (ELEVATOR NO.2)

REMOVE ELEVATOR IN ITS ENTIRETY AND PREPARE FOR NEW MASONRY OPENING, REFER TO SHEET A325

PREP. FOR NEW DOOR TRACK BY ELEV. SUPPLIER

PATCH AND REPAIR V.C.T. FLOORING TO MATCH EXIST. FOLLOWING NEW ELEVATOR INSTALLATION



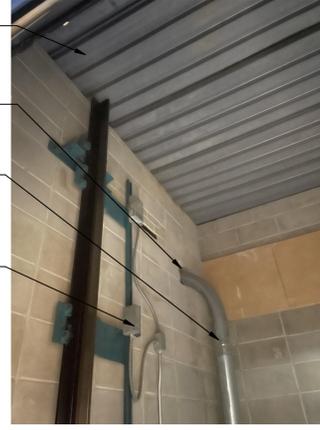
P-11 (ELEVATOR NO.2)

METAL ROOF DECK TO REMAIN

FIRE CAULK ALL WALL PENETRATIONS GOING INTO ELEVATOR EQUIPMENT ROOM AND SHAFT, TYP.

INSTALL 1 HOUR SHAFT WALL AROUND ENTIRE EXIST. ELECTRICAL CONDUIT, REFER TO PLANS

REFER TO ELECTRICAL DRAWINGS FOR FULL ELECTRICAL SCOPE



P-12 (ELEVATOR NO.2)

SHEET TITLE ELEVATOR MODERNIZATION PICTURES

OWNER KALAMAZOO PUBLIC SCHOOLS

PROJECT TITLE LOY NORRIS HIGH SCHOOL MECHANICAL IMPROVEMENTS PROJECT

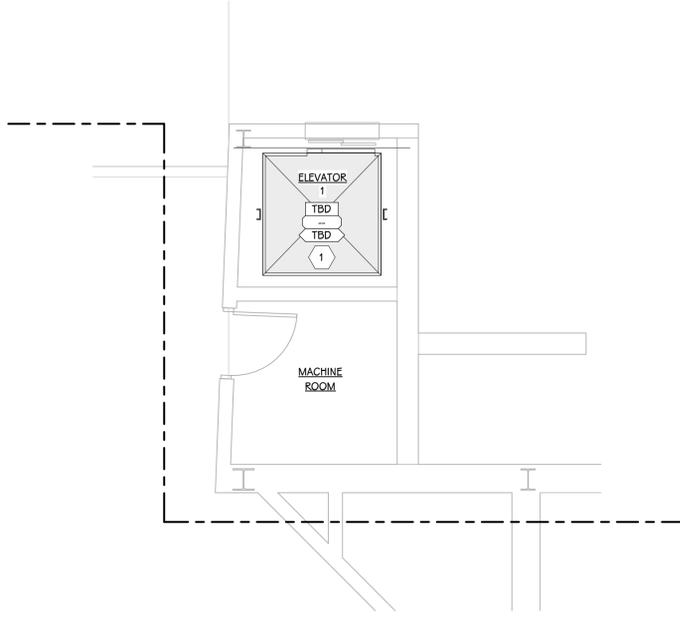
ADD. No. 5 DECEMBER 20, 2024
ISSUED FOR DATE

DATE DECEMBER 9, 2024

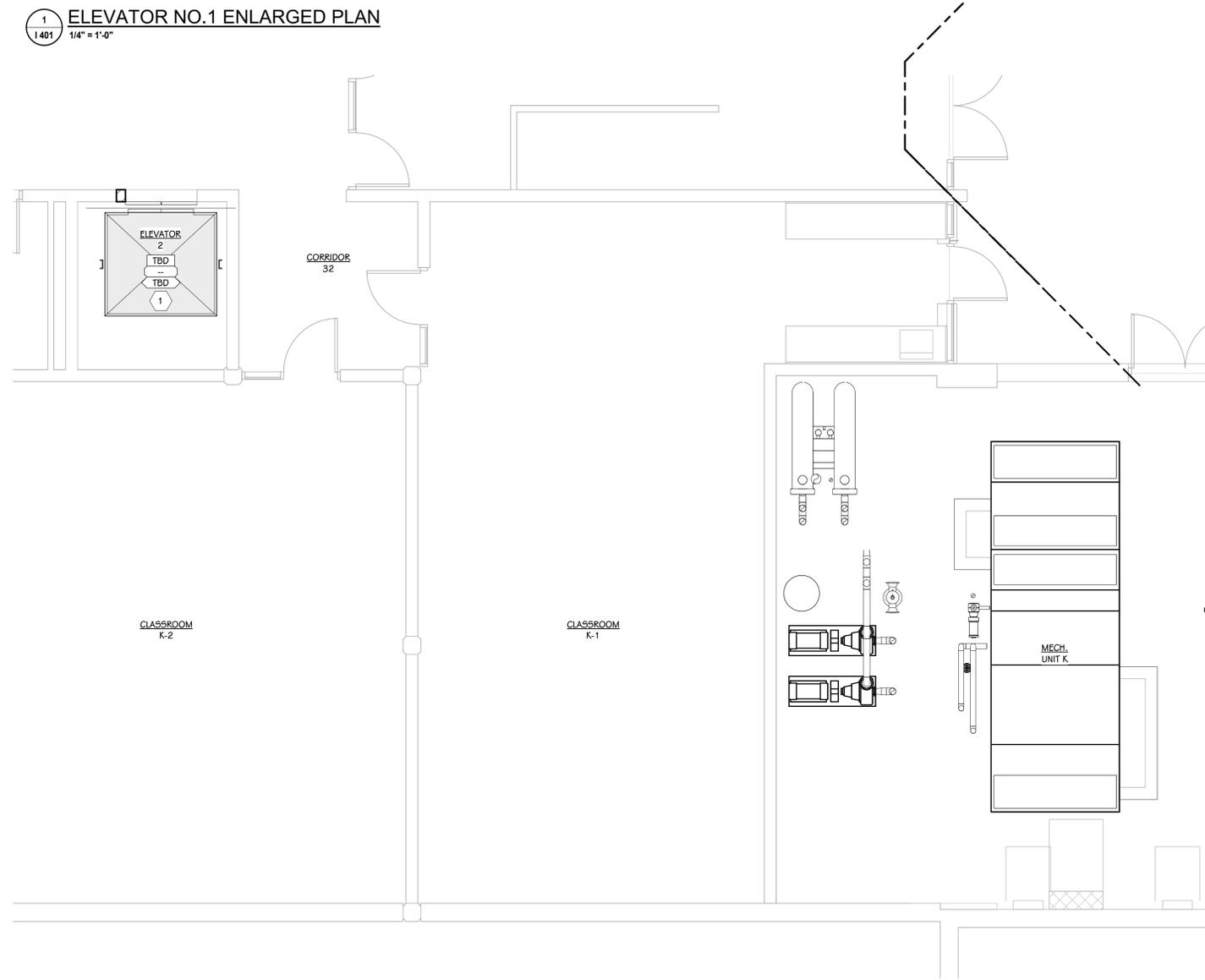
SHEET NUMBER A 326 21-807.07

KEYED NOTES - FINISH PLAN

1 FINISHES TO BE SELECTED BY OWNER



1 ELEVATOR NO.1 ENLARGED PLAN
1/4" = 1'-0"



2 ELEVATOR NO.2 ENLARGED PLAN
1/4" = 1'-0"

ADD. No. 5 DECEMBER 20, 2024

ISSUED FOR DATE

PROJECT TITLE
LOY NORRIS HIGH
SCHOOL MECHANICAL
IMPROVEMENTS
PROJECT

OWNER
KALAMAZOO PUBLIC
SCHOOLS

Kalamazoo, Michigan

SHEET TITLE
ENLARGED ELEVATOR PLANS

DATE
DECEMBER 16, 2024

AS

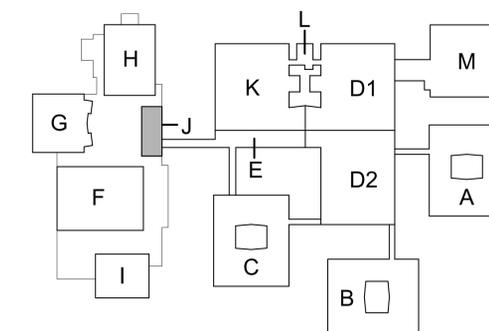
SHEET NUMBER
1401
21-807.07

ELECTRICAL DEMOLITION KEYED NOTES

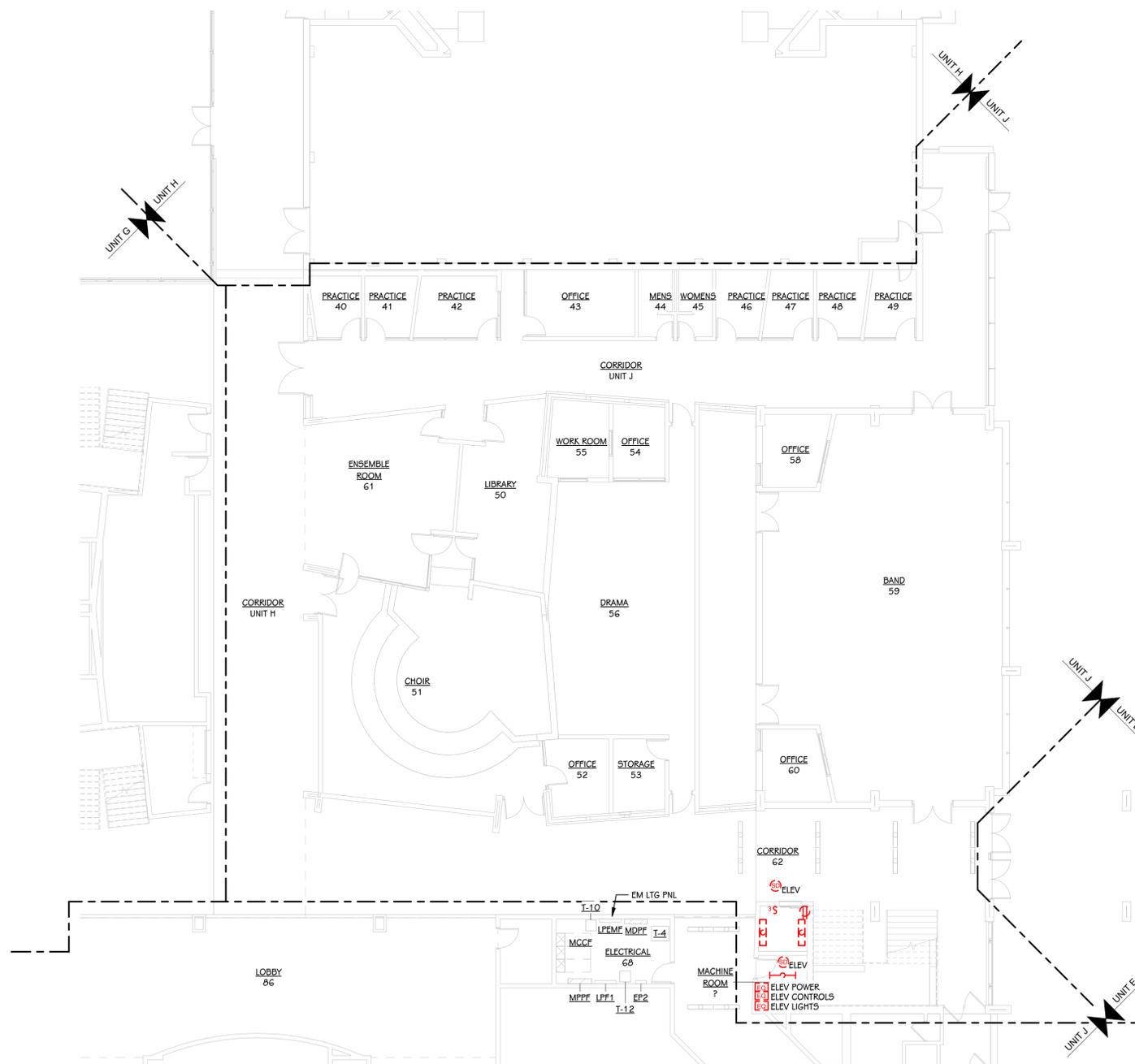
- 1 PROVIDE TEMPORARY SUPPORT FOR EXISTING LIGHT FIXTURES WITH THE SPACE. REUSE EXISTING LIGHT FIXTURES IN SAME LOCATION WITHIN SPACE. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION.
- 2 REMOVE THE ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT AND ALL ASSOCIATED WIRE AND CONDUIT BACK TO NEAREST JUNCTION BOX. RETAIN CIRCUIT FOR REUSE.
- 3 REMOVE THE ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT AND ALL ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE.
- 4 REMOVE THE ELECTRICAL CONNECTION TO ACCU AND ALL WIRE BACK TO SOURCE. RETAIN CONDUIT FOR NEW CIRCUIT. REPLACE BREAKERS IN PANELS LPB2 AND LPC3 AS SHOWN IN NEW PANEL SCHEDULE.
- 5 REMOVE CONNECTION TO BI-POLAR IONIZATION. COORDINATE WITH MECHANICAL AS REQUIRED TO INSTALL EXISTING BI-POLAR IONIZATION IN NEW EQUIPMENT. EXTEND AND REWORK AS REQUIRED FOR A COMPLETE INSTALLATION.
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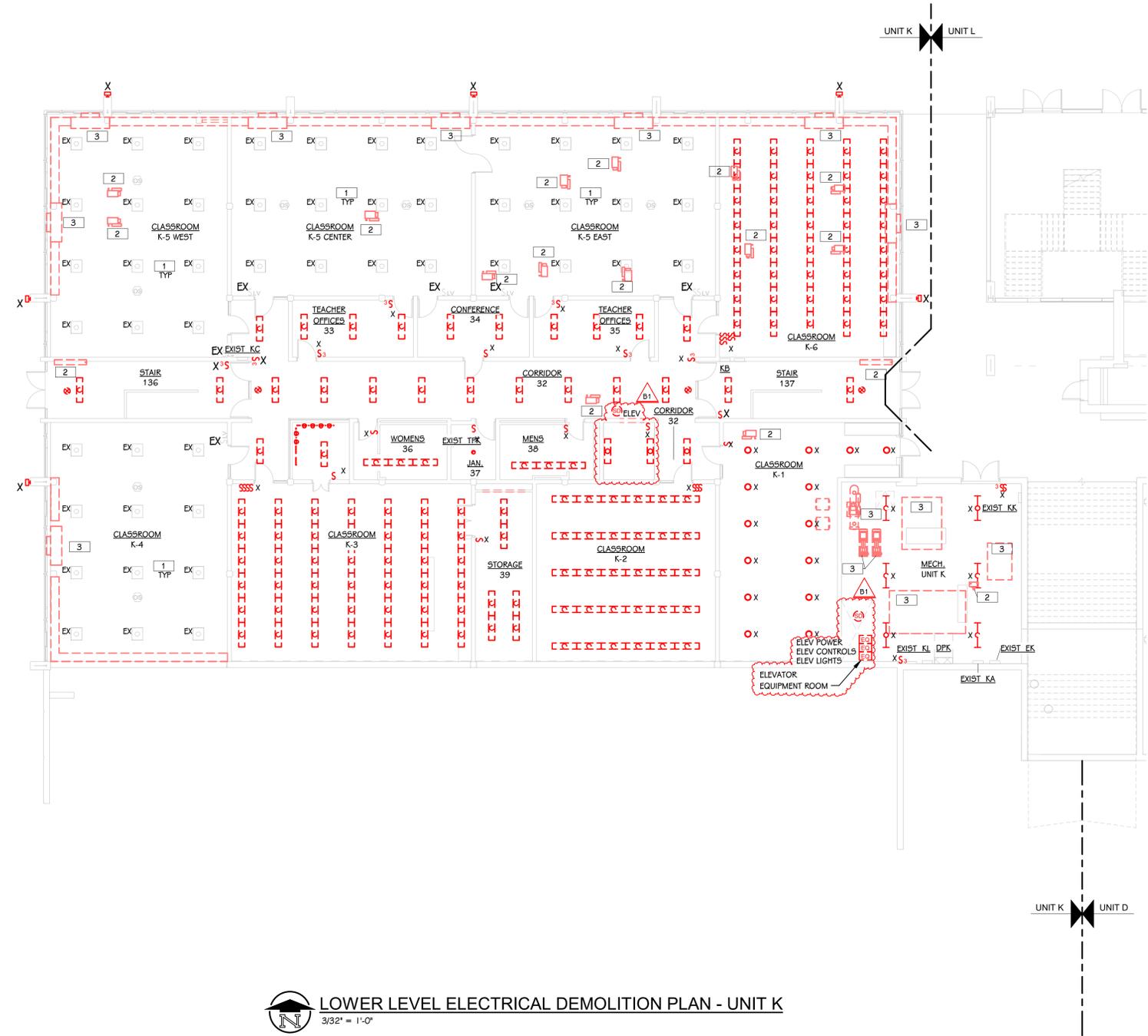
LEVEL 1 - KEY PLAN



KEY PLAN
SCALE: NO SCALE



LOWER LEVEL ELECTRICAL DEMOLITION PLAN - UNIT J
3/32" = 1'-0"



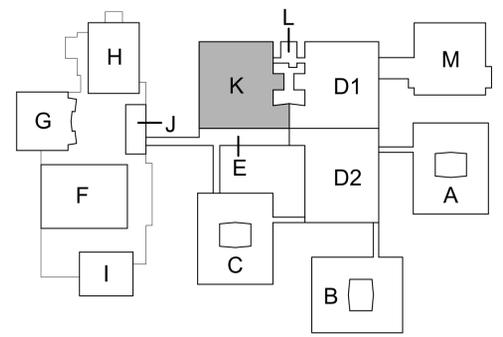
LOWER LEVEL ELECTRICAL DEMOLITION PLAN - UNIT K
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LEVEL 1 - KEY PLAN



KEY PLAN
 SCALE: NO SCALE

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BULLETIN NO. 1 December 16, 2024
 ADDENDUM NO. 3 December 6, 2024

ISSUED FOR _____ DATE _____

PROJECT TITLE
 LOY NORRIS HIGH SCHOOL MECHANICAL IMPROVEMENTS PROJECT

OWNER
 KALAMAZOO PUBLIC SCHOOLS
 Kalamazoo, Michigan

SHEET TITLE
 LOWER LEVEL ELECTRICAL DEMOLITION PLAN - UNIT K

SHEET NUMBER
ED 100K
 21-807.00

DATE
 SEPTEMBER 16, 2024

PROJECT TITLE
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SCHOOL MECHANICAL
IMPROVEMENTS
PROJECT

OWNER
KALAMAZOO PUBLIC
SCHOOLS
Kalamazoo, Michigan

SHEET TITLE
LEVEL 1 ELECTRICAL DEMOLITION PLAN
- UNIT J

DATE
SEPTEMBER 16, 2024

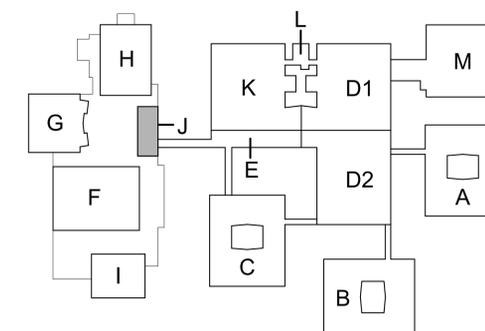
SHEET NUMBER
ED 101J
21-807.00

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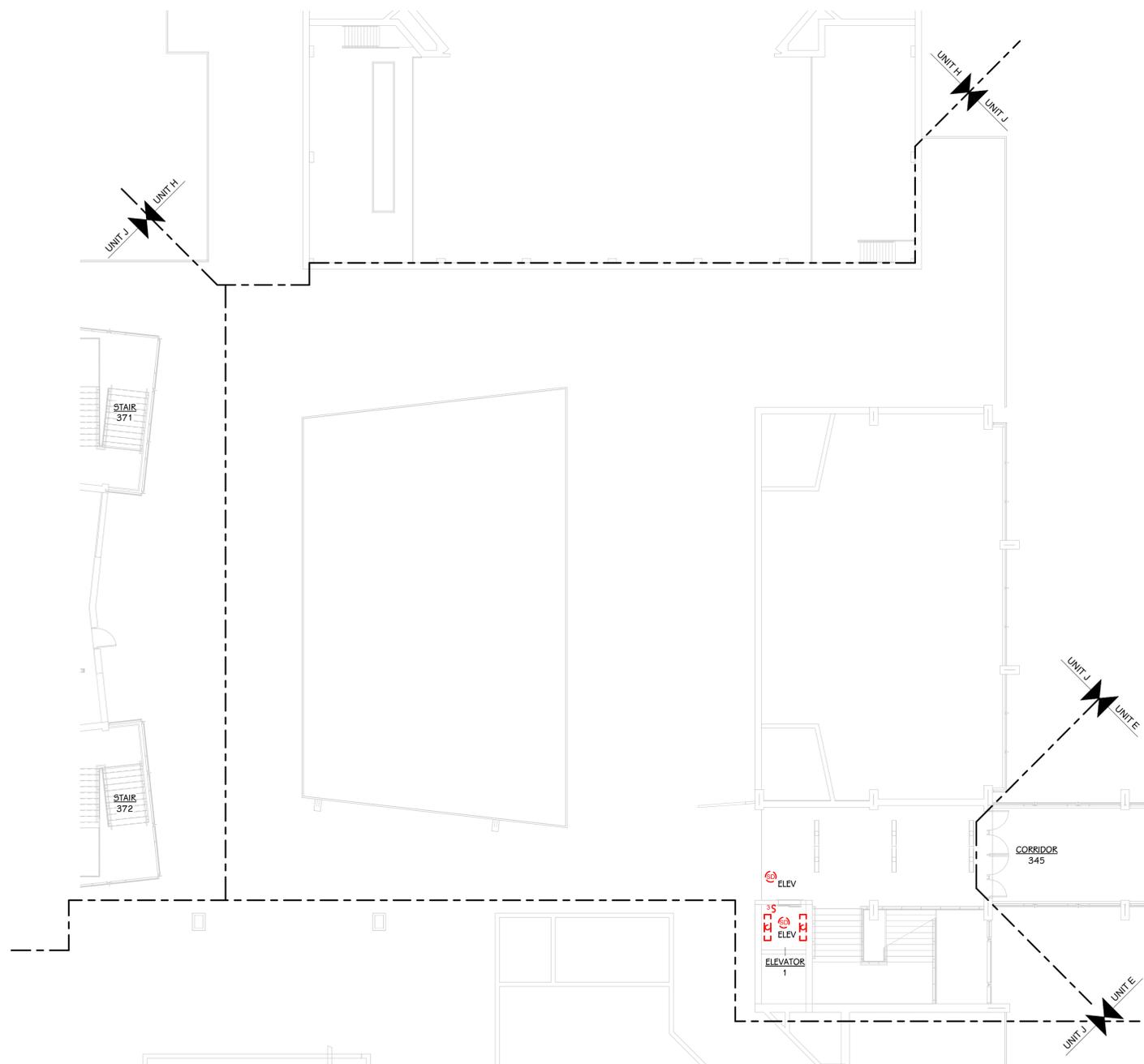
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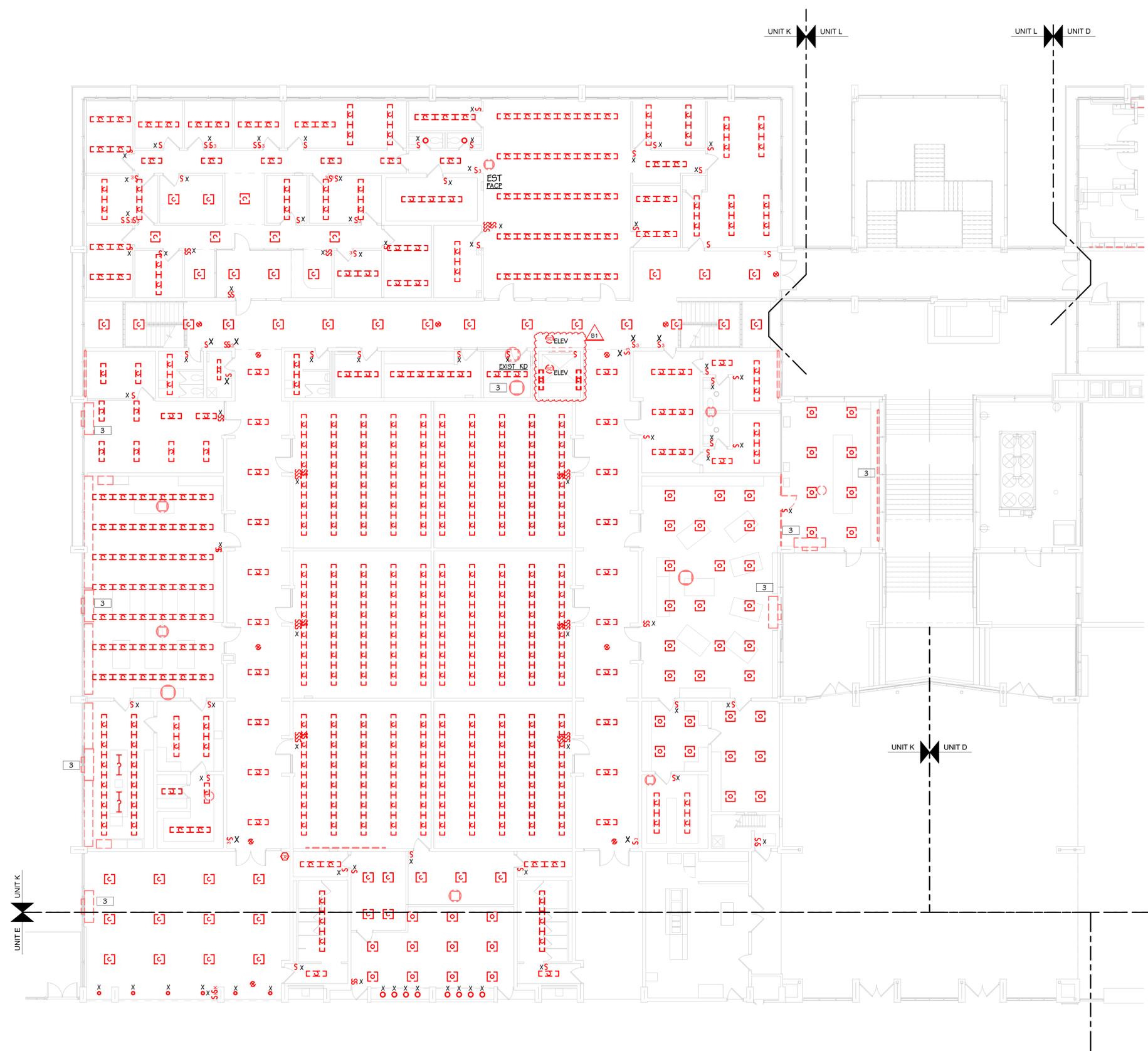
LEVEL 1 - KEY PLAN



KEY PLAN
SCALE: NO SCALE



FIRST FLOOR ELECTRICAL DEMOLITION PLAN
3/32" = 1'-0"



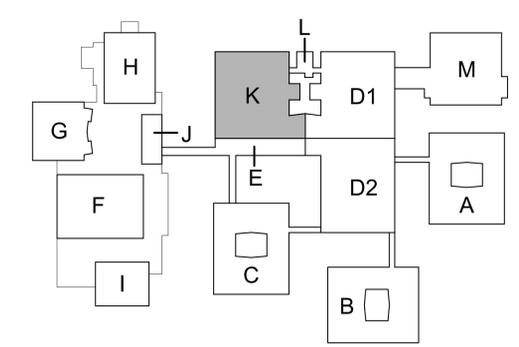
LEVEL 1 ELECTRICAL DEMOLITION PLAN - UNIT K
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KEY PLAN
 SCALE: NO SCALE

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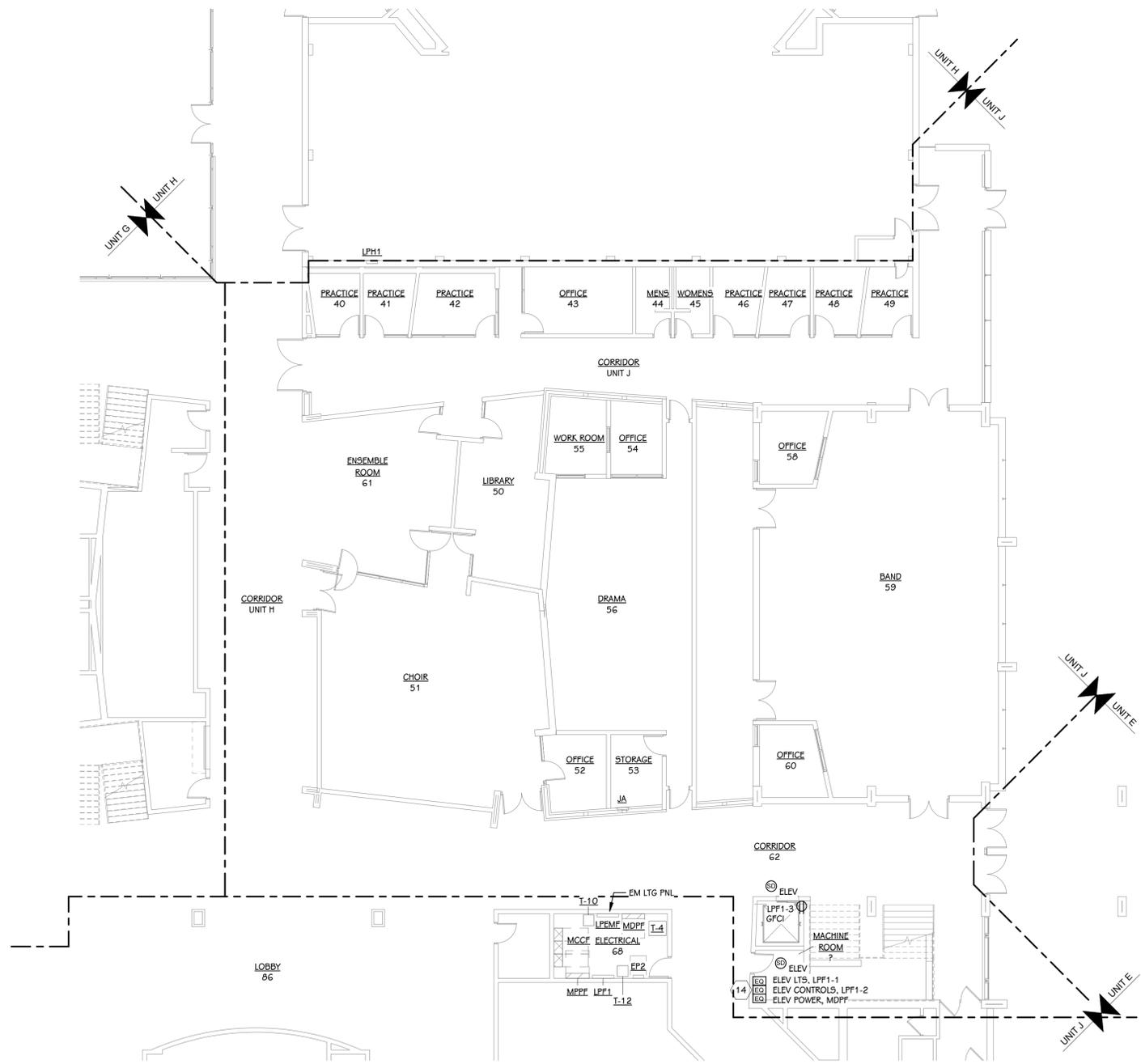
PROJECT TITLE
LOY NORRIS HIGH SCHOOL MECHANICAL IMPROVEMENTS PROJECT

OWNER
KALAMAZOO PUBLIC SCHOOLS
 Kalamazoo, Michigan

SHEET TITLE
LEVEL 1 ELECTRICAL DEMOLITION PLAN - UNIT K

SHEET NUMBER
ED 101K
 21-807.00

DATE
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LOWER LEVEL POWER PLAN - UNIT J
3/32" = 1'-0"

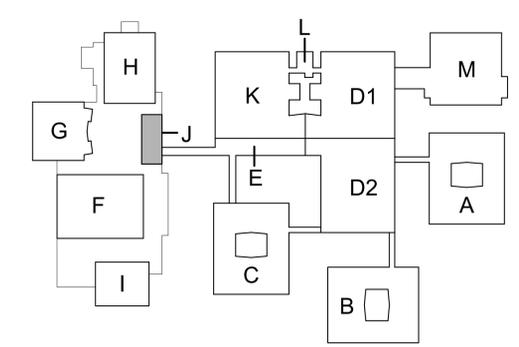
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 - 8 REMOVE SPARE BREAKER AND PROVIDE NEW 20A/2P BREAKER IN EXISTING SQUARE D NO PANEL PPD1 FOR CR-D1.
 - 9 CONNECT SMOKE DAMPER TO EXISTING LOCAL RECEPTACLE CIRCUIT.
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OWNER
KALAMAZOO PUBLIC SCHOOLS
Kalamazoo, Michigan

LEVEL 1 - KEY PLAN

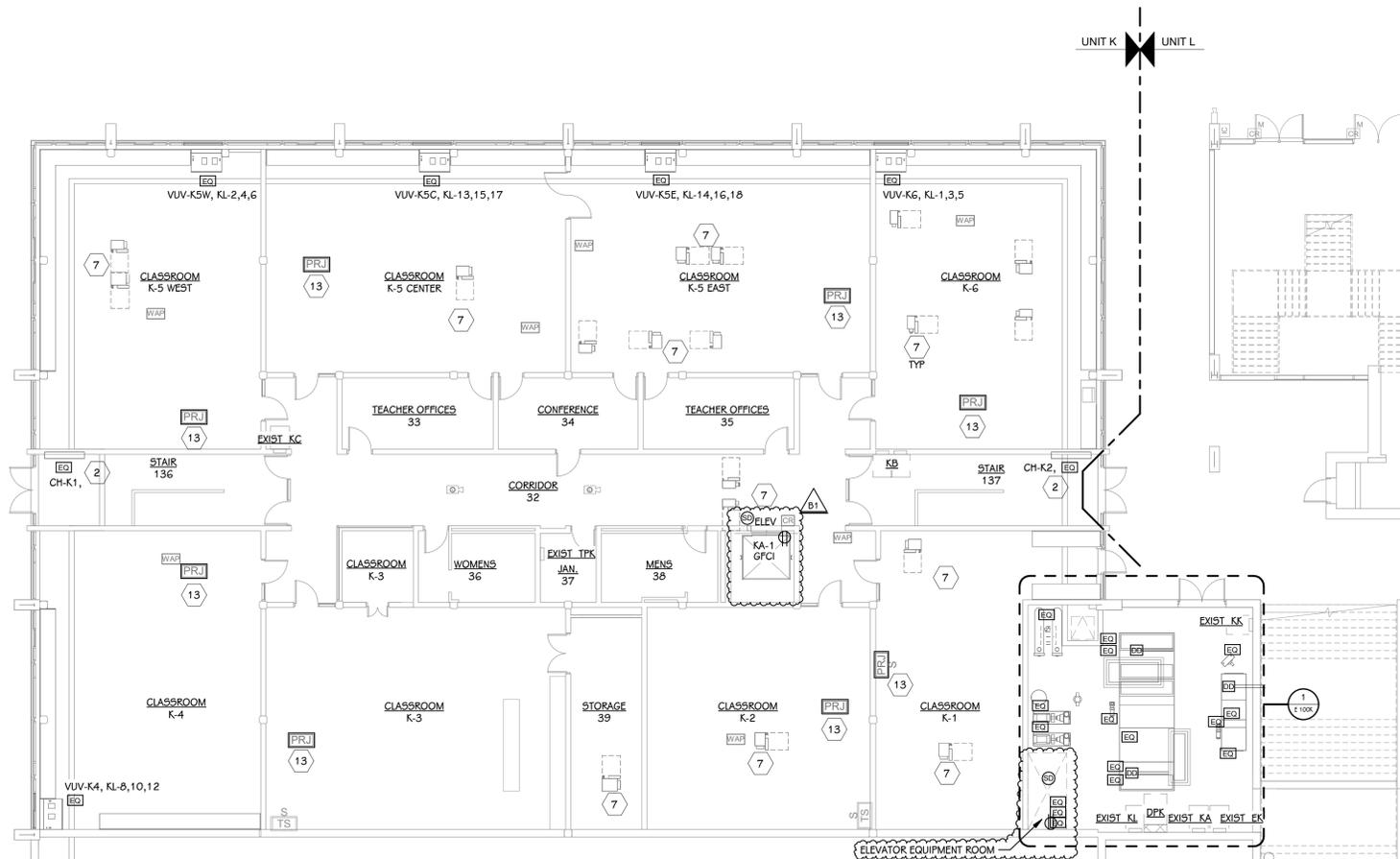


KEY PLAN
SCALE: NO SCALE

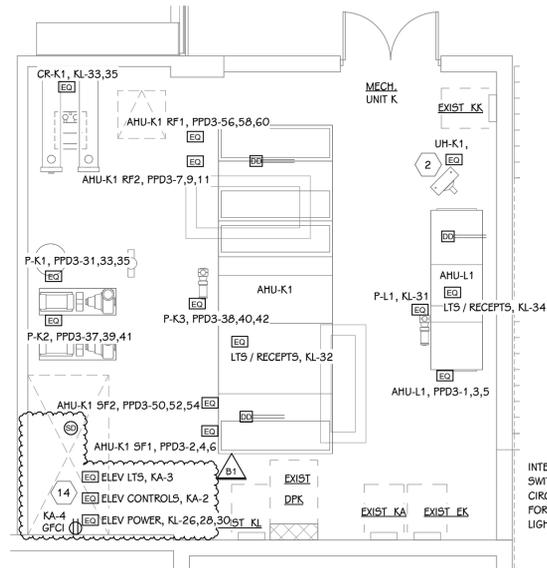
SHEET TITLE
LOWER LEVEL POWER PLAN - UNIT J

DATE
SEPTEMBER 16, 2024

SHEET NUMBER
E 100J
21-807.00



LOWER LEVEL POWER PLAN - UNIT K
3/32" = 1'-0"



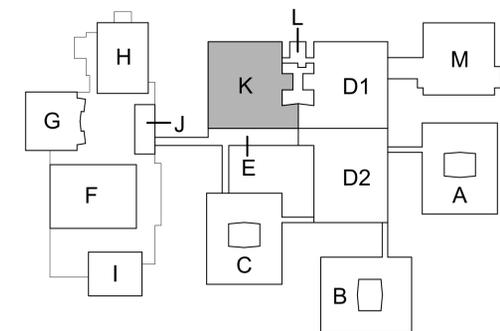
ENLARGED MECH ROOM POWER PLAN
3/16" = 1'-0"

INTERWIRE AHU / RTU DISCONNECT, LIGHTING, SWITCHING, AND GENERAL RECEPTACLE CIRCUITS. PROVIDE ALL WORK NECESSARY FOR A COMPLETE INSTALLATION. MOUNT LIGHT SWITCHES AT MAX 48" AFF. (TYP)

ELECTRICAL KEYED NOTES

- 1 DISCONNECT EXISTING BI-POLAR IONIZATION AND RETAIN CIRCUIT FOR REUSE. RE-CONNECT BI-POLAR IONIZATION IN NEW MECHANICAL EQUIPMENT.
- 2 DISCONNECT ELECTRICAL CONNECTION FROM THE EXISTING CABINET OR UNIT HEATER, RETAIN CIRCUIT FOR REUSE. CONNECT NEW CABINET OR UNIT HEATER TO EXISTING CIRCUIT, EXTEND WIRING AND CONDUIT AS REQUIRED.
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- 8 REMOVE SPARE BREAKER AND PROVIDE NEW 20A/2P BREAKER IN EXISTING SQUARE D NQ PANEL PPD1 FOR CR-D1.
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LEVEL 1 - KEY PLAN



KEY PLAN
SCALE: NO SCALE

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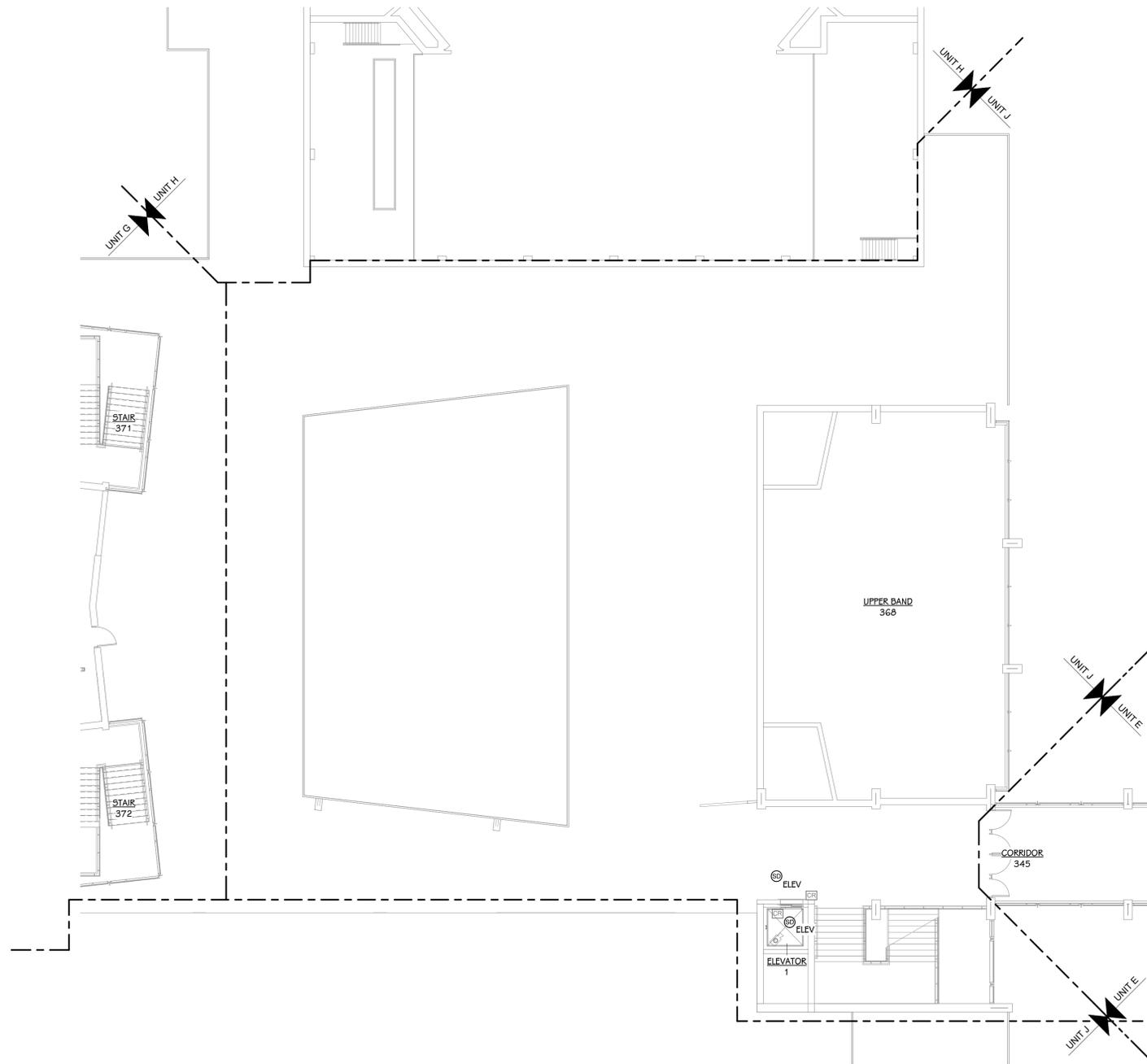
OWNER
KALAMAZOO PUBLIC SCHOOLS

Kalamazoo, Michigan

SHEET TITLE
LOWER LEVEL POWER PLAN - UNIT K

DATE
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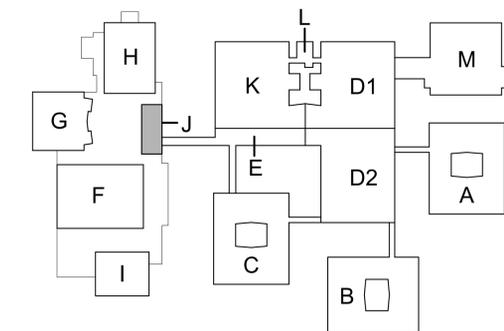


LEVEL 1 POWER PLAN - UNIT J
 3/32" = 1'-0"

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LEVEL 1 - KEY PLAN



KEY PLAN
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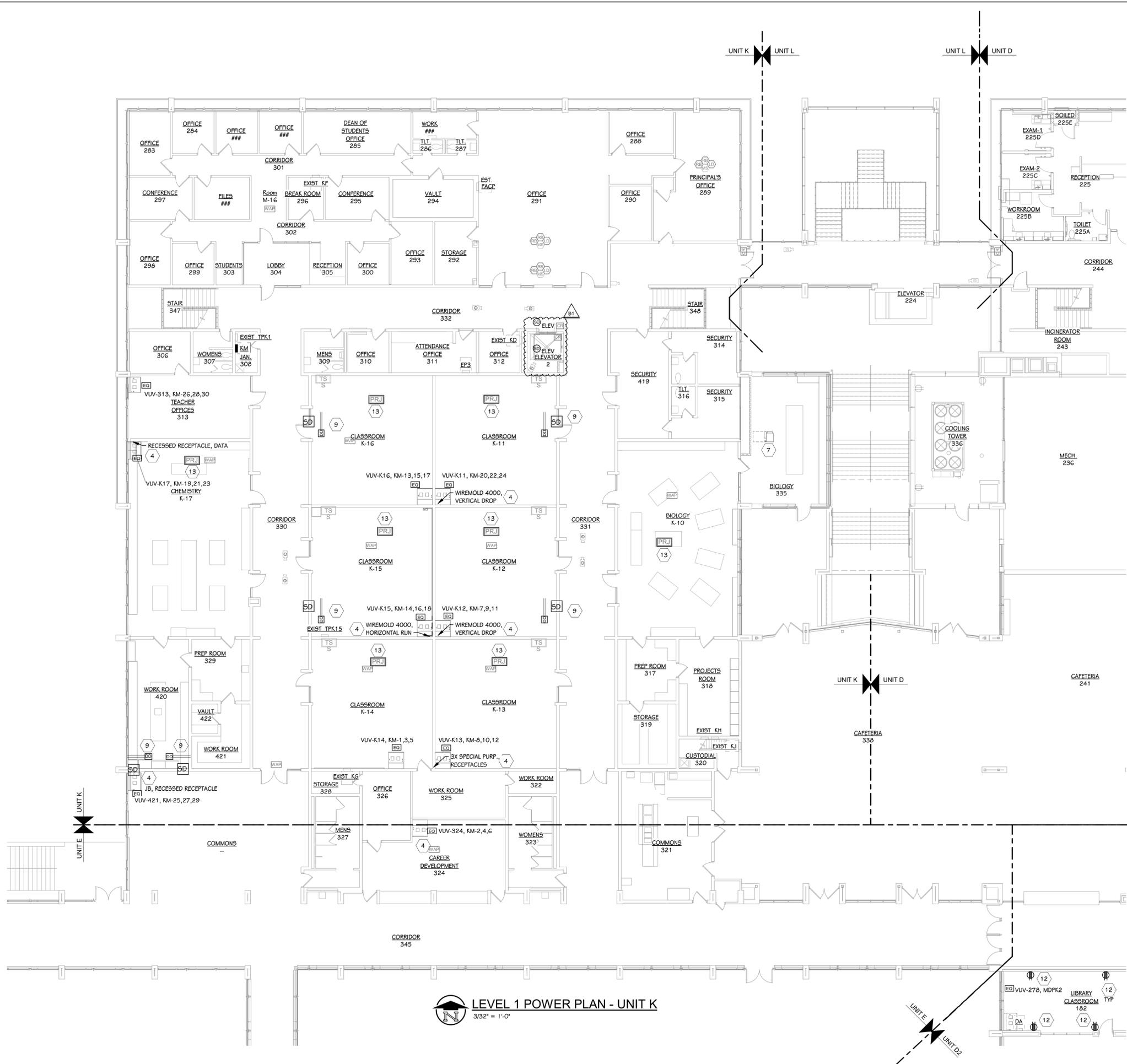
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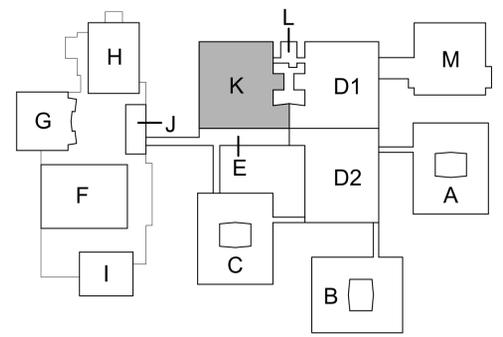
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- 13 REMOVE AND RELOCATE POWER AS REQUIRED FOR TECHNOLOGY REVISIONS. EXTEND AND REWORK EXISTING CIRCUIT AS REQUIRED. REFER TO TECHNOLOGY DRAWINGS. COORDINATE WITH TECHNOLOGY CONTRACTOR PRIOR TO ALL TECHNOLOGY DEMOLITION OR NEW CONSTRUCTION.
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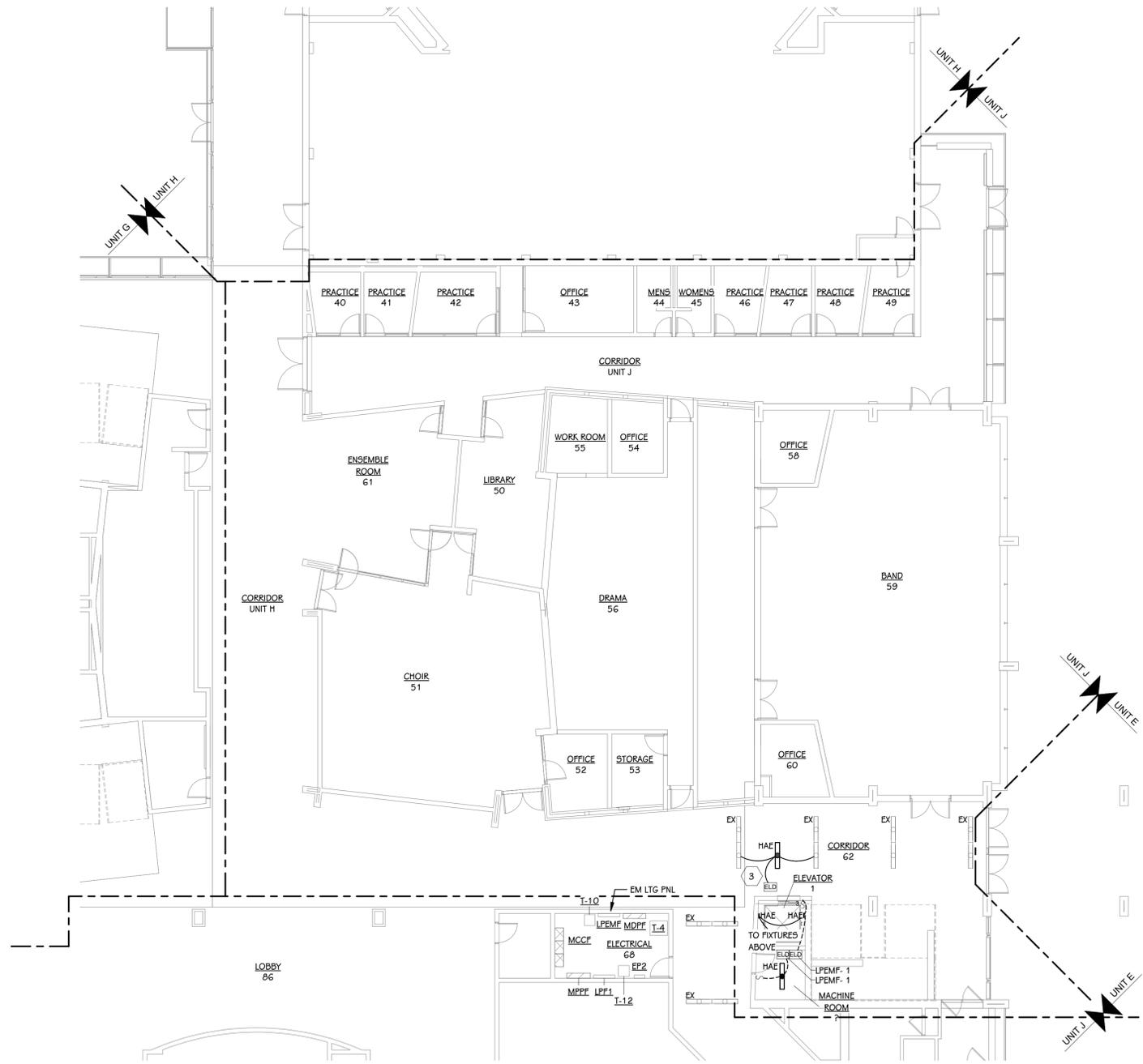


LEVEL 1 POWER PLAN - UNIT K
3/32" = 1'-0"

LEVEL 1 - KEY PLAN



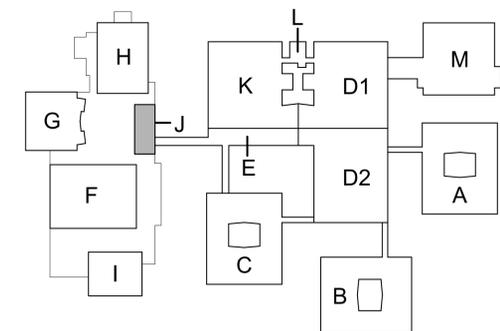
KEY PLAN
SCALE: NO SCALE



LOWER LEVEL LIGHTING PLAN - UNIT J
 3/32" = 1'-0"

- ELECTRICAL KEYED NOTES**
- 1 REMOVE EXISTING LIGHTING AND OCCUPANCY SENSORS AS REQUIRED FOR MECHANICAL CEILING DEMOLITION. REWORK CONDUITS AND JUNCTION BOXES AS REQUIRED. EXTEND AND REWORK EXISTING CIRCUITS AS REQUIRED TO REINSTALL EXISTING FIXTURES IN NEW CEILING. COORDINATE WITH MECHANICAL.
 - 2 REMOVE LIGHTING, LIGHTING CIRCUITS, CONDUIT, AND WIRE BACK TO NEAREST ACTIVE JUNCTION BOXES. NEW FIXTURES SHALL BE CONNECTED TO EXISTING ROOM LIGHTING CIRCUITS. REMOVE EXISTING SWITCHES AND ASSOCIATED LINE VOLTAGE WIRING. PROVIDE BARRIER BETWEEN LINE VOLTAGE AND LOW VOLTAGE WIRING AS REQUIRED FOR NEW CONSTRUCTION. CONNECT NEW LIGHTS TO ROOM LIGHTING CIRCUIT AT NEAREST JUNCTION BOX REMAINING FROM DEMOLITION. EXTEND AND REWORK EXISTING ROOM LIGHTING CIRCUIT AS REQUIRED. PROVIDE NEW LOW VOLTAGE SWITCHES IN PLACE OF EXISTING LINE VOLTAGE SWITCHES. PROVIDE NEW OCCUPANCY SENSOR CONTROL AS INDICATED.
 - 3 PROVIDE NEW CORRIDOR OCCUPANCY SENSOR, TIE INTO EXISTING CORRIDOR LIGHTING CIRCUIT. PROVIDE NEW FIXTURE WHERE INDICATED. TIE INTO CORRIDOR LIGHTING CIRCUIT WITH ELD CIRCUITED TIED TO EXISTING EMERGENCY LIGHTING PANEL.

LEVEL 1 - KEY PLAN



KEY PLAN
 SCALE: NO SCALE

BULLETIN NO. 1 December 16, 2024

ISSUED FOR DATE

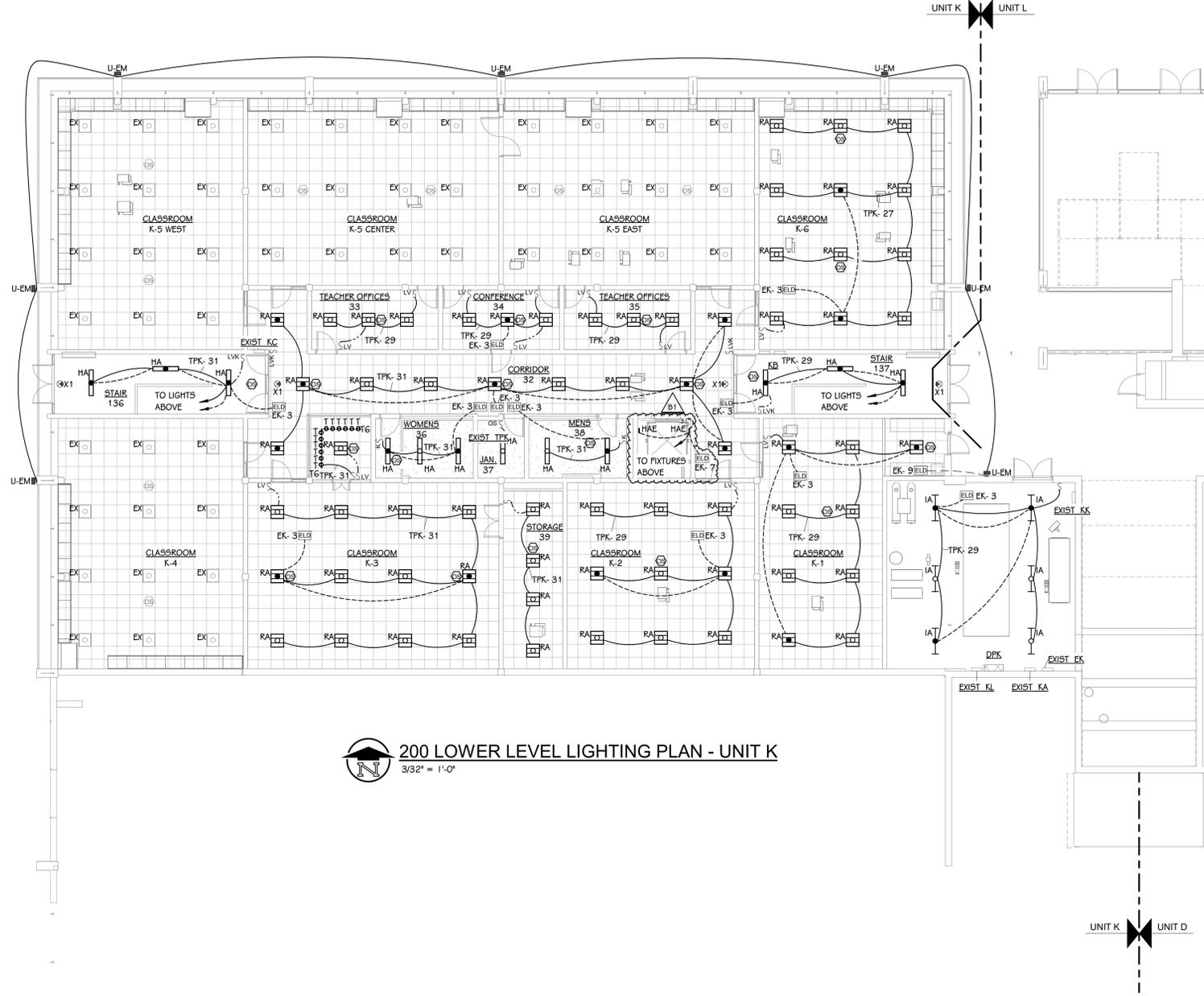
PROJECT TITLE
 LOY NORRIS HIGH SCHOOL MECHANICAL IMPROVEMENTS PROJECT

OWNER
 KALAMAZOO PUBLIC SCHOOLS
 Kalamazoo, Michigan

SHEET TITLE
 LOWER LEVEL LIGHTING PLAN - UNIT J

DATE
 SEPTEMBER 16, 2024

SHEET NUMBER
E.200J
 21-807.00



200 LOWER LEVEL LIGHTING PLAN - UNIT K
3/32" = 1'-0"

- ELECTRICAL KEYED NOTES**
- 1 REMOVE EXISTING LIGHTING AND OCCUPANCY SENSORS AS REQUIRED FOR MECHANICAL CEILING DEMOLITION. REWORK CONDUITS AND JUNCTION BOXES AS REQUIRED. EXTEND AND REWORK EXISTING CIRCUITS AS REQUIRED TO REINSTALL EXISTING FIXTURES IN NEW CEILING. COORDINATE WITH MECHANICAL.
 - 2 REMOVE LIGHTING, LIGHTING CIRCUITS, CONDUIT, AND WIRE BACK TO NEAREST ACTIVE JUNCTION BOXES. NEW FIXTURES SHALL BE CONNECTED TO EXISTING ROOM LIGHTING CIRCUITS. REMOVE EXISTING SWITCHES AND ASSOCIATED LINE VOLTAGE WIRING. PROVIDE BARRIER BETWEEN LINE VOLTAGE AND LOW VOLTAGE WIRING AS REQUIRED FOR NEW CONSTRUCTION. CONNECT NEW LIGHTS TO ROOM LIGHTING CIRCUIT AT NEAREST JUNCTION BOX REMAINING FROM DEMOLITION. EXTEND AND REWORK EXISTING ROOM LIGHTING CIRCUIT AS REQUIRED. PROVIDE NEW LOW VOLTAGE SWITCHES IN PLACE OF EXISTING LINE VOLTAGE SWITCHES. PROVIDE NEW OCCUPANCY SENSOR CONTROL AS INDICATED.
 - 3 PROVIDE NEW CORRIDOR OCCUPANCY SENSOR, TIE INTO EXISTING CORRIDOR LIGHTING CIRCUIT. PROVIDE NEW FIXTURE WHERE INDICATED. TIE INTO CORRIDOR LIGHTING CIRCUIT WITH ELD CIRCUIT TIED TO EXISTING EMERGENCY LIGHTING PANEL.

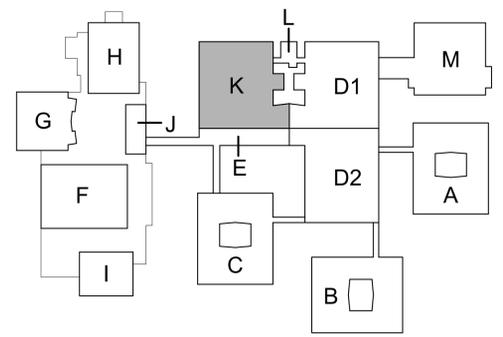
BULLETIN NO. 1 December 16, 2024
ADDENDUM NO. 3 December 6, 2024

ISSUED FOR DATE

PROJECT TITLE
LOY NORRIS HIGH SCHOOL MECHANICAL IMPROVEMENTS PROJECT

OWNER
KALAMAZOO PUBLIC SCHOOLS
Kalamazoo, Michigan

LEVEL 1 - KEY PLAN

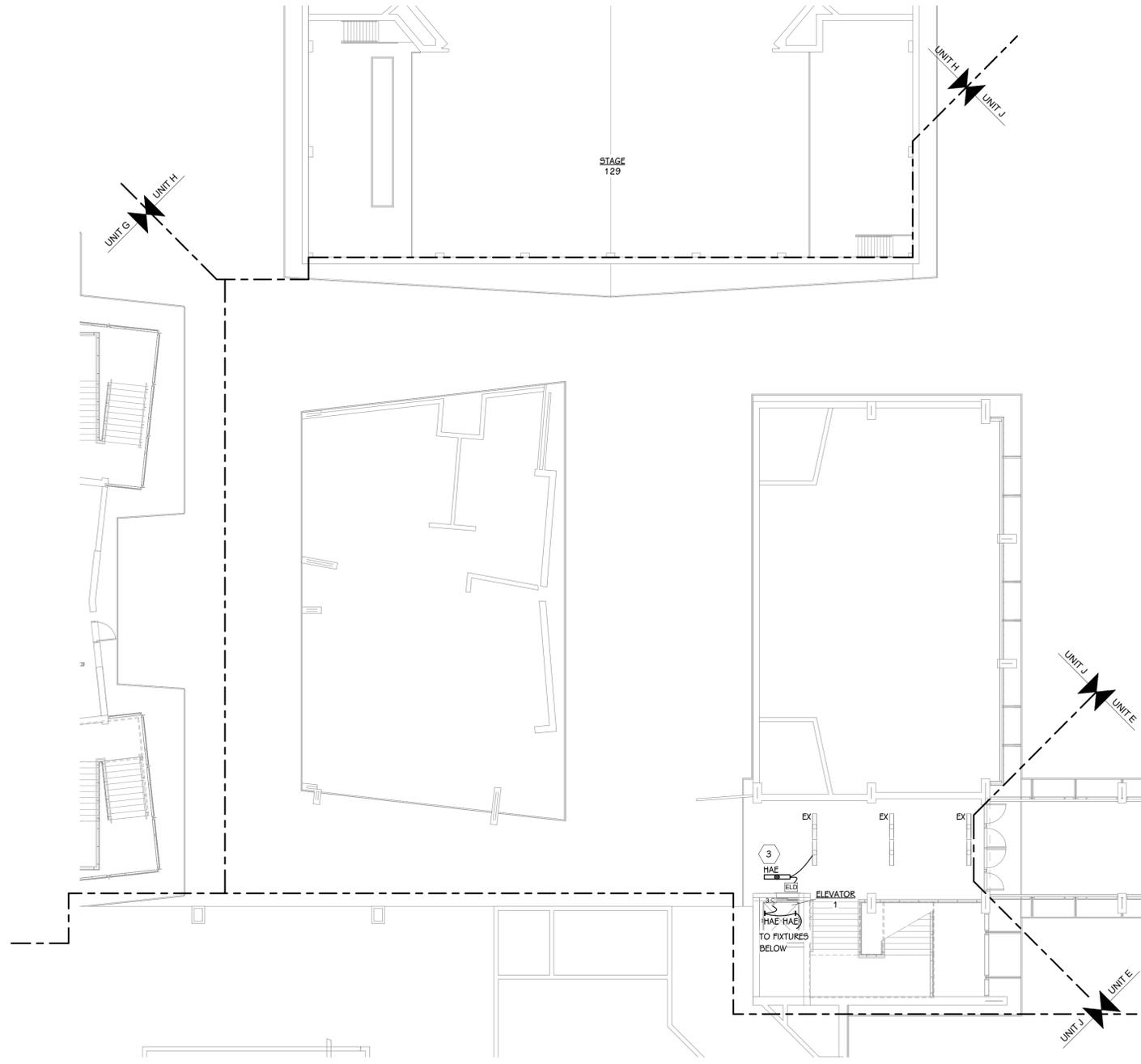


KEY PLAN
SCALE: NO SCALE

SHEET TITLE
LOWER LEVEL LIGHTING PLAN - UNIT K

DATE
SEPTEMBER 16, 2024

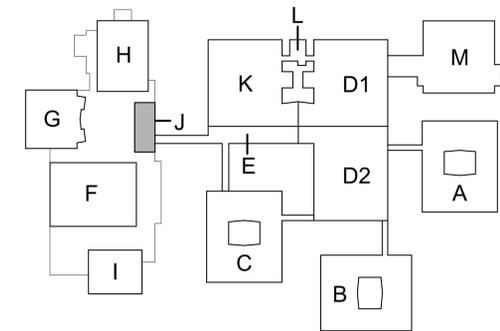
SHEET NUMBER
E 200K
21-807.00



 **LEVEL 1 LIGHTING PLAN - UNIT J**
3/32" = 1'-0"

- ELECTRICAL KEYED NOTES**
- 1 REMOVE EXISTING LIGHTING AND OCCUPANCY SENSORS AS REQUIRED FOR MECHANICAL CEILING DEMOLITION. REWORK CONDUITS AND JUNCTION BOXES AS REQUIRED. EXTEND AND REWORK EXISTING CIRCUITS AS REQUIRED TO REINSTALL EXISTING FIXTURES IN NEW CEILING. COORDINATE WITH MECHANICAL.
 - 2 REMOVE LIGHTING, LIGHTING CIRCUITS, CONDUIT, AND WIRE BACK TO NEAREST ACTIVE JUNCTION BOXES. NEW FIXTURES SHALL BE CONNECTED TO EXISTING ROOM LIGHTING CIRCUITS. REMOVE EXISTING SWITCHES AND ASSOCIATED LINE VOLTAGE WIRING. PROVIDE BARRIER BETWEEN LINE VOLTAGE AND LOW VOLTAGE WIRING AS REQUIRED FOR NEW CONSTRUCTION. CONNECT NEW LIGHTS TO ROOM LIGHTING CIRCUIT AT NEAREST JUNCTION BOX REMAINING FROM DEMOLITION. EXTEND AND REWORK EXISTING ROOM LIGHTING CIRCUIT AS REQUIRED. PROVIDE NEW LOW VOLTAGE SWITCHES IN PLACE OF EXISTING LINE VOLTAGE SWITCHES. PROVIDE NEW OCCUPANCY SENSOR CONTROL AS INDICATED.
 - 3 PROVIDE NEW CORRIDOR OCCUPANCY SENSOR, TIE INTO EXISTING CORRIDOR LIGHTING CIRCUIT. PROVIDE NEW FIXTURE WHERE INDICATED. TIE INTO CORRIDOR LIGHTING CIRCUIT WITH ELD CIRCUITED TIED TO EXISTING EMERGENCY LIGHTING PANEL.

LEVEL 1 - KEY PLAN



 **KEY PLAN**
SCALE: NO SCALE

BULLETIN NO. 1 December 16, 2024
ISSUED FOR DATE

PROJECT TITLE
LOY NORRIS HIGH SCHOOL MECHANICAL IMPROVEMENTS PROJECT

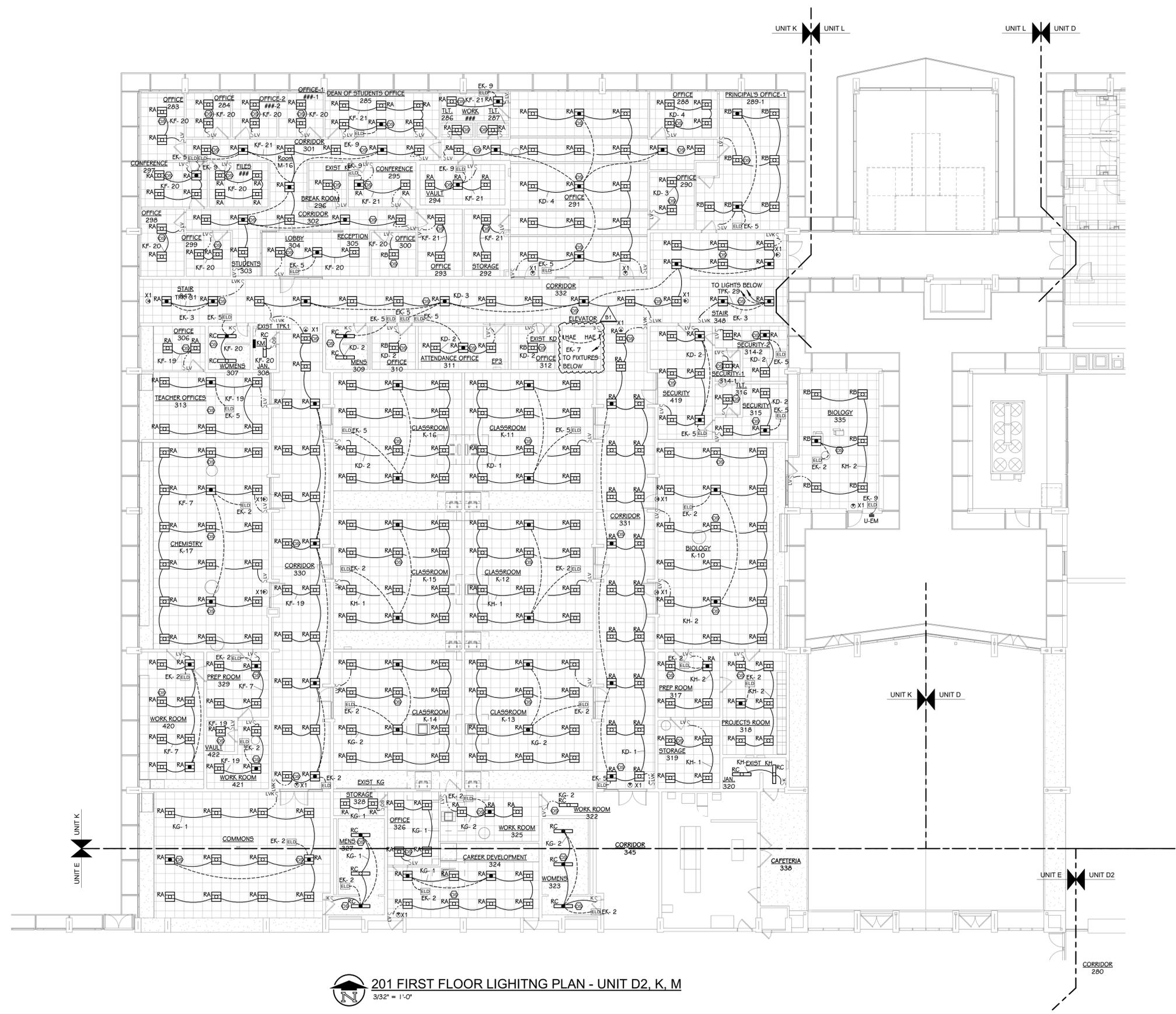
OWNER
KALAMAZOO PUBLIC SCHOOLS
Kalamazoo, Michigan

SHEET TITLE
LEVEL 1 LIGHTING PLAN - UNIT J

DATE
SEPTEMBER 16, 2024

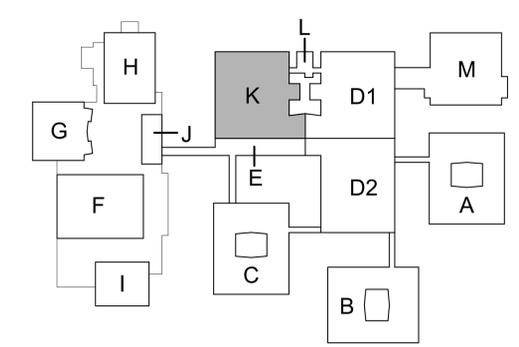
SHEET NUMBER
E.201J
21-807.00

- ### ELECTRICAL KEYED NOTES
- REMOVE EXISTING LIGHTING AND OCCUPANCY SENSORS AS REQUIRED FOR MECHANICAL CEILING DEMOLITION. REWORK CONDUITS AND JUNCTION BOXES AS REQUIRED. EXTEND AND REWORK EXISTING CIRCUITS AS REQUIRED TO REINSTALL EXISTING FIXTURES IN NEW CEILING. COORDINATE WITH MECHANICAL.
 - REMOVE LIGHTING, LIGHTING CIRCUITS, CONDUIT, AND WIRE BACK TO NEAREST ACTIVE JUNCTION BOXES. NEW FIXTURES SHALL BE CONNECTED TO EXISTING ROOM LIGHTING CIRCUITS. REMOVE EXISTING SWITCHES AND ASSOCIATED LINE VOLTAGE WIRING. PROVIDE BARRIER BETWEEN LINE VOLTAGE AND LOW VOLTAGE WIRING AS REQUIRED FOR NEW CONSTRUCTION. CONNECT NEW LIGHTS TO ROOM LIGHTING CIRCUIT AT NEAREST JUNCTION BOX REMAINING FROM DEMOLITION. EXTEND AND REWORK EXISTING ROOM LIGHTING CIRCUIT AS REQUIRED. PROVIDE NEW LOW VOLTAGE SWITCHES IN PLACE OF EXISTING LINE VOLTAGE SWITCHES. PROVIDE NEW OCCUPANCY SENSOR CONTROL AS INDICATED.
 - PROVIDE NEW CORRIDOR OCCUPANCY SENSOR, TIE INTO EXISTING CORRIDOR LIGHTING CIRCUIT. PROVIDE NEW FIXTURE WHERE INDICATED. TIE INTO CORRIDOR LIGHTING CIRCUIT WITH ELD CIRCUITED TIED TO EXISTING EMERGENCY LIGHTING PANEL.



201 FIRST FLOOR LIGHTING PLAN - UNIT D2, K, M
3/32" = 1'-0"

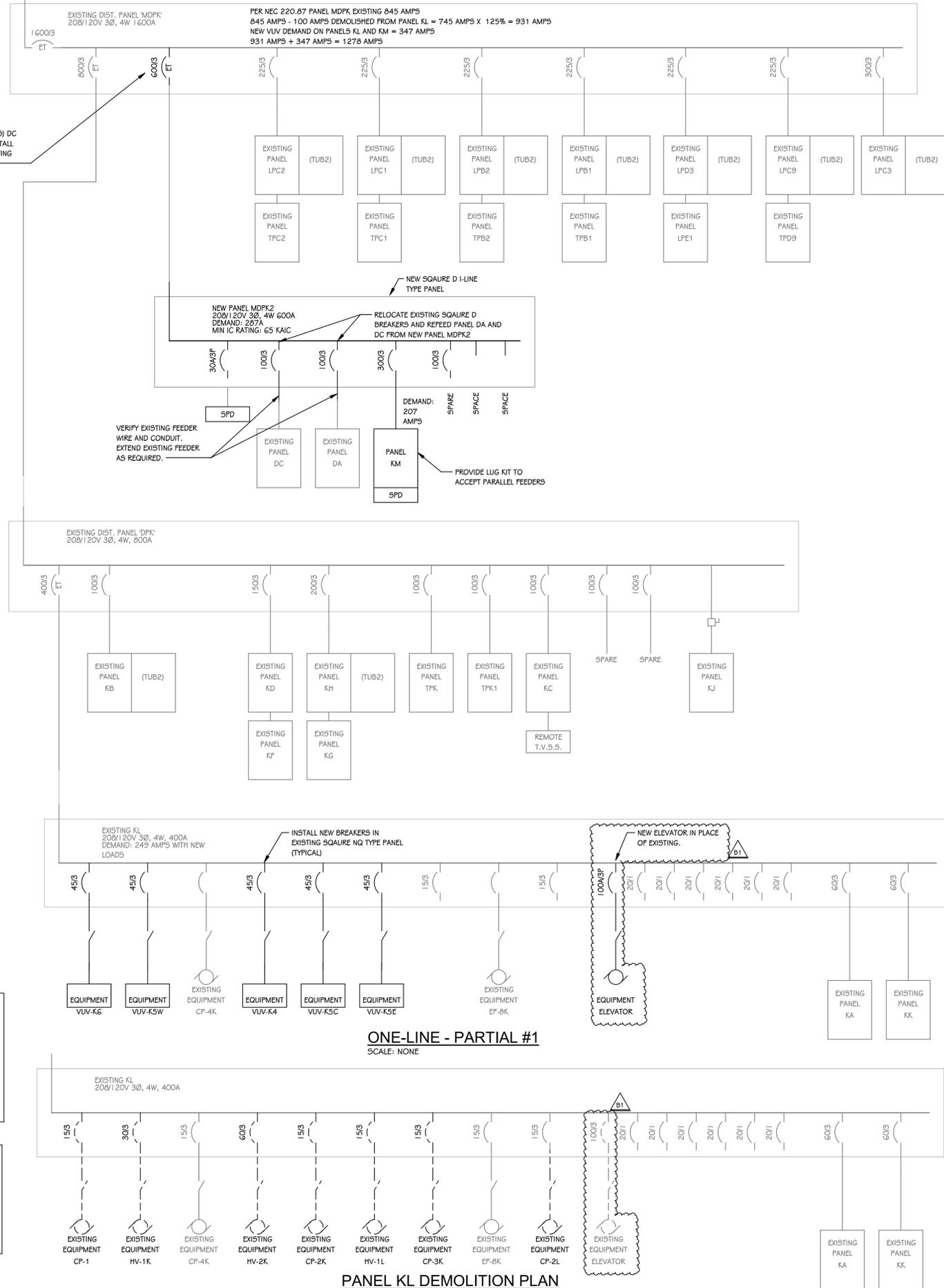
LEVEL 1 - KEY PLAN



KEY PLAN
SCALE: NO SCALE

CONTINUED FROM SHEET E401

REMOVE BREAKER(S) FOR EXISTING PANEL(S) DC AND DA, RETAIN BREAKER FOR REUSE. INSTALL NEW 600/3 100% RATED BREAKER IN EXISTING SQUARE D QED PANEL MDPK.



ONE-LINE - PARTIAL #1
SCALE: NONE

PANEL KL DEMOLITION PLAN

SERVICE ENTRANCE SPD SCHEDULE						
VOLTAGE	SWITCHBOARD AMP9	RAYOSS SPD MODEL	SURGE RATING	PROTECTION MODE9	MAX WIRE	MIN BREAKER
208/120V Wye	Up to 2000A	120-3Y-N3-7-04-A-H	140kA Mode	L-N, L-G, N-G	4/0	100A
208/120V Wye	2000A-4000A	120-3Y-A1-7-04-A-H	200kA Mode	L-N, L-G, N-G	4/0	100A
480/277V Wye	Up to 2000A	277-3Y-N3-7-04-C-H	140kA Mode	L-N, L-G, N-G	4/0	100A
480/277V Wye	2000A-4000A	277-3Y-A1-7-04-C-H	200kA Mode	L-N, L-G, N-G	4/0	100A
480 Delta	Up to 2000A	480-3D-M3-3-04-D-H	140kA Mode	L-G	#2 AWG	60A
480 Delta	2000A-4000A	480-3D-N1-3-04-D-H	200kA Mode	L-G	#2 AWG	60A

*FOR ALL SERVICE ENTRANCE, GENERATOR ENTRANCE AND OTHER HIGH RISK ELECTRICAL ENTRANCE/EXITS. ALL SERVICE ENTRANCE DEVICES TO HAVE TIME STAMP EVENT MONITORING. MOUNT DEVICES WITHIN 10" OF PANEL/SWITCHBOARD BUS.

BRANCH PANEL SPD SCHEDULE						
VOLTAGE	PANEL AMP9	RSE2 SPD MODEL	SURGE RATING	PROTECTION MODE9	BREAKER AMP9	
208/120V Wye	Up to 400A	R5E-2-120-3Y-A-05-E-F-5	50kA Mode	L-N, L-G, N-G	30A	
208/120V Wye	400A-2000A	R5E-2-120-3Y-A-10-E-F-5	100kA Mode	L-N, L-G, N-G	60A	
480/277V Wye	Up to 400A	R5E-2-277-3Y-A-05-E-F-5	50kA Mode	L-N, L-G, N-G	30A	
480/277V Wye	400A-2000A	R5E-2-277-3Y-A-10-E-F-5	100kA Mode	L-N, L-G, N-G	60A	

*FOR CASCADED PROTECTION DIRECTLY DOWNSTREAM OF SERVICE ENTRANCE AND ALL SUB PANELS. ALL SPD DEVICES TO HAVE TIME STAMP EVENT MONITORING. MOUNT DEVICES WITHIN 10" OF PANEL/SWITCHBOARD BUS.

BULLETIN NO. 1 December 16, 2024

ISSUED FOR DATE

PROJECT TITLE
LOY NORRIS HIGH SCHOOL MECHANICAL IMPROVEMENTS PROJECT

OWNER
KALAMAZOO PUBLIC SCHOOLS

Kalamazoo, Michigan

SHEET TITLE
ELECTRICAL ONE LINE - PARTIAL #1

DATE
SEPTEMBER 16, 2024

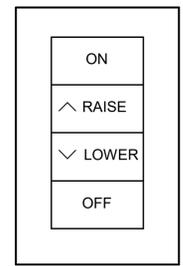
SHEET NUMBER
E 402
21-807.00

ELECTRICAL PANEL FEEDER SCHEDULE										
DESCRIPTION	FED FROM	CURRENT (FLA)	DEMAND (FLA)	FEEDER					FEED VOLT DROP %	NOTES
				BREAKER / POLES	# OF SETS	WIRE	GROUND	EMT		
208 V										
KM	MDPK2	208 A	207 A	300 A / 3	2 SETS	4 #250 KCMIL	#1 GND.	3"	1.91%	
MDPK2	MDPK	235 A	233 A	600 A / 3	2 SETS	4 #350 KCMIL	#1 GND.	3"	0.24%	

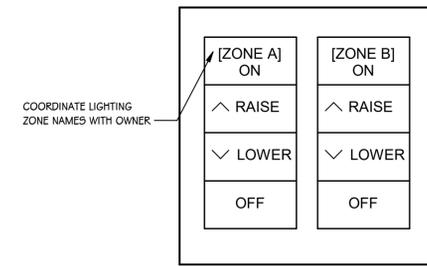
ELECTRICAL HVAC FEEDER SCHEDULE										
DESCRIPTION	FED FROM	DISCONNECT MEANS	CURRENT (FLA)	BREAKER / POLES	# OF SETS	FEEDER			FEED VOLT DROP %	NOTES
						WIRE	GROUND	EMT		
480 V										
HVAC - ACCU-A1	PPD3	30/3 NEMA 3R NFDS	19 A	25 A / 3	1 SET	3 #10	#10 GND.	3/4"	2.51%	
HVAC - ACCU-B1	PPD3	30/3 NEMA 3R NFDS	18 A	25 A / 3	1 SET	3 #8	#8 GND.	3/4"	2.12%	
HVAC - ACCU-C1	PPD3	30/3 NEMA 3R NFDS	18 A	25 A / 3	1 SET	3 #8	#8 GND.	3/4"	2.68%	
HVAC - ACCU-M1	MCCDA	200/3 NEMA 3R NFDS	117 A	150 A / 3	1 SET	3 #10	#6 GND.	2"	2.41%	
HVAC - AHU-C1	PPD3	30/3 NFDS	8 A	15 A / 3	1 SET	3 #12	#12 GND.	3/4"	2.78%	
HVAC - AHU-K1 RF1	PPD3	30/3 NFDS	8 A	20 A / 3	1 SET	3 #12	#12 GND.	3/4"	1.27%	
HVAC - AHU-K1 RF2	PPD3	30/3 NFDS	8 A	20 A / 3	1 SET	3 #12	#12 GND.	3/4"	1.26%	
HVAC - AHU-K1 SF1	PPD3	30/3 NFDS	14 A	20 A / 3	1 SET	3 #12	#12 GND.	3/4"	2.27%	
HVAC - AHU-K1 SF2	PPD3	30/3 NFDS	14 A	20 A / 3	1 SET	3 #12	#12 GND.	3/4"	2.25%	
HVAC - AHU-L1	PPD3	30/3 NFDS	8 A	20 A / 3	1 SET	3 #12	#12 GND.	3/4"	1.13%	
HVAC - AHU-M1 SF1	PPD3	30/3 NFDS	14 A	20 A / 3	1 SET	3 #10	#10 GND.	3/4"	1.57%	
HVAC - AHU-M1 SF2	PPD3	30/3 NFDS	14 A	20 A / 3	1 SET	3 #10	#10 GND.	3/4"	1.60%	
HVAC - AHU-M2	PPD3	30/3 NFDS	8 A	20 A / 3	1 SET	4 #12	#12 GND.	3/4"	1.73%	
HVAC - P-K1	PPD3	30/3 NFDS	11 A	20 A / 3	1 SET	3 #12	#12 GND.	3/4"	1.84%	
HVAC - P-K2	PPD3	30/3 NFDS	11 A	20 A / 3	1 SET	3 #12	#12 GND.	3/4"	1.83%	
HVAC - P-K3	PPD3	30/3 NFDS	2 A	20 A / 3	1 SET	3 #12	#12 GND.	3/4"	0.32%	
HVAC - P-M1	PPD3	30/3 NFDS	2 A	20 A / 3	1 SET	3 #12	#12 GND.	3/4"	0.35%	
HVAC - P-M2	PPD3	30/3 NFDS	2 A	20 A / 3	1 SET	4 #12	#12 GND.	3/4"	0.36%	
HVAC - RTU-C1	PPD3	30/3 NFDS	16 A	20 A / 3	1 SET	3 #6	#6 GND.	1"	2.07%	
HVAC - RTU-M1	MCCDA	30/3 NFDS	16 A	20 A / 3	1 SET	3 #10	#10 GND.	3/4"	2.32%	
208 V										
HVAC - EHC-A1	LPA1	60/3 NFDS	30 A	40 A / 3	1 SET	3 #8	#10 GND.	3/4"	1.26%	
HVAC - EHC-C1	LPC1B	60/3 NFDS	30 A	40 A / 3	1 SET	3 #8	#10 GND.	3/4"	1.22%	
HVAC - ELEVATOR J	MDPF	100A/3P FDS	50 A	100 A / 3	1 SET	3 #3	#8 GND.	1 1/4"	0.66%	
HVAC - ELEVATOR K	KL	100A/3P FDS	50 A	100 A / 3	1 SET	3 #3	#8 GND.	1 1/4"	0.45%	
HVAC - VUV-27B	MDPK2	MANUFACTURER	27 A	45 A / 3	1 SET	3 #6	#6 GND.	1"	1.84%	
HVAC - VUV-313	KM	MANUFACTURER	18 A	30 A / 3	1 SET	3 #8	#8 GND.	3/4"	0.90%	
HVAC - VUV-324	KM	MANUFACTURER	18 A	30 A / 3	1 SET	3 #8	#8 GND.	3/4"	2.39%	
HVAC - VUV-421	KM	MANUFACTURER	27 A	45 A / 3	1 SET	3 #6	#6 GND.	1"	1.90%	
HVAC - VUV-K4	KL	MANUFACTURER	27 A	45 A / 3	1 SET	3 #6	#8 GND.	1"	2.00%	
HVAC - VUV-K5C	KL	MANUFACTURER	27 A	45 A / 3	1 SET	3 #6	#8 GND.	1"	2.39%	
HVAC - VUV-K5E	KL	MANUFACTURER	27 A	45 A / 3	1 SET	3 #6	#8 GND.	1"	2.04%	
HVAC - VUV-K5W	KL	MANUFACTURER	27 A	45 A / 3	1 SET	3 #6	#8 GND.	1"	2.73%	
HVAC - VUV-K6	KL	MANUFACTURER	27 A	45 A / 3	1 SET	3 #6	#8 GND.	1"	1.70%	
HVAC - VUV-K11	KM	MANUFACTURER	18 A	30 A / 3	1 SET	3 #10	#10 GND.	3/4"	2.37%	
HVAC - VUV-K12	KM	MANUFACTURER	18 A	30 A / 3	1 SET	3 #10	#10 GND.	3/4"	2.92%	
HVAC - VUV-K13	KM	MANUFACTURER	18 A	30 A / 3	1 SET	3 #8	#8 GND.	3/4"	2.21%	
HVAC - VUV-K14	KM	MANUFACTURER	18 A	30 A / 3	1 SET	3 #8	#8 GND.	3/4"	2.07%	
HVAC - VUV-K15	KM	MANUFACTURER	18 A	30 A / 3	1 SET	3 #10	#10 GND.	3/4"	2.80%	
HVAC - VUV-K16	KM	MANUFACTURER	18 A	30 A / 3	1 SET	3 #10	#10 GND.	3/4"	2.22%	
HVAC - VUV-K17	KM	MANUFACTURER	27 A	45 A / 3	1 SET	3 #8	#10 GND.	3/4"	2.33%	
HVAC - VUV-M1A	MM	MANUFACTURER	27 A	45 A / 3	1 SET	3 #6	#6 GND.	1"	2.03%	
HVAC - VUV-M3	MM	MANUFACTURER	19 A	30 A / 3	1 SET	3 #10	#10 GND.	3/4"	1.78%	
HVAC - VUV-M3A	MM	MANUFACTURER	24 A	40 A / 3	1 SET	3 #6	#6 GND.	1"	2.17%	
HVAC - VUV-M3B	MM	MANUFACTURER	24 A	40 A / 3	1 SET	3 #6	#6 GND.	1"	2.76%	
HVAC - VUV-M6	MM	MANUFACTURER	19 A	30 A / 3	1 SET	3 #8	#8 GND.	3/4"	2.40%	
HVAC - VUV-M10	MM	MANUFACTURER	19 A	30 A / 3	1 SET	3 #8	#8 GND.	3/4"	1.00%	
HVAC - VUV-M11	MM	MANUFACTURER	19 A	30 A / 3	1 SET	3 #10	#10 GND.	3/4"	1.71%	
HVAC - VUV-M12A	MM	MANUFACTURER	24 A	40 A / 3	1 SET	3 #8	#10 GND.	3/4"	2.53%	
HVAC - VUV-M12B	MM	MANUFACTURER	24 A	40 A / 3	1 SET	3 #6	#8 GND.	1"	2.15%	
HVAC - VUV-M13	MM	MANUFACTURER	24 A	40 A / 3	1 SET	3 #6	#8 GND.	1"	2.20%	
208 V										
HVAC - ACCU-203	LPC3	30/3 NEMA 3R NFDS	13 A	20 A / 2	1 SET	3 #8	#8 GND.	3/4"	1.51%	
HVAC - ACCU-205	LPC3	30/3 NEMA 3R NFDS	15 A	25 A / 2	1 SET	3 #8	#8 GND.	3/4"	2.44%	
HVAC - ACCU-212	LPC3	30/3 NEMA 3R NFDS	15 A	25 A / 2	1 SET	3 #8	#8 GND.	3/4"	2.02%	
HVAC - ACCU-C10A	LPC3	30/3 NEMA 3R NFDS	18 A	30 A / 2	1 SET	3 #8	#10 GND.	3/4"	1.62%	
HVAC - ACCU-C10B	LPC3	30/3 NEMA 3R NFDS	18 A	30 A / 2	1 SET	3 #8	#10 GND.	3/4"	1.88%	
HVAC - ACCU-C12	LPC3	30/3 NEMA 3R NFDS	18 A	30 A / 2	1 SET	3 #6	#8 GND.	1"	1.47%	
HVAC - ACCU-C13	LPC3	60/3 NEMA 3R NFDS	30 A	45 A / 2	1 SET	3 #4	#4 GND.	1 1/4"	1.78%	
HVAC - ACCU-C14	LPC3	30/3 NEMA 3R NFDS	18 A	30 A / 2	1 SET	3 #6	#6 GND.	1"	2.09%	
HVAC - ACCU-C15	LPC3	30/3 NEMA 3R NFDS	18 A	30 A / 2	1 SET	3 #6	#8 GND.	1"	2.36%	
HVAC - ACCU-C16	LPC3	60/3 NEMA 3R NFDS	30 A	45 A / 2	1 SET	3 #4	#4 GND.	1 1/4"	2.94%	
HVAC - ACCU-C19A	LPC3	30/3 NEMA 3R NFDS	18 A	30 A / 2	1 SET	3 #6	#6 GND.	1"	2.10%	
HVAC - ACCU-C19B	LPC3	30/3 NEMA 3R NFDS	18 A	30 A / 2	1 SET	3 #8	#8 GND.	3/4"	2.79%	
HVAC - ACCU-C21A	LPC3	60/3 NEMA 3R NFDS	30 A	45 A / 2	1 SET	3 #6	#8 GND.	1"	2.93%	
HVAC - ACCU-C21B	LPC3	60/3 NEMA 3R NFDS	30 A	45 A / 2	1 SET	3 #6	#8 GND.	1"	2.83%	
HVAC - ACCU-C21C	LPC3	60/3 NEMA 3R NFDS	30 A	45 A / 2	1 SET	3 #6	#8 GND.	1"	2.75%	
HVAC - ACCU-C23	LPC3	60/3 NEMA 3R NFDS	30 A	45 A / 2	1 SET	3 #6	#8 GND.	1"	1.45%	
HVAC - CR-K1	KL	30/3 NFDS	8 A	20 A / 2	1 SET	3 #12	#12 GND.	3/4"	1.10%	
HVAC - EF-C1	LPC2	30/3 NEMA 3R NFDS	7 A	20 A / 2	1 SET	3 #12	#12 GND.	3/4"	0.61%	
HVAC - EF-K6	KM	30/3 NEMA 3R NFDS	7 A	20 A / 2	1 SET	3 #12	#12 GND.	3/4"	1.41%	
HVAC - EF-K8	KM	30/3 NEMA 3R NFDS	7 A	20 A / 2	1 SET	3 #12	#12 GND.	3/4"	1.50%	
HVAC - EF-M1	MM	30/3 NEMA 3R NFDS	7 A	20 A / 2	1 SET	3 #10	#10 GND.	3/4"	2.77%	
HVAC - EF-M2	MM	30/3 NEMA 3R NFDS	7 A	20 A / 2	1 SET	3 #12	#12 GND.	3/4"	2.89%	
HVAC - HUV-203	LPC3	MANUFACTURER	6 A	20 A / 2	1 SET	3 #12	#12 GND.	3/4"	1.43%	
HVAC - HUV-205	LPC3	MANUFACTURER	3 A	20 A / 2	1 SET	3 #12	#12 GND.	3/4"	1.37%	
HVAC - HUV-212	LPC3	MANUFACTURER	6 A	20 A / 2	1 SET	3 #12	#12 GND.	3/4"	1.96%	
HVAC - HUV-C10A	LPC3	MANUFACTURER	3 A	20 A / 2	1 SET	3 #12	#12 GND.	3/4"	0.51%	
HVAC - HUV-C10B	LPC3	MANUFACTURER	3 A	20 A / 2	1 SET	3 #12	#12 GND.	3/4"	0.67%	
HVAC - HUV-C12	LPC3	MANUFACTURER	3 A	20 A / 2	1 SET	3 #12	#12 GND.	3/4"	0.85%	
HVAC - HUV-C13	LPC3	MANUFACTURER	3 A	20 A / 2	1 SET	3 #12	#12 GND.	3/4"	1.06%	
HVAC - HUV-C14	LPC3	MANUFACTURER	3 A	20 A / 2	1 SET	3 #12	#12 GND.	3/4"	1.44%	
HVAC - HUV-C15	LPC3	MANUFACTURER	3 A	20 A / 2	1 SET	3 #12	#12 GND.	3/4"	1.59%	
HVAC - HUV-C16	LPC3	MANUFACTURER	3 A	20 A / 2	1 SET	3 #12	#12 GND.	3/4"	1.88%	
HVAC - HUV-C19A	LPC3	MANUFACTURER	7 A	20 A / 2	1 SET	3 #12	#12 GND.	3/4"	2.75%	
HVAC - HUV-C21A	LPC3	MANUFACTURER	3 A	20 A / 2	1 SET	3 #12	#12 GND.	3/4"	1.17%	
HVAC - HUV-C21B	LPC3	MANUFACTURER	3 A	20 A / 2	1 SET	3 #12	#12 GND.	3/4"	1.03%	
HVAC - HUV-C21C	LPC3	MANUFACTURER	3 A	20 A / 2	1 SET	3 #12	#12 GND.	3/4"	0.85%	
HVAC - HUV-C23	LPC3	MANUFACTURER	3 A	20 A / 2	1 SET	3 #12	#12 GND.	3/4"	0.53%	

LIGHT FIXTURE SCHEDULE						
TYPE	DESCRIPTION	MOUNTING	DRIVER	MANUFACTURER	NOTES	
CA	6" DOWNLIGHT	RECESSED	0-10V	GOTHAM #EVOG-40K-2000LM-AR-LSS-UNV-MD-GZ10	1, 2, 3	
HA	1x4 WRAP	SURFACE	0-10V	KENALL #MLHA8-48-R-MW-PP-45L40K-120V-FS-PH	1, 2, 3	
HA	INDUSTRIAL	SURFACE / CABLE	0-10V	KENALL #MLHA8-48-R-MW-PP-45L40K-120V-FS-PH	1, 2, 3	
HA*	1x4 WRAP	SURFACE	0-10V	KENALL #MLHA8-48-R-MW-PP-45L40K-120V-FS-PH-LEL	1, 2, 3	
IA	INDUSTRIAL	SURFACE / CABLE	0-10V	LITHONIA #ZL1D-L48-5000LM-FST-MVOLT-40K-80CRI-WH	1, 2, 3	
IB	INDUSTRIAL	SURFACE / CABLE	0-10V	LITHONIA #ZL1D-L48-7000LM-FST-MVOLT-40K-80CRI-WH	1, 2, 3	
IC	INDUSTRIAL	SURFACE / CABLE	0-10V	LITHONIA #ZL1D-L24-2000LM-FST-MVOLT-40K-80CRI-WH	1, 2	
RA	2x2 TROFFER	RECESSED	0-10V	FINELITE #HPR-A-2X2-DCO-B-840-120V-9C-C1	1, 2, 3	
RB	2x2 TROFFER	RECESSED	0-10V	FINELITE #HPR-A-2X2-DCO-H-840-120V-9C-C1	1, 2, 3	
RC	1x4 TROFFER	RECESSED	0-10V	FINELITE #HPR-A-1X4-DCO-B-840-120V-9C-C1	1, 2, 3	
T	LED TRACK HEAD	TRACK	0-10V	JUNO #TL114-G2-(COLOR TEMP)-90CRI-NFL-(COLOR)	1, 2	
TG	ARCHITECTURAL TRACK	SURFACE	0-10V	JUNO SINGLE CKT TRACK - G'	1, 2	
U	LED WALL PACK	WALL		LITHONIA # CSXWLED-1-30B53Q/40K-SR3-277-9F-DNAXD	1, 2, 3	
X1	EXIT SIGN - SINGLE FACE	UNIVERSAL		LITHONIA #LQC-W-1-R	1, 2	
X2	EXIT SIGN - DOUBLE FACE	UNIVERSAL		LITHONIA #LQC-W-2-R	1, 2	

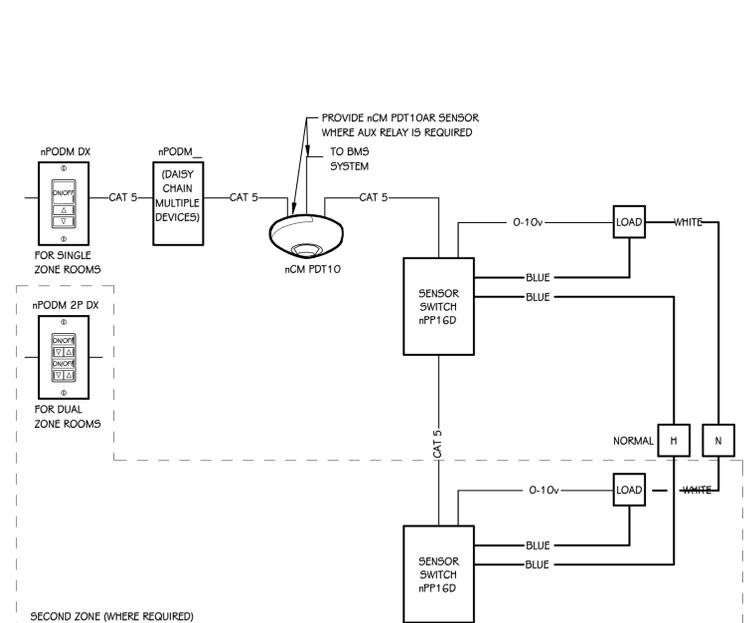
- 1 ALL LED FIXTURES TO HAVE WARRANTY TO MEET OR EXCEED WARRANTY INCLUDED IN BASIS OF DESIGN. FIXTURES LISTED AS EQUALS SHALL MEET DELIVERED LUMENS, CRI, EFFICACY AND OPTIONS OF THAT SPECIFIED. REFER TO SPECIFICATIONS 265100 AND 265600 FOR ADDITIONAL REQUIREMENTS.
- 2 THE MOUNTING DESCRIPTION IS GENERAL. REFER TO SHOP DRAWINGS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SPECIFIC MOUNTING DETAILS.
- 3 FIXTURES WITH THE CENTER CIRCLE SHADED SHALL BE CONNECTED TO EMERGENCY POWER. FIXTURES WITH CENTER CIRCLE SHADED THAT ARE SWITCHED SHALL BE PROVIDED WITH BODINE "ELD" TRANSFER DEVICE. FOR INDIVIDUAL FIXTURES DEVICE SHALL BE MOUNTED INTERNAL TO THE FIXTURE. PROVIDE LABEL ON INSIDE OF FIXTURE INDICATING FED FROM MULTIPLE CIRCUITS. WHERE DEVICE CANNOT BE MOUNTED INSIDE OF FIXTURE, MOUNT ADJACENT TO FIXTURE IN ACCESSIBLE CEILING SPACE.



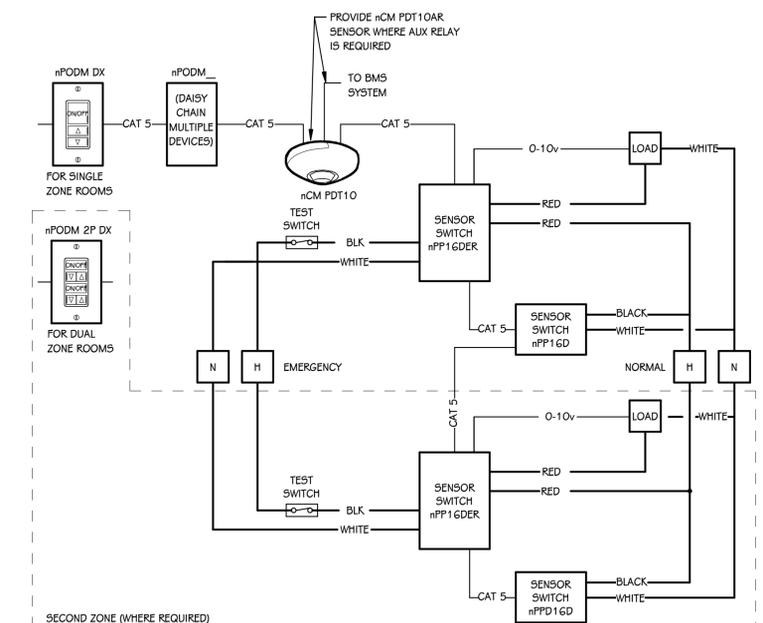
SINGLE ZONE DIMMING CONTROLLER
SCALE: NONE



DUAL ZONE DIMMING CONTROLLER
SCALE: NONE



OCCUPANCY SENSOR WIRING DIAGRAM
SCALE: NONE



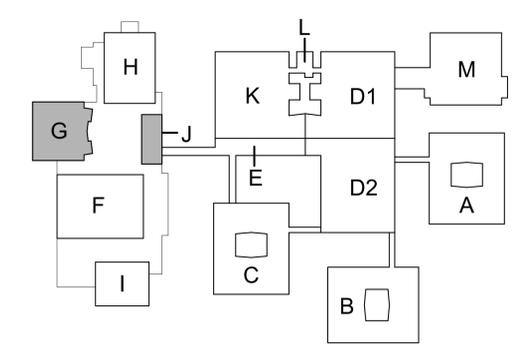
EMERGENCY OCCUPANCY SENSOR WIRING DIAGRAM
SCALE: NONE

TECHNOLOGY DEMOLITION KEYED NOTES

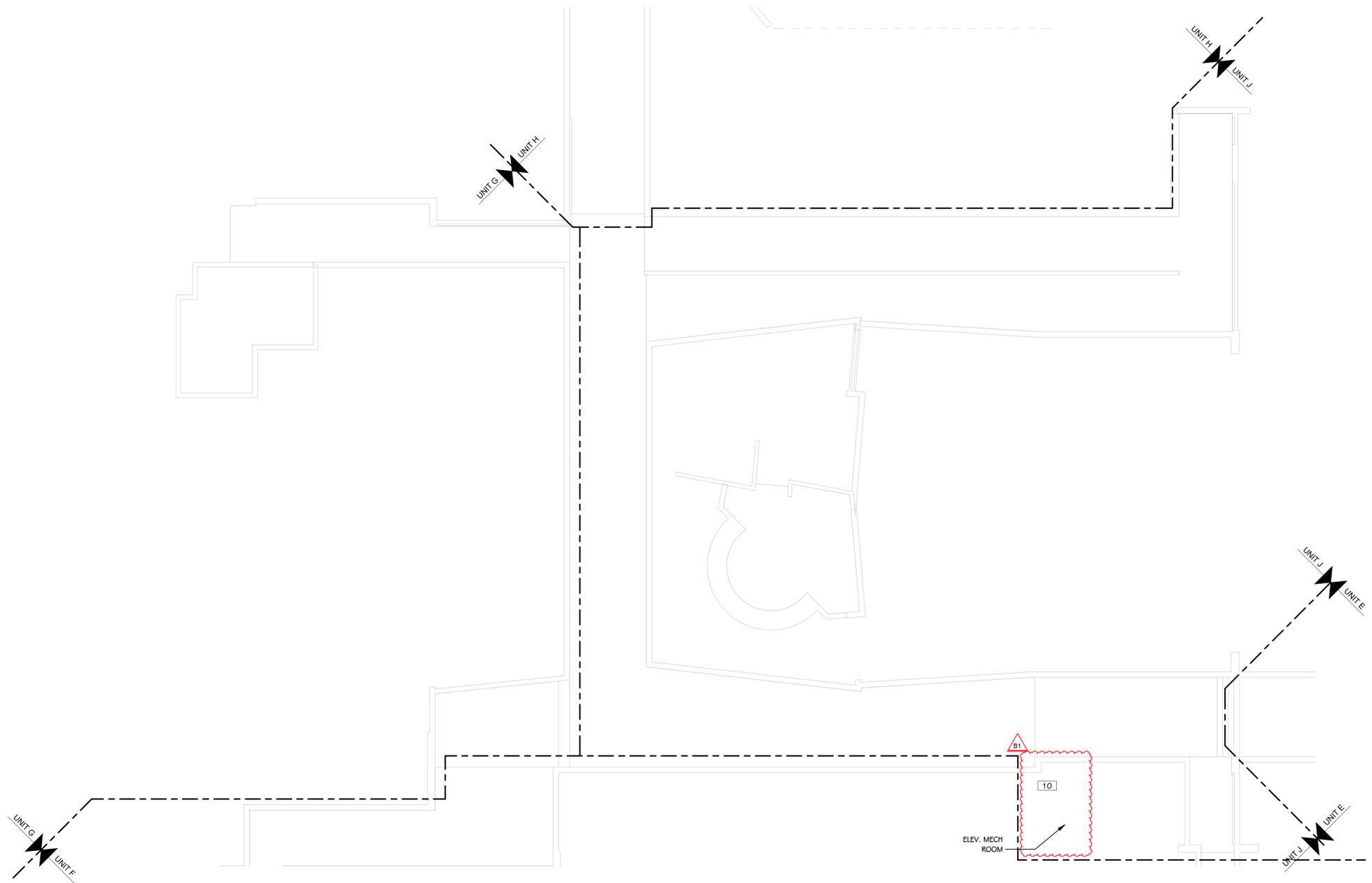
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LEVEL 1 - KEY PLAN



KEY PLAN
SCALE: NO SCALE



LOWER LEVEL TECHNOLOGY DEMOLITION PLAN - UNIT J
3/32" = 1'-0"

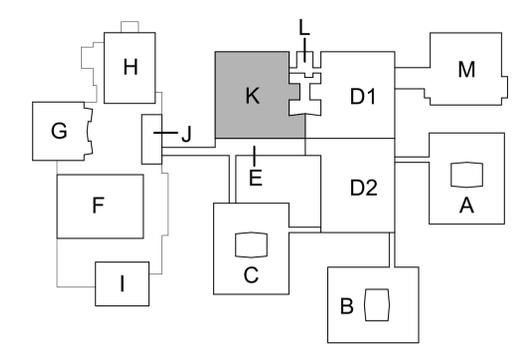


TECHNOLOGY DEMOLITION KEYED NOTES

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LEVEL 1 - KEY PLAN



KEY PLAN
SCALE: NO SCALE

BULLETIN NO. 1 December 16, 2024

ISSUED FOR DATE

PROJECT TITLE
LOY NORRICH HIGH SCHOOL MECHANICAL IMPROVEMENTS PROJECT

OWNER
KALAMAZOO PUBLIC SCHOOLS
Kalamazoo, Michigan

SHEET TITLE
LOWER LEVEL TECHNOLOGY DEMOLITION PLAN - UNIT K

SHEET NUMBER
TD 100K
21-807.00

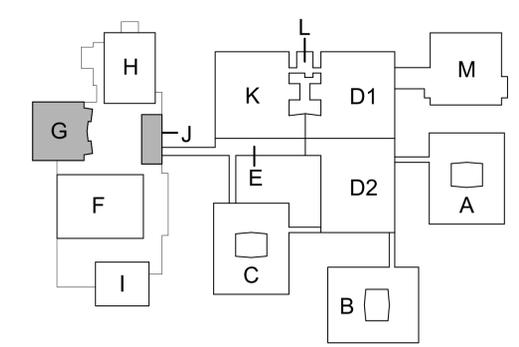
DATE
SEPTEMBER 16, 2024

TECHNOLOGY DEMOLITION KEYED NOTES

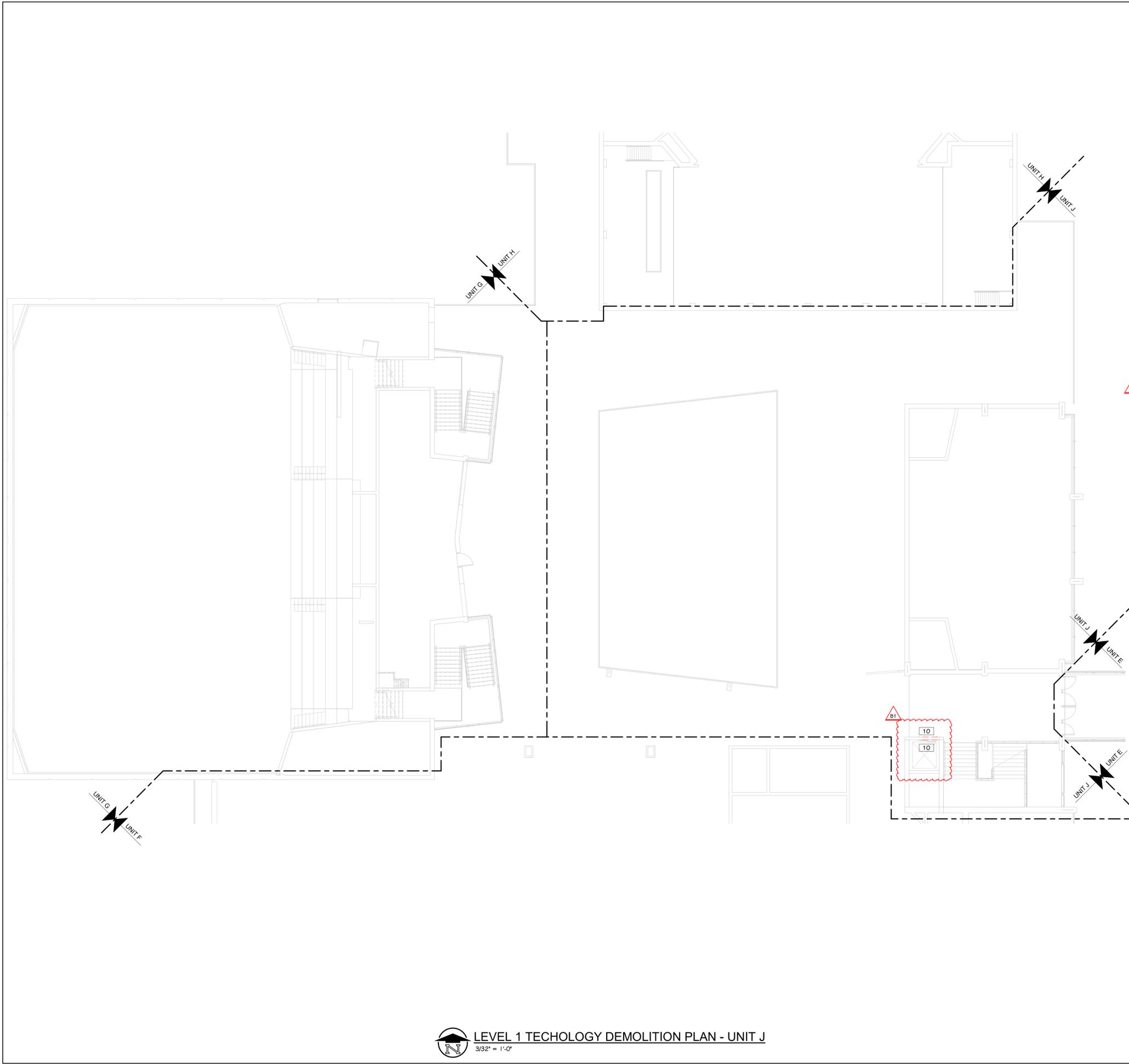
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LEVEL 1 - KEY PLAN



KEY PLAN
 SCALE: NO SCALE



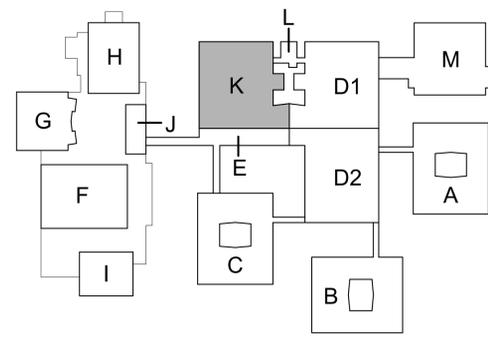
LEVEL 1 TECHNOLOGY DEMOLITION PLAN - UNIT J
 3/32" = 1'-0"

TECHNOLOGY DEMOLITION KEYED NOTES

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LEVEL 1 - KEY PLAN



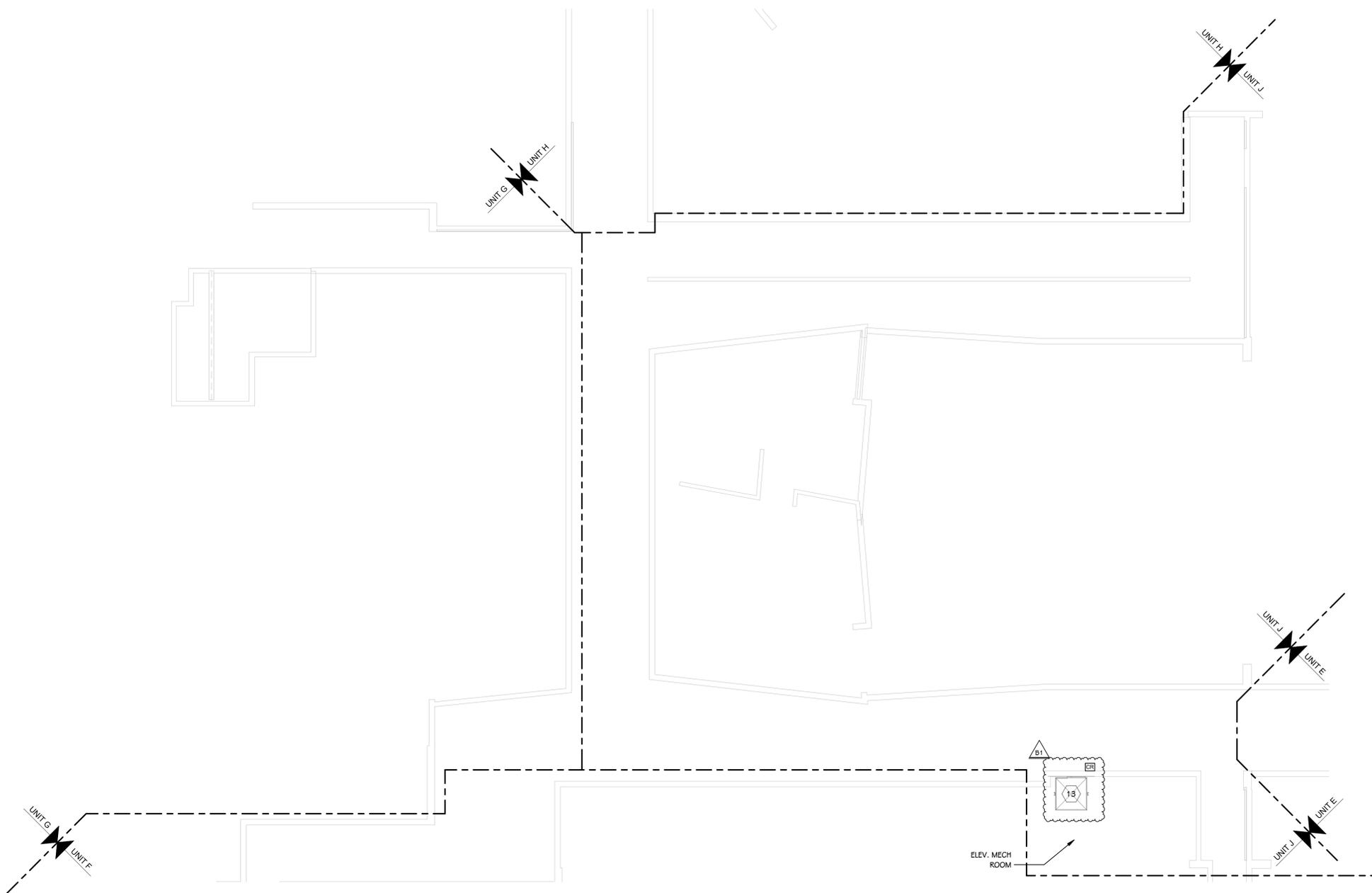
KEY PLAN
SCALE: NO SCALE



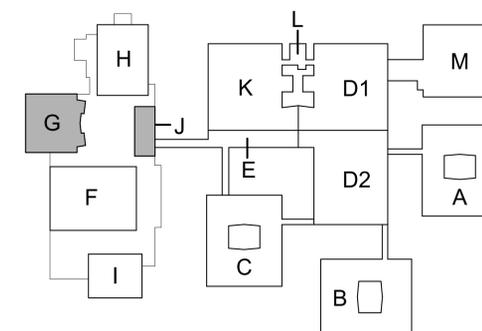
FIRST FLOOR TECHNOLOGY DEMOLITION PLAN - UNIT K
3/32" = 1'-0"

TECHNOLOGY KEYED NOTES

- RETRIEVE AV SPEAKERS FROM KPS TECHNOLOGY SERVICES LOCATED AT: 600 W. VINE ST., KALAMAZOO, MI 49008. INSTALL SPEAKERS THAT WERE REMOVED DURING DEMO PHASE. PAGING SYSTEM SPEAKER CENTERED IN SPACE, EQUALLY SPACING AV SPEAKERS IN ROOM FOR BEST STUDENT SEATING COVERAGE.
- REMOVE PLASTIC FROM WALL MOUNTED CABINET, CLEAN ALL DUST AND DEBRIS FROM CABINET (INSIDE AND OUT) AND NETWORK EQUIPMENT.
- RETRIEVE WIRELESS ACCESS POINT FROM KPS TECHNOLOGY SERVICES LOCATED AT: 600 W. VINE ST., KALAMAZOO, MI 49008. INSTALL WIRELESS ACCESS POINTS BACK WHERE THEY WERE REMOVED FROM CEILING. DOCUMENT MAC ADDRESS, DATA CABLE NUMBER, AND ASSOCIATED ROOM NUMBER.
- RETRIEVE CAMERAS FROM KPS TECHNOLOGY SERVICES LOCATED AT: 600 W. VINE ST., KALAMAZOO, MI 49008. INSTALL SECURITY CAMERAS THAT WERE REMOVED DURING DEMO PHASE. COORDINATE WITH OWNERS FOR CAMERA COVERAGE. PULL NEW DATA CABLE IF CABLE DOES NOT REACH NEW LOCATION.
- RETRIEVE PROJECTORS FROM KPS TECHNOLOGY SERVICES LOCATED AT: 600 W. VINE ST., KALAMAZOO, MI 49008. INSTALL PROJECTORS THAT WERE REMOVED DURING DEMO PHASE. CENTER ON WHITEBOARDS/PROJECTOR SCREENS. RECONNECT CABLES THAT WERE DISCONNECTED AND TEST AV SYSTEM FOR COMPLETE FUNCTIONALITY.
- INSTALL NEW PAGING SPEAKERS USING EXISTING CABLING.
- ROUTE RELEASE BUTTON AND LOCKDOWN BUTTON CABLING DOWN VERTICAL RACEWAY TO FINAL LOCATION AT RECEPTION'S DESK.
- ROUTE RELEASE BUTTON AND LOCKDOWN BUTTON TO PRINCIPAL'S DESK.
- REINSTALL PRODUCTS THAT WERE REMOVED DURING DEMOLITION. RETRIEVE FROM KPS TECHNOLOGY SERVICES LOCATED AT: 600 W. VINE ST., KALAMAZOO, MI 49008. THIS INCLUDES, BUT IS NOT LIMITED TO: AV SPEAKERS, PAGING SPEAKERS, PROJECTORS, WIRELESS ACCESS POINTS AND SECURITY CAMERAS. DOCUMENT CABLE IDS AND MAC ADDRESSES, AND RETURN PRODUCT TO KPS TECHNOLOGY SERVICES.
- RETRIEVE CLOCKS FROM KPS TECHNOLOGY SERVICES LOCATED AT: 600 W. VINE ST., KALAMAZOO, MI 49008. INSTALL CLOCKS THAT WERE REMOVED DURING DEMO PHASE.
- REINSTALL ANY UNDOCUMENTED DEVICES THAT WERE REMOVED DURING DEMOLITION. THESE DEVICES INCLUDE BUT ARE NOT LIMITED TO: PROJECTORS, PROJECTOR MOUNTS, AV SPEAKERS, WIRELESS ACCESS POINTS, AND CLOCKS. RETRIEVE DEVICES FROM KPS TECHNOLOGY SERVICES LOCATED AT: 600 W. VINE ST., KALAMAZOO, MI 49008.
- RECONNECT AV SPEAKERS. NEW WIRING AND CONDUIT MAY BE REQUIRED.
- CAMERA AND FOBS SHALL BE SUPPLIED BY SECURITY CONTRACTOR. INSTALLATION OF CAMERAS AND FOBS SHALL BE BY ELEVATOR CONTRACTOR. SECURITY CONTRACTOR SHALL COORDINATE WITH ELEVATOR CONTRACTOR AND GC.
- CAMERAS AND FOBS SHALL HAVE A DEDICATED TRAVEL CABLE. ESTIMATED 6 SHIELDED PAIRS AND 1 COAXIAL CABLE. ELEVATOR CONTRACTOR SHALL COORDINATE WITH GC AND SECURITY CONTRACTOR.

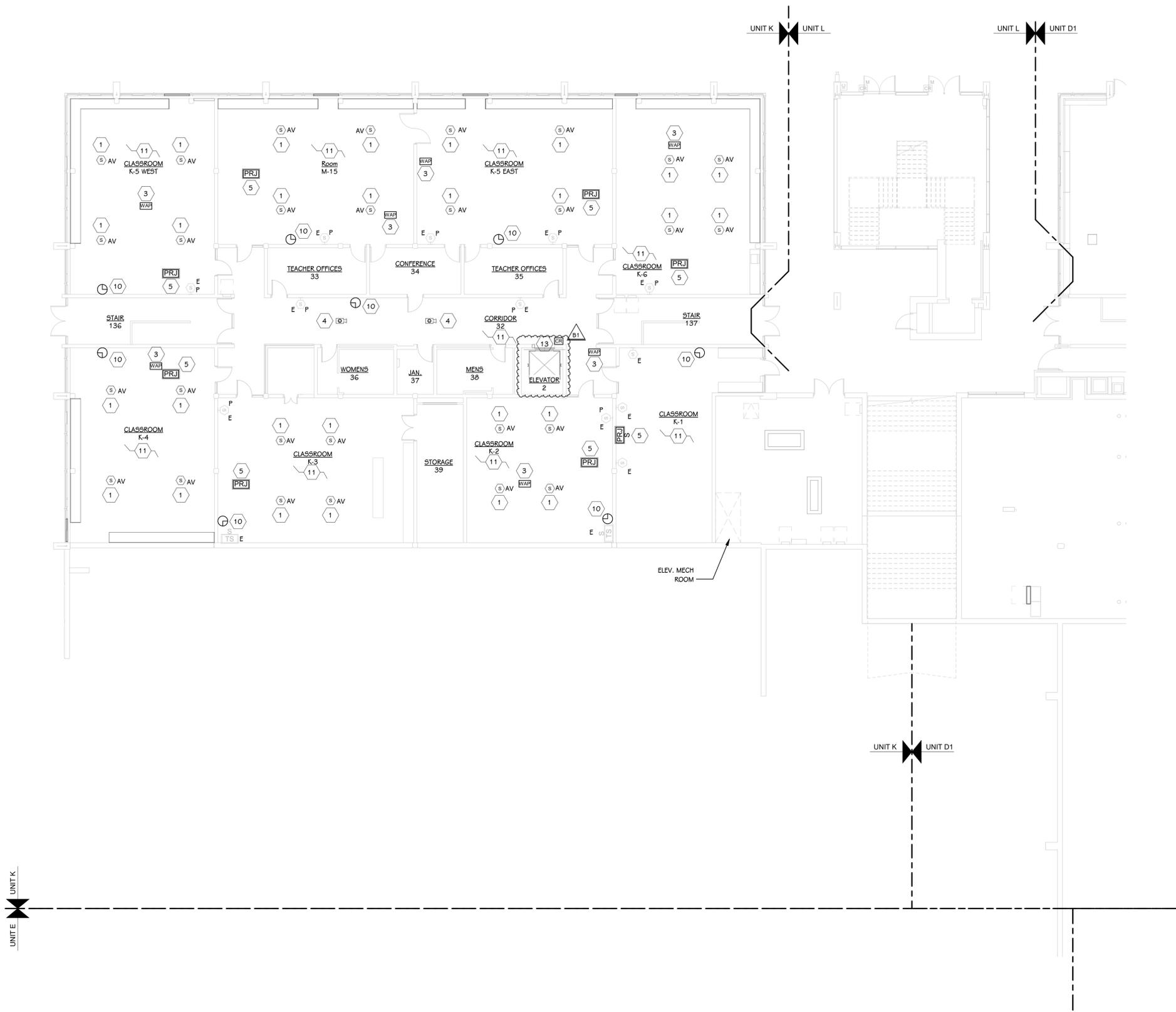


LEVEL 1 - KEY PLAN



KEY PLAN
SCALE: NO SCALE

LOWER LEVEL FLOOR TECHNOLOGY PLAN - UNIT J
3/32" = 1'-0"



TECHNOLOGY KEYED NOTES

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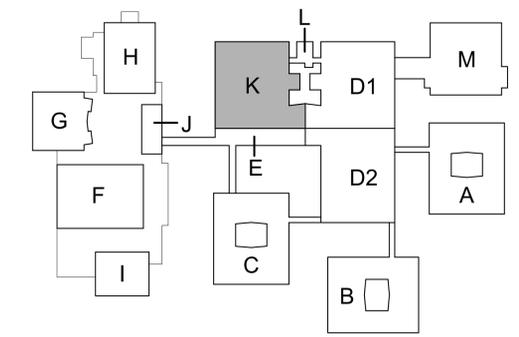
BULLETIN NO. 1 December 16, 2024

ISSUED FOR DATE

PROJECT TITLE
LOY NORRIS HIGH SCHOOL MECHANICAL IMPROVEMENTS PROJECT

OWNER
KALAMAZOO PUBLIC SCHOOLS
Kalamazoo, Michigan

LEVEL 1 - KEY PLAN

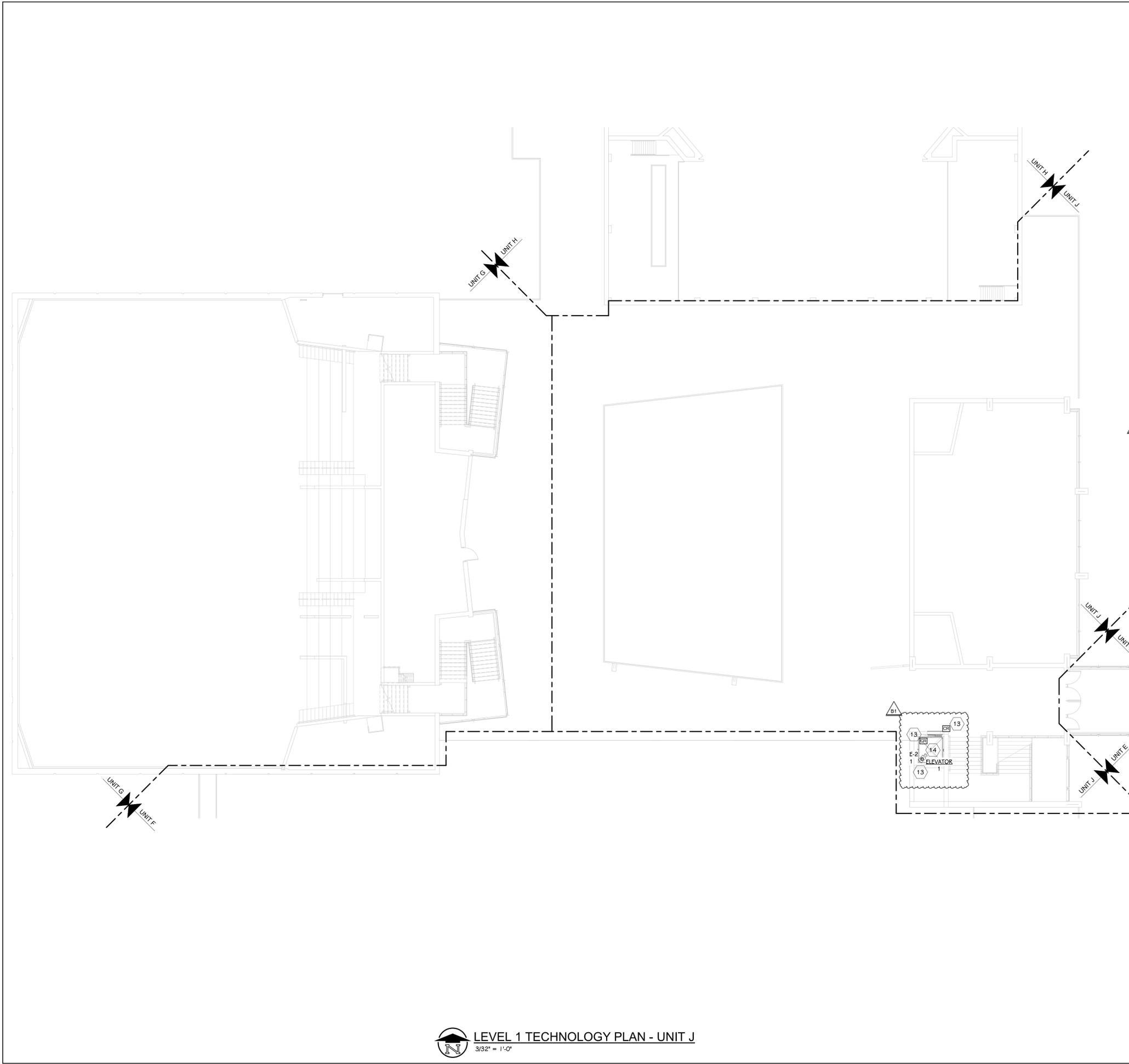


KEY PLAN
SCALE: NO SCALE

SHEET TITLE
LOWER LEVEL TECHNOLOGY PLAN - UNIT K

DATE
SEPTEMBER 16, 2024

SHEET NUMBER
T 100K
21-807.00



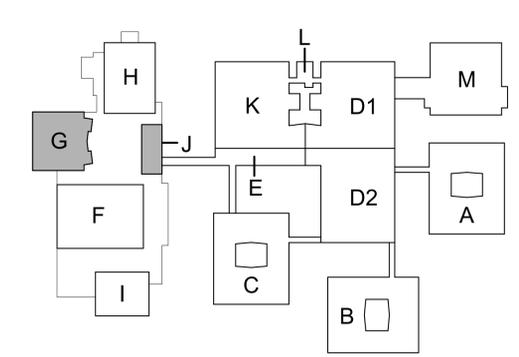
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LEVEL 1 - KEY PLAN



KEY PLAN
SCALE: NO SCALE

LEVEL 1 TECHNOLOGY PLAN - UNIT J
3/32" = 1'-0"

BULLETIN NO. 1 December 16, 2024

ISSUED FOR DATE

PROJECT TITLE
LOY NORRIS HIGH SCHOOL MECHANICAL IMPROVEMENTS PROJECT

OWNER
KALAMAZOO PUBLIC SCHOOLS
Kalamazoo, Michigan

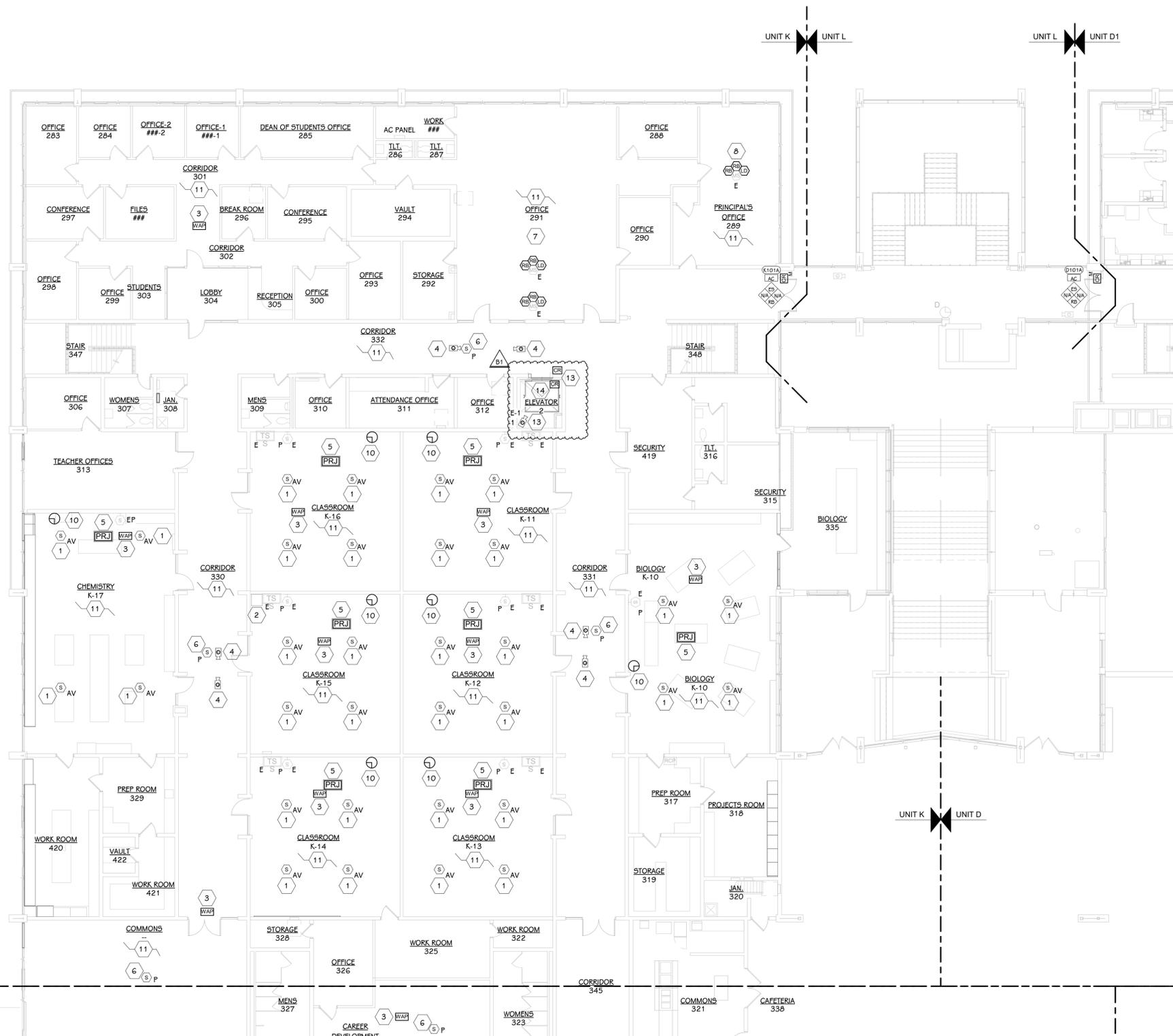
SHEET TITLE
FIRST FLOOR TECHNOLOGY PLAN - UNIT J

DATE
SEPTEMBER 16, 2024

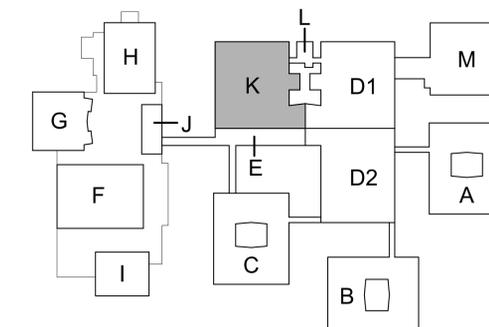
SHEET NUMBER
T 101J
21-807.00

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LEVEL 1 - KEY PLAN

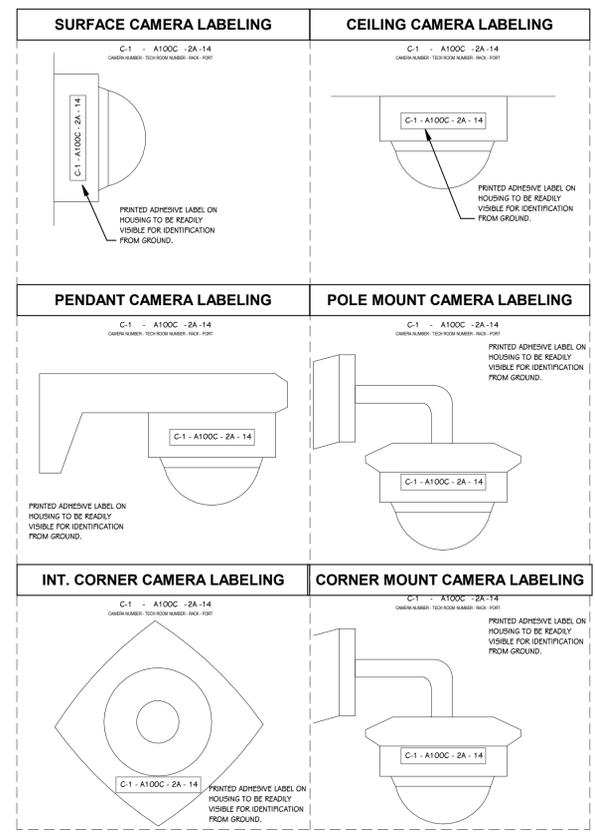


KEY PLAN
 SCALE: NO SCALE

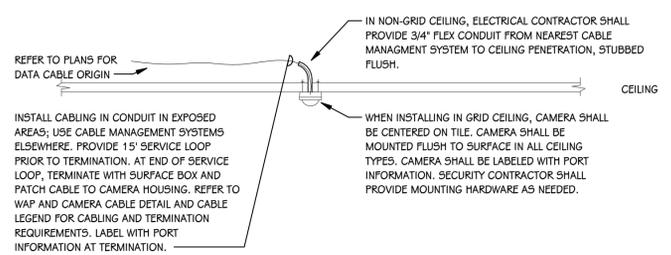
FIRST FLOOR TECHNOLOGY PLAN - UNIT K
 3/32" = 1'-0"

SECURITY CAMERA SCHEDULE				
CAMERA NUMBER	MAKE/MODEL	MOUNTING TYPE	DATA DROPS	COMMENTS
E-1	AXIS P9117-PV	ELEVATOR CORNER	1	
E-2	AXIS P9117-PV	ELEVATOR CORNER	1	

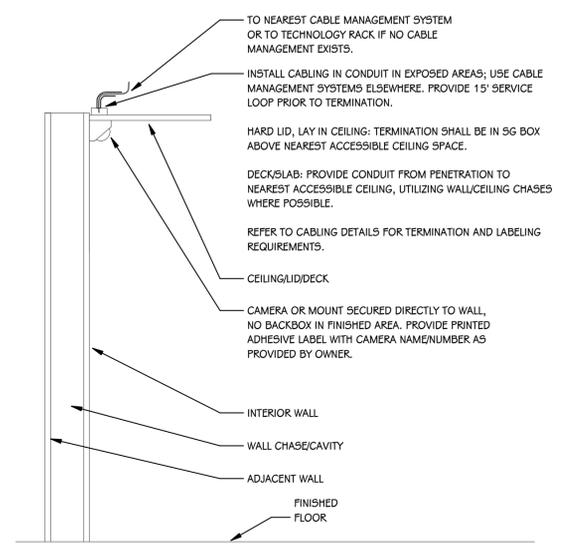
EACH CAMERA SHALL REQUIRE (1) LICENSE.
 ELEVATOR CAMERAS PROVIDED BY SECURITY CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.



TYPICAL CAMERA LABELING DETAIL
 SCALE: NONE



TYPICAL SECURITY CAMERA ROUGH-IN - CEILING
 SCALE: NONE



TYPICAL SECURITY CAMERA ROUGH-IN - INTERIOR CORNER
 SCALE: NONE

BULLETIN NO. 1 December 16, 2024

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PROJECT TITLE
 LOY NORRICH HIGH SCHOOL MECHANICAL IMPROVEMENTS PROJECT

OWNER
 KALAMAZOO PUBLIC SCHOOLS

Kalamazoo, Michigan

SHEET TITLE
 CAMERA DETAILS

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T 402
 21-807.00