



COMcheck Software Version 4.1.5.3 Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Jefferson Elementary School Addition and Remodel
Project Type: Addition

Construction Site: 600 N. Fillmore Street, Jerome, ID 83338
Owner/Agent: LKV Architects, 2400 E Riverwalk Drive, Boise, ID 83706
Designer/Contractor: Musgrove Engineering, 234 S Whisperwood Way, Boise, ID 83709, 208-384-0585

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-School/University	47424	0.81	38413
Total Allowed Watts =			38413

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-School/University				
LED 1: BL1: Other:	1	9	20	183
LED 2: BL2: Other:	1	16	20	325
LED 3: FL1: Other:	1	36	28	1022
LED 18: FL2: Other:	1	6	34	204
LED 3: GL1: Other:	1	110	32	3487
LED 4: GL2: Other:	1	188	24	4437
LED 4: GL2A: Other:	1	1	24	24
LED 5: GL3: Other:	1	23	32	743
LED 5: GL3A: Other:	1	10	32	323
LED 5: HB1: Other:	1	24	105	2520
LED 7: RL1: Other:	1	9	10	94
LED 8: RL2: Other:	1	13	22	292
LED 10: SL1: Other:	1	1	17	17
LED 11: SL2: Other:	1	5	13	65
LED 12: WB1: Other:	1	13	19	243
LED 13: WB2: Other:	1	2	12	24
Track lighting 1: TL1: Wattage based on total luminaires	0	0	100	100
Track lighting 2: TL1: Wattage based on total luminaires	0	0	100	100
Track lighting 3: TL1: Wattage based on total luminaires	0	0	100	100
Track lighting 4: TL1: Wattage based on total luminaires	0	0	100	100
LED 9 copy 1: SL1: Other:	1	36	25	900
Total Proposed Watts =				15303

Project Title: Jefferson Elementary School Addition and Remodel
Data filename: P:\Files\2022\22104\CALCS\ELEC\22104 Electrical_Compliance.cck
Report date: 02/21/23
Page 1 of 8

Interior Lighting PASSES: Design 60% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Angelo Neglia - Electrical Designer
Name - Title: Angelo Neglia
Signature: [Signature]
Date: 02/21/2023

Project Title: Jefferson Elementary School Addition and Remodel
Data filename: P:\Files\2022\22104\CALCS\ELEC\22104 Electrical_Compliance.cck
Report date: 02/21/23
Page 2 of 8



COMcheck Software Version 4.1.5.3 Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Jefferson Elementary School Addition and Remodel
Project Type: Addition
Exterior Lighting Zone: 2 (Residentially zoned area (LZ2))

Construction Site: 600 N. Fillmore Street, Jerome, ID 83338
Owner/Agent: LKV Architects, 2400 E Riverwalk Drive, Boise, ID 83706
Designer/Contractor: Musgrove Engineering, 234 S Whisperwood Way, Boise, ID 83709, 208-384-0585

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Pedestrian and vehicular entrances and exits	21 ft of door	14	Yes	294
Total Tradable Watts (a) =				294
Total Allowed Watts =				294
Total Allowed Supplemental Watts (b) =				400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Pedestrian and vehicular entrances and exits (21 ft of door width): Tradable Wattage				
LED 1: RL1: Other:	1	1	10	10
LED 2: WP1: Other:	1	3	10	30
Total Tradable Proposed Watts =				40

Exterior Lighting PASSES: Design 94% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Angelo Neglia - Electrical Designer
Name - Title: Angelo Neglia
Signature: [Signature]
Date: 02/21/2023

Project Title: Jefferson Elementary School Addition and Remodel
Data filename: P:\Files\2022\22104\CALCS\ELEC\22104 Electrical_Compliance.cck
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Page 3 of 8

ENERGY CODE COMMISSIONING COMPLIANCE NOTES

SECTION 408 SYSTEM COMMISSIONING

IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL BELOW NOTED DOCUMENTS WITHIN 90 DAYS OF CERTIFICATE OF OCCUPANCY:

- AS-BUILT DRAWINGS** - DRAWINGS SHALL INCLUDE THE LOCATION AND PERFORMANCE DATA OF ALL PIECES OF MECHANICAL EQUIPMENT.
- OPERATING AND MAINTENANCE MANUALS** - MANUALS SHALL INCLUDE THE FOLLOWING:
 - SUBMITTAL DATA ON ALL PIECES OF EQUIPMENT REQUIRING MAINTENANCE.
 - MANUFACTURER'S OPERATIONS AND MAINTENANCE DATA ON ALL PIECES OF EQUIPMENT. ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
 - NAME AND ADDRESS AND PHONE NUMBER OF AT LEAST ONE (1) SERVICE PROVIDED.
 - LIGHTING CONTROL SYSTEMS MAINTENANCE AND CALIBRATION INFORMATION INCLUDING WIRING DIAGRAMS, EQUIPMENT AND SYSTEM SCHEMATICS, AND CONTROL SEQUENCES OF OPERATIONS. DESIRED OR FIELD DETERMINED SETPOINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT ALL CONTROL DEVICES, OR FOR DIGITAL CONTROL SYSTEMS, IN THE SYSTEM PROGRAMMING INSTRUCTIONS.
 - A NARRATIVE ON HOW EACH LIGHTING SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.
- LIGHTING SYSTEM FUNCTIONAL TESTING REQUIREMENTS**
FUNCTIONAL TESTING - ALL AUTOMATIC LIGHTING CONTROL SYSTEM SHALL BE FULLY TESTED TO ENSURE THE CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED, AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.

WHERE OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE CONTROLS, PHOTOSENSORS OR DAYLIGHTING CONTROLS ARE INSTALLED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

- CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE.
- CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
- CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.
- FINAL LIGHTING SYSTEM FUNCTIONAL REPORT** - A REPORT OF TEST PROCEDURES AND RESULTS IDENTIFIED AS THE "FINAL LIGHTING CONTROL REPORT" SHALL BE DELIVERED TO THE BUILDING OWNER. THE REPORT SHALL INCLUDE THE FOLLOWING:
 - LIST OF FUNCTIONAL TESTS USED DURING THE COMMISSIONING PROCESS ON EACH PIECE OF EQUIPMENT.
 - RESULTS OF ALL FUNCTIONAL TESTS ON ALL PIECES OF EQUIPMENT.
 - LIST OF DEFICIENCIES FOUND AND CORRESPONDING CORRECTIVE MEASURES EITHER IMPLEMENTED OR PROPOSED ON EACH PIECE OF EQUIPMENT.
 - LIST OF EQUIPMENT NOT ABLE TO BE FUNCTIONALLY TESTED DUE TO CURRENT CLIMATE CONDITIONS. THESE PIECES OF EQUIPMENT WILL FUNCTIONALLY TESTED ONCE CLIMATE CHANGES ALLOW.

IECC 2018 DAYLIGHT-RESPONSIVE CONTROL CALCULATION

IS DAYLIGHT-RESPONSIVE CONTROL REQUIRED ON THIS PROJECT?	=	NO DRC REQUIRED
TCLP	<	LPA _{ADI}
15,303	<	33,950
IECC C405.3.1 (EQUATION 4-10)		
TOTAL CONNECTED INTERIOR LIGHTING POWER (W)		
TCLP = LVL+BLL+LED+TRK+OTHER	TCLP =	15,303
IECC C405.2.3 Exception 4 (EQUATION 4-9)		
ADJUSTED BUILDING INTERIOR LIGHTING POWER ALLOWANCE (W)		
LPA _{ADI} = [LPA _{NORM} * (1.0 - 0.4 * (UDZFA/TBFA))]	LPA _{ADI} =	33,950
REDUCED LIGHTING POWER ALLOWANCE (W)		
LPA _{NORM} = 90% of (LPD * SqFt * .90)	LPA _{NORM} =	34,572
INTERIOR LIGHTING POWER ALLOWANCE (IECC TABLE C405.3.2(1)) LPD	A =	0.81
BUILDING AREA	B =	47,424
REDUCED LIGHTING POWER (IECC C406.3)	R =	0.90
UDZFA = UNCONTROLLED DAYLIGHT ZONE FLOOR AREA		
THE SUM OF ALL SIDE LIT AND TOPLIT ZONES CALCULATED		
BY IECC C405.2.3.2 AND IECC C405.2.3.3	UDZFA =	2,134
TBFA = TOTAL BUILDING FLOOR AREA	TBFA =	47,424
UNCONTROLLED DAYLIGHTING ZONE FLOOR AREA		
ROOM	SQFT OF DAY LIGHT ZONE	
NEW COMPUTER LAB	109	118
NEW CLASSROOM	120	118
NEW FACULTY ROOM	145	92
NEW CAFETERIA	163	468
RAMP	190	232
GYM FOYER	183	1106



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www.musgrovepa.com
OVER 40 YEARS OF EXCELLENCE
Project No: 22-104



#	Date	Description
1	05/11/2023	Addendum #1

Jefferson Elementary School
Addition and Remodel

600 N. Fillmore Street, Jerome, Idaho

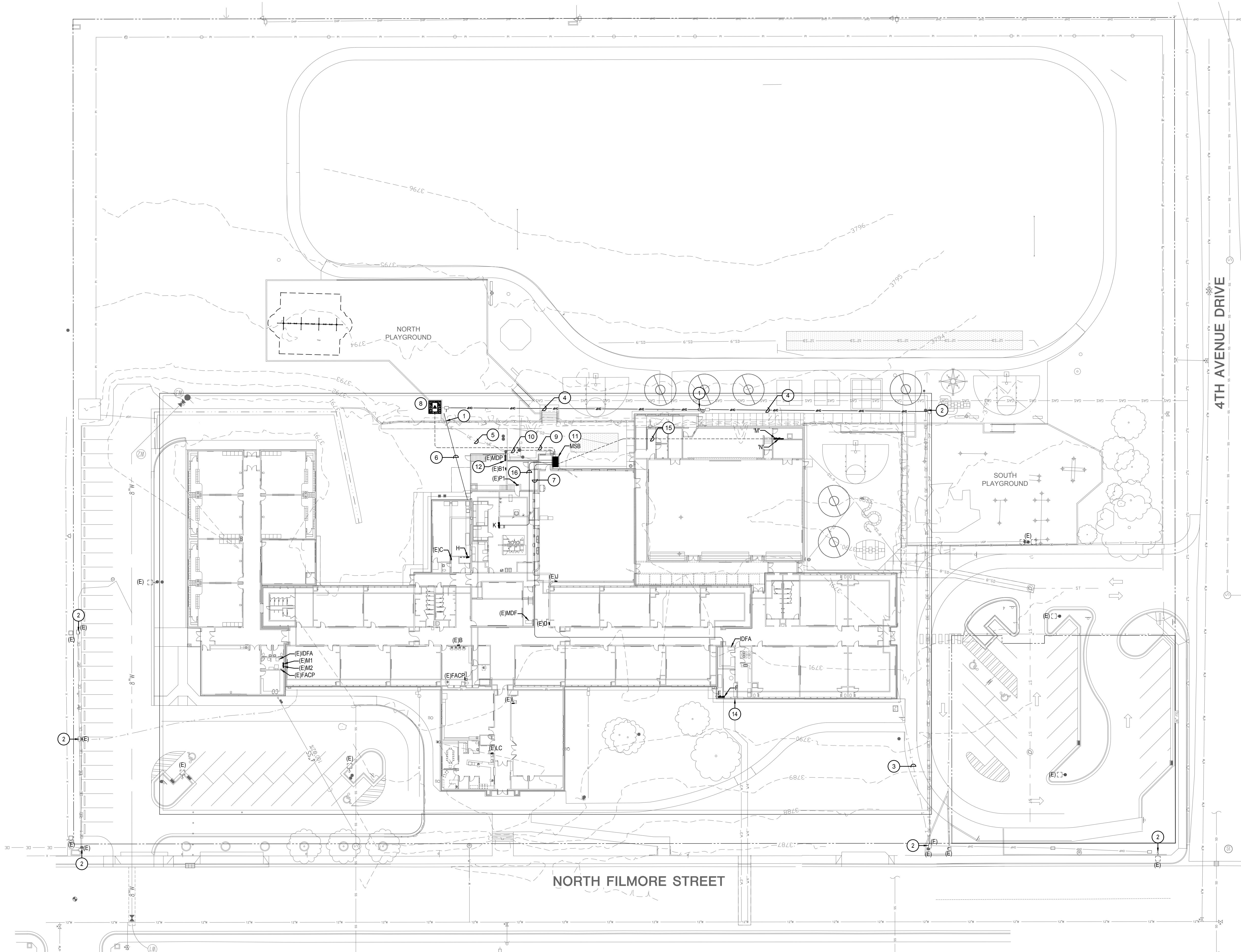
DATE: February 24, 2023
LKV PROJECT # -
REVISIONS:

DRAWN BY: AN
CHECKED BY: KL

Design Development

DRAWING NO.

E-0.1
LIGHTING COMPLIANCE



KEYED NOTES:

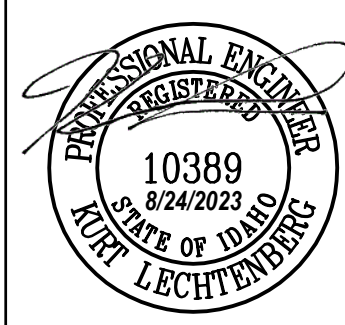
- 1. APPROXIMATE LOCATION OF EXISTING UTILITY POLE TO BE REMOVED. COORDINATE REMOVAL WITH IDAHO POWER.
- 2. APPROXIMATE LOCATION OF EXISTING UTILITY POLE TO REMAIN. SHOWN FOR REFERENCE.
- 3. APPROXIMATE LOCATION OF EXISTING LOW-VOLTAGE OVERHEAD CABLING SHOWN FOR REFERENCE.
- 4. APPROXIMATE LOCATION OF EXISTING OVERHEAD ELECTRICAL AND COMMUNICATION UTILITY CABLING TO BE REMOVED AFTER NEW UTILITY SERVICE PATHWAYS ARE ESTABLISHED. COORDINATE REMOVAL OF IDAHO POWER LINES WITH LEO SANCHEZ (208-736-3464). COORDINATE REMOVAL OF COMMUNICATION CABLING WITH xx xx (208-xxx-xxxx).
- 5. APPROXIMATE LOCATION OF EXISTING UNDERGROUND UTILITY SECONDARY CONDUIT AND CONDUCTORS FED FROM OVERHEAD POLE MOUNTED TRANSFORMER. EXISTING CONDUIT AND CONDUCTORS TO BE DISCONNECTED FROM POLE TRANSFORMER AND RE-ROUTED UNDERGROUND TO NEW PAD MOUNTED TRANSFORMER BY IDAHO POWER. SECONDARY CONDUIT AND CONDUCTORS TO BE REMOVED AFTER NEW ELECTRICAL SERVICE IS ESTABLISHED. COORDINATE RE-ROUTING OF UNDERGROUND SECONDARY AND OVERHEAD POWER POLE REMOVAL WITH IDAHO POWER AND PROJECT PHASING.
- 6. APPROXIMATE LOCATION OF EXISTING OVERHEAD LOW-VOLTAGE COMMUNICATION CABLES TO BE REMOVED BY THE ELECTRICAL CONTRACTOR. REMOVE CABLES BACK TO SOURCE. COORDINATE REMOVAL OF LOW-VOLTAGE COMMUNICATION CABLING WITH THE SCHOOL DISTRICT IT DEPARTMENT PRIOR TO BEGINNING WORK.
- 7. APPROXIMATE ROUTE OF PANEL 'F' FEEDERS. ROUTE CONDUITS OVERHEAD FROM 'MSB' TO PANEL. CONCEAL CONDUITS WHERE POSSIBLE.
- 8. PAD MOUNTED TRANSFORMER, PAD, AND METER BY IDAHO POWER COMPANY.
- 9. NEW UNDERGROUND SECONDARY BY ELECTRICAL CONTRACTOR. COORDINATE WITH PROJECT PHASING. RE: ONE-LINE DIAGRAM.
- 10. APPROXIMATE ROUTE OF NEW UNDERGROUND CONDUITS AND CONDUCTORS TO BACK-FEED EXISTING DISTRIBUTION PANELBOARD 'MDP'. COORDINATE FINAL ROUTE WITH FIELD CONDITIONS AND PROJECT PHASING. RE: ONE-LINE DIAGRAM.
- 11. NEW MAIN SWITCHBOARD 'MSB' CENTERED ON VESTIBULE WALL. RE: ONE-LINE DIAGRAM.
- 12. EXISTING DISTRIBUTION PANEL BOARD 'DPB' LOCATED IN THE BASEMENT. RE: ONE-LINE DIAGRAM.
- 13. APPROXIMATE ROUTE OF EXISTING UNDERGROUND FIBER OPTIC SERVICE CABLING TO REMAIN. SHOWN FOR REFERENCE.
- 14. COORDINATE EXACT LOCATION OF PIV WITH SPRINKLER CONTRACTOR.
- 15. APPROXIMATE ROUTE OF UNDERGROUND CONDUITS SERVING NEW PANELS 'N' AND 'M'. COORDINATE FINAL ROUTE WITH FIELD CONDITIONS AND PROJECT PHASING. RE: ONE-LINE DIAGRAM. RE: ONE-LINE DIAGRAM.
- 16. APPROXIMATE ROUTE OF PANEL 'K' FEEDERS. ROUTE CONDUITS OVERHEAD FROM 'MSB' TO PANEL. CONCEAL CONDUITS WHERE POSSIBLE.



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Project No. 22-104



Revisions	Date
Description Addendum #1	05/11/2023

**Jefferson Elementary School
Addition and Remodel**
600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
LKV PROJECT #: -
REVISIONS:

DRAWN BY: AN
CHECKED BY: KL

Design Development

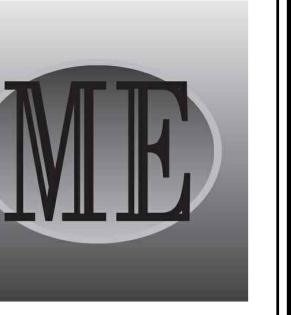
DRAWING NO.

E-1.0
ELECTRICAL SITE PLAN

Electrical Site Plan
Scale: 1" = 30'-0"



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#	Revisions	Description	Date
1	Addendum #1		05/11/2023

**Jefferson Elementary School
Addition and Remodel**

600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
LKV PROJECT #:
REVISIONS:

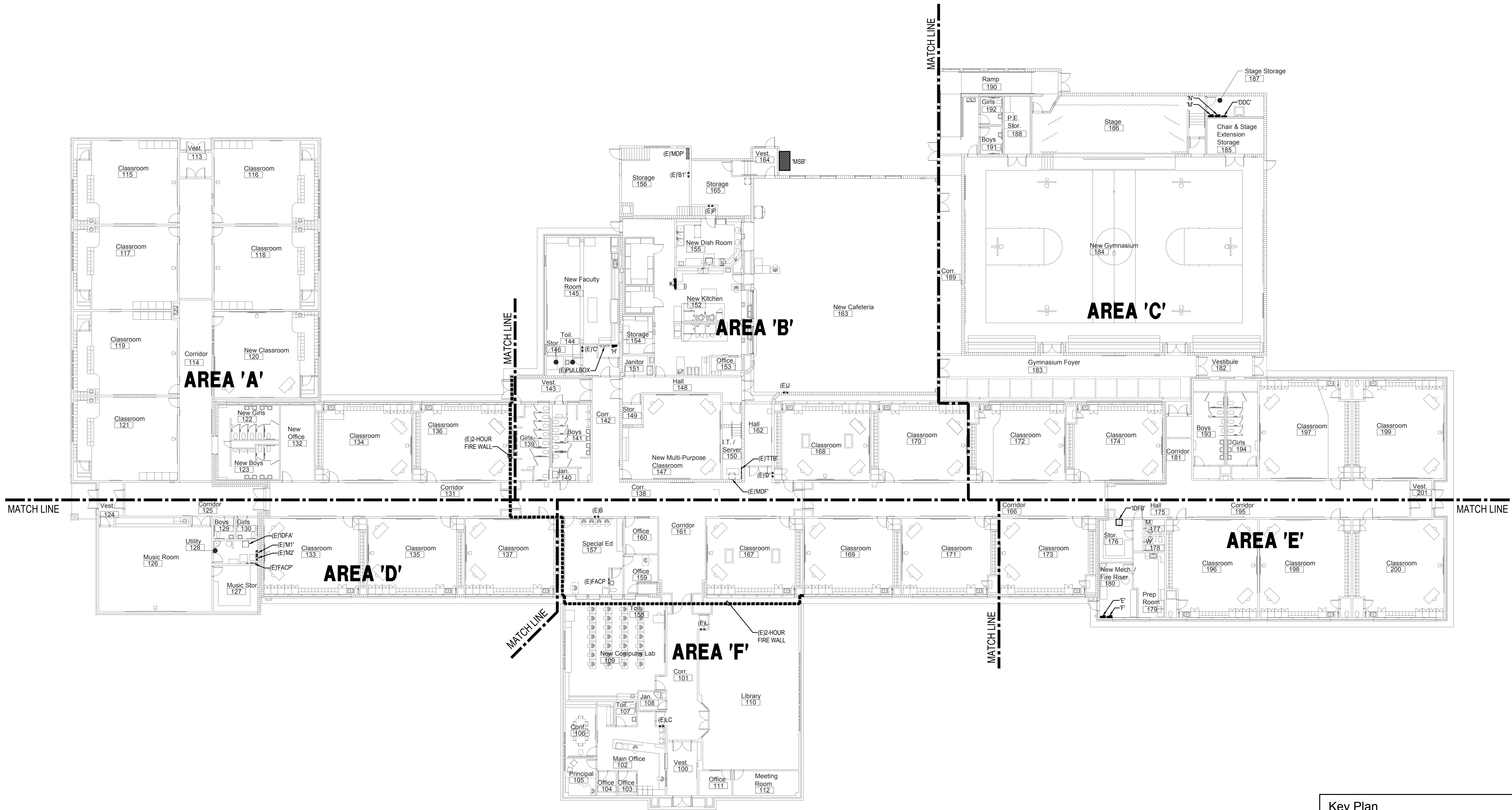
DRAWN BY: AN
CHECKED BY: KL

Design Development

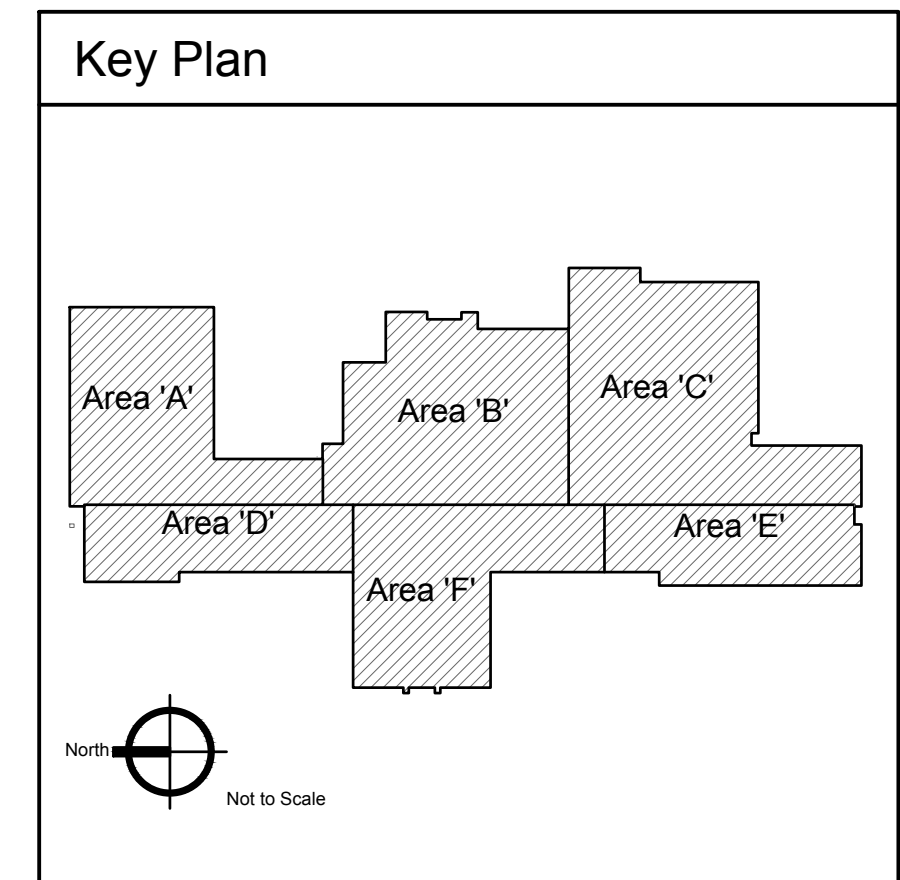
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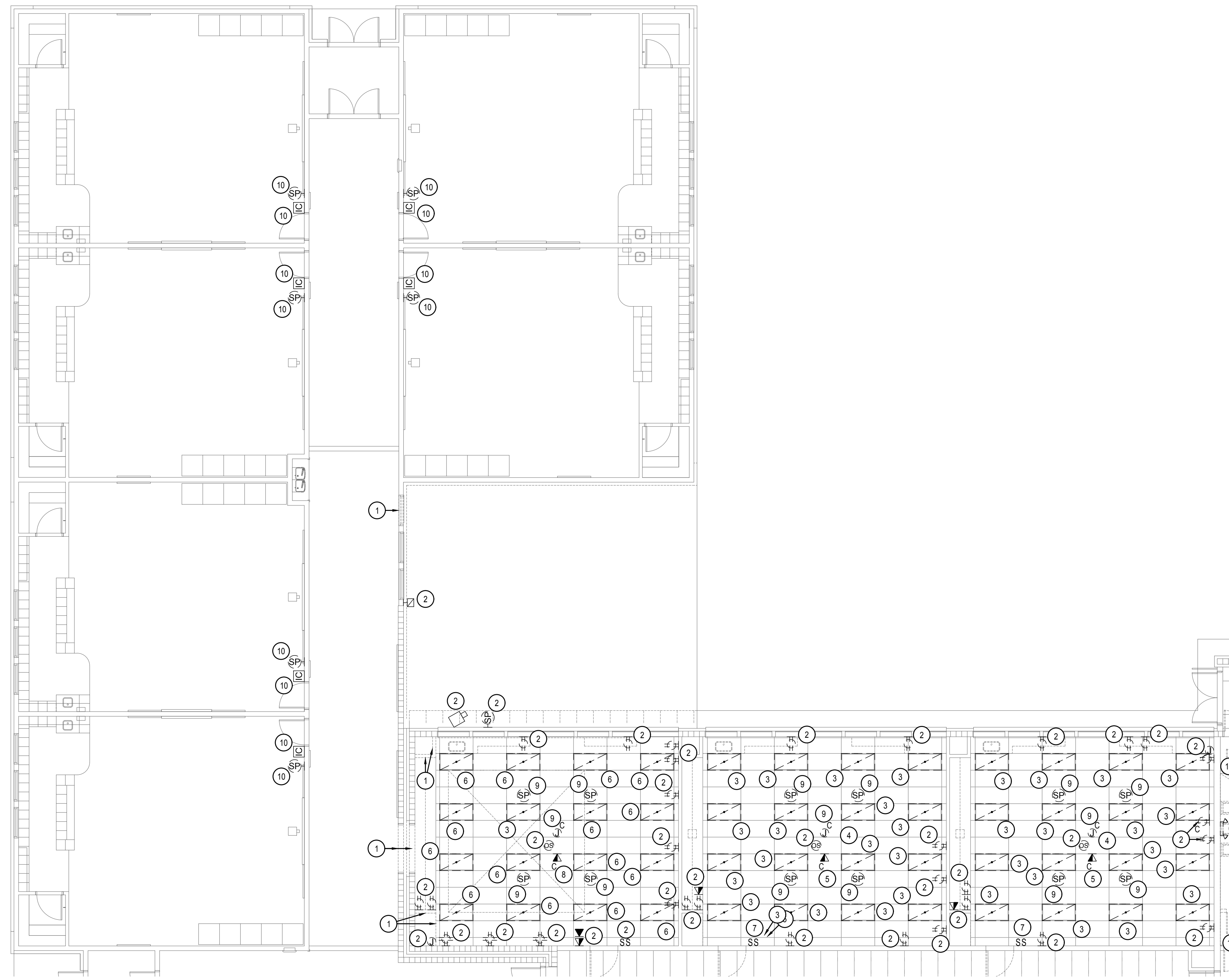
E-2.0

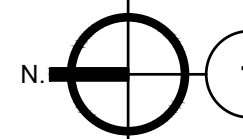
OVERALL ELECTRICAL
FLOOR PLAN



Overall Electrical Floor Plan
Scale: 1/16" = 1'-0"

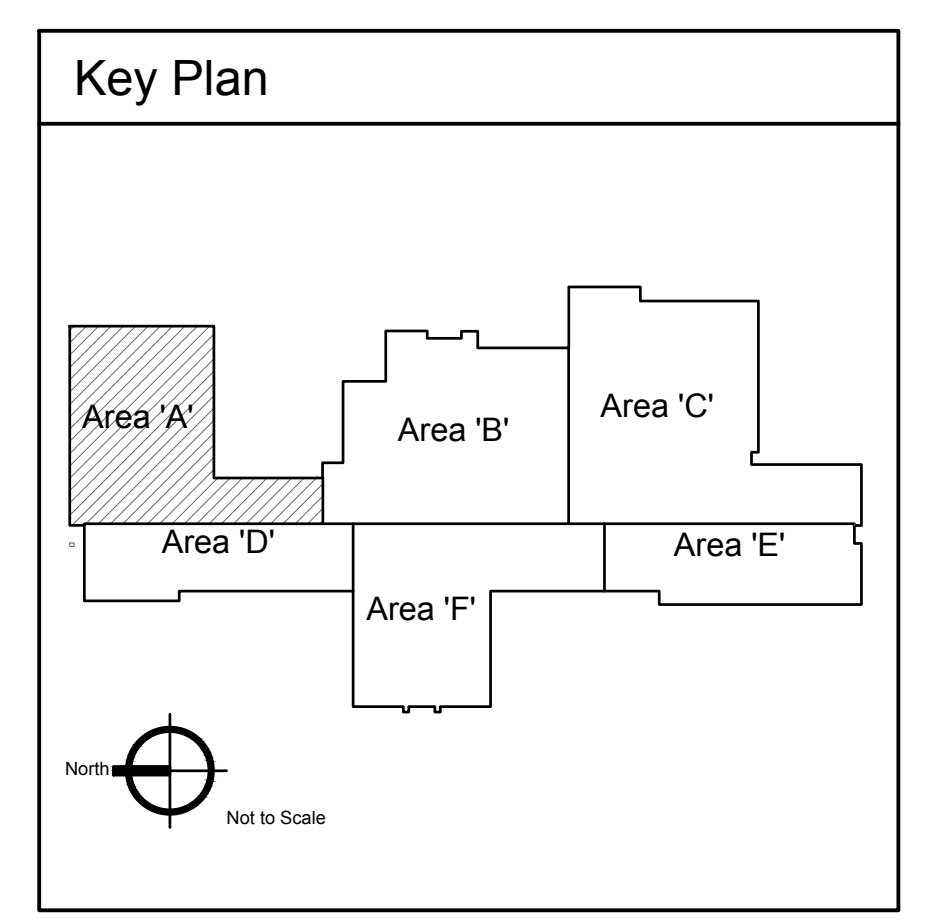






1 Electrical Demolition Plan - Area 'A'
 Scale: 1/8" = 1'-0"


KEYED NOTES:

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. EXISTING WALL TO BE REMOVED. REMOVE ALL EXISTING DEVICES AND JUNCTION BOXES. RE-ROUTE CONDUIT AND CONDUCTORS AS REQUIRED TO MAINTAIN POWER TO ALL DOWN STREAM DEVICE THAT ARE EXISTING TO REMAIN.
- 2. EXISTING DEVICE TO BE REMOVED. REMOVE ALL CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. MAINTAIN CONTINUITY TO ALL DOWNSTREAM DEVICES THAT ARE TO REMAIN.
- 3. EXISTING LIGHT FIXTURE TO BE DISCONNECTED AND REMOVED. MAINTAIN THE EXISTING SWITCHED LIGHTING CIRCUIT FOR EXTENSION TO THE NEW LIGHTING IN THIS ROOM. REMOVE CONDUIT, CONDUCTORS AND JUNCTION BOXES THAT ARE UNUSED AFTER NEW LIGHTING HAS BEEN INSTALLED AND CONNECTED. REFER TO THE LIGHTING PLAN FOR THE NEW LIGHTING LAYOUT. MAINTAIN CONTINUITY TO ALL DOWNSTREAM LIGHTING AND DEVICES THAT ARE TO REMAIN.
- 4. EXISTING SUSPENDED ACOUSTIC CEILING TILE (ACT) IN THIS ROOM TO BE REMOVED TO ACCOMMODATE ABOVE CEILING WORK. REMOVE ANY EXISTING CEILING MOUNTED DEVICES THAT ARE TO REMAIN. SAVE AND PROTECT DEVICES AND REINSTALL AFTER THE NEW CEILING IS INSTALLED. MAINTAIN ANY CONDUIT CONDUCTORS AND JUNCTION BOXES FOR DEVICES MOUNTED IN ACT TO REMAIN.
- 5. EXISTING CEILING WIRELESS ACCESS POINT (WAP), DISCONNECT AND REMOVE FOR CEILING DEMOLITION. SAVE AND PROTECT DEVICE AND REINSTALL IN APPROXIMATELY THE SAME LOCATION AFTER THE NEW CEILING IS INSTALLED.
- 6. EXISTING LIGHT FIXTURE TO BE REMOVED. MAINTAIN AN UNSWITCHED LEG OF THE LIGHTING CIRCUIT SERVING THIS AREA FOR EXTENSION TO THE NEW LIGHTING AND CONTROLS. REMOVE ALL UNUSED CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK NEAREST UPSTREAM DEVICES THAT IS TO REMAIN. MAINTAIN CONTINUITY TO ALL DOWNSTREAM DEVICES THAT ARE TO REMAIN.
- 7. EXISTING LIGHT SWITCH(ES) AND COVER PLATE TO BE REPLACED WITH NEW. MAINTAIN EXISTING CONDUIT, BOXES, AND CONDUCTORS FOR CONNECTION TO THE NEW SWITCH(ES).
- 8. EXISTING CEILING MOUNTED WIRELESS ACCESS POINT DEVICE (WAP) TO BE REMOVED AND RETURNED TO THE OWNER. REMOVE ALL ASSOCIATED DATA CABLING BACK TO THE SOURCE.
- 9. EXISTING CEILING MOUNTED CLASSROOM AMPLIFICATION DEVICE TO BE REMOVED. REMOVE ALL ASSOCIATED CONDUIT, BOXES, AND CABLING.
- 10. EXISTING INTERCOM SYSTEM DEVICE TO BE REPLACED WITH NEW. REMOVE EXISTING DEVICE AND CABLING, MAINTAIN EXISTING CONDUIT AND BOXES FOR USE WITH NEW DEVICE. RE-SPECIAL SYSTEMS PLAN.

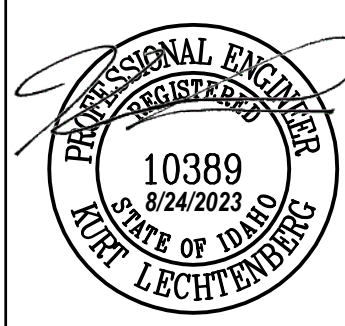




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#	Description	Date
1	Addendum #1	05/11/2023

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600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
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REVISIONS:

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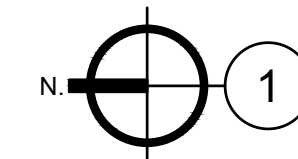
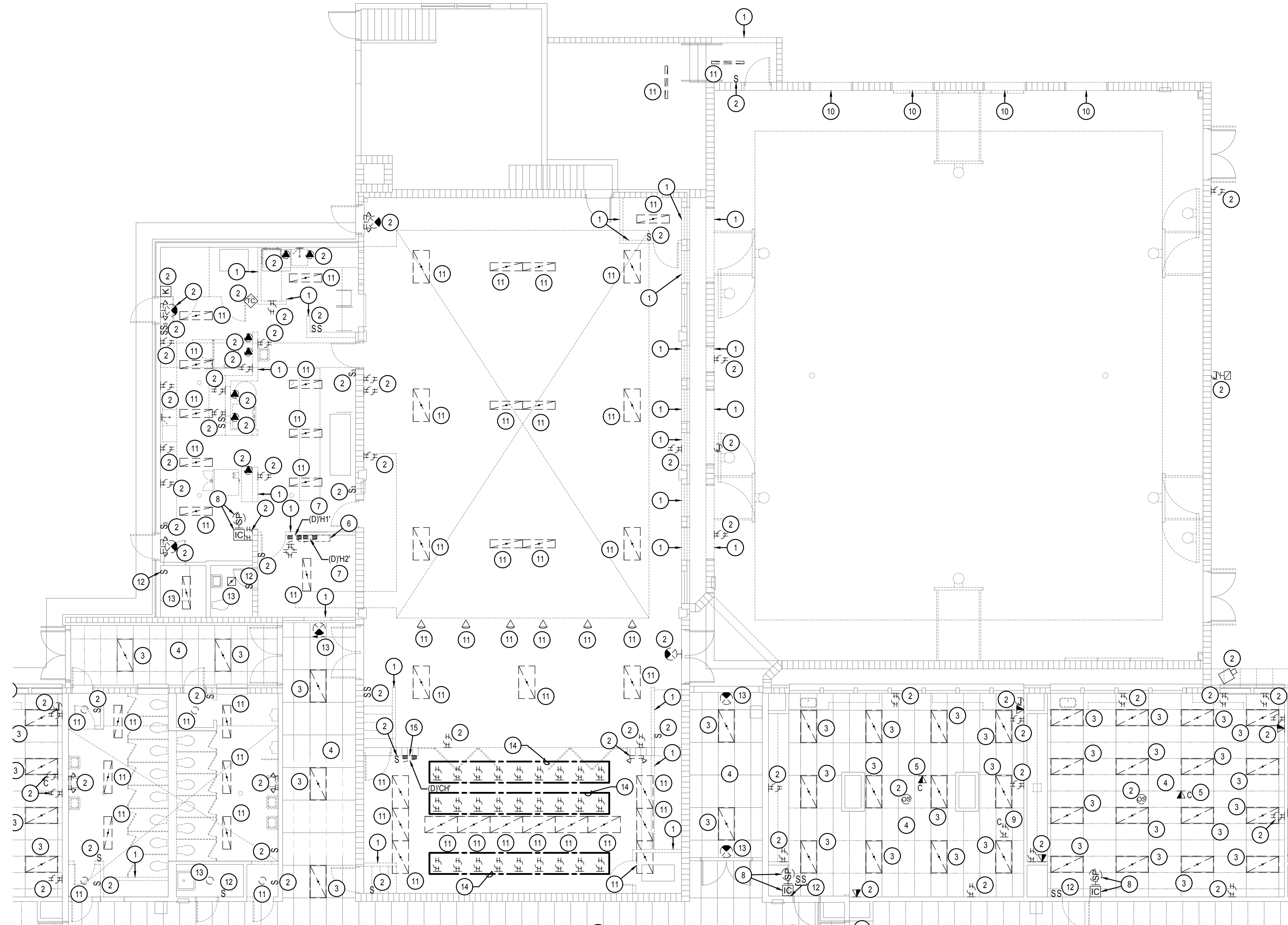
Design Development

DRAWING NO.
E-2.1
ELECTRICAL DEMOLITION
PLAN - AREA 'A'

KEYED NOTES:

SYMBOL USED FOR NOTE CALLOUT.

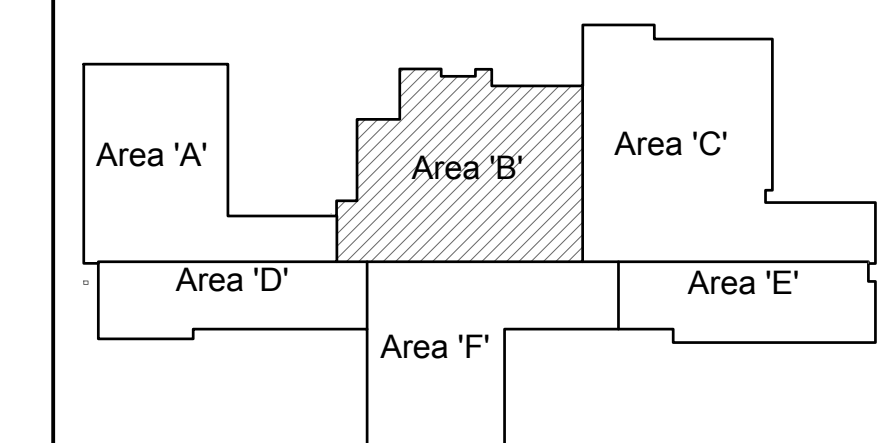
1. EXISTING WALL TO BE REMOVED. REMOVE ALL EXISTING DEVICES AND JUNCTION BOXES. RE-ROUTE CONDUIT AND CONDUCTORS AS REQUIRED TO MAINTAIN POWER TO ALL DOWN STREAM DEVICE THAT ARE EXISTING TO REMAIN.
2. EXISTING DEVICE TO BE REMOVED. REMOVE ALL CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. MAINTAIN CONTINUITY TO ALL DOWNSTREAM DEVICES THAT ARE TO REMAIN.
3. EXISTING LIGHT FIXTURE TO BE DISCONNECTED AND REMOVED. MAINTAIN THE EXISTING SWITCHED LIGHTING CIRCUIT FOR EXTENSION TO THE NEW LIGHTING IN THIS ROOM. REMOVE CONDUIT, CONDUCTORS AND JUNCTION BOXES THAT ARE UNUSED AFTER NEW LIGHTING HAS BEEN INSTALLED AND CONNECTED. REFER TO THE LIGHTING PLAN FOR THE NEW LIGHTING LAYOUT. MAINTAIN CONTINUITY TO ALL DOWNSTREAM LIGHTING AND DEVICES THAT ARE TO REMAIN.
4. EXISTING SUSPENDED ACOUSTIC CEILING TILE (ACT) IN THIS ROOM TO BE REMOVED TO ACCOMMODATE ABOVE CEILING WORK. REMOVE ANY EXISTING CEILING MOUNTED DEVICES THAT ARE TO REMAIN. SAVE AND PROTECT DEVICES AND REINSTALL AFTER THE NEW CEILING IS INSTALLED. MAINTAIN ANY CONDUIT CONDUCTORS AND JUNCTION BOXES FOR DEVICES MOUNTED IN ACT TO REMAIN.
5. EXISTING CEILING WIRELESS ACCESS POINT (WAP), DISCONNECT AND REMOVE FOR CEILING DEMOLITION. SAVE AND PROTECT DEVICE AND REINSTALL IN APPROXIMATELY THE SAME LOCATION AFTER THE NEW CEILING IS INSTALLED.
6. EXISTING ELECTRICAL FEEDER PULLBOX TO REMAIN, SHOWN FOR REFERENCE.
7. EXISTING PANELS 'H' AND 'H1' TO BE REMOVED. REMOVE EXISTING CONDUIT, BOXES, AND FEEDERS BACK TO THE ELECTRICAL FEEDER PULLBOX IN THIS ROOM. MAINTAIN FEEDERS UPSTREAM OF THE PULLBOX FOR EXTENSION TO THE NEW PANEL 'H' TO BE LOCATED IN THIS ROOM. RE-POWER PLAN AND ONE-LINE DIAGRAM.
8. EXISTING INTERCOM SYSTEM DEVICE TO BE REPLACED WITH NEW. REMOVE EXISTING DEVICE AND CABLING. MAINTAIN EXISTING CONDUIT AND BOXES FOR USE WITH NEW DEVICE. RE-SPECIAL SYSTEMS PLAN.
9. EXISTING CEILING MOUNTED DEVICE. DISCONNECT AND REMOVE FOR CEILING DEMOLITION. RE-INSTALL AND RE-CONNECT AT APPROXIMATELY THE SAME LOCATION IN NEW CEILING.
10. BID ALTERNATE #3. EXISTING WALL TO BE REMOVED. REMOVE ALL EXISTING DEVICES AND JUNCTION BOXES. RE-ROUTE CONDUIT AND CONDUCTORS AS REQUIRED TO MAINTAIN POWER TO ALL DOWN STREAM DEVICE THAT ARE EXISTING TO REMAIN.
11. EXISTING LIGHT FIXTURE TO BE REMOVED. MAINTAIN AN UNSWITCHED LEG OF THE LIGHTING CIRCUIT SERVING THIS AREA FOR EXTENSION TO THE NEW LIGHTING AND CONTROLS. REMOVE ALL UNUSED CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. MAINTAIN CONTINUITY TO ALL DOWNSTREAM DEVICES THAT ARE TO REMAIN.
12. EXISTING LIGHT SWITCH(ES) AND COVER PLATE TO BE REPLACED WITH NEW. MAINTAIN EXISTING CONDUIT, BOXES, AND CONDUCTORS FOR CONNECTION TO THE NEW SWITCH(ES).
13. EXISTING LIGHT FIXTURE TO BE REPLACED WITH NEW. REMOVE EXISTING LIGHT FIXTURE, MAINTAIN EXISTING CIRCUIT FOR CONNECTION TO NEW LIGHT FIXTURE.
14. EXISTING COMPUTER DESKS TO BE RELOCATED TO NEW COMPUTER LAB 109. DISCONNECT AND REMOVE THE EXISTING RECEPTACLES AND DATA OUTLETS MOUNTED TO THE DESKS AND ALL ASSOCIATED CONDUIT, BOXES, CONDUCTORS, AND CABLING BACK TO THE SOURCE.
15. APPROXIMATE LOCATION OF EXISTING PANEL 'CH' LOCATED IN THE STORAGE SPACE BELOW. DISCONNECT AND REMOVE PANEL 'CH' AND ALL ASSOCIATED CONDUIT, BOXES, AND CONDUCTORS. PROVIDE NEW CONDUIT, BOXES, AND CONDUCTORS AS REQUIRED TO REROUTE ALL EXISTING BRANCH CIRCUITS THAT ARE TO REMAIN TO NEW PANEL 'H'.



1 Electrical Demolition Plan - Area 'B'

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

Key Plan



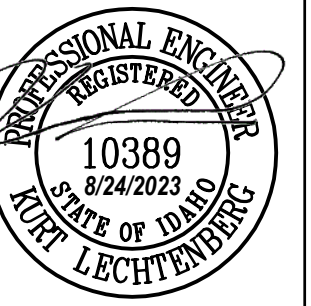
North
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Revisions	Date
Description Addendum #1	05/11/2023

Jefferson Elementary School
Addition and Remodel

600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
LKV PROJECT #:
REVISIONS:

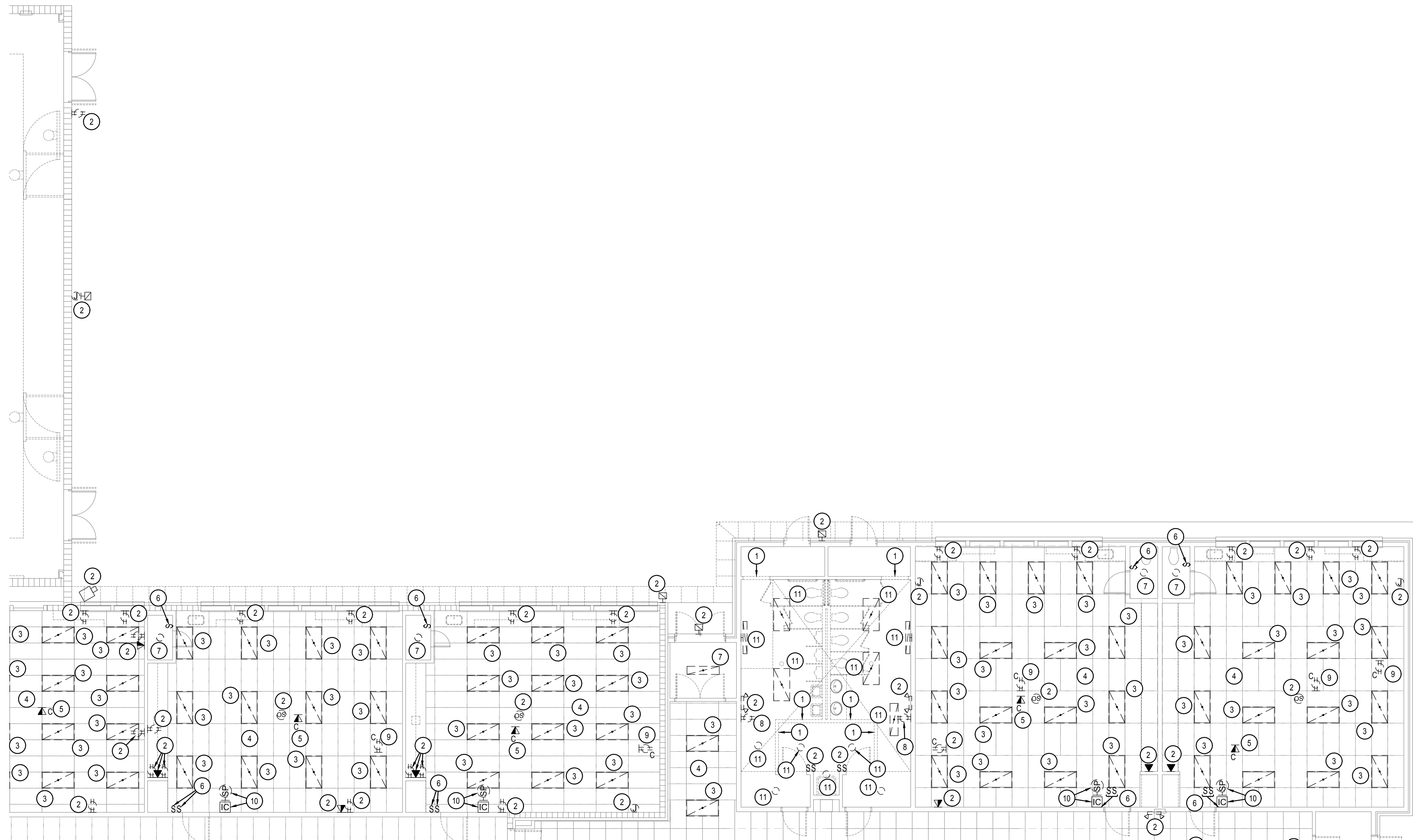
DRAWN BY: AN
CHECKED BY: KL

Design Development

DRAWING NO.

E-2.2

ELECTRICAL DEMOLITION
PLAN - AREA 'B'



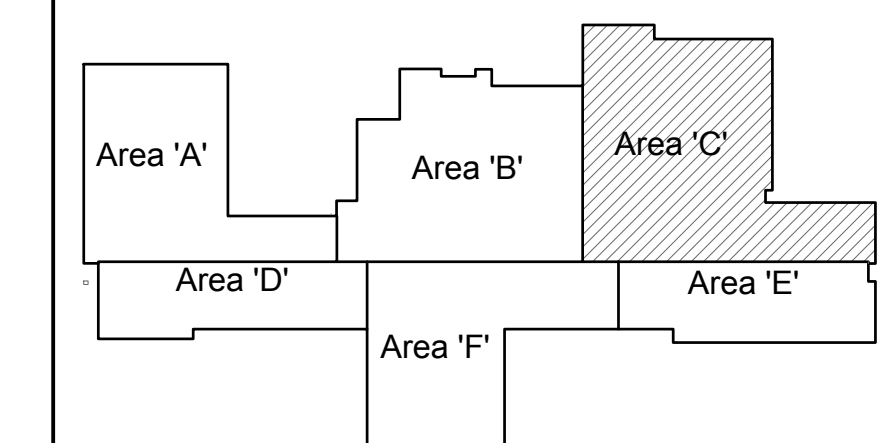
1 Electrical Demolition Plan - Area 'C'
Scale: 1/8" = 1'-0"

KEYED NOTES:

SYMBOL USED FOR NOTE CALLOUT.

1. EXISTING WALL TO BE REMOVED. REMOVE ALL EXISTING DEVICES AND JUNCTION BOXES. RE-ROUTE CONDUIT AND CONDUCTORS AS REQUIRED TO MAINTAIN POWER TO ALL DOWN STREAM DEVICE THAT ARE EXISTING TO REMAIN.
2. EXISTING DEVICE TO BE REMOVED. REMOVE ALL CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. MAINTAIN CONTINUITY TO ALL DOWNSTREAM DEVICES THAT ARE TO REMAIN.
3. EXISTING LIGHT FIXTURE TO BE DISCONNECTED AND REMOVED. MAINTAIN THE EXISTING SWITCHED LIGHTING CIRCUIT FOR EXTENSION TO THE NEW LIGHTING IN THIS ROOM. REMOVE CONDUIT, CONDUCTORS AND JUNCTION BOXES THAT ARE UNUSED AFTER NEW LIGHTING HAS BEEN INSTALLED AND CONNECTED. REFER TO THE LIGHTING PLAN FOR THE NEW LIGHTING LAYOUT. MAINTAIN CONTINUITY TO ALL DOWNSTREAM LIGHTING AND DEVICES THAT ARE TO REMAIN.
4. EXISTING SUSPENDED ACOUSTIC CEILING TILE (ACT) IN THIS ROOM TO BE REMOVED TO ACCOMMODATE ABOVE CEILING WORK. REMOVE ANY EXISTING CEILING MOUNTED DEVICES THAT ARE TO REMAIN. SAVE AND PROTECT DEVICES AND REINSTALL AFTER THE NEW CEILING IS INSTALLED. MAINTAIN ANY CONDUIT CONDUCTORS AND JUNCTION BOXES FOR DEVICES MOUNTED IN ACT TO REMAIN.
5. EXISTING WIRELESS ACCESS POINT (WAP). DISCONNECT AND REMOVE FOR CEILING DEMOLITION. RE-INSTALL AND RE-CONNECT AT APPROXIMATELY THE SAME LOCATION IN NEW CEILING.
6. EXISTING LIGHT SWITCH(ES) AND COVER PLATE TO BE REPLACED WITH NEW. MAINTAIN EXISTING CONDUIT, BOXES, AND CONDUCTORS FOR CONNECTION TO THE NEW SWITCH(ES).
7. EXISTING LIGHT FIXTURE TO BE REPLACED WITH NEW. REMOVE EXISTING LIGHT FIXTURE. MAINTAIN EXISTING CIRCUIT FOR CONNECTION TO NEW LIGHT FIXTURE.
8. DISCONNECT AND REMOVE EXISTING RECEPTACLE AND INSTALL NEW RECEPTACLE NOTED ON THE POWER PLAN AND RECONNECT AS REQUIRED. REFER TO THE POWER PLAN FOR ADDITIONAL INFORMATION.
9. EXISTING CEILING MOUNTED DEVICE. DISCONNECT AND REMOVE FOR CEILING DEMOLITION. RE-INSTALL AND RE-CONNECT AT APPROXIMATELY THE SAME LOCATION IN NEW CEILING.
10. EXISTING INTERCOM SYSTEM DEVICE TO BE REPLACED WITH NEW. REMOVE EXISTING DEVICE AND CABLING. MAINTAIN EXISTING CONDUIT AND BOXES FOR USE WITH NEW DEVICE. RE-SPECIAL SYSTEMS PLAN.
11. EXISTING LIGHT FIXTURE TO BE REMOVED. MAINTAIN AN UNSWITCHED LEG OF THE LIGHTING CIRCUIT SERVING THIS AREA FOR EXTENSION TO THE NEW LIGHTING AND CONTROLS. REMOVE ALL UNUSED CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. MAINTAIN CONTINUITY TO ALL DOWNSTREAM DEVICES THAT ARE TO REMAIN.

Key Plan



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#	Revisions Description Addendum #1	Date 05/11/2023
1		

Jefferson Elementary School
Addition and Remodel

600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
LKV PROJECT #:
REVISIONS:

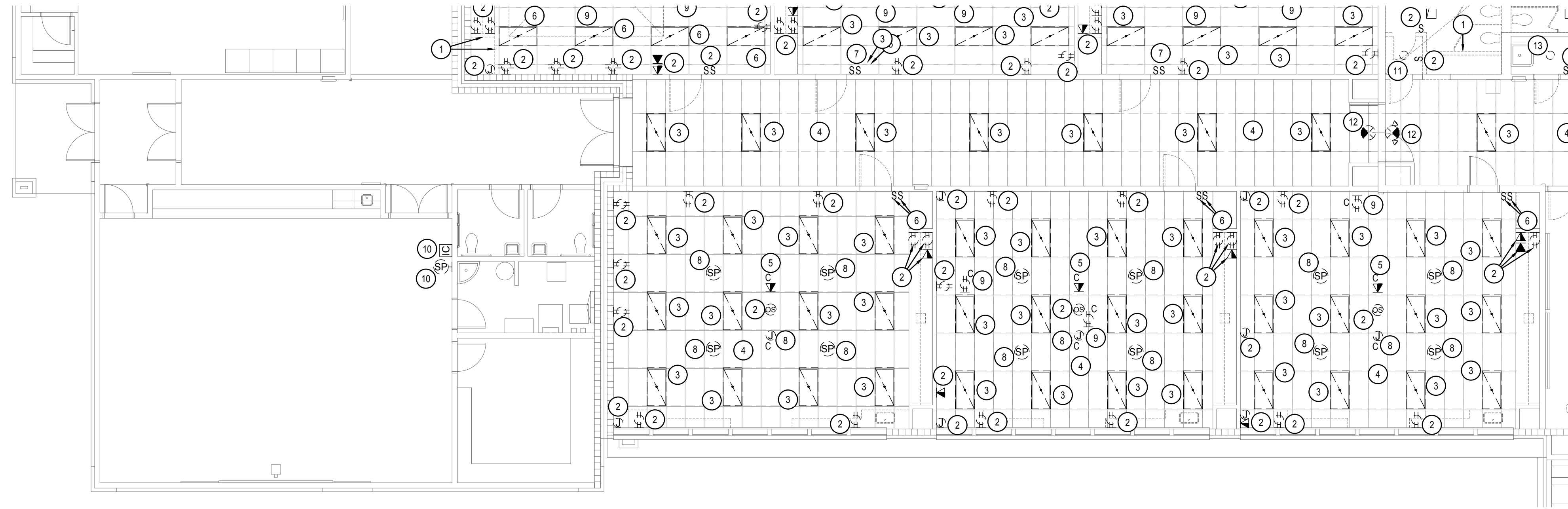
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CHECKED BY: KL

Design Development

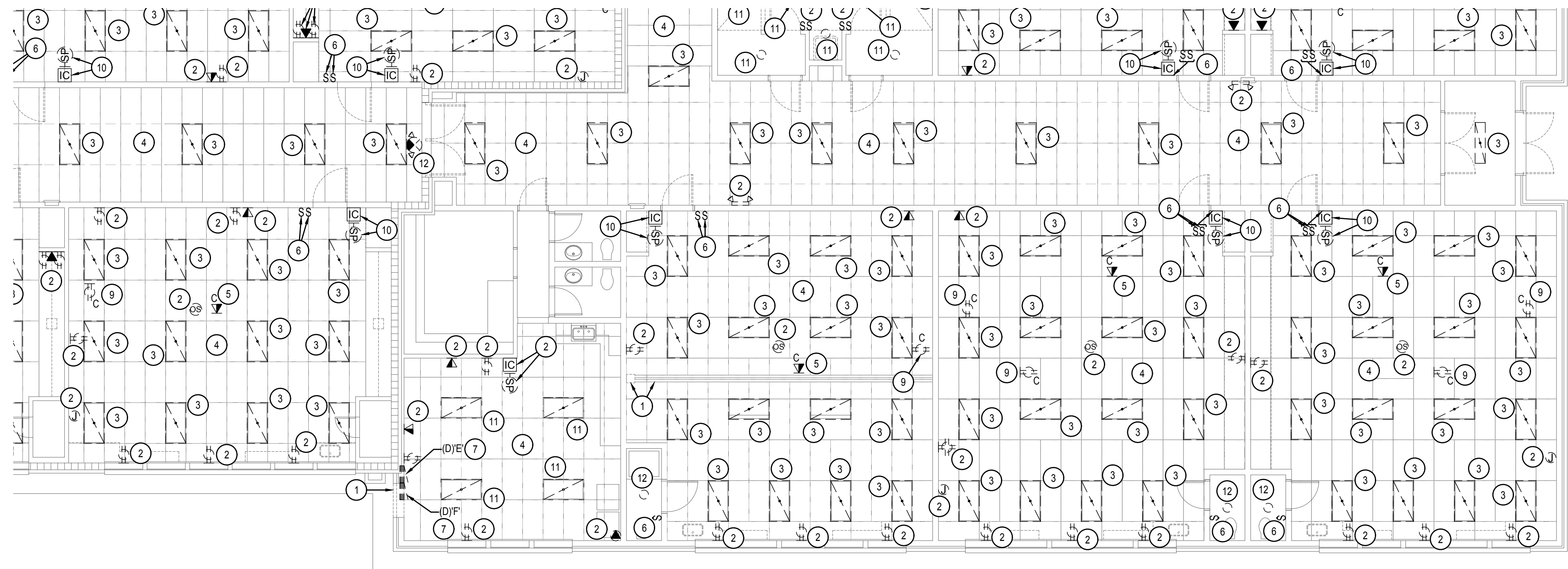
DRAWING NO.

E-2.3

ELECTRICAL DEMOLITION
PLAN - AREA 'C'



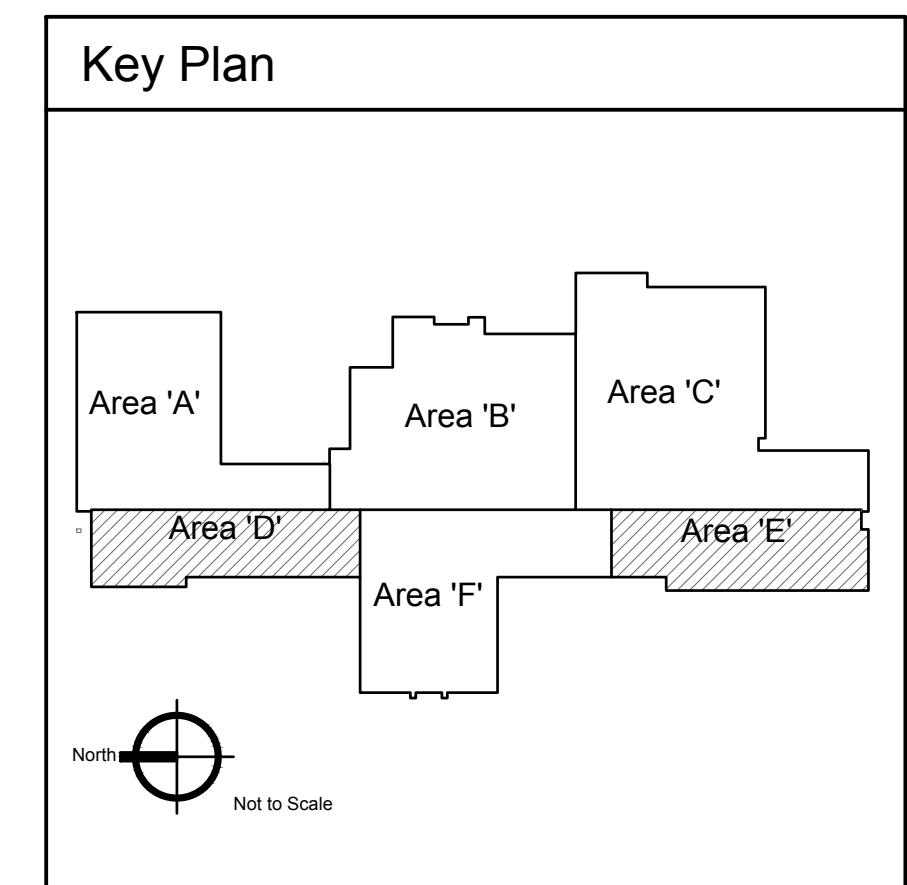
1 Electrical Demolition Plan - Area 'D'
Scale: 1/8" = 1'-0"



2 Electrical Demolition Plan - Area 'E'
Scale: 1/8" = 1'-0"

KEYED NOTES:

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. EXISTING WALL TO BE REMOVED. REMOVE ALL EXISTING DEVICES AND JUNCTION BOXES. RE-ROUTE CONDUIT AND CONDUCTORS AS REQUIRED TO MAINTAIN POWER TO ALL DOWN STREAM DEVICE THAT ARE EXISTING TO REMAIN.
- 2. EXISTING DEVICE TO BE REMOVED. REMOVE ALL CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. MAINTAIN CONTINUITY TO ALL DOWNSTREAM DEVICES THAT ARE TO REMAIN.
- 3. EXISTING LIGHT FIXTURE TO BE DISCONNECTED AND REMOVED. MAINTAIN THE EXISTING SWITCHED LIGHTING CIRCUIT FOR EXTENSION TO THE NEW LIGHTING IN THIS ROOM. REMOVE CONDUIT, CONDUCTORS AND JUNCTION BOXES THAT ARE UNUSED AFTER NEW LIGHTING HAS BEEN INSTALLED AND CONNECTED. REFER TO THE LIGHTING PLAN FOR THE NEW LIGHTING LAYOUT. MAINTAIN CONTINUITY TO ALL DOWNSTREAM LIGHTING AND DEVICES THAT ARE TO REMAIN.
- 4. EXISTING SUSPENDED ACOUSTIC CEILING TILE (ACT) IN THIS ROOM TO BE REMOVED TO ACCOMMODATE ABOVE CEILING WORK. REMOVE ANY EXISTING CEILING MOUNTED DEVICES THAT ARE TO REMAIN. SAVE AND PROTECT DEVICES AND REINSTALL AFTER THE NEW CEILING IS INSTALLED. MAINTAIN ANY CONDUIT CONDUCTORS AND JUNCTION BOXES FOR DEVICES MOUNTED IN ACT TO REMAIN.
- 5. EXISTING WIRELESS ACCESS POINT (WAP), DISCONNECT AND REMOVE FOR CEILING DEMOLITION. RE-INSTALL AND RE-CONNECT AT APPROXIMATELY THE SAME LOCATION IN NEW CEILING.
- 6. EXISTING LIGHT SWITCH(ES) AND COVER PLATE TO BE REPLACED WITH NEW. MAINTAIN EXISTING CONDUIT, BOXES, AND CONDUCTORS FOR CONNECTION TO THE NEW SWITCH(ES).
- 7. EXISTING PANELS 'E' AND 'F' TO BE DISCONNECTED AND REMOVED. MAINTAIN EXISTING UNDERGROUND CONDUIT AND FEEDERS FOR THE PANEL. WHERE POSSIBLE. PROVIDE NEW CONDUIT, BOXES, AND FEEDERS FROM THE PANEL TO DISTRIBUTION BOARD 'DPS' AS NECESSARY TO RECONNECT THE PANELS. PROVIDE CONDUIT, BOXES, AND CONDUCTORS AS REQUIRED TO EXTEND ALL EXISTING BRANCH CIRCUITS THAT ARE TO REMAIN FROM THE EXISTING PANEL LOCATIONS TO THE NEW PANEL LOCATIONS. REFER TO THE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION PRIOR TO BEGINNING WORK.
- 8. EXISTING CEILING MOUNTED CLASSROOM AMPLIFICATION DEVICE TO BE REMOVED. REMOVE ALL ASSOCIATED CONDUIT, BOXES, AND CABLING.
- 9. DISCONNECT AND REMOVE EXISTING CEILING MOUNTED DEVICE AS REQUIRED TO ACCOMMODATE CEILING DEMOLITION. RE-INSTALL AND RE-CONNECT AT APPROXIMATELY THE SAME LOCATION AFTER NEW CEILING IS INSTALLED.
- 10. EXISTING INTERCOM SYSTEM DEVICE TO BE REPLACED WITH NEW. REMOVE EXISTING DEVICE AND CABLING. MAINTAIN EXISTING CONDUIT AND BOXES FOR USE WITH NEW DEVICE. RE-SPECIAL SYSTEMS PLAN.
- 11. EXISTING LIGHT FIXTURE TO BE REMOVED. MAINTAIN AN UNSWITCHED LEG OF THE LIGHTING CIRCUIT SERVING THIS AREA FOR EXTENSION TO THE NEW LIGHTING AND CONTROLS. REMOVE ALL UNUSED CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. MAINTAIN CONTINUITY TO ALL DOWNSTREAM DEVICES THAT ARE TO REMAIN.
- 12. EXISTING LIGHT FIXTURE TO BE REPLACED WITH NEW. REMOVE EXISTING LIGHT FIXTURE. MAINTAIN EXISTING CIRCUIT FOR CONNECTION TO NEW LIGHT FIXTURE.



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Revisions	Date	Description
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	05/11/2023	Addendum #1

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600 N. Fillmore Street, Jerome, Idaho

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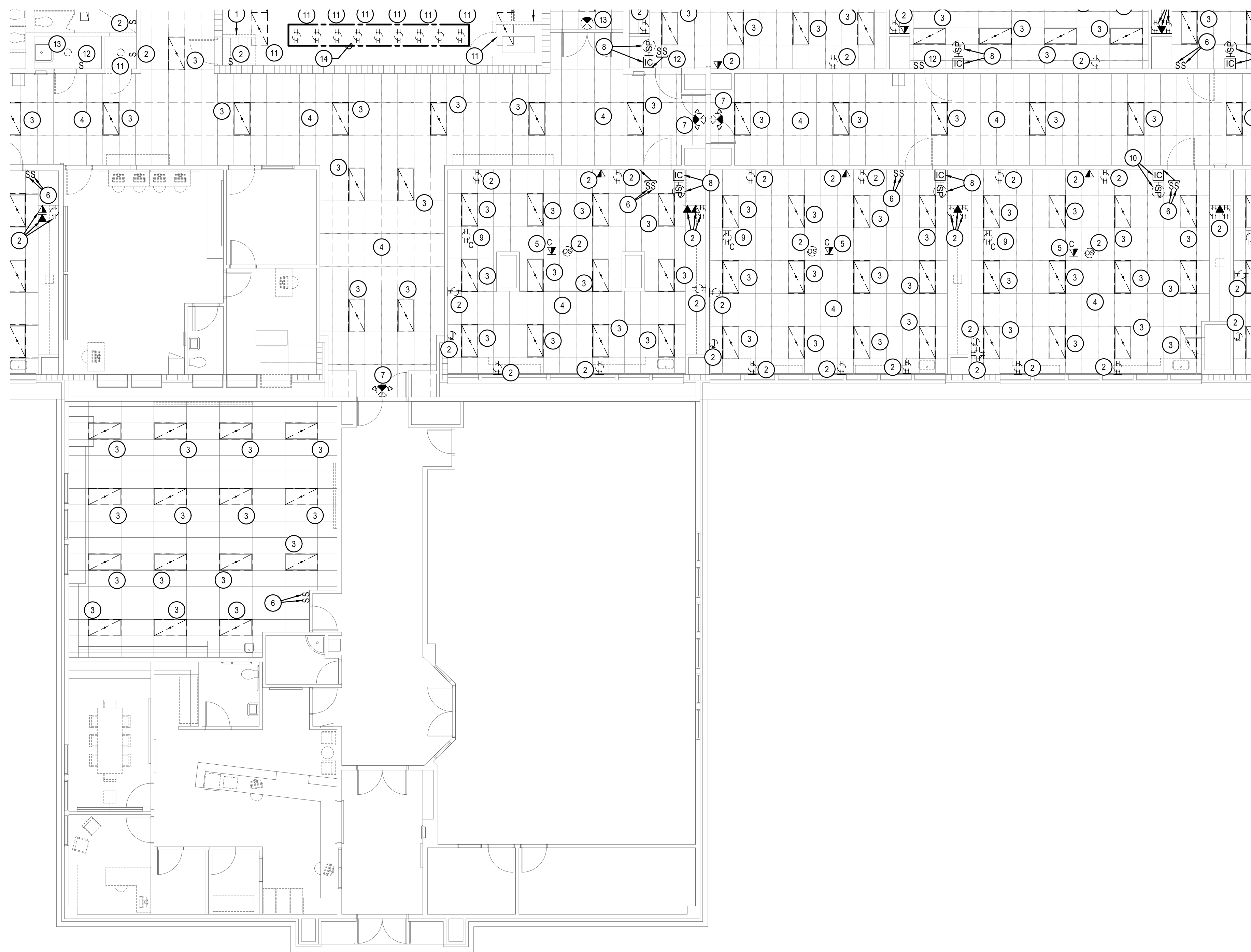
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Design Development

DRAWING NO.

E-2.4

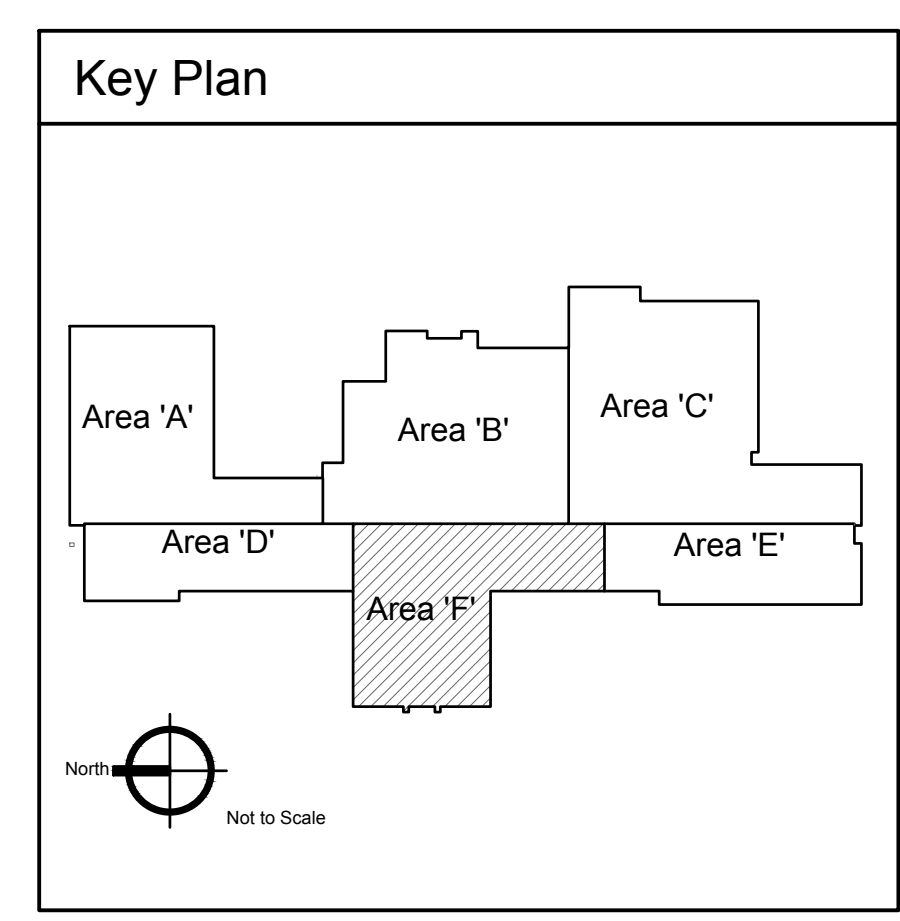
ELECTRICAL DEMOLITION
PLAN - AREA 'D' AND 'E'



KEYED NOTES:

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. EXISTING WALL TO BE REMOVED. REMOVE ALL EXISTING DEVICES AND JUNCTION BOXES. RE-ROUTE CONDUIT AND CONDUCTORS AS REQUIRED TO MAINTAIN POWER TO ALL DOWN STREAM DEVICES THAT ARE EXISTING TO REMAIN.
- 2. EXISTING DEVICE TO BE REMOVED. REMOVE ALL CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO SOURCE OR NEAREST UPSTREAM DEVICE THAT IS TO REMAIN. MAINTAIN CONTINUITY TO ALL DOWNSTREAM DEVICES THAT ARE TO REMAIN.
- 3. EXISTING LIGHT FIXTURE TO BE DISCONNECTED AND REMOVED. MAINTAIN THE EXISTING SWITCHED LIGHTING CIRCUIT FOR EXTENSION TO THE NEW LIGHTING IN THIS ROOM. REMOVE CONDUIT, CONDUCTORS AND JUNCTION BOXES THAT ARE UNUSED AFTER NEW LIGHTING HAS BEEN INSTALLED AND CONNECTED. REFER TO THE LIGHTING PLAN FOR THE NEW LIGHTING LAYOUT. MAINTAIN CONTINUITY TO ALL DOWNSTREAM LIGHTING AND DEVICES THAT ARE TO REMAIN.
- 4. EXISTING SUSPENDED ACOUSTIC CEILING TILE (ACT) IN THIS ROOM TO BE REMOVED TO ACCOMMODATE ABOVE CEILING WORK. REMOVE ANY EXISTING CEILING MOUNTED DEVICES THAT ARE TO REMAIN. SAVE AND PROTECT DEVICES AND REINSTALL AFTER THE NEW CEILING IS INSTALLED. MAINTAIN ANY CONDUIT CONDUCTORS AND JUNCTION BOXES FOR DEVICES MOUNTED IN ACT TO REMAIN.
- 5. EXISTING WIRELESS ACCESS POINT (WAP). DISCONNECT AND REMOVE FOR CEILING DEMOLITION. RE-INSTALL AND RE-CONNECT AT APPROXIMATELY THE SAME LOCATION IN NEW CEILING.
- 6. EXISTING LIGHT SWITCH(ES) AND COVER PLATE TO BE REPLACED WITH NEW. MAINTAIN EXISTING CONDUIT, BOXES, AND CONDUCTORS FOR CONNECTION TO THE NEW SWITCH(ES).
- 7. EXISTING LIGHT FIXTURE TO BE REPLACED WITH NEW. REMOVE EXISTING LIGHT FIXTURE. MAINTAIN EXISTING CIRCUIT FOR CONNECTION TO NEW LIGHT FIXTURE.
- 8. EXISTING INTERCOM SYSTEM DEVICE TO BE REPLACED WITH NEW. REMOVE EXISTING DEVICE AND CABLING. MAINTAIN EXISTING CONDUIT AND BOXES FOR USE WITH NEW DEVICE. RE-SPECIAL SYSTEMS PLAN.
- 9. EXISTING CEILING MOUNTED DEVICE. DISCONNECT AND REMOVE FOR CEILING DEMOLITION. RE-INSTALL AND RE-CONNECT AT APPROXIMATELY THE SAME LOCATION IN NEW CEILING.

1 Electrical Demolition Plan - Area 'F'
Scale: 1/8" = 1'-0"



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Revisions		Date
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DATE: February 24, 2023
LKV PROJECT #: -
REVISIONS:

DRAWN BY: AN
CHECKED BY: KL

Design Development

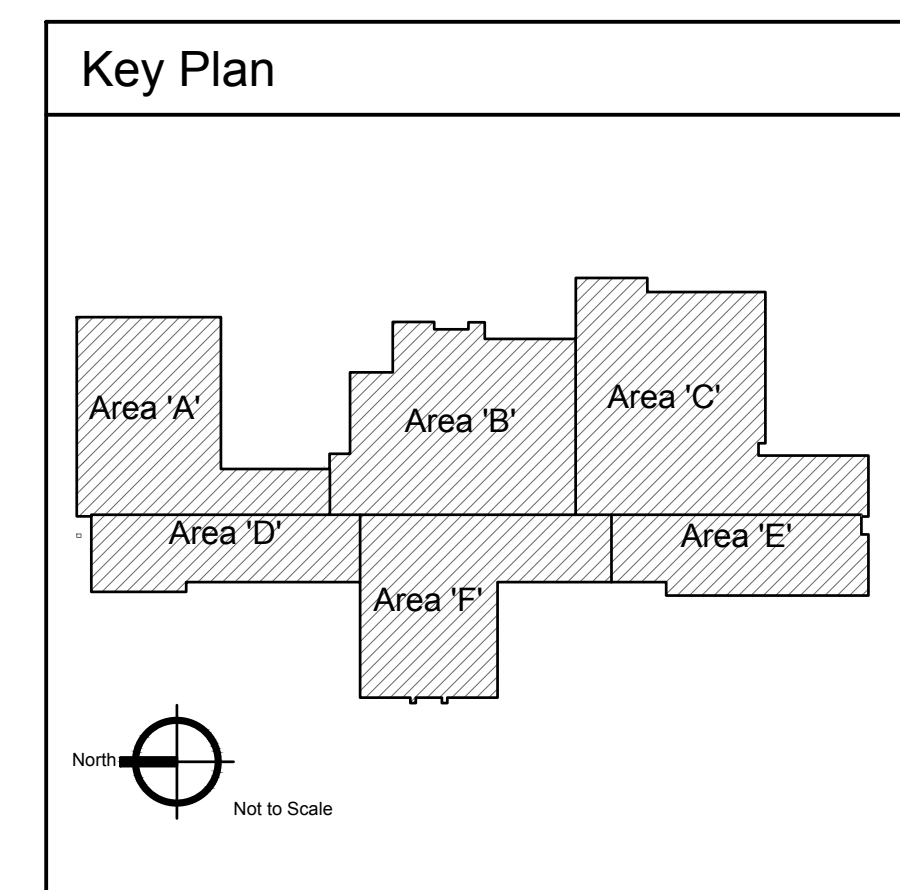
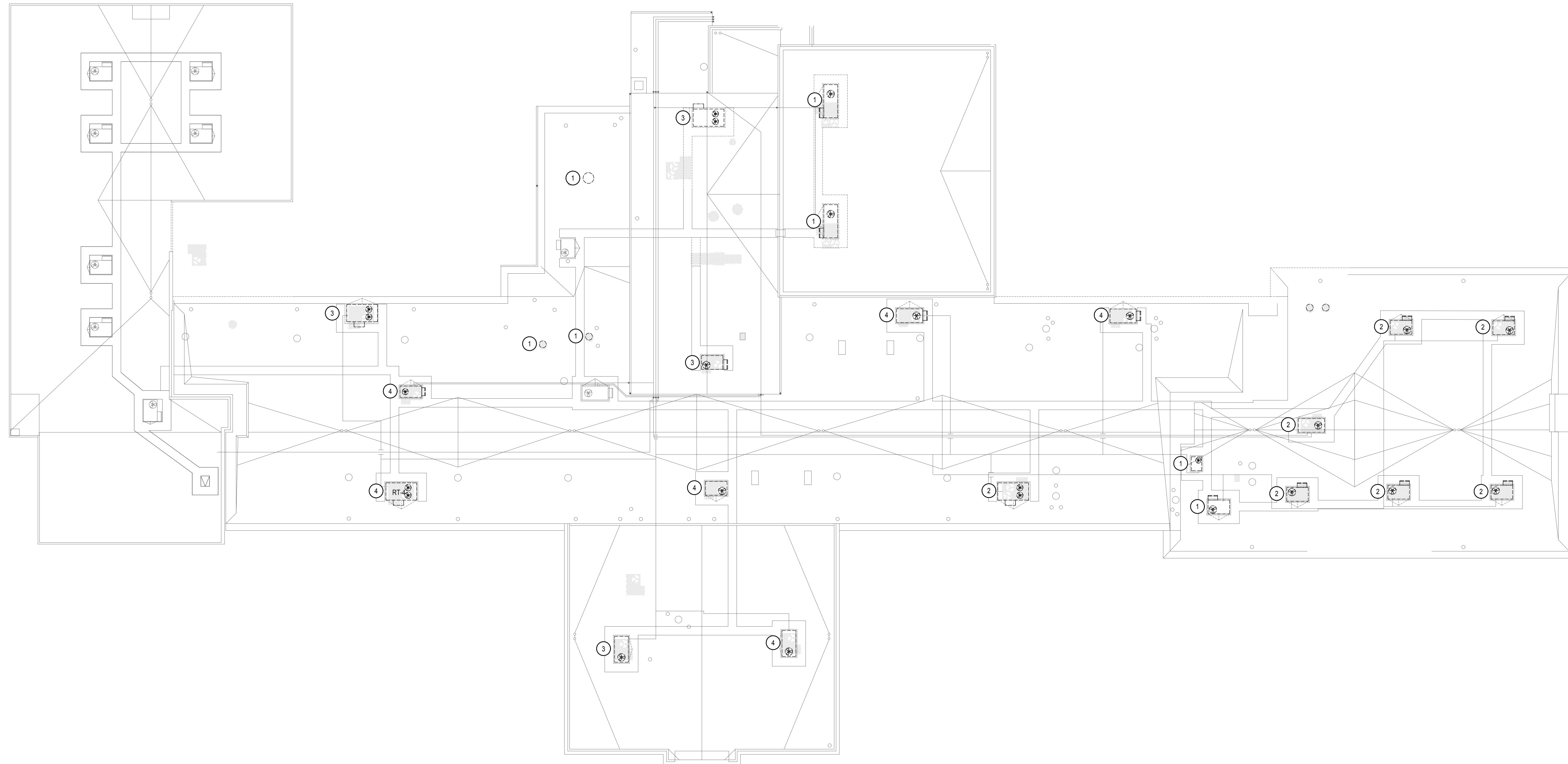
DRAWING NO.

E-2.5
ELECTRICAL DEMOLITION
PLAN - AREA 'F'

KEYED NOTES:

SYMBOL USED FOR NOTE CALLOUT.

1. EXISTING MECHANICAL UNIT TO BE REMOVED. EXISTING CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO SOURCE THAT IS TO REMAIN.
2. BID ALTERNATE #2. EXISTING MECHANICAL UNIT TO BE REMOVED. EXISTING CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO SOURCE THAT IS TO REMAIN.
3. EXISTING MECHANICAL UNIT TO BE REMOVED. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
4. BID ALTERNATE #2. EXISTING MECHANICAL UNIT TO BE REMOVED. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.



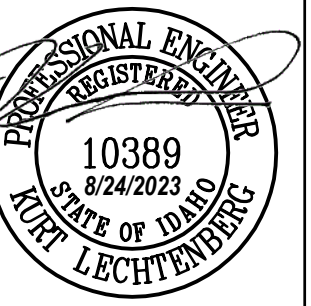
1 Overall Electrical Roof Demolition Plan
Scale: 1/16" = 1'-0"



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Revisions	Description	Date
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**Jefferson Elementary School
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600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
LKV PROJECT #: -
REVISIONS:

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CHECKED BY: KL

Design Development

DRAWING NO.

E-2.6

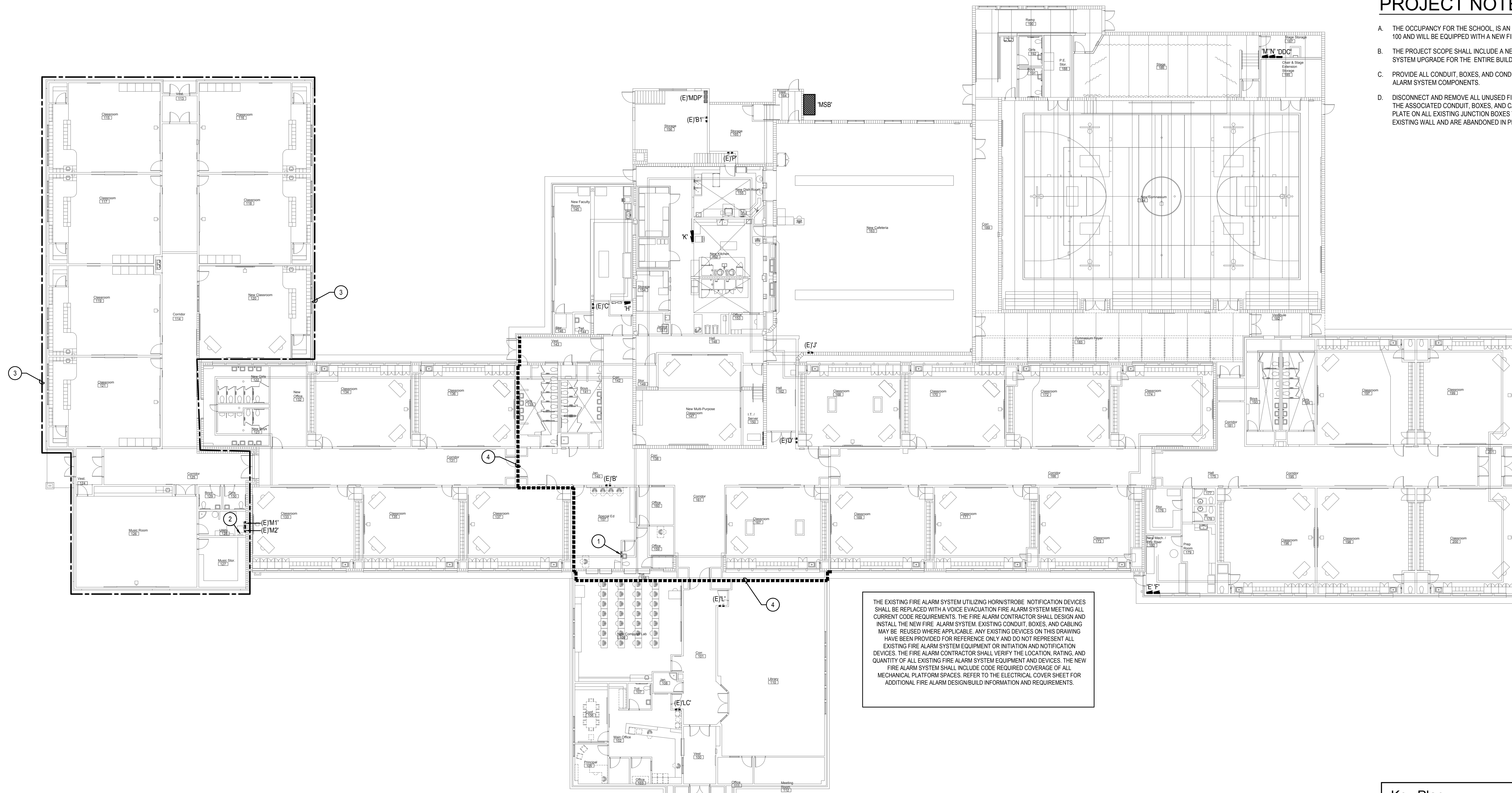
OVERALL ELECTRICAL
ROOF DEMOLITION PLAN

KEYED NOTES:

- ① SYMBOL USED FOR NOTE CALLOUT.
- 1. APPROXIMATE LOCATION OF THE EXISTING SILENT KNIGHT 5820XL FIRE ALARM PANEL SHOWN FOR REFERENCE.
- 2. APPROXIMATE LOCATION OF THE EXISTING SKE SERIES VOICE EVACUATION SYSTEM CONTROL SHOWN FOR REFERENCE.
- 3. BUILDING AREA WITH EXISTING VOICE EVACUATIONS NOTIFICATION.
- 4. EXISTING 2-HOUR FIRE WALL.

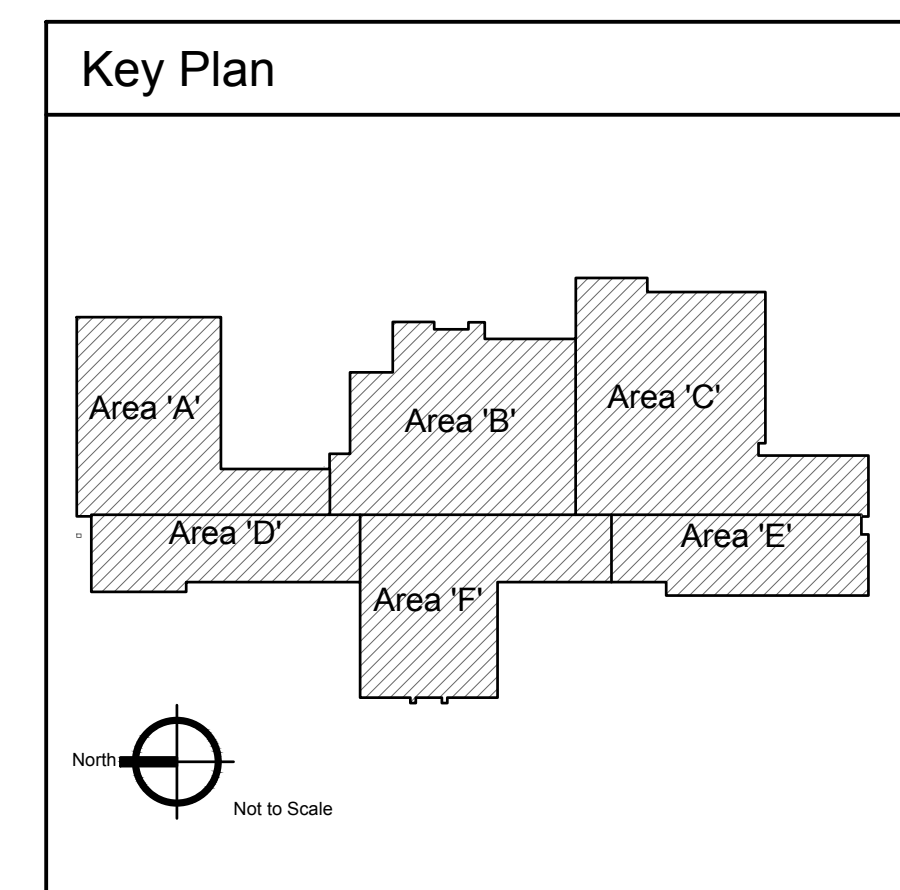
PROJECT NOTES:

- A. THE OCCUPANCY FOR THE SCHOOL IS AN 'E' OCCUPANCY THAT EXCEEDS 100 AND WILL BE EQUIPPED WITH A NEW FIRE SPRINKLER SYSTEM.
- B. THE PROJECT SCOPE SHALL INCLUDE A NEW DESIGN / BUILD FIRE ALARM SYSTEM UPGRADE FOR THE ENTIRE BUILDING.
- C. PROVIDE ALL CONDUIT, BOXES, AND CONDUCTORS REQUIRED FOR NEW FIRE ALARM SYSTEM COMPONENTS.
- D. DISCONNECT AND REMOVE ALL UNUSED FIRE ALARM SYSTEM DEVICES AND THE ASSOCIATED CONDUIT, BOXES, AND CABLING. PROVIDE A BLANK COVER PLATE ON ALL EXISTING JUNCTION BOXES THAT ARE RECESSED IN AN EXISTING WALL AND ARE ABANDONED IN PLACE.



THE EXISTING FIRE ALARM SYSTEM UTILIZING HORNSTROBE NOTIFICATION DEVICES SHALL BE REPLACED WITH A VOICE EVACUATION FIRE ALARM SYSTEM MEETING ALL CURRENT CODE REQUIREMENTS. THE FIRE ALARM CONTRACTOR SHALL DESIGN AND INSTALL THE NEW FIRE ALARM SYSTEM. EXISTING CONDUIT, BOXES, AND CABLING MAY BE REUSED WHERE APPLICABLE. ANY EXISTING DEVICES ON THIS DRAWING HAVE BEEN PROVIDED FOR REFERENCE ONLY AND DO NOT REPRESENT ALL EXISTING FIRE ALARM SYSTEM EQUIPMENT OR INITIATION AND NOTIFICATION DEVICES. THE FIRE ALARM CONTRACTOR SHALL VERIFY THE LOCATION, RATING, AND QUANTITY OF ALL EXISTING FIRE ALARM SYSTEM EQUIPMENT AND DEVICES. THE NEW FIRE ALARM SYSTEM SHALL INCLUDE CODE REQUIRED COVERAGE OF ALL MECHANICAL PLATFORM SPACES. REFER TO THE ELECTRICAL COVER SHEET FOR ADDITIONAL FIRE ALARM DESIGN/BUILD INFORMATION AND REQUIREMENTS.

Overall Fire Alarm Floor Plan
Scale: 1/16" = 1'-0"



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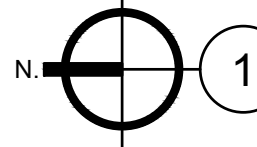
Design Development

DRAWING NO.

E-3.0

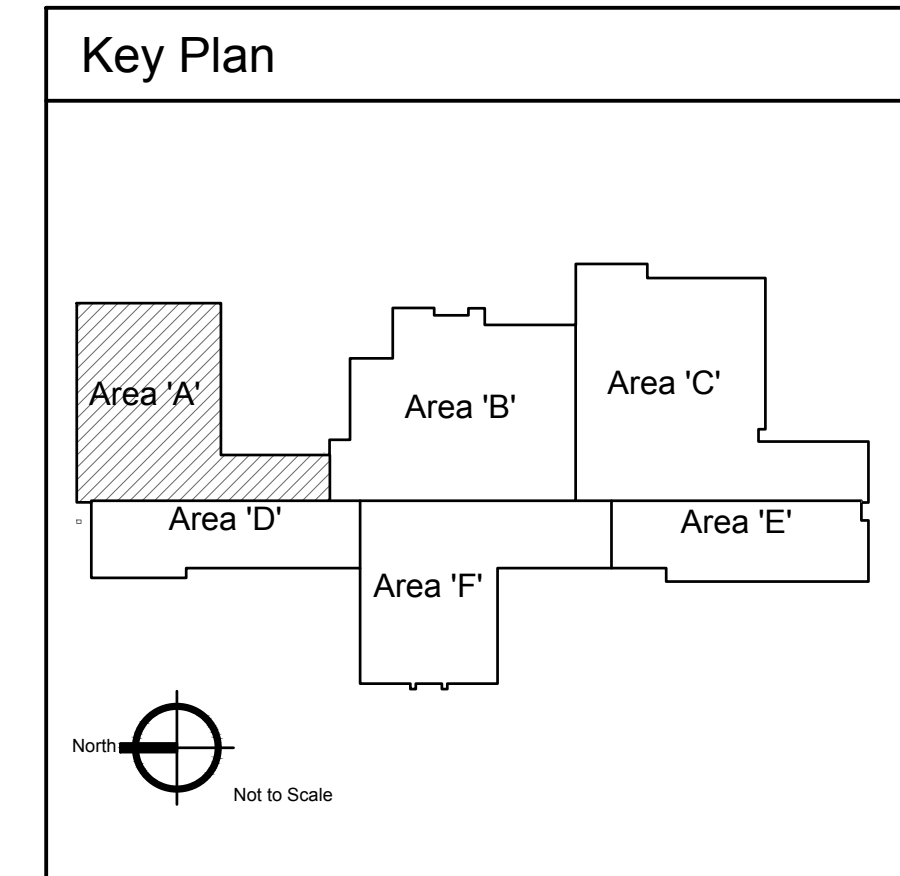
OVERALL FIRE ALARM
FLOOR PLAN




Lighting Plan - Area 'A'
 Scale: 1/8" = 1'-0"

KEYED NOTES:

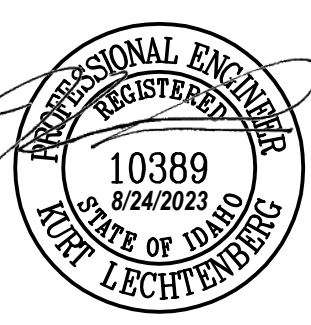
- 1. SYMBOL USED FOR NOTE CALLOUT.
- 2. EXTEND THE SWITCHED LIGHTING CIRCUITS SERVING THIS ROOM TO THE NEW LIGHTS AS INDICATED. EXISTING CONDUIT, BOXES, AND CONDUCTORS, AN WHIPS MAY BE REUSED WHERE POSSIBLE. LIGHT FIXTURES SHALL BE CONTROLLED BY THE LIGHT SWITCH WITH THE SAME LIGHTING ZONE SUBSCRIPT IDENTIFICATION. EXTEND AN UNSWITCHED LEG OF THE LIGHTING CIRCUIT TO THE EMERGENCY BATTERIES WHERE INDICATED.
- 3. PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSOR FOR AUTOMATED ON/OFF CONTROL OF LIGHTING IN THIS ROOM. CONNECT SUCH THAT THE OCCUPANCY SENSOR CONTROL IS AHEAD OF THE MANUAL LIGHT SWITCH CONTROLS AND SO THAT DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM WILL ACTIVATE LIGHTING CIRCUIT(S) SERVING THE ROOM. OCCUPANCY SENSOR SHALL TURN OFF THE LIGHTING OFF AFTER 20 MINUTES OF NO OCCUPANCY DETECTION. LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATION TO ENSURE MOTION IS DETECTED WITHIN 2FT OF ENTERING ROOM. PROVIDE AND INSTALL ALL POWER PACKS AND RELAYS AS REQUIRED. RE: OCCUPANCY SENSORS DETAIL.
- 4. REPLACE EXISTING LIGHT SWITCHES AND THE ASSOCIATED COVER PLATE WITH NEW. SWITCHES SHALL CONTROL THE LIGHT FIXTURES IN THIS ROOM WITH THE SAME LIGHTING ZONE SUBSCRIPT IDENTIFICATION.
- 5. DAYLIGHT ZONE PERIMETER PER 2018 IECC. SHOWN FOR REFERENCE.
- 6. DIGITAL DUAL TECHNOLOGY OCCUPANCY SENSOR COMPATIBLE WITH THE ROOMS DIGITAL LIGHTING SYSTEM ROOM CONTROLLER. CONNECT SUCH THAT DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM WILL ACTIVATE ALL LIGHTING IN THE ROOM AND TURN OFF THE LIGHTING AFTER 20 MINUTES OF NO OCCUPANCY DETECTION. LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATION TO ENSURE MOTION IS DETECTED WITHIN 2FT OF ENTERING ROOM. PROVIDE AND INSTALL ALL POWER PACKS AND RELAYS AS REQUIRED.
- 7. 3-BUTTON, DIGITAL SWITCH(ES), WITH RAISE /LOWER AND ON / OFF CONTROL. SWITCHES ARE TO BE COMPATIBLE WITH LIGHTING ROOM CONTROLLER SERVING THIS SPACE. PROVIDE SEPARATE SWITCH FOR EACH CONTROL ZONE BY SUBSCRIPTS INDICATED. RE: CLASSROOM LIGHTING CONTROL DETAIL.
- 8. LIGHTING IN THIS ROOM TO BE CONTROLLED USING DIGITAL ROOM CONTROLLER. ASSOCIATED DIGITAL DIMMING SWITCHES AND DIGITAL OCCUPANCY SENSORS. OCCUPANCY SENSOR(S) TO TURN LIGHTING ROOM TO 50% AUTOMATICALLY AFTER OCCUPANCY SENSOR TIME OUT. ALL FIXTURES ARE TO BE OFF. RE: CLASSROOM LIGHTING CONTROL DETAIL.
- 9. LIGHTING CONTROL ZONE SUBSCRIPT. (TYPICAL)
- 10. RELOCATED EXTERIOR LIGHT. PROVIDE CONDUIT, BOXES, AND CONDUCTORS AS REQUIRED TO EXTEND THE EXISTING LIGHTING CIRCUIT TO THE NEW FIXTURE LOCATION.



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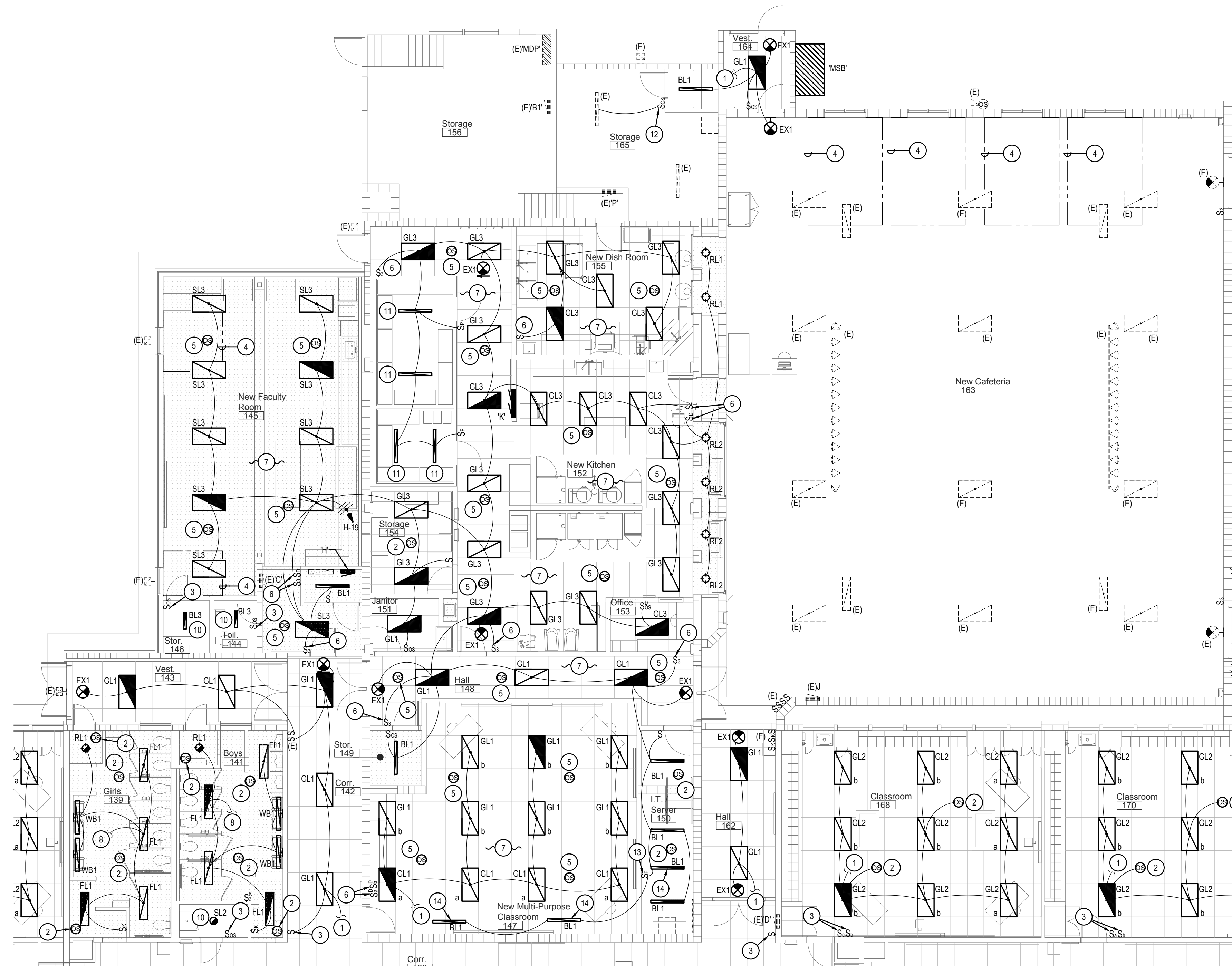
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E-4.1
 LIGHTING PLAN - AREA 'A'

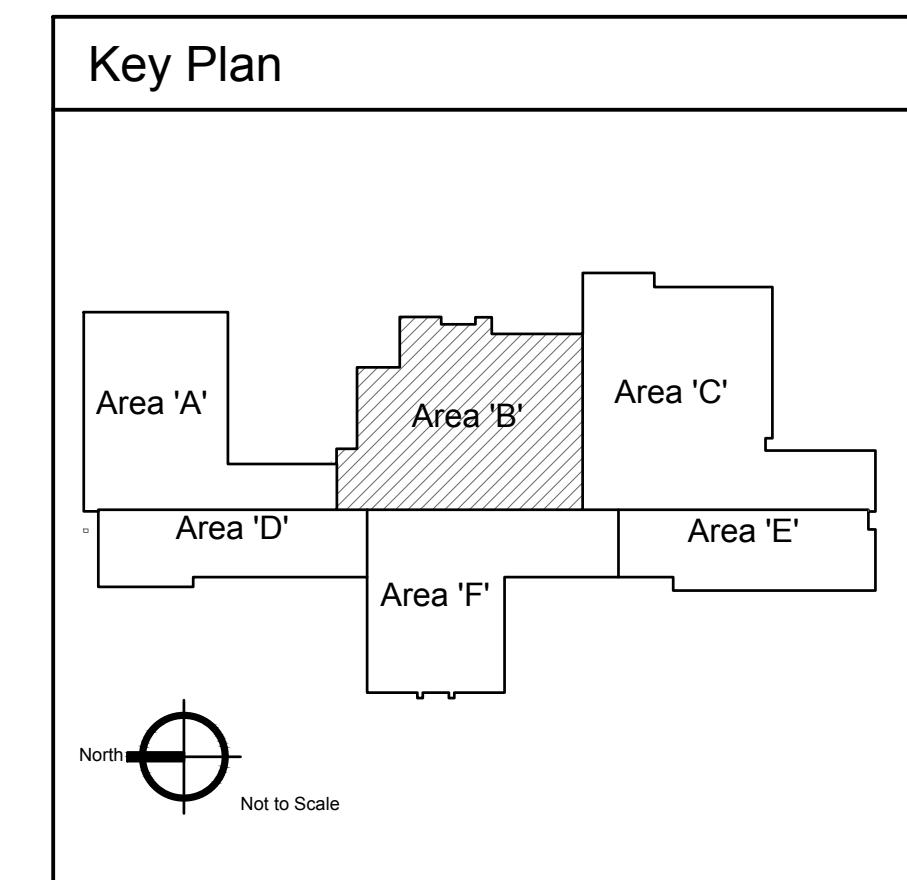
KEYED NOTES:

SYMBOL USED FOR NOTE CALLOUT.

- EXTEND THE SWITCHED LIGHTING CIRCUITS SERVING THIS ROOM TO THE NEW LIGHTS AS INDICATED. EXISTING CONDUIT, BOXES, AND CONDUCTORS, AN WHIPS MAY BE REUSED WHERE POSSIBLE. LIGHT FIXTURES SHALL BE CONTROLLED BY THE LIGHT SWITCH WITH THE SAME LIGHTING ZONE SUBSCRIPT IDENTIFICATION. EXTEND AN UNSWITCHED LEG OF THE LIGHTING CIRCUIT TO THE EMERGENCY BATTERIES WHERE INDICATED.
- PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSOR FOR AUTOMATED ON/OFF CONTROL OF LIGHTING IN THIS ROOM. CONNECT SUCH THAT THE OCCUPANCY SENSOR CONTROL IS AHEAD OF THE MANUAL LIGHT SWITCH CONTROLS AND SO THAT DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM WILL ACTIVATE LIGHTING CIRCUIT(S) SERVING THE ROOM. OCCUPANCY SENSOR SHALL TURN OFF THE LIGHTING OFF AFTER 20 MINUTES OF NO OCCUPANCY DETECTION. LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATION TO ENSURE MOTION IS DETECTED WITHIN 2FT OF ENTERING ROOM. PROVIDE AND INSTALL ALL POWER PACKS AND RELAYS AS REQUIRED. RE: OCCUPANCY SENSORS DETAIL.
- REPLACE EXISTING LIGHT SWITCH(ES) AND THE ASSOCIATED COVER PLATE WITH NEW SWITCH(ES) SHALL CONTROL THE LIGHT FIXTURES IN THIS ROOM WITH THE SAME LIGHTING ZONE SUBSCRIPT IDENTIFICATION WHERE INDICATED.
- DAYLIGHT ZONE PERIMETER PER 2018 IECC. SHOWN FOR REFERENCE.
- DIGITAL DUAL TECHNOLOGY OCCUPANCY SENSOR COMPATIBLE WITH THE ROOMS DIGITAL LIGHTING SYSTEM ROOM CONTROLLER. CONNECT SUCH THAT DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM WILL ACTIVATE ALL LIGHTING IN THE ROOM AND TURN OFF THE LIGHTING AFTER 20 MINUTES OF NO OCCUPANCY DETECTION. LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATION TO ENSURE MOTION IS DETECTED WITHIN 2FT OF ENTERING ROOM. PROVIDE AND INSTALL ALL POWER PACKS AND RELAYS AS REQUIRED.
- 3-BUTTON, DIGITAL SWITCH(ES), WITH RAISE / LOWER AND ON / OFF CONTROL. SWITCHES ARE TO BE COMPATIBLE WITH LIGHTING ROOM CONTROLLER SERVING THIS SPACE. PROVIDE SEPARATE SWITCH FOR EACH CONTROL ZONE BY SUBSCRIPTS INDICATED. RE: CLASSROOM LIGHTING CONTROL DETAIL.
- LIGHTING IN THIS ROOM TO BE CONTROLLED USING DIGITAL ROOM CONTROLLER. ASSOCIATED DIGITAL DIMMING SWITCHES AND DIGITAL OCCUPANCY SENSORS OCCUPANCY SENSOR(S) TO TURN LIGHTING ROOM TO 50% AUTOMATICALLY. AFTER OCCUPANCY SENSOR TIME OUT, ALL FIXTURES ARE TO BE OFF. RE: CLASSROOM LIGHTING CONTROL DETAIL.
- INTERCEPT AN UNSWITCHED LEG OF THE LIGHTING CIRCUIT SERVING THIS AREA AND EXTEND TO THE NEW LIGHTING, CONTROLS, AND EMERGENCY LIGHTING AS INDICATED.
- LIGHTING CONTROL ZONE SUBSCRIPT. (TYPICAL)
- REPLACE EXISTING LIGHT FIXTURE WITH NEW. CONNECT NEW FIXTURE TO THE EXISTING LIGHTING CIRCUIT AND CONTROLS. EXTEND AN UNSWITCHED LEG OF THE LIGHTING CIRCUIT TO THE INTEGRAL EMERGENCY BATTERY WHERE INDICATED.
- COOLER/FREEZER LIGHTS PROVIDED WITH COOLER/FREEZER AND INSTALLED BY THE ELECTRICAL CONTRACTOR. INSTALL ALL WIRING, CONDUITS AND ELECTRICAL EQUIPMENT REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER AND EQUIPMENT PRIOR TO BEGINNING WORK.
- NEW SWITCH FOR CONTROL OF STORAGE ROOM LIGHTING. PROVIDE CONDUIT, BOXES, AND CONDUCTORS AS REQUIRED TO CONNECT THE SWITCH TO THE EXISTING LIGHT FIXTURES.
- PILOT LIGHT SWITCH FOR CONTROL OF CRAWL SPACE LIGHT FIXTURE. LABEL SWITCH "CRAWL SPACE LTS". LOCATE SWITCH NEAR THE CRAWL SPACE ACCESS PANEL.
- LIGHT FIXTURE LOCATED ON THE CEILING OF THE CRAWL SPACE. COORDINATE EXACT LOCATION FIELD CONDITIONS.



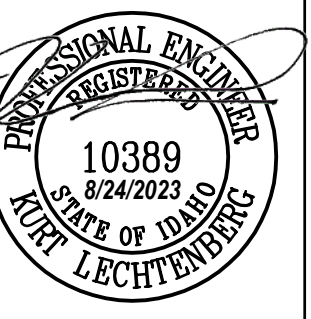
1 Lighting Plan - Area 'B'
Scale: 1/8" = 1'-0"



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Revisions	Date
Description Addendum #1	05/11/2023

Jefferson Elementary School
Addition and Remodel

600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
LKV PROJECT #: -
REVISIONS:

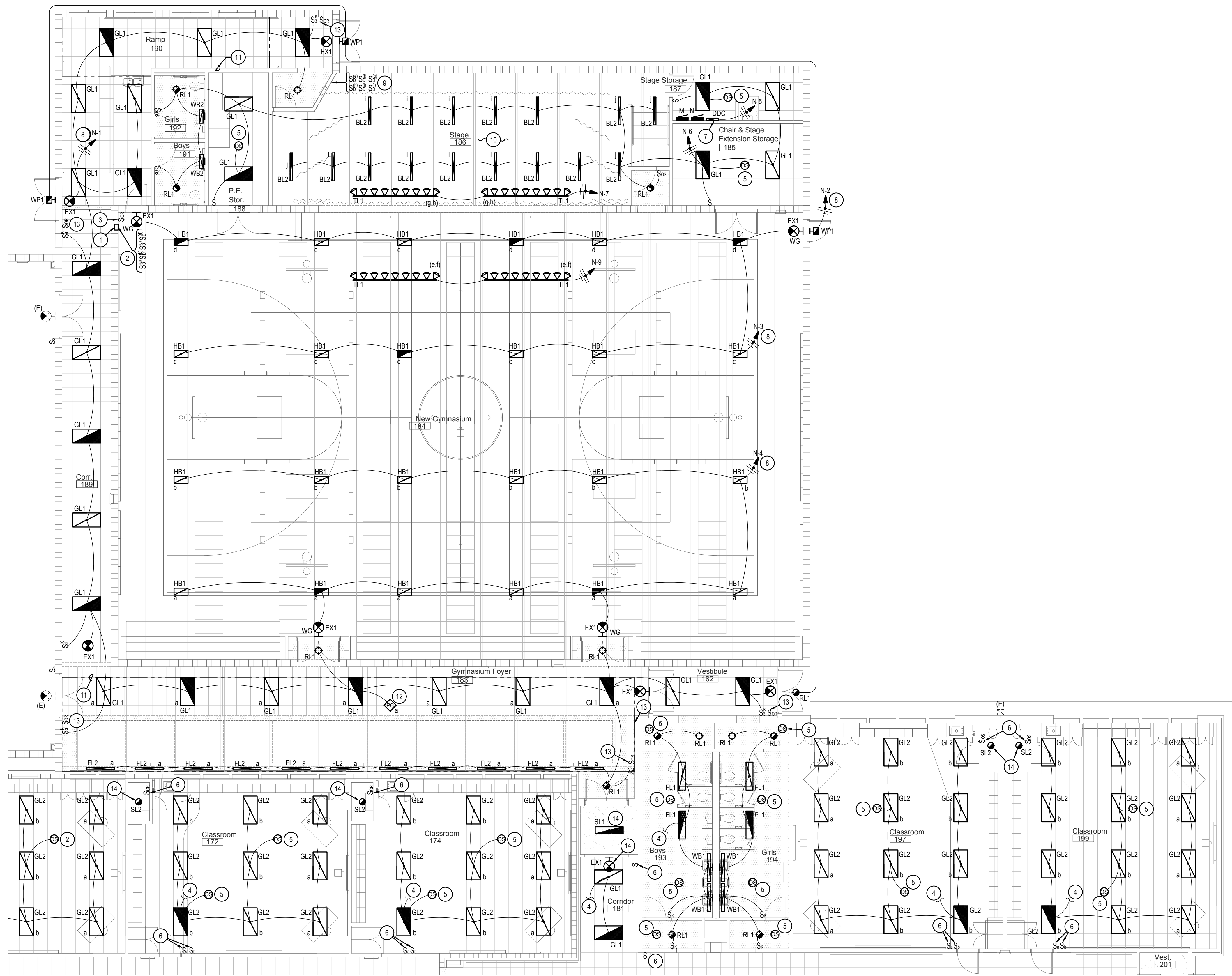
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Design Development

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E-4.2

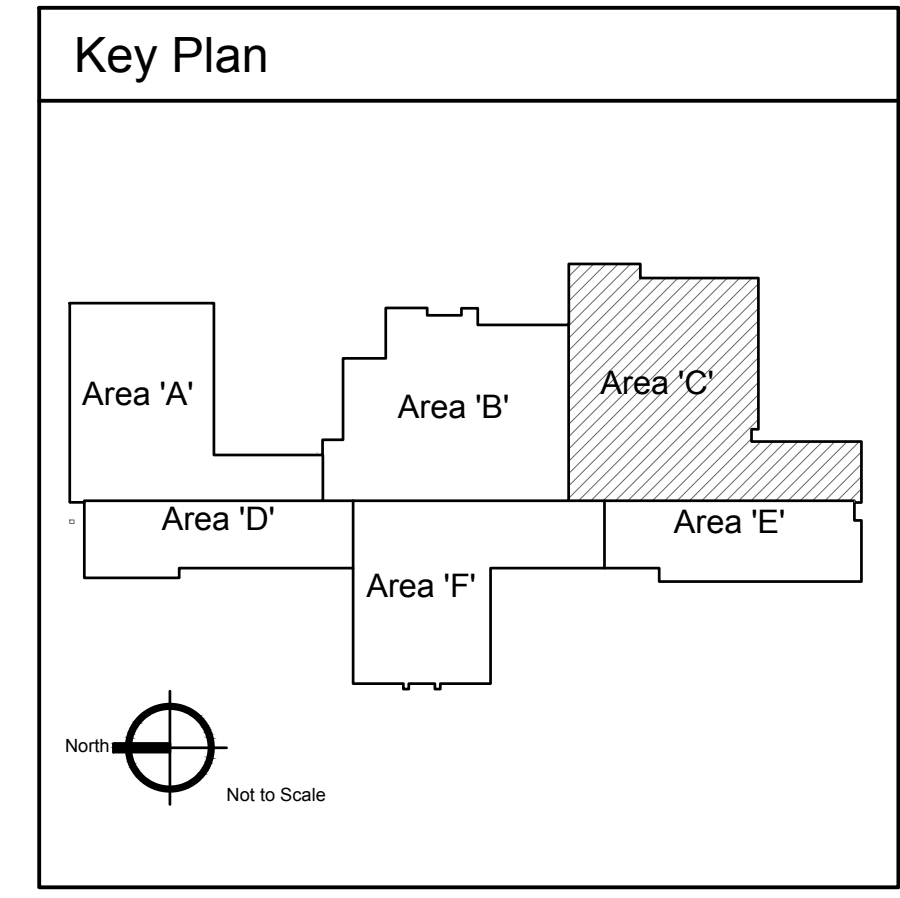
LIGHTING PLAN - AREA 'B'




Lighting Plan - Area 'C'
Scale: 1/8" = 1'-0"


KEYED NOTES:

1. DIGITAL, 0-10V DIMMING LIGHTING SWITCHES FOR THE GYMNASIUM LIGHTING TO BE LOCATED IN A FLUSH MOUNTED ENCLOSURE (HOFFMAN 'ASE' SERIES OR EQUAL) WITH LOCKABLE HINGED COVER (HOFFMAN 'AFD' SERIES WITH AN 'ACLFDF' LOCK KIT OR EQUAL). SIZE ENCLOSURE AS REQUIRED TO ACCOMMODATE ALL LIGHT SWITCHES INDICATED. THE CENTER OF THIS BOX IS TO BE MOUNTED 48" AFF. SWITCHES SHALL BE COMPATIBLE WITH THE ASSOCIATED LIGHT FIXTURES AND PROVIDE RAISE/LOWER AS WELL AS ON/OFF FUNCTIONS. PROVIDE ALL REQUIRED CABLING. PROVIDE JUNCTION BOXES IN THE ENCLOSURE FOR THE SWITCHES. ALL CONDUCTORS AND CABLING WITHIN ENCLOSURE ARE TO BE CONCEALED IN CONDUIT SO THEY ARE NOT EXPOSED TO THE USER. PROVIDE (2) 3/4" SPARE CONDUITS FROM ENCLOSURE TO THE BUILDING STRUCTURE. LOCK SHALL BE KEYPED TO MATCH THE SCHOOL MASTER KEY SYSTEM OR AS DIRECTED BY OWNER. RE: CAFETERIA LIGHT SWITCH ENCLOSURE DETAIL.
2. 3-BUTTON DIGITAL SWITCHES WITH RAISE/LOWER AND ON/OFF CONTROL. SWITCHES ARE TO BE COMPATIBLE WITH LIGHTING ROOM CONTROLLER IN THIS SPACE. PROVIDE SEPARATE SWITCH EACH CONTROL ZONE BY SUBSCRIPT INDICATED. RE: CLASSROOM LIGHTING CONTROL DETAIL.
3. PROVIDE MOMENTARY LOW-VOLTAGE OVERRIDE SWITCH WITH CABLING BACK TO LIGHTING CONTROL PANEL AS REQUIRED. SWITCH SHALL BE LABELED 'OVERRIDE' AND PROVIDE 2 HOURS OF OPERATION FOR THE LIGHTING DURING NON-BUSINESS HOURS.
4. EXTEND THE SWITCHED LIGHTING CIRCUITS SERVING THIS ROOM TO THE NEW LIGHTS AS INDICATED. EXISTING CONDUIT, BOXES, AND CONDUCTORS, AN WHIPS MAY BE REUSED. POSSIBLE LIGHT FIXTURES SHALL BE CONTROLLED BY THE LIGHT SWITCH WITH THE SAME LIGHTING ZONE. SUBSCRIPT IDENTIFICATION. EXTEND AN UNSWITCHED LEG OF THE LIGHTING CIRCUIT TO THE EMERGENCY BATTERIES WHERE INDICATED.
5. PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSOR FOR AUTOMATED ON/OFF CONTROL OF LIGHTING IN THIS ROOM. CONNECT SUCH THAT THE OCCUPANCY SENSOR CONTROL IS AHEAD OF THE MANUAL LIGHT SWITCH CONTROLS AND SO THAT DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM WILL ACTIVATE LIGHTING CIRCUIT(S) SERVING THE ROOM. OCCUPANCY SENSOR SHALL TURN OFF THE LIGHTING OFF AFTER 20 MINUTES OF NO OCCUPANCY DETECTION. LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATION TO ENSURE MOTION IS DETECTED WITHIN 2 FT OF ENTERING ROOM. PROVIDE AND INSTALL ALL POWER PACKS AND RELAYS AS REQUIRED. RE: OCCUPANCY SENSORS DETAIL.
6. REPLACE EXISTING LIGHT SWITCH(ES) AND THE ASSOCIATED COVER PLATE WITH NEW SWITCH(ES) SHALL CONTROL THE LIGHT FIXTURES IN THIS ROOM WITH THE SAME LIGHTING ZONE SUBSCRIPT IDENTIFICATION.
7. BUILDING MANAGEMENT SYSTEM (DDC) CONTACTOR / RELAY PANEL PROVIDED AND PROGRAMMED BY THE DDC CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH THE DDC CONTRACTOR PRIOR TO ROUGH-IN. RE LIGHTING CONTROL ZONE SCHEDULE.
8. ROUTE CIRCUIT THROUGH THE BUILDING MANAGEMENT SYSTEM (DDC) TIME OF DAY BASED CONTROL SYSTEM CONTACTORS / RELAY PANEL. COORDINATE WITH THE DDC CONTRACTOR. RE LIGHTING CONTROL ZONE SCHEDULE.
9. DIGITAL WALL SWITCH(ES) WITH RAISE / LOWER AND ON / OFF CONTROL. SWITCHES ARE TO BE COMPATIBLE WITH THE ROOM LIGHTING CONTROL SYSTEM. PROVIDE ONE SWITCH FOR EACH CONTROL ZONE INDICATED. 4-BUTTON CONFIGURATION MAXIMUM PER SWITCH. CONTROL SYSTEM. PROVIDE ONE SWITCH FOR EACH CONTROL ZONE INDICATED.
10. LIGHTING IN THIS ROOM TO BE CONTROLLED USING DIGITAL ROOM CONTROLLER AND ASSOCIATED DIGITAL DIMMING SWITCHES COMPATIBLE WITH LIGHT FIXTURES. A SINGLE CONTROLLER MAY BE UTILIZED FOR MULTIPLE ZONES AS LONG AS EACH ZONE CAN BE CONTROLLED INDEPENDENTLY. PROVIDE POWER PACKS, RELAYS, CABLING AND PROGRAMMING AS REQUIRED FOR A COMPLETE SYSTEM. TERMINATE AN TEST ALL CABLING.
11. DAYLIGHT ZONE PERIMETER PER 2018 IECC SHOWN FOR REFERENCE.
12. PROVIDE PHOTOCELL COMPATIBLE WITH LIGHTING FIXTURES AND LIGHTING CONTROL SYSTEM SERVING THIS AREA. CONNECT SUCH THAT PHOTOCELL CONTROLS ZONE SPECIFIED BY SUBSCRIPT. LOCATE SENSOR PER MANUFACTURER'S RECOMMENDATION.
13. MOMENTARY LOW-VOLTAGE LIGHTING CONTROL OVER-RIDE SWITCH. SWITCH AND CABLING FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOX WITH A SINGLE-GANG MUD-RING AT 48" AFF AND PROVIDE 3/4" CONDUIT FROM THE JUNCTION BOX TO THE NEAREST ACCESSIBLE CEILING SPACE. VERIFY THE SWITCH LOCATION AND THE BOX AND CONDUIT REQUIREMENTS WITH THE DDC CONTRACTOR PRIOR TO ROUGH-IN. LABEL SWITCH 'LIGHTING OVERRIDE'.
14. REPLACE EXISTING LIGHT FIXTURE WITH NEW. CONNECT NEW FIXTURE TO THE EXISTING LIGHTING CIRCUIT AND CONTROLS. EXTEND AN UNSWITCHED LEG OF THE LIGHTING CIRCUIT TO THE INTEGRAL EMERGENCY BATTERY WHERE INDICATED.

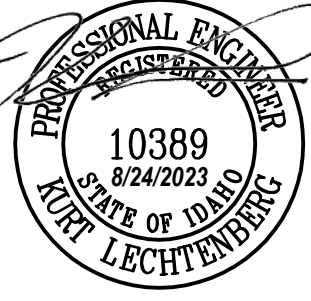




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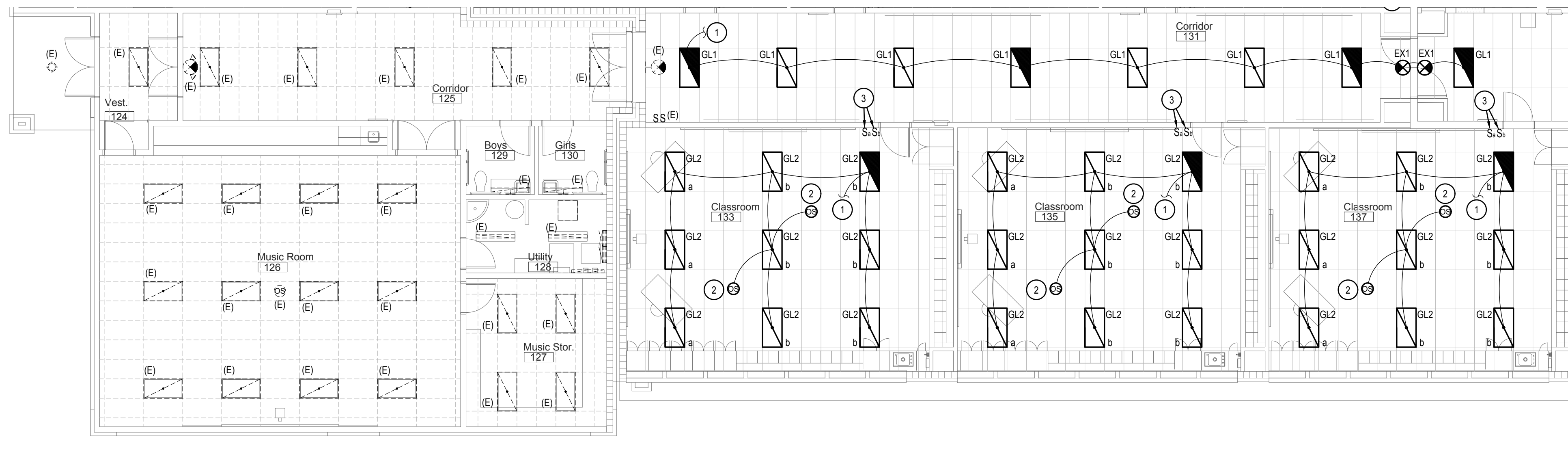
Jefferson Elementary School
Addition and Remodel
600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
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REVISIONS:

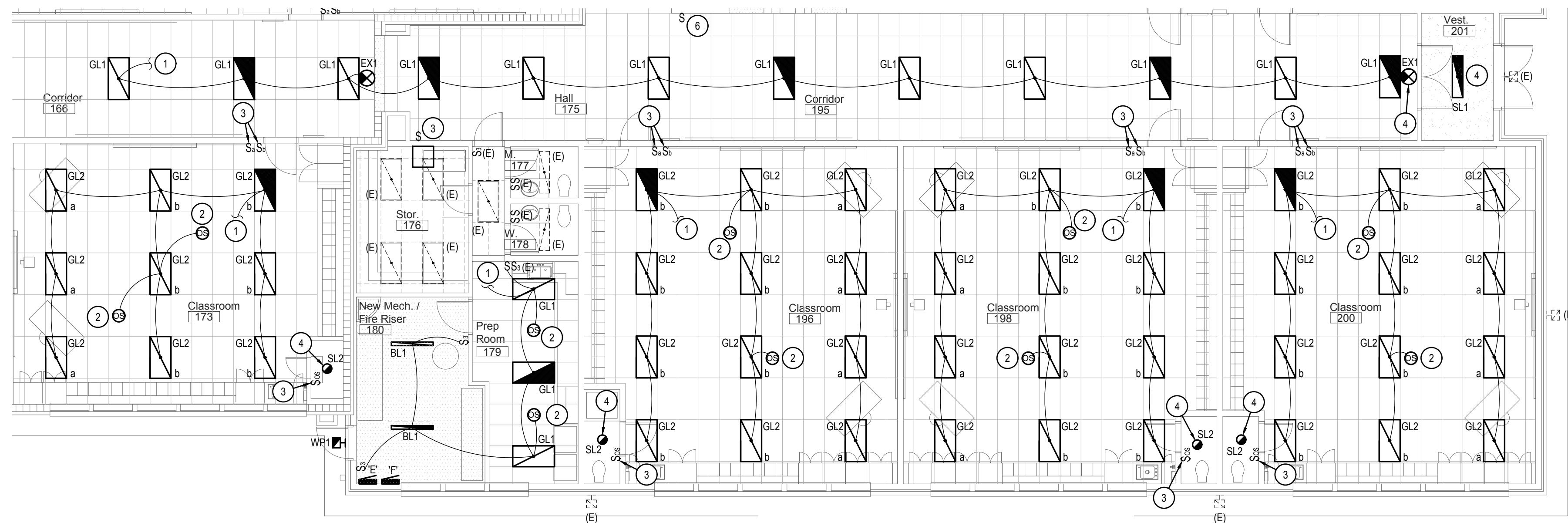
DRAWN BY: AN
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Design Development

DRAWING NO.
E-4.3
LIGHTING PLAN - AREA 'C'



1 Lighting Plan - Area 'D'
Scale: 1/8" = 1'-0"



2 Lighting Plan - Area 'E'
Scale: 1/8" = 1'-0"

KEYED NOTES:

- 1. SYMBOL USED FOR NOTE CALLOUT.
- 1. EXTEND THE SWITCHED LIGHTING CIRCUITS SERVING THIS ROOM TO THE NEW LIGHTS AS INDICATED. EXISTING CONDUIT, BOXES, AND CONDUCTORS, AN WHIPS MAY BE REUSED WHERE POSSIBLE. LIGHT FIXTURES SHALL BE CONTROLLED BY THE LIGHT SWITCH WITH THE SAME LIGHTING ZONE SUBSCRIPT IDENTIFICATION. EXTEND AN UNSWITCHED LEG OF THE LIGHTING CIRCUIT TO THE EMERGENCY BATTERIES WHERE INDICATED.
- 2. PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSOR FOR AUTOMATED ON/OFF CONTROL OF LIGHTING IN THIS ROOM. CONNECT SUCH THAT THE OCCUPANCY SENSOR CONTROL IS AHEAD OF THE MANUAL LIGHT SWITCH CONTROLS AND SO THAT DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM WILL ACTIVATE LIGHTING CIRCUIT(S) SERVING THE ROOM. OCCUPANCY SENSOR SHALL TURN OFF THE LIGHTING OFF AFTER 20 MINUTES OF NO OCCUPANCY DETECTION. LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATION TO ENSURE MOTION IS DETECTED WITHIN 2FT OF ENTERING ROOM. PROVIDE AND INSTALL ALL POWER PACKS AND RELAYS AS REQUIRED. RE: OCCUPANCY SENSORS DETAIL.
- 3. REPLACE EXISTING LIGHT SWITCHES AND THE ASSOCIATED COVER PLATE WITH NEW. SWITCHES SHALL CONTROL THE LIGHT FIXTURES IN THIS ROOM WITH THE SAME LIGHTING ZONE SUBSCRIPT IDENTIFICATION.
- 4. REPLACE EXISTING LIGHT FIXTURE WITH NEW. CONNECT NEW FIXTURE TO THE EXISTING LIGHTING CIRCUIT AND CONTROLS. EXTEND AN UNSWITCHED LEG OF THE LIGHTING CIRCUIT TO THE INTEGRAL EMERGENCY BATTERY WHERE INDICATED.

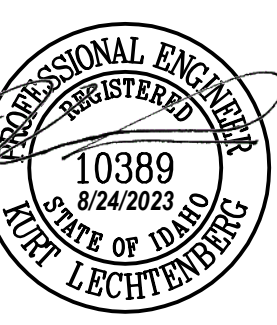


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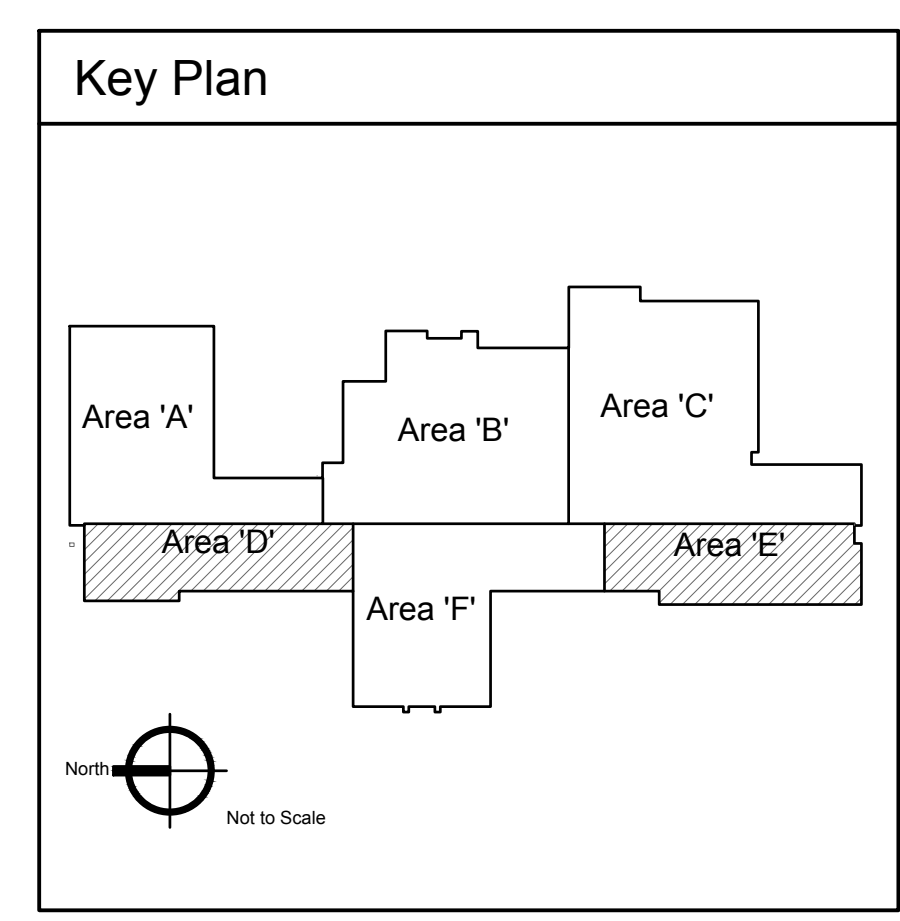
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**Jefferson Elementary School
Addition and Remodel**
600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
LKV PROJECT #:
REVISIONS:

DRAWN BY: AN
CHECKED BY: KL

Design Development

DRAWING NO.

E-4.4

LIGHTING PLAN - AREA 'D' AND 'E'



1 Lighting Plan - Area 'F'
Scale: 1/8" = 1'-0"

KEYED NOTES:

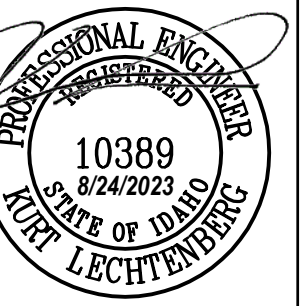
- 1. SYMBOL USED FOR NOTE CALLOUT.
- 2. EXTEND THE SWITCHED LIGHTING CIRCUITS SERVING THIS ROOM TO THE NEW LIGHTS AS INDICATED. EXISTING CONDUIT, BOXES, AND CONDUCTORS, AN WHIPS MAY BE REUSED WHERE POSSIBLE. LIGHT FIXTURES SHALL BE CONTROLLED BY THE LIGHT SWITCH WITH THE SAME LIGHTING ZONE SUBSCRIPT IDENTIFICATION. EXTEND AN UNSWITCHED LEG OF THE LIGHTING CIRCUIT TO THE EMERGENCY BATTERIES WHERE INDICATED.
- 3. PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSOR FOR AUTOMATED ON/OFF CONTROL OF LIGHTING IN THIS ROOM. CONNECT SUCH THAT THE OCCUPANCY SENSOR CONTROL IS AHEAD OF THE MANUAL LIGHT SWITCH CONTROLS AND SO THAT DETECTION OF OCCUPANCY BY ANY SENSOR IN THE ROOM WILL ACTIVATE LIGHTING CIRCUIT(S) SERVING THE ROOM. OCCUPANCY SENSOR SHALL TURN OFF THE LIGHTING OFF AFTER 20 MINUTES OF NO OCCUPANCY DETECTION. LOCATE SENSORS PER MANUFACTURER'S RECOMMENDATION TO ENSURE MOTION IS DETECTED WITHIN 2FT OF ENTERING ROOM. PROVIDE AND INSTALL ALL POWER PACKS AND RELAYS AS REQUIRED. RE: OCCUPANCY SENSORS DETAIL.
- 4. REPLACE EXISTING LIGHT SWITCHES AND THE ASSOCIATED COVER PLATE WITH NEW. SWITCHES SHALL CONTROL THE LIGHT FIXTURES IN THIS ROOM WITH THE SAME LIGHTING ZONE SUBSCRIPT IDENTIFICATION.
- 5. REPLACE EXISTING LIGHT FIXTURE WITH NEW. CONNECT NEW FIXTURE TO THE EXISTING LIGHTING CIRCUIT AND CONTROLS. EXTEND AN UNSWITCHED LEG OF THE LIGHTING CIRCUIT TO THE INTEGRAL EMERGENCY BATTERY WHERE INDICATED.
- 6. EXTEND AN UNSWITCHED LEG OF THE LIGHTING CIRCUIT SERVING THIS ROOM TO THE NEW LIGHT FIXTURE AND CONTROLS FOR S.R. 159A. LIGHTING IN S.R. 159A SHALL NOT BE CONTROLLED BY LIGHT SWITCH(ES) IN OTHER ROOMS.
- 7. PROVIDE TUNABLE LIGHTING CONTROLS FOR THE LIGHT FIXTURE IN S.R. 159A. TUNABLE CONTROLS SHALL ALLOW LIGHTING COLOR TEMPERATURE ADJUSTMENT BETWEEN 2700K AND 6500K.
- 8. PROVIDE SWITCH FOR ON/OFF AND DIMMING CONTROL OF LIGHT FIXTURE IN S.R. 159A.
- 9. DAYLIGHT ZONE PERIMETER PER 2018 IECC SHOWN FOR REFERENCE.



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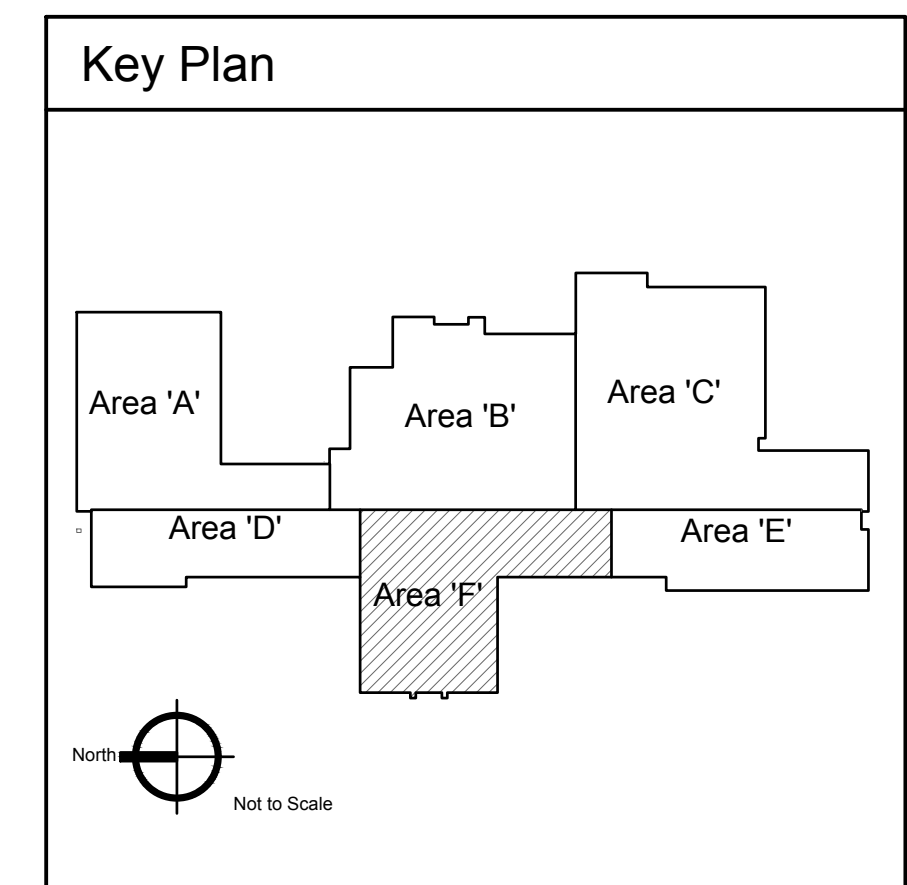
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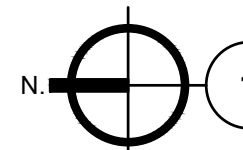
Design Development

DRAWING NO.

E-4.5
LIGHTING PLAN - AREA 'F'

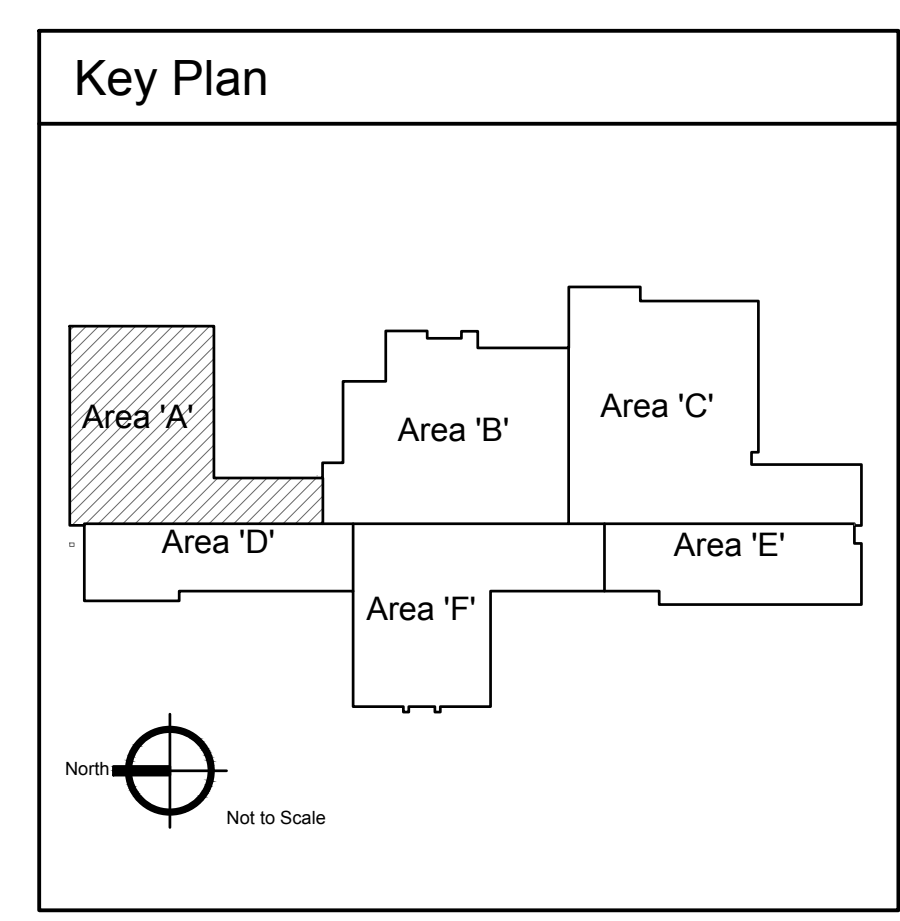






Mechanical Power Plan - Area 'A'
 Scale: 1/8" = 1'-0"

KEYED NOTES:


- ① SYMBOL USED FOR NOTE CALLOUT.
- 1. HVAC SYSTEM SENSOR(S), BOX(ES) AND CONDUIT TO BE PROVIDED BY ELECTRICAL CONTRACTOR. SENSOR AND ALL CABLING TO BE FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. PROVIDE A JUNCTION BOX AT 48" AFF FOR EACH SENSOR INDICATED AND 1/2" CONDUIT FROM THE SENSOR JUNCTION BOX TO ABOVE THE NEAREST ACCESSIBLE CEILING. COORDINATE BOX SIZE AND LOCATION AND THE CONDUIT REQUIREMENTS WITH DDC CONTRACTOR.
- 2. ELECTRICAL CONTRACTOR TO PROVIDE AND CONNECT DUCT DETECTOR. PROVIDE CONNECTION FOR MECHANICAL UNIT SHUT DOWN UPON ACTIVATION OF DUCT DETECTOR. MECHANICAL CONTRACTOR TO MOUNT DUCT DETECTOR IN RETURN SIDE OF DUCT WORK. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
- 3. MOUNT DUCT DETECTOR INDICATOR LED/ANNUNCIATOR IN CEILING BELOW UNIT. LABEL TO IDENTIFY THE RTU IT IS ASSOCIATED WITH.
- 4. PROVIDE CONNECTION FOR PLUMBING FIXTURE TRANSFORMER. TRANSFORMER(S) PROVIDED BY PLUMBING CONTRACTOR. COORDINATE CONNECTION REQUIREMENTS AND BACKBOX LOCATIONS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN TO PROVIDE COMPLETE SYSTEM. RE: PLUMBING SCHEDULES.
- 5. PROVIDE GFCI BREAKER IN PANEL FOR CIRCUIT INDICATED.





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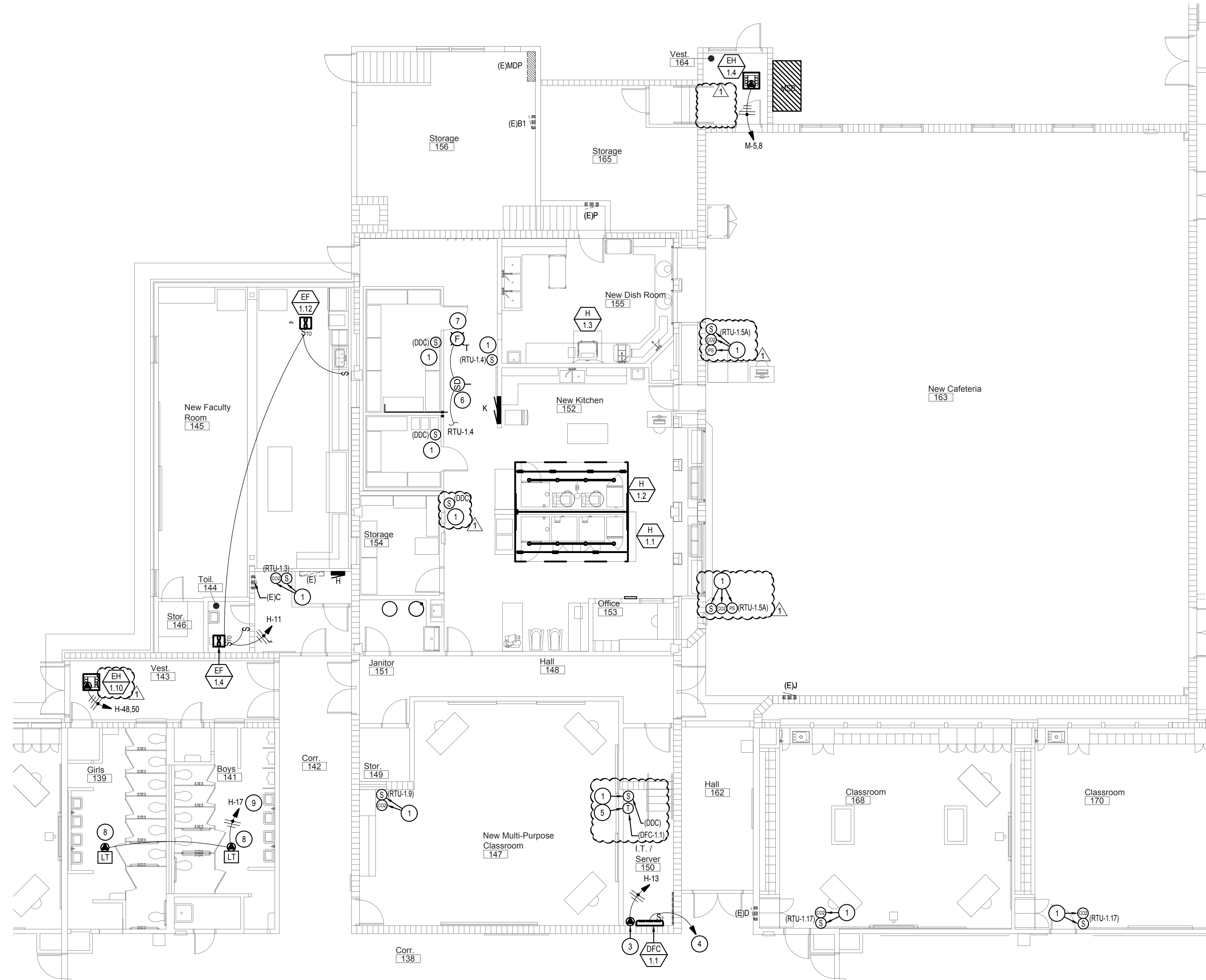
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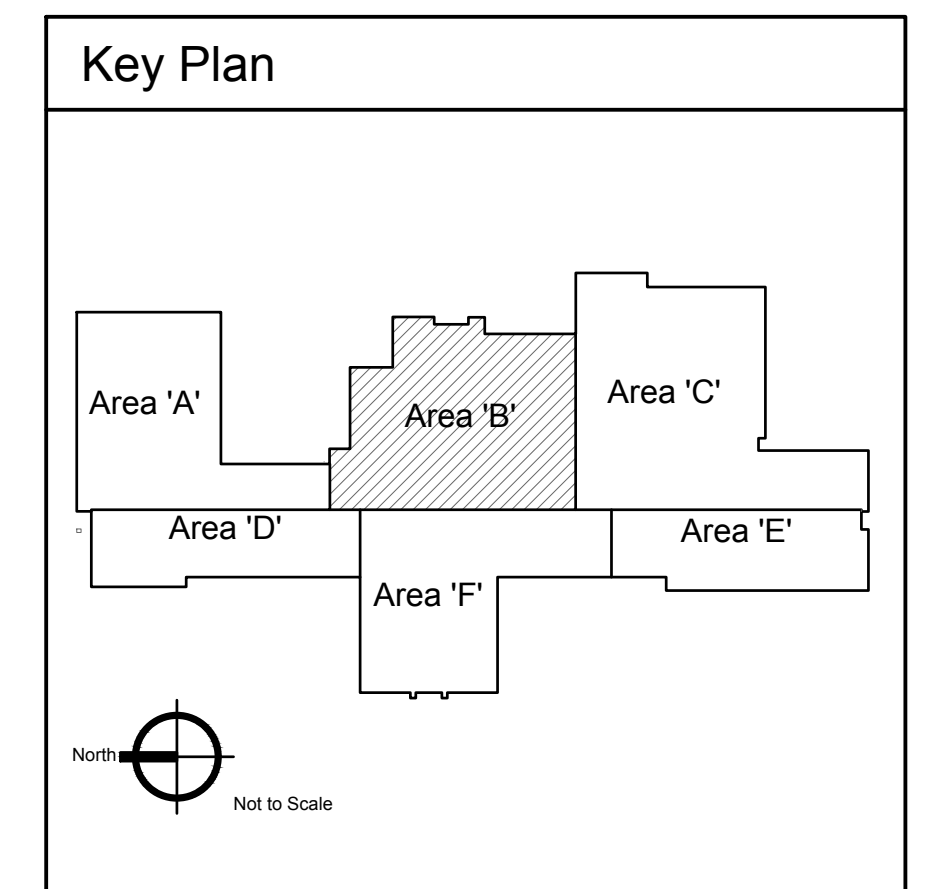
DRAWING NO.
E-5.1
MECHANICAL POWER
PLAN - AREA 'A'



1 Mechanical Power Plan - Area 'B'
Scale: 1/8" = 1'-0"

KEYED NOTES:

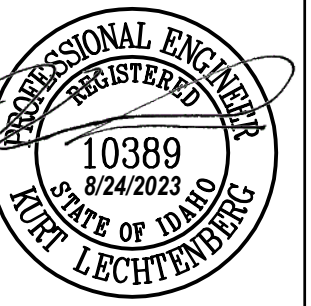
- 1. HVAC SYSTEM SENSOR(S), BOX(ES) AND CONDUIT TO BE PROVIDED BY ELECTRICAL CONTRACTOR. SENSOR AND ALL CABLING TO BE FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. PROVIDE A JUNCTION BOX AT 48" AFF FOR EACH SENSOR INDICATED AND 1/2" CONDUIT FROM THE SENSOR JUNCTION BOX TO ABOVE THE NEAREST ACCESSIBLE CEILING. COORDINATE BOX SIZE AND LOCATION AND THE CONDUIT REQUIREMENTS WITH DDC CONTRACTOR.
- 2. LINE VOLTAGE HEAT RISE T-STAT. 1/2" CONDUIT TO ASSOCIATED MECHANICAL UNIT. BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE WITH MECHANICAL CONTRACTOR.
- 3. CONNECTION FOR CONDENSATION PUMP. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 4. PROVIDE AND INSTALL LINE VOLTAGE AND CONTROL CABLING TO THE CORRESPONDING OUTDOOR UNIT. COORDINATE REQUIREMENTS WITH THE MECHANICAL CONTRACTOR.
- 5. 1/2" CONDUIT TO CORRESPONDING MECHANICAL UNIT. BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LEAVE 12" SLACK AT BOX AND MECHANICAL UNIT. MECHANICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. COORDINATE BOX SIZE AND QUANTITY OF CONDUCTOR(S) WITH MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- 6. ELECTRICAL CONTRACTOR TO PROVIDE AND CONNECT DUCT DETECTOR. PROVIDE CONNECTION FOR MECHANICAL UNIT SHUT DOWN UPON ACTIVATION OF DUCT DETECTOR. MECHANICAL CONTRACTOR TO MOUNT DUCT DETECTOR IN RETURN SIDE OF DUCT WORK. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
- 7. MOUNT DUCT DETECTOR INDICATOR LED/ANNUNCIATOR IN CEILING BELOW UNIT. LABEL TO IDENTIFY THE RTU IT IS ASSOCIATED WITH.
- 8. PROVIDE CONNECTION FOR PLUMBING FIXTURE TRANSFORMER. TRANSFORMER(S) PROVIDED BY PLUMBING CONTRACTOR. COORDINATE CONNECTION REQUIREMENTS AND BACKBOX LOCATIONS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN TO PROVIDE COMPLETE SYSTEM. RE: PLUMBING SCHEDULES.
- 9. PROVIDE GFCI BREAKER IN PANEL FOR CIRCUIT INDICATED.



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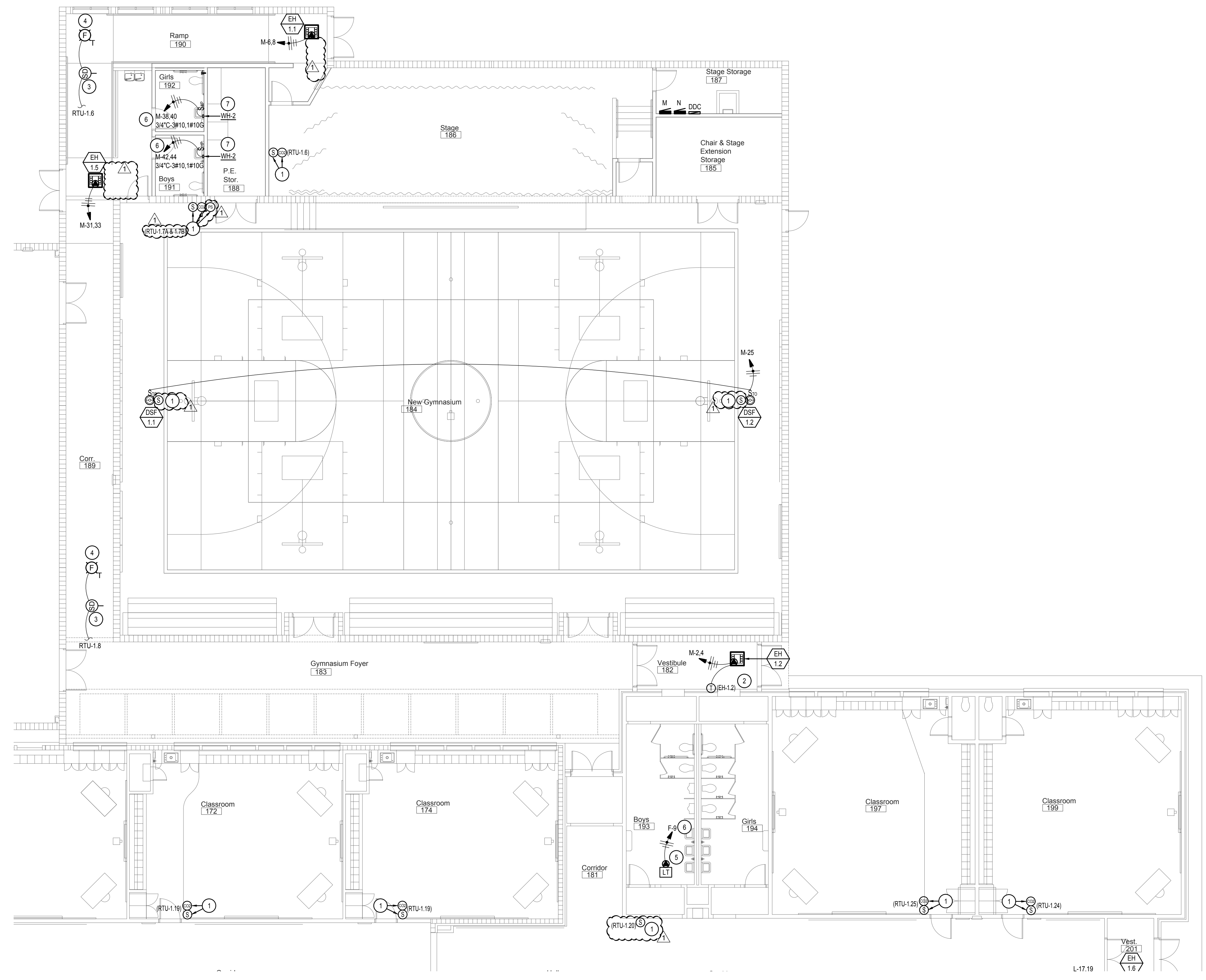
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DRAWING NO.

E-5.2

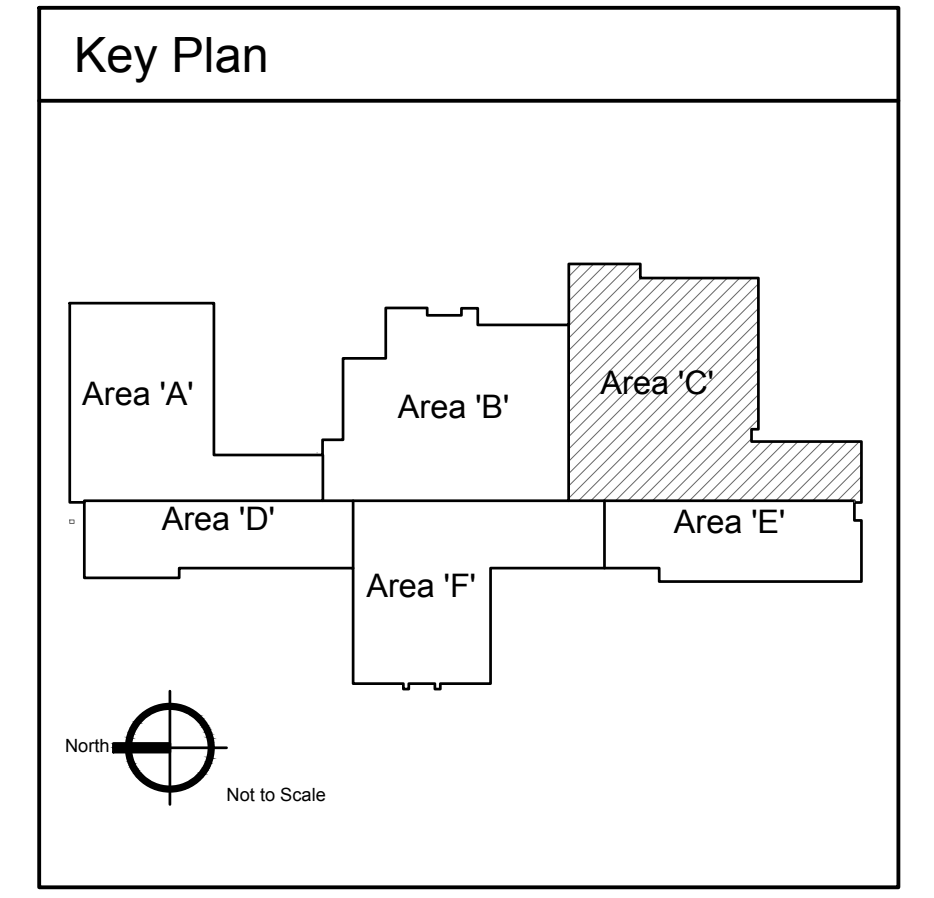
MECHANICAL POWER
PLAN - AREA 'B'




1 Mechanical Power Plan - Area 'C'
Scale: 1/8" = 1'-0"

KEYED NOTES:


- 1. HVAC SYSTEM SENSOR(S), BOX(ES) AND CONDUIT TO BE PROVIDED BY ELECTRICAL CONTRACTOR. SENSOR AND ALL CABLING TO BE FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. PROVIDE A JUNCTION BOX AT 48" AFF FOR EACH SENSOR INDICATED AND 1/2" CONDUIT FROM THE SENSOR JUNCTION BOX TO ABOVE THE NEAREST ACCESSIBLE CEILING. COORDINATE BOX SIZE AND LOCATION AND THE CONDUIT REQUIREMENTS WITH DDC CONTRACTOR.
- 2. LINE VOLTAGE HEAT RISE T-STAT. 1/2" CONDUIT TO ASSOCIATED MECHANICAL UNIT. BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE WITH MECHANICAL CONTRACTOR.
- 3. ELECTRICAL CONTRACTOR TO PROVIDE AND CONNECT DUCT DETECTOR. PROVIDE CONNECTION FOR MECHANICAL UNIT SHUT DOWN UPON ACTIVATION OF DUCT DETECTOR. MECHANICAL CONTRACTOR TO MOUNT DUCT DETECTOR IN RETURN SIDE OF DUCT WORK. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
- 4. MOUNT DUCT DETECTOR INDICATOR LED/ANNUNCIATOR IN CEILING BELOW UNIT. LABEL TO IDENTIFY THE RTU IT IS ASSOCIATED WITH.
- 5. PROVIDE CONNECTION FOR PLUMBING FIXTURE TRANSFORMER. TRANSFORMER(S) PROVIDED BY PLUMBING CONTRACTOR. COORDINATE CONNECTION REQUIREMENTS AND BACKBOX LOCATIONS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN TO PROVIDE COMPLETE SYSTEM. RE: PLUMBING SCHEDULES.
- 6. PROVIDE GFCI BREAKER IN PANEL FOR CIRCUIT INDICATED.
- 7. CONNECT WATER HEATER AND ALL ASSOCIATED DEVICES AND EQUIPMENT. COORDINATE WITH PLUMBING CONTRACTOR TO ENSURE ALL ASSOCIATED DEVICES FIT BENEATH, AND DO NOT INTERFERE WITH, SINK SHROUD PRIOR TO ROUGH-IN.





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OVER 40 YEARS OF EXCELLENCE
Project No. 22-104



#	Description	Date
1	Addendum #1	05/11/2023

**Jefferson Elementary School
Addition and Remodel**

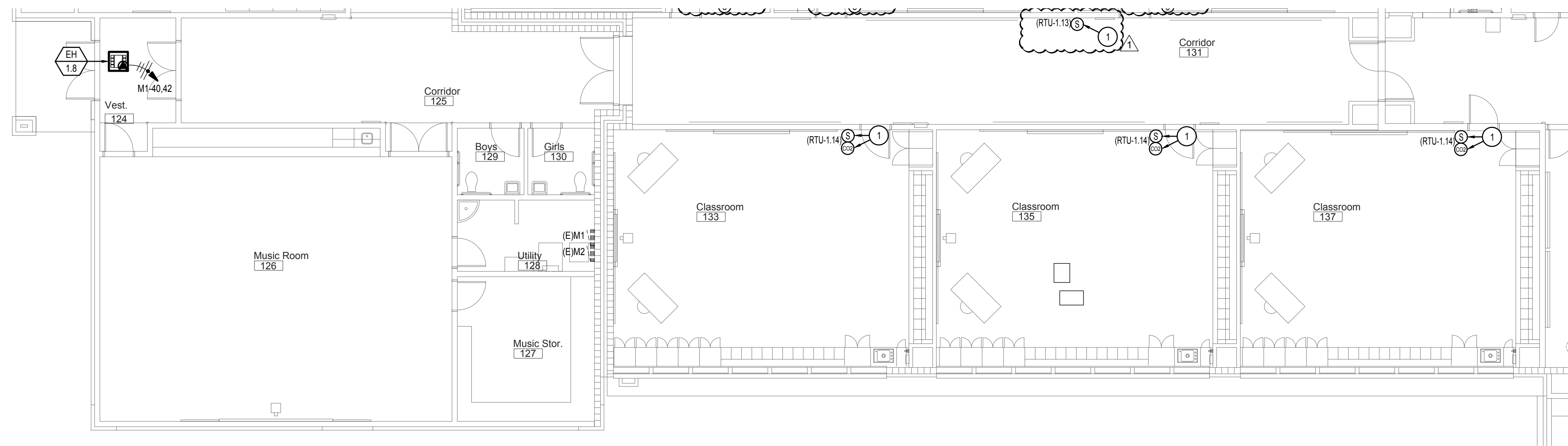
600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
LKV PROJECT #: -
REVISIONS:

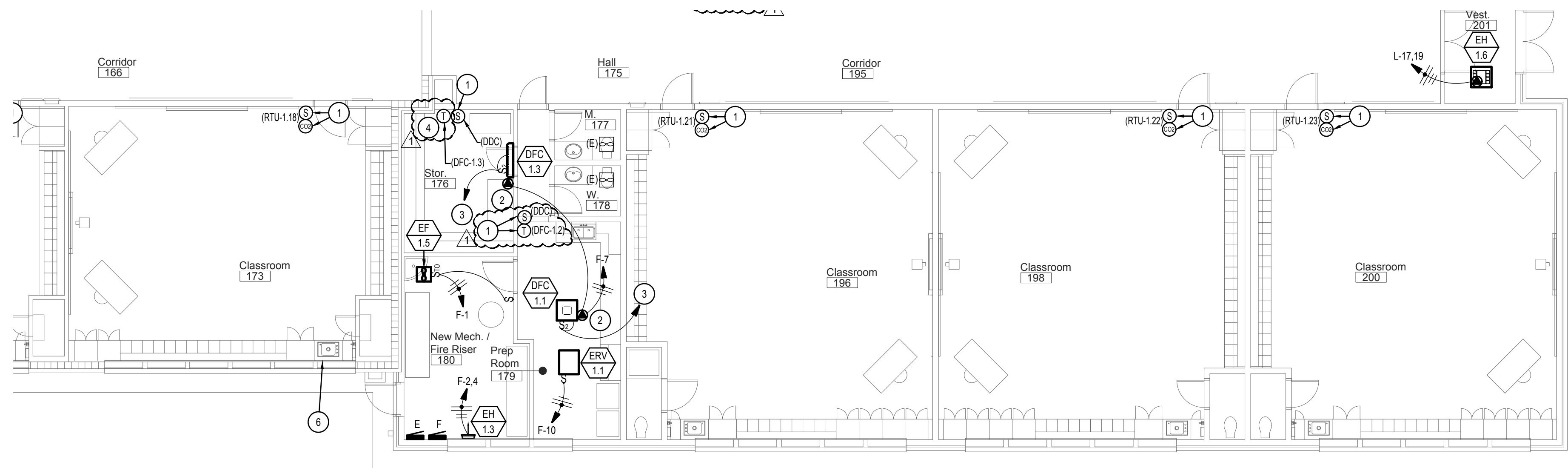
DRAWN BY: AN
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Design Development

DRAWING NO.
E-5.3
MECHANICAL POWER
PLAN - AREA 'C'



1 Mechanical Power Plan - Area 'D'
Scale: 1/8" = 1'-0"



2 Mechanical Power Plan - Area 'E'
Scale: 1/8" = 1'-0"

KEYED NOTES:

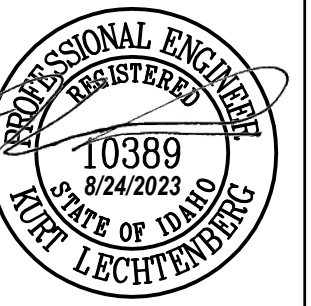
- # SYMBOL USED FOR NOTE CALLOUT.
- 1. HVAC SYSTEM SENSOR(S), BOX(ES) AND CONDUIT TO BE PROVIDED BY ELECTRICAL CONTRACTOR. SENSOR AND ALL CABLING TO BE FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. PROVIDE A JUNCTION BOX AT 48" AFF FOR EACH SENSOR INDICATED AND 1/2" CONDUIT FROM THE SENSOR JUNCTION BOX TO ABOVE THE NEAREST ACCESSIBLE CEILING. COORDINATE BOX SIZE AND LOCATION AND THE CONDUIT REQUIREMENTS WITH DDC CONTRACTOR.
- 2. CONNECTION FOR CONDENSATION PUMP. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 3. PROVIDE AND INSTALL LINE VOLTAGE AND CONTROL CABLING TO THE CORRESPONDING OUTDOOR UNIT. COORDINATE REQUIREMENTS WITH THE MECHANICAL CONTRACTOR.
- 4. 1/2" CONDUIT TO CORRESPONDING MECHANICAL UNIT. BOX, CONDUIT, AND CONDUCTORS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LEAVE 12" SLACK AT BOX AND MECHANICAL UNIT. MECHANICAL CONTRACTOR TO MAKE FINAL CONNECTIONS. COORDINATE BOX SIZE AND QUANTITY OF CONDUCTOR(S) WITH MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.



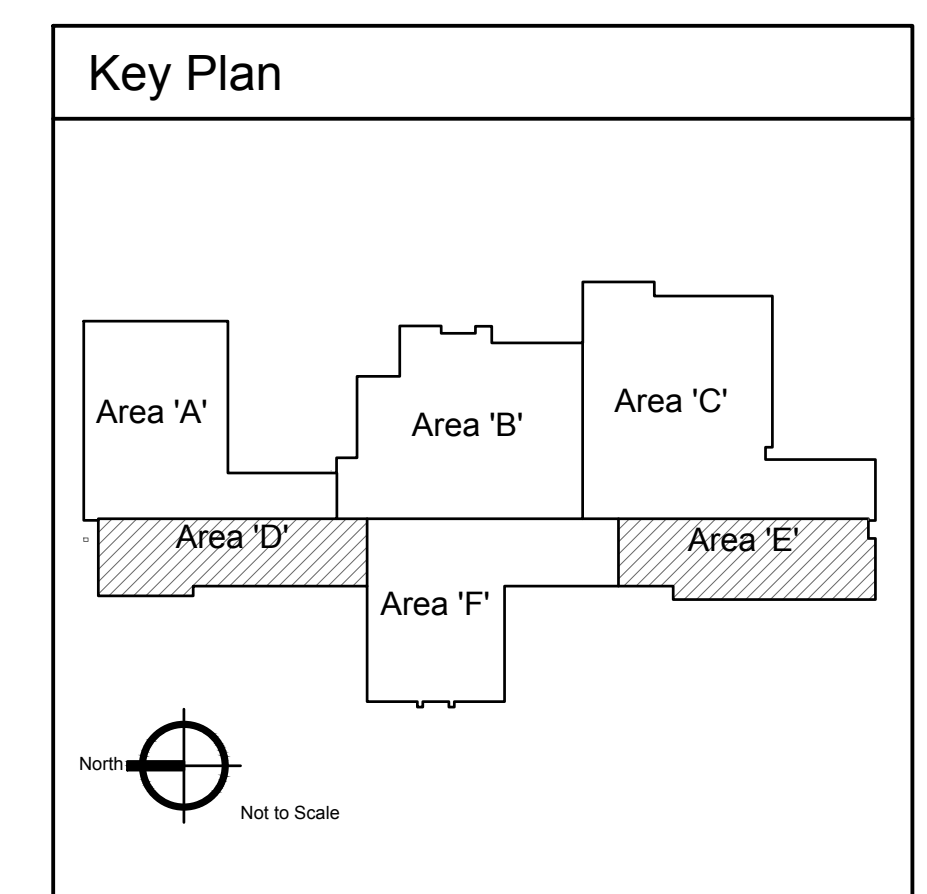
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Project No. 22-104



#	Revisions	Date
1	Description Addendum #1	05/11/2023



**Jefferson Elementary School
Addition and Remodel**
600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
LKV PROJECT #: -
REVISIONS:

DRAWN BY: AN
CHECKED BY: KL

Design Development

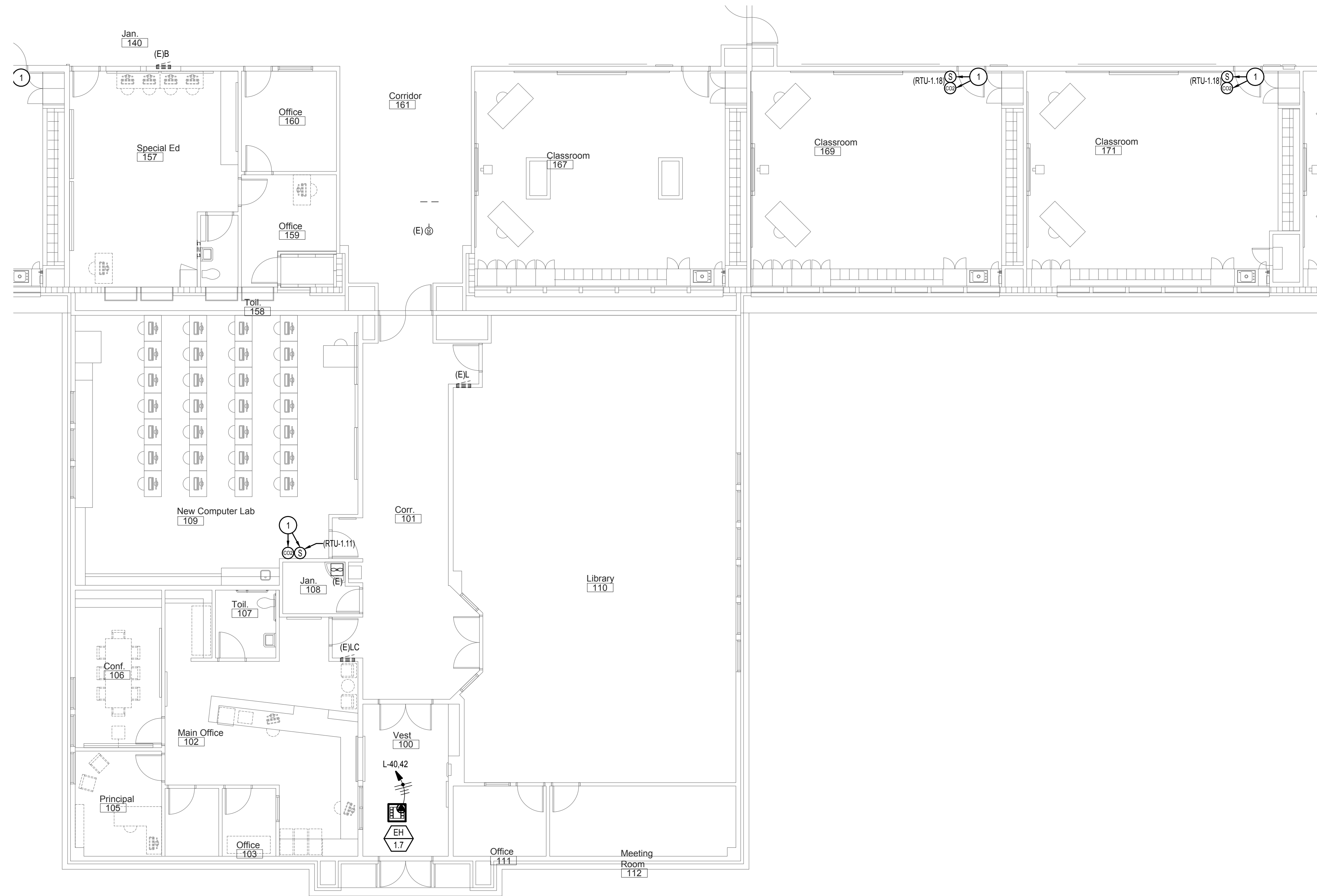
DRAWING NO.

E-5.4

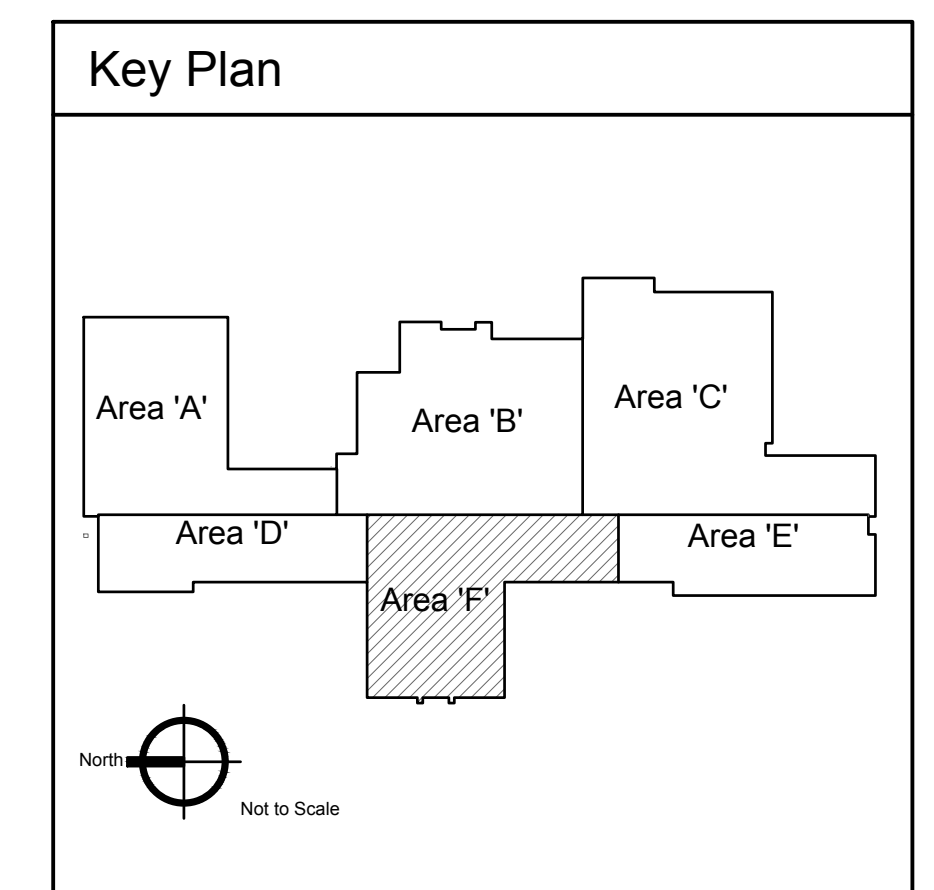
MECHANICAL POWER
PLAN - AREA 'D' AND 'E'

KEYED NOTES:

- ① SYMBOL USED FOR NOTE CALLOUT.
- 1. HVAC SYSTEM SENSOR(S), BOX(ES) AND CONDUIT TO BE PROVIDED BY ELECTRICAL CONTRACTOR. SENSOR AND ALL CABLING TO BE FURNISHED AND INSTALLED BY THE DDC CONTRACTOR. PROVIDE A JUNCTION BOX AT 48" AFF FOR EACH SENSOR INDICATED AND 1/2" CONDUIT FROM THE SENSOR JUNCTION BOX TO ABOVE THE NEAREST ACCESSIBLE CEILING. COORDINATE BOX SIZE AND LOCATION AND THE CONDUIT REQUIREMENTS WITH DDC CONTRACTOR.



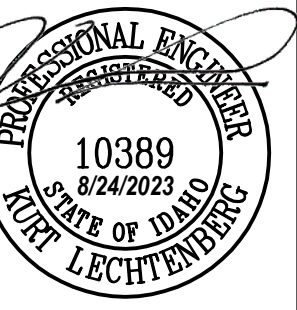
① Mechanical Power Plan - Area 'F'
Scale: 1/8" = 1'-0"



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Revisions	
#	Date
1	05/11/2023
Description: Addendum #1	

**Jefferson Elementary School
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600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
LKV PROJECT #: -
REVISIONS:

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Design Development

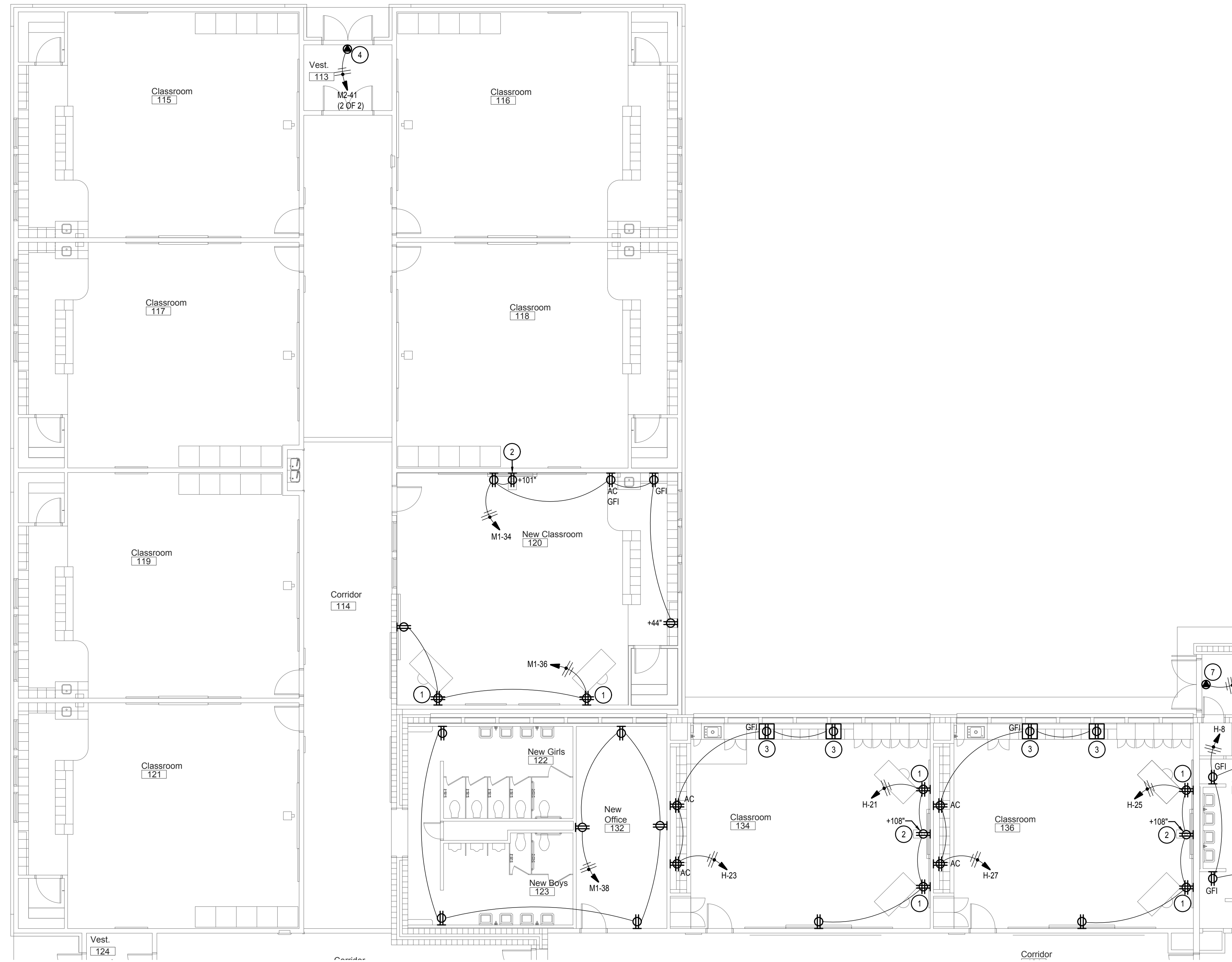
DRAWING NO.

E-5.5
MECHANICAL POWER
PLAN - AREA 'F'

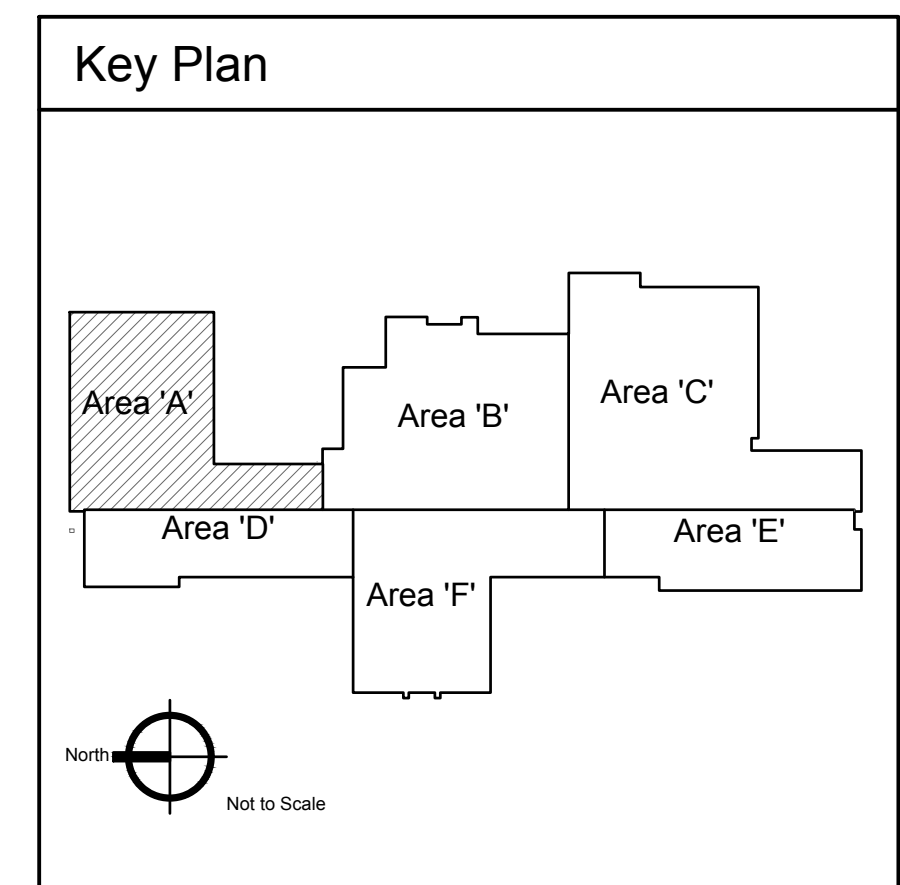
ALL NON-LOCKING 120-V, 15 AND 10-AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES PER NEC 406.12

KEYED NOTES:

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. RECEPTACLE FOR TEACHERS STATION. RE: CLASSROOM TEACHER STATION DETAIL.
- 2. RECEPTACLE FOR SHORT THROW PROJECTOR. VERIFY PROJECTOR HEIGHT PRIOR TO INSTALLATION. PROJECTOR IS OWNER FURNISHED. CONTRACTOR INSTALLED. CONFIRM WITH OWNER FOR INSTALLATION OF FUTURE PROJECTOR OR FUTURE TV AT THIS LOCATION PRIOR TO ROUGH-IN. RE: CLASSROOM PROJECTOR DETAIL.
- 3. COUNTER TOP FLIP UP RECEPTACLE. PROVIDE LEVITON MODEL 'PFGF1-MB' OR EQUAL FLIP UP BOX IN MILLWORK AT WALL. COORDINATE BOX LOCATION AND CONDUIT ROUTING WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN.
- 4. PROVIDE JUNCTION BOX FOR DOOR SECURITY POWER. PROVIDE BOXES AND CONDUIT FOR FUTURE SECURITY CONDUCTORS. VERIFY ALL REQUIREMENTS WITH DOOR SECURITY EQUIPMENT PROVIDER PRIOR TO ROUGH-IN. RE: DOOR ACCESS CONTROL DETAIL.



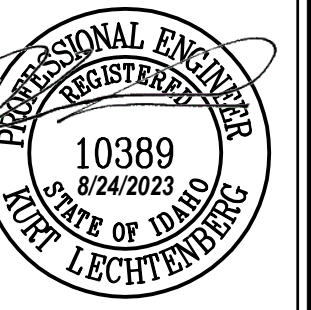
1 Power Plan - Area 'A'
Scale: 1/8" = 1'-0"



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Design Development

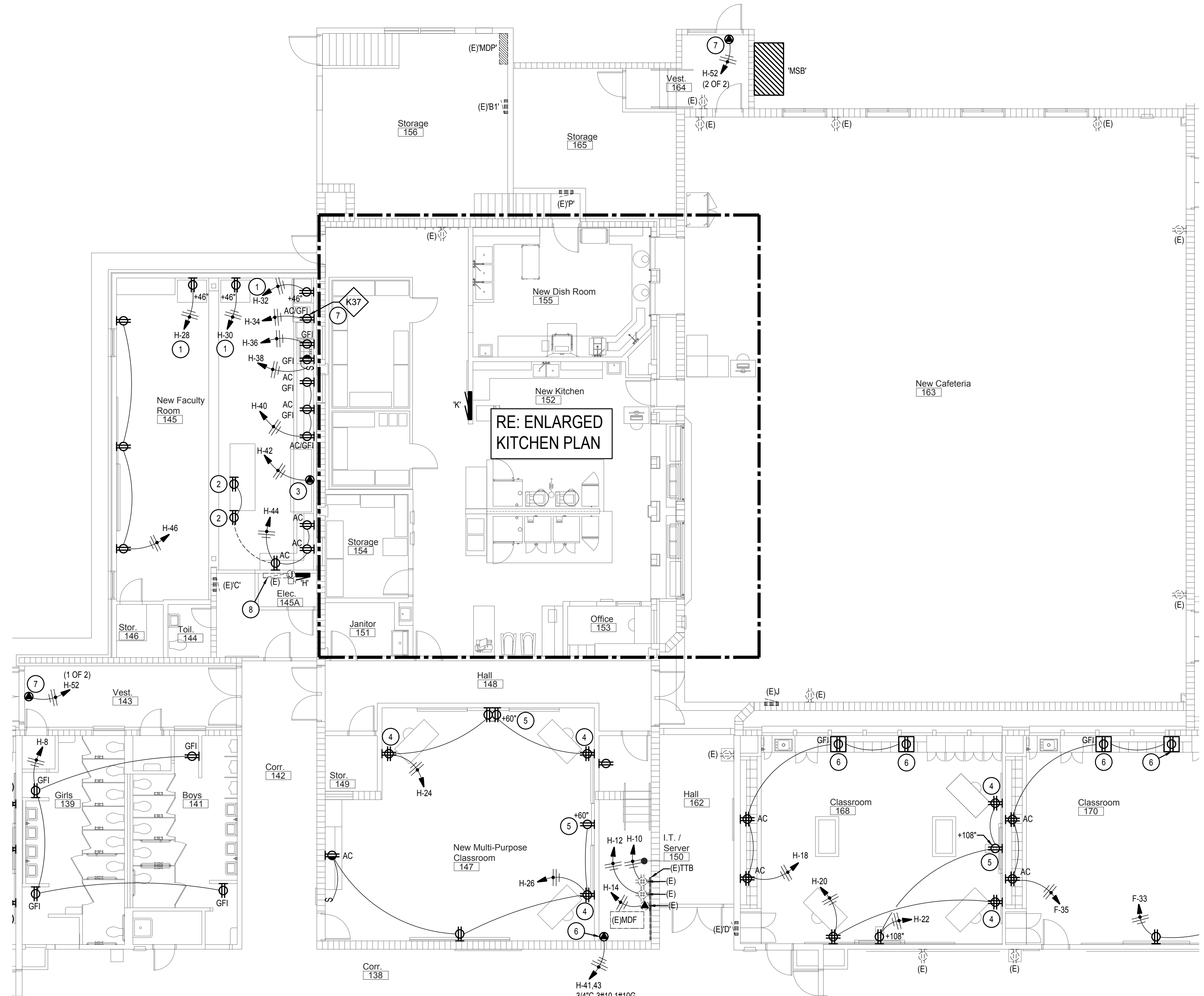
DRAWING NO.

E-6.1
POWER PLAN - AREA 'A'

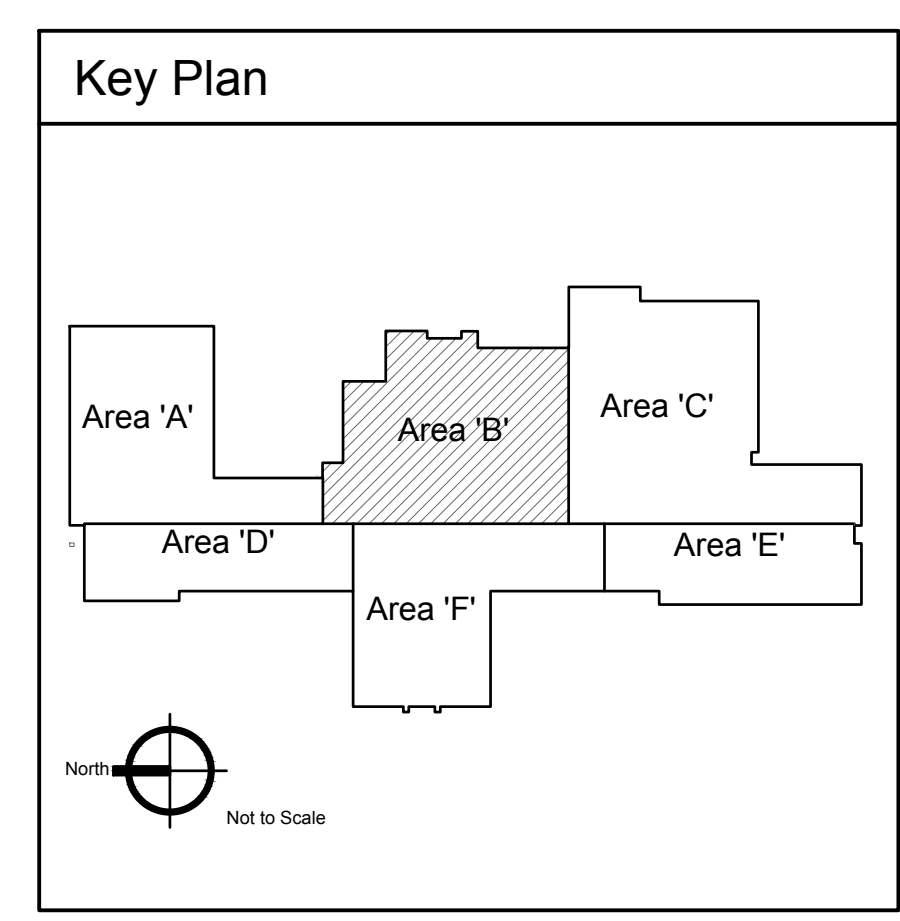
ALL NON-LOCKING 120-V, 15 AND 10-AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES PER NEC 406.12

KEYED NOTES:

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. PROVIDE GFCI TYPE CIRCUIT BREAKER FOR CIRCUIT NOTED.
- 2. RECEPTACLE MOUNTED IN MILLWORK. COORDINATE BOX LOCATION AND CONDUIT ROUTING WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN. RE: ARCHITECTURAL MILLWORK ELEVATIONS.
- 3. CONNECTION FOR PRINTER. VERIFY CONNECTION REQUIREMENTS AND LOCATION WITH PRINTER SUPPLIER PRIOR TO ROUGH-IN.
- 4. RECEPTACLE FOR TEACHERS STATION. RE: CLASSROOM TEACHER STATION DETAIL.
- 5. RECEPTACLE FOR SHORT THROW PROJECTOR. VERIFY PROJECTOR HEIGHT PRIOR TO INSTALLATION. PROJECTOR IS OWNER FURNISHED. CONTRACTOR INSTALLED. CONFIRM WITH OWNER FOR INSTALLATION OF FUTURE PROJECTOR OR FUTURE TV AT THIS LOCATION PRIOR TO ROUGH-IN. RE: CLASSROOM PROJECTOR DETAIL.
- 6. COUNTER TOP FLIP UP RECEPTACLE. PROVIDE LEVITON MODEL 'PFGF1-MB' OR EQUAL FLIP UP BOX IN MILLWORK AT WALL. COORDINATE BOX LOCATION AND CONDUIT ROUTING WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN.
- 7. CONNECTION FOR ABOVE COUNTER ICE MAKER. RE: KITCHEN EQUIPMENT SCHEDULE, ENLARGED KITCHEN PLAN.
- 5. RECEPTACLE FOR TV. VERIFY TV LOCATION AND HEIGHT PRIOR TO INSTALLATION. TV IS OWNER FURNISHED. CONTRACTOR INSTALLED.
- 6. CONNECTION FOR SERVER EQUIPMENT. PROVIDE L6-30R RECEPTACLE. VERIFY CONNECTION REQUIREMENTS AND LOCATION PRIOR TO ROUGH-IN.
- 7. PROVIDE JUNCTION BOX FOR DOOR SECURITY POWER. PROVIDE BOXES AND CONDUIT FOR FUTURE SECURITY CONDUCTORS. VERIFY ALL REQUIREMENTS WITH DOOR SECURITY EQUIPMENT PROVIDER PRIOR TO ROUGH-IN. RE: DOOR ACCESS CONTROL DETAIL.
- 8. EXISTING PULLBOX HOUSING PANEL FEEDERS AND EXTENSION LUGS TO REMAIN.



1 Power Plan - Area 'B'
Scale: 1/8" = 1'-0"



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Revisions	Date
Description Addendum #1	05/11/2023

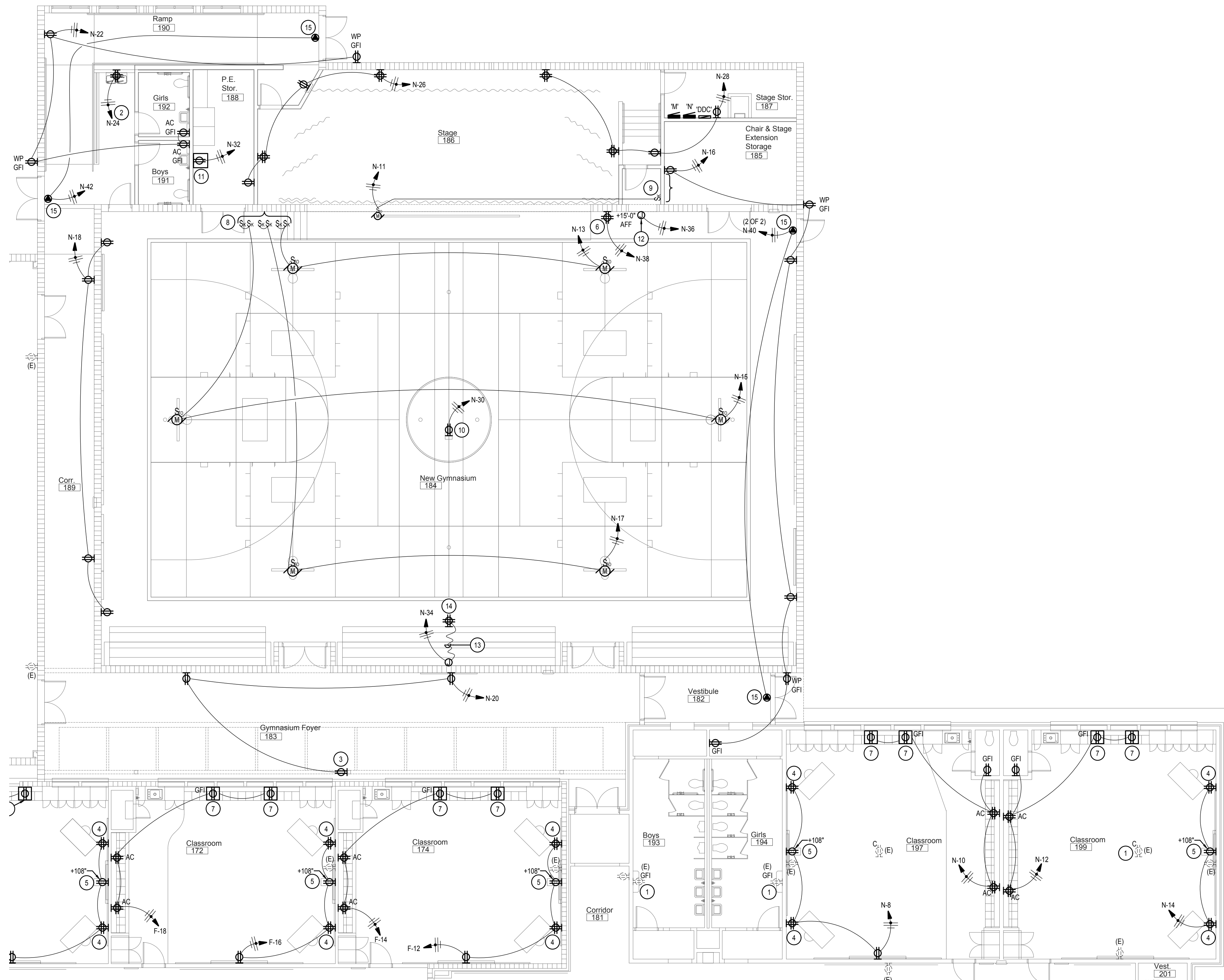
**Jefferson Elementary School
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DATE: February 24, 2023
LKV PROJECT #: -
REVISIONS:
DRAWN BY: AN
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Design Development
DRAWING NO.
E-6.2
POWER PLAN - AREA 'B'

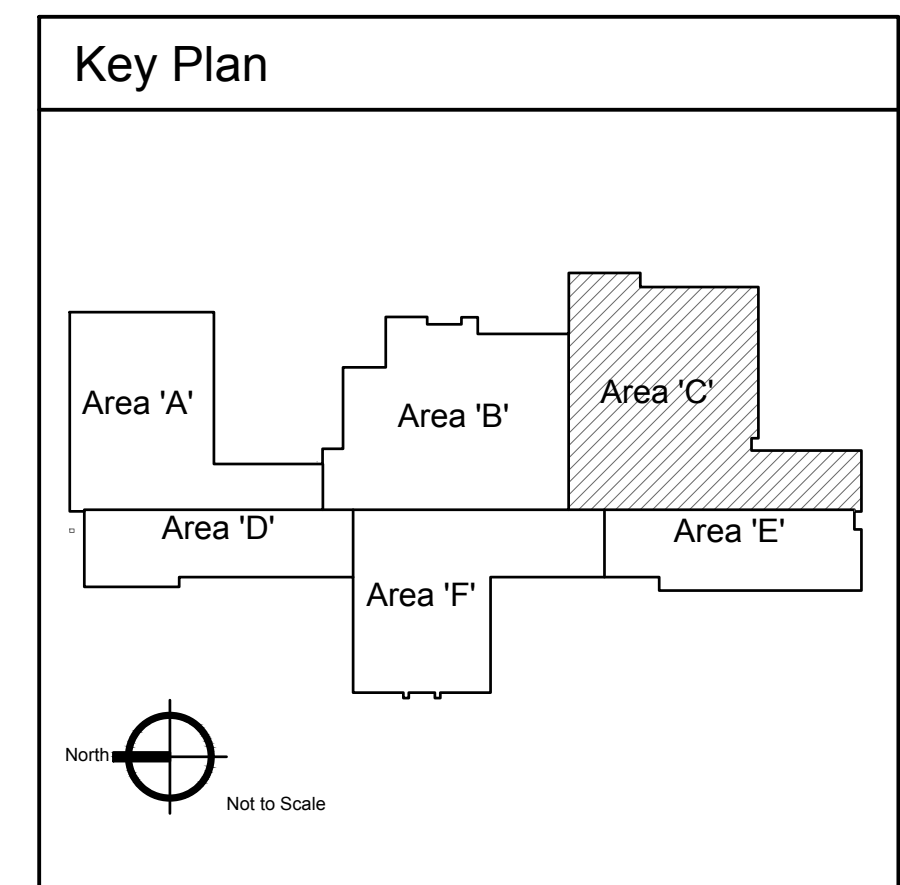
ALL NON-LOCKING 120-V, 15 AND 10-AMP RECEPTACLES SHALL BE LISTED
TAMPER-RESISTANT RECEPTACLES PER NEC 406.12

KEYED NOTES:

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. EXISTING DEVICE TO BE DISCONNECTED AND REMOVED. REFER TO THE DEMOLITION PLAN FOR ADDITIONAL INFORMATION. FURNISH AND INSTALL NEW DEVICE NOTED AND EXTEND AND RECONNECT EXISTING CONDUIT AND WIRING AS REQUIRED. COORDINATE WITH EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
- 2. PROVIDE GFCI BREAKER IN PANEL FOR CIRCUIT INDICATED.
- 3. SURFACE MOUNTED RECEPTACLE MOUNTED TO STEEL COLUMN WITH WIREMOLD.
- 4. RECEPTACLE FOR TEACHERS STATION. RE: CLASSROOM TEACHER STATION DETAIL.
- 5. RECEPTACLE FOR TV. VERIFY TV LOCATION AND HEIGHT PRIOR TO INSTALLATION. TV IS OWNER FURNISHED, CONTRACTOR INSTALLED. CONFIRM WITH OWNER FOR INSTALLATION OF FUTURE PROJECTOR OR FUTURE TV AT THIS LOCATION PRIOR TO ROUGH-IN. RE: CLASSROOM TV DETAIL.
- 6. QUAD RECEPTACLE FOR GYM TEACHER STATION TO PROJECTOR. RE: CLASSROOM TEACHER STATION DETAIL (SIMILAR).
- 7. COUNTER TOP FLIP UP RECEPTACLE. PROVIDE LEVITON MODEL 'PFGF1-MB' OR EQUAL FLIP UP BOX IN MILLWORK AT WALL. COORDINATE BOX LOCATION AND CONDUIT ROUTING WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN.
- 8. SWITCHES FOR MOTORIZED BACKSTOPS. SWITCHES FURNISHED WITH THE BACKBOARD ASSEMBLIES. INSTALLED BY THE ELECTRICAL CONTRACTOR. PROVIDE CONDUIT, BOXES, AND CONDUCTORS AS REQUIRED. COORDINATE REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- 9. PROJECTOR SCREEN MOTOR AND RAISE/LOWER SWITCH. COORDINATE CONNECTION REQUIREMENTS AND HEIGHT WITH SCREEN INSTALLER/MANUFACTURER PRIOR TO ROUGH-IN.
- 10. RECEPTACLE FOR PROJECTOR MOUNTED AT STRUCTURE. COORDINATE CONNECTION REQUIREMENTS AND LOCATION WITH PROJECTOR INSTALLER PRIOR TO ROUGH-IN.
- 11. DEDICATED RECEPTACLE FOR SOUND SYSTEM HEAD-END UNIT. RECEPTACLE TO BE MOUNTED IN CABINET. COORDINATE LOCATION AND MOUNTING HEIGHT WITH SOUND SYSTEM INSTALLER PRIOR TO ROUGH-IN.
- 12. CONNECTION FOR FUTURE SCOREBOARD. MOUNT JUNCTION BOX AT 15'-0" AFF WITH BLANK FACEPLATE. PROVIDE CONDUIT, BOXES AND CONDUCTORS REQUIRED FOR A COMPLETE INSTALLATION. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. RE: ARCHITECTURAL ELEVATIONS.
- 13. PROVIDE FLEXIBLE CONNECTION BETWEEN WALL AND RECEPTACLE.
- 14. RECEPTACLE TO BE MOUNTED IN THE FACE OF THE BLEACHERS. COORDINATE DEVICE LOCATION WITH ARCHITECT AND BLEACHER PROVIDER PRIOR TO ROUGH-IN.
- 15. PROVIDE JUNCTION BOX FOR DOOR SECURITY POWER. PROVIDE BOXES AND CONDUIT FOR FUTURE SECURITY CONDUCTORS. VERIFY ALL REQUIREMENTS WITH DOOR SECURITY EQUIPMENT PROVIDER PRIOR TO ROUGH-IN. RE: DOOR ACCESS CONTROL DETAIL.



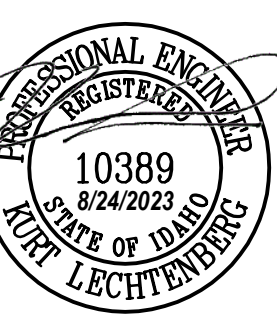
Power Plan - Area 'C'
Scale: 1/8" = 1'-0"



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Revisions	Date
Description Addendum #1	05/11/2023

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600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
LKV PROJECT #:
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Design Development

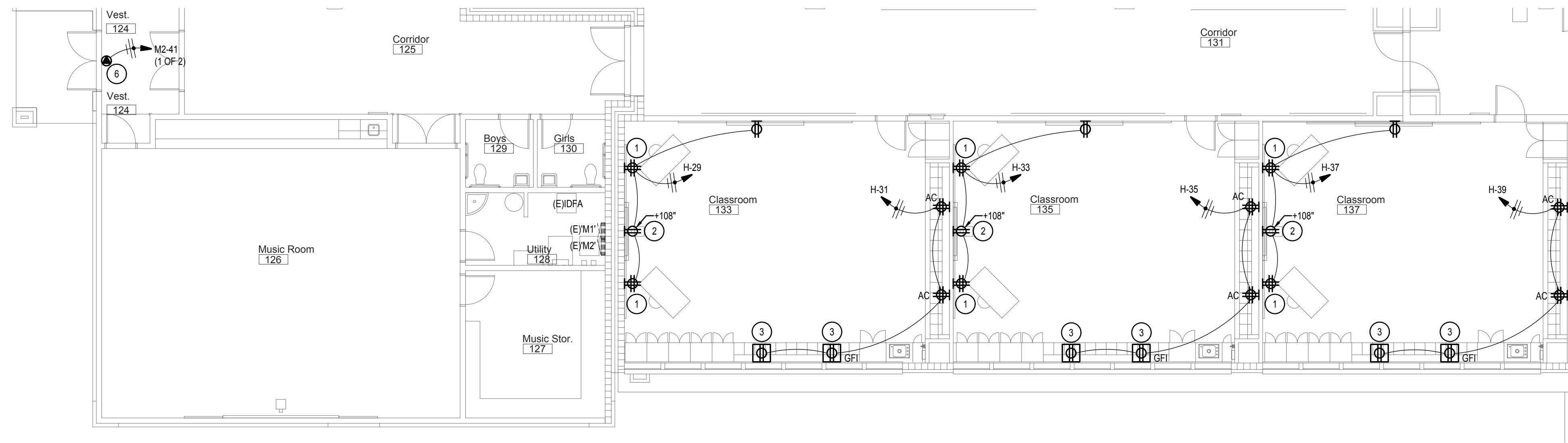
DRAWING NO.

E-6.3
POWER PLAN - AREA 'C'

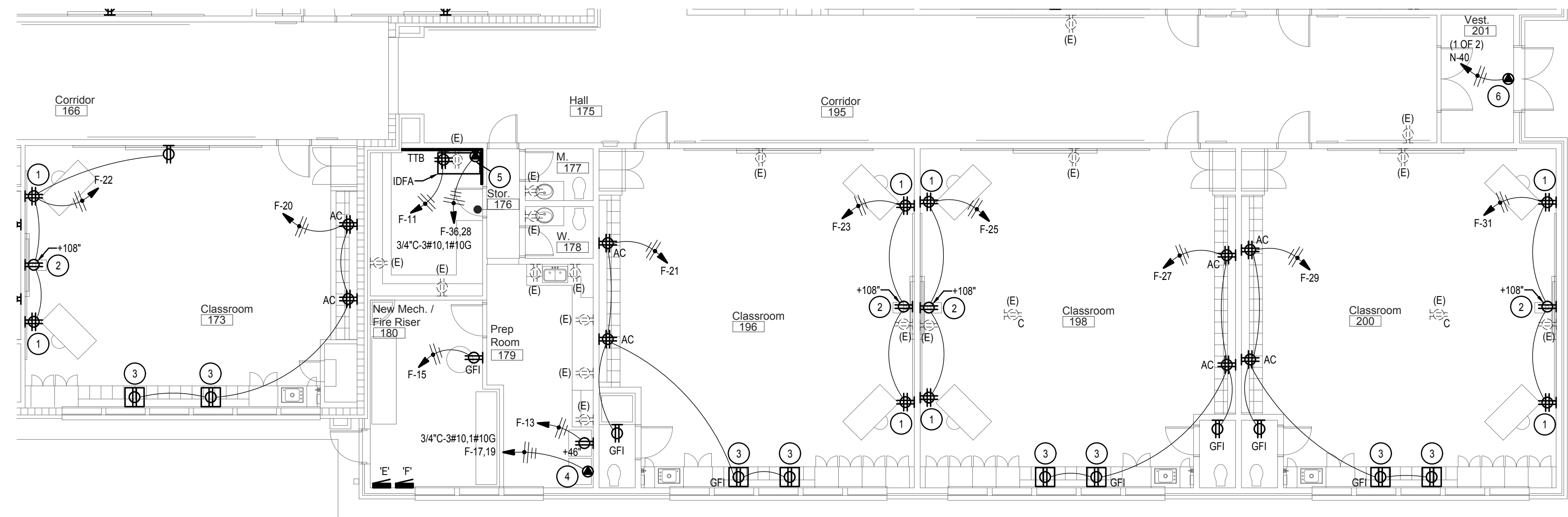
ALL NON-LOCKING 120-V, 15 AND 10-AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES PER NEC 406.12

KEYED NOTES:

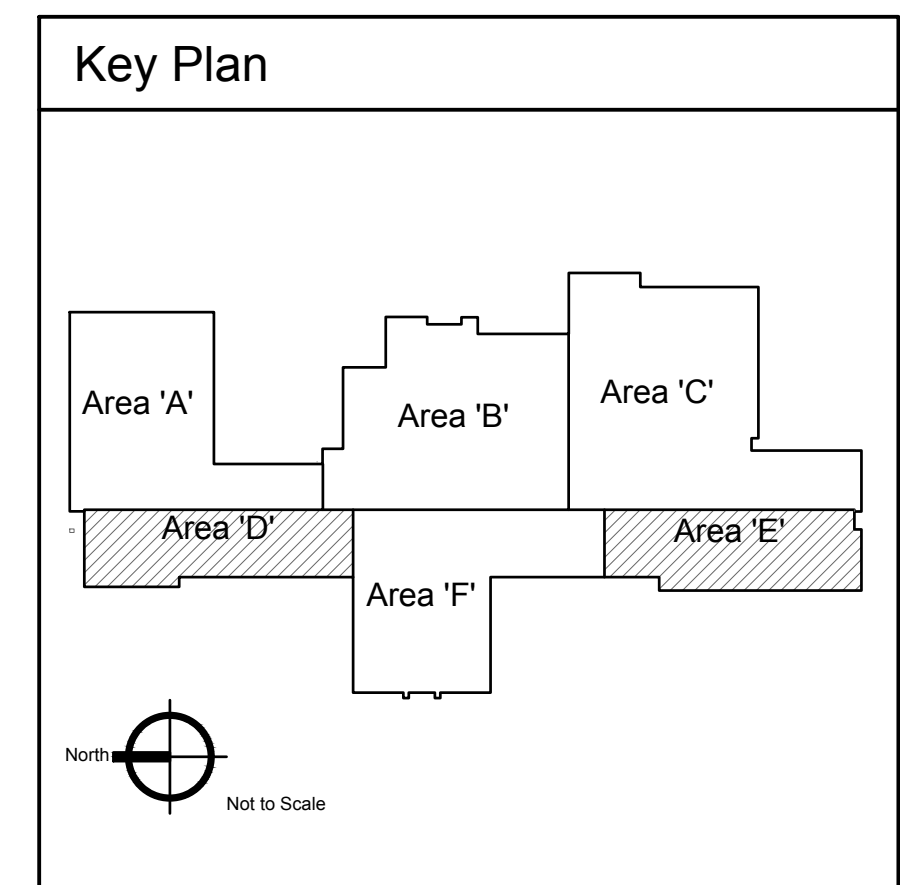
- # SYMBOL USED FOR NOTE CALLOUT.
- 1. RECEPTACLE FOR TEACHERS STATION. RE: CLASSROOM TEACHER STATION DETAIL.
- 2. RECEPTACLE FOR SHORT THROW PROJECTOR. VERIFY PROJECTOR HEIGHT PRIOR TO INSTALLATION. PROJECTOR IS OWNER FURNISHED. CONTRACTOR INSTALLED. CONFIRM WITH OWNER FOR INSTALLATION OF FUTURE PROJECTOR OR FUTURE TV AT THIS LOCATION PRIOR TO ROUGH-IN. RE: CLASSROOM PROJECTOR DETAIL.
- 3. COUNTER TOP FLIP UP RECEPTACLE. PROVIDE LEVITON MODEL PFGF1-MB OR EQUAL FLIP UP BOX IN MILLWORK. COORDINATE BOX LOCATION AND CONDUIT ROUTING WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN.
- 4. CONNECTION FOR DRYER, MOUNT AT +46" AFF.
- 5. CONNECTION FOR SERVER EQUIPMENT. PROVIDE L6-30R RECEPTACLE. VERIFY CONNECTION REQUIREMENTS AND LOCATION PRIOR TO ROUGH-IN.
- 6. PROVIDE JUNCTION BOX FOR DOOR SECURITY POWER. PROVIDE BOXES AND CONDUIT FOR FUTURE SECURITY CONDUCTORS. VERIFY ALL REQUIREMENTS WITH DOOR SECURITY EQUIPMENT PROVIDER PRIOR TO ROUGH-IN. RE: DOOR ACCESS CONTROL DETAIL.



1 Power Plan - Area 'D'
Scale: 1/8" = 1'-0"



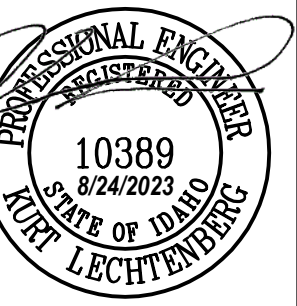
2 Power Plan - Area 'E'
Scale: 1/8" = 1'-0"



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CHECKED BY: KL

Design Development

DRAWING NO.

E-6.4

POWER PLAN - AREA 'D'
AND 'E'

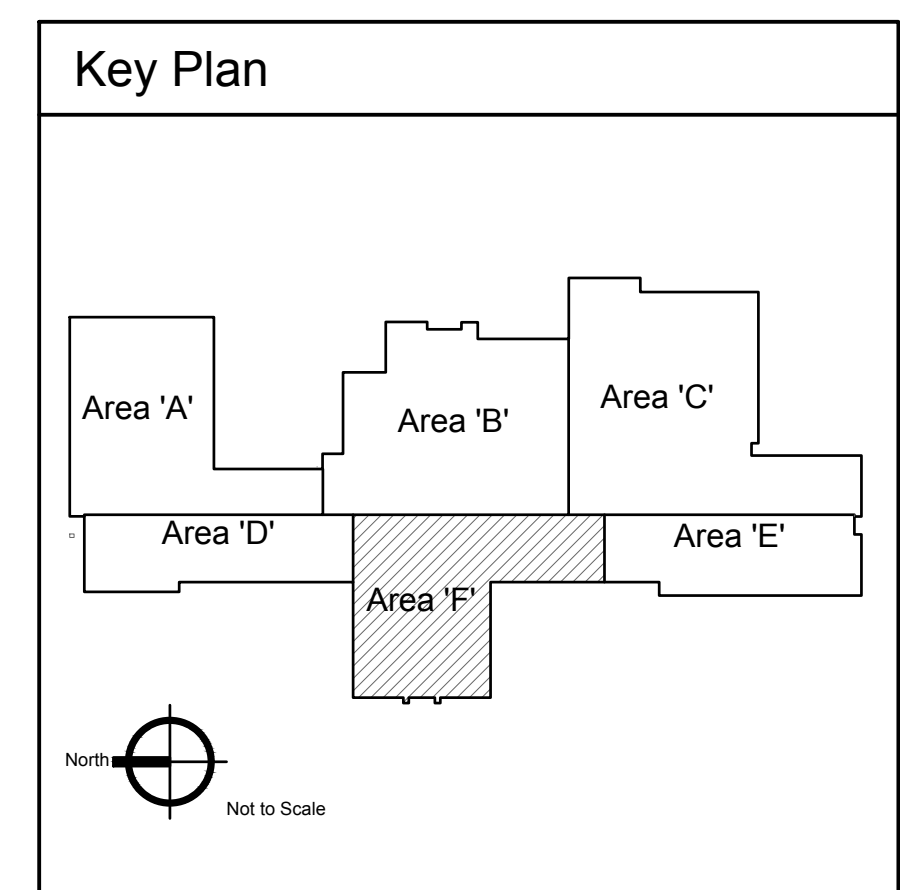
ALL NON-LOCKING 120-V, 15 AND 10-AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES PER NEC 406.12

KEYED NOTES:

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. NEW DUPLEX RECEPTACLE MOUNTED UNDER DESK. COORDINATE BOX LOCATION AND CONDUIT ROUTING WITH DESK INSTALLER PRIOR TO ROUGH-IN.
- 2. NEW QUAD RECEPTACLE MOUNTED UNDER DESK. COORDINATE BOX LOCATION AND CONDUIT ROUTING WITH DESK INSTALLER PRIOR TO ROUGH-IN.
- 3. NEW RECEPTACLE MOUNTED UNDER DESK. COORDINATE BOX LOCATION AND CABLE ROUTING WITH DESK INSTALLER PRIOR TO ROUGH-IN.
- 4. UTILIZE EXISTING WALL MOUNTED, DUAL CHANNEL RACEWAY TO RUN NEW CIRCUITS TO NEW COMPUTER DESKS. PROVIDE JUNCTION BOX AT EXISTING RACEWAY AND COORDINATE WITH DESK INSTALLER TO RUN MC-CABLE FROM NEW J-BOX TO TO EACH RECEPTACLE LOCATION AS NEEDED UNDER DESKS. SURFACE MOUNT BACKBOX AND RECEPTACLE, QUANTITY AS REQUIRED, AT REAR OF DESK.
- 5. RECEPTACLE FOR TEACHERS STATION. RE: CLASSROOM TEACHER STATION DETAIL.
- 6. RECEPTACLE FOR SHORT THROW PROJECTOR. VERIFY PROJECTOR HEIGHT PRIOR TO INSTALLATION. PROJECTOR IS OWNER FURNISHED, CONTRACTOR INSTALLED. CONFIRM WITH OWNER FOR INSTALLATION OF FUTURE PROJECTOR OR FUTURE TV AT THIS LOCATION PRIOR TO ROUGH-IN. RE: CLASSROOM PROJECTOR DETAIL.
- 7. COUNTER TOP FLIP UP RECEPTACLE. PROVIDE LEVITON MODEL PFGF1-MB OR EQUAL FLIP UP BOX IN MILLWORK. COORDINATE BOX LOCATION AND CONDUIT ROUTING WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN.
- 8. CONNECTION FOR ELECTRONIC DOOR LOCKING SYSTEM. COORDINATE CONNECTION REQUIREMENTS WITH DOOR HARDWARE SUPPLIER. STUB (2 3/4" CONDUITS INTO THE DOOR FRAME FOR CABLING. PROVIDE AND INSTALL ALL CONDUIT, BOXES, AND CONDUCTORS REQUIRED FOR A COMPLETE INSTALLATION.
- 9. CONTROL BUTTON FOR CALM ROOM DOOR. PROVIDE ALL REQUIRED CONDUITS AND CONDUCTORS REQUIRED FOR A COMPLETE INSTALLATION.
- 10. RECEPTACLE FOR TV. VERIFY TV LOCATION AND HEIGHT PRIOR TO INSTALLATION. TV IS OWNER FURNISHED, CONTRACTOR INSTALLED. EXTEND RACEWAY AND CONDUCTORS FROM EXISTING DUAL CHANNEL RACEWAY BELOW TO NEW TV RECEPTACLE.
- 11. PROVIDE JUNCTION BOX FOR DOOR SECURITY POWER. PROVIDE BOXES AND CONDUIT FOR FUTURE SECURITY CONDUCTORS. VERIFY ALL REQUIREMENTS WITH DOOR SECURITY EQUIPMENT PROVIDER PRIOR TO ROUGH-IN. RE: DOOR ACCESS CONTROL DETAIL.



1 Power Plan - Area 'F'
Scale: 1/8" = 1'-0"



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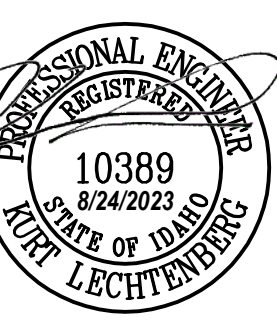
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Design Development

DRAWING NO.

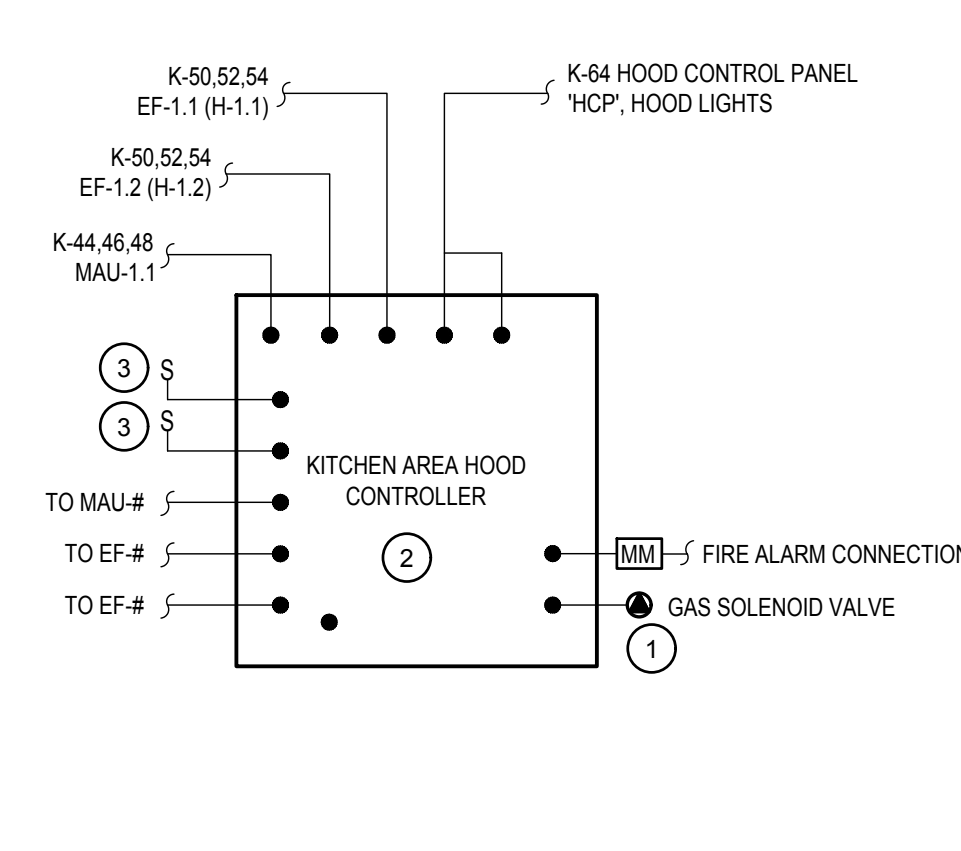
E-6.5

POWER PLAN - AREA 'F'

KEYED NOTES:

- ① SYMBOL USED FOR NOTE CALLOUT.
- 1. 2-POLE PILOT SWITCH FOR DISHWASHER HOOD FAN SWITCH LIT IN ON POSITION. ROUTE TO DISHWASHER HOOD FAN LOCATED ON ROOF. VERIFY SWITCH LOCATION PRIOR TO ROUGH-IN. LABEL SWITCH "DISHWASHER EXHAUST". RE: ELECTRICAL ROOF PLAN - AREA 'B'.
- 2. CONNECTION FOR COOLER/FREEZER FAN COILS. COORDINATE CONNECTION REQUIREMENTS WITH EQUIPMENT SUPPLIER/INSTALLER PRIOR TO ROUGH-IN. PROVIDE DISCONNECTING MEANS AS REQUIRED.
- 3. PROVIDE 3/4" CONDUIT AND CONTROL CONDUCTORS AS NECESSARY BETWEEN THE INTERIOR AND EXTERIOR MECHANICAL UNITS. COORDINATE WITH MECHANICAL CONTRACTOR AND KITCHEN WALK-IN COOLER/FREEZER SUPPLIER.
- 4. PROVIDE LOCKOUT BREAKER IN PANEL AT POSITION INDICATED.
- 5. FURNISH AND INSTALL HEAT TAPE FOR WALK-IN DOOR AND CONDENSATE LINE DEFROST. COORDINATE CONNECTION AND HEAT TAPE REQUIREMENTS FOR BOTH FREEZER AND COOLER WITH WALK-IN SUPPLIER/INSTALLER PRIOR TO ROUGH-IN.
- 6. PROVIDE GFEP BREAKER IN PANEL FOR EQUIPMENT PROTECTION (30mA).
- 7. PROVIDE CONNECTION FOR MOTORIZED ROLLUP DOOR AND CONTROL SWITCH. VERIFY SWITCH LOCATION PRIOR TO ROUGH-IN.
- 8. JUNCTION BOX FOR HOOD LIGHTS AND FAN CONTROLS MOUNTED AT 48" AFF. VERIFY CONTROL INTERFACE LOCATION AND BOX REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- 9. CONNECTION FOR HOOD CONTROL PANEL AND LIGHTS. COORDINATE CONNECTION LOCATIONS WITH HOOD INSTALLER PRIOR TO ROUGH-IN. RE: KITCHEN HOOD CONTACTOR CABINET DETAIL. GROUND FAULT RELAY CABINET 'GFR' TO BE FLUSH MOUNTED NEXT TO PANEL 'K'.
- 10. CONNECT WATER HEATER AND ALL ASSOCIATED DEVICES AND EQUIPMENT. COORDINATE WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- 11. GROUND FAULT RELAY CABINET 'GFR'. CABINET TO BE LOCATED ABOVE ACCESSIBLE CEILING NEAR PANEL 'K'. RE: GROUND FAULT RELAY CABINET DETAIL.
- 12. ABOVE COUNTER RECEPTACLE. COORDINATE HEIGHT WITH COUNTER SUPPLIER TO ENSURE RECEPTACLE IS ABOVE STAINLESS BACKSPASH PRIOR TO ROUGH-IN.
- 13. CONNECTION FOR FOOD WASTE DISPOSAL. PROVIDE WITH 'INSINERATOR' CC-101 CONTROLLER. COORDINATE WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN AND ORDERING CONTROL BOX BASED ON WATER TIMER SELECTION CIRCUIT.
- 14. DISCONNECTING MEANS TO BE LOCATED BELOW THE COUNTER. COORDINATE LOCATION TO ENSURE ACCESSIBILITY.
- 15. ROUTE CIRCUIT THROUGH HOOD CONTACTOR CABINET 'HCC'. RE: HOOD CONTACTOR CABINET DETAIL.
- 16. ROUTE CIRCUIT THROUGH THE GROUND FAULT RELAY PANEL 'GFR'. RE: GROUND FAULT RELAY CABINET DETAIL.
- 17. DOOR CHIME AND PUSH BUTTON. PROVIDE DOOR CHIME, TRANSFORMER AND EXTERIOR RATED PUSH BUTTON. PUSH BUTTON TO BE MOUNTED AT 48" AFF. PROVIDE ALL CONDUIT, JUNCTION BOXES AND CONDUCTORS AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM.

KITCHEN EQUIPMENT SCHEDULE				
ITEM #	DESCRIPTION	MANUFACTURER	CONNECTION TYPE	ELECTRICAL DATA
K1	DISHWASHER	ADS	DIRECT CONNECT	208V/3P
K1.2	DISHWASHER BOOSTER (EXTERNAL)	ADS	DIRECT CONNECT	208V/3P
K3	GARBAGE DISPOSAL	HOBART	DIRECT CONNECT	208V/2P, 6A
K5	HOT FOOD CABINET	METRO	PLUG	120V/1P, 2KW
K5	HOT FOOD CABINET	METRO	PLUG	120V/1P, 2KW
K6	REACH-IN FRIDGE	BEVERAGE-AIR	PLUG	120V/1P
K7	STEAM DROP-IN	TABCO	PLUG	208V/2P, 1.6KW
K7	STEAM DROP-IN	TABCO	PLUG	208V/2P, 1.6KW
K8	ICE MAKER	MANITOWOC	PLUG	120V/1P
K9	CONVECTION OVEN (GAS DBL STACK)	VULCAN	PLUG	120V/1P, 7.7A
K9	CONVECTION OVEN (GAS DBL STACK)	VULCAN	PLUG	120V/1P, 7.7A
K10	30 QUART MIXER	HOBART	PLUG	120V/1P, 9.5A
K11	60 QUART MIXER	HOBART	DIRECT CONNECT	208V/3P, 10A
K16	WALK-IN COOLER (CONDENSER)		DIRECT CONNECT	208V/3P
K16a	WALK-IN COOLER (FAN COIL)		DIRECT CONNECT	120V/1P
K17	WALK-IN FREEZER (CONDENSER)		DIRECT CONNECT	208V/3P
K17a	WALK-IN FREEZER (FAN COIL)		DIRECT CONNECT	208V/2P
K18	COMBI OVEN (GAS SINGLE STACK)	RATIONAL	PLUG	120V/1P, 1.3KW
K18	COMBI OVEN (GAS SINGLE STACK)	RATIONAL	PLUG	120V/1P, 1.3KW
K19	STEAM KETTLE (GAS)	CLEVELAND	PLUG	120V/1P, 5A
K19	STEAM KETTLE (GAS)	CLEVELAND	PLUG	120V/1P, 5A
K26	FOOD SLICER	HOBART	PLUG	120V/1P
K37	ABOVE COUNTER ICE MACHINE	MANITOWOC	PLUG	120V/1P
KA	OWNER FURNISHED MILK COOLER		PLUG	120V/1P
KB	OWNER FURNISHED POS MACHINE		PLUG	120V/1P

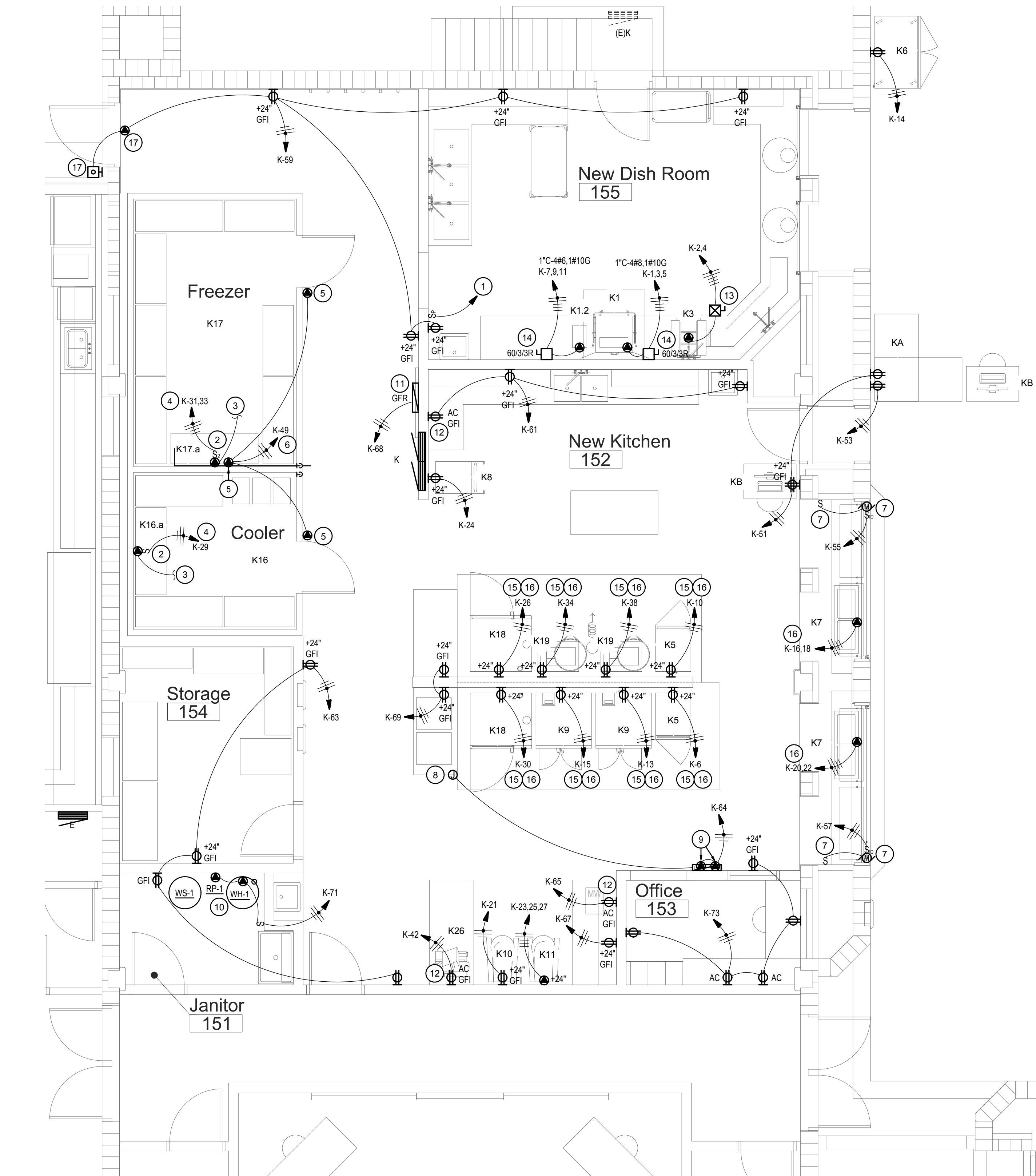


DETAIL KEYED NOTES:

- ① SYMBOL USED FOR NOTE CALLOUT.
- 1. PROVIDE CONNECTION TO GAS SOLENOID VALVE. VALVE SHALL CLOSE TO ELIMINATE SUPPLY OF GAS UPON ACTIVATION OF ANSUL SYSTEM. COORDINATE VALVE LOCATION WITH PLUMBING CONTRACTOR.
- 2. REMOTE HOOD CONTROL PANEL 'HCP' WITH REMOTE MOUNTED SWITCHES INSTALLED BY ELECTRICAL CONTRACTOR FOR HOOD LIGHTS AND EXHAUST FAN CONTROL. CONTROL PANEL PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. FIELD VERIFY LOCATION PRIOR TO ROUGH-IN. RE: ENLARGED KITCHEN PLAN.
- 3. SWITCHES FOR HOOD LIGHTS AND HOOD EXHAUST FAN CONTROL TO BE REMOTE MOUNTED BY ELECTRICAL CONTRACTOR. VERIFY SWITCH TYPE AND LOCATION WITH HOOD INSTALLER PRIOR TO ROUGH-IN.

KITCHEN HOOD CONTACTOR PANEL DETAIL

NTS



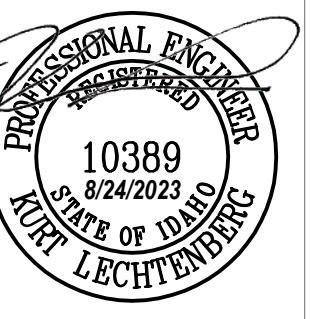
1 Electrical Enlarged Kitchen Plan - Area 'F'
Scale: 1/4" = 1'-0"



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Revisions	Date	Description
#	05/11/2023	Addendum #1

Jefferson Elementary School
Addition and Remodel

600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
LKV PROJECT #: -
REVISIONS:

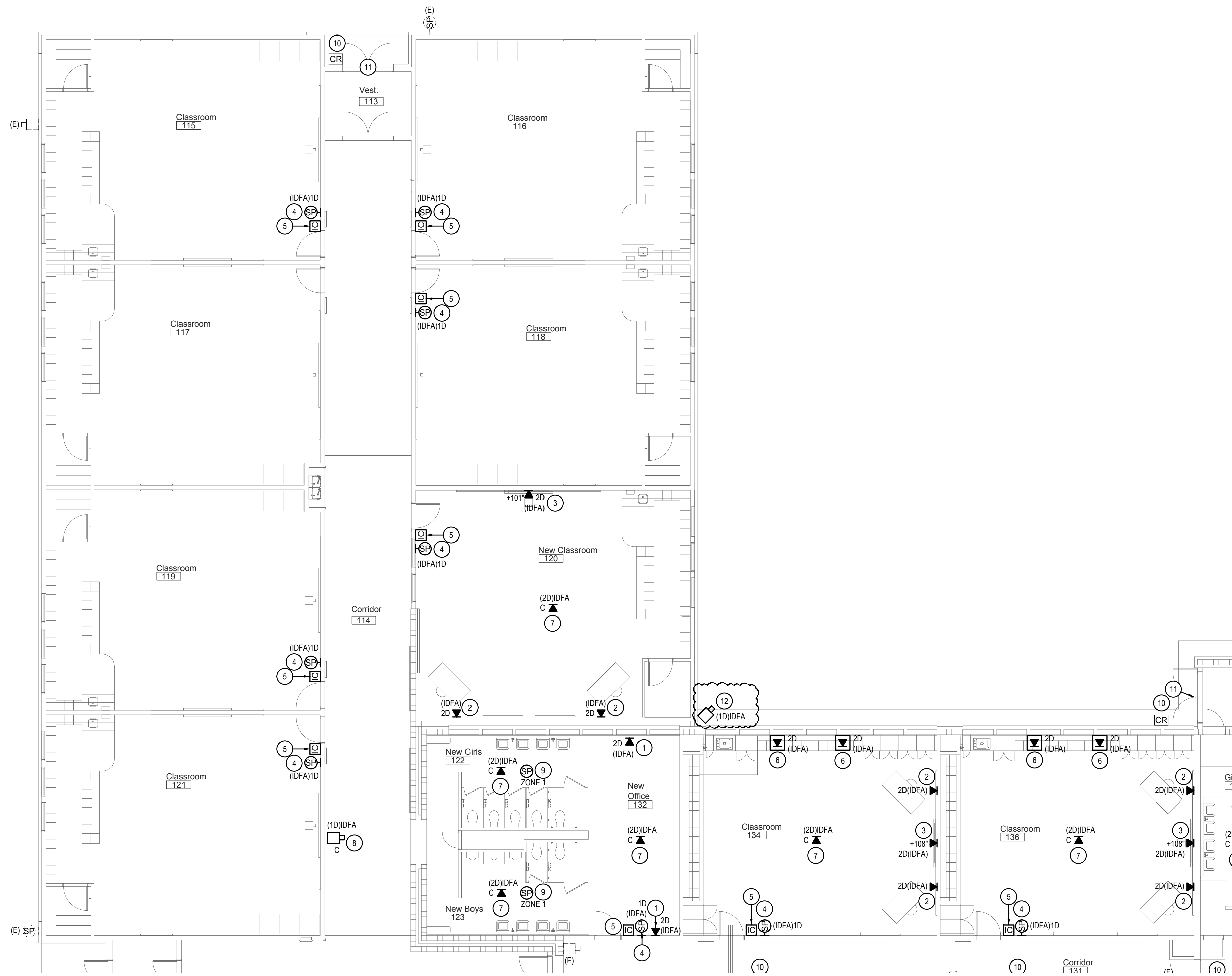
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Design Development

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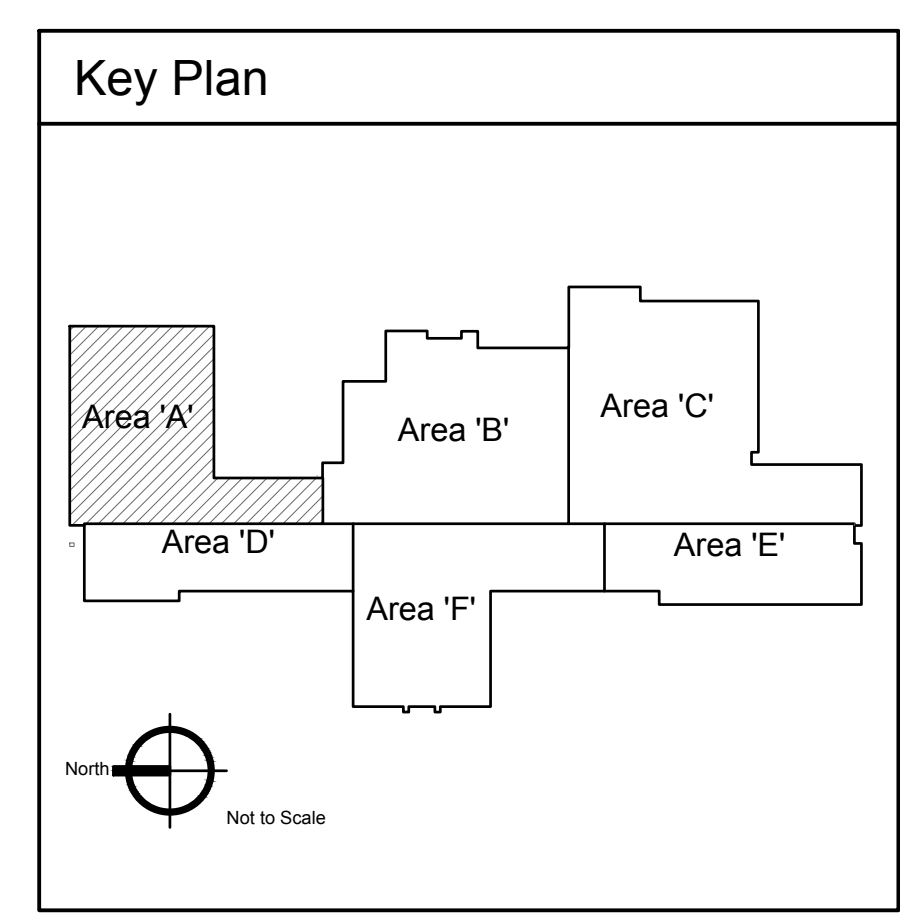
ELECTRICAL ENLARGED
KITCHEN PLAN - AREA 'F'



1 Special Systems Plan - Area 'A'
Scale: 1/8" = 1'-0"

KEYED NOTES:

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. PROVIDE 1" CONDUIT FROM DATA OUTLET TO VOID ABOVE ACCESSIBLE CEILING. PROVIDE DATA CABLING, QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING.
- 2. TEACHERS DESK DATA AND AV CONNECTION POINT. PROVIDE JUNCTION BOX AND ROUTE 1-1/4" CONDUIT UP WALL TO ABOVE ACCESSIBLE CEILING. PROVIDE USB AND HDMI CABLING, AND FACEPLATE PER SPECIFICATION'S REQUIREMENTS. PROVIDE DATA CABLING, QUANTITY AS INDICATED, FROM DATA OUTLET, TO THE DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING. RE-CLASSROOM TEACHER STATION DETAIL.
- 3. CLASSROOM PROJECTOR DATA AND AV CONNECTION POINT. PROVIDE JUNCTION BOX AT HEIGHT INDICATED AND ROUTE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING AND TO FUTURE TV LOCATION. PROVIDE DATA CABLING, QUANTITY AS INDICATED FROM DATA OUTLET AND FACEPLATE PER SPECIFICATION'S REQUIREMENTS. TO THE DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING RE-CLASSROOM PROJECTOR DETAIL.
- 4. PROVIDE SURFACE MOUNTED IP CLOCK AND SPEAKER COMBINATION UNIT FOR INTERCOM SYSTEM AT +8'-0" UNO. PROVIDE 2-GANG MUD-RING AND STUB 1" CONDUIT FROM MUD-RING TO THE VOID ABOVE THE ACCESSIBLE CEILING. PROVIDE DATA CABLE FROM COMBO UNIT TO THE DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING. VERIFY COMBO UNIT LOCATION PRIOR TO ROUGH-IN. PROVIDE MATERIALS AND LABOR REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
- 5. TWO WAY COMMUNICATION AND EMERGENCY CALL BUTTON BETWEEN CLASSROOM AND ADMIN AREA. PROVIDE CALL BUTTON AND CABLING REQUIRED COMPATIBLE WITH INTERCOM SYSTEM. COORDINATE SYSTEM REQUIREMENTS WITH INTERCOM SYSTEM INSTALLER.
- 6. COUNTER TOP FLIP UP DATA RECEPTACLE. PROVIDE LEVITON MODEL "PFGF-1MB OR EQUAL FLIP UP BOX IN MILLWORK AT WALL. PROVIDE PORTS AND CABLING, QUANTITY AS INDICATED, FROM DATA OUTLET TO DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING. COORDINATE BOX LOCATION AND CONDUIT ROUTING WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN.
- 7. CEILING MOUNTED WIRELESS ACCESS POINT (WAP). PROVIDE SURFACE MOUNTED DATA JACK IN CEILING WITH (2) DATA PORTS. PROVIDE DATA CABLING, QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED AND ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING. THE WAP DEVICE WILL BE FURNISHED AND CALIBRATED BY THE SCHOOL DISTRICT AND INSTALLED BY THE ELECTRICAL CONTRACTOR PER THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
- 8. INTERIOR SECURITY CAMERA FURNISHED AND INSTALLED BY THE OWNER. CONTRACTOR TO PROVIDE SURFACE MOUNTED DATA BOX (BISCUIT), WITH QUANTITY OF DATA PORTS AS INDICATED, ABOVE THE ACCESSIBLE CEILING OR AT THE BUILDING STRUCTURE FOR SECURITY CAMERA CONNECTION. COORDINATE THE DATA OUTLET AND CAMERA LOCATION WITH THE SCHOOL DISTRICT PRIOR TO INSTALLATION. PROVIDE DATA CABLES, QUANTITY AS INDICATED, TO A DEDICATED, POE, PATCH PANEL IN DATA RACK INDICATED.
- 9. ANALOG INTERCOM ZONE SPEAKER TO BE CONNECTED TO THE INTERCOM SYSTEM VIA ZONE CONTROLLER. CONNECT TO PAGING ZONE INDICATED. PROVIDE SPEAKER, BACKBOX, AND CABLING. PROVIDE ZONE CONTROL AMPLIFIER IN THE 'MDF' DATA RACK. OWNER TO PROVIDE DATA RACK SWITCHES IN 'MDF' DATA RACK.
- 10. PROVIDE JUNCTION BOX FOR CARD READER AT +46" AFG AND 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE CABLING PER SPECIFICATION REQUIREMENTS. REFER TO DOOR ACCESS CONTROL DETAIL.
- 11. STUB (3) 3/4" CONDUITS FROM DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING. STUB ONE CONDUIT FROM TOP OF DOOR FRAME ON LATCH SIDE AND ONE INTO DOOR FRAME AT MIDDLE HINGES ON EACH SIDE OF DOUBLE DOOR. PROVIDE CABLING TO THE SECURITY AND ACCESS CONTROL HEAD-END EQUIPMENT. VERIFY REQUIREMENTS WITH THE OWNER'S SECURITY CONTRACTOR PRIOR TO ROUGH-IN.
- 12. EXTERIOR, WALL MOUNTED, SECURITY CAMERA FURNISHED AND INSTALLED BY THE OWNER. CONTRACTOR TO PROVIDE A JUNCTION BOX AT 12'-0" AFG AND 3/4" CONDUIT FROM THE JUNCTION BOX TO THE NEAREST ACCESSIBLE CEILING SPACE. PROVIDE SURFACE MOUNTED DATA BOX (BISCUIT) WITH QUANTITY OF DATA PORTS AS INDICATED, IN THE JUNCTION BOX. COORDINATE THE DATA OUTLET AND CAMERA LOCATION WITH THE SCHOOL DISTRICT PRIOR TO INSTALLATION. PROVIDE DATA CABLES, QUANTITY AS INDICATED, TO A DEDICATED, POE, PATCH PANEL IN THE DATA RACK INDICATED.



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Revisions	Date
Description Addendum #1	05/11/2023
#	

**Jefferson Elementary School
Addition and Remodel**
600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
LKV PROJECT #: -
REVISIONS:

DRAWN BY: AN
CHECKED BY: KL

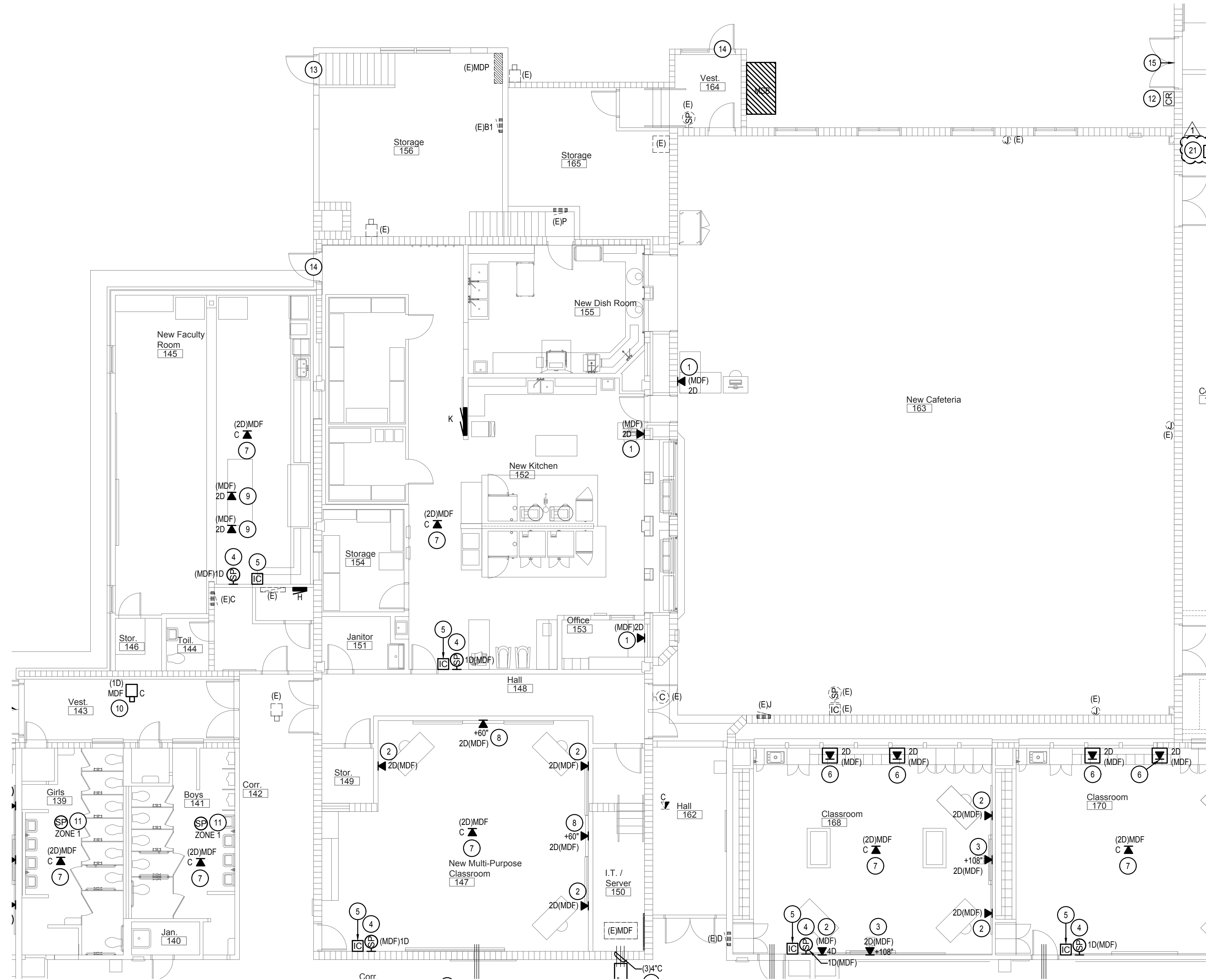
Design Development

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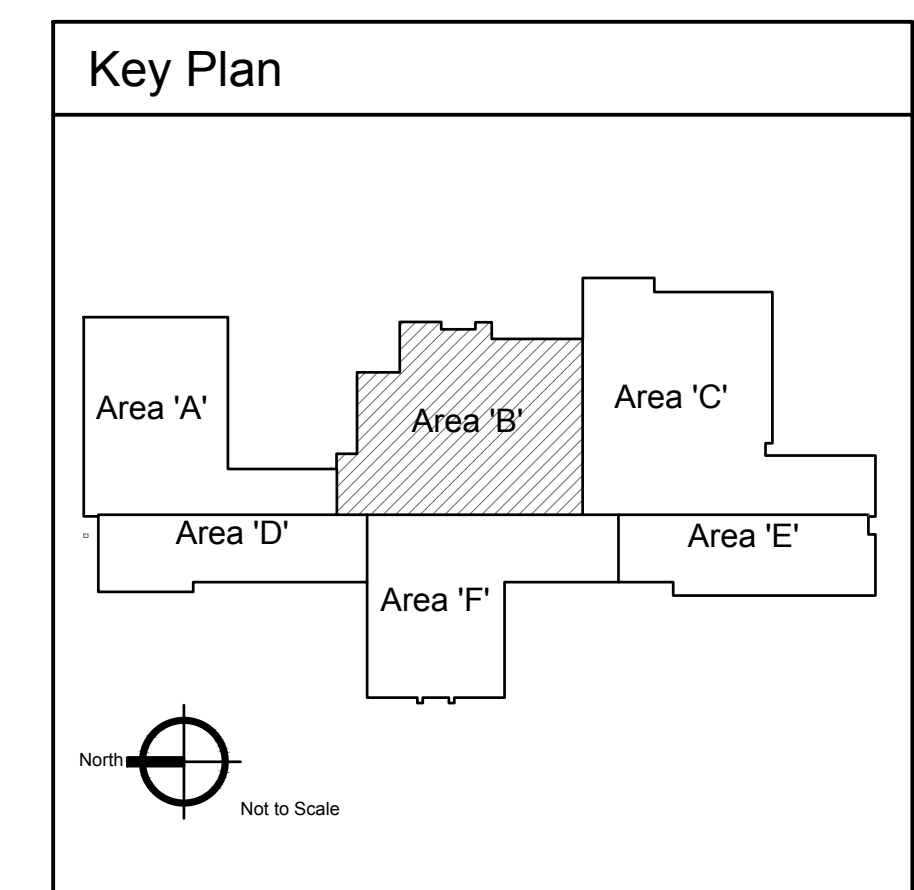
E-7.1
SPECIAL SYSTEMS
PLAN - AREA 'A'

KEYED NOTES:

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. PROVIDE 1" CONDUIT FROM DATA OUTLET TO VOID ABOVE ACCESSIBLE CEILING. PROVIDE DATA CABLING. QUANTITY AS INDICATED. FROM DATA OUTLET TO THE DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING.
- 2. TEACHERS DESK DATA AND AV CONNECTION POINT. PROVIDE JUNCTION BOX AND ROUTE 1-1/4" CONDUIT UP WALL TO ABOVE ACCESSIBLE CEILING. PROVIDE USB AND HDMI CABLING, AND FACEPLATE PER SPECIFICATION'S REQUIREMENTS. PROVIDE DATA CABLING. QUANTITY AS INDICATED. FROM DATA OUTLET, TO THE DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING. RE-CLASSROOM TEACHER STATION DETAIL.
- 3. CLASSROOM PROJECTOR DATA AND AV CONNECTION POINT. PROVIDE JUNCTION BOX AT HEIGHT INDICATED AND ROUTE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING AND TO FUTURE TV LOCATION. PROVIDE DATA CABLING. QUANTITY AS INDICATED FROM DATA OUTLET AND FACEPLATE PER SPECIFICATION'S REQUIREMENTS. TO THE DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING RE-CLASSROOM PROJECTOR DETAIL.
- 4. PROVIDE SURFACE MOUNTED IP CLOCK AND SPEAKER COMBINATION UNIT FOR INTERCOM SYSTEM AT +8'-0" UNO. PROVIDE 2-GANG MUD-RING AND STUB 1" CONDUIT FROM MUD-RING TO THE VOID ABOVE THE ACCESSIBLE CEILING. PROVIDE DATA CABLE FROM COMBO UNIT TO THE DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING. VERIFY COMBO UNIT LOCATION PRIOR TO ROUGH-IN. PROVIDE MATERIALS AND LABOR REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
- 5. TWO WAY COMMUNICATION AND EMERGENCY CALL BUTTON BETWEEN CLASSROOM AND ADMIN AREA. PROVIDE CALL BUTTON AND CABLING REQUIRED COMPATIBLE WITH INTERCOM SYSTEM. COORDINATE SYSTEM REQUIREMENTS WITH INTERCOM SYSTEM INSTALLER.
- 6. COUNTER TOP FLIP UP DATA RECEPTACLE. PROVIDE LEVITON MODEL "PFGF-MB OR EQUAL FLIP UP BOX IN MILLWORK AT WALL. PROVIDE PORTS AND CABLING. QUANTITY AS INDICATED. FROM DATA OUTLET TO DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING. COORDINATE BOX LOCATION AND CONDUIT ROUTING WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN.
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- 8. CLASSROOM TV DATA AND AV CONNECTION POINT. PROVIDE JUNCTION BOX AT HEIGHT INDICATED AND ROUTE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE DATA CABLING. QUANTITY AS INDICATED FROM DATA OUTLET AND FACEPLATE PER SPECIFICATION'S REQUIREMENTS. TO THE DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING. RE-CLASSROOM PROJECTOR DETAIL (SIMILAR).
- 9. DATA RECEPTACLE MOUNTED IN MILLWORK. COORDINATE BOX LOCATION AND CONDUIT ROUTING WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN. ROUTE 1" CONDUIT FROM MILLWORK, UNDERGROUND TO THE NEAREST FULL HEIGHT WALL WITH ACCESSIBLE CEILING. PROVIDE CABLING. QUANTITY AS INDICATED, FROM DATA OUTLET TO DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING. RE-ARCHITECTURAL MILLWORK ELEVATIONS.
- 10. INTERIOR SECURITY CAMERA FURNISHED AND INSTALLED BY THE OWNER. CONTRACTOR TO PROVIDE SURFACE MOUNTED DATA BOX (BISCUIT), WITH QUANTITY OF DATA PORTS AS INDICATED, ABOVE THE ACCESSIBLE CEILING OR AT THE BUILDING STRUCTURE FOR SECURITY CAMERA CONNECTION. COORDINATE THE DATA OUTLET AND CAMERA LOCATION WITH THE SCHOOL DISTRICT PRIOR TO INSTALLATION. PROVIDE DATA CABLES. QUANTITY AS INDICATED, TO A DEDICATED, POE, PATCH PANEL IN DATA RACK INDICATED.
- 11. ANALOG INTERCOM ZONE SPEAKER TO BE CONNECTED TO THE INTERCOM SYSTEM VIA ZONE CONTROLLER. CONNECT TO PAGING ZONE INDICATED. PROVIDE SPEAKER, BACKBOX, AND CABLING. PROVIDE ZONE CONTROL AMPLIFIER IN THE 'MDF' DATA RACK. OWNER TO PROVIDE DATA RACK SWITCHES IN 'MDF' DATA RACK.
- 12. PROVIDE JUNCTION BOX FOR CARD READER AT +46" AFG AND 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE CABLING PER SPECIFICATION REQUIREMENTS. REFER TO DOOR ACCESS CONTROL DETAIL.
- 13. STUB (1) 3/4" CONDUIT FROM THE DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING FOR DOOR ACCESS CONTROL CABLING. STUB ONE CONDUIT INTO THE TOP OF THE FRAME ON THE LATCH SIDE OF THE DOOR. PROVIDE CABLING TO THE SECURITY AND ACCESS CONTROL HEAD-END EQUIPMENT. VERIFY REQUIREMENTS WITH THE OWNER'S SECURITY CONTRACTOR PRIOR TO ROUGH-IN. RE: DOOR ACCESS CONTROL DETAIL.
- 14. STUB (2) 3/4" CONDUITS FROM DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING. STUB ONE CONDUIT FROM TOP OF DOOR FRAME ON LATCH SIDE AND ONE INTO DOOR FRAME AT MIDDLE HINGE OF DOOR. PROVIDE CABLING TO THE SECURITY AND ACCESS CONTROL HEAD-END EQUIPMENT. VERIFY REQUIREMENTS WITH THE OWNER'S SECURITY CONTRACTOR PRIOR TO ROUGH-IN.
- 15. STUB (3) 3/4" CONDUITS FROM DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING. STUB ONE CONDUIT FROM TOP OF DOOR FRAME ON LATCH SIDE AND ONE INTO DOOR FRAME AT MIDDLE HINGES ON EACH SIDE OF DOUBLE DOOR. PROVIDE CABLING TO THE SECURITY AND ACCESS CONTROL HEAD-END EQUIPMENT. VERIFY REQUIREMENTS WITH THE OWNER'S SECURITY CONTRACTOR PRIOR TO ROUGH-IN.



1 Special Systems Plan - Area 'B'
Scale: 1/8" = 1'-0"



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Revisions	Date
Description Addendum #1	05/11/2023

Jefferson Elementary School Addition and Remodel

600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
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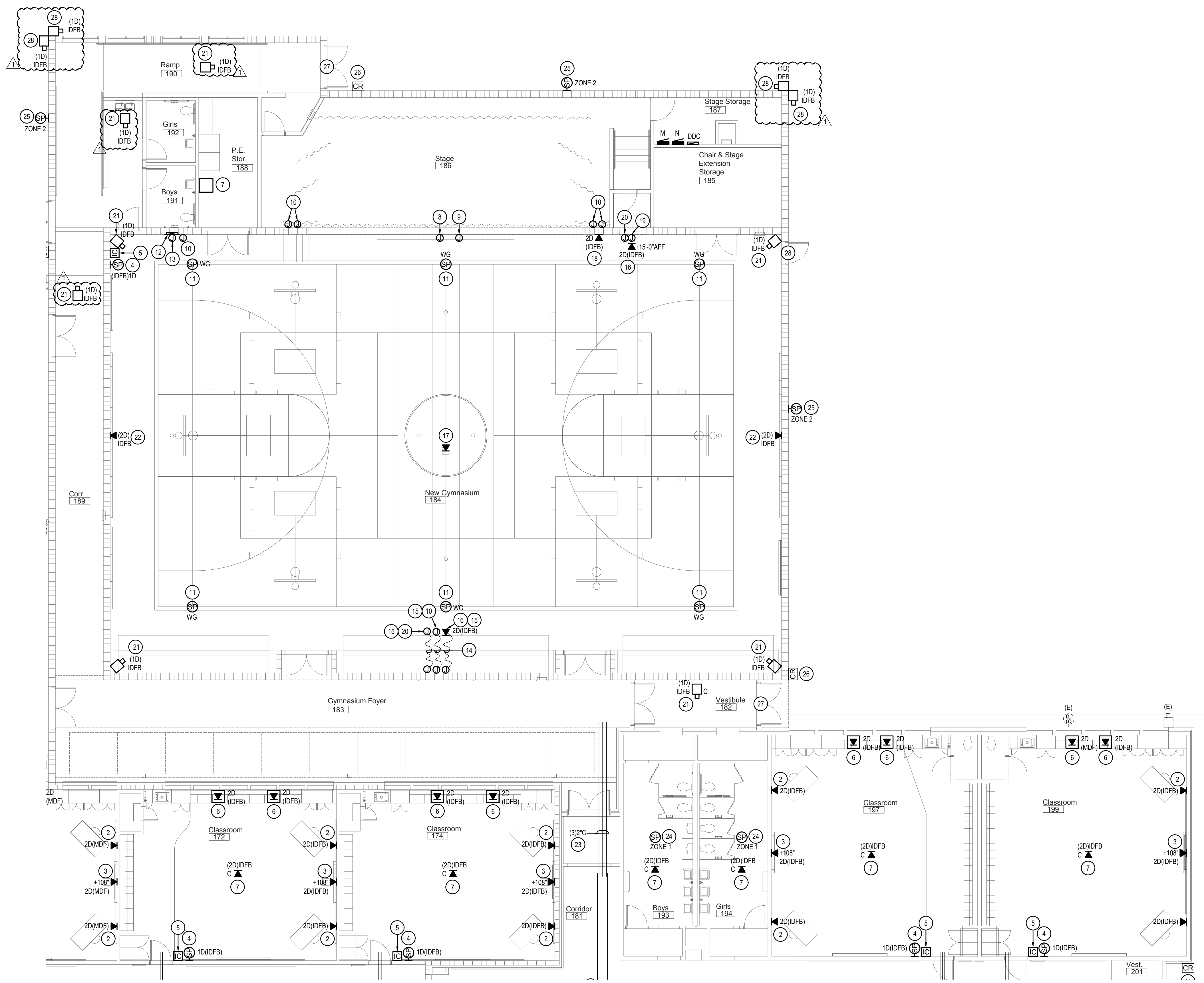
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Design Development

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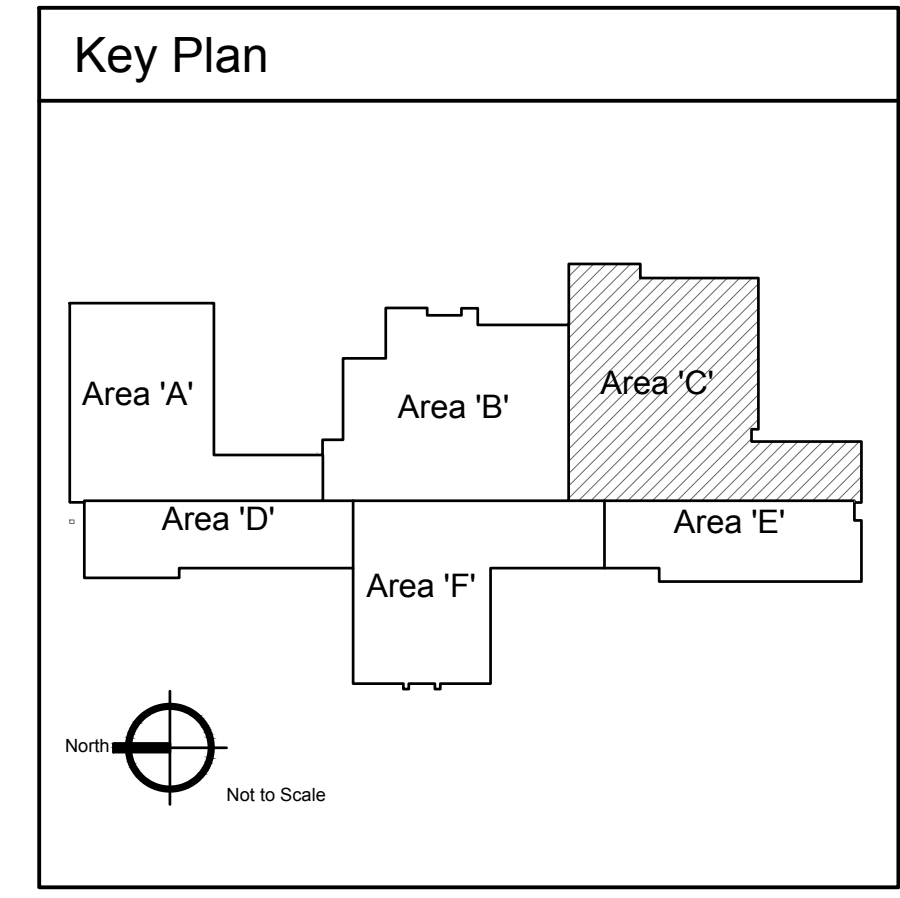
SPECIAL SYSTEMS
PLAN - AREA 'B'




KEYED NOTES:

SYMBOL USED FOR NOTE CALLOUT.


- PROVIDE 1" CONDUIT FROM DATA OUTLET TO VOID ABOVE ACCESSIBLE CEILING. PROVIDE DATA CABLING; QUANTITY AS INDICATED. FROM DATA OUTLET TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING.
- TEACHERS DESK DATA AND AV CONNECTION POINT. PROVIDE JUNCTION BOX AND ROUTE 1-1/4" CONDUIT UP WALL TO ABOVE ACCESSIBLE CEILING. PROVIDE USB AND HDMI CABLING, AND FACEPLATE PER SPECIFICATION'S REQUIREMENTS. PROVIDE DATA CABLING; QUANTITY AS INDICATED. FROM DATA OUTLET, TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING. RE CLASSROOM TEACHER STATION DETAIL.
- CLASSROOM PROJECTOR DATA AND AV CONNECTION POINT. PROVIDE JUNCTION BOX AT HEIGHT INDICATED AND ROUTE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING AND TO FUTURE TV LOCATION. PROVIDE DATA CABLING; QUANTITY AS INDICATED FROM DATA OUTLET AND FACEPLATE PER SPECIFICATION'S REQUIREMENTS, TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING RE CLASSROOM PROJECTOR DETAIL.
- PROVIDE SURFACE MOUNTED IP CLOCK AND SPEAKER COMBINATION UNIT FOR INTERCOM SYSTEM AT +8'-0" UNO. PROVIDE 2-GANG MUD-RING AND STUB 1" CONDUIT FROM MUD-RING TO THE VOID ABOVE THE ACCESSIBLE CEILING. PROVIDE DATA CABLE FROM COMBO UNIT TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING. VERIFY COMBO UNIT LOCATION PRIOR TO ROUGH-IN. PROVIDE MATERIALS AND LABOR REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
- TWO WAY COMMUNICATION AND EMERGENCY CALL BUTTON BETWEEN CLASSROOM AND ADMIN AREA. PROVIDE CALL BUTTON AND CABLING REQUIRED COMPATIBLE WITH INTERCOM SYSTEM. COORDINATE SYSTEM REQUIREMENTS WITH INTERCOM SYSTEM INSTALLER.
- COUNTER TOP FLIP UP DATA RECEPTACLE. PROVIDE LEVITON MODEL 'PFGF1-MB' OR EQUAL FLIP UP BOX IN MILLWORK AT WALL. PROVIDE PORTS AND CABLING; QUANTITY AS INDICATED. FROM DATA OUTLET TO DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING. COORDINATE BOX LOCATION AND CONDUIT ROUTING WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN.
- GYM SOUND SYSTEM HEAD-END EQUIPMENT FOR GYMNASIUM MOUNTED ON THE WALL SUCH THAT THE TOP OF THE RACK IS 6'-0" AFF.
- REMOTE SOUND SYSTEM ANTENNA WITH WIRE GUARD FOR SOUND SYSTEM IN THIS ROOM MOUNTED AT BOTTOM OF ROOF DECK. PROVIDE 1" CONDUIT AND CABLING AS REQUIRED TO SOUND SYSTEM HEAD-END EQUIPMENT LOCATED IN PE STORAGE 188.
- REMOTE ALS ANTENNA WITH WIRE GUARD FOR SOUND SYSTEM IN THIS ROOM MOUNTED AT BOTTOM OF ROOF DECK. PROVIDE 1" CONDUIT AND CABLING AS REQUIRED TO SOUND SYSTEM HEAD-END EQUIPMENT LOCATED IN PE STORAGE 188.
- MICROPHONE AND AUXILIARY INPUT JACKS FOR GYM SOUND SYSTEM MOUNTED AT 1'-6" AFF. PROVIDE 3/4" CONDUIT AND CABLING AS REQUIRED TO THE GYM HEAD-END SOUND SYSTEM LOCATED IN PE STORAGE 188.
- ROOM SOUND SYSTEM SPEAKER MOUNTED AT THE BUILDING STRUCTURE. PROVIDE CONDUIT AND CABLING BETWEEN EACH SPEAKER THEN TO THE CORRESPONDING GYM OR CAFETERIA SOUND SYSTEM HEAD-END EQUIPMENT LOCATED IN PE STORAGE 188. COORDINATE LOCATION AND AIMING OF THE SPEAKER TO PROVIDE OPTIMAL PERFORMANCE WITHIN THE SPACE.
- FLUSH MOUNTED REMOTE SOUND SYSTEM CONTROL PANEL MOUNTED AT 46" AFF. PROVIDE ENCLOSURE (HOFFMAN ASE SERIES OR EQUAL) WITH A LOCKABLE HINGED COVER (HOFFMAN ADFD SERIES WITH AN AC/DF LOCK KIT OR EQUAL). SIZE ENCLOSURE AS REQUIRED TO ACCOMMODATE ALL CONTROLS. CONTROL DEVICES SHALL BE INSTALLED IN JUNCTION BOXES. ALL CONDUCTORS AND CABLING WITHIN THE ENCLOSURE ARE TO BE CONCEALED SO THEY ARE NOT EXPOSED TO THE USER. PROVIDE (2) 3/4" SPARE CONDUITS FROM ENCLOSURE TO BUILDING STRUCTURE. PROVIDE (2) 1" CONDUIT WITH CABLING AS REQUIRED TO SOUND SYSTEM HEAD-END UNIT LOCATED IN PE STORAGE 188. LOCK SHALL BE KEYPED TO MATCH THE SCHOOL MASTER KEY SYSTEM.
- REMOTE SOUND SYSTEM VOLUME CONTROLS. PROVIDE 3-GANG BOX FOR REMOTE SOUND SYSTEM HEAD END CONTROLS AND BLUETOOTH CONTROLS. CONTROLS ARE TO BE LOCATED IN FLUSH MOUNTED LOCKABLE ENCLOSURE.
- PROVIDE FLEXIBLE CONNECTION BETWEEN WALL AND RECEPTACLE.
- RECEPTACLE TO BE MOUNTED IN THE FACE OF THE BLEACHERS. COORDINATE DEVICE LOCATION WITH ARCHITECT AND BLEACHER PROVIDER PRIOR TO ROUGH-IN.
- PROVIDE 1" CONDUIT TO STRUCTURE. PROVIDE DATA CABLING; QUANTITY AS INDICATED. FROM DATA OUTLET TO THE DATA RACK INDICATED. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING.
- PROJECTOR AV CONNECTION POINT. PROVIDE A 2-GANG JUNCTION BOX MOUNTED AT OVERHEAD PROJECTOR LOCATION FOR USB AND HDMI CABLING. PROVIDE A 1-1/4" CONDUIT FROM FROM PROJECTOR TO TEACHER STATION AV CONNECTION POINT NEAR STAGE. VERIFY PROJECTOR LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN. RE CLASSROOM TEACHER STATION DETAIL (SIMILAR).
- DESK DATA AND AV CONNECTION POINT FOR PROJECTOR. PROVIDE 2-GANG JUNCTION BOX AT 18" AND STUB A 1-1/4" CONDUIT FROM BOX TO STRUCTURE THEN TO DATA BOX AT OVERHEAD PROJECTOR FOR DATA AND HDMI CABLE ROUTING. RE CLASSROOM TEACHER STATION DETAIL (SIMILAR).
- PROVIDE JUNCTION BOX WITH BLANK COVER PLATE AT 15'-0" FOR FUTURE SCOREBOARD CONTROLS. VERIFY SCOREBOARD LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN. ROUTE 1" CONDUIT WITH PULL STRING TO STRUCTURE. THEN TO J BOX BEHIND BLEACHERS FOR FUTURE CABLING.
- JUNCTION BOX FOR FUTURE SCOREBOARD CONTROL CABLING MOUNTED AT 1'-6" AFF. PROVIDE 1" CONDUIT FROM SCOREBOARD CONTROLS TO JUNCTION BOX AT SCOREBOARD. PROVIDE BLANK COVER PLATE.
- INTERIOR SECURITY CAMERA FURNISHED AND INSTALLED BY THE OWNER. CONTRACTOR TO PROVIDE SURFACE MOUNTED DATA BOX (BISCUIT), WITH QUANTITY OF DATA PORTS AS INDICATED. ABOVE THE ACCESSIBLE CEILING OR AT THE BUILDING STRUCTURE FOR SECURITY CAMERA CONNECTION. COORDINATE THE DATA OUTLET AND CAMERA LOCATION WITH THE SCHOOL DISTRICT PRIOR TO INSTALLATION. PROVIDE DATA CABLES; QUANTITY AS INDICATED. TO A DEDICATED, POE, PATCH PANEL IN DATA RACK INDICATED.
- PROVIDE JUNCTION BOX IN WALL AT +120" UNO. FOR A WIRELESS ACCESS POINT (WAP). COORDINATE THE DATA OUTLET LOCATION WITH THE SCHOOL DISTRICT I.T. STAFF PRIOR TO INSTALLATION. PROVIDE 1" CONDUIT WITH DATA CABLES; QUANTITY AS INDICATED TO DATA RACK INDICATED. PROVIDE 18" OF SLACK IN THE BOX FOR CONNECTION TO OWNER PROVIDED WAP. THE WAP DEVICE WILL BE FURNISHED AND CALIBRATED BY THE SCHOOL DISTRICT I.T. STAFF AND INSTALLED BY THE ELECTRICAL CONTRACTOR PER THE MANUFACTURE'S RECOMMENDATIONS. PROVIDE ALL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
- PROVIDE CONDUIT SLEEVES. QUANTITY AND SIZE AS INDICATED. TERMINATE WITH INSULATED THROAT BUSHINGS.
- ANALOG INTERCOM ZONE SPEAKER TO BE CONNECTED TO THE INTERCOM SYSTEM VIA ZONE CONTROLLER. CONNECT TO PAGING ZONE INDICATED. PROVIDE SPEAKER, BACKBOX, AND CABLING. PROVIDE ZONE CONTROL AMPLIFIER IN THE 'MDF' DATA RACK. OWNER TO PROVIDE DATA RACK SWITCHES IN 'MDF' DATA RACK.
- EXTERIOR ANALOG, FLUSH MOUNTED, INTERCOM SPEAKER WITH VANDAL RESISTANT COVER. SPEAKER TO BE CONNECTED TO THE BUILDING INTERCOM SYSTEM VIA A ZONE CONTROLLER. CONNECT TO PAGING ZONE INDICATED. PROVIDE SPEAKER, 4x4 BACKBOX, AND CABLING. PROVIDE ZONE CONTROL AMPLIFIER IN THE 'MDF' DATA RACK. OWNER TO PROVIDE DATA RACK SWITCHES IN 'MDF' DATA RACK. MOUNT SPEAKER AT 10'-6" AFF. VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN.
- PROVIDE JUNCTION BOX FOR CARD READER AT +46" AFG AND 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE CABLING PER SPECIFICATION REQUIREMENTS. REFER TO DOOR ACCESS CONTROL DETAIL.
- STUB (3) 3/4" CONDUITS FROM DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING. STUB ONE CONDUIT FROM TOP OF DOOR FRAME ON LATCH SIDE AND ONE INTO DOOR FRAME AT MIDDLE HINGES ON EACH SIDE OF DOUBLE DOOR. PROVIDE CABLING TO THE SECURITY AND ACCESS CONTROL HEAD-END EQUIPMENT. VERIFY REQUIREMENTS WITH THE OWNER'S SECURITY CONTRACTOR PRIOR TO ROUGH-IN.
- STUB (2) 3/4" CONDUITS FROM DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING. STUB ONE CONDUIT FROM TOP OF DOOR FRAME ON LATCH SIDE AND ONE INTO DOOR FRAME AT MIDDLE HINGE OF DOOR. PROVIDE CABLING TO THE SECURITY AND ACCESS CONTROL HEAD-END EQUIPMENT. VERIFY REQUIREMENTS WITH THE OWNER'S SECURITY CONTRACTOR PRIOR TO ROUGH-IN.
- EXTERIOR, WALL MOUNTED, SECURITY CAMERA FURNISHED AND INSTALLED BY THE OWNER. CONTRACTOR TO PROVIDE A JUNCTION BOX AT 12'-0" AFG AND 3/4" CONDUIT FROM THE JUNCTION BOX TO THE NEAREST ACCESSIBLE CEILING SPACE. PROVIDE SURFACE MOUNTED DATA BOX (BISCUIT) WITH QUANTITY OF DATA PORTS AS INDICATED. IN THE JUNCTION BOX. COORDINATE THE DATA OUTLET AND CAMERA LOCATION WITH THE SCHOOL DISTRICT PRIOR TO INSTALLATION. PROVIDE DATA CABLES; QUANTITY AS INDICATED. TO A DEDICATED, POE, PATCH PANEL IN THE DATA RACK INDICATED.




1 Special Systems Plan - Area 'C'
Scale: 1/8" = 1'-0"



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PROFESSIONAL ENGINEER
REG. NO. 10389
8/24/2023
KURT LECHTENBERG
STATE OF IDAHO

#	Description	Date
1	Revisions	05/11/2023
2	Addendum #1	

**Jefferson Elementary School
Addition and Remodel**

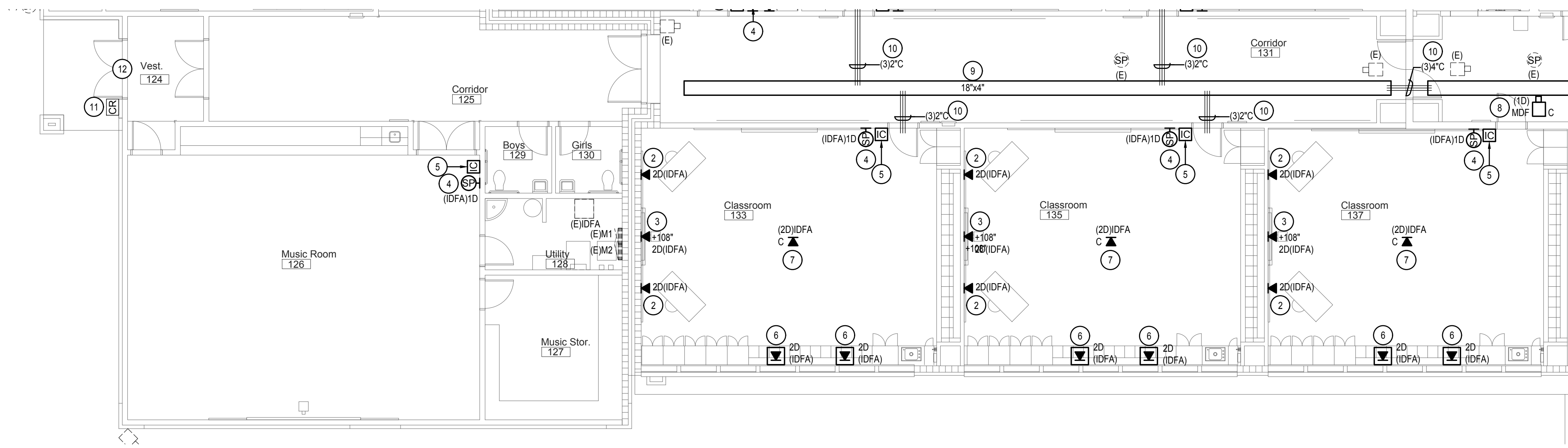
600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
LKV PROJECT # -
REVISIONS:

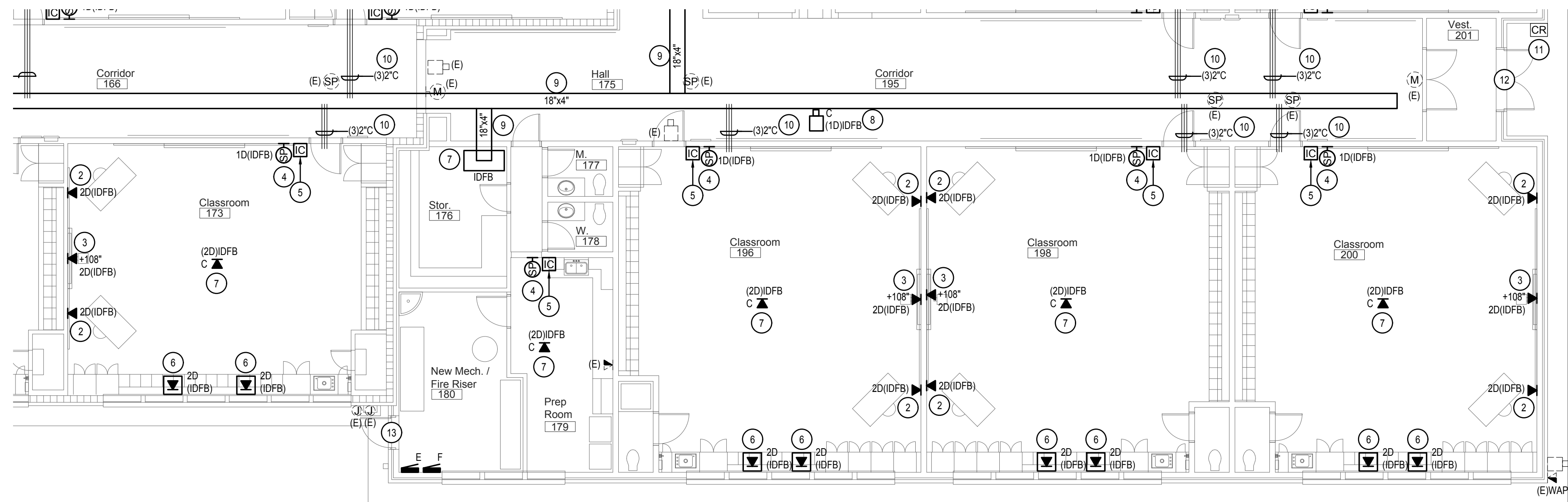
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Design Development

DRAWING NO.
E-7.3
SPECIAL SYSTEMS
PLAN - AREA 'C'



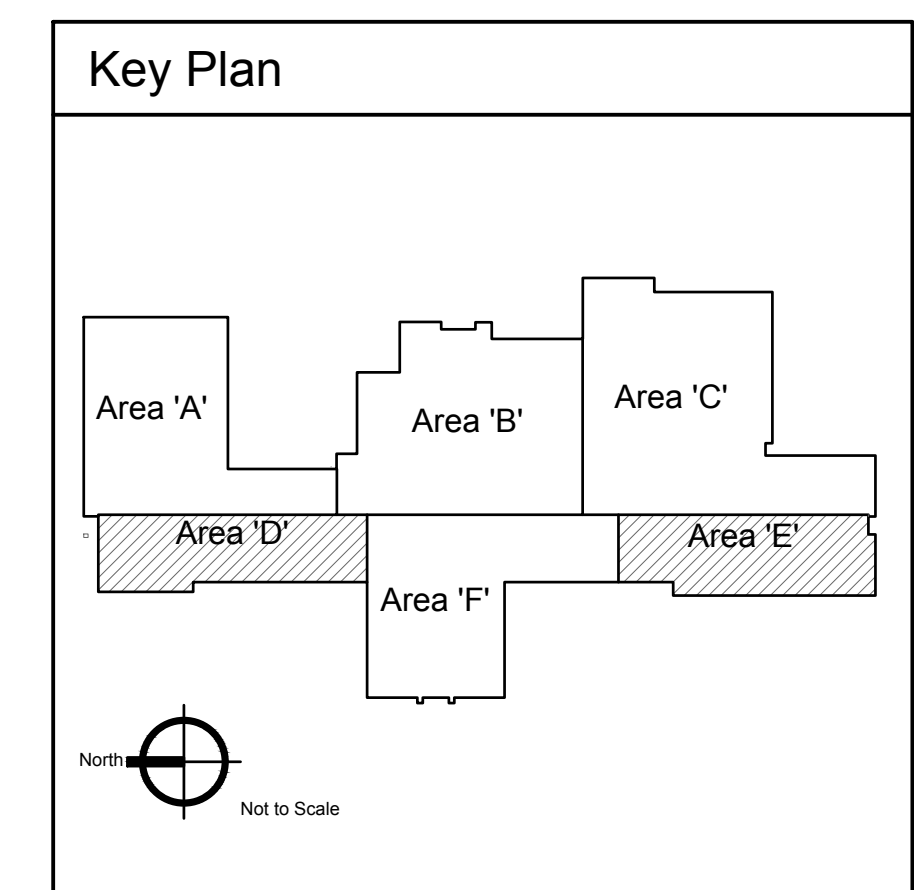
1 Special Systems Plan - Area 'D'
Scale: 1/8" = 1'-0"



2 Special Systems Plan - Area 'E'
Scale: 1/8" = 1'-0"

KEYED NOTES:

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. PROVIDE 1" CONDUIT FROM DATA OUTLET TO VOID ABOVE ACCESSIBLE CEILING. PROVIDE DATA CABLING, QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING.
- 2. TEACHERS DESK DATA AND AV CONNECTION POINT. PROVIDE JUNCTION BOX AND ROUTE 1-1/4" CONDUIT UP WALL TO ABOVE ACCESSIBLE CEILING. PROVIDE USB AND HDMI CABLING, AND FACEPLATE PER SPECIFICATION'S REQUIREMENTS. PROVIDE DATA CABLING, QUANTITY AS INDICATED, FROM DATA OUTLET, TO THE DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING. RE: CLASSROOM TEACHER STATION DETAIL.
- 3. CLASSROOM PROJECTOR DATA AND AV CONNECTION POINT. PROVIDE JUNCTION BOX AT HEIGHT INDICATED AND ROUTE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING AND TO FUTURE TV LOCATION. PROVIDE DATA CABLING, QUANTITY AS INDICATED FROM DATA OUTLET AND FACEPLATE PER SPECIFICATION'S REQUIREMENTS. TO THE DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING RE: CLASSROOM PROJECTOR DETAIL.
- 4. PROVIDE SURFACE MOUNTED IP CLOCK AND SPEAKER COMBINATION UNIT FOR INTERCOM SYSTEM AT +8'-0" UNO. PROVIDE 2-GANG MID-RING AND STUB 1" CONDUIT FROM MID-RING TO THE VOID ABOVE THE ACCESSIBLE CEILING. PROVIDE DATA CABLE FROM COMBO UNIT TO THE DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING. VERIFY COMBO UNIT LOCATION PRIOR TO ROUGH-IN. PROVIDE MATERIALS AND LABOR REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
- 5. TWO WAY COMMUNICATION AND EMERGENCY CALL BUTTON BETWEEN CLASSROOM AND ADMIN AREA. PROVIDE CALL BUTTON AND CABLING REQUIRED COMPATIBLE WITH INTERCOM SYSTEM. COORDINATE SYSTEM REQUIREMENTS WITH INTERCOM SYSTEM INSTALLER.
- 6. COUNTER TOP FLIP UP DATA RECEPTACLE. PROVIDE LEVITON MODEL "PFGF-1MB" OR EQUAL FLIP UP BOX IN MILLWORK AT WALL. PROVIDE PORTS AND CABLING, QUANTITY AS INDICATED, FROM DATA OUTLET TO DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING. COORDINATE BOX LOCATION AND CONDUIT ROUTING WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN.
- 7. REMOTE DATA RACK 'IDFB' MOUNTED ON THE WALL SUCH THAT THE TOP OF THE TOP RACK IS 6'-8" AFF. PROVIDE LOCKABLE CABINET, ALL PATCH PANELS AND FIBER OPTIC SWITCHES AS REQUIRED. PROVIDE A 6-STRAND, MULTI-MODE, FIBER OPTIC FROM 'IDFA' TO THE EXISTING 'MDF' DATA RACK LOCATED IN I.T. SERVER ROOM 150. RE: ELECTRICAL OVERALL FLOOR PLAN. THE LOCATION OF THE 'IDFB' DATA CABINET AS WELL AS THE LAYOUT OF THE EQUIPMENT WITHIN THE CABINET SHALL BE REVIEWED WITH THE SCHOOL DISTRICT I.T. DEPARTMENT PRIOR TO ROUGH-IN. INSTALLATIONS NOT APPROVED BY THE SCHOOL DISTRICT I.T. STAFF PRIOR TO INSTALLATION ARE SUBJECT TO MODIFICATION TO MEET SCHOOL DISTRICT'S NEEDS AT THE CONTRACTOR'S EXPENSE.
- 8. INTERIOR SECURITY CAMERA FURNISHED AND INSTALLED BY THE OWNER. CONTRACTOR TO PROVIDE SURFACE MOUNTED DATA BOX (BISCUIT), WITH QUANTITY OF DATA PORTS AS INDICATED, ABOVE THE ACCESSIBLE CEILING OR AT THE BUILDING STRUCTURE FOR SECURITY CAMERA CONNECTION. COORDINATE THE DATA OUTLET AND CAMERA LOCATION WITH THE SCHOOL DISTRICT PRIOR TO INSTALLATION. PROVIDE DATA CABLES, QUANTITY AS INDICATED, TO A DEDICATED, POG, PATCH PANEL IN DATA RACK INDICATED.
- 9. PROVIDE WIRE BASKET CABLE TRAY WITH FITTINGS, SIZE AS INDICATED, ABOVE THE ACCESSIBLE CEILING. FIELD COORDINATE ROUTING OF THE CABLE TRAY WITH ALL OTHER TRADES TO ENSURE PROPER ACCESS TO THE CABLE TRAY AND OTHER TRADE EQUIPMENT.
- 10. PROVIDE CONDUIT SLEEVES, QUANTITY AND SIZE AS INDICATED. TERMINATE WITH INSULATED THROAT BUSHINGS.
- 11. PROVIDE JUNCTION BOX FOR CARD READER AT +46" AFG AND 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE CABLING PER SPECIFICATION REQUIREMENTS. REFER TO DOOR ACCESS CONTROL DETAIL.
- 12. STUB (3) 3/4" CONDUITS FROM DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING. STUB ONE CONDUIT FROM TOP OF DOOR FRAME ON LATCH SIDE AND ONE INTO DOOR FRAME AT MIDDLE HINGES ON EACH SIDE OF DOUBLE DOOR. PROVIDE CABLING TO THE SECURITY AND ACCESS CONTROL HEAD-END EQUIPMENT. VERIFY REQUIREMENTS WITH THE OWNER'S SECURITY CONTRACTOR PRIOR TO ROUGH-IN.
- 13. STUB (1) 3/4" CONDUIT FROM THE DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING FOR DOOR ACCESS CONTROL CABLING. STUB ONE CONDUIT INTO THE TOP OF THE FRAME ON THE LATCH SIDE OF THE DOOR. PROVIDE CABLING TO THE SECURITY AND ACCESS CONTROL HEAD-END EQUIPMENT. VERIFY REQUIREMENTS WITH THE OWNER'S SECURITY CONTRACTOR PRIOR TO ROUGH-IN. RE: DOOR ACCESS CONTROL DETAIL.



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Revisions	Date
Description Addendum #1	05/11/2023

**Jefferson Elementary School
Addition and Remodel**
600 N. Fillmore Street, Jerome, Idaho

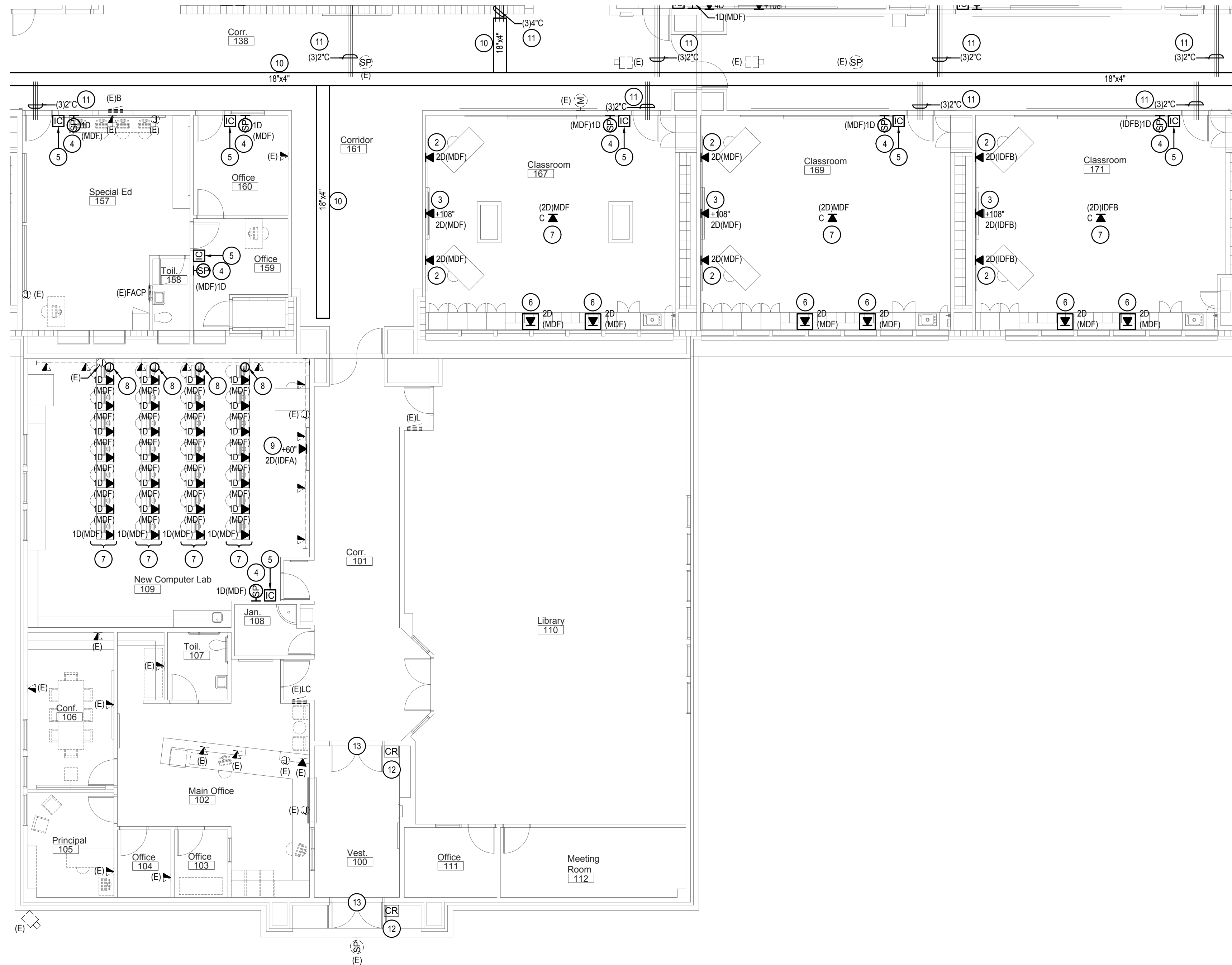
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LKV PROJECT #:
REVISIONS:

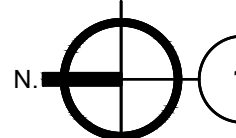
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Design Development

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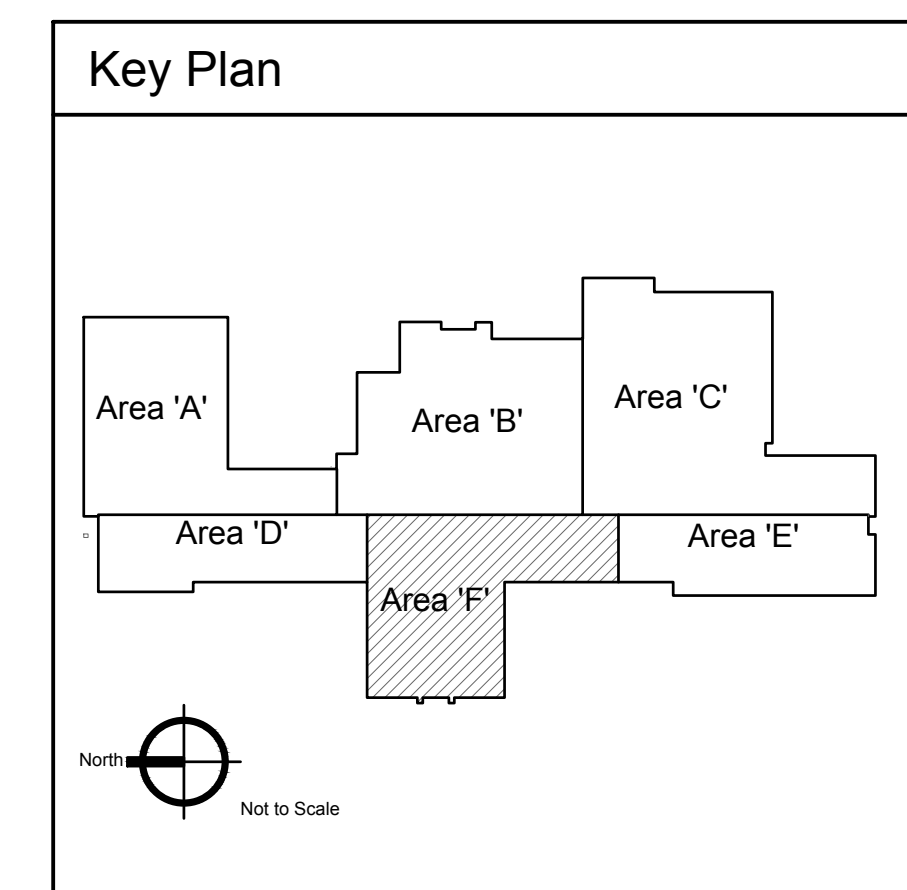
E-7.4
SPECIAL SYSTEMS
PLAN - AREA 'D' AND 'E'




1 Special Systems Plan - Area 'F'
 Scale: 1/8" = 1'-0"

KEYED NOTES:

- # SYMBOL USED FOR NOTE CALLOUT.
- PROVIDE 1" CONDUIT FROM DATA OUTLET TO VOID ABOVE ACCESSIBLE CEILING. PROVIDE DATA CABLING, QUANTITY AS INDICATED, FROM DATA OUTLET TO THE DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING.
 - TEACHERS DESK DATA AND AV CONNECTION POINT. PROVIDE JUNCTION BOX AND ROUTE 1-1/4" CONDUIT UP WALL TO ABOVE ACCESSIBLE CEILING. PROVIDE USB AND HDMI CABLING, AND FACEPLATE PER SPECIFICATION'S REQUIREMENTS. PROVIDE DATA CABLING, QUANTITY AS INDICATED, FROM DATA OUTLET, TO THE DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING. RE CLASSROOM TEACHER STATION DETAIL.
 - CLASSROOM PROJECTOR DATA AND AV CONNECTION POINT. PROVIDE JUNCTION BOX AT HEIGHT INDICATED AND ROUTE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING AND TO FUTURE TV LOCATION. PROVIDE DATA CABLING, QUANTITY AS INDICATED FROM DATA OUTLET AND FACEPLATE PER SPECIFICATION'S REQUIREMENTS. TO THE DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING RE CLASSROOM PROJECTOR DETAIL.
 - PROVIDE SURFACE MOUNTED IP CLOCK AND SPEAKER COMBINATION UNIT FOR INTERCOM SYSTEM AT +8'-0" UNO. PROVIDE 2-GANG MUD-RING AND STUB 1" CONDUIT FROM MUD-RING TO THE VOID ABOVE THE ACCESSIBLE CEILING. PROVIDE DATA CABLE FROM COMBO UNIT TO THE DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING. VERIFY COMBO UNIT LOCATION PRIOR TO ROUGH-IN. PROVIDE MATERIALS AND LABOR REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
 - TWO WAY COMMUNICATION AND EMERGENCY CALL BUTTON BETWEEN CLASSROOM AND ADMIN AREA. PROVIDE CALL BUTTON AND CABLING REQUIRED COMPATIBLE WITH INTERCOM SYSTEM. COORDINATE SYSTEM REQUIREMENTS WITH INTERCOM SYSTEM INSTALLER.
 - COUNTER TOP FLIP UP DATA RECEPTACLE. PROVIDE LEVITON MODEL "PFGF1-MB" OR EQUAL FLIP UP BOX IN MILLWORK AT WALL. PROVIDE PORTS AND CABLING, QUANTITY AS INDICATED, FROM DATA OUTLET TO DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING. COORDINATE BOX LOCATION AND CONDUIT ROUTING WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN.
 - NEW DATA RECEPTACLE MOUNTED UNDER DESK. COORDINATE BOX LOCATION AND CABLE ROUTING WITH DESK INSTALLER PRIOR TO ROUGH-IN.
 - UTILIZE EXISTING WALL MOUNTED, DUAL CHANNEL RACEWAY TO RUN NEW CABLING TO NEW COMPUTER DESKS. PROVIDE JUNCTION BOX AT EXISTING RACEWAY AND COORDINATE WITH DESK INSTALLER TO RUN DATA CABLING FROM NEW J-BOX TO TO EACH DESK LOCATION AS NEEDED UNDER DESKS.
 - CLASSROOM TV DATA AND AV CONNECTION POINT. PROVIDE JUNCTION BOX AT HEIGHT INDICATED AND ROUTE 1-1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE DATA CABLING, QUANTITY AS INDICATED FROM DATA OUTLET AND FACEPLATE PER SPECIFICATION'S REQUIREMENTS. TO THE DATA RACK INDICATED. SUPPORT WITH D-RING EVERY 36" AS REQUIRED. TERMINATE AND TEST ALL CABLING. RE CLASSROOM PROJECTOR DETAIL (SIMILAR).
 - PROVIDE WIRE BASKET CABLE TRAY WITH FITTINGS, SIZE AS INDICATED, ABOVE THE ACCESSIBLE CEILING. FIELD COORDINATE ROUTING OF THE CABLE TRAY WITH ALL OTHER TRADES TO ENSURE PROPER ACCESS TO THE CABLE TRAY AND OTHER TRADE EQUIPMENT.
 - PROVIDE CONDUIT SLEEVES, QUANTITY AND SIZE AS INDICATED. TERMINATE WITH INSULATED THROAT BUSHINGS.
 - PROVIDE JUNCTION BOX FOR CARD READER AT +46" AFG AND 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE CABLING PER SPECIFICATION REQUIREMENTS. REFER TO DOOR ACCESS CONTROL DETAIL.
 - STUB (3) 3/4" CONDUITS FROM DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING. STUB ONE CONDUIT FROM TOP OF DOOR FRAME ON LATCH SIDE AND ONE INTO DOOR FRAME AT MIDDLE HINGES ON EACH SIDE OF DOUBLE DOOR. PROVIDE CABLING TO THE SECURITY AND ACCESS CONTROL, HEAD-END EQUIPMENT. VERIFY REQUIREMENTS WITH THE OWNER'S SECURITY CONTRACTOR PRIOR TO ROUGH-IN.
 - STUB (1) 3/4" CONDUIT FROM THE DOOR FRAME TO ABOVE NEAREST ACCESSIBLE CEILING. STUB ONE CONDUIT FROM TOP OF DOOR FRAME INTO DOOR FRAME AT MIDDLE HINGE.



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Revisions	Date
Description Addendum #1	05/11/2023
#	

**Jefferson Elementary School
 Addition and Remodel**

600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
 LKV PROJECT #: -
 REVISIONS:

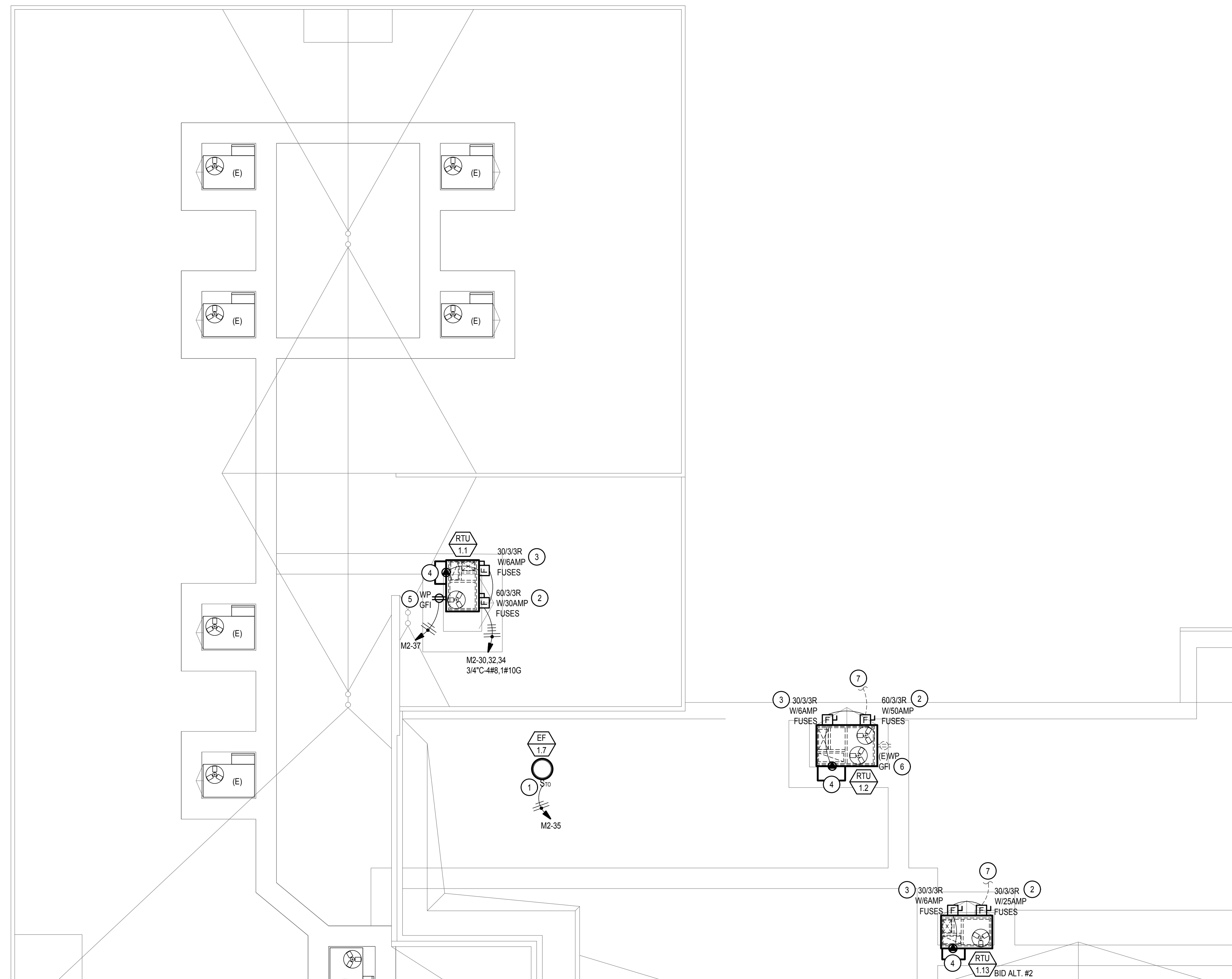
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Design Development

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E-7.5

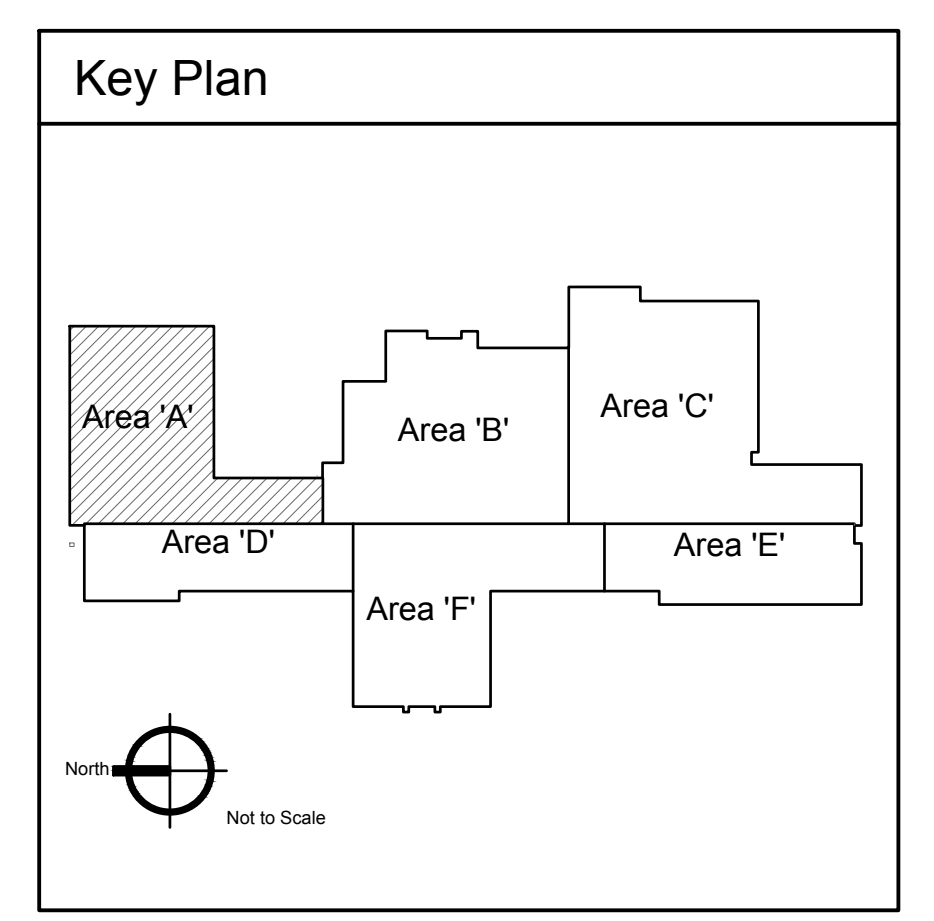
SPECIAL SYSTEMS
PLAN - AREA 'F'




1 Electrical Roof Plan - Area 'A'
Scale: 1/8" = 1'-0"


KEYED NOTES:

- 1. FIELD COORDINATE DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
- 2. FUSED MAIN DISCONNECT AS INDICATED. FIELD COORDINATE FUSED DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
- 3. FUSED DISCONNECT AS INDICATED FOR SEPARATE POWERED EXHAUST CONNECTION. COORDINATE LOCATION AND MOUNTING WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES. CONNECT TO THE LINE SIDE OF THE MAIN DISCONNECT. PROVIDE GUTTER, JUNCTION BOX(ES), WIRE TAPS AS REQUIRED, MAXIMUM LENGTH OF CONDUCTORS SHALL BE 10 FEET. LABEL THE DISCONNECT AS "POWERED EXHAUST DISCONNECT".
- 4. CONNECTION FOR POWERED EXHAUST UNIT. COORDINATE LOCATION AND ROUTING OF CONDUIT WITH MECHANICAL CONTRACTOR.
- 5. MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ON MECHANICAL UNIT WHERE APPLICABLE.
- 6. EXISTING RECEPTACLE NEAR NEW MECHANICAL UNIT. EXTEND EXISTING CIRCUIT CONDUIT AND CONDUCTORS FROM EXISTING CONVENIENCE RECEPTACLE TO NEW LOCATION ON/NEAR NEW MECHANICAL UNIT. MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ON MECHANICAL UNIT WHERE APPLICABLE.
- 7. EXTEND EXISTING CIRCUIT CONDUIT AND CONDUCTORS AS REQUIRED TO MECHANICAL UNIT DISCONNECT.






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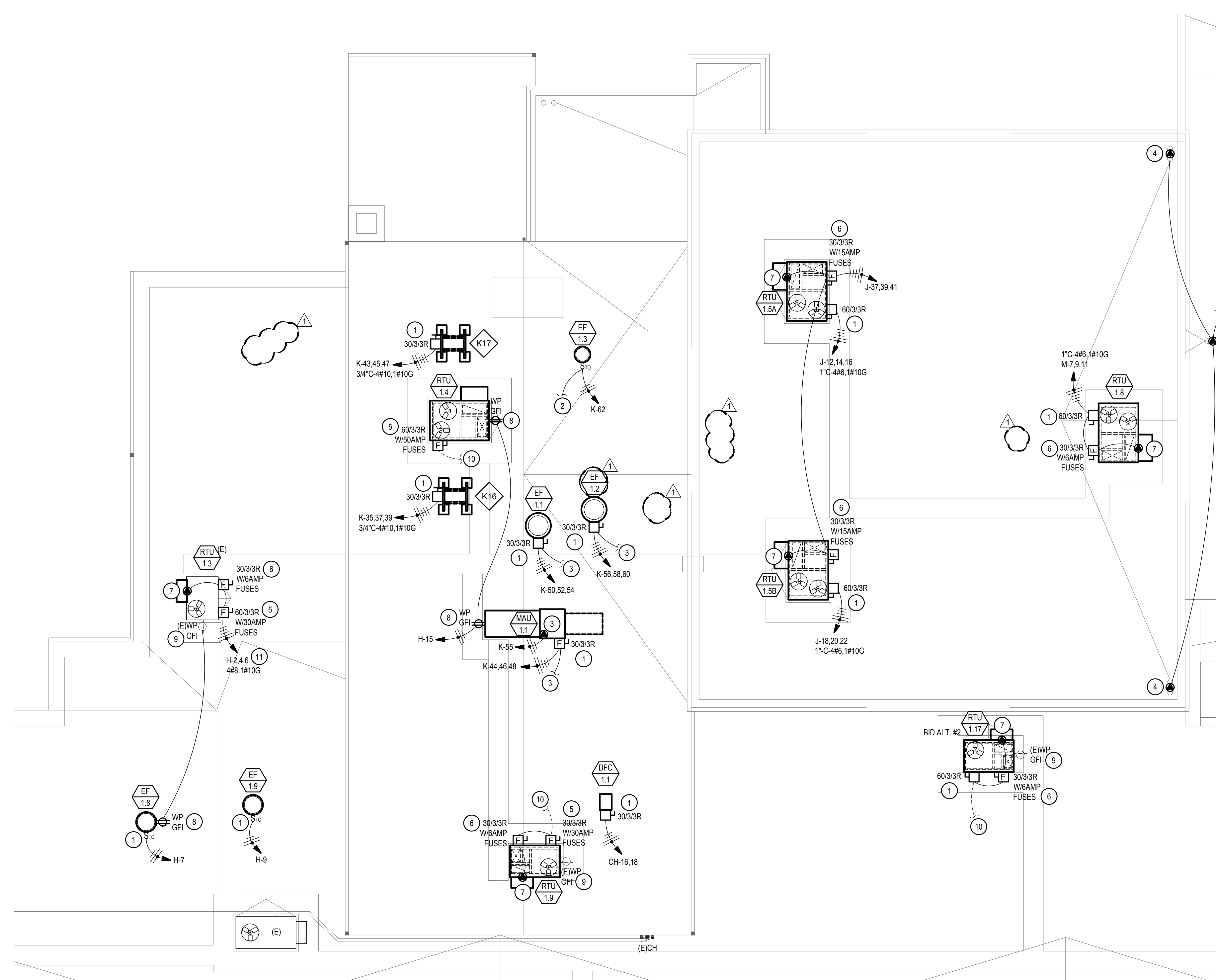
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Design Development

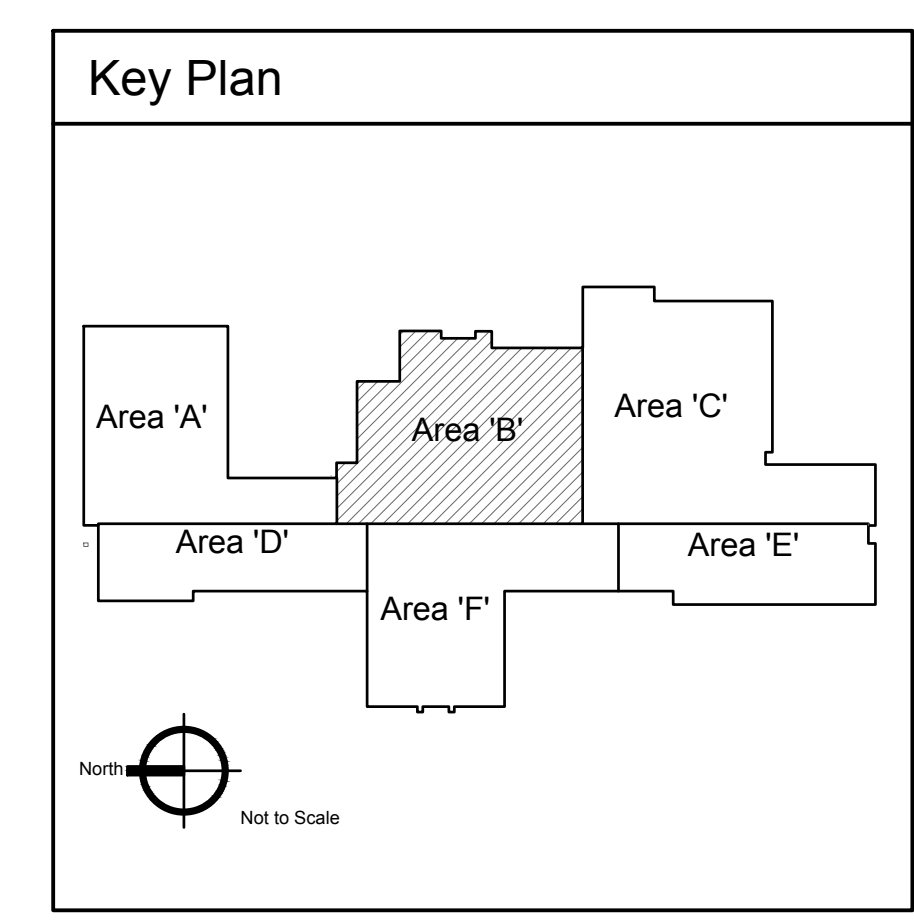
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E-8.1
ELECTRICAL ROOF
PLAN - AREA 'A'

KEYED NOTES:

- # SYMBOL USED FOR NOTE CALLOUT.
- 1. FIELD COORDINATE DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
- 2. ROUTE TO DISHWASHER HOOD FAN PILOT SWITCH LOCATED IN KITCHEN. RE: ENLARGED KITCHEN PLAN - AREA 'F'.
- 3. CONNECTION FOR PLUMBING CONTROLS VALVES. COORDINATE CONNECTION REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- 4. INTERLOCK WITH KITCHEN HOOD CONTROL PANEL 'HCP'. ROUTE CIRCUIT THROUGH 'HCP' AND PROVIDE ALL CONNECTIONS AND HARDWARE REQUIRED FOR A COMPLETE INSTALLATION. COORDINATE WITH MECHANICAL CONTRACTOR FOR REQUIREMENTS AND EXACT LOCATION. RE: KITCHEN HOOD CONTRACTOR CABINET DETAIL.
- 5. FUSED MAIN DISCONNECT AS INDICATED. FIELD COORDINATE FUSED DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
- 6. FUSED DISCONNECT AS INDICATED FOR SEPARATE POWERED EXHAUST CONNECTION. COORDINATE LOCATION AND MOUNTING WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES. CONNECT TO THE LINE SIDE OF THE MAIN DISCONNECT. PROVIDE GUTTER, JUNCTION BOX(ES), WIRE TAPS AS REQUIRED. MAXIMUM LENGTH OF CONDUCTORS SHALL BE 10 FEET. LABEL THE DISCONNECT AS "POWERED EXHAUST DISCONNECT".
- 7. CONNECTION FOR POWERED EXHAUST UNIT. COORDINATE LOCATION AND ROUTING OF CONDUIT WITH MECHANICAL CONTRACTOR.
- 8. MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ON MECHANICAL UNIT WHERE APPLICABLE
- 9. EXISTING RECEPTACLE NEAR NEW MECHANICAL UNIT. EXTEND EXISTING CIRCUIT CONDUIT AND CONDUCTORS FROM EXISTING CONVENIENCE RECEPTACLE TO NEW LOCATION ON NEW MECHANICAL UNIT. MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ON MECHANICAL UNIT WHERE APPLICABLE
- 10. EXTEND EXISTING CIRCUIT CONDUIT AND CONDUCTORS AS REQUIRED TO MECHANICAL UNIT DISCONNECT.
- 11. EXTEND EXISTING CONDUIT AS REQUIRED FROM EXISTING MECHANICAL UNIT TO NEW PANEL AS INDICATED.



1 Electrical Roof Plan - Area 'B'
Scale: 1/8" = 1'-0"



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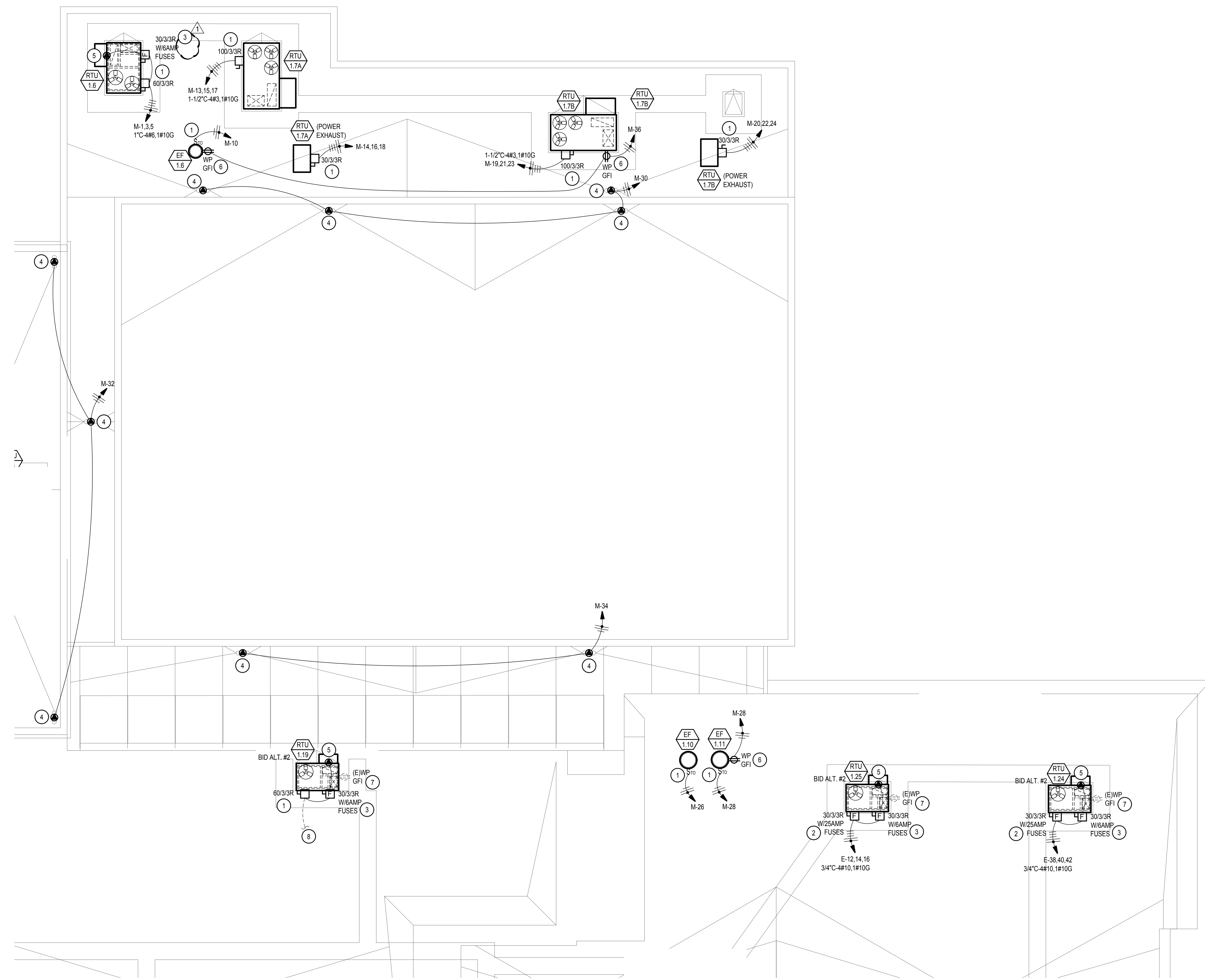
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Project No. 22-104



Revisions	Date
Description Addendum #1	05/11/2023

**Jefferson Elementary School
Addition and Remodel**
600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
LKV PROJECT #: -
REVISIONS:
DRAWN BY: AN
CHECKED BY: KL
Design Development
DRAWING NO.
E-8.2
ELECTRICAL ROOF
PLAN - AREA 'B'



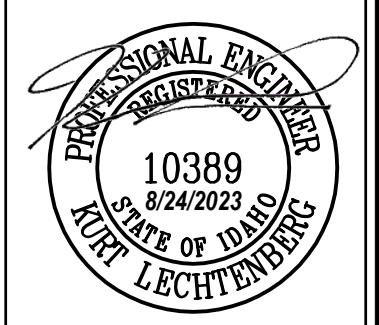
1 Electrical Roof Plan - Area 'C'
Scale: 1/8" = 1'-0"

KEYED NOTES:

- 1. FIELD COORDINATE DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
- 2. FUSED MAIN DISCONNECT AS INDICATED. FIELD COORDINATE FUSED DISCONNECT AND MECHANICAL UNIT LOCATION WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES.
- 3. FUSED DISCONNECT AS INDICATED FOR SEPARATE POWERED EXHAUST CONNECTION. COORDINATE LOCATION AND MOUNTING WITH MECHANICAL CONTRACTOR TO MAINTAIN ALL REQUIRED CLEARANCES. CONNECT TO THE LINE SIDE OF THE MAIN DISCONNECT. PROVIDE GUTTER, JUNCTION BOX(ES), WIRE TAPS AS REQUIRED. MAXIMUM LENGTH OF CONDUCTORS SHALL BE 10 FEET. LABEL THE DISCONNECT AS "POWERED EXHAUST DISCONNECT".
- 4. HEAT TAPE LOCATED ON ROOF. WRAP HEAT TAPE AROUND ROOF DRAIN AND OVERFLOW DRAIN DOWNSPOUT. EXTEND HEAT TAPE 4' DOWN DRAINPIPE. MAKE ALL CONNECTIONS. RE-HEAT TAPE CABLING DETAIL.
- 5. CONNECTION FOR POWERED EXHAUST UNIT. COORDINATE LOCATION AND ROUTING OF CONDUIT WITH MECHANICAL CONTRACTOR.
- 6. MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ON MECHANICAL UNIT WHERE APPLICABLE
- 7. EXISTING RECEPTACLE NEAR NEW MECHANICAL UNIT. EXTEND EXISTING CIRCUIT CONDUIT AND CONDUCTORS FROM EXISTING CONVENIENCE RECEPTACLE TO NEW LOCATION ON/NEAR NEW MECHANICAL UNIT. MOUNT RECEPTACLE ON RIGID CONDUIT 12" ABOVE ROOF DECK OR ON MECHANICAL UNIT WHERE APPLICABLE
- 8. EXTEND EXISTING CIRCUIT CONDUIT AND CONDUCTORS TO MECHANICAL UNIT DISCONNECT.

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**Jefferson Elementary School
Addition and Remodel**
600 N. Fillmore Street, Jerome, Idaho

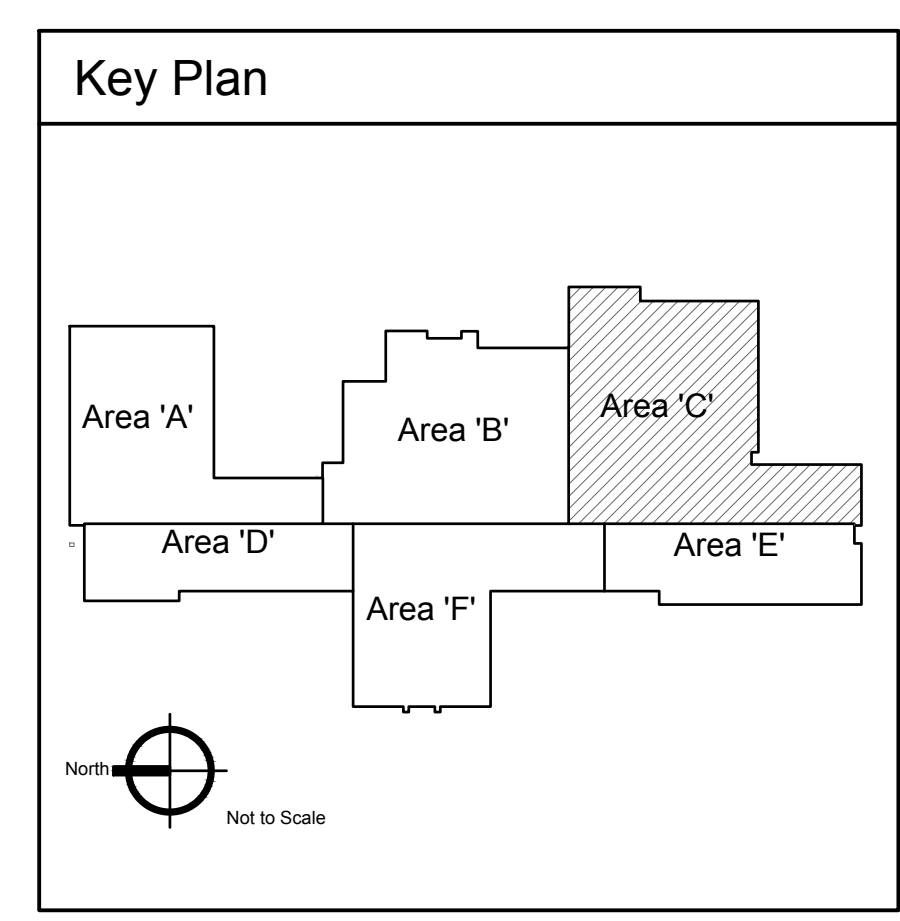
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Design Development

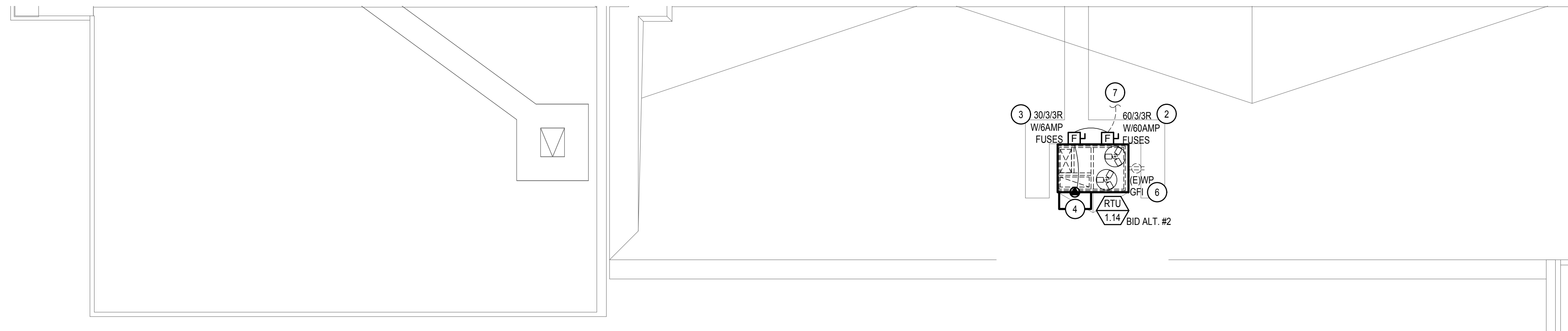
DRAWING NO.

E-8.3
ELECTRICAL ROOF
PLAN - AREA 'C'

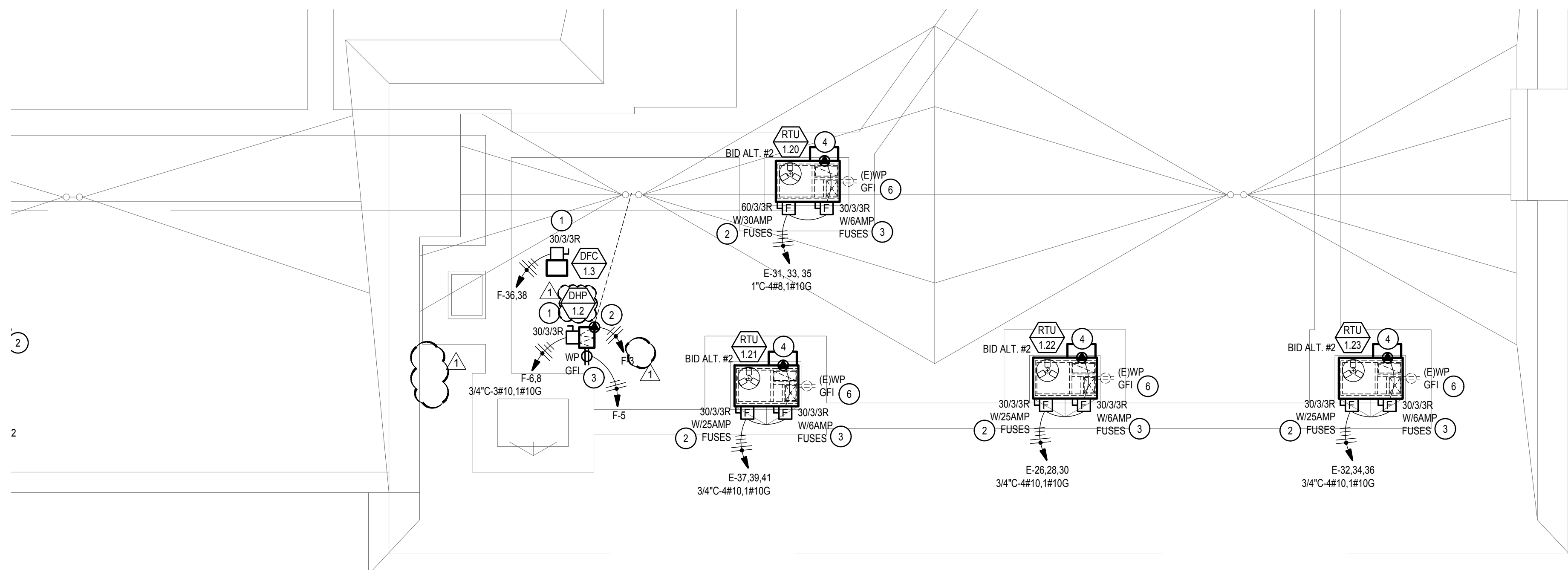


KEYED NOTES:

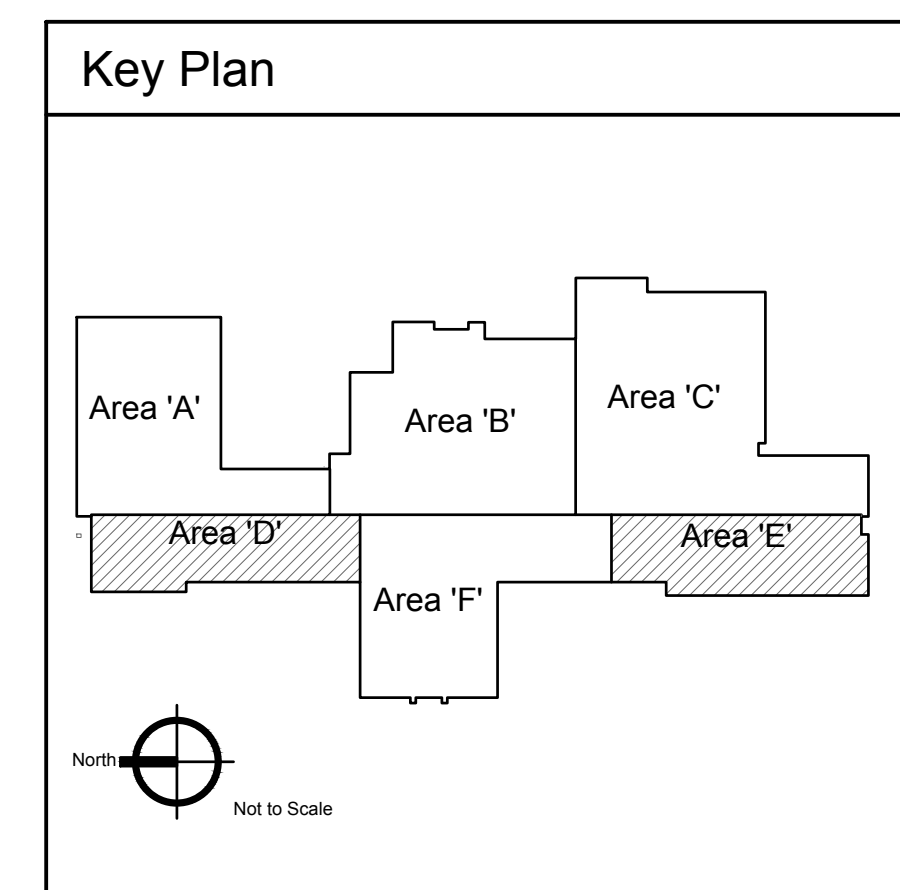
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- 7. EXTEND EXISTING CIRCUIT CONDUIT AND CONDUCTORS TO MECHANICAL UNIT DISCONNECT.
- 8. PROVIDE AND INSTALL HEAT TAPE AROUND BASE MECHANICAL UNIT. WRAP AROUND THE BASE OF THE UNIT. UTILIZE 12W/FT REYCHEM ICESTOP HEAT TAPE OR EQUAL. PROVIDE AND INSTALL 1 PENTAIR AMC-1A TEMPERATURE CONTROL UNIT PER CIRCUIT. COORDINATE THE INSTALLATION WITH THE MECHANICAL CONTRACTOR. RE: HEAT TAPE CABLING DETAIL (SIMILAR).



1 Electrical Roof Plan - Area 'D'
Scale: 1/8" = 1'-0"



2 Electrical Roof Plan - Area 'E'
Scale: 1/8" = 1'-0"



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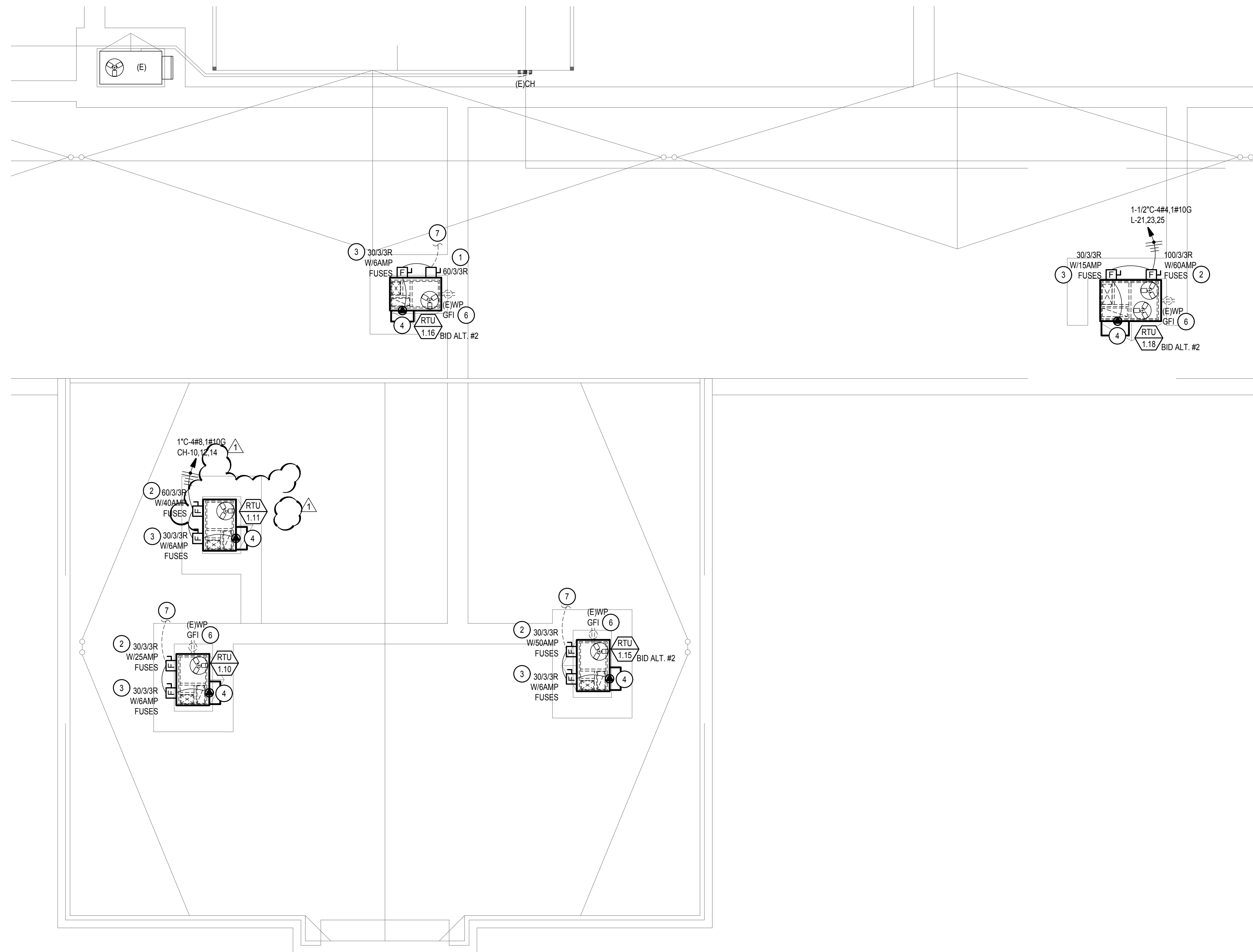
DRAWN BY: AN
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Design Development

DRAWING NO.

E-8.4

ELECTRICAL ROOF
PLAN - AREA 'D' AND 'E'



1 Electrical Roof Plan - Area 'F'
Scale: 1/8" = 1'-0"

KEYED NOTES:

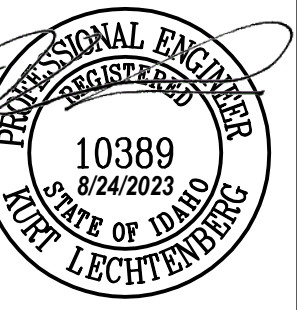
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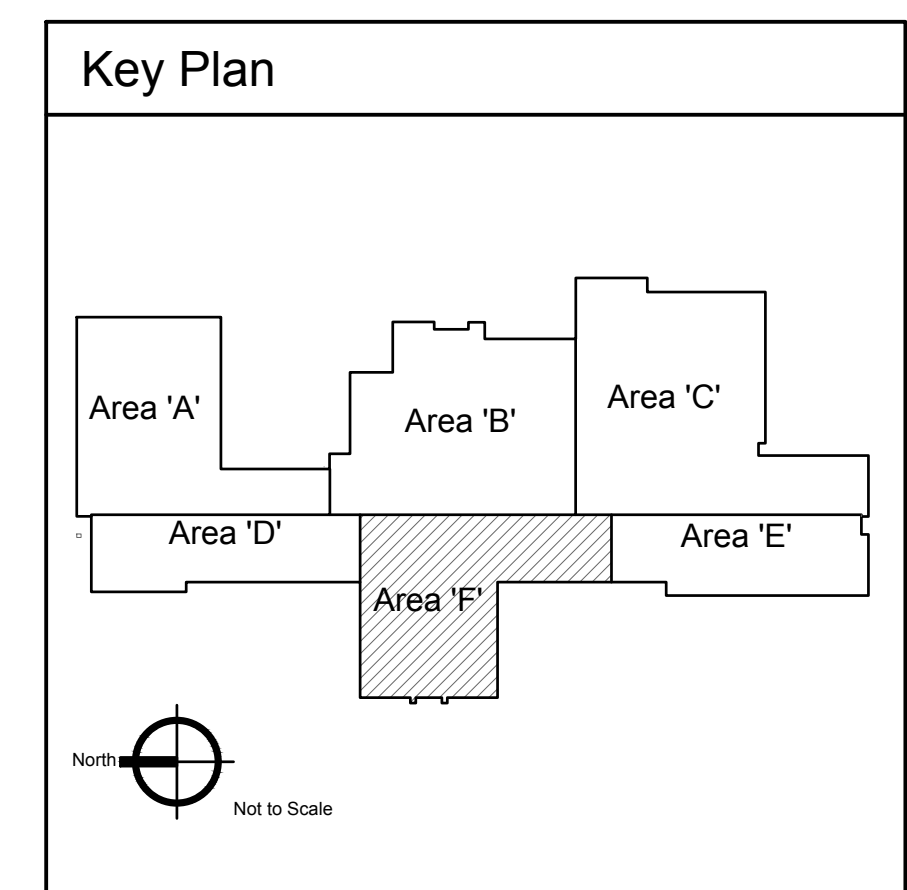
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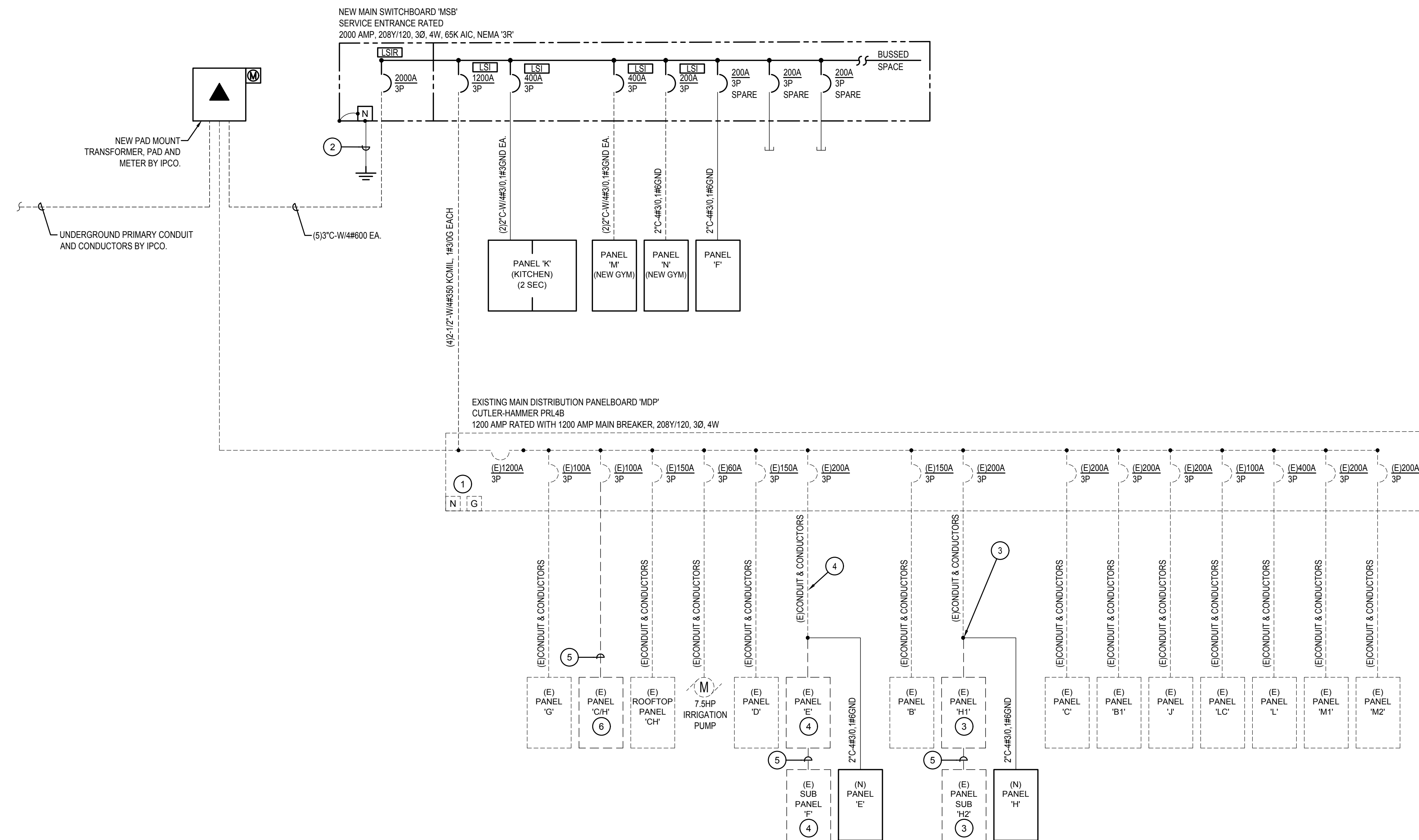
Design Development

DRAWING NO.

E-8.5

ELECTRICAL ROOF
PLAN - AREA 'F'





1 One-Line Diagram
Scale: None

ELECTRICAL LOAD SUMMARY (MSB)														
FEEDER	VOLTAGE	CONNECTED LOAD (KVA)									TOTAL CONNECTED LOAD		TOTAL DEMAND LOAD	
		LIGHTING	RECEP	MOTORS	KITCHEN	HVAC	ELEC HEAT	WATER HEAT	MISC	EXISTING AT 125% PEAK	KVA	AMPS	KVA	AMPS
(E)MDP	120/208Y	0.0	13.7	0.0	0.0	60.7	8.4	0.0	61.8	251.3	395.9	1099.7	394.1	1094.6
PANEL K	120/208Y	0.0	0.0	0.0	63.1	8.5	0.0	12.7	0.0	84.2	234.0	62.1	172.6	
PANEL M	120/208Y	0.0	0.0	0.0	0.0	82.7	4.6	0.0	16.7	103.9	288.7	103.9	288.7	
PANEL N	120/208Y	4.9	13.0	3.2	0.0	0.0	0.0	1.6	0.0	22.8	63.3	21.3	59.1	
	120/208Y	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	20.8	7.5	20.8	
TOTAL	120/208Y	12.4	26.7	3.2	63.1	151.8	13.0	0.0	92.8	251.3	614.3	1706.5	587.0	1630.6

EXISTING MAIN DISTRIBUTION BOARD 'MDP'															
FEEDER	VOLTAGE	NEW CONNECTED LOADS (KVA)									TOTAL CONNECTED LOAD		TOTAL DEMAND LOAD		
		LIGHTING	RECEP	MOTORS	KITCHEN	HVAC	ELEC HEAT	WATER HEAT	MISC	EXIST	KVA	AMPS	KVA	AMPS	
(E)PANEL 'G'	120/208Y										0.0	0.0	0.0	0.0	
(E)PANEL 'C/H'	120/208Y										0.0	0.0	0.0	0.0	
(E)PANEL 'CH'	120/208Y	0.0	0.0	0.0	0.0	18.0	0.0	0.0	0.0	0.0	18.0	50.0	18.0	50.0	
(E)IRRIGATION PUMP	120/208Y										0.0	0.0	0.0	0.0	
(E)PANEL 'D'	120/208Y										0.0	0.0	0.0	0.0	
(N)PANEL 'E'	120/208Y	0.0	0.0	0.0	0.0	0.0	0.0	49.1	0.0	49.1	136.3	49.1	136.3		
(N)PANEL 'F'	120/208Y	0.0	12.2	0.0	0.0	8.1	8.4	0.0	0.4	29.1	80.8	28.0	77.7		
(E)PANEL 'B'	120/208Y										0.0	0.0	0.0		
(N)PANEL 'H'	120/208Y	0.0	1.4	0.0	0.0	25.0	0.0	0.0	11.2	37.6	104.5	37.6	104.5		
(E)PANEL 'C'	120/208Y										0.0	0.0	0.0		
(E)BOILER PANEL	120/208Y										0.0	0.0	0.0		
(E)PANEL 'J'	120/208Y										0.0	0.0	0.0		
(E)PANEL 'L/C'	120/208Y										0.0	0.0	0.0		
(E)PANEL 'L'	120/208Y										0.0	0.0	0.0		
(E)PANEL 'M1'	120/208Y										0.0	0.0	0.0		
(E)PANEL 'M2'	120/208Y	0.0	0.0	0.0	0.0	9.7	0.0	0.0	1.2	10.9	30.3	10.9	30.3		
SUB TOTAL		0.0	13.7	0.0	0.0	60.7	8.4	0.0	61.8	0.0	144.7	401.8	143.5	398.7	

- GENERAL NOTES:**
- CONDUIT, CONDUCTORS AND AIC CALCULATIONS FOR ALL SERVICE, PANEL AND EQUIPMENT FEEDERS INDICATED ON THE ONE-LINE HAVE BEEN SIZED BASED ON COPPER. THE CONTRACTOR MAY USE COMPRESSED ALUMINUM CONDUCTORS FOR THESE FEEDERS PROVIDING THE CONDUIT, CONDUCTOR SIZES AND AIC CALCULATIONS ARE ADJUSTED AS REQUIRED TO MEET ALL NATIONAL ELECTRICAL CODE REQUIREMENTS.
 - FURNISH AND INSTALL ENGRAVED LABEL ON THE FRONT OF ALL ELECTRICAL EQUIPMENT NOTING THE AVAILABLE FAULT CURRENT VALUE SHOWN.

- KEYED NOTES:**
- DISCONNECT AND REMOVE BONDING JUMPER BETWEEN THE NEUTRAL AND GROUND BUS AS REQUIRED. COORDINATE WITH EXISTING CONDITIONS.
 - EXTEND AND RECONNECT THE EXISTING GROUNDING ELECTRODE SYSTEM TO THE NEW SERVICE AS REQUIRED. COORDINATE WITH EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
 - DISCONNECT AND REMOVE EXISTING PANELS 'H1' AND 'H2'. INTERCEPT THE EXISTING PANEL 'H' FEEDERS AT THE FEEDER PULLBOX LOCATED IN ELECTRICAL ROOM 145A AND EXTEND TO NEW PANEL 'H'. EXTEND ALL EXISTING PANEL 'H' AND 'H1' BRANCH CIRCUITS THAT ARE TO REMAIN TO NEW PANEL 'H'. EXISTING CONDUIT, BOXES, AND CONDUCTORS MAY BE REUSED WHERE APPLICABLE. PROVIDE NEW CONDUIT, BOXES, AND CONDUCTORS AS REQUIRED. RE: OVERALL PLAN FOR NEW PANEL LOCATION.
 - DISCONNECT AND REMOVE EXISTING PANELS 'E' AND 'F'. INTERCEPT THE EXISTING PANEL 'E' FEEDERS AT THE FEEDER PULLBOX LOCATED IN ELECTRICAL ROOM 145A AND EXTEND TO NEW PANEL 'E'. EXTEND ALL EXISTING PANEL 'E' BRANCH CIRCUITS THAT ARE TO REMAIN TO NEW PANEL 'E'. EXISTING CONDUIT, BOXES, AND CONDUCTORS MAY BE REUSED WHERE APPLICABLE. PROVIDE NEW CONDUIT, BOXES, AND CONDUCTORS AS REQUIRED. RE: OVERALL PLAN FOR NEW PANEL LOCATION.
 - DISCONNECT AND REMOVE EXISTING CONDUIT AND FEEDERS BETWEEN THE EXISTING PANELS.
 - DISCONNECT AND REMOVE EXISTING PANEL 'CH' LOCATED IN THE STORAGE ROOM UNDER NEW MULTI-PURPOSE CLASSROOM 147. REMOVE ALL CONDUIT, CONDUCTORS, AND JUNCTION BOXES BACK TO EXISTING DISTRIBUTION PANEL 'MDP' AND MARK BREAKER AS SPARE. EXTEND ALL EXISTING TO REMAIN BRANCH CIRCUITS TO PANEL 'H'. PROVIDE NEW CONDUIT, BOXES, AND CONDUCTORS AS REQUIRED. RE: OVERALL PLAN FOR NEW PANEL LOCATION.

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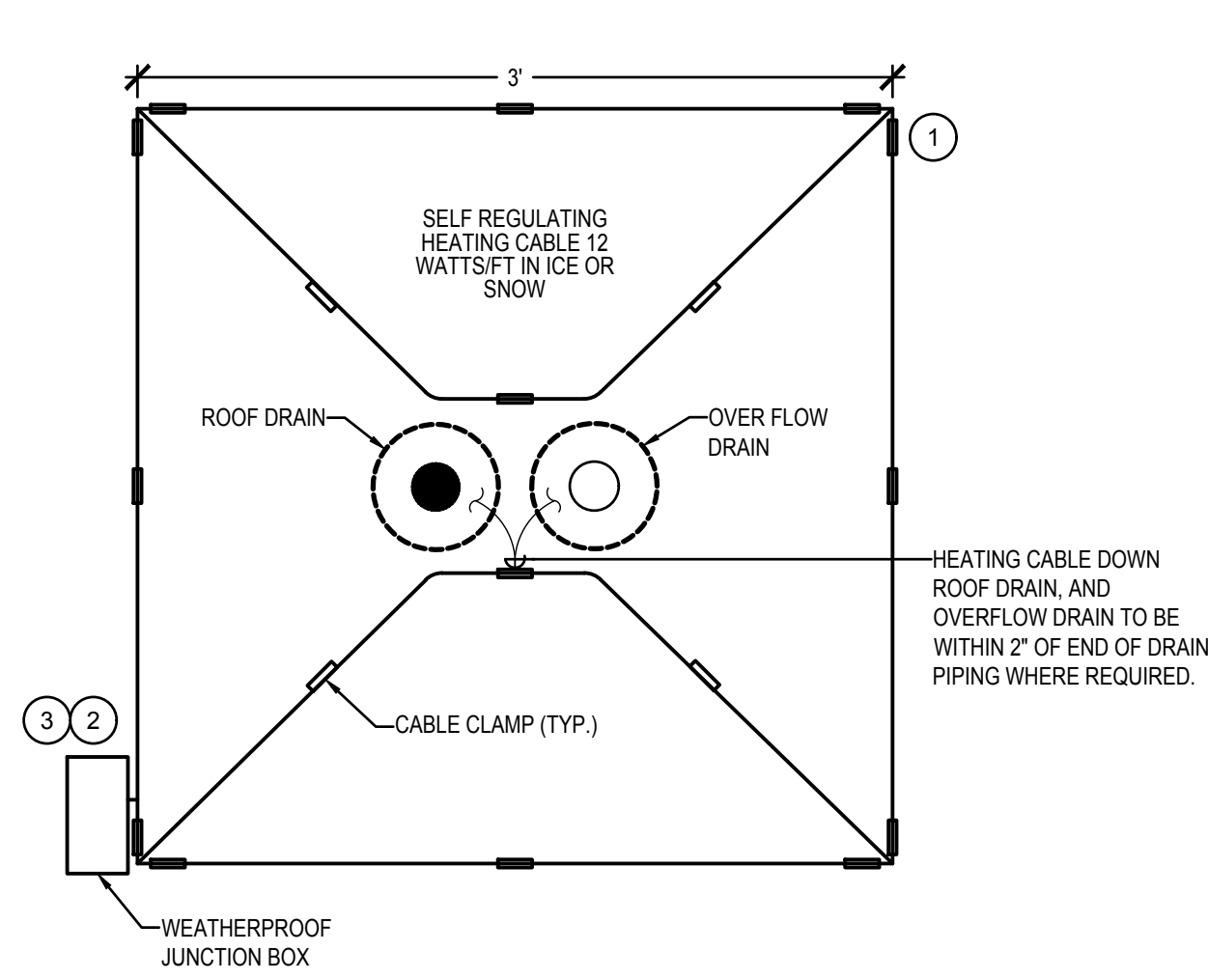
DRAWN BY: AN
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Design Development

DRAWING NO.

E-9.0

ONE-LINE DIAGRAM

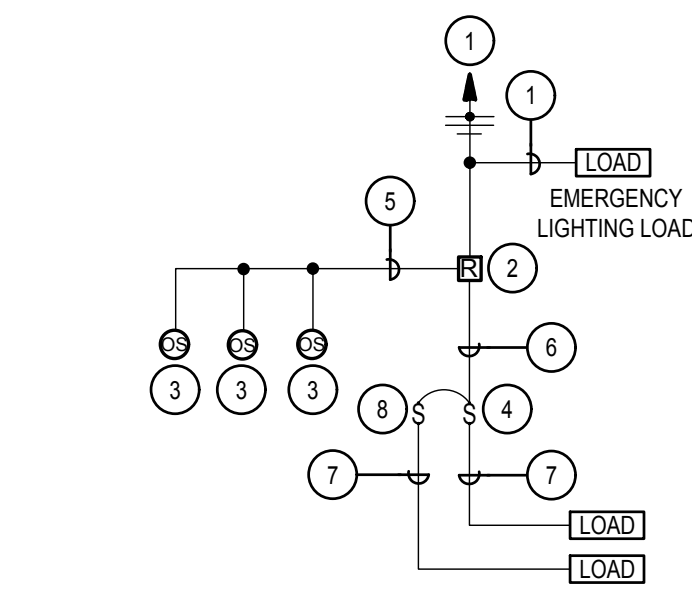


DETAIL KEYED NOTES:

SYMBOL USED FOR NOTE CALLOUT.

- DESIGN BASES ON RAYCHEM ICESTOP HEATING CABLES. PROVIDE ALL SYSTEM COMPONENTS NECESSARY FOR A COMPLETE, OPERABLE SYSTEM INCLUDING, BUT NOT LIMITED TO CABLES, CLAMPS, END SEALS AND POWER CONNECTIONS. COORDINATE WITH CIRCUIT VOLTAGE. ENGINEER APPROVED EQUALS ALLOWED.
- SERVING CIRCUIT BREAKER(S) FOR HEAT TRACE LOADS SHALL BE 30mA GFEP.
- PROVIDE AND INSTALL ONE PENTAIR DIGITRACE #AMC-1A OR EQUAL THERMOSTAT CONTROL FOR EACH CIRCUIT.

HEAT TAPE CABLING DETAIL
NTS

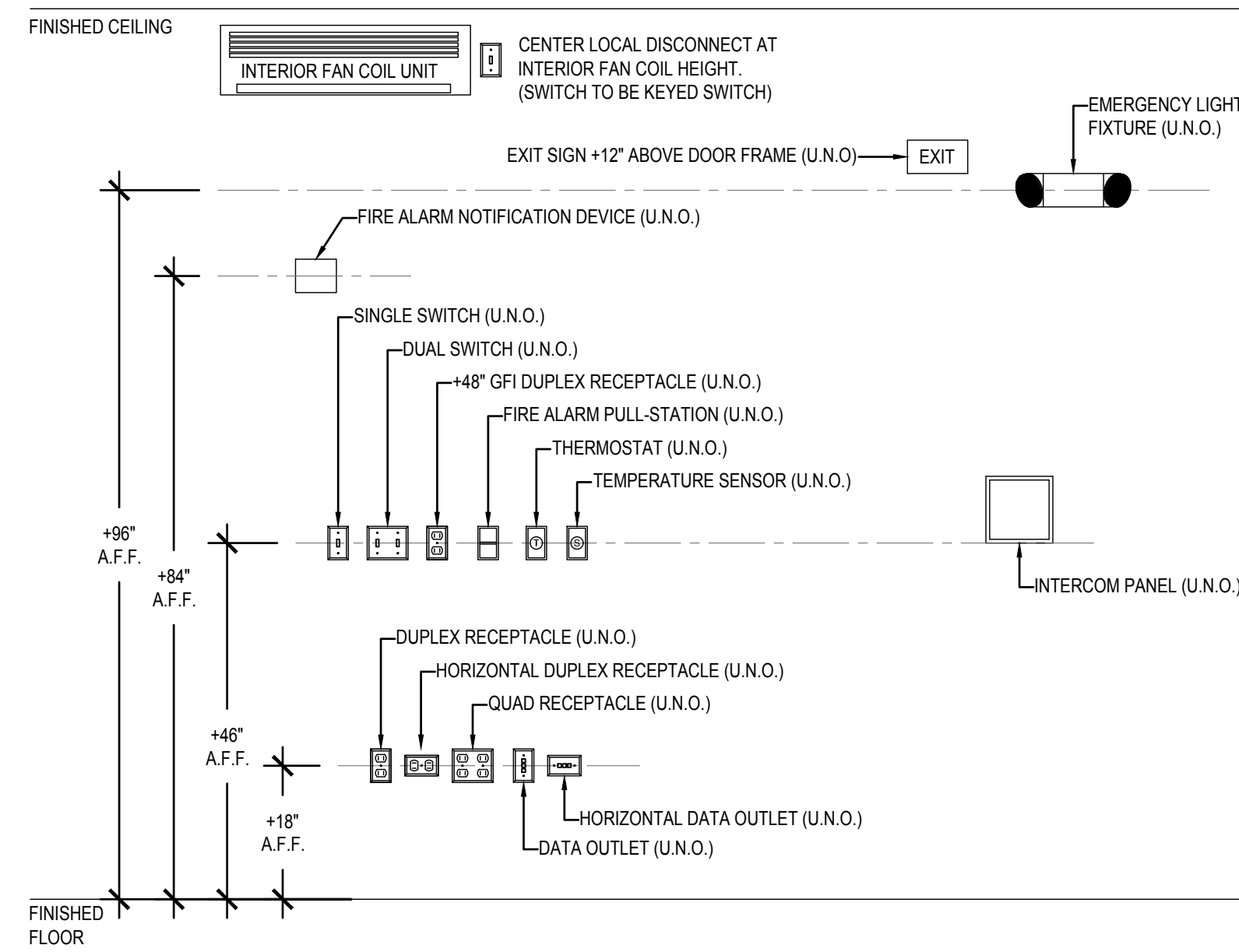


DETAIL KEYED NOTES:

SYMBOL USED FOR NOTE CALLOUT.

- UNSWITCHED LINE VOLTAGE POWER FEED FROM LOCAL PANEL.
- POWER/RELAY PACK RATED FOR UP TO 3 SENSORS AND 15A LINE VOLTAGE SWITCHING. PROVIDE QUANTITY AS REQUIRED FOR A COMPLETE INSTALLATION.
- LOW VOLTAGE OCCUPANCY SENSOR, UP TO 3 PER POWER PACK. PROVIDE WITH ISOLATED NOINC AUXILIARY CONTACTS FOR HVAC INTERLOCK. QUANTITY AS INDICATED ON PLANS. LOCATION PER THE MANUFACTURERS RECOMMENDATIONS.
- WALL MOUNTED LINE VOLTAGE SNAP SWITCH(ES), QUANTITY AND LOCATION AS INDICATED ON PLANS.
- LOW VOLTAGE POWER AND CONTROL CONDUCTORS AS REQUIRED FOR A COMPLETE INSTALLATION.
- LINE VOLTAGE SWITCHED LEG FROM RELAY PACK TO LOCAL WALL SWITCHES.
- LINE VOLTAGE SWITCHED LEG FROM SWITCHES TO LIGHTING LOAD.
- SECOND SWITCH FOR DUAL LEVEL LIGHTING WHERE INDICATED ON PLANS.

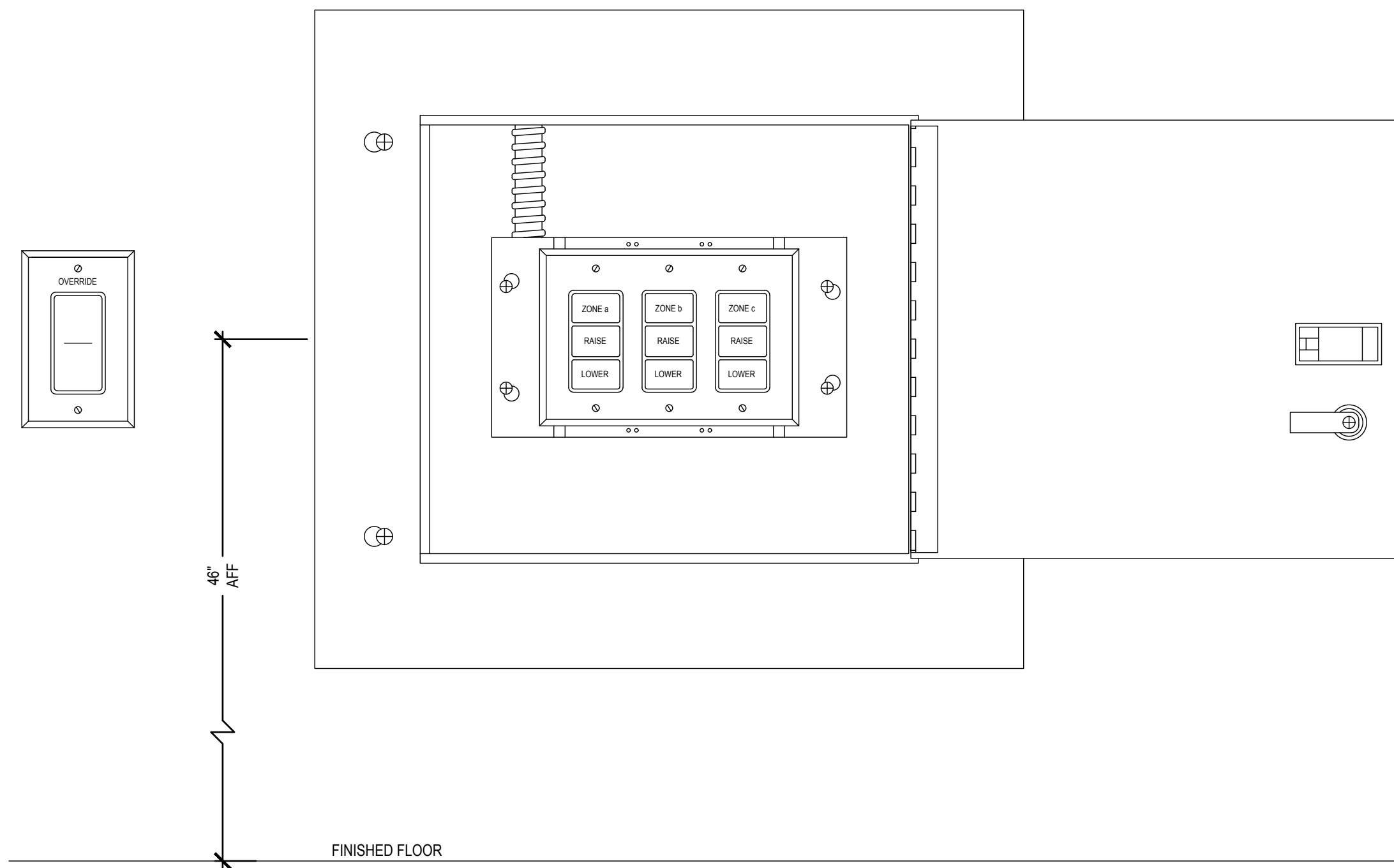
OCCUPANCY SENSORS DETAIL
NTS



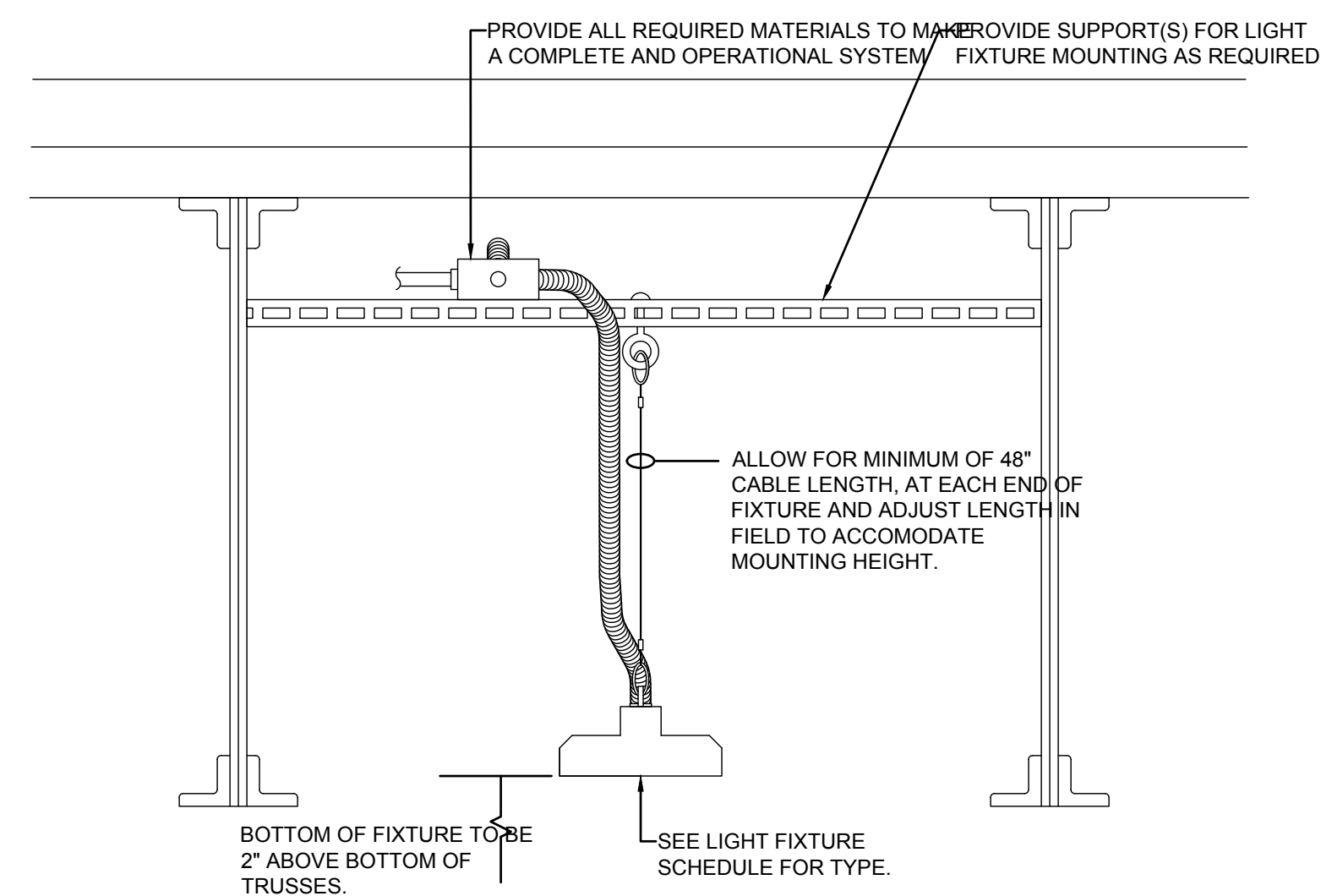
DETAIL GENERAL NOTES:

- PROVIDE FRAMING AS REQUIRED.

STANDARD MOUNTING HEIGHTS
NTS



LIGHT SWITCH ENCLOSURE DETAIL
NTS



NOTES:

- CONFIRM FIXTURE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION.
- DETAIL IS TO PROVIDE GENERAL INSTALLATION REQUIREMENTS ONLY. ALL REQUIRED MATERIALS MAY NOT BE INDICATED. PROVIDE ALL MATERIALS REQUIRED FOR A FULLY OPERATIONAL AND CODE COMPLIANT INSTALLATION.

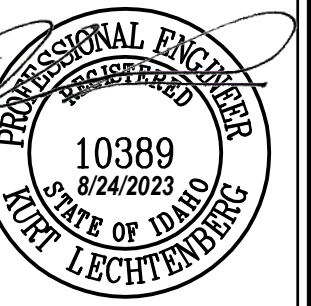
GYM LIGHT FIXTURE DETAIL
NTS



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E-9.1
ELECTRICAL DETAILS

LIGHTING FIXTURE SCHEDULE (22-104)									
TYPE	DESCRIPTION	MTG.	LAMPS	WATTS	MFG. & CATALOG NUMBER	OR EQUAL BY	NOTES		
BL1	4FT LED STRIP FIXTURE WITH LENS FINISH WHITE	CEILING SURFACE	LED 3000 LUMENS 4000K	20.3	LITHONIA NO. CLXL48-3000LM-SEF-RDL-MVOLT-GZ10-40K-80CRI-WH (PROVIDE WITH 'E10WVCP-SPD' OPTION FOR EMERGENCY FIXTURES)	COLUMBIA LIGHTING METALUX	1		
BL2	4FT LED STRIP FIXTURE WITH LENS FINISH MATTE BLACK, 1% DIMMING STAGE LIGHTING	CHAIN HUNG	LED 3000 LUMENS 4000K	20.3	LITHONIA NO. CLXL48-3000LM-SEF-RDL-MVOLT-EZ1-40K-80CRI-MB-THCLXMB-HC36M12 (PROVIDE WITH 'E10WVCP-SPD' OPTION FOR EMERGENCY FIXTURES)	COLUMBIA LIGHTING METALUX	1		
BL3	2FT LED STRIP FIXTURE WITH LENS FINISH WHITE	CEILING SURFACE	LED 1500 LUMENS 4000K	20.3	LITHONIA NO. CLXL24-1500LM-SEF-RDL-MVOLT-GZ10-40K-80CRI-WHE-10WVCP-SPD (PROVIDE WITH 'E10WVCP-SPD' OPTION FOR EMERGENCY FIXTURES)	COLUMBIA LIGHTING METALUX	1		
EX1	SINGLE FACED, THERMOPLASTIC EXIT SIGN, GREEN LETTERING WITH CADMIUM BATTERY AND SELF DIAGNOSTIC	AS NOTED ON DRAWINGS	LED	0.7	LITHONIA NO. LQM-S-W-3-G-MVOLT-ELN-SD	COMPASS MULE - RMX SERIES	1		
FL1	RECESSED 1X4 FLANGED LED WITH ACRYLIC LENS AND BATTERY BACKUP	CEILING RECESSED	LED 3078 LUMENS 4000K	27	LITHONIA NO. EPANL-1X4-3000LM-80CRI-40K-MIN10-ZT-MVOLT-E10WVCP-DGA14 (PROVIDE WITH 'E10WVCP' OPTION FOR EMERGENCY FIXTURES)	COLUMBIA LIGHTING METALUX	1		
FL2	RECESSED 4FT FLANGED LINEAR LED	CEILING RECESSED	LED 3200 LUMENS 4000K	34	PEERLESS NO. OPRS-FL-LOP-4FT-80CRI-40K-800LMF-MIN1-ZT-120-SC-0041		1		
FL3	2X2 TUNABLE WHITE LED TROFFER WITH DRYWALL FLANGE	RECESSED CEILING	LED 2000 LUMENS TUNABLE	16.31	LITHONIA NO. 2BLT2-TUWH-RHYR-20L-30L-ADP-NLT-EL7-L7G-DAZ2 (PROVIDE WITH TUNABLE CONTROLS)	COLUMBIA LIGHTING METALUX	1.3		
GL1	2X4 LED VOLUMETRIC TROFFER	CEILING GRID	LED 4000 LUMENS 4000K	31.7	LITHONIA NO. 2BLT4-40L-ADP-GZ1-LP840 (PROVIDE WITH 'EL14LSD' OPTION FOR EMERGENCY FIXTURES)	COLUMBIA LIGHTING METALUX	1		
GL2	2X4 LED VOLUMETRIC TROFFER	CEILING GRID	LED 3000 LUMENS 4000K	23.6	LITHONIA NO. 2BLT4-30L-ADP-GZ1-LP840 (PROVIDE WITH 'EL14LSD' OPTION FOR EMERGENCY FIXTURES)	COLUMBIA LIGHTING METALUX	1		
GL3	RECESSED GRID 2X4 FLAT PANEL WITH BATTERY PACK AND SELF DIAGNOSTICS	CEILING GRID	LED 4000 LUMENS 4000K	38	LITHONIA NO. EPANL-2X4-4000LM-80CRI-40K-MIN1-ZT-MVOLT (PROVIDE WITH 'E10WVCP' OPTION FOR EMERGENCY FIXTURES)	COLUMBIA LIGHTING METALUX	1		
HB1	LED HIGH BAY, CABLE HUNG, WIRE GUARD, WITH BATTERY PACK AND SELF DIAGNOSTICS.	AIRCRAFT CABLE +23-0" UNO	LED 15000 LUMENS 4000K	105	LITHONIA NO. IBE-L24-1500LM-SD080-MD-MVOLT-GZ10-40K-80CRI-DWH-IBAC120M20-WGIBE (PROVIDE WITH 'E15WVCP' OPTION FOR EMERGENCY FIXTURE)	COLUMBIA LIGHTING METALUX	1		
RL1	LED ROUND RECESSED, 6" APERTURE	CEILING RECESSED	LED 1000 LUMENS 4000K	10.4	LITHONIA NO. LDN6-40-10-L06AR-LSS-MVOLT-GZ1 (PROVIDE WITH 'ELSD' OPTION FOR EMERGENCY FIXTURES)	COLUMBIA LIGHTING METALUX	1		
RL2	LED ROUND RECESSED, 6" APERTURE	CEILING RECESSED	LED 2000 LUMENS 4000K	22.5	LITHONIA NO. LDN6-40-20-L06AR-LSS-MVOLT-GZ1 (PROVIDE WITH 'ELSD' OPTION FOR EMERGENCY FIXTURES)	COLUMBIA LIGHTING METALUX	1		
SL1	SURFACE MOUNTED 1X4 LED TROFFER WITH SURFACE MOUNT ENCLOSURE INTEGRAL OCCUPANCY AND PHOTO SENSORS	CEILING SURFACE	LED 2000 LUMENS 4000K	15.7	LITHONIA NO. BLT4-20L-ADP-EZ1-LP840-MSPDPT7ADCC-1X4SMKSH (PROVIDE WITH 'EL14L' OPTION FOR EMERGENCY FIXTURES)	COLUMBIA LIGHTING METALUX	1		
SL2	LED ROUND SURFACE, 7" APERTURE	CEILING SURFACE	LED 1000 LUMENS 4000K	13	JUNO NO. JSF-7IN 10LM-40K-90CRI-MVOLT-ZT-WH-EL	METALUX COLUMBIA LIGHTING	1		
SL3	SURFACE MOUNTED 2X4 LED TROFFER WITH SURFACE MOUNT ENCLOSURE	CEILING SURFACE	LED 3000 LUMENS 4000K	38	LITHONIA NO. 2BLT4-30L-ADP-GZ1-LP840-2X4SMKSH (PROVIDE WITH 'E10WVCP' OPTION FOR EMERGENCY FIXTURES)	COLUMBIA LIGHTING METALUX	1		
TL1	12' TRACK LIGHTING, 2-CIRCUIT, 2-NEUTRALS, (6) DIMMABLE LED FIXTURES, (3) COLOR FILTERS, 24-DEGREE FOCAL BEAM, BLACK FINISH	SUSPENDED BOTTOM OF STRUCTURE	LED 1023 LUMENS 4000K	15W PER HEAD	LITHONIA NO. TRACK: TEK412-BL FIXTURE HEAD: T254L-TEK-GZ-40K-80CRI-PDIM-NFL-BL	INTENSE LIGHTING	1.2		
WB1	4' LED WALL MOUNTED FIXTURE	WALL MOUNTED ABOVE VANITY	LED 2000 LUMENS 4000K	18.7	LITHONIA NO. WL4-20L-EZ1-LP840	METALUX LITECONTROL	1		
WB2	2' LED WALL MOUNTED FIXTURE	WALL MOUNTED ABOVE VANITY	LED 1800 LUMENS 400K	12.2	LITHONIA NO. WL2-18L-EZ1-LP840	METALUX LITECONTROL	1		
WP1	LED WALL PACK	WALL MOUNTED +10'-6" UNO	LED 2,244 LUMENS 4000K	20	LITHONIA NO. WSQ-P-1-40K-SSR3-MVOLT-PE120-DOBXD (PROVIDE WITH 'E4WH' OPTION FOR EMERGENCY FIXTURES)	MCGRAW EDISON HUBBELL	1		

LIGHTING FIXTURE SCHEDULE NOTES:
 1. SUBSTITUTIONS WILL BE ALLOWED IF SUBMITTED PRIOR TO BID DATE BY THE GREATER OF: 7 BUSINESS DAYS OR THE TIME PERIOD SPECIFIED BY DIVISION 1 SPECIFICATIONS, AND IF DEEMED EQUAL BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING SUBSTITUTED FIXTURES MEET OR EXCEED THE SPECIFICATIONS OF THE FIXTURES SPECIFIED.
 2. PROVIDE WITH PHASED DIMMING PACK CAPABLE OF DIMMING 3-WIRE LINE VOLTAGE BALLASTS DOWN TO 1% WITH OUT FLICKER SUCH AS nLight 'nSP5 PCD' OR EQUAL. REFER TO TRACK HEAD COMPATIBLE DIMMER LIST TO PROVIDE RECOMMENDED DIMMER WITH OUT FLICKER DOWN TO 1%
 3. PROVIDE WITH ALL ACCESSORIES REQUIRED TO ESTABLISH TUNABLE CONTROLS.

LIGHTING CONTROL ZONE SCHEDULE		
ZONE	DESCRIPTION	CKTS
1	EXTERIOR BUILDING LIGHTS, NEW GYM	N-2
2	CORRIDOR AND FOYER LIGHTING, NEW GYM	N-1
3	GYMNASIUM LIGHTING	N-3
4	GYMNASIUM LIGHTING	N-4
5	SPARE	
6	SPARE	
7	SPARE	
8	SPARE	

NOTES:
 1. PROVIDE UNSWITCHED LEG TO EGRESS FIXTURES.
 2. PROVIDE TIMECLOCK PROGRAMMING AS REQUIRED.
 COORDINATE TIME SCHEDULE WITH OWNER.

PANEL: K		PROJECT: JEFFERSON ELEMENTARY SCHOOL ADDITION AND REMODEL													
VOLTAGE: 208 / 120 V		3 PH		4 WIRE		AMPERE RATING: 400A		WITH 400A		MLO		MOUNTING: FLUSH			
BASIS OF DESIGN PANEL TYPE:		PANEL BOARD		NEMA ENCLOSURE TYPE		1		PANEL AIC RATING:		10000 AIC					
CKT NOTES:		REMARKS:													
1. GFCI FOR PERSONNEL PROTECTION (5mA)		TWO SECTION BOARD. PROVIDE SECTION 1 WITH FEED THROUGH LUGS.													
2. GFCI FOR EQUIPMENT PROTECTION (30mA)		MAINTAIN SPECIFIED CONDUIT AND FEEDER SIZE FROM SECTION 1 TO SECTION 2													
3. RED HANDLE, LOCKABLE BREAKER															
4. SHUNT TRIP BREAKER															
CKT	DESCRIPTION	CKT NOTE	LOAD VA	LOAD AMPS	AMPS/POLES	LOAD (VA)			AMPS/POLES	LOAD VA	LOAD AMPS	CKT NOTE	DESCRIPTION	CKT	
1	K1-DISHWASHER		3936	32.8	40	4851.2			20	3	10.6	915		K3-DISPOSAL	2
3	***		3936	32.8	**	4851.2			**	1	10.6	915		***	4
5	***		3936	32.8	**	4851.2			**	1	10.6	915		***	4
7	K12-BOOSTER HEATER (EXTERNAL)		4000	33.3	50	4000			20	2	9.6	2000	4	K5-SHOT FOOD CABINET	8
9	***		4000	33.3	**	6000			20	2	9.6	2000	4	K5-SHOT FOOD CABINET	10
11	***		4000	33.3	**	6000			20	2	9.6	2000	4	K5-SHOT FOOD CABINET	12
13	K9-CONVECTION OVEN (GAS DBL STACK)	4	1920	16.0	20	2640			20	1	6.0	720		K6-REACH-IN FRIDGE	14
15	K9-SHUNT TRIP	4	1920	16.0	**	800			20	2	7.7	800		K7-2 WELL STEAM DROP-IN	16
17	K9-CONVECTION OVEN (GAS DBL STACK)	4	1920	16.0	20	2720			20	1	7.7	800		***	18
19	K9-SHUNT TRIP	4	1920	16.0	**	800			20	1	6.7	800		K7-2 WELL STEAM DROP-IN	20
21	K10-30 QUART MIXER	4	1140	9.5	20	1940			20	1	6.7	800		***	22
23	K11-60 QUART MIXER	4	1200	10.0	20	1920			20	1	6.0	720		K9-ICE MAKER	24
25	***		1200	10.0	**	3120			20	2	16.0	1920	4	K18-COMBI OVEN (GAS SINGLE STACK)	26
27	***		1200	10.0	**	1200			**	1			4	K18-SHUNT TRIP	28
29	K16a-WALK-IN COOLER (FAN COIL)	6	500	4.2	20	2420			20	2	16.0	1920	4	K18-COMBI OVEN (GAS SINGLE STACK)	30
31	SPARE		0.0	0.0	20	0			**	*			4	K18-SHUNT TRIP	32
33	K17a-WALK-IN FREEZER (FAN COIL)	6	250	2.4	20	850			20	2	5.0	600	4	K19-STEAM KETTLE (GAS)	34
35	***		250	2.4	**	250			**	*			4	K19-SHUNT TRIP	36
37	K16-WALK-IN COOLER (CONDENSER)	6	2880	24.0	30	3480			20	2	5.0	600	4	K19-STEAM KETTLE (GAS)	38
39	***		2880	24.0	**	2880			**	1			4	K19-SHUNT TRIP	40
41	***		2880	24.0	**	3600			20	1	6.0	720		K20-FOOD SLICER	42
43	K17-WALK-IN FREEZER (CONDENSER)	6	2800	23.3	30	4228			20	3	11.9	1428		MAU-1.1	44
45	***		2800	23.3	**	4228			**	*	11.9	1428		***	46
47	***		2800	23.3	**	4228			**	*	11.9	1428		***	48
49	WALK-IN COOLER/FREEZER HEAT TAPE	2	900	7.5	20	1452			20	1	4.6	552		EF-1.1 (H+1.1)	50
51	POS MACHINES, KITCHEN/CATERERIA	7	720	6.0	20	1272			20	1	4.6	552		***	52
53	MILK COOLER/CATERERIA	7	720	6.0	20	1272			20	1	4.6	552		***	54
55	MOTORIZED ROLLUP DOOR	5	540	4.5	20	1092			20	1	4.6	552		EF-1.2 (H+1.2)	56
57	MOTORIZED ROLLUP DOOR	5	540	4.5	20	1092			20	1	4.6	552		***	58
59	REC-KITCHEN 152/DISHROOM 155	9	900	7.5	20	1452			20	1	4.6	552		***	60
61	REC-KITCHEN 152/DISHROOM 155	5	540	4.5	20	1413			20	1	7.3	873		EF-1.3	62
63	REC-KITCHEN 152/JAN 151/STOR 154	7	720	6.0	20	1320			20	1	5.0	600		HOOD CONTROL PANEL 'HOP' & HOOD LTS	64
65	REC-MCROWAVE	12	1200	10.0	20	1200			20	1	0.0			SPARE	66
67	REC-KITCHEN 152	18	180	1.5	20	780			20	1	5.0	600		GROUND FAULT RELAY CABINET 'GFR'	68
69	REC-KITCHEN 152	3	360	3.0	20	360			20	1	0.0			SPARE	70
71	WH-1, JANITOR 151	3	360	3.0	20	360			20	1	0.0			SPARE	72
73	REC-OFFICE 153	9	900	7.5	20	900			20	1	0.0			SPARE	74
75	SPARE		0.0	0.0	20	0			20	1	0.0			SPARE	76
77	SPARE		0.0	0.0	20	0			20	1	0.0			SPARE	78
79	SPARE		0.0	0.0	20	0			20	1	0.0			SPARE	80
81	SPARE		0.0	0.0	20	0			20	1	0.0			SPARE	82
83	SPARE		0.0	0.0	20	0			20	1	0.0			SPARE	84
						28756.2	26793.2	29358.0	VA						
						238.6	223.3	244.7	AMPS		84907		TOTAL VA		

PANEL: H		PROJECT: JEFFERSON ELEMENTARY SCHOOL ADDITION AND REMODEL													
VOLTAGE: 208 / 120 V		3 PH		4 WIRE		AMPERE RATING: 200A		WITH 200A		MLO		MOUNTING: SURFACE			
BASIS OF DESIGN PANEL TYPE:		PANEL BOARD		NEMA ENCLOSURE TYPE		1		PANEL AIC RATING:		10000 AIC					
CKT NOTES:		REMARKS:													
1. GFCI FOR PERSONNEL PROTECTION (5mA)		NEW PANEL WITH MAIN LUG ONLY.													
2. GFCI FOR EQUIPMENT PROTECTION (30mA)		EXTEND CONDUITS AND CONDUCTORS FROM DEMOLISHED PANELS 'H' AND 'H1' TO NEW PANEL 'H' LOCATION.													
3. RED HANDLE, LOCKABLE BREAKER															
CKT	DESCRIPTION	CKT NOTE	LOAD VA	LOAD AMPS	AMPS/POLES	LOAD (VA)			AMPS/POLES	LOAD VA	LOAD AMPS	CKT NOTE	DESCRIPTION	CKT	
1	RTU-1.4 (KITCHEN)		4680	39.0	50	7908			40	3	26.9	3228		(E)RTU-1.3 W/ (N) POWER EXHAUST	2
3	***		4680	39.0	**	7908			**	*	26.9	3228		***	4
5	***		4680	39.0	**	7908			**	*	26.9	3228		***	6
7	EF-1.8, ROOF		506	4.2	20	1226			20	1	6.0	720		REC-RR 139/141	8
9	EF-1.9, ROOF		667	5.6	20	1027			20	1	3.0	360		REC-IT SERVER 150	10
11	EF-1.4/EF-1.12, TOILET 144/FACULTY 145		100	0.8	20	460			20	1	3.0	360		REC-IT SERVER 150	12
13	CONDENSATE (DFC 1.1)		60	0.5	20	420			20	1	3.0	360		REC-IT SERVER 150	14
15	REC-ROOF		360	3.0	20	720			20	1	3.0	360		REC-IT SERVER 150	16
17	PLUMBING XFORMER, RR 139/141	1	180	1.5	20	180			20	1	0.0			REC-CLASSROOM 168	18
19	LTS-KITCHEN152, DISH 155, FACULTY 145		1050	8.8	25	1050			20	1	0.0			REC-CLASSROOM 168	20
21	REC-CLASSROOM 134														

PANEL: E																	
PROJECT: JEFFERSON ELEMENTARY SCHOOL ADDITION AND REMODEL																	
VOLTAGE: 208 / 120 V		3 PH	4 WIRE	AMPERE RATING: 200A	WITH 200A	M.O.	MOUNTING: SURFACE										
BASIS OF DESIGN PANEL TYPE: PANEL BOARD		NEMA ENCLOSURE TYPE: 1			PANEL AIC RATING: 10000 AIC												
CKT NOTES: 1. GFCl FOR PERSONNEL PROTECTION (5mA) 2. GFEP FOR EQUIPMENT PROTECTION (30mA) 3. RED HANDLE LOCKABLE BREAKER			REMARKS: EXTEND CONDUITS AND CONDUCTORS FROM DEMOLISHED PANEL 'E' TO NEW PANEL 'E' LOCATION														
CKT	DESCRIPTION	CKT NOTE	LOAD VA	LOAD AMPS	AMPS/POLES	LOAD (VA)			AMPS/POLES	LOAD AMPS	LOAD VA	CKT NOTE	DESCRIPTION	CKT			
						A	B	C									
1	(E)REC-LOUNGE			0.0	20	1				20	1	0.0	(ELTS-RM6)	2			
3	(E)REC-LOUNGE			0.0	20	1				20	1	0.0	(ELTS-RM6)	4			
5	(ELTS-LOUNGE			0.0	20	1				20	1	0.0	(E)REC-WEST	6			
7	(ELTS-LOUNGE			0.0	20	1				20	1	0.0	(E)REC-EAST	8			
9	(ELTS-HALLWAY			0.0	20	1				20	1	0.0	(ELTS-RM3)	10			
11	(ELTS-RR & EXHAUST FANS			0.0	20	1				30	3	21.9	(NRTL-1.25, ROOF (BID ALT #2)	12			
13	(ELTS-RM4			0.0	20	1		2628					***	14			
15	(E)REC-WEST			0.0	20	1		2628					***	16			
17	(E)REC-WEST			0.0	20	1			0				20	1	0.0	(ELTS-RM2)	18
19	(ELTS-RM1			0.0	25	1							20	1	0.0	(ELTS-OUTSIDE)	20
21	(ELTS-RM1			0.0	20	1			0				20	1	0.0	EXISTING	22
23	(ELTS-RM1			0.0	20	1				0			20	1	0.0	(ELTS-HALLWAY	24
25	(E)HEAT CLASSROOM			0.0	20	1		2628					30	3	21.9	(NRTL-1.22, ROOF (BID ALT #2)	26
27	(E)HEAT CLASSROOM			0.0	20	1		2628					**	*	21.9	2628	28
29	(ELTS TUNNEL			0.0	20	1			2628				**	*	21.9	2628	30
31	(NRTL-1.20, ROOF (BID ALT #2)			3228	26.9	40	3	5856					30	3	21.9	2628	32
33	***			3228	26.9	**	*		5856				**	*	21.9	2628	34
35	***			3228	26.9	**	*			5856			**	*	21.9	2628	36
37	(NRTL-1.21, ROOF (BID ALT #2)			2628	21.9	30	3	5256					30	3	21.9	2628	38
39	***			2628	21.9	**	*			5256			**	*	21.9	2628	40
41	***			2628	21.9	**	*				5256		**	*	21.9	2628	42
						16368.0	16368.0	16368.0	VA								
						136.4	136.4	136.4	AMPS	49104 TOTAL VA							

PANEL: L																		
PROJECT: JEFFERSON ELEMENTARY SCHOOL ADDITION AND REMODEL																		
VOLTAGE: 208 / 120 V		3 PH	4 WIRE	AMPERE RATING: 400A	WITH 400A	M.O.	MOUNTING: FLUSH											
BASIS OF DESIGN PANEL TYPE: PANEL BOARD		NEMA ENCLOSURE TYPE: 1			PANEL AIC RATING: EXISTING													
CKT NOTES: 1. GFCl FOR PERSONNEL PROTECTION (5mA) 2. GFEP FOR EQUIPMENT PROTECTION (30mA) 3. RED HANDLE LOCKABLE BREAKER 4. EXISTING BREAKER			REMARKS: EXISTING PANEL 5. NEW BREAKER															
CKT	DESCRIPTION	CKT NOTE	LOAD VA	LOAD AMPS	AMPS/POLES	LOAD (VA)			AMPS/POLES	LOAD AMPS	LOAD VA	CKT NOTE	DESCRIPTION	CKT				
						A	B	C										
1	(ELTS-EXTERIOR			4	1400	11.7	20	1	2900						2			
3	(ELTS-CLASSROOM			4	1400	11.7	20	1		5708				50	3	35.9	4308	4
5	(ELTS-CLASSROOM			4	1400	11.7	20	1			5708			**	*	35.9	4308	6
7	(ELTS-CORRIDOR/OFFICE			4	700	5.8	20	1	5008					**	*	35.9	4308	8
9	(ELTS-MEDIA CENTER			4	1100	9.2	20	1		3728				50	3	21.9	2628	10
11	(ELTS-MEDIA CENTER			4	1200	10.0	20	1			3828			**	*	21.9	2628	12
13	(E)ROOF			4	1000	8.3	20	1	3628					**	*	21.9	2628	14
15	(E)RR EXHAUST FANS			4	1400	11.7	20	1		5708				50	3	33.5	4308	16
17	(NEH-1.6, VEST. 201			5	1000	9.6	20	2		5308.431				**	*	33.5	4308	18
19	***			5	1000	9.6	**	*	4467					**	*	33.5	3467	20
21	(NRTL-1.18, ROOF (BID ALT #2)			5	6360	53.0	70	3		10668				100	3	35.9	4308	22
23	***			5	6360	53.0	**	*		10668				**	*	35.9	4308	24
25	***			5	6360	53.0	**	*	10668					**	*	35.9	4308	26
27	SPARE			4	0.0	0.0	20	1		3467				50	3	28.9	3467	28
29	SPARE			4	0.0	0.0	20	1			3467			**	*	28.9	3467	30
31	SPARE			4	0.0	0.0	20	1	3467					**	*	28.9	3467	32
33	SPARE			4	0.0	0.0	20	1		6900				100	3	57.5	6900	34
35	BLANK			0.0	0.0	0.0	20	1			6900			**	*	57.5	6900	36
37	BLANK			0.0	0.0	0.0	20	1			6900			**	*	57.5	6900	38
39	BLANK			0.0	0.0	0.0	20	1			1000			20	2	9.6	1000	40
41	BLANK			0.0	0.0	0.0	20	1				1000		**	*	9.6	1000	42
						37038.0	37179.0	36879.4	VA									
						308.7	309.8	307.3	AMPS	111096.4308 TOTAL VA								

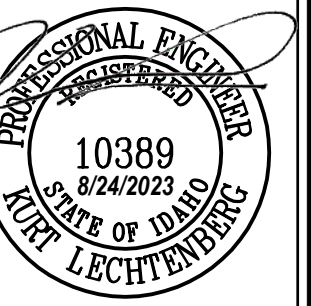
PANEL: LC																		
PROJECT: JEFFERSON ELEMENTARY SCHOOL ADDITION AND REMODEL																		
VOLTAGE: 208 / 120 V		3 PH	4 WIRE	AMPERE RATING: 200A	WITH 200A	M.O.	MOUNTING: FLUSH											
BASIS OF DESIGN PANEL TYPE: PANEL BOARD		NEMA ENCLOSURE TYPE: 1			PANEL AIC RATING: EXISTING													
CKT NOTES: 1. GFCl FOR PERSONNEL PROTECTION (5mA) 2. GFEP FOR EQUIPMENT PROTECTION (30mA) 3. RED HANDLE LOCKABLE BREAKER 4. EXISTING BREAKER			REMARKS: EXISTING PANEL 5. NEW BREAKER															
CKT	DESCRIPTION	CKT NOTE	LOAD VA	LOAD AMPS	AMPS/POLES	LOAD (VA)			AMPS/POLES	LOAD AMPS	LOAD VA	CKT NOTE	DESCRIPTION	CKT				
						A	B	C										
1	(E)ROOM 18			4	0.0	20	1	0						4	(E)ROOM 18	2		
3	(E)ROOM 18			4	0.0	20	1			0				4	(E)ROOM 18	4		
5	(E)ROOM 18			4	0.0	20	1				0			4	(E)ROOM 18	6		
7	(E)ROOM 20			4	0.0	20	1	0						20	1	0.0	(E)ROOM 20	8
9	(E)ROOM 20			4	0.0	20	1			0				20	1	0.0	(E)ROOM 20	10
11	(E)ROOM 20			4	0.0	20	1				0			20	1	0.0	(E)ROOM 20	12
13	(E)ROOM 28 GFCl			4	0.0	20	1	0						5	(E)CORRIDOR & EXHAUST FAN	14		
15	(E)ROOM 20 GFCl			4	0.0	20	1			0				4	(E)MEDIA CENTER OFFICE	16		
17	(E)DATA RACK			4	0.0	20	1				0			4	(E)OFFICE	18		
19	(E)DATA RACK			4	0.0	20	1	0						20	1	0.0	(E)OFFICE	20
21	(E)MEDIA CENTER			4	0.0	20	1			0				4	(E)MEDIA CENTER	22		
23	(E)MEDIA CENTER			4	0.0	20	1				0			4	(E)MEDIA CENTER	24		
25	(E)MEDIA CENTER			4	0.0	20	1	0						4	(E)MEDIA CENTER	26		
27	(E)EWC			4	0.0	20	1		1260					20	1	10.5	1260	28
29	REC-RECEPTION DESK			4	540	4.5	20	1			1800			20	1	10.5	1260	30
31	(E)RECEPTION BATHROOM			4	0.0	20	1	1260						20	1	10.5	1260	32
33	(E)COPIER			4	0.0	20	1		1260					20	1	10.5	1260	34
35	(E)CONFERENCE ROOM			4	0.0	20	1				360			20	1	3.0	360	36
37	(E)PRINCIPAL OFFICE			4	0.0	20	1	360						20	1	3.0	360	38
39	(E)TEST, SICK, SECRETARY			4	0.0	20	1		0					20	1	0.0		40
41	(E)RECEPTION COUNTER			4	0.0	20	1				0			20	1	0.0		42
						1620.0	2520.0	2160.0	VA									
						13.5	21.0	18.0	AMPS	6300 TOTAL VA								



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Revisions	Date	Description
#	05/11/2023	Addendum #1

**Jefferson Elementary School
Addition and Remodel**
600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
LKV PROJECT # -
REVISIONS:

DRAWN BY: AN
CHECKED BY: KL

Design Development

DRAWING NO.

E-10.2
ELECTRICAL SCHEDULES