Addendum No. 1
May 11, 2023

JSD Jefferson E.S.

Bid date will be Thursday May 18, 2023. Bids due prior to 2:00PM.

This addendum addresses the following:

- Architect / Engineer Addendum Narratives.
- Revised drawings.

Attachments:

- Revised Bid Package Descriptions by Starr Corp dated 5/11/23.
- LKV Architects Addendum No. 1 dated May 11, 2023.
- Sheet E-6.1, (excluded from original bid set).

End of Add. No. 1

Jerome School District - Jefferson Elementary

Bids to Starr Corporation by May 18, 2023 at 2:00PM

ADDENDUM-01 dated 5/11/23

Bid Package No.	Package Description	Spec Section	Description	Additional Comments: All items include material, labor, and equipment for installation, unless noted otherwise.
BP-01 DEMOLITION				
01	Demolition	Division 1	General Requirements	All sections to be included in their entirety.
01	Demolition	024119	Selective Structure Demolition	Include all demolition, excerpt those specifically identified in Sitework, Fire Sprinkler, Plumbing, HVAC & Electrical bid packages.
N/A	N/A	028211	Asbestos Abatement	By Others.
N/A	N/A	028333	Lead-Based Paint Removal and Disposal	By Others.
N/A	N/A	Appendix B	Asbestos and Lead-Based Paint Testing Report	By Others.
BP-02 CONCRETE				
02	Concrete	Division 1	General Requirements	All sections to be included in their entirety.
02	Concrete	033000	Cast-in-Place Concrete	Includes all building and site concrete including reinforcement and embeds. Grading for structures & on-site concrete by Site Contractor. Curbs, gutters & sidewalk for on-site included.
02	Concrete	035416	Hydraulic Cement Underlayment	
02	Concrete	071113	BituminousDampproofing	Foundation dampproofing.
02	Concrete	072100	Thermal Insulation	Foundation & under-slab rigid insulation, only.
02	Concrete	079200	Joint Sealants	Sealants for interior concrete scope of work, only.
02	Concrete	321313	Concrete Paving	
02	Concrete	321373	Concrete Paving Joint Sealants	Sealants for exterior concrete scope of work, only.
02	Concrete	321726	Tactile Warning Surfacing	
BP-03 MASONRY				
03	Masonry	Division 1	General Requirements	All sections to be included in their entirety.
03	Masonry	042000	Unit Masonry	**ADD-01:** Include all masonry reinforcement. Include bucks for CMU openings.
03	Masonry	079200	Joint Sealants	Sealants for this scope of work only.
BP-04 STRUCTURAL STEEL (Supply & Install)				
04	Structural Steel (S/I)	Division 1	General Requirements	All sections to be included in their entirety.
04	Structural Steel (S/I)	051200	Structural Steel Framing	
04	Structural Steel (S/I)	052100	Steel Joist Framing	
04	Structural Steel (S/I)	053100	Steel Decking	
04	Structural Steel (S/I)	055000	Metal Fabrications	
04	Structural Steel (S/I)	055213	Pipe and Tube Railings	
BP-04a STRUCTURAL STEEL (Install, Only)				
04a	Structural Steel (Install)	Division 1	General Requirements	All sections to be included in their entirety.
04a	Structural Steel (Install)	051200	Structural Steel Framing	
04a	Structural Steel (Install)	052100	Steel Joist Framing	
04a	Structural Steel (Install)	053100	Steel Decking	
04a	Structural Steel (Install)	055000	Metal Fabrications	
04a	Structural Steel (Install)	055213	Pipe and Tube Railings	
BP-04b STRUCTURAL STEEL (Supply, Only)				
04b	Structural Steel (Supply)	Division 1	General Requirements	All sections to be included in their entirety.
04b	Structural Steel (Supply)	051200	Structural Steel Framing	
04b	Structural Steel (Supply)	052100	Steel Joist Framing	
04b	Structural Steel (Supply)	053100	Steel Decking	
04b	Structural Steel (Supply)	055000	Metal Fabrications	
04b	Structural Steel (Supply)	055213	Pipe and Tube Railings	
BP-05 ROUGH CARPENTRY				
05	Rough Carpentry	Division 1	General Requirements	All sections to be included in their entirety.
05	Rough Carpentry	061000	Rough Carpentry	
05	Rough Carpentry	061600	Sheathing	
05	Rough Carpentry	061753	Shop-Fabricated Wood Trusses	
05	Rough Carpentry	072700	Infiltration Barriers	
05	Rough Carpentry	097200	Digitally Printed Vinyl Wallcovering Murals	
05	Rough Carpentry	113013	Residential Appliances	
05	Rough Carpentry	079200	Joint Sealants	Sealants for this scope of work only.
BP-06 MILLWORK				
06	Millwork	Division 1	General Requirements	All sections to be included in their entirety.
06	Millwork	064116	Plastic Laminate Faced Architectural Cabinets	
06	Millwork	079200	Joint Sealants	Sealants for this scope of work only.
BP-07 ROOFING				
07	Roofing	Division 1	General Requirements	All sections to be included in their entirety.
07	Roofing	075423	Thermoplastic Polyolefin (TPO) Roofing	**ADD-01:** Include flashing & patching of all MEP roof penetrations.
07	Roofing		(3) Year Roofing Warranty	
07	Roofing	076200	Sheet Metal Flashing and Trim	Gutter and gutter sleeve only. Steel downspout by others. Includes metal valley flashing.
07	Roofing	077200	Roof Accessories	
07	Roofing	079200	Joint Sealants	Sealants for this scope of work only.
BP-08 DOORS & HARDWARE				
08	Doors & Hardware	Division 1	General Requirements	All sections to be included in their entirety.
08	Doors & Hardware	081113	Hollow Metal Doors and Frames	
08	Doors & Hardware	081416	Flush Wood Doors	
08	Doors & Hardware	083113	Accss Doors and Frames	
08	Doors & Hardware	087100	Door Hardware	For this scope of work only.
BP-9 OVERHEAD COILING DOORS				
09	Overhead Coiling Doors	Division 1	General Requirements	All sections to be included in their entirety.
09	Overhead Coiling Doors	083323	Overhead Coiling Doors	
09	Overhead Coiling Doors	079200	Joint Sealants	Sealants for this scope of work only.
BP-10 ALUMINUM FRAMED ENTRANCES & STOREFRONTS				
10	Aluminum Storefronts	Division 1	General Requirements	All sections to be included in their entirety.
10	Aluminum Storefronts	084113	Aluminum-Framed Entrances and Storefronts	
10	Aluminum Storefronts	084523	Translucent Fiberglass Sandwich Panel Assemblies	
10	Aluminum Storefronts	087100	Door Hardware	Hardware for this scope of work, only.
10	Aluminum Storefronts	088000	Glazing	Includes all glass for storefronts & hollow metal doors & frames.
10	Aluminum Storefronts	079200	Joint Sealants	Sealants for this scope of work only.
BP-11 STUCCO				

11	Stucco	Division 1	General Requirements	
11	Stucco	092400	Portland Cement Plaster	
11	Stucco	079200	Joint Sealants	Sealants for this scope of work only.
BP-12 DRYWALL				
12	Drywall	Division 1	General Requirements	All sections to be included in their entirety.
12	Drywall	054000	Cold-Formed Metal Framing	
12	Drywall	066400	Plastic Paneling	
12	Drywall	072100	Thermal Insulation	Wall, Ceiling & Vapor barrier, only.
12	Drywall	092900	Gypsum Board	Provide & install cementitious backer units.
12	Drywall	095113	Acoustical Panel Ceilings	
12	Drywall	098413	Fixed Sound-Absorptive Panels	
12	Drywall	078413	Penetration Firestopping	As required for this scope of work, (Example: tops of walls).
12	Drywall	079200	Joint Sealants	Sealants for this scope of work only.
BP-13 WOOD ATHLETIC FLOORING				
13	Wood Athletic Flooring	Division 1	General Requirements	All sections to be included in their entirety.
13	Wood Athletic Flooring	096466	Wood Athletic Flooring	
13	Wood Athletic Flooring	079200	Joint Sealants	Sealants for this scope of work only.
BP-14 FLOOR COVERING / TILING				
14	Flooring Covering / Tiling	Division 1	General Requirements	All sections to be included in their entirety.
14	Flooring Covering / Tiling	093013	Tiling	Cementitious backer units by Drywall bid package.
14	Flooring Covering / Tiling	096513	Resilient Base and Accessories	
14	Flooring Covering / Tiling	096516	Resilient Sheet Flooring	Joint and crack filling, minor leveling, and sanding is included.
14	Flooring Covering / Tiling	096519	Resilient Tile Flooring	Joint and crack filling, minor leveling, and sanding is included.
14	Flooring Covering / Tiling	096816	Carpeting	Joint and crack filling, minor leveling, and sanding is included.
14	Flooring Covering / Tiling	079200	Joint Sealants	Sealants for this scope of work only.
BP-15 PAINTING				
15	Painting	Division 1	General Requirements	All sections to be included in their entirety.
15	Painting	071900	Water Repellents	
15	Painting	099113	Exterior Painting	
15	Painting	099123	Interior Painting	
15	Painting	079200	Joint Sealants	All interior sealants exclusive of concrete, aluminum storefront, and millwork. Includes caulking hollow metal frames prior to painting.
BP-16 SPECIALTIES				
16	Specialties	Division 1	General Requirements	All sections to be included in their entirety.
16	Specialties	101100	Visual Display Surfaces	
16	Specialties	101416	Signage	
16	Specialties	102113	Toilet Compartments	
16	Specialties	102600	Wall and Door Protection	
16	Specialties	102800	Toilet and Bath Accessories	
16	Specialties	104413	Fire Extinguisher Cabinets	
16	Specialties	104416	Fire Extinguishers	
16	Specialties	115213	Projection Screens	
16	Specialties	116143	Platform Curtains	
16	Specialties	079200	Joint Sealants	Sealants for this scope of work only.
BP-17 GYMNASIUM EQUIPMENT				
17	Gym Equipment	Division 1	General Requirements	All sections to be included in their entirety.
17	Gym Equipment	116600	Wall and Floor Padding	
17	Gym Equipment	116623	Gymnasium Equipment	
BP-18 HORIZONTAL LOUVER BLINDS				
18	Louver Blinds	Division 1	General Requirements	All sections to be included in their entirety.
18	Louver Blinds	122113	Horizontal Louver Blinds	
BP-19 TELESCOPING STANDS				
19	Telescoping Stands	Division 1	General Requirements	All sections to be included in their entirety.
19	Telescoping Stands	126600	Telescoping Stands	
BP-20 FIRE SPRINKLER SYSTEM				
20	Fire Sprinkler System	Division 1	General Requirements	All sections to be included in their entirety.
20	Fire Sprinkler System	210000	Fire Sprinkler Systems	Demolition as required for this scope of work.
20	Fire Sprinkler System		Fire Penetration Appendix A	As required for this scope of work.
20	Fire Sprinkler System	083113	Access Doors and Frames	Supply and install as needed for access to items installed under this scope of work.
BP-21 PLUMBING				
21	Plumbing	Division 1	General Requirements	All sections to be included in their entirety.
21	Plumbing	220000	Plumbing General Requirements	Demolition as required for this scope of work.
21	Plumbing	220100	Plumbing	
21	Plumbing	113013	Residential Appliances	Include all necessary connections relative to this scope of work.
21	Plumbing	114000	Food Service Equipment	Include all necessary connections relative to this scope of work.
21	Plumbing	083113	Access Doors and Frames	Supply and install as needed for access to items installed under this scope of work.
BP-22 HVAC				
22	HVAC	Division 1	General Requirements	All sections to be included in their entirety.
22	HVAC	230000	HVAC General Requirements	**ADD-01:** Demolition as required for this scope of work. Roof patching, flashing & penetration by Roof Contractor.
22	HVAC	230100	Heating, Ventilating and Air Conditioning	
22	HVAC	230150	Mechanical Start-Up	
22	HVAC	230800	HVAC Commissioning Requirements	
22	HVAC	230900	Direct Digital Control System	
22	HVAC	113013	Residential Appliances	Include all necessary connections relative to this scope of work.
22	HVAC	114000	Food Service Equipment	Include all necessary connections relative to this scope of work.
22	HVAC	078413	Penetration Firestopping	As required for this scope of work.
22	HVAC	078413	Firestopping Appendix A	As required for this scope of work.
22	HVAC	079200	Joint Sealants	As required for this scope of work.
22	HVAC	083113	Access Doors and Frames	Supply and install as needed for access to items installed under this scope of work.
BP-23 ELECTRICAL				
23	Electrical	Division 1	General Requirements	All sections to be included in their entirety.
23	Electrical	260500	Electrical General Provisions	Demolition as required for this scope of work.
23	Electrical	260501	Field Test and Operational Check	
23	Electrical	260502	Coordination Study	
23	Electrical	260519	Conductorsand Cables	
23	Electrical	260526	Grounding	
23	Electrical	260529	Supporting Devices	

23	Electrical	260533	Raceways and Boxes	
23	Electrical	260536	Cable Trays	
23	Electrical	260543	Under Slab and Underground Electrical Work	
23	Electrical	260800	Lighting Systems Commissioning	
23	Electrical	260923	Lighting Control Devices	
23	Electrical	262413	Switchboards	Reference attached Switchgear submittal.
23	Electrical	262416	Panelboards	
23	Electrical	262726	Wiring Devices	
23	Electrical	262813	Fuses	
23	Electrical	262815	Disconnect Switches	
23	Electrical	265100	Interior Lighting	
23	Electrical	266000	Electrical Demolition and Repair	
23	Electrical	271101	Telecom Raceway Systems	
23	Electrical	271500	Telecommunications Cabling	
23	Electrical	275116	Integrated Communications and Clock Network	
23	Electrical	275118	Sound Systems	
23	Electrical	275200	Class Room Audio System	
23	Electrical	281000	Access Control System	
23	Electrical	282310	Video Management System	**ADD-01:** Delete this Spec Section. The Video Surveillance system will be furnished and installed by the Owner and as noted in this addendum.
23	Electrical	282329	Video Surveillance Remote Devices and Sensors	**ADD-01:** Delete this Spec Section. The Video Surveillance system will be furnished and installed by the Owner and as noted in this addendum.
23	Electrical	283200	Voice Evacuation Fire Alarm System	
23	Electrical	113013	Residential Appliances	Include all necessary connections relative to this scope of work.
23	Electrical	114000	Food Service Equipment	Include all necessary connections relative to this scope of work.
23	Electrical	078413	Penetration Firestopping	As required for this scope of work.
23	Electrical	078413	Firestopping Appendix A	As required for this scope of work.
23	Electrical	079200	Joint Sealants	As required for this scope of work.
23	Electrical	083113	Access Doors and Frames	Supply and install as needed for access to items installed under this scope of work.
BP-24 SITEWORK				
24	Sitework	Division 1	General Requirements	All sections to be included in their entirety.
24	Sitework	SD6.0 & SD6.5	Erosion and Sediment Control	Sitework Contractor responsible to provide all erosion & sediment control components including setup, maintenance and removal.
24	Sitework	310120	Traffic Control	
24	Sitework	311000	Site Clearing	
24	Sitework	312300	Earthwork	
24	Sitework	315000	Excavation Support and Protection	
24	Sitework	321216	Asphalt Paving	
24	Sitework	321723	Pavement Markings	
24	Sitework	331100	Site Water Lines	
24	Sitework	323150	Site Signage	
24	Sitework	333100	Site Sanitary Sewerage System	Include Sand & Grease traps as shown on Site Utility drawings.
24	Sitework	334100	Storm Utility Drainage Piping	Include all components on Sheet SD5.5.
24	Sitework	334600	Subdrainage	
24	Sitework	Appendix A	Geotechnical Evaluation Report	
BP-25 PLAYGROUND EQUIPMENT & STRUCTURES				
25	Playground Equipment	Division 1	General Requirements	All sections to be included in their entirety.
25	Playground Equipment	321800	Playground Equipment and Structures	
25	Playground Equipment	321816	Playground Surface Systems	
25	Playground Equipment	321822	Synthetic Playground Turf	
BP-26 SITE FURNISHINGS				
26	Site Furnishings	Division 1	General Requirements	All sections to be included in their entirety.
26	Site Furnishings	323300	Site Furnishings	Provide and install all items in this Spec Section. Includes concrete, bases & anchoring for all equipment.
BP-27 CHAIN-LINK & DECORATIVE FENCES				
27	Fencing	Division 1	General Requirements	All sections to be included in their entirety.
27	Fencing	323113	Chain Link Fences and Gates	
27	Fencing	323119	Decorative Metal Fences and Gates	
BP-28 LANDSCAPE & IRRIGATION				
28	Landscape	Division 1	General Requirements	All sections to be included in their entirety.
28	Landscape	328400	Landscape Irrigation	
28	Landscape	328500	Landscape Grading	Site will be cut to sub-grade elevation, (+/-) one-tenth by Others.
28	Landscape	329113	Soil Preparation	
28	Landscape	329200	Turf and Grasses	
28	Landscape	329290	Tree Protection and Trimming	
28	Landscape	329300	Plants	

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

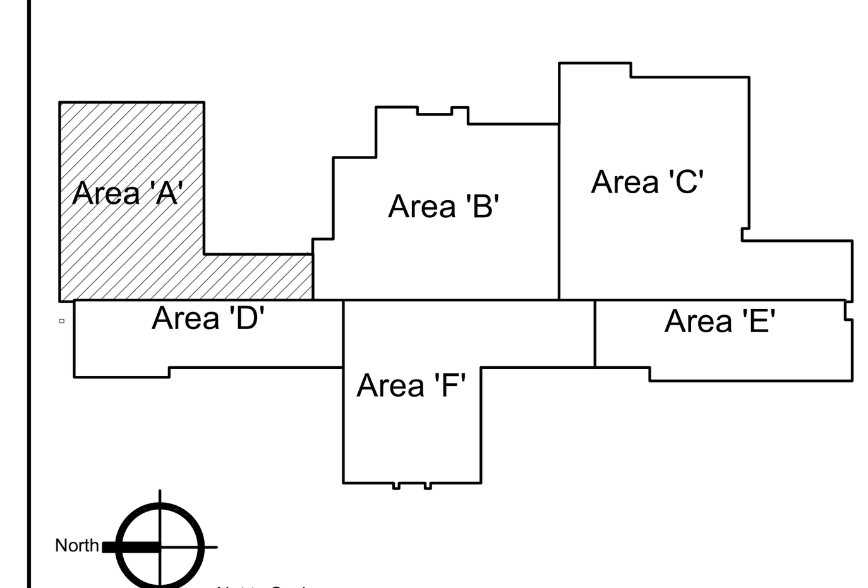
KEYED NOTES:

(#) 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"

Key Plan



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MUSGROVE ENGINEERING, P.A.
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208.384.0585
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OVER 40 YEARS OF EXCELLENCE
Project No. 22-104

PROFESSIONAL ENGINEER REGISTERED 10389 2/24/2023 STATE OF IDAHO KURT LECHTENBERG

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-6.1

ADDENDUM-01 dated 5.11.23

ADDENDUM NO.1

May 11, 2023

PROJECT **Jefferson Elementary School Addition and Remodel**

Jerome, Idaho

The following addenda apply to the Project Manual and / or Drawings for this project and shall be a part of the Contract Documents. Two (2) pages plus attachments.

PROJECT MANUAL

SECTION 075423 – THERMOPLASTIC POLYOLEFIN (TPO) ROOFING:

Add new Paragraph 2.1.A.1.e to read as follows:

"e. Versico"

MECHANICAL SPECIFICATIONS, CLARIFICATIONS, AND APPROVALS:

See Musgrove Engineering Mechanical Addendum #1 dated 5/11/23 attached to this Addendum.

ELECTRICAL SPECIFICATIONS AND APPROVALS:

See Musgrove Engineering Electrical Addendum #1 dated 5/11/23 attached to this Addendum.

DRAWINGS

SHEETS A-2.2, A-2.3, A-2.4, A-2.5, and A-2.6:

See revised Sheets A-2.2 – A-2.6 containing selective demolition clarifications related to existing flooring removal dated 2/11/23 attached to this Addendum.

2400 E. Riverwalk Drive, Boise, Idaho 83706 I Phone 208.336.3443 I www.lkvarchitects.com

MECHANICAL DRAWINGS:

See Musgrove Engineering Mechanical Addendum #1 dated 5/11/23 attached to this Addendum.

ELECTRICAL DRAWINGS:

See Musgrove Engineering Electrical Addendum #1 dated 5/11/23 attached to this Addendum.

END OF ADDENDUM NO. 1

ATTACHMENTS

Revised Sheets A-2.2, A-2.3, A-2.4, A-2.5, and A-2.6 dated 5/11/23.

Musgrove Engineering Mechanical Addendum #1 dated 5/11/23, (7) pages, with (36) revised and attached drawing sheets.

Musgrove Engineering Electrical Addendum #1 dated 5/11/23, (3) pages, with (6) revised and attached drawing sheets.

ADDENDUM-01 dated 5.11.23

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ADDENDUM #1

(MECHANICAL)

Date:	05-11-23	To:	LKV Architect
Job Number:	22-104		2400 E. Riverwalk Dr.
Prepared By:	Jason McDonald		Boise, Id. 836706
Sheet:	1 of 7	Attention:	Wayne Thowless

Project: **Jefferson Elementary School**

NOTICE TO BIDDERS: THIS ADDENDUM IS HEREBY MADE A PART OF THE PROJECT REQUIREMENTS AND CONTRACT DOCUMENTS FOR THE PROJECT REFERENCED ABOVE.

1. The following manufacturers shall be approved for bidding only. Final approval shall be based on requirements of plans and specifications.

Prior approvals:

Description and Manufacturer

HVAC Equipment:
Kitchen Hoods and Equipment – Greenheck
Destratification Fan – Zoo Fans

Plumbing Equipment:
Water Softener – North Star

Clarifications:
The Kitchen Hood Control System is provided and installed by the mechanical contractor and wired by the electrical contractor. This includes the makeup air unit (MAU-1.1), exhaust fans (EF-1.1 & EF-1.2), and the hood (H-1.1 & H-1.2).

Specifications:
Section 230100-Heating, Ventilation, and Air Conditioning. 2.4 Air Distribution, A Ductwork; 2. Low pressure exposed ductwork shall be paint grip. See specification for further information.

Response to RFI Questions:
Fire Sprinkler Design Answers

5. Yes, Provide MIC treated piping.
6. Stainless Steel is acceptable within 5' of building for underground piping.

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7. No preferred Model, Equipment shall meet FM-1035 and UL -508A standards.

Fire Criteria Drawings:

Sheet M-0.2 Fire Criteria Plan

1. FDC was removed from the building and note M was added to indicate remote FDC is required. See the Sheet for further information.

HVAC Drawings:

Sheet M-1.1 Mechanical Demolition Plan – Area A

1. Added keynote 3, changed plan keynote for sensor. See the Sheet for further information.

Sheet M-1.3 Mechanical Demolition Plan – Area C

1. Corrected plan keynote. See the Sheet for further information.

Sheet M-1.4 Mechanical Demolition Plan – Area E

1. Corrected plan keynotes. See the Sheet for further information.

Sheet M-2.1 Mechanical New Work Plan – Area A

1. Changed grille callout in room 120.
2. Added averaging sensors.
3. Added bid alt#2 note.
4. Removed co2 sensor in hallway unit RTU-1.13.
   See the Sheet for further information.

Sheet M-2.2 Mechanical New Work Plan – Area B

1. Modified Note in center of sheet.
2. Added keynote 21.
3. Added keynote 24.
4. Change keynote 4 to remove type 1 grease references.
5. Added callout (EH-1.10) for ceiling heater.
6. Added wall sensors for cafeteria,
7. Added DDC sensor in kitchen.
8. Removed remote Tstat for heaters EH-1.4 and EH-1.5. Tstats for heaters shall be integral.
   See the Sheet for further information.

Sheet M-2.3 Mechanical New Work Plan – Area C

1. Added keynote 13 for smoke duct detector.
2. Added keynote 12 for Bid alternate note.
3. Added keynote 11 for destratification fan.
4. Added pressure sensor.

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5. Added wall grilles R-21.
6. Added Sensor for destratification fan.
7. Corrected RTU wall callout to RTU-1.7a and RTU-1.7b
8. Removed Co2 Sensor corridor.
9. Removed remote thermostat for EH-1.5 & EH-1.1

See the Sheet for further information.

Sheet M-2.4 Mechanical New Work Plan – Area D and E

1. Removed CO2 sensor in corridor 131
2. Added Bid Alt#2 for sensor in corridor 131.
3. Removed fire damper on exhaust fan EF-1.5 in the mechanical room.
4. Added Tstat for DFC-1.2 in the prep room.
5. Added DDC sensor in the prep room.

See the Sheet for further information.

Sheet M-3.1 Mechanical Demolition Roof Plan – Area A

1. Modified keynote 2.
2. Modified keynote 3.

See the Sheet for further information.

Sheet M-3.2 Mechanical Demolition Roof Plan – Area B

1. Modified keynote 2.
2. Modified keynote 3.
3. Added keynote 7.

See the Sheet for further information.

Sheet M-3.3 Mechanical Demolition Roof Plan – Area C

1. Modified keynote 1.
2. Modified keynote 2.
3. Modified keynote 3.

See the Sheet for further information.

Sheet M-3.4 Mechanical Demolition Roof Plan – Areas D & E

1. Modified keynote 3.
2. Modified keynote 4.

See the Sheet for further information.

Sheet M-3.5 Mechanical Demolition Roof Plan – Area F

1. Modified keynote 2.
2. Modified keynote 3.

See the Sheet for further information.

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Sheet M-4.2 Mechanical New Work Roof Plan – Area B

1. Modified keynote 9 and relocated keynote on plan.
2. Added exhaust curb and cap for exhaust duct, keynote 16.
3. Changed EF-1.1 and 1.2 keynotes to 5.
4. Added keynote 17.

See the Sheet for further information.

Sheet M-4.4 Mechanical New Work Roof Plan – Area C

1. Modified keynote 5.
2. Added exhaust curb and cap for exhaust duct, keynote 5.
3. Correction to callout DHP-1.1, has been changed to DHP-1.2.

See the Sheet for further information.

Sheet M-4.5 Mechanical New Work Roof Plan – Area F

1. Changed keynote 3 bubble on RTU-1.11 to 5, added keynote 5.
2. Added keynote 6, and gas piping with valves.

See the Sheet for further information.

Sheet M-5.2 Mechanical Details

1. Added Piping Through Roof Detail.
2. Added Destratification fan Detail.

See the Sheet for further information.

Sheet M-6.0 Mechanical Schedules

1. Sheet was incorrectly numbered as M-7.0, has been corrected to M-6.0.
2. Packaged Rooftop Schedule Bid Alt#2; RTU-1.15 area served was incorrectly listed as Media, has been corrected to Library.

See the Sheet for further information.

Sheet M-6.1 Mechanical Schedules

1. Electric Heater Schedule; Added heater EH-1.10.
2. Electric Heater Schedule; changed area served for EH-1.1 from Vestibule to Ramp 190.
3. Electric Heater Schedule; changed area served for EH-1.2 from Hall Entry to Vestibule 182.
4. Electric Heater Schedule; modified remark notes and remark numbers.
5. Gas Fired Make Up Air Unit Schedule; Modified remark note 1.
6. Gas Fired Make Up Air Unit Schedule; Removed remark number 6,
7. Kitchen Exhaust Fan Schedule; Modified remark numbers and notes.
8. Modified Hood over cooking equipment note.

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See the Sheet for further information.

Sheet M-6.2 Mechanical Schedules

1. Return and Exhaust Grille Schedule; Added Grille R-21.

See the Sheet for further information.

Sheet M-7.1 Control Sheet

1. Ductless Split System Sequence and Schematic, Corrected Ductless Callouts.

See the Sheet for further information.

Sheet M-7.2 Control Sheet

1. Package Rooftop w/CV and VV Exhaust Carbon Dioxide Control Sequence and Schematic, Corrected RTU Callouts.

See the Sheet for further information.

Sheet M-7.3 Control Sheet

1. Dishwasher Hood Exhaust System Control Schematic, Corrected fan Callouts and voltage.
2. Electric Heater System Sequence and Schematic, Modified to remove DDC Sensor, Shall be integral.

See the Sheet for further information.

Plumbing Drawings:

Sheet P-1.2 Plumbing Demolition Plan – Area B

1. Added keynote 5 for removing gym drains.

See the Sheet for further information.

Sheet P-1.3 Plumbing Demolition Plan – Area C

1. Deleted keynote 1, changed plan keynote to 3.

See the Sheet for further information.

Sheet P-1.4 Plumbing Demolition Plan – Areas D & E

1. Modified keynote 1. Changed the word waste to water.
2. Added keynote 3, Remove utility sink.

See the Sheet for further information.

Sheet P-2.1 Plumbing New Work Plan – Area A

1. Added typical keynote 2 for S-2 sinks.

See the Sheet for further information.

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Sheet P-2.2 Plumbing New Work Plan – Area B

1. Added EYE-1 at service sink in kitchen and utility room off Boys 141
2. Added EYE-2 at each S-3 hand washing sink.
3. Modified Keynote 3 for existing roof drain connection.

See the Sheet for further information.

Sheet P-2.3 Plumbing New Work Plan – Area C

1. Added typical keynote 5 for S-2 sinks.
2. Changed WC-3 to WC-2 in Boys 141

See the Sheet for further information.

Sheet P-2.4 Plumbing New Work Plan – Areas D & E

1. Added typical keynote 6 for S-2 sinks.
2. Changed callout for WC-3 to WC-2.
3. Added new to existing symbol in prep room 179.

See the Sheet for further information.

Sheet P-2.5 Plumbing New Work Plan – Area F

1. Added typical keynote 1 for S-2 sinks.

See the Sheet for further information.

Sheet P-3.0 Plumbing Riser Diagrams

1. Riser Diagram 3 Restroom Water Riser Diagram. Changed one of the WC-2 callout to WC-1.
2. Removed Section of Riser Diagram.

See the Sheet for further information.

Sheet P-4.0 Plumbing Details

1. Added Detail 7 Make up air Evap Cooler Piping Detail
2. Added Detail 8 Dishwasher Connection Detail.

See the Sheet for further information.

Sheet P-4.1 Plumbing Details

1. Added Detail 6 Roof Mounted Piping Detail.
2. Added Detail 7 Service Sink Detail.
3. Added Detail 8 Trap Primer Connection Detail.

See the Sheet for further information.

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Sheet P-5.0 Plumbing Schedules

1. Plumbing Fixture Schedule; Added DW-1, EYE-2, FCO and SA-1 to the schedule.

See the Sheet for further information.

Sheet P-5.1 Plumbing Schedules

1. Kitchen Plumbing Fixture Schedule; Revised remark notes and remark numbers.

See the Sheet for further information.

End of Addendum #1

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ADDENDUM #1

(ELECTRICAL)

Date:	05-11-23	To:	LKV Architect
Job Number:	22-104		2400 E. Riverwalk Dr.
Prepared By:	Angelo Neglia/Kurt Lechtenberg		Boise, Id. 836706
Sheet:	1 of 3	Attention:	Wayne Thowless

Project: **Jefferson Elementary School Addition and Remodel**

NOTICE TO BIDDERS:	THIS ADDENDUM IS HEREBY MADE A PART OF THE PROJECT REQUIREMENTS AND CONTRACT DOCUMENTS FOR THE PROJECT REFERENCED ABOVE.

Prior Approvals:

1. Sheet E10.1 – LIGHTING FIXTURE SCHEDULE:
    a. Type FL2: Lite Control Lighting, Nelo+ 75 series.
    b. Type TL1: Bruck Lighting, Geo Track Series two circuit, two neutral, 8' track system. Track Head; Bruck Lighting, LX Series LED dimmable track head.

Electrical Specification Modifications:

1. Specification Sections 282310 & 282329 are eliminated. The Video Surveillance system will be furnished and installed by the owner.

2. Specification Section 281000:
    a. 281000-2.1-A: The access control system and all components shall be the Dormakaba Wi-Q system.

Electrical Plan Modifications:

3. Sheet E5.1 – MECHANICAL POWER PLAN – AREA 'A'
    a. Mechanical T-stat and sensors added (RTU-1.1), New Office 132, Classroom 134, Classroom 136.

4. Sheet E5.2 – MECHANICAL POWER PLAN – AREA 'B'
    a. EH-1.7 updated to EH-1.10
    b. Mechanical sensor added for hoods, New Kitchen 152.
    c. Mechanical sensors added, New Cafeteria 163.
    d. Remove wall t-stat for heaters EH-1.4 Vest. 164. T-stat integral
    e. Updated Keyed Notes to DFC-1.1, I.T./Server 150

5. Sheet E5.3 – MECHANICAL POWER PLAN – AREA 'C'
    a. Remove wall t-stat for heater EH-1.1 and EH1.5, Ramp 190. T-stat integral.
    b. Mechanical sensor added, New Gymnasium 184

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c. Mechanical sensor removed (RTU-1.20), Corridor 195

6. Sheet E5.4 – MECHANICAL POWER PLAN – AREA 'D' AND 'E'.
   a. Mechanical sensor removed (RTU 1.13), Corridor 131.
   b. Mechanical T-stat and sensor added (DFC-1.2), Prep Room 179.
   c. Updated Keyed Note to DFC-1.3, Added Keyed Note #4.

7. Sheet E6.2 – POWER PLAN – AREA 'B'
   a. I.T./Server 150; Provide ground bar at data rack location and provide #6 grounding conductor from the ground bar to building grounding system.

8. Sheet E6.4 – POWER PLAN – AREA 'E'
   a. Storage 176; Provide ground bar at data rack location and provide #6 grounding conductor from the ground bar to building grounding system.

9. Sheet E7.1 – SPECIAL SYSTEMS PLAN – AREA 'A'
   a. Revised Keyed Note #8 for interior security cameras. See new interior Keyed Note below.
   b. Added exterior camera, Added Keyed Note #12. See new exterior Keyed Note below.
10. Sheet E7.2 – SPECIAL SYSTEMS PLAN – AREA 'B'
   a. Updated Keyed Note #10 for interior security cameras. See new interior Keyed Notes below.

11. Sheet E7.3 – SPECIAL SYSTEMS PLAN – AREA 'C'
   a. Updated Keyed Note #21 for interior security cameras. See new interior Keyed Note below.
   b. Added exterior cameras, Added Keyed Note #28. See new exterior Keyed Note below.

12. Sheet E7.4 – SPECIAL SYSTEMS PLAN – AREA 'E'
   a. Updated Keyed Note #8 for interior security cameras. See new interior Keyed Note below.

New interior security camera Keyed Note:
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.

New exterior security camera Keyed Note:
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.

13. Sheet E8.4 – ELECTRICAL ROOF PLAN – AREA 'D' AND 'E'.

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a. Callout for DHP-1.1 updated to DHP-1.2

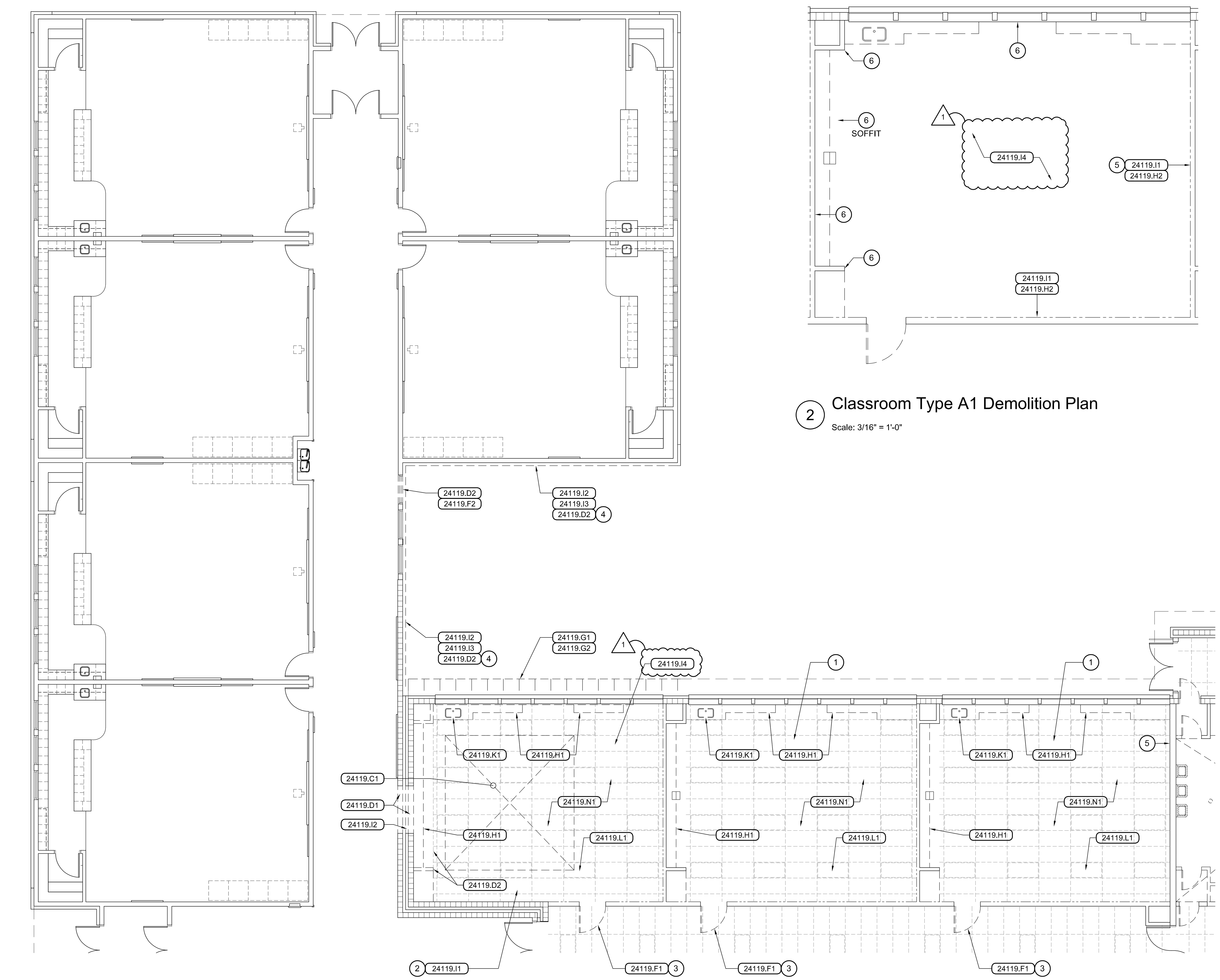
14. Sheet E10.0 – ELECTRICAL SCHEDULES
    a. Panel H: Updated description from "EH-1.7…" to "EH-1.10…", circuit (48,50).

15. Sheet E10.1 – ELECTRICAL SCHEDULES
    a. Panel F: Updated description from "DFC-1.2…" to "DHP-1.2…", circuit (6,8).

Attachments:

Sheet E5.1 – MECHANICAL POWER PLAN – AREA 'A'
Sheet E5.2 – MECHANICAL POWER PLAN – AREA 'B'
Sheet E5.3 – MECHANICAL POWER PLAN – AREA 'C'
Sheet E5.4 – MECHANICAL POWER PLAN – AREA 'D' AND 'E'.
Sheet E7.1 – SPECIAL SYSTEMS PLAN – AREA 'A'
Sheet E7.3 – SPECIAL SYSTEMS PLAN – AREA 'C'.

End of Addendum #1



1 Demolition Plan - Area 'A'

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

2 Classroom Type A1 Demolition Plan

Scale: 3/16" = 1'-0"

General Notes

1. FIELD VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING WORK.
2. CAREFULLY REMOVE ALL DOOR HARDWARE FROM DOORS TO BE REMOVED AND RETAIN AND TURN OVER TO OWNER IN INTACT SETS.

Reference Notes

1. SEE CLASSROOM TYPE A1 DEMOLITION PLAN, THIS SHEET, FOR INTERIOR FINISH AND SPECIALTY ITEM DEMOLITION.
2. REMOVE ALL INTERIOR FINISHES, INCLUDING PLASTER / GYPSUM BOARD EXCEPT AT NEW FURRED WALL LOCATIONS, AND ALL SPECIALTY ITEMS.
3. BID ALTERNATE NO. 1 WORK ITEM.
4. 2X WALL FURRING.
5. NO GYPSUM BOARD REMOVAL AT FIRE WALL.
6. RETAIN EXISTING WALL FINISHES . PATCH/ REPAIR AS REQUIRED UNLESS TO BE CONCEALED BY NEW CABINETRY.

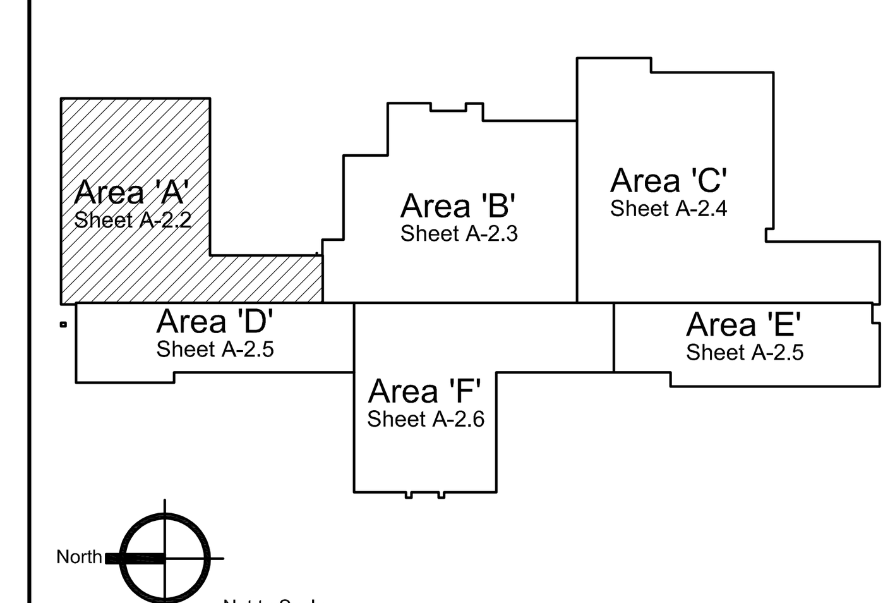
Keyed Notes

DIVISION 2 - EXISTING CONDITIONS

24119.C1	EXISTING SLAB(S) TO BE REMOVED
24119.D1	EXISTING MASONRY / CONCRETE WALL(S) TO BE REMOVED
24119.D2	EXISTING WOOD STUD WALL(S) / FRAMING TO BE REMOVED
24119.F1	EXISTING DOOR(S) TO BE REMOVED
24119.F2	EXISTING WINDOW(S) TO BE REMOVED
24119.G1	EXISTING ROOF STRUCTURE TO BE REMOVED
24119.G2	EXISTING ROOFING TO BE REMOVED
24119.H1	EXISTING MILLWORK / CABINETRY TO BE REMOVED
24119.I1	EXISTING FINISH(ES) TO BE REMOVED
24119.I2	EXISTING MASONRY VENEER TO BE REMOVED
24119.I3	EXISTING STUCCO SYSTEM TO BE REMOVED
24119.I4	EXISTING CARPET / RESILIENT FLOORING TO BE REMOVED
24119.K1	EXISTING PLUMBING WORK TO BE REMOVED
24119.L1	EXISTING ELECTRICAL WORK TO BE REMOVED
24119.N1	EXISTING SUSPENDED ACOUSTIC CEILING TO BE REMOVED

ADDENDUM-01 dated 5.11.23

Key Plan



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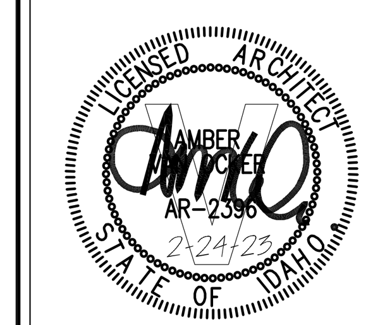


Jefferson Elementary School Addition and Remodel

600 N. Fillmore Street, Jerome, Idaho

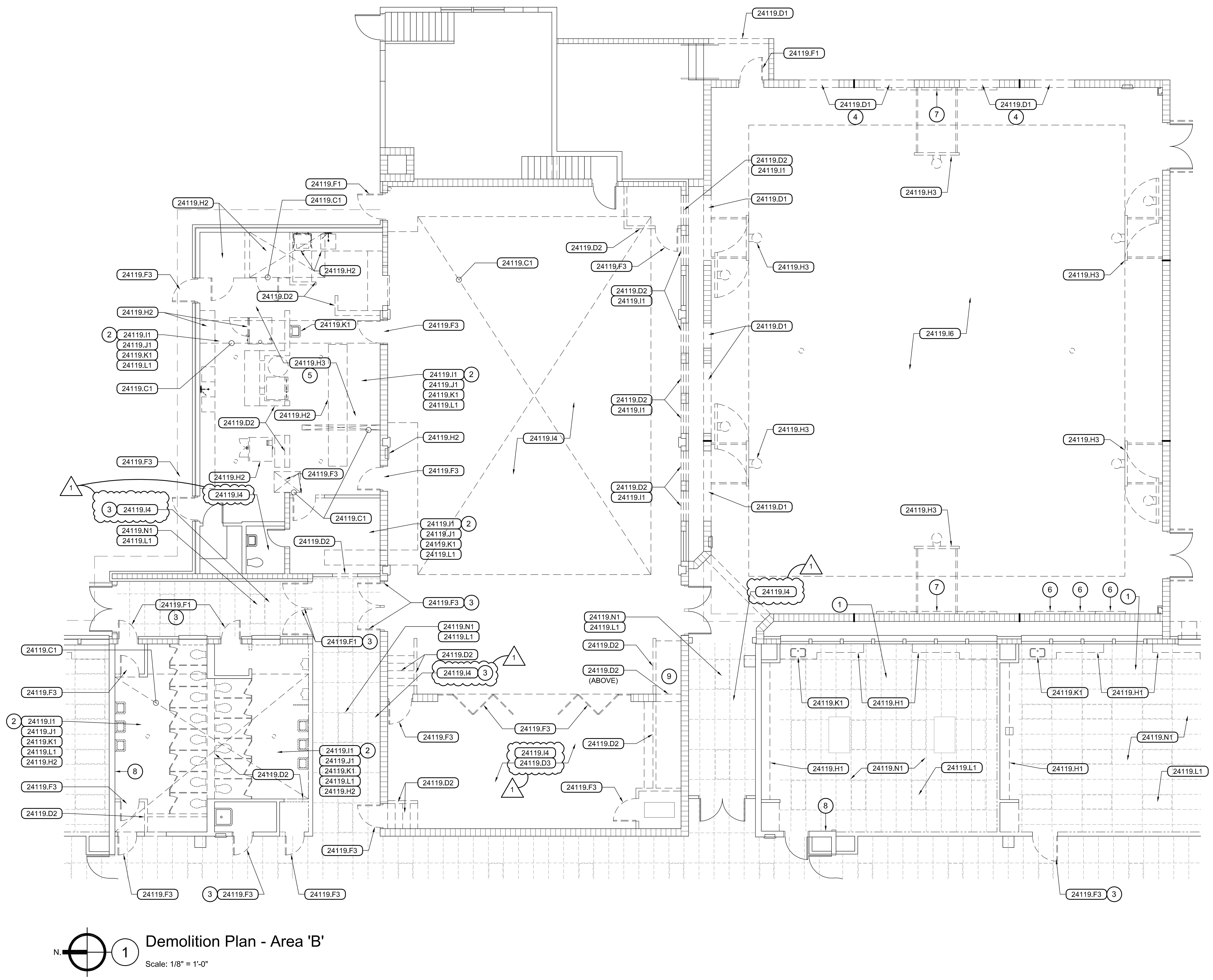
DATE: February 24, 2023
LKV PROJECT #: -
REVISIONS:
1 5/11/23

DRAWN BY: MS
CHECKED BY: WT

Agency Review

DRAWING NO.

A-2.2



Demolition Plan - Area 'B'

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

General Notes

1. FIELD VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING WORK.
2. CAREFULLY REMOVE ALL DOOR HARDWARE FROM DOORS TO BE REMOVED AND RETAIN AND TURN OVER TO OWNER IN INTACT SETS.

Reference Notes

(1) SEE CLASSROOM TYPE A1 DEMOLITION PLAN, SHEET A-2.2, FOR INTERIOR FINISH AND SPECIALTY ITEM DEMOLITION.

(2) REMOVE ALL INTERIOR FINISHES, INCLUDING PLASTER / GYPSUM BOARD EXCEPT AT NEW FURRED WALL LOCATIONS, AND ALL SPECIALTY ITEMS.

(3) BID ALTERNATE NO. 1 WORK ITEM.

(4) BID ALTERNATE NO. 3 WORK ITEM.

(5) ALL KITCHEN EQUIPMENT, APPLIANCES, AND STAINLESS STEEL (NOT SHOWN).

(6) RELOCATED CLIMBING WALL PANELS BY OWNER.

(7) WALL PADS REMOVED BY CONTRACTOR, RETAINED BY OWNER.

(8) NO GYPSUM BOARD REMOVAL AT FIRE WALL.

(9) REMOVE WOOD FRAMED PORTION OF RAMP BELOW FINISH FLOOR ELEVATION AND ADJOINING WOOD STUD WALL AND DOOR AND FRAME UNDER STAGE.

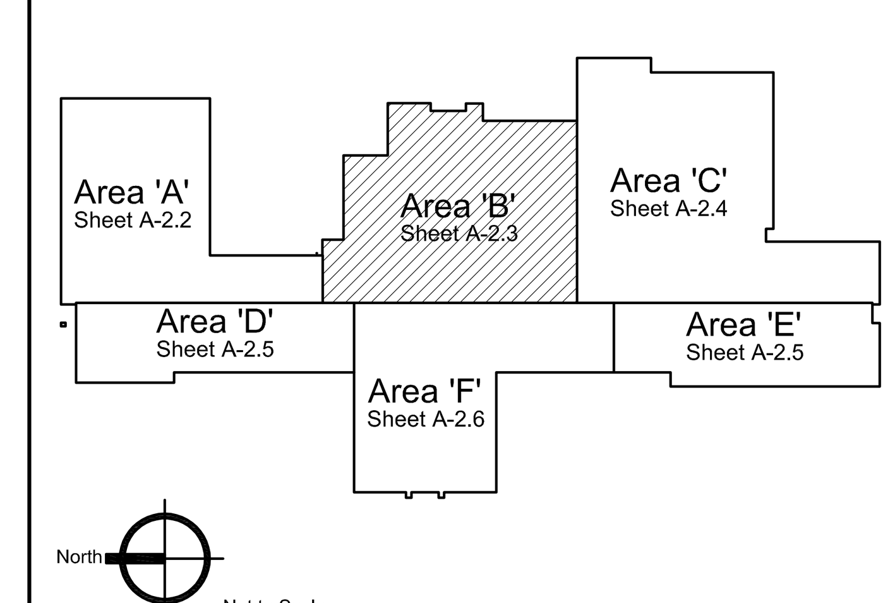
Keyed Notes

DIVISION 2 - EXISTING CONDITIONS

24119.C1	EXISTING SLAB(S) TO BE REMOVED
24119.D1	EXISTING MASONRY / CONCRETE WALL(S) TO BE REMOVED
24119.D2	EXISTING WOOD STUD WALL(S) / FRAMING TO BE REMOVED
24119.D3	EXISTING WOOD FRAMED FLOOR STRUCTURE TO BE REMOVED
24119.F1	EXISTING DOOR(S) TO BE REMOVED
24119.F3	EXISTING DOOR AND FRAME / JAMB / CASING TO BE REMOVED
24119.H1	EXISTING MILLWORK / CABINETRY TO BE REMOVED
24119.H2	EXISTING SPECIALTY ITEMS(S) TO BE REMOVED
24119.H3	EXISTING FURNISHING / EQUIPMENT ITEM TO BE REMOVED
24119.I1	EXISTING FINISH(ES) TO BE REMOVED
24119.I2	EXISTING MASONRY VENEER TO BE REMOVED
24119.I4	EXISTING CARPET / RESILIENT FLOORING TO BE REMOVED
24119.I6	EXISTING HARDWOOD FLOORING SYSTEM TO BE REMOVED
24119.J1	EXISTING MECHANICAL WORK TO BE REMOVED
24119.K1	EXISTING PLUMBING WORK TO BE REMOVED
24119.L1	EXISTING ELECTRICAL WORK TO BE REMOVED
24119.N1	EXISTING SUSPENDED ACOUSTIC CEILING TO BE REMOVED

ADDENDUM-01 dated 5.11.23

Key Plan



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Jefferson Elementary School Addition and Remodel

600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
LKV PROJECT #: -
REVISIONS:
1 5/11/23

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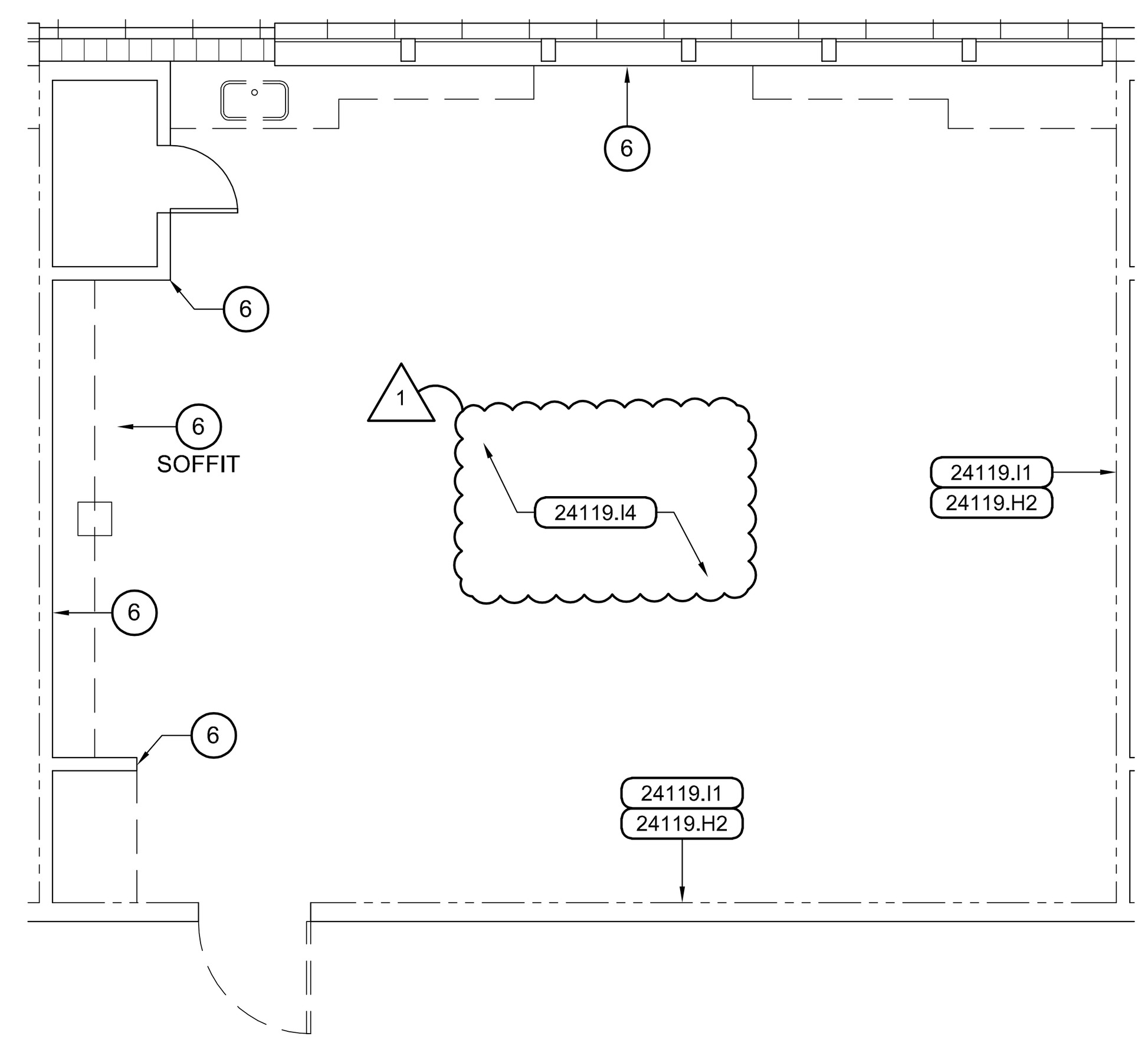
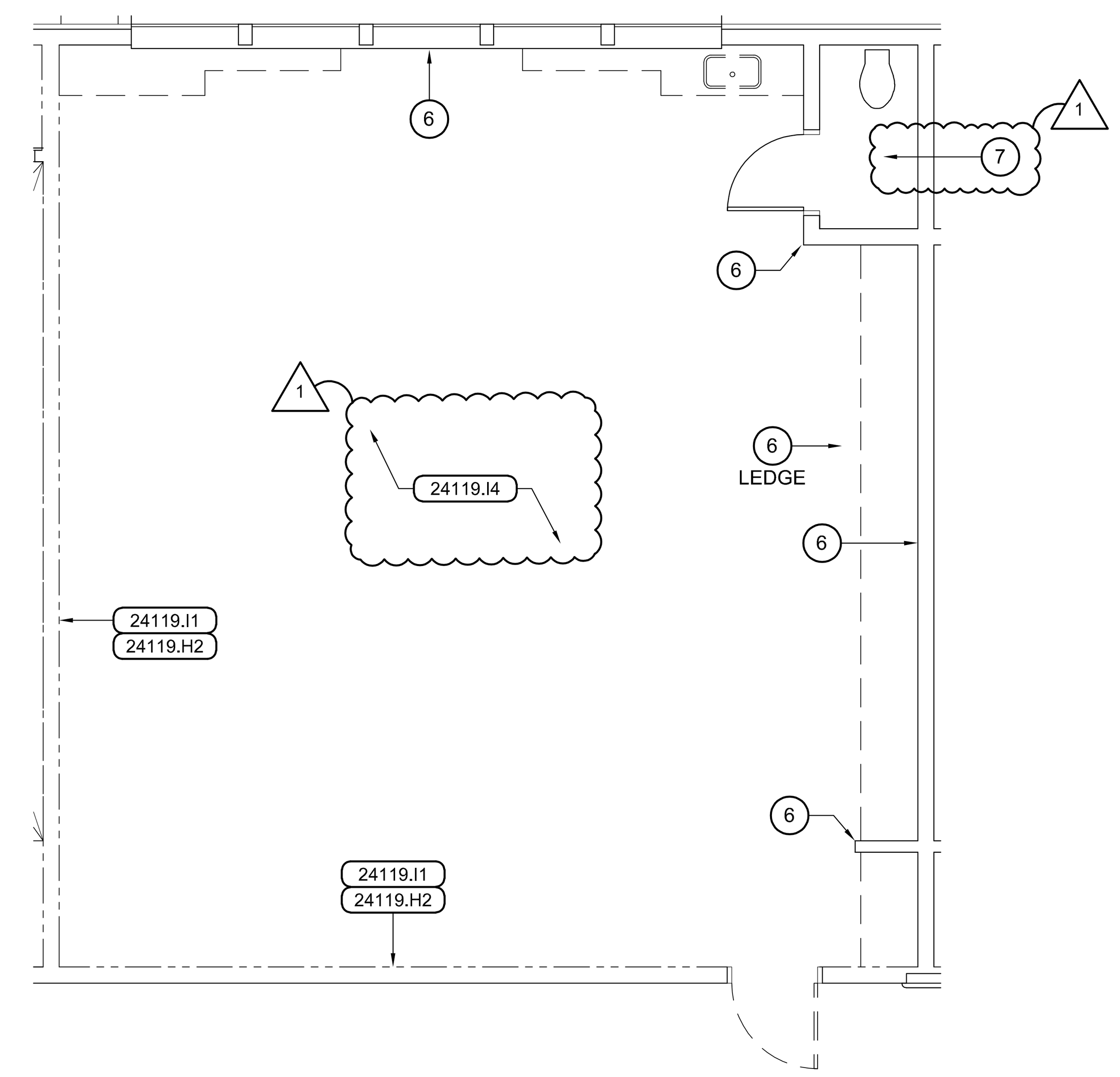
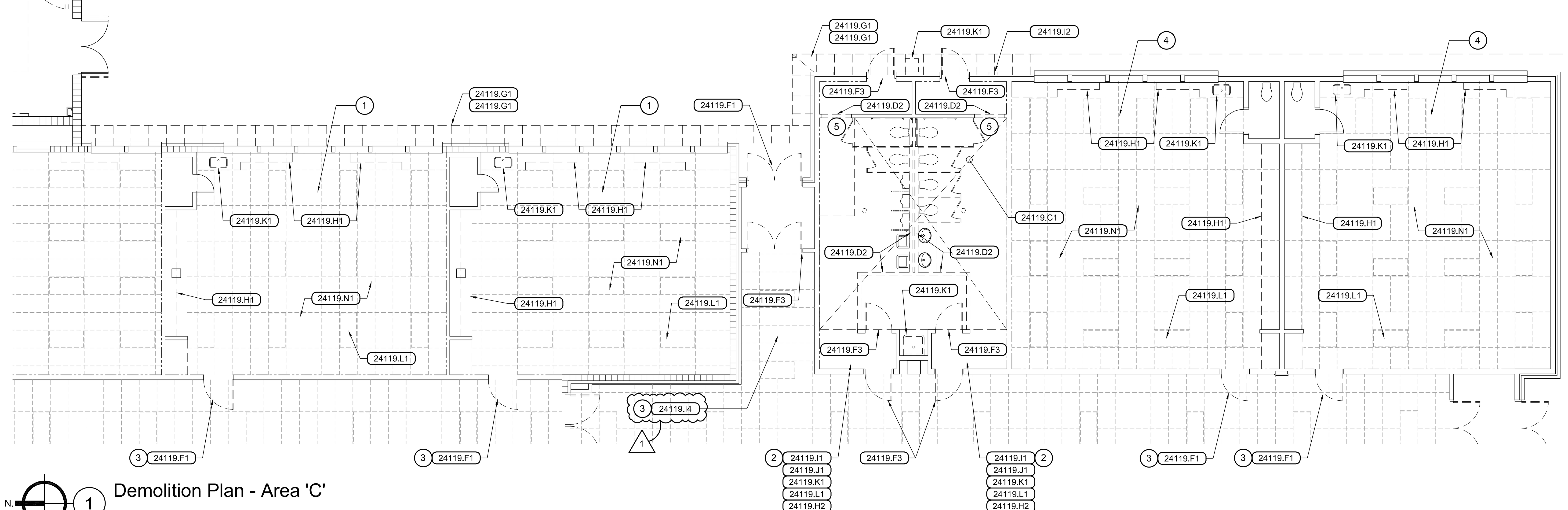
A-2.3



2 Classroom Type A2 Demolition Plan
Scale: 3/16" = 1'-0"



3 Classroom Type B Demolition Plan
Scale: 3/16" = 1'-0"



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

General Notes

1. FIELD VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING WORK.
2. CAREFULLY REMOVE ALL DOOR HARDWARE FROM DOORS TO BE REMOVED AND RETAIN AND TURN OVER TO OWNER IN INTACT SETS.

Reference Notes

1. SEE CLASSROOM TYPE A2 DEMOLITION PLAN, THIS SHEET, FOR INTERIOR FINISH AND SPECIALTY ITEM DEMOLITION.
2. REMOVE ALL INTERIOR FINISHES, INCLUDING PLASTER / GYPSUM BOARD EXCEPT AT NEW FURRED WALL LOCATIONS, AND ALL SPECIALTY ITEMS.
3. BID ALTERNATE NO. 1 WORK ITEM.
4. SEE CLASSROOM TYPE B DEMOLITION PLAN, THIS SHEET , FOR COMPLETE SCOPE OF INTERIOR FINISH AND SPECIALTY ITEM DEMOLITION.
5. REMOVE INFILL FRAMING IN ORIGINAL DOOR OPENING.
6. RETAIN EXISTING WALL FINISHES . PATCH/ REPAIR AS REQUIRED UNLESS TO BE CONCEALED BY NEW CABINETRY.
7. EXISTING TOILET COMPARTMENT FLOORING TO REMAIN.

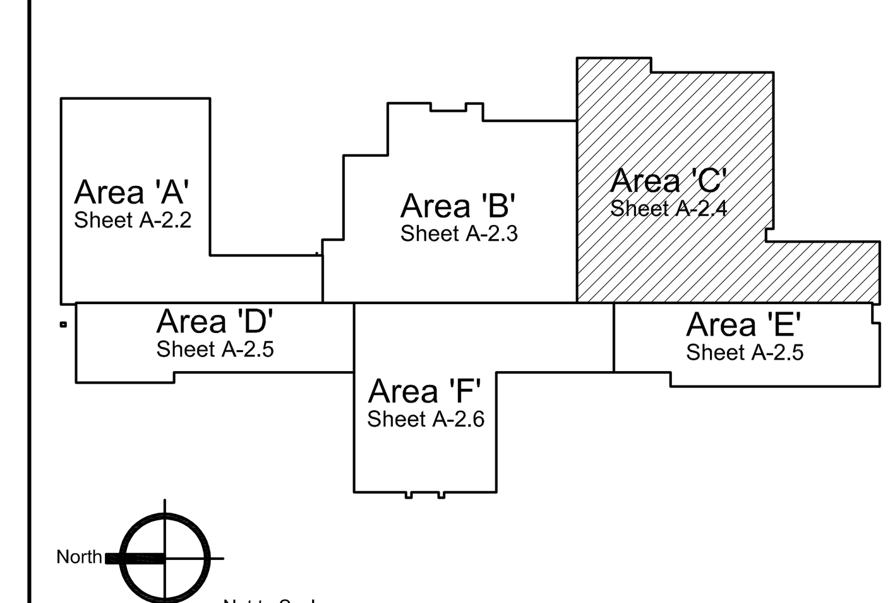
Keyed Notes

DIVISION 2 - EXISTING CONDITIONS

24119.C1	EXISTING SLAB(S) TO BE REMOVED
24119.D2	EXISTING WOOD STUD WALL(S) / FRAMING TO BE REMOVED
24119.F1	EXISTING DOOR(S) TO BE REMOVED
24119.F3	EXISTING DOOR AND FRAME / JAMB / CASING TO BE REMOVED
24119.G1	EXISTING ROOF STRUCTURE TO BE REMOVED
24119.G2	EXISTING ROOFING TO BE REMOVED
24119.H1	EXISTING MILLWORK / CABINETRY TO BE REMOVED
24119.H2	EXISTING SPECIALTY ITEMS(S) TO BE REMOVED
24119.I1	EXISTING FINISH(ES) TO BE REMOVED
24119.I2	EXISTING MASONRY VENEER TO BE REMOVED
24119.I4	EXISTING CARPET / RESILIENT FLOORING TO BE REMOVED
24119.J1	EXISTING MECHANICAL WORK TO BE REMOVED
24119.K1	EXISTING PLUMBING WORK TO BE REMOVED
24119.L1	EXISTING ELECTRICAL WORK TO BE REMOVED
24119.N1	EXISTING SUSPENDED ACOUSTIC CEILING TO BE REMOVED

ADDENDUM-01 dated 5.11.23

Key Plan



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LICENSED ARCHITECT AMBER VOGEL AR-2396 2-24-23 STATE OF IDAHO

Jefferson Elementary School Addition and Remodel

600 N. Fillmore Street, Jerome, Idaho

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LKV PROJECT #: -
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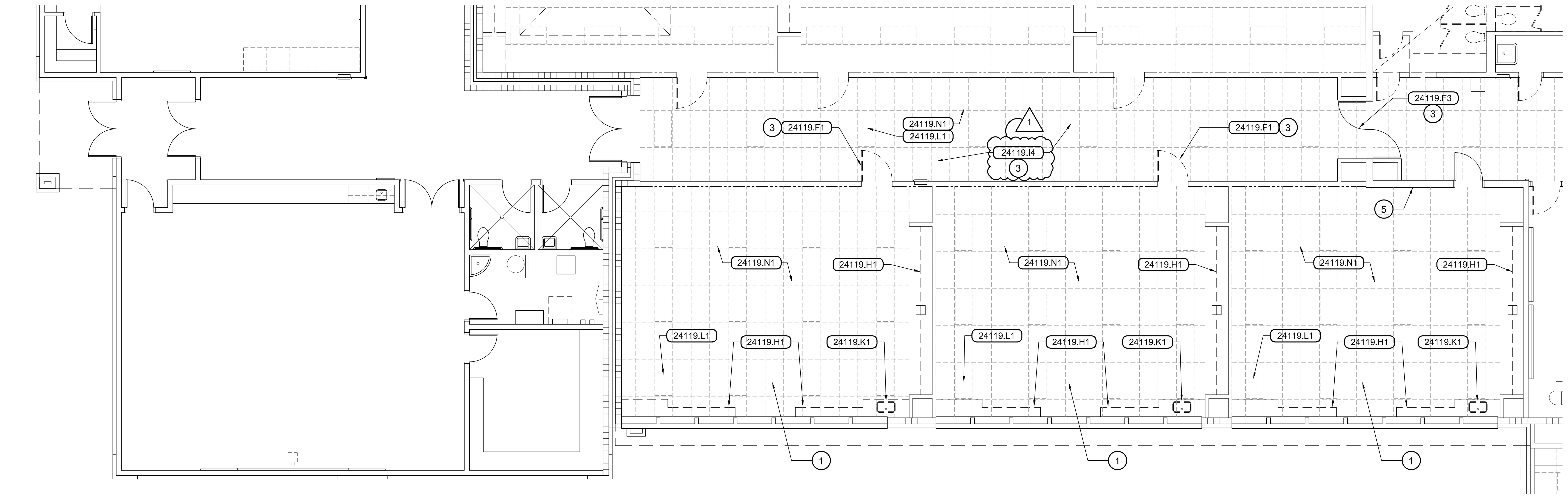
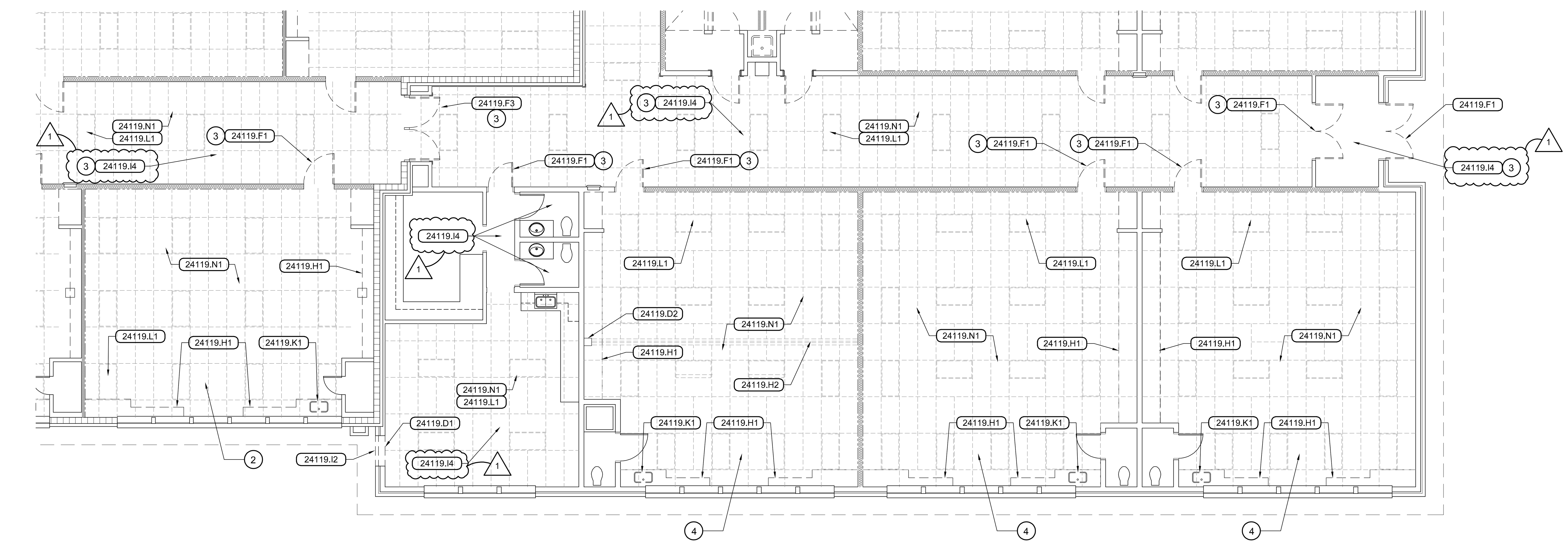


Demolition Plan - Area 'D'

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



Demolition Plan - Area 'E'

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

General Notes

1. FIELD VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING WORK.
2. CAREFULLY REMOVE ALL DOOR HARDWARE FROM DOORS TO BE REMOVED AND RETAIN AND TURN OVER TO OWNER IN INTACT SETS.

Reference Notes

1. SEE CLASSROOM TYPE A1 DEMOLITION PLAN, SHEET A-2.2, FOR INTERIOR FINISH AND SPECIALTY ITEM DEMOLITION.
2. SEE CLASSROOM TYPE A2 DEMOLITION PLAN, SHEET A-2.4, FOR COMPLETE SCOPE OF INTERIOR FINISH AND SPECIALTY ITEM DEMOLITION.
3. BID ALTERNATE NO. 1 WORK ITEM.
4. SEE CLASSROOM TYPE B DEMOLITION PLAN, SHEET A-2.4, FOR COMPLETE SCOPE OF INTERIOR FINISH AND SPECIALTY ITEM DEMOLITION.
5. NO GYPSUM BOARD REMOVAL AT FIRE WALL.

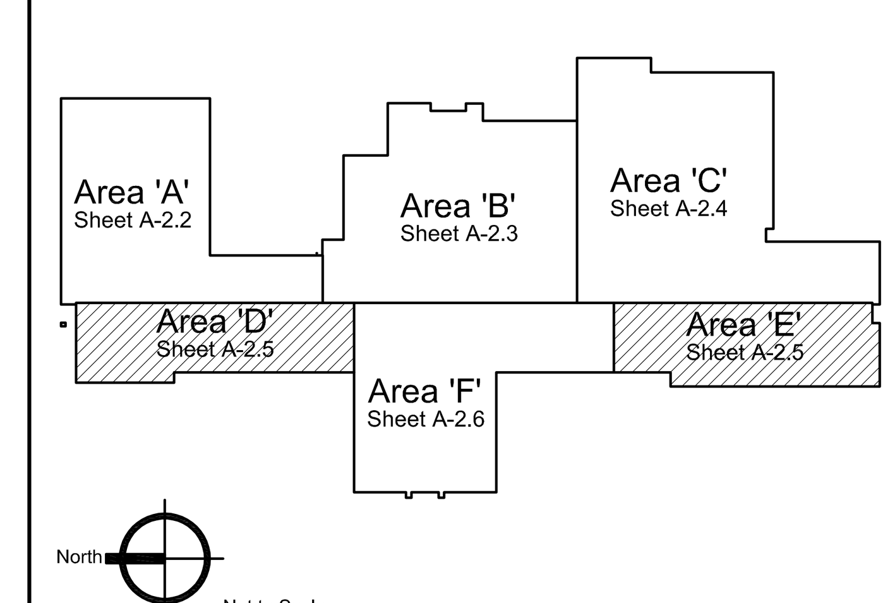
Keyed Notes

DIVISION 2 - EXISTING CONDITIONS

24119.D1	EXISTING MASONRY / CONCRETE WALL(S) TO BE REMOVED
24119.D2	EXISTING WOOD STUD WALL(S) / FRAMING TO BE REMOVED
24119.F1	EXISTING DOOR(S) TO BE REMOVED
24119.F3	EXISTING DOOR AND FRAME / JAMB / CASING TO BE REMOVED
24119.H1	EXISTING MILLWORK / CABINETRY TO BE REMOVED
24119.H2	EXISTING SPECIALTY ITEMS(S) TO BE REMOVED
24119.I2	EXISTING MASONRY VENEER TO BE REMOVED
24119.I4	EXISTING CARPET / RESILIENT FLOORING TO BE REMOVED
24119.K1	EXISTING PLUMBING WORK TO BE REMOVED
24119.L1	EXISTING ELECTRICAL WORK TO BE REMOVED
24119.N1	EXISTING SUSPENDED ACOUSTIC CEILING TO BE REMOVED

ADDENDUM-01 dated 5.11.23

Key Plan



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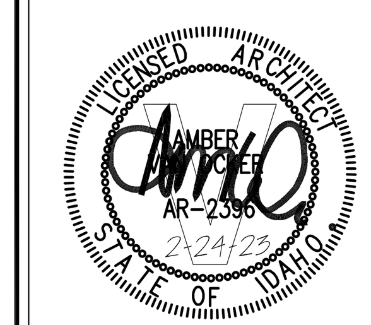

Jefferson Elementary School Addition and Remodel

600 N. Fillmore Street, Jerome, Idaho

DATE: February 24, 2023
LKV PROJECT #: -
REVISIONS:
1 5/11/23

DRAWN BY: MS
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Agency Review

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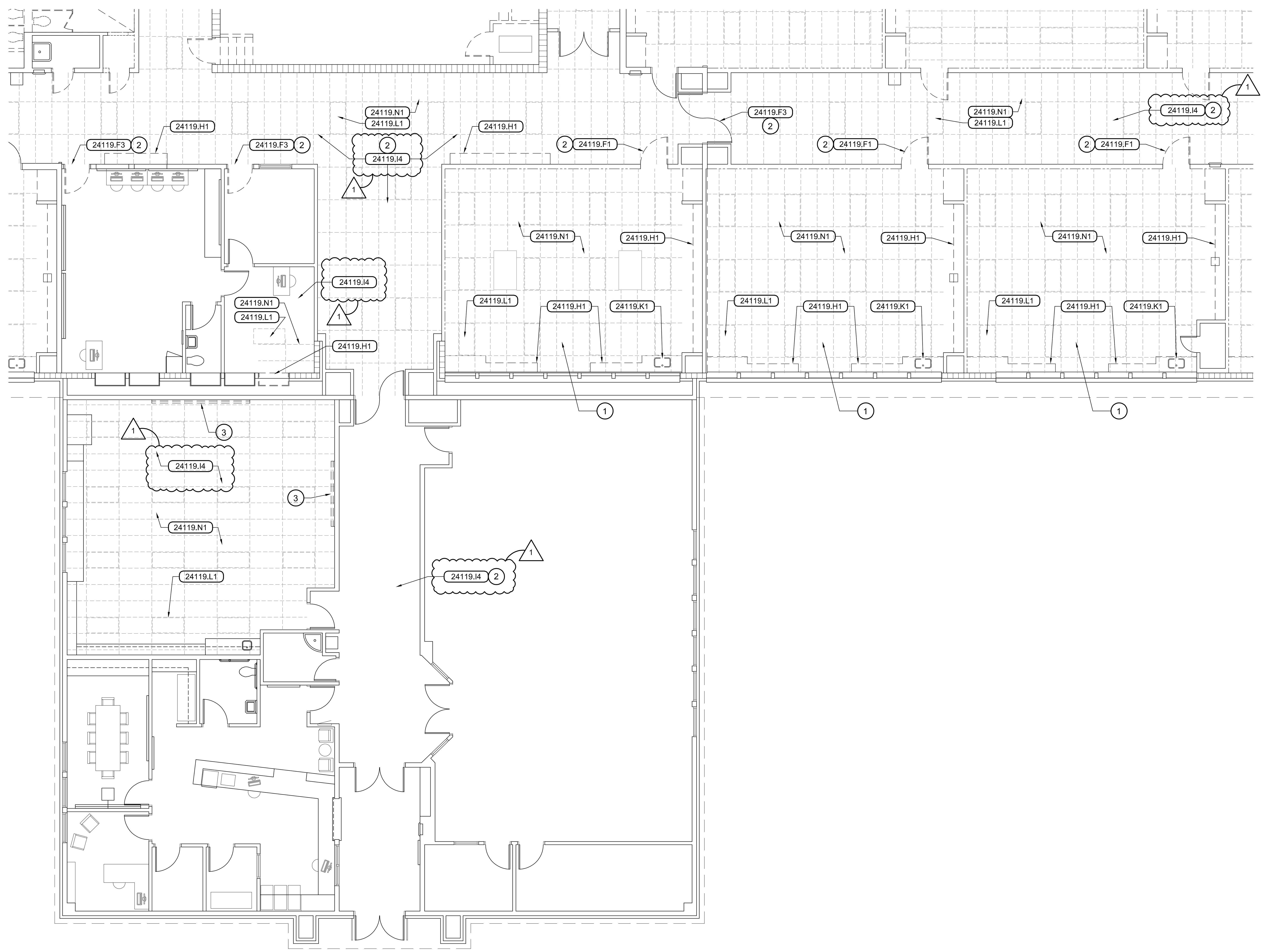
A-2.5



Demolition Plan - Area 'F'

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

General Notes

1. FIELD VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING WORK.
2. CAREFULLY REMOVE ALL DOOR HARDWARE FROM DOORS TO BE REMOVED AND RETAIN AND TURN OVER TO OWNER IN INTACT SETS.

Reference Notes

1. SEE CLASSROOM TYPE A1 DEMOLITION PLAN, SHEET A-2.2 FOR INTERIOR FINISH AND SPECIALTY ITEM DEMOLITION.
2. BID ALTERNATE NO. 1 WORK ITEM.
3. RELOCATE EXISTING MARKER BOARD PER SHEET A-3.3.

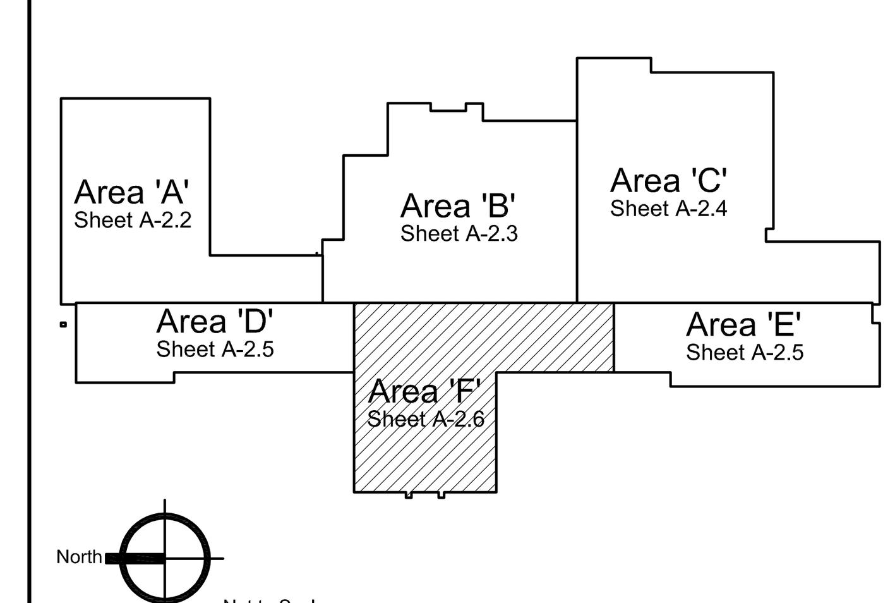
Keyed Notes

DIVISION 2 - EXISTING CONDITIONS

24119.F2	EXISTING WINDOW(S) TO BE REMOVED
24119.H1	EXISTING MILLWORK / CABINETRY TO BE REMOVED
24119.I4	EXISTING CARPET / RESILIENT FLOORING TO BE REMOVED
24119.K1	EXISTING PLUMBING WORK TO BE REMOVED
24119.L1	EXISTING ELECTRICAL WORK TO BE REMOVED
24119.N1	EXISTING SUSPENDED ACOUSTIC CEILING TO BE REMOVED

ADDENDUM-01 dated 5.11.23

Key Plan



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LICENSED ARCHITECT AMBER AR-23 STATE OF IDAHO

Jefferson Elementary School Addition and Remodel

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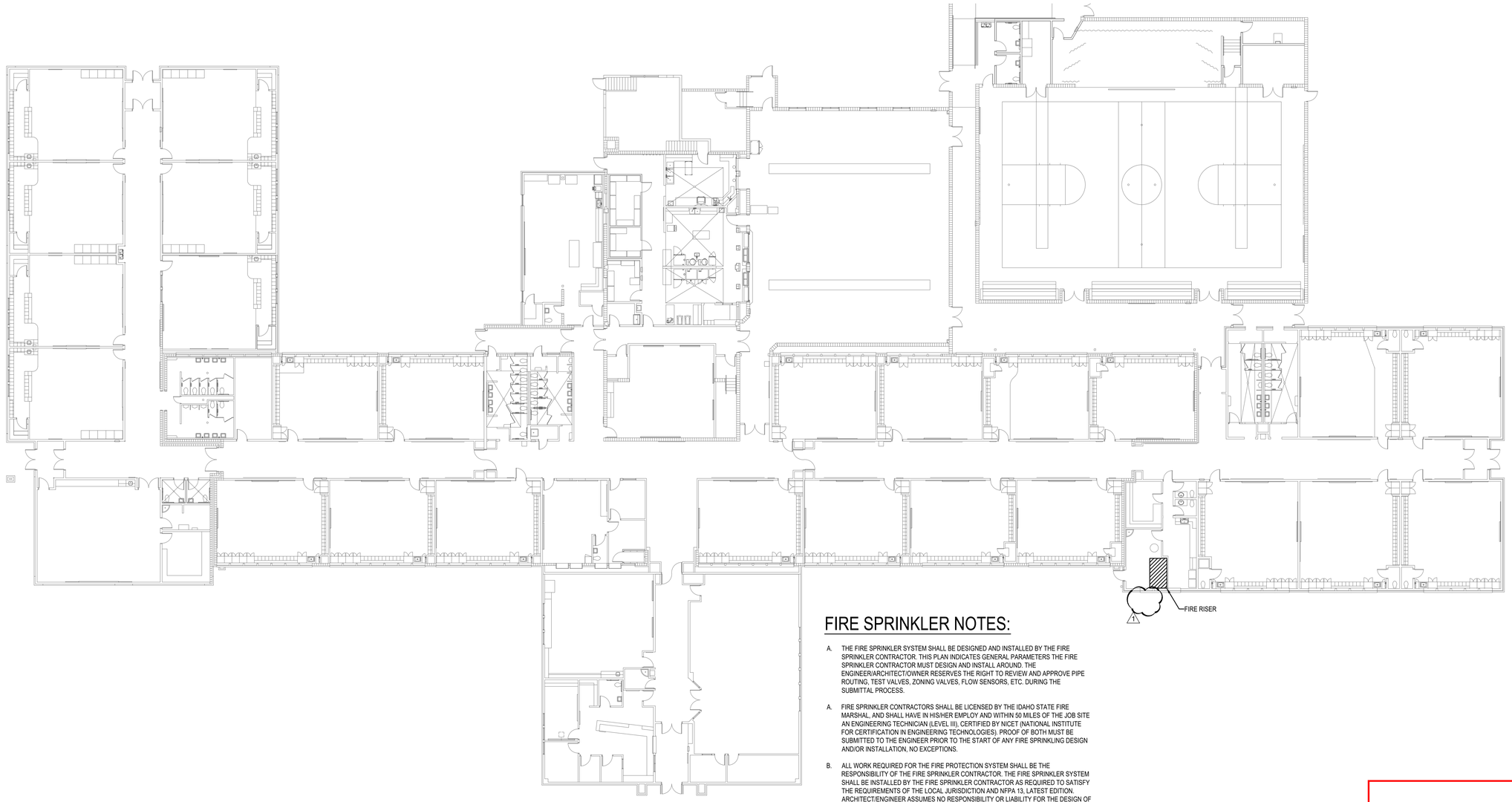


FIRE SPRINKLER NOTES:

A. THE FIRE SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY THE FIRE SPRINKLER CONTRACTOR. THIS PLAN INDICATES GENERAL PARAMETERS THE FIRE SPRINKLER CONTRACTOR MUST DESIGN AND INSTALL AROUND. THE ENGINEER/ARCHITECT/OWNER RESERVES THE RIGHT TO REVIEW AND APPROVE PIPE ROUTING, TEST VALVES, ZONING VALVES, FLOW SENSORS, ETC. DURING THE SUBMITTAL PROCESS.

A. FIRE SPRINKLER CONTRACTORS SHALL BE LICENSED BY THE IDAHO STATE FIRE MARSHAL, AND SHALL HAVE IN HIS/HER EMPLOY AND WITHIN 50 MILES OF THE JOB SITE AN ENGINEERING TECHNICIAN (LEVEL III), CERTIFIED BY NICET (NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES). PROOF OF BOTH MUST BE SUBMITTED TO THE ENGINEER PRIOR TO THE START OF ANY FIRE SPRINKLING DESIGN AND/OR INSTALLATION, NO EXCEPTIONS.

B. ALL WORK REQUIRED FOR THE FIRE PROTECTION SYSTEM SHALL BE THE RESPONSIBILITY OF THE FIRE SPRINKLER CONTRACTOR. THE FIRE SPRINKLER SYSTEM SHALL BE INSTALLED BY THE FIRE SPRINKLER CONTRACTOR AS REQUIRED TO SATISFY THE REQUIREMENTS OF THE LOCAL JURISDICTION AND NFPA 13, LATEST EDITION. ARCHITECT/ENGINEER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE DESIGN OF THE FIRE SPRINKLER SYSTEM.

C. REFER TO FIRE SPRINKLER SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

D. PROVIDE RECESSED HEADS IN ALL AREAS EXCEPT WHERE ROOM IS OPEN TO STRUCTURE.

E. PROVIDE PROTECTIVE COVERS ON SPRINKLER HEADS IN GYM AND CAFETERIA

F. NO STANDOFF SPRINKLER HEADS (THOSE THAT DROP BELOW CEILING OR SOFFIT TO PROVIDE BETTER COVERAGE) ALLOWED. ALL SPRINKLER HEADS MUST BE FLUSH WITH CEILING OR EXTERIOR SOFFIT.

G. REFERENCE ARCHITECTURAL SECTIONS FOR LOCATION OF BUILDING INSULATION ENVELOPES.

H. PROVIDE SPRINKLER COVERAGE AT ALL SKYLIGHTS REQUIRING COVERAGE. COORDINATE EXACT ROUTING OF SPRINKLER LINE WITH THE ARCHITECT.

I. PIPE ALL AUXILIARY DRAINS TO EXTERIOR OF BUILDING OR APPROVED RECEPTACLE. COORDINATE WITH ARCHITECT.

J. IN COLD SPACES WHERE A NON-FREEZE FIRE SPRINKLER SYSTEM IS REQUIRED, CONTRACTOR SHALL PROVIDE A DRY PIPE SPRINKLER SYSTEM. THE SYSTEM IN ALL OTHER AREA SHALL BE WET PIPE.

K. PIPING SHALL RUN ABOVE CEILING IN ALL BUILDING AREAS WITH SUSPENDED OR DROPPED CEILING.

L. ALL EXPOSED PIPING LOCATIONS, HORIZONTAL AND VERTICAL, SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.

M. FDC SHALL BE REMOTE MOUNTED LOCATION SHALL BE APPROVED BY JEROME FIRE CODE OFFICIAL. 1

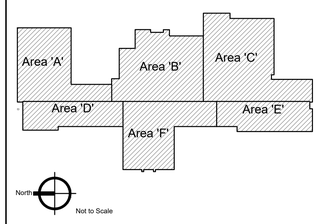
N

Fire Protection Criteria Plan

Scale: 1/16" = 1'-0"

ADDENDUM-01 dated 5.11.23

Key Plan



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PROFESSIONAL ENGINEER LICENSED 16683 5/11/2023 STATE OF IDAHO CHRISTOPHER DYKE

Revisions		
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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: JM/CD
CHECKED BY: BC

Agency Review

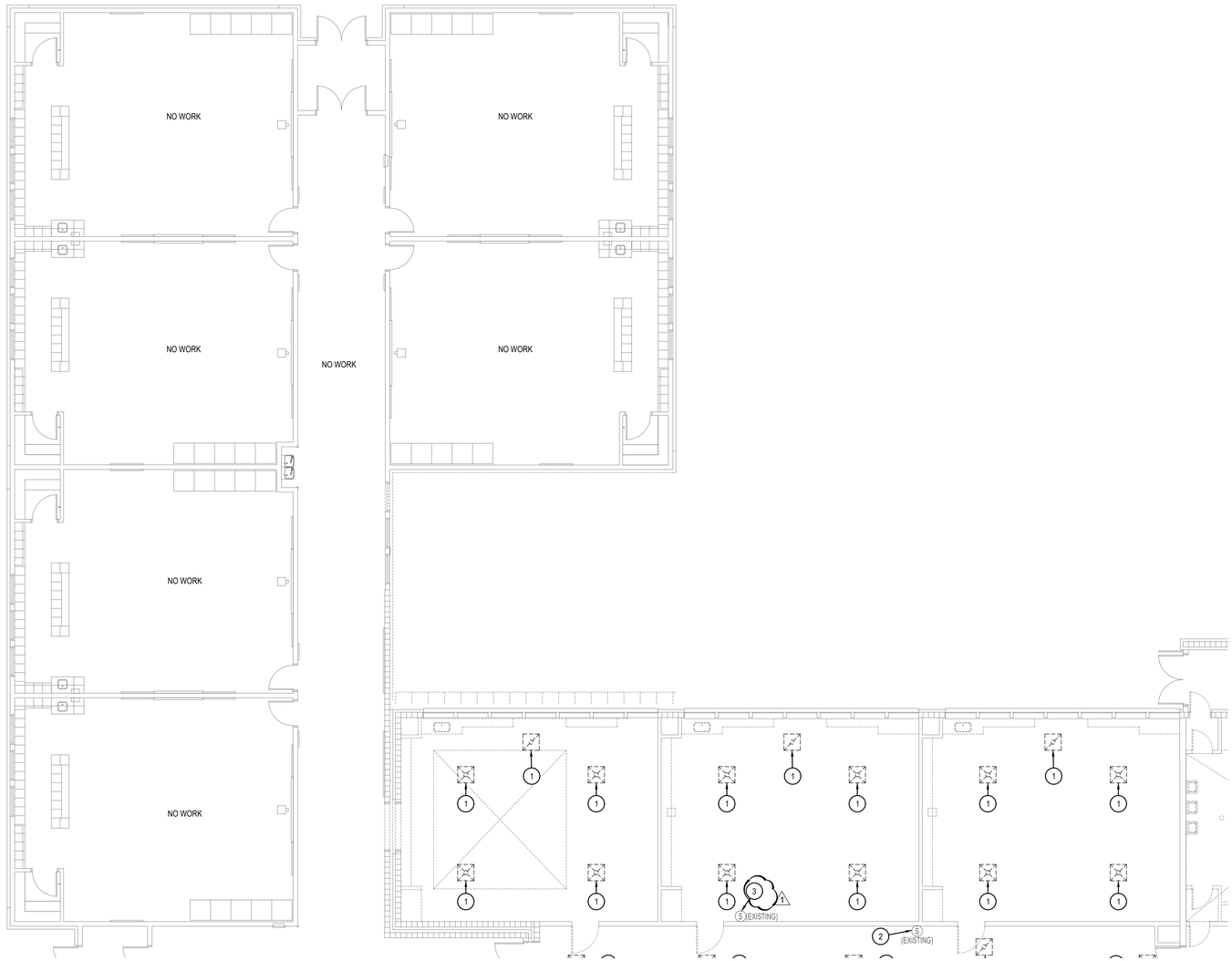
DRAWING NO.

M-0.2

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. REMOVE EXISTING GRILLE / DIFFUSER FOR NEW WORK. ASSOCIATED DUCTWORK SHALL REMAIN.
2. BID ALT#2: REMOVE EXISTING WALL SENSOR AND ASSOCIATED WIRE.
3. SENSOR TO BE REMOVED. (1)

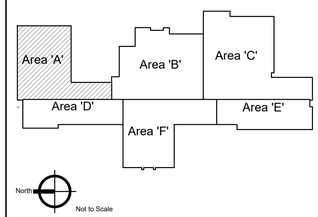


N. 1 Mechanical Demolition Plan - Area 'A'

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

ADDENDUM-01 dated 5.11.23

Key Plan



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Agency Review

DRAWING NO.

M-1.1

KEYED NOTES:

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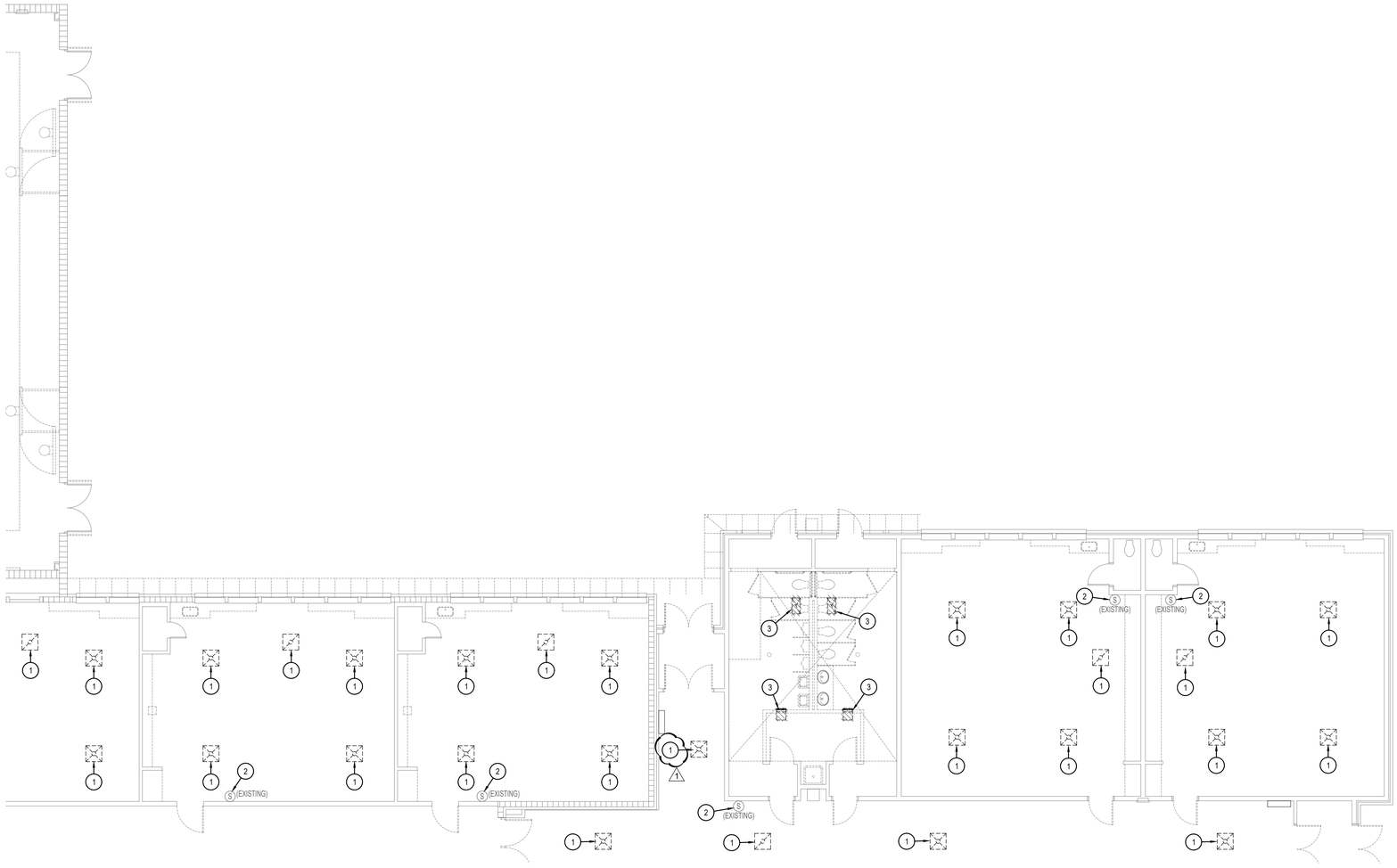
2. BID ALT#2: REMOVE EXISTING WALL SENSOR AND ASSOCIATED WIRE.
3. REMOVE EXISTING DUCTWORK AND ASSOCIATED GRILLES.

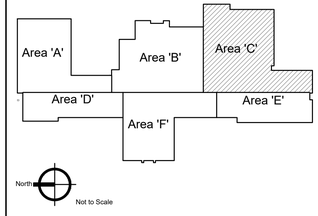


N. 1 Mechanical Demolition Plan - Area 'C'

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

ADDENDUM-01 dated 5.11.23

Key Plan



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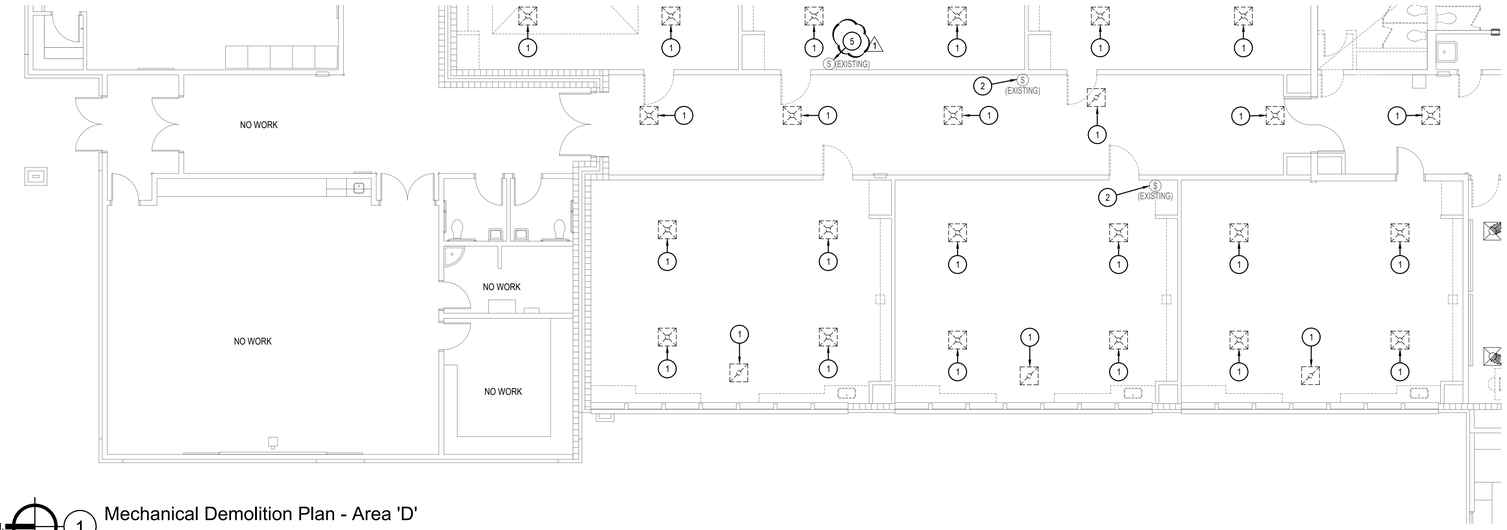
M-1.3



N. 1 Mechanical Demolition Plan - Area 'D'

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

N. 2 Mechanical Demolition Plan - Area 'E'

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

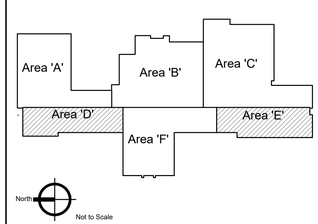
KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. REMOVE EXISTING GRILLE / DIFFUSER FOR NEW WORK. ASSOCIATED DUCTWORK SHALL REMAIN.
2. BID ALT#2: REMOVE EXISTING WALL SENSOR AND ASSOCIATED WIRE.
3. EXISTING EXHAUST FANS REMAIN.
4. REMOVE EXISTING GRILLE / DIFFUSER AND ALL ASSOCIATED DUCTWORK.
5. REMOVE EXISTING WALL SENSOR AND ASSOCIATED WIRE.

ADDENDUM-01 dated 5.11.23

Key Plan



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DRAWING NO.

M-1.4

N. 1 Mechanical New Work Plan - Area 'A'

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

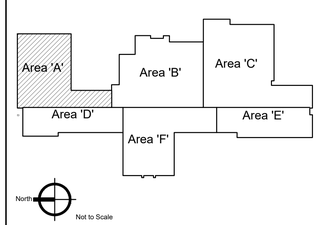
KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. ROUTE RETURN AND SUPPLY DUCTS UP THROUGH ROOF AND TRANSITION TO UNIT AS REQUIRED. PROVIDE TURNING VANES IN ELBOWS AND A FLEXIBLE DUCT CONNECTION AT UNIT.
2. PROVIDE TRANSFER DUCT AND GRILLES, MOUNT BOTTOM OF GRILLES 6" AFF. SIZE DUCT SAME AS GRILLE.
3. CONNECT NEW RTU TO EXISTING DUCTWORK. TRANSITION DUCTWORK AS REQUIRED. PROVIDE FLEXIBLE CONNECTION AT UNIT. FIELD VERIFY EXACT CONDITIONS.
4. PROVIDE NEW SUPPLY DIFFUSER IN NEW CEILING. CONNECT TO EXISTING SUPPLY DUCTWORK. BALANCE AIR FLOW AS INDICATED.
5. PROVIDE NEW RETURN GRILLE IN NEW CEILING. CONNECT TO EXISTING RETURN DUCTWORK.
6. ROUTE EXHAUST DUCT UP THROUGH ROOF TO ROOF MOUNTED EXHAUST FAN. TRANSITION TO UNIT AS REQUIRED, PROVIDE FLEXIBLE DUCT CONNECTION.
7. SMOKE DUCT DETECTOR IN RETURN DUCT SHALL SHUT DOWN UNIT UPON DETECTION OF SMOKE. SMOKE DETECTOR SHALL BE PROVIDED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
8. BID ALT#2: CONNECT EXISTING DUCT DROPS TO NEW UNIT. MODIFICATION SHALL BE REQUIRED. WHERE APPLIES REUSE EXISTING SMOKE DUCT DETECTOR.

ADDENDUM-01 dated 5.11.23

Key Plan



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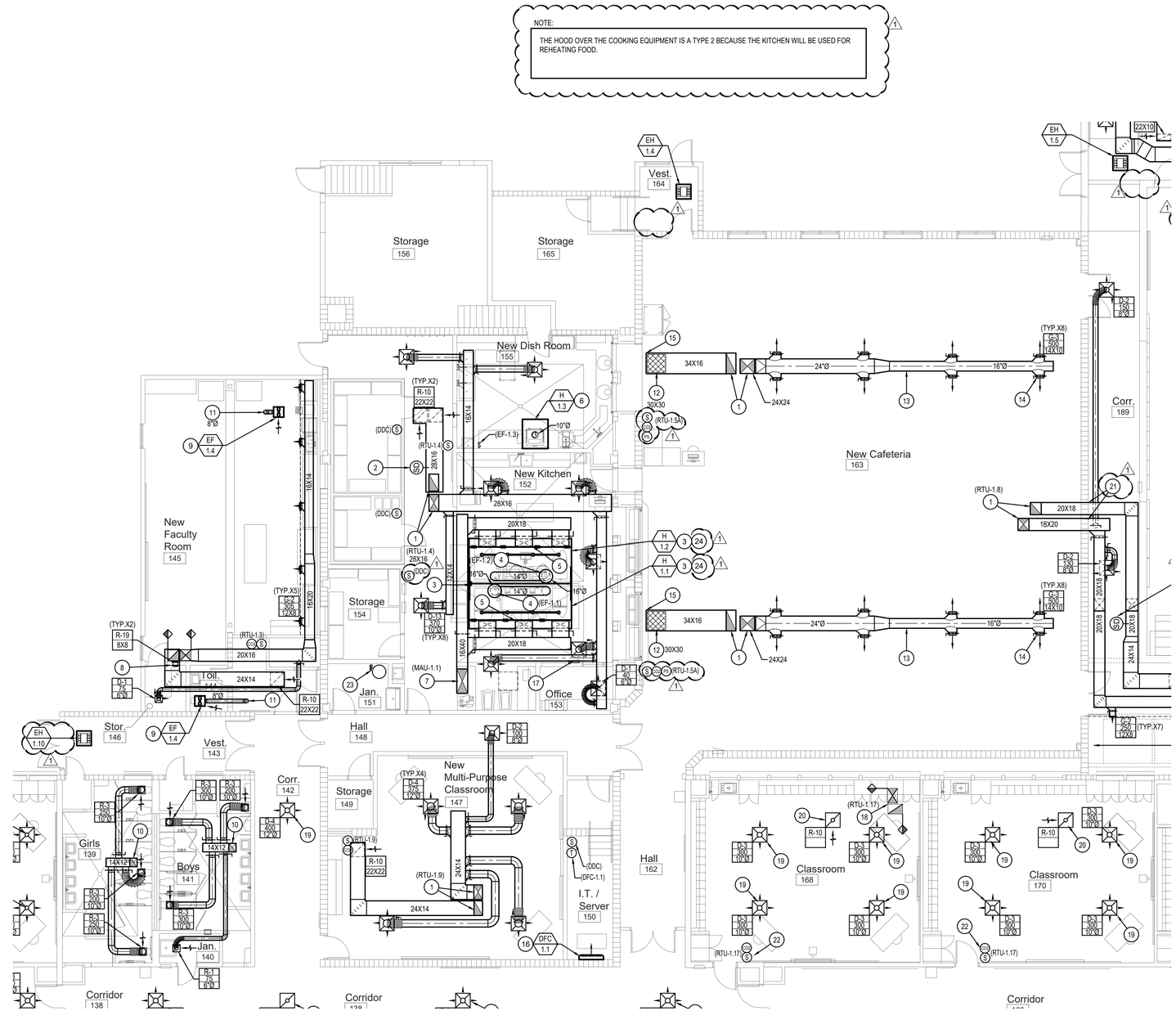
M-2.1



1 Mechanical New Work Plan - Area 'B'

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

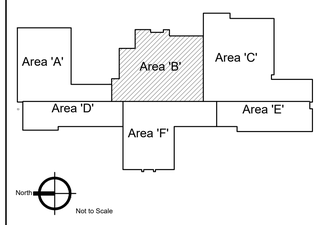
KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. ROUTE RETURN AND SUPPLY DUCTS UP THROUGH ROOF AND TRANSITION TO UNIT AS REQUIRED. PROVIDE TURNING VANES IN ELBOWS AND A FLEXIBLE DUCT CONNECTION AT UNIT.
2. SMOKE DUCT DETECTOR IN RETURN DUCT SHALL SHUT DOWN UNIT UPON DETECTION OF SMOKE. SMOKE DETECTOR SHALL BE PROVIDED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
3. MOUNT TYPE II HOODS BACK TO BACK , MOUNT BOTTOM OF HOOD AT 6'-8" AFF.
4. PROVIDE AND CONNECT TYPE II DUCTWORK TO TYPE II HOOD. ROUTE DUCT TO ROOF MOUNTED EXHAUST FAN. 1
5. PROVIDE AND CONNECT MAKE UP AIR DUCTWORK TO HOOD PLENUM. 28X12 BRANCH DUCTS WITH DAMPER, EVENLY DIVIDE MAKE UP AIR TO EACH BRANCH DUCT.
6. MOUNT DISH HOOD ABOVE DISH MACHINE. PROVIDE AND ROUTE ALUMINUM DUCT UP THROUGH ROOF AND CONNECT TO EXHAUST FAN.
7. ROUTE SUPPLY DUCT UP THROUGH ROOF AND TRANSITION TO MAKE UP AIR UNIT AS REQUIRED. PROVIDE TURNING VANES IN ELBOWS AND A FLEXIBLE DUCT CONNECTION AT UNIT.
8. PROVIDE TRANSFER DUCT AND GRILLES, MOUNT BOTTOM OF GRILLES 6" AFF. SIZE DUCT SAME AS GRILLE.
9. CEILING CABINET EXHAUST FAN. PROVIDE VIBRATION ISOLATION AND FLEXIBLE DUCT CONNECTION.
10. ROUTE EXHAUST DUCT UP THROUGH ROOF TO ROOF MOUNTED EXHAUST FAN. TRANSITION TO UNIT AS REQUIRED, PROVIDE FLEXIBLE DUCT CONNECTION.
11. ROUTE EXHAUST DUCT UP THROUGH ROOF. SEE HVAC ROOF PLAN FOR CONTINUATION.
12. PROVIDE OPENING ON TOP SIDE OF DUCT, COVER WITH EXPANDED METAL SCREENING, MAINTAIN A MINIMUM DISTANCE OF 4" BETWEEN OPENING (TOP SIDE OF DUCT) AND STRUCTURE. SIZE OF OPENING AS INDICATED.
13. SUSPEND EXPOSED ROUND SPIRAL DUCTWORK, SEE DETAIL.
14. PROVIDE TAKE OFF WITH DAMPER AND GRILLE, ANGLE TAKE OFF 30 DEGREES DOWNWARD FROM HORIZONTAL, TYPICAL. SEE DETAIL.
15. INTERNALLY LINE RETURN DUCTWORK THE ENTIRE LENGTH FROM UNIT TO END OF DUCTWORK. NO EXTERNAL INSULATION.
16. MOUNT DUCTLESS SPLIT FAN COIL HIGH ON WALL. MAINTAIN MANUFACTURERS REQUIRED CLEARANCES. ROUTE REFRIGERATION LINES HIDDEN OUT OF SITE IN WALLS AND CEILINGS TO ROOF MOUNTED CORRESPONDING CONDENSING UNIT.
17. MOUNT HOOD CONTROL PANEL ON WALL AT THIS LOCATION.
18. BID ALT#2: CONNECT EXISTING DUCT DROPS TO NEW UNIT. MODIFICATION SHALL BE REQUIRED. WHERE APPLIES REUSE EXISTING SMOKE DUCT DETECTOR.
19. PROVIDE NEW SUPPLY DIFFUSER IN NEW CEILING. CONNECT TO EXISTING SUPPLY DUCTWORK. BALANCE AIR FLOW AS INDICATED.
20. PROVIDE NEW RETURN GRILLE IN NEW CEILING. CONNECT TO EXISTING RETURN DUCTWORK.
21. PENETRATE EXISTING CMU WALL AS CLOSE TO UNDERSIDE OF CORRIDOR 189 ROOF DECK AS POSSIBLE.
22. BID ALT#2: PROVIDE NEW DDC SENSORS.
23. PROVIDE INTAKE AND FLUE PIPING FOR WATER HEATER, ROUTE UP THROUGH ROOF AND TERMINATE WITH CONCENTRIC VENT. SEE DETAIL.
24. TEMPERATURE SENSOR FOR HOOD CONTROL. ELECTRICAL TO PROVIDE CONDUIT AND MECHANICAL TO PROVIDE AND RUN WIRE. 1

ADDENDUM-01 dated 5.11.23

Key Plan



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

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LKV PROJECT #: -
REVISIONS:

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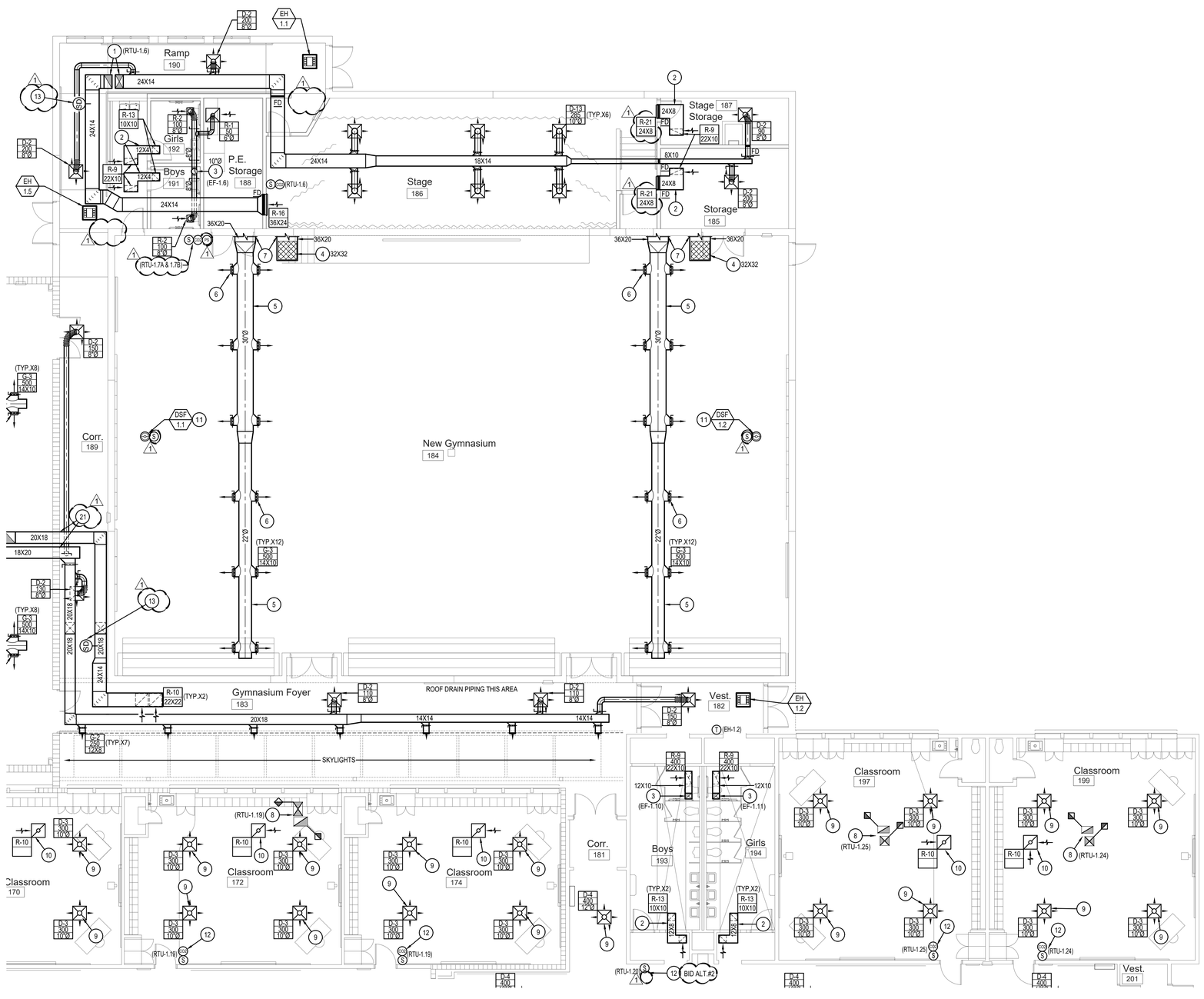


N. 1 Mechanical New Work Plan - Area 'C'

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

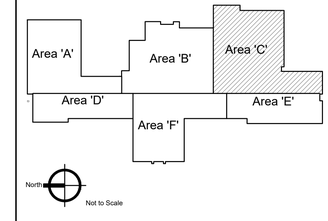
KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. ROUTE RETURN AND SUPPLY DUCTS UP THROUGH ROOF AND TRANSITION TO UNIT AS REQUIRED. PROVIDE TURNING VANES IN ELBOWS AND A FLEXIBLE DUCT CONNECTION AT UNIT.
2. PROVIDE TRANSFER DUCT AND GRILLES, AT CEILING. SEE DETAIL.
3. ROUTE EXHAUST DUCT UP THROUGH ROOF TO ROOF MOUNTED EXHAUST FAN. TRANSITION TO UNIT AS REQUIRED, PROVIDE FLEXIBLE DUCT CONNECTION.
4. PROVIDE OPENING ON TOP SIDE OF DUCT, COVER WITH EXPANDED METAL SCREENING, MAINTAIN A MINIMUM DISTANCE OF 6" BETWEEN OPENING (TOP SIDE OF DUCT) AND STRUCTURE. SIZE OF OPENING AS INDICATED.
5. SUSPEND EXPOSED ROUND SPIRAL DUCTWORK, SEE DETAIL.
6. PROVIDE TAKE OFF WITH DAMPER AND GRILLE, ANGLE TAKE OFF 45 DEGREES DOWNWARD FROM HORIZONTAL, TYPICAL. SEE DETAIL.
7. ROUTE DUCTWORK THROUGH WALL TO LOWER ROOF, SEE HVAC ROOF PLAN FOR CONTINUATION.
8. BID ALT#2: CONNECT EXISTING DUCT DROPS TO NEW UNIT. MODIFICATION SHALL BE REQUIRED. WHERE APPLIES REUSE EXISTING SMOKE DUCT DETECTOR.
9. PROVIDE NEW SUPPLY DIFFUSER IN NEW CEILING. CONNECT TO EXISTING SUPPLY DUCTWORK. BALANCE AIR FLOW AS INDICATED.
10. PROVIDE NEW RETURN GRILLE IN NEW CEILING. CONNECT TO EXISTING RETURN DUCTWORK.
11. SUSPEND DESTRATIFICATION FAN HIGH IN STRUCTURE. SEE DETAIL AND DDC SCHEMATIC.
12. BID ALT#2: PROVIDE NEW DDC SENSORS.
13. SMOKE DUCT DETECTOR IN RETURN DUCT SHALL SHUT DOWN UNIT UPON DETECTION OF SMOKE. SMOKE DETECTOR SHALL BE PROVIDED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.

ADDENDUM-01 dated 5.11.23

Key Plan



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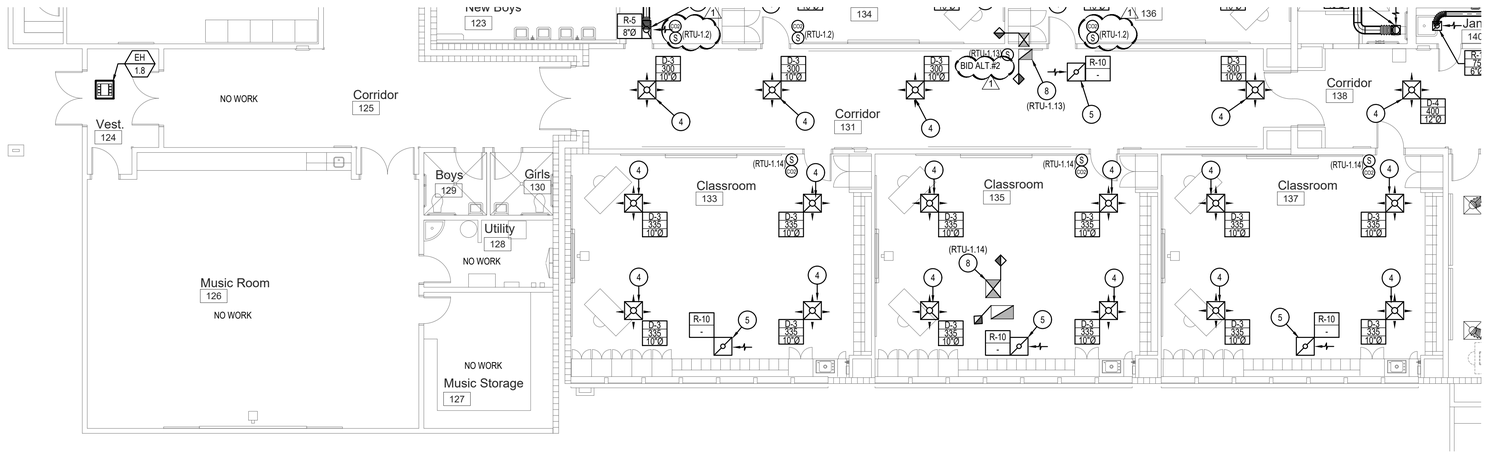
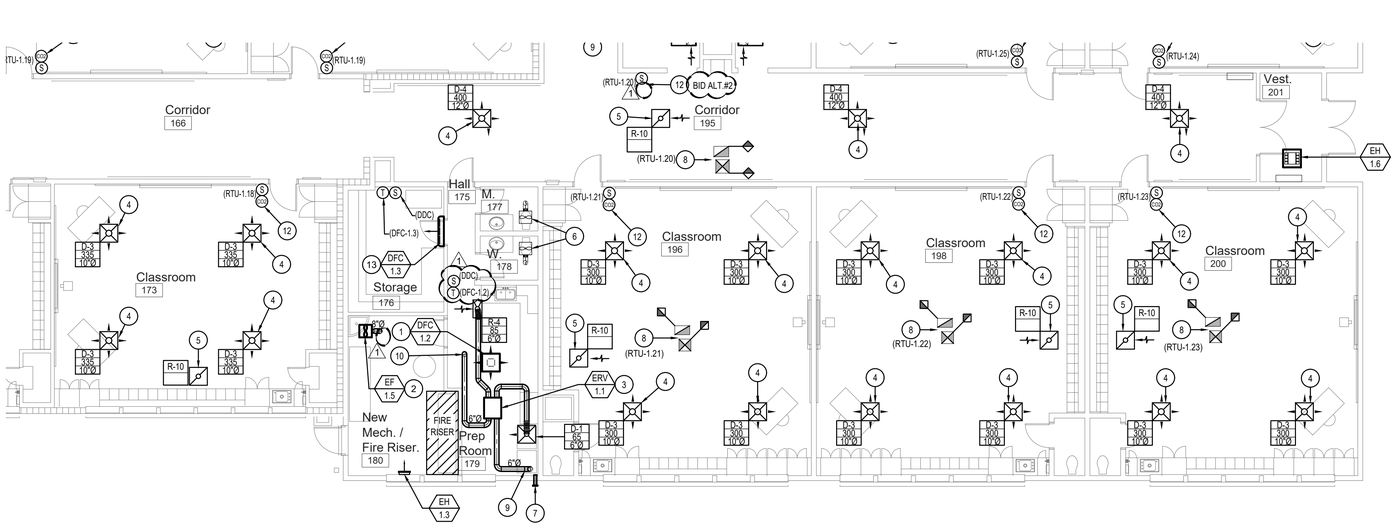
DRAWING NO.

M-2.3



N. 1 Mechanical New Work Plan - Area 'D'

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



N. 2 Mechanical New Work Plan - Area 'E'

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

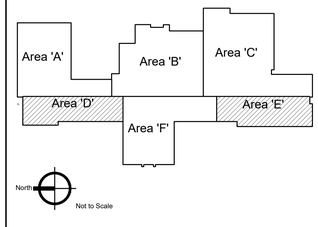
KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. PROVIDE CEILING MOUNTED DUCTLESS FAN COIL CASSETTE. ROUTE REFRIGERATION LINES TO CORRESPONDING ROOF MOUNTED UNIT.
2. PROVIDE AND SURFACE MOUNT CEILING MOUNTED EXHAUST FAN, LOCATE FAN BELOW FIRE RATED CEILING. FABRICATE FRAME TO HOUSE FAN. PROVIDE FLEX CONNECTION AND VIBRATION ISOLATION, ROUTE DUCT UP THROUGH FIRE RATED CEILING PROTECT RATING WITH FIRE DAMPER AND ROUTE DUCT UP THROUGH ROOF, TERMINATE WITH CURB AND CAP.
3. PROVIDE ERU ABOVE CEILING. PROVIDE FLEX CONNECTIONS AND VIBRATION ISOLATION.
4. PROVIDE NEW SUPPLY DIFFUSER IN NEW CEILING. CONNECT TO EXISTING SUPPLY DUCTWORK. BALANCE AIR FLOW AS INDICATED.
5. PROVIDE NEW RETURN GRILLE IN NEW CEILING. CONNECT TO EXISTING RETURN DUCTWORK.
6. EXISTING EXHAUST FAN TO REMAIN, NO WORK.
7. ROUTE 4" DRYER DUCT FROM DRYER TO EXTERIOR WALL, TERMINATE WITH METAL DRYER WALL VENT.
8. BID ALT#2: CONNECT EXISTING DUCT DROPS TO NEW UNIT. MODIFICATION SHALL BE REQUIRED. WHERE APPLIES REUSE EXISTING SMOKE DUCT DETECTOR.
9. ROUTE ERU EXHAUST UP THROUGH ROOF. MAINTAIN A MINIMUM DISTANCE OF 10'-0" FROM ANY FRESH AIR INTAKE.
10. ROUTE ERU FRESH AIR INTAKE DUCT UP THROUGH ROOF.
11. NOT USED.
12. BID ALT#2: PROVIDE NEW DDC SENSORS.
13. MOUNT DUCTLESS SPLIT FAN COIL HIGH ABOVE DOOR. MAINTAIN MANUFACTURERS REQUIRED CLEARANCES. ROUTE REFRIGERATION LINES HIDDEN OUT OF SITE IN WALLS AND CEILINGS TO ROOF MOUNTED CORRESPONDING CONDENSING UNIT.

ADDENDUM-01 dated 5.11.23

Key Plan



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Project No. 22-104

PROFESSIONAL ENGINEER LICENSED 16683 5/11/2023 STATE OF IDAHO CHRISTOPHER DYKE

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

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

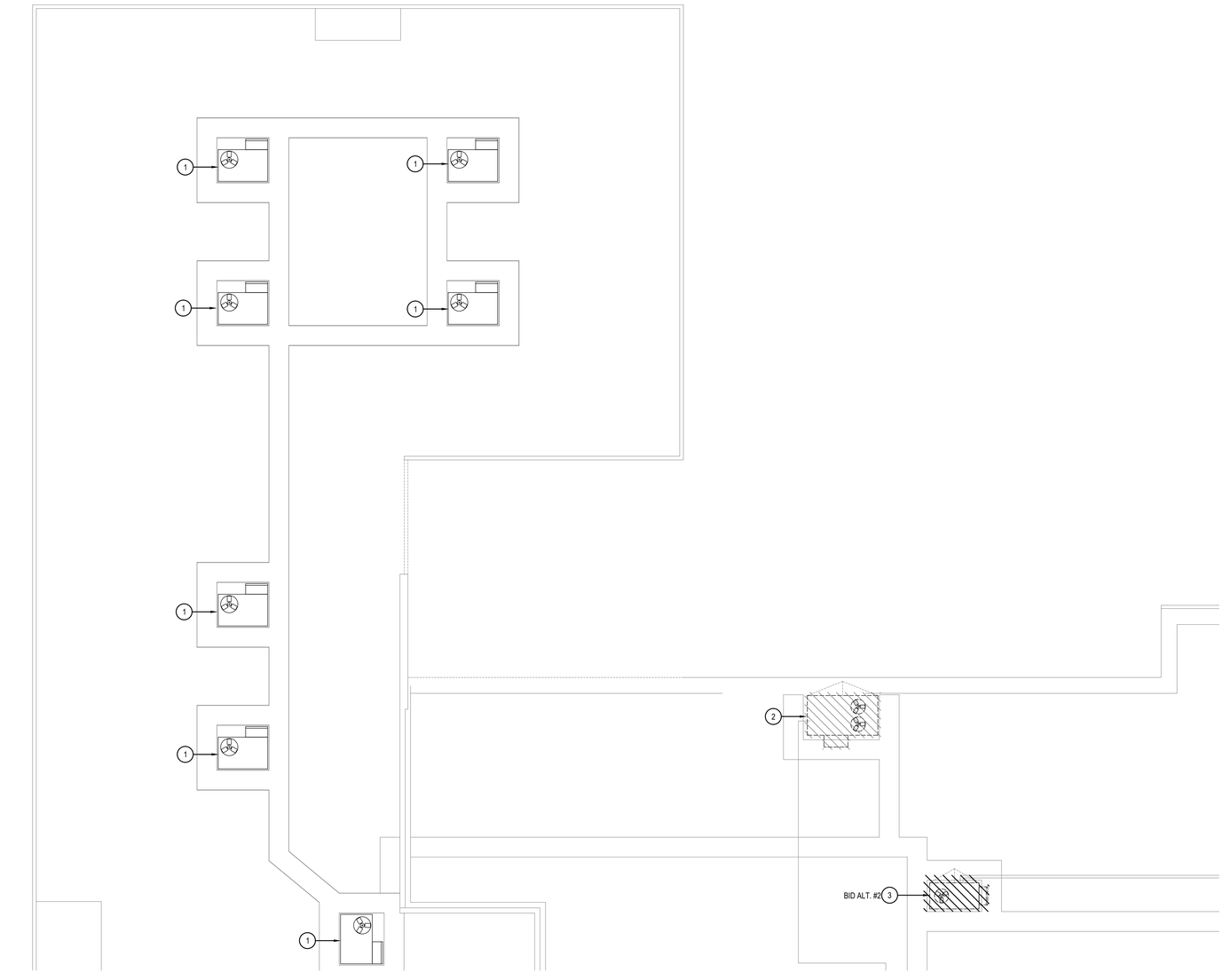
DATE: February 24, 2023
LKV PROJECT #: -
REVISIONS:

DRAWN BY: JM/CD
CHECKED BY: BC

Agency Review

DRAWING NO.

M-2.4



N. 1 Mechanical Demolition Roof Plan - Area 'A'

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

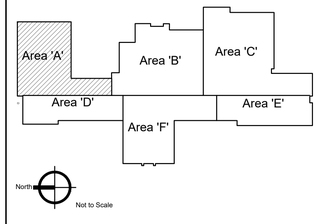
KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. (1) NO WORK TO EXISTING UNIT REMAIN AS IS.
2. DISCONNECT EXISTING GAS LINE TO BE REUSED IN NEW WORK, REMOVE EXISTING UNIT AND EXISTING CURB. ROOF PENETRATION SHALL BE REUSED.
3. (1) DISCONNECT EXISTING GAS LINE TO BE REUSED IN NEW WORK, REMOVE EXISTING UNIT AND EXISTING CURB UNDER BID ALT. #2

ADDENDUM-01 dated 5.11.23

Key Plan



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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: JM/CD
CHECKED BY: BC

Agency Review

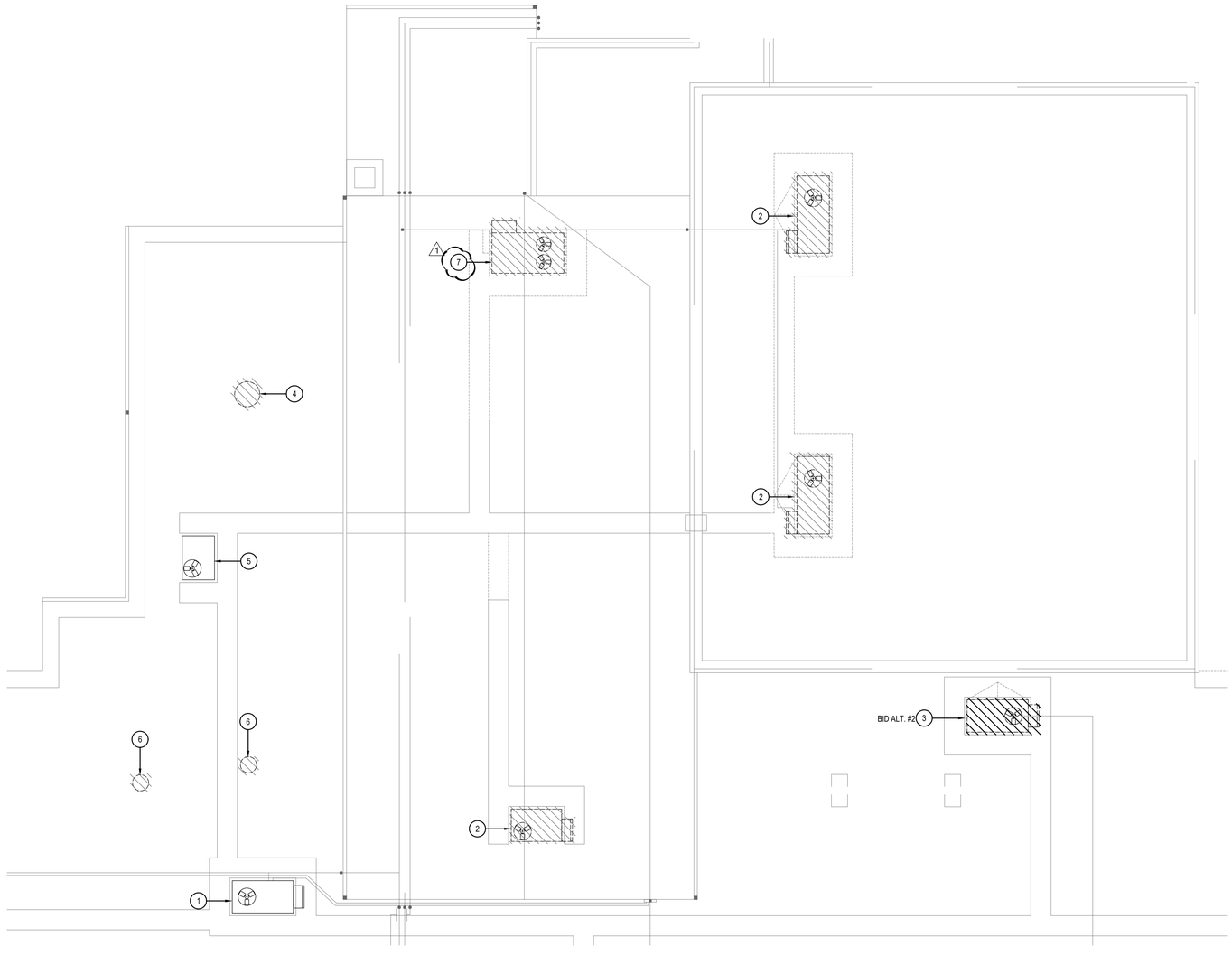
DRAWING NO.

M-3.1

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. (1) NO WORK TO EXISTING UNIT REMAIN AS IS.
2. DISCONNECT EXISTING GAS LINE TO BE REUSED IN NEW WORK, REMOVE EXISTING UNIT AND EXISTING CURB. ROOF PENETRATION SHALL BE REUSED. (1)
3. DISCONNECT EXISTING GAS LINE TO BE REUSED IN NEW WORK, REMOVE EXISTING UNIT AND EXISTING CURB UNDER BID ALT. #2.
4. REMOVE EXISTING EXHAUST FAN AND CURB, PATCH ROOF TO MATCH EXISTING.
5. EXISTING RTU SHALL REMAIN.
6. REMOVE EXISTING EXHAUST FAN AND CURB, RE-USE OPENING FOR NEW WORK.
7. DISCONNECT EXISTNG GAS LINE AND CAP. REMOVE EXISTING UNIT. ROOF PENETRATION SHALL NOT BE REUSED. CAP CURB WEATHER TIGHT. (1)

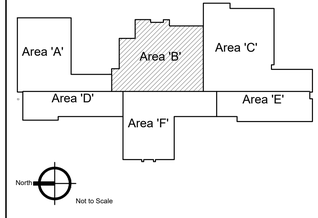


N. 1 Mechanical Demolition Plan - Area 'B'

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

ADDENDUM-01 dated 5.11.23

Key Plan



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REVISIONS:

DRAWN BY: JM/CD
CHECKED BY: BC

Agency Review

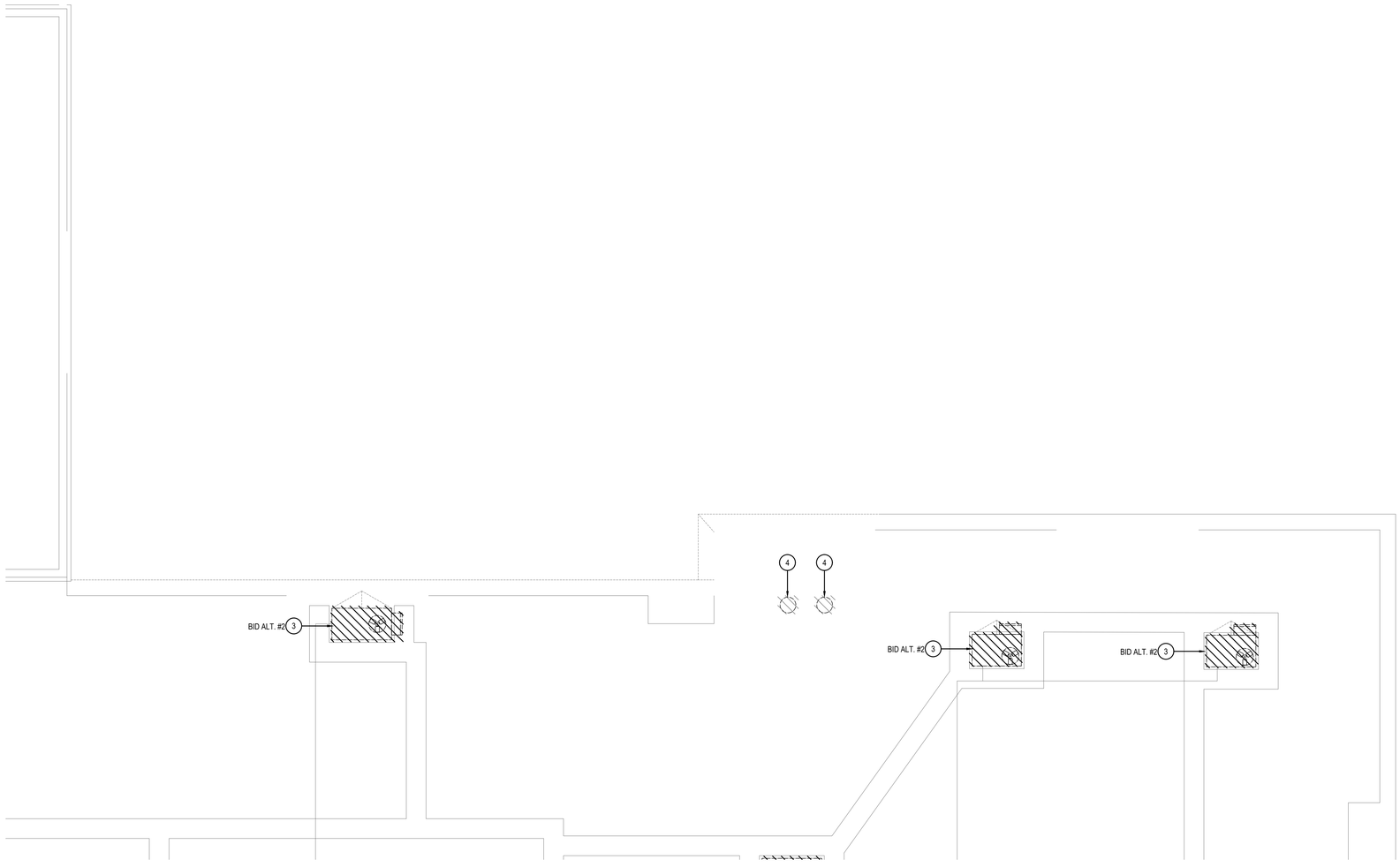
DRAWING NO.

M-3.2

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. NOT USED.
2. NOT USED.
3. DISCONNECT EXISTING GAS LINE TO BE REUSED IN NEW WORK, REMOVE EXISTING UNIT AND EXISTING CURB UNDER BID ALT. #2.
4. REMOVE EXISTING EXHAUST FAN AND CURB, RE-USE OPENING FOR NEW .

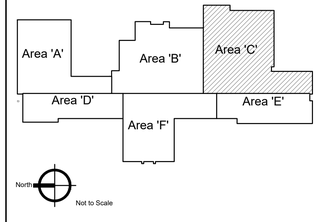


N. 1 Mechanical Demolition Roof Plan - Area 'C'

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

ADDENDUM-01 dated 5.11.23

Key Plan



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DRAWN BY: JM/CD
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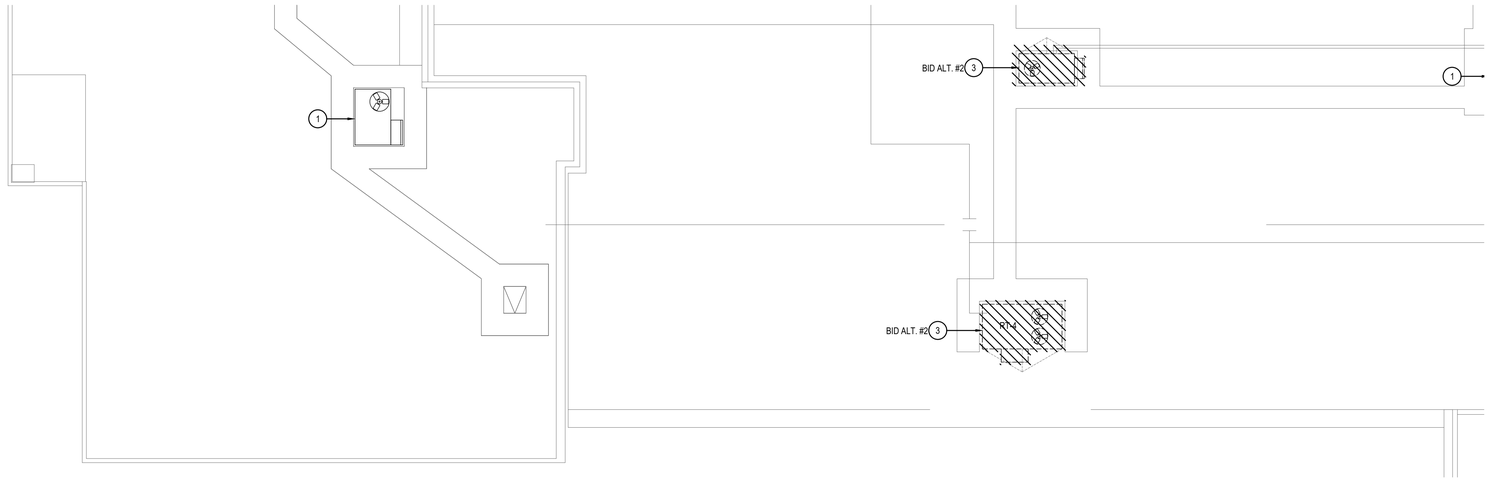
Agency Review

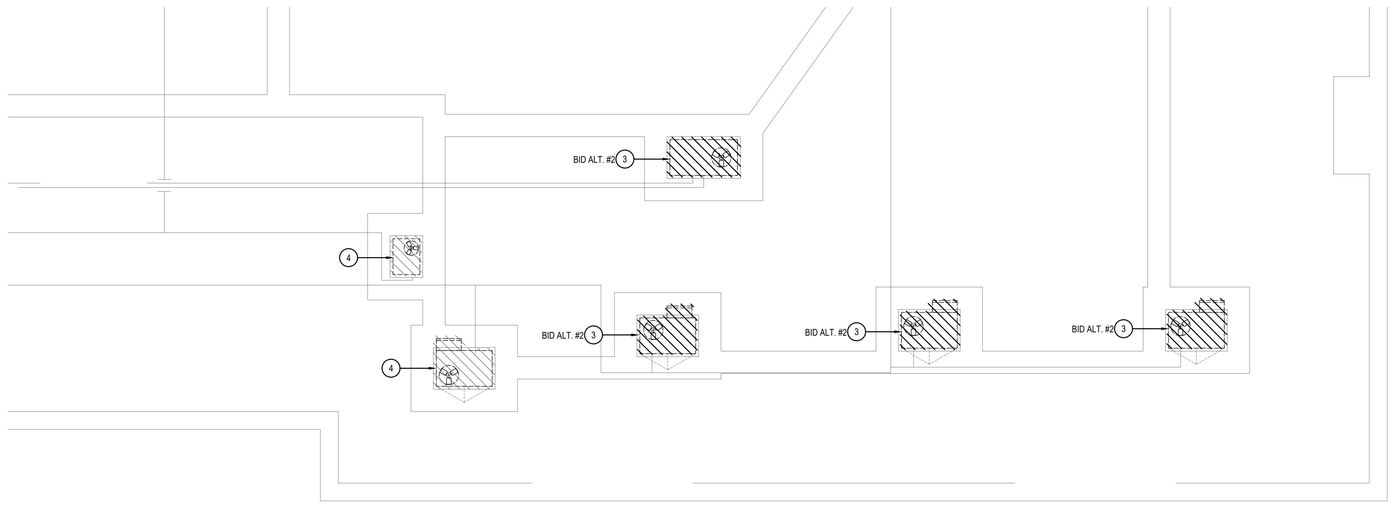
DRAWING NO.

M-3.3



N. 1 Mechanical Demolition Roof Plan - Area 'D'

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



N. 2 Mechanical Demolition Roof Plan - Area 'E'

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

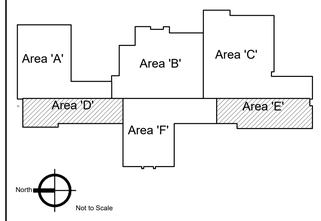
KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. NO WORK TO EXISTING UNIT REMAIN AS IS.
2. NOT USED.
3. DISCONNECT EXISTING GAS LINE TO BE REUSED IN NEW WORK. REMOVE EXISTING UNIT AND EXISTING CURB UNDER BID ALT. #2
4. DISCONNECT EXISTNG GAS LINE AND CAP. REMOVE EXISTING UNIT. ROOF PENETRATION SHALL NOT BE REUSED. CAP CURB WEATHER TIGHT.

ADDENDUM-01 dated 5.11.23

Key Plan



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Revisions	Description	Date
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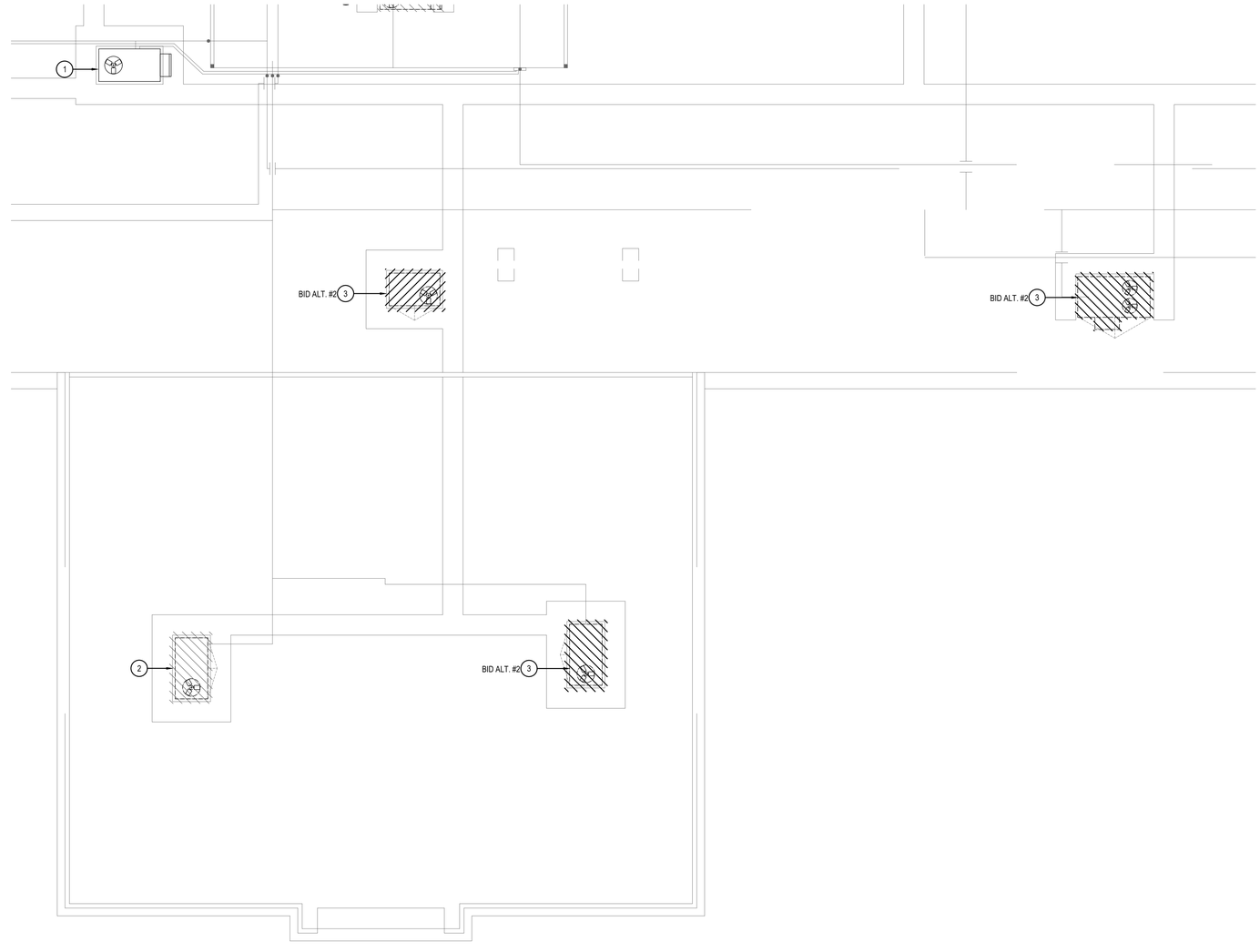
Agency Review

DRAWING NO.

M-3.4



N. 1 Mechanical Demolition Roof Plan - Area 'F'

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

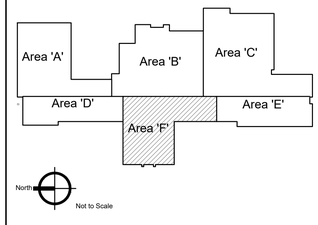
KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. NO DEMO WORK TO EXISTING UNIT.
2. DISCONNECT EXISTING GAS LINE TO BE REUSED IN NEW WORK, REMOVE EXISTING UNIT AND EXISTING CURB. ROOF PENETRATION SHALL BE REUSED. (1)
3. DISCONNECT EXISTING GAS LINE TO BE REUSED IN NEW WORK, REMOVE EXISTING UNIT AND EXISTING CURB UNDER BID ALT. #2 (1)

ADDENDUM-01 dated 5.11.23

Key Plan



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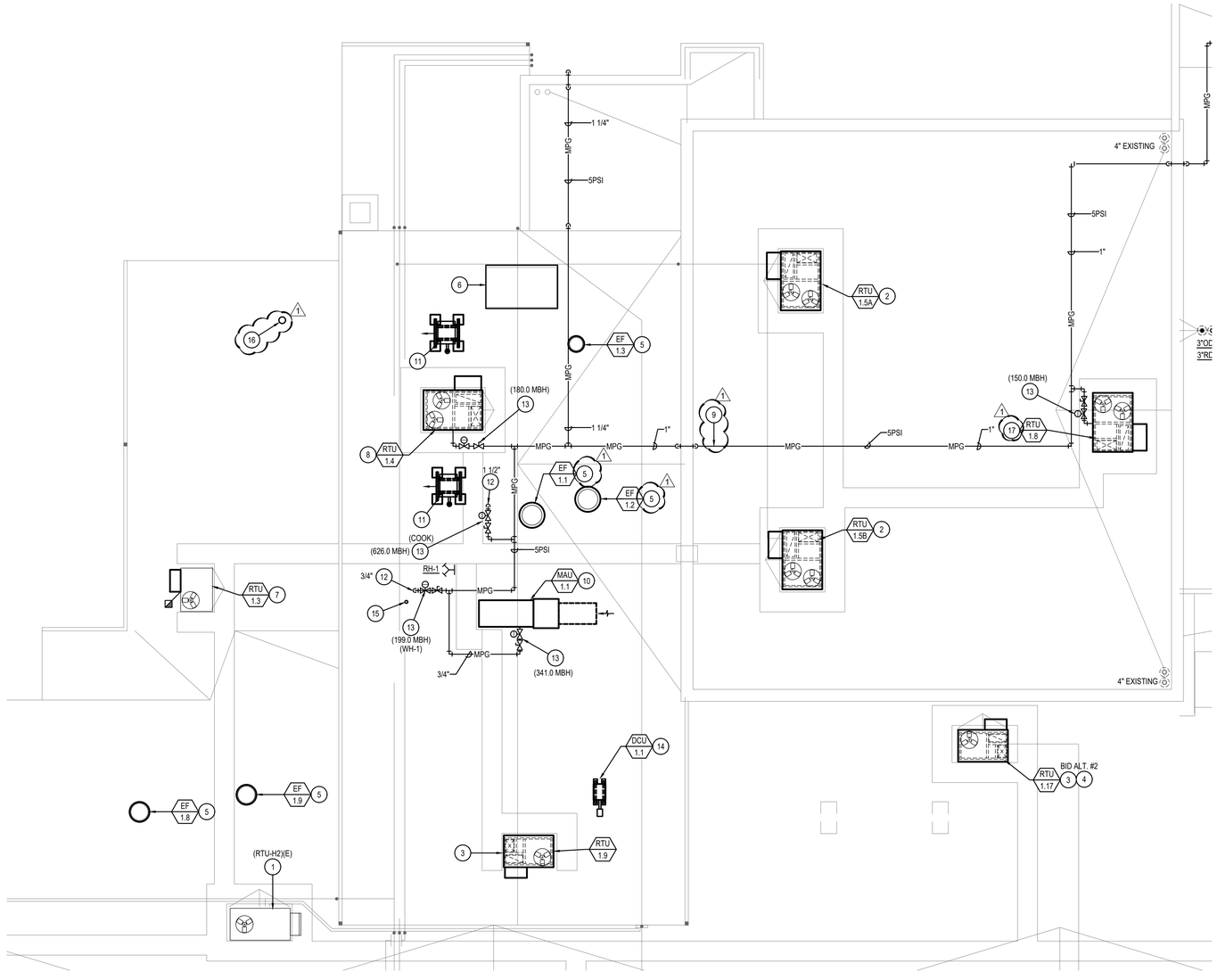
Agency Review

DRAWING NO.

M-3.5



N 1 Mechanical New Work Roof Plan - Area 'B'

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

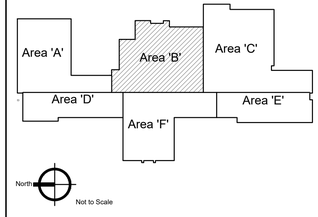
KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. NO WORK TO EXISTING UNIT REMAIN AS IS.
2. PROVIDE NEW ISO ROOF CURB, ROOF PENETRATION SHALL BE REUSED. PATCH ROOF TO MATCH EXISTING CONDITIONS. SET NEW RTU ON ISO CURB, SEE ISO CURB DETAIL. USE EXISTING GAS LINE AND VALVE (S), CONNECT TO NEW UNIT.
3. PROVIDE NEW ROOF CURB, ROOF PENETRATION SHALL BE REUSED. PATCH ROOF TO MATCH EXISTING CONDITIONS. SET NEW RTU ON CURB, SEE CURB DETAIL. USE EXISTING GAS LINE AND VALVE (S), CONNECT TO NEW UNIT.
4. WORK TO BE DONE UNDER BID ALT. #2.
5. PROVIDE NEW CURB AND EXHAUST FAN. SET EXHAUST FAN ON CURB. SEE EXHAUST FAN DETAIL.
6. CAP UNUSED EXISTING CURB WEATHER TIGHT.
7. EXISTING RTU SHALL REMAIN. PROVIDE NEW ECONOMIZER AND POWER EXHAUST. SEE RTU SCHEDULE FOR FURTHER INFORMATION.
8. PROVIDE NEW ISO ROOF CURB AND SET RTU ON ISO CURB. SEE ISO CURB DETAIL.
9. SET GAS PIPING ON PIPE STANDS, SEE DETAIL. 1
10. MOUNT MAKE UP AIR UNIT ON ROOF.
11. HVAC CONTRACTOR SHALL PROVIDE MIRRO STAND FOR KITCHEN WALK IN COOLER AND FREEZER. PROVIDED BY OTHERS. COORDINATE SIZE AND WEIGHT WITH COOLER/FREEZER SUPPLIER, SEE DETAIL.
12. ROUTE GAS LINE DOWN THROUGH ROOF, SEAL PENETRATION WEATHER TIGHT.
13. PROVIDE GAS PRESSURE REGULATOR, REDUCE PRESSURE FROM 5 PSI DOWN TO 7"WC, PROVIDE SHUT OFF VALVE. SEE DETAIL.
14. PROVIDE EQUIPMENT STAND FOR CONDENSING UNIT, SEE DETAIL. ROUTE REFRIGERATION LINES DOWN THROUGH ROOF IN PIPE GOOSENECK, SEE DETAIL.
15. PROVIDE CONCENTRIC FLUE FOR WATER HEATER, ROUTE UP THROUGH ROOF.
16. ROUTE 8"Ø EXHAUST DUCT UP THROUGH ROOF, TERMINATE WITH ROOF CURB AND ALUMINUM CAP. 1
17. SET NEW UNIT ON STANDARD CURB, SEE STANDARD CURB DETAIL.

ADDENDUM-01 dated 5.11.23

Key Plan



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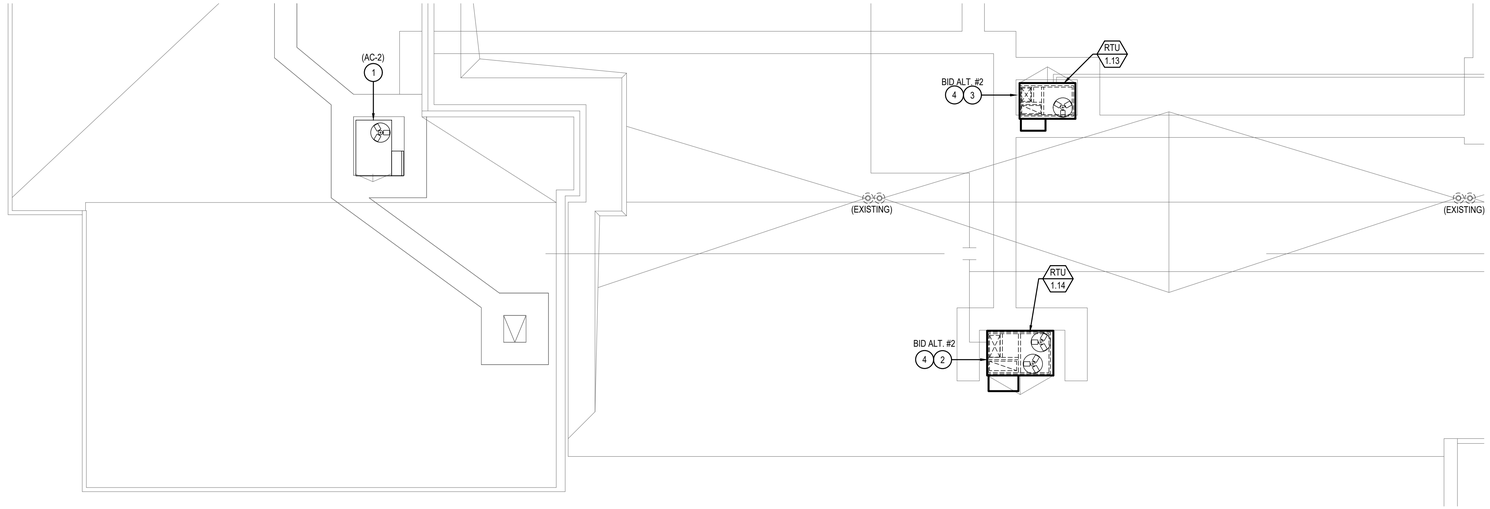
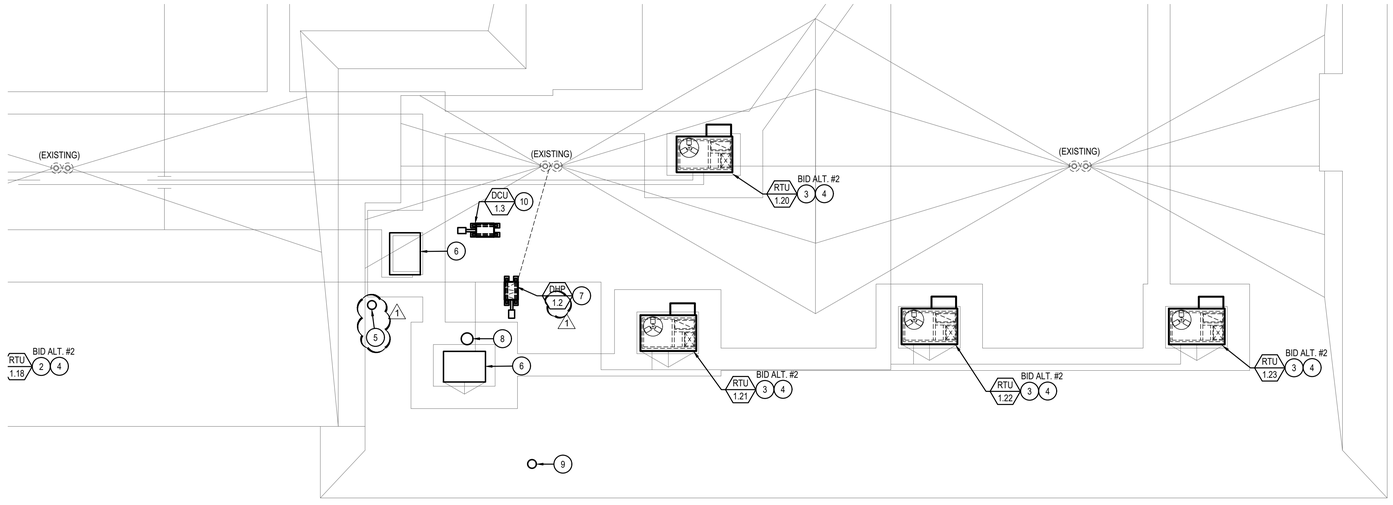
DRAWING NO.
M-4.2



N. 1 Mechanical New Work Roof Plan - Area 'D'

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



N. 2 Mechanical New Work Roof Plan - Area 'E'

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

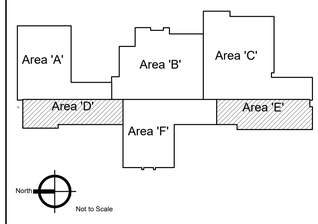
KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. NO WORK TO EXISTING UNIT REMAIN AS IS.
2. PROVIDE NEW ISO ROOF CURB, ROOF PENETRATION SHALL BE REUSED. PATCH ROOF TO MATCH EXISTING CONDITIONS. SET NEW RTU ON ISO CURB, SEE ISO CURB DETAIL. USE EXISTING GAS LINE AND VALVE (S), CONNECT TO NEW UNIT.
3. PROVIDE NEW ROOF CURB, ROOF PENETRATION SHALL BE REUSED. PATCH ROOF TO MATCH EXISTING CONDITIONS. SET NEW RTU ON CURB, SEE CURB DETAIL. USE EXISTING GAS LINE AND VALVE (S), CONNECT TO NEW UNIT.
4. WORK TO BE DONE UNDER BID ALT. #2.
5. PROVIDE CURB AND AND TERMINATE 8"Ø EXHAUST DUCT WITH ALUMINUM CAP.
6. CAP UNUSED EXISTING CURB WEATHER TIGHT.
7. SET HEAT PUMP UNIT ON EQUIPMENT PLATFORM. PROVIDE HEAT TAPE UNDER UNIT AND EXTEND TO NEAREST ROOF DRAIN. COORDINATE WITH ELECTRICAL CONTRACTOR.
8. 6"Ø FRESH AIR INTAKE FOR ERU, TERMINATE WITH CAP AND CURB.
9. 6"Ø EXHAUST FOR ERU, TERMINATE WITH CAP AND CURB. MAINTAIN A MINIMUM DISTANCE OF 10'-0"
10. PROVIDE EQUIPMENT STAND FOR CONDENSING UNIT, SEE DETAIL. ROUTE REFRIGERATION LINES DOWN THROUGH ROOF IN PIPE GOOSENECK, SEE DETAIL.

ADDENDUM-01 dated 5.11.23

Key Plan



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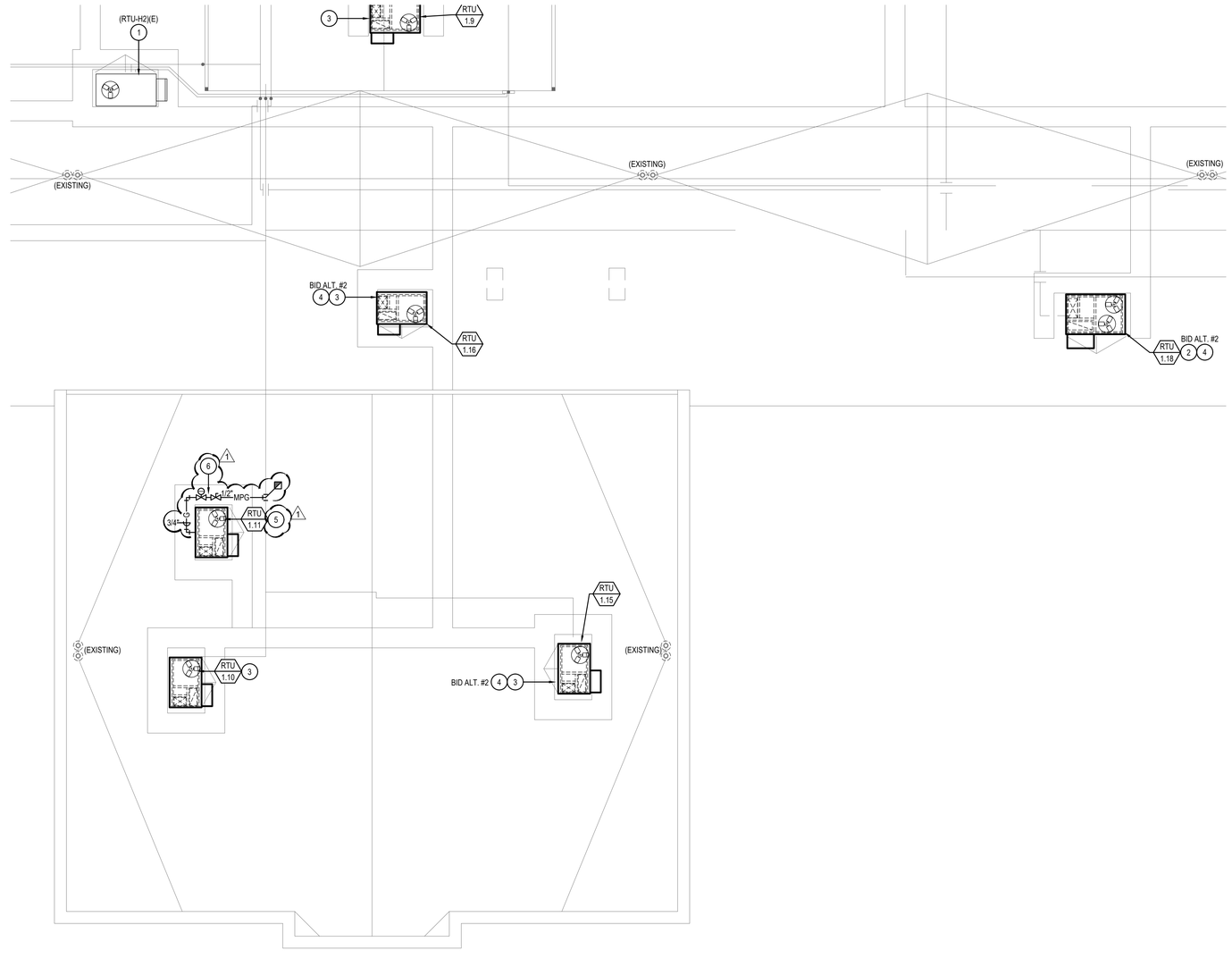
DRAWING NO.

M-4.4



N. 1 Mechanical New Work Roof Plan - Area 'F'

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

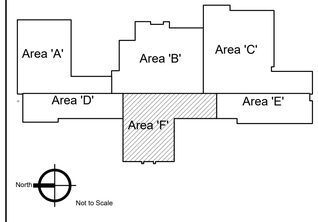
KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. EXISTING RTU TO REMAIN, RE-BALANCE OSA TO 250 CFM.
2. PROVIDE NEW ISO ROOF CURB, ROOF PENETRATION SHALL BE REUSED. PATCH ROOF TO MATCH EXISTING CONDITIONS. SET NEW RTU ON ISO CURB, SEE ISO CURB DETAIL. USE EXISTING GAS LINE AND VALVE (S), CONNECT TO NEW UNIT.
3. PROVIDE NEW ROOF CURB, ROOF PENETRATION SHALL BE REUSED. PATCH ROOF TO MATCH EXISTING CONDITIONS. SET NEW RTU ON CURB, SEE CURB DETAIL. USE EXISTING GAS LINE AND VALVE (S), CONNECT TO NEW UNIT.
4. WORK TO BE DONE UNDER BID ALT. #2.
5. PROVIDE NEW ROOF CURB, SET NEW RTU ON CURB, SEE CURB DETAIL. (1)
6. PROVIDE GAS PRESSURE REGULATOR, REDUCE PRESSURE FROM 5 PSI DOWN TO 7"WC, PROVIDE SHUT OFF VALVE. CONNECT TO EXISTING MPG LINE. SEE DETAIL.

ADDENDUM-01 dated 5.11.23

Key Plan



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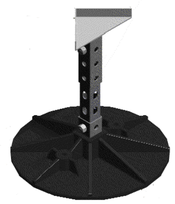
LKV PROJECT #: -
REVISIONS:

DRAWN BY: JM/CD
CHECKED BY: BC

Agency Review

DRAWING NO.

M-4.5

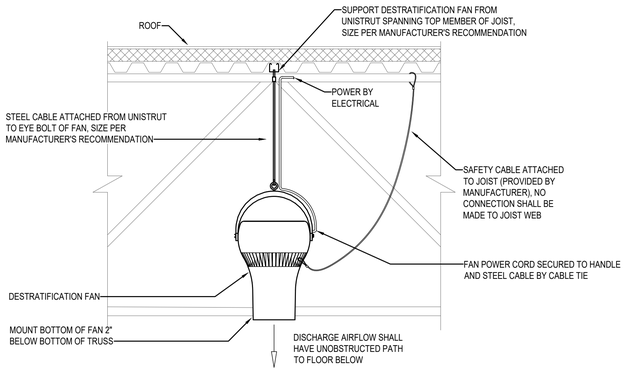


ADVANCED SUPPORT PRODUCTS MODEL SS1000EC OR EQUAL.

REPLACE MANUFACTURES BASE/LEGS WITH FLOATING EQUIPMENT SUPPORT.
PROVIDE SUPPORT AT EACH CORNER OF POWER EXHAUST.

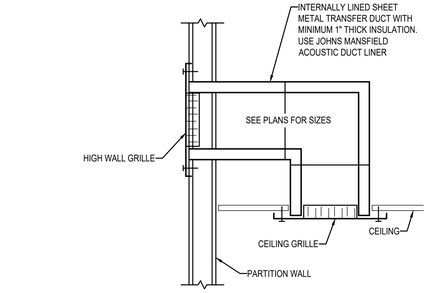
1 POWER EXHAUST SUPPORT DETAIL

SCALE: NOT TO SCALE

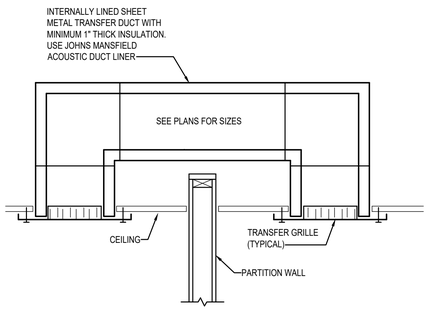


2 DESTRATIFICATION FAN DETAIL

NOT TO SCALE



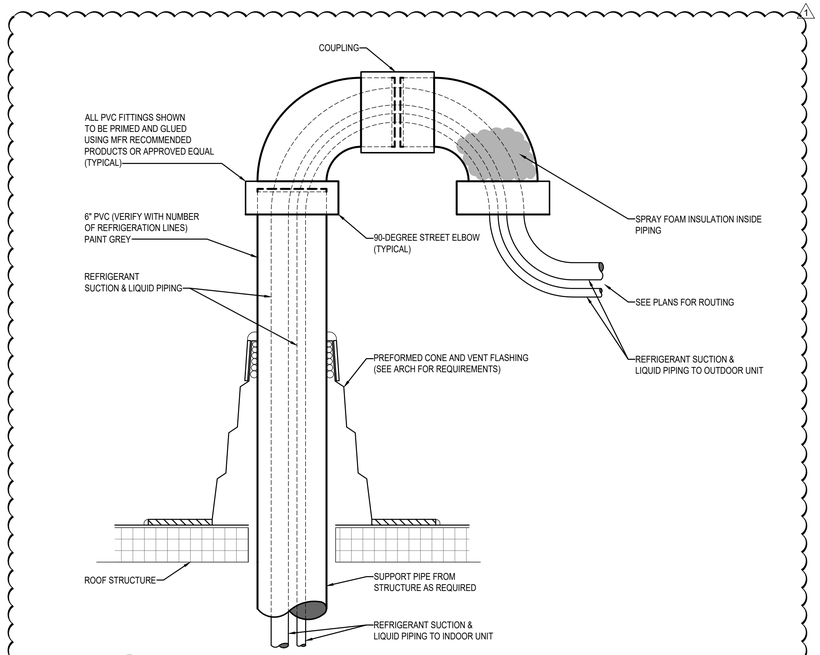
OPTION 1



OPTION 2

3 TRANSFER DUCT DETAIL

NOT TO SCALE



3 TYPICAL PIPING THRU ROOF DETAIL

NOT TO SCALE

ADDENDUM-01 dated 5.11.23

LKV ARCHITECTS
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MUSGROVE ENGINEERING, P.A.
234 S. Whisperwood Way
Boise, Idaho 83709
208.384.0585
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OVER 40 YEARS OF EXCELLENCE

Project No. 22-104

PROFESSIONAL ENGINEER LICENSED 16683 5/11/2023 STATE OF IDAHO CHRISTOPHER DYKE

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: JM/CD
CHECKED BY: BC

Agency Review

DRAWING NO.
M-5.2

PACKAGED AIR CONDITIONING SCHEDULE

SYMBOL	AREA SERVED	NOM. TONS	SUPPLY FAN				COOLING CAPACITY 95°OSA, 80°EDB, 62°EWB			GAS HEATING CAPACITY		RTU ELECTRICAL			ELECTRICAL POWER EXHAUST				OSA CFM	MIN. SEER / EER	OPER. WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
			CFM	ESP	BRAKE BHP	DRIVE	STAGES	TOTAL MBH	SENS. MBH	INPUT MBH	OUTPUT MBH	MCA	MOCP	V/Ø	HP	MCA	MOCP	V/Ø					
RTU-1.1	CLASSROOM 120	4	1600	.50	.72	DIRECT ECM	1	42.8	41.3	120.0 / 150.0	96.0 / 120.0	24.0	30	208/3	0.5	2.9	5.2	208/3	520	14.0	1100	CARRIER 48FC-05 STANDARD EFFICIENCY	1 , 2 , 3 , 7 , 8
RTU-1.2	CLASSES 132, 134 & 136	6	2400	.50	1.31	DIRECT ECM	2	66.9	66.5	120.0 / 150.0	96.0 / 120.0	33.0	50	208/3	0.5	2.9	5.2	208/3	1110	11.2 EER	1350	CARRIER 48FC-07 STANDARD EFFICIENCY	1 , 2 , 3 , 7 , 8
RTU-1.3 EXISTING	FACULTY	4	1600	.50	.72	DIRECT ECM	1	42.8	41.3	115.0	93.0	24.0	30	208/3	0.5	2.9	5.2	208/3	460	14.0	1100	EXISTING CARRIER MODEL 48KCEA05A2A5A0A0A0	1 , 8 , 9 , 10
RTU-1.4	KITCHEN	7.5	3000	.50	2.4	DIRECT ECM	2	81.7	78.4	120.0 / 180.0	98.0 / 148.0	39.0	50	208/3	N/A	N/A	N/A	208/3	1125	11.2 EER	1900	CARRIER 48FC-08 STANDARD EFFICIENCY	1 , 2 , 4 , 7 , 8
RTU-1.5A	CAFETERIA	10	4000	.50	2.4	DIRECT ECM	2	117.0	113.4	180.0/ 224.0	146.0/ 181.0	45.0	60	208/3	2	8.0	14.4	208/3	1810	11.0 EER	2000	CARRIER 48FC-12 STANDARD EFFICIENCY	1 , 2 , 5 , 7 , 8
RTU-1.5B	CAFETERIA	10	4000	.50	2.4	DIRECT ECM	2	117.0	113.4	180.0/ 224.0	146.0/ 181.0	45.0	60	208/3	2	8.0	14.4	208/3	1810	11.0 EER	2000	CARRIER 48FC-12 STANDARD EFFICIENCY	1 , 2 , 5 , 7 , 8
RTU-1.6	STAGE	6	2400	.50	1.31	DIRECT ECM	2	66.9	66.5	120.0 / 150.0	96.0 / 120.0	33.0	50	208/3	0.5	2.9	5.2	208/3	910	11.2 EER	1350	CARRIER 48FC-07 STANDARD EFFICIENCY	1 , 2 , 3 , 7 , 8
RTU-1.7A	GYMNASIUM	15	6000	.50	3	DIRECT ECM	2	166.7	163.8	280.0 / 350.0	224.0 / 284.0	67.0	80	208/3	3	11.5	20.7	208/3	2115	10.8 EER	3000	CARRIER 48FC-16 STANDARD EFFICIENCY HORIZONTAL DISCHARGE	1 , 2 , 6 , 7 , 8
RTU-1.7B	GYMNASIUM	15	6000	.50	3	DIRECT ECM	2	166.7	163.8	280.0 / 350.0	224.0 / 284.0	67.0	80	208/3	3	11.5	20.7	208/3	2115	10.8 EER	3000	CARRIER 48FC-16 STANDARD EFFICIENCY HORIZONTAL DISCHARGE	1 , 2 , 6 , 7 , 8
RTU-1.8	GYM FOYER	6	2400	.50	1.31	DIRECT ECM	2	66.9	66.5	120.0 / 150.0	96.0 / 120.0	33.0	50	208/3	0.5	2.9	5.2	208/3	320	11.2 EER	1350	CARRIER 48FC-07 STANDARD EFFICIENCY	1 , 2 , 3 , 7 , 8
RTU-1.9	MULTIPURPOSE CLASS	4	1600	.50	.72	DIRECT ECM	1	42.8	41.3	120.0 / 150.0	96.0 / 120.0	24.0	30	208/3	0.5	2.9	5.2	208/3	520	14.0	1100	CARRIER 48FC-05 STANDARD EFFICIENCY	1 , 2 , 3 , 7 , 8
RTU-1.10	ADMIN	3	1200	.50	.44	DIRECT ECM	1	30.9	29.9	82.0 / 110.0	65.0 / 93.0	19.0	25	208/3	0.5	2.9	5.2	208/3	130	14.0	1100	CARRIER 48FC-04 STANDARD EFFICIENCY	1 , 2 , 3 , 7 , 8
RTU-1.11	COMPUTER LAB	5	2000	.50	1.06	DIRECT ECM	1	53.7	53.7	120.0 / 150.0	96.0 / 120.0	29.0	40	208/3	0.5	2.9	5.2	208/3	565	14.0	1100	CARRIER 48FC-06 STANDARD EFFICIENCY	1 , 2 , 3 , 7 , 8

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: DAIKIN, TRANE, LENNOX, AND YORK.
2. PROVIDE UNIT WITH TERMINAL STRIP FOR DDC CONTROL. SEE CONTROL DRAWINGS FOR SEQUENCE OF OPERATION.
3. PROVIDE UNIT WITH MANUFACTURER'S ROOF CURB (SEE DETAIL FOR SEISMIC RESTRAINTS), HAIL GUARDS, LOW AMBIENT CONTROLS (TO 0°F), FLUE EXTENDER, HIGH ALTITUDE KIT, THRU-THE-BOTTOM OF CURB ELECTRICAL CONNECTION KIT, HINGED ACCESS PANELS, MICROMETL GEAR DRIVEN INTEGRATED DRY BULB ECONOMIZER WITH BELIMO LOGIC ACTUATORS, AND MICROMETL CENTRIFUGAL POWER EXHAUST (100% RELIEF) WITH WIRING HARNESS. ELECTRICAL CONTRACTOR TO PROVIDE THE POWER CONNECTION BETWEEN RTU AND THE POWER EXHAUST AND PROVIDE FUSED DISCONNECT AS REQUIRED.
4. PROVIDE UNIT WITH MICROMETL WELDED SPRING ISOLATION CURB (SEE DETAIL FOR SEISMIC RESTRAINTS), MANUFACTURER HAIL GUARDS, LOW AMBIENT CONTROLS (TO 0°F), FLUE EXTENDER, HIGH ALTITUDE KIT, THRU-THE-BOTTOM OF CURB ELECTRICAL CONNECTION KIT, HINGED ACCESS PANELS, MICROMETL GEAR DRIVEN INTEGRATED DRY BULB ECONOMIZER WITH BELIMO LOGIC ACTUATORS, AND MICROMETL CENTRIFUGAL POWER EXHAUST (100% RELIEF) WITH WIRING HARNESS. ELECTRICAL CONTRACTOR TO PROVIDE THE POWER CONNECTION BETWEEN RTU AND THE POWER EXHAUST AND PROVIDE FUSED DISCONNECT AS REQUIRED.
5. PROVIDE UNIT WITH MICROMETL WELDED SPRING ISOLATION CURB (SEE DETAIL FOR SEISMIC RESTRAINTS), MANUFACTURERS FLUE EXTENDER, HAIL GUARDS, HIGH ALTITUDE KIT, HINGED ACCESS PANELS, MICROMETL GEAR DRIVEN INTEGRATED DRY BULB ECONOMIZER WITH BELIMO LOGIC ACTUATORS AND AUX END SWITCH, AND MICROMETL MODULATING POWER EXHAUST WITH VARIABLE SPEED MOTOR CONTROLLER (100% RELIEF) WIRING HARNESS, PRESSURE SENSOR SET TO .02 POSITIVE PRESSURE. ELECTRICAL CONTRACTOR TO PROVIDE THE POWER CONNECTION BETWEEN RTU AND THE POWER EXHAUST AND PROVIDE FUSED DISCONNECT AS REQUIRED.
6. PROVIDE UNIT WITH MICROMETL WELDED SPRING ISOLATION CURB (SEE DETAIL FOR SEISMIC RESTRAINTS), MANUFACTURERS FLUE EXTENDER, HAIL GUARDS, HIGH ALTITUDE KIT, HINGED ACCESS PANELS. PROVIDE WITH MICROMETL GEAR DRIVEN INTEGRATED DRY BULB ECONOMIZER WITH BELIMO LOGIC ACTUATORS AND AUX END SWITCH, AND REMOTE DUCT MOUNTED MICROMETL MODULATING POWER EXHAUST WITH VARIABLE SPEED MOTOR CONTROLLER (100% RELIEF) WIRING HARNESS, PRESSURE SENSOR SET TO .02 POSITIVE PRESSURE. ELECTRICAL CONTRACTOR TO PROVIDE THE POWER CONNECTION BETWEEN RTU AND THE POWER EXHAUST AND PROVIDE FUSED DISCONNECT AS REQUIRED.
7. MAXIMUM "A-WEIGHTED" SUPPLY AIR SOUND RATINGS FOR UNITS 2-18 TONS = 95 DB @ 125 HZ, 90 DB @ 250 HZ, PER ARI STANDARDS 270 & 370.
8. PROVIDE 2" PLEATED MERV 8 FILTER AND FILTER RACK WITH 4 EXTRA SETS PER UNIT.
9. PROVIDE EXISTING ROOFTOP UNIT WITH MICROMETL GEAR DRIVEN INTEGRATED DRY BULB ECONOMIZER WITH BELIMO LOGIC ACTUATORS AND MICROMETL CENTRIFUGAL POWER EXHAUST (100% RELIEF) WITH WIRING HARNESS. ELECTRICAL CONTRACTOR TO PROVIDE THE POWER CONNECTION BETWEEN RTU AND THE POWER EXHAUST AND PROVIDE FUSED DISCONNECT AS REQUIRED. CONTRACTOR SHALL ALSO COMB OUT BENT FINS, CHANGE FILTER WITH A 2" MERV 8 AND INSPECT UNIT. CONTRACTOR TO REPORT ANY DEFICIENCIES.
10. SEE CONTROL DRAWINGS FOR REVISED SEQUENCE OF OPERATION.

DUCTLESS SPLIT HIGH WALL COOLING UNIT SCHEDULE

SYMBOL	AREA SERVED	NOMINAL TONS	UNIT TYPE	SUPPLY FAN		COOLING CAPACITY AT 95°F OSA		ELECTRICAL OUTDOOR UNIT			MINIMUM SEER	INDOOR / OUTDOOR WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
				CFM	V/Ø	TOTAL (MBH)	SENSIBLE (MBH)	MCA	MOCP	V/Ø				
DFC-1.1 DCU-1.1	I.T. / SERVER 150	1.5	HIGH WALL COOLING ONLY	550	THRU O/U	18.0	13.0	15	20	208/1	19.0	25 / 75	CARRIER FAN COIL MODEL 40MHH18 CARRIER CONDENSING UNIT MODEL 38MHRBC18	1 , 2 , 3 , 4 , 5 , 6 , 7
DFC-1.3 DCU-1.3	DATA RACK - STORAGE	1.5	HIGH WALL COOLING ONLY	550	THRU O/U	18.0	13.0	15	20	208/1	19.0	25 / 75	CARRIER FAN COIL MODEL 40MHH18 CARRIER CONDENSING UNIT MODEL 38MHRBC18	1 , 2 , 3 , 4 , 5 , 6 , 7

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: LENNOX, MITSUBISHI, PANASONIC, SAMSUNG, LG, DAIKIN, OR APPROVED EQUAL BY ENGINEER.
2. CONTROL UNIT WITH MANUFACTURER'S HARD-WIRED WALL MOUNTED 7 DAY PROGRAMMABLE THERMOSTAT.
3. PROVIDE MANUFACTURERS CRANKCASE HEATER, LOW AMBIENT CONTROLS & (TO 0°F) WIND BAFFLES, REFRIGERATION LINE SET SIZED BY MANUFACTURER, AND TAMPER PROOF PORT CAPS.
4. PROVIDE WITH BIG FOOT MECHANICAL ROOF SUPPORT WITH ADJUSTABLE SUPPORT LEGS. SUPPORT SHALL EXTEND A MINIMUM OF 6" BEYOND EQUIPMENT IN EACH DIRECTION. BOLT EQUIPMENT TO MECHANICAL SUPPORT.
5. PROVIDE WITH MANUFACTURER'S CONDENSATE PUMP, LITTLE GIANT MINI CONDENSATE PUMP, CONCEAL PUMP BEHIND UNIT WITHIN MOUNTING BRACKET ASSEMBLY. PUMP SHALL BE POWERED BY FAN COIL.
6. ELECTRICAL TO PROVIDE DISCONNECT.
7. SEE CONTROL DRAWINGS FOR SEQUENCE OF OPERATION.

PACKAGED AIR CONDITIONING SCHEDULE BID ALT#2

SYMBOL	AREA SERVED	NOM. TONS	SUPPLY FAN				COOLING CAPACITY 95°OSA, 80°EDB, 62°EWB			GAS HEATING CAPACITY		RTU ELECTRICAL			ELECTRICAL POWER EXHAUST				OSA CFM	MIN. SEER / EER	OPER. WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
			CFM	ESP	BRAKE BHP	DRIVE	STAGES	TOTAL MBH	SENS. MBH	INPUT MBH	OUTPUT MBH	MCA	MOCP	V/Ø	HP	MCA	MOCP	V/Ø					
RTU-1.13	HALLWAYS	3	1200	.50	.44	DIRECT ECM	1	30.9	29.9	82.0 / 110.0	65.0 / 93.0	19.0	25	208/3	0.5	2.9	5.2	208/3	280	14.0	1100	CARRIER 48FC-04 STANDARD EFFICIENCY	1 , 2 , 3 , 5 , 6
RTU-1.14	CLASS ROOMS	10	4000	.50	2.4	DIRECT ECM	2	117.0	113.4	180.0/ 224.0	146.0/ 181.0	45.0	60	208/3	2	8.0	14.4	208/3	1110	11.0 EER	2000	CARRIER 48FC-12 STANDARD EFFICIENCY	1 , 2 , 4 , 5 , 6
RTU-1.15	LIBRARY (1)	6	2400	.50	1.31	DIRECT ECM	2	66.9	66.5	120.0 / 150.0	96.0 / 120.0	33.0	50	208/3	0.5	2.9	5.2	208/3	740	11.2 EER	1350	CARRIER 48FC-07 STANDARD EFFICIENCY	1 , 2 , 3 , 5 , 6
RTU-1.16	CLASS ROOMS	6	2400	.50	1.31	DIRECT ECM	2	66.9	66.5	120.0 / 150.0	96.0 / 120.0	33.0	50	208/3	0.5	2.9	5.2	208/3	740	11.2 EER	1350	CARRIER 48FC-07 STANDARD EFFICIENCY	1 , 2 , 3 , 5 , 6
RTU-1.17	CLASS ROOMS	6	2400	.50	1.31	DIRECT ECM	2	66.9	66.5	120.0 / 150.0	96.0 / 120.0	33.0	50	208/3	0.5	2.9	5.2	208/3	740	11.2 EER	1350	CARRIER 48FC-07 STANDARD EFFICIENCY	1 , 2 , 3 , 5 , 6
RTU-1.18	CLASS ROOMS	10	4000	.50	2.4	DIRECT ECM	2	117.0	113.4	180.0/ 224.0	146.0/ 181.0	45.0	60	208/3	2	8.0	14.4	208/3	1110	11.0 EER	2000	CARRIER 48FC-12 STANDARD EFFICIENCY	1 , 2 , 4 , 5 , 6
RTU-1.19	CLASS ROOMS	6	2400	.50	1.31	DIRECT ECM	2	66.9	66.5	120.0 / 150.0	96.0 / 120.0	33.0	50	208/3	0.5	2.9	5.2	208/3	740	11.2 EER	1350	CARRIER 48FC-07 STANDARD EFFICIENCY	1 , 2 , 3 , 5 , 6
RTU-1.20	HALLWAY	4	1600	.50	.72	DIRECT ECM	1	42.8	41.3	120.0 / 150.0	96.0 / 120.0	24.0	30	208/3	0.5	2.9	5.2	208/3	275	14.0	1100	CARRIER 48FC-05 STANDARD EFFICIENCY	1 , 2 , 3 , 5 , 6
RTU-1.21	CLASS ROOM	3	1200	.50	.44	DIRECT ECM	1	30.9	29.9	82.0 / 110.0	65.0 / 93.0	19.0	25	208/3	0.5	2.9	5.2	208/3	400	14.0	1100	CARRIER 48FC-04 STANDARD EFFICIENCY	1 , 2 , 3 , 5 , 6
RTU-1.22	CLASS ROOM	3	1200	.50	.44	DIRECT ECM	1	30.9	29.9	82.0 / 110.0	65.0 / 93.0	19.0	25	208/3	0.5	2.9	5.2	208/3	400	14.0	1100	CARRIER 48FC-04 STANDARD EFFICIENCY	1 , 2 , 3 , 5 , 6
RTU-1.23	CLASS ROOM	3	1200	.50	.44	DIRECT ECM	1	30.9	29.9	82.0 / 110.0	65.0 / 93.0	19.0	25	208/3	0.5	2.9	5.2	208/3	400	14.0	1100	CARRIER 48FC-04 STANDARD EFFICIENCY	1 , 2 , 3 , 5 , 6
RTU-1.24	CLASS ROOM	3	1200	.50	.44	DIRECT ECM	1	30.9	29.9	82.0 / 110.0	65.0 / 93.0	19.0	25	208/3	0.5	2.9	5.2	208/3	400	14.0	1100	CARRIER 48FC-04 STANDARD EFFICIENCY	1 , 2 , 3 , 5 , 6
RTU-1.25	CLASS ROOM	3	1200	.50	.44	DIRECT ECM	1	30.9	29.9	82.0 / 110.0	65.0 / 93.0	19.0	25	208/3	0.5	2.9	5.2	208/3	400	14.0	1100	CARRIER 48FC-04 STANDARD EFFICIENCY	1 , 2 , 3 , 5 , 6

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: DAIKIN, TRANE, LENNOX, AND YORK.
2. PROVIDE UNIT WITH TERMINAL STRIP FOR DDC CONTROL. SEE CONTROL DRAWINGS FOR SEQUENCE OF OPERATION.
3. PROVIDE UNIT WITH MANUFACTURER'S ROOF CURB (SEE DETAIL FOR SEISMIC RESTRAINTS), HAIL GUARDS, LOW AMBIENT CONTROLS (TO 0°F), FLUE EXTENDER, HIGH ALTITUDE KIT, THRU-THE-BOTTOM OF CURB ELECTRICAL CONNECTION KIT, HINGED ACCESS PANELS, MICROMETL GEAR DRIVEN INTEGRATED DRY BULB ECONOMIZER WITH BELIMO LOGIC ACTUATORS, AND MICROMETL CENTRIFUGAL POWER EXHAUST (100% RELIEF) WITH WIRING HARNESS. ELECTRICAL CONTRACTOR TO PROVIDE THE POWER CONNECTION BETWEEN RTU AND THE POWER EXHAUST AND PROVIDE FUSED DISCONNECT AS REQUIRED.
4. PROVIDE UNIT WITH MICROMETL WELDED SPRING ISOLATION CURB (SEE DETAIL FOR SEISMIC RESTRAINTS), MANUFACTURER HAIL GUARDS, LOW AMBIENT CONTROLS (TO 0°F), FLUE EXTENDER, HIGH ALTITUDE KIT, THRU-THE-BOTTOM OF CURB ELECTRICAL CONNECTION KIT, HINGED ACCESS PANELS, MICROMETL GEAR DRIVEN INTEGRATED DRY BULB ECONOMIZER WITH BELIMO LOGIC ACTUATORS, AND MICROMETL CENTRIFUGAL POWER EXHAUST (100% RELIEF) WITH WIRING HARNESS. ELECTRICAL CONTRACTOR TO PROVIDE THE POWER CONNECTION BETWEEN RTU AND THE POWER EXHAUST AND PROVIDE FUSED DISCONNECT AS REQUIRED.
5. MAXIMUM "A-WEIGHTED" SUPPLY AIR SOUND RATINGS FOR UNITS 2-18 TONS = 95 DB @ 125 HZ, 90 DB @ 250 HZ, PER ARI STANDARDS 270 & 370.
6. PROVIDE 2" PLEATED MERV 8 FILTER AND FILTER RACK WITH 4 EXTRA SETS PER UNIT.

DUCTLESS SPLIT CEILING CASSETTE COOLING & HEATING UNIT SCHEDULE

SYMBOL	AREA SERVED	NOMINAL TONS	UNIT TYPE	SUPPLY FAN			COOLING REQUIRED AT 95°F OSA, 80°F EDB, 62°F EWB		HEATING REQUIRED AT 32°F OSA, 69°F EDB.	ELECTRICAL OUTDOOR UNIT			MINIMUM SEER / HSPF	INDOOR/ OUTDOOR OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
				CFM	HP	V/Ø	TOTAL MBH	SENSIBLE MBH	TOTAL MBH	MCA	MOCP	V/Ø				
DFC-1.2 DHP-1.2	PREP ROOM 179	1.5	CEILING CASSETTE COOL/HEAT UNIT	290-420	.061	THROUGH OUTDOOR UNIT	19.0	12.5	22.5	18	25	208/1	20.0/10.5	45/120	CARRIER INDOOR UNIT MODEL 40MBCQ18 CARRIER OUTDOOR UNIT MODEL 38MBRQ18	1 , 2 , 3 , 4 , 5 , 6 , 7

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: LENNOX, MITSUBISHI, PANASONIC, SAMSUNG, LG, DAIKIN , OR APPROVED EQUAL BY ENGINEER.
2. CONTROL UNIT WITH MANUFACTURER'S HARD-WIRED WALL MOUNTED 7 DAY PROGRAMMABLE THERMOSTAT WITH AUTO CHANGE OVER.
3. PROVIDE MANUFACTURERS CRANKCASE HEATER, LOW AMBIENT CONTROLS & (TO -13°F COOLING TO -22°F HEATING) WIND BAFFLES, REFRIGERATION LINE SET SIZED BY MANUFACTURER AND TAMPER PROOF PORT CAPS.
4. PROVIDE WITH MIRO IND. OR BIG FOOT HEAVY DUTY MECHANICAL ROOF SUPPORT WITH ADJUSTABLE SUPPORT LEGS. SUPPORT SHALL EXTEND A MINIMUM OF 6" BEYOND EQUIPMENT IN EACH DIRECTION. BOLT EQUIPMENT TO MECHANICAL SUPPORT.
5. PROVIDE WITH MANUFACTURER'S CONDENSATE PUMP, OR LITTLE GIANT MINI CONDENSATE PUMP, CONCEAL PUMP BEHIND UNIT WITHIN MOUNTING BRACKET ASSEMBLY. ELECTRICAL CIRCUIT FOR PUMP SHALL BE INTEGRATED TO FAN COIL.
6. ELECTRICAL TO PROVIDE DISCONNECT AND HEAT TRACE BENEATH UNIT AND TO ROOF DRAIN.
7. SEE CONTROL DRAWINGS FOR SEQUENCE OF OPERATION.

ENERGY RECOVERY UNIT SCHEDULE

SYMBOL	SUPPLY		EXHAUST		ELECTRICAL		WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
	CFM	ESP	CFM	ESP	WATTS	V/Ø			
ERV-1.1	65	.40	85	.40	100	120/1	45	PANASONIC FV-10VEC2	1 , 2 , 3

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: UPON PRIOR APPROVAL OF ENGINEER.
2. PROVIDE WITH EXHAUST ONLY FROST PREVENTION CONTROLS, HI/LOW SPEED, ADJUSTABLE SUPPLY AND EXHAUST FLOW DIALS, MERV 8 FILTERS IN EACH AIR STREAM, 6 YEAR WARRANTY, VIBRATION ISOLATORS ON EACH HANGING ROD, FLEXIBLE DUCT CONNECTIONS, HINGED ACCESS PANELS, AND FILTER ALARM. PROVIDE UNIT WITH UL APPROVAL LISTING.
3. ELECTRICAL TO PROVIDE DISCONNECT AND SPECIAL CONNECTION, UNIT IS EQUIPMENT WITH WALL PLUG.

ADDENDUM-01 dated 5.11.23

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OVER 40 YEARS OF EXCELLENCE

Project No. 22-104

PROFESSIONAL ENGINEER LICENSED 16683 5/11/2023 STATE OF IDAHO CHRISTOPHER DYKE

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: JM/CD
CHECKED BY: BC

Agency Review

DRAWING NO. M-6.0

ELECTRIC HEATER SCHEDULE

SYMBOL	AREA SERVED	UNIT TYPE	FAN			ELECTRICAL				MANUFACTURER AND MODEL	REMARKS
			CFM	RPM	HP	KW	STEPS	V/Ø	AMPS		
EH-1.1	RAMP 190	CEILING RECESS MOUNTED	300	1400	1/8	2	1	208/1	9.6	QMARK MODEL CDF SERIES WITH RECESSED ENCLOSURE	1 , 3
EH-1.2	VESTIBULE 182	CEILING RECESS MOUNTED	300	1400	1/8	2	1	208/1	9.6	QMARK MODEL CDF SERIES WITH RECESSED ENCLOSURE	1 , 3
EH-1.3	RISER	SURFACE MOUNTED	245	1400	1/8	2	1	208/1	9.6	MARKEL MODEL 3420 SERIES	1 , 2 , 3 , 4
EH-1.4	VESTIBULE 164	CEILING RECESS MOUNTED	300	1400	1/8	2	1	208/1	9.6	QMARK MODEL CDF SERIES WITH RECESSED ENCLOSURE	1 , 3
EH-1.5	HALL ENTRY	CEILING RECESS MOUNTED	300	1400	1/8	2	1	208/1	9.6	QMARK MODEL CDF SERIES WITH RECESSED ENCLOSURE	1 , 3
EH-1.6	VESTIBULE	CEILING SURFACE MOUNTED	300	1400	1/8	2	1	208/1	9.6	QMARK MODEL CDF SERIES WITH SURFACE ENCLOSURE	1 , 2 , 3
EH-1.7	VESTIBULE	CEILING RECESS MOUNTED	300	1400	1/8	2	1	208/1	9.6	QMARK MODEL CDF SERIES WITH RECESSED ENCLOSURE	1 , 3
EH-1.8	VESTIBULE	CEILING RECESS MOUNTED	300	1400	1/8	2	1	208/1	9.6	QMARK MODEL CDF SERIES WITH RECESSED ENCLOSURE	1 , 3
EH-1.9	VESTIBULE	CEILING RECESS MOUNTED	300	1400	1/8	2	1	208/1	9.6	QMARK MODEL CDF SERIES WITH RECESSED ENCLOSURE	1 , 3
EH-1.10	VESTIBULE	CEILING RECESS MOUNTED	300	1400	1/8	2	1	208/1	9.6	QMARK MODEL CDF SERIES WITH RECESSED ENCLOSURE	1 , 3

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: BRASCH, QMARK, MARKEL, INDEECO, OUELLET, AND CHROMALOX.
2. PROVIDE SURFACE MOUNTING KIT.
3. PROVIDE UNIT WITH AN INTEGRAL THERMOSTAT. THERMOSTAT SHALL BE COVERED WITH A TAMPER-PROOF ACCESS COVER.
4. MOUNT UNIT 12" ABOVE FINISHED FLOOR.

DESTRATIFICATION FAN SCHEDULE

SYMBOL	AREA SERVED	FAN		ELECTRICAL			WEIGHT LBS.	MAXIMUM dBA	MAXIMUM MOUNTING HEIGHT	MANUFACTURER AND MODEL	REMARKS
		CFM	RPM	V/Ø	WATTS	AMPS					
DSF-1.1	GYM	1128	2700	120/1	175	1.48	14	64	45'	AIRIUS MODEL AIR PEAR A-45-P2	1 , 2 , 3 , 4 , 5
DSF-1.2	GYM	1128	2700	120/1	175	1.48	14	64	45'	AIRIUS MODEL AIR PEAR A-45-P2	1 , 2 , 3 , 4 , 5

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: WITH PRIOR APPROVAL OF ENGINEER.
2. PROVIDE UNIT WITH PCS MOTOR, SEALED BEARINGS, 6' CORD, GUARD GRILLE, STATOR, 6' STEEL SAFETY CABLE AND HANGING BRACKET.
3. CONTROL UNIT WITH MANUFACTURES WALL MOUNTED (TRIAC-120-1.5 FOR PCS MOTOR) SPEED CONTROLLER, IN ADDITION TO THE SPEED CONTROLLER. CONTROL SCHEDULE OF USE BY DDC.
4. PROVIDE OFF WHITE COLOR.
5. FAN SHALL BE INTEGRATED TO THE FIRE CONTROL PANEL. INCLUDES A 10-30 VDC PILOT RELAY FOR SEAMLESS FIRE CONTROL PANEL INTEGRATION. THE PILOT RELAY CAN BE WIRED NORMALLY OPEN OR NORMALLY CLOSED IN THE FIELD.

EXHAUST FAN SCHEDULE

SYMBOL	AREA SERVED	UNIT TYPE	BLOWER				ELECTRICAL		MAXIMUM SONES	OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
			CFM	ESP	MAXIMUM RPM	DRIVE	HP/W	V/Ø				
EF-1.4	FACULTY RR	CEILING CABINET	100	.375	1075	DIRECT	46.5 W	115/1	2.5	15	COOK MODEL GC-148	1 , 2 , 4
EF-1.5	MECHANICAL ROOM	CEILING CABINET	75	.375	900	DIRECT	36.2 W	115/1	1.5	15	COOK MODEL GC-146	1 , 2 , 4
EF-1.6	BACK STAGE RR	ROOFTOP UPBLAST	250	.375	1550	DIRECT	1/8 HP	115/1	4.5	55	COOK MODEL ACRU-D-90R	1 , 3 , 4
EF-1.7	RESTROOMS 122/123	ROOFTOP UPBLAST	1000	.375	1725	BELT	1/6 HP	115/1	9.9	125	COOK MODEL ACRU-B-135R	1 , 3 , 4
EF-1.8	RESTROOM 139	ROOFTOP UPBLAST	700	.375	1725	BELT	1/6 HP	115/1	10.4	75	COOK MODEL ACRU-B-100R	1 , 3 , 4
EF-1.9	RESTROOM 141 & JAN 140	ROOFTOP UPBLAST	875	.375	1725	BELT	1/4 HP	115/1	12.6	75	COOK MODEL ACRU-B-100R	1 , 3 , 4
EF-1.10	RESTROOM 193	ROOFTOP UPBLAST	400	.375	1725	BELT	1/6 HP	115/1	7.9	75	COOK MODEL ACRU-B-100R	1 , 3 , 4
EF-1.11	RESTROOM 194	ROOFTOP UPBLAST	400	.375	1725	BELT	1/6 HP	115/1	7.9	75	COOK MODEL ACRU-B-100R	1 , 3 , 4
EF-1.12	FACULTY	CEILING CABINET	100	.375	1075	DIRECT	46.5 W	115/1	2.5	15	COOK MODEL GC-148	1 , 2 , 4

REMARKS:

1. APPROVED ALTERNATE MANUFACTURERS: ACME, GREENHECK, PENNBARRY, TWIN CITY FAN COMPANY, SOLER & PALAU
2. PROVIDE UNIT WITH MANUFACTURER'S ALUMINUM ROOF CAP (FLAT ROOF) EQUAL TO COOK MODEL PR (W/ INTEGRAL BIRD SCREEN AND ROOF CURB), MANUFACTURER'S STEEL ROOF JACK (SLOPED ROOF) EQUAL TO COOK MODEL RJ (W/ INTEGRAL BIRD SCREEN, FLASHING FLANGE AND BLACK EPOXY FINISH), BACKDRAFT DAMPER, OUTLET FLEX DUCT CONNECTION, STANDARD PLUG DISCONNECT, PRE-WIRED FAN SPEED CONTROLLER, THERMAL OVERLOAD PROTECTION, HANGING VIBRATION ISOLATORS, AND WHITE ALUMINUM GRILLE.
3. PROVIDE UNIT WITH MANUFACTURER'S ROOF CURB W/ DAMPER TRAY AND BACKDRAFT DAMPER, THERMAL OVERLOAD PROTECTION (120 VOLT ONLY), PRE-WIRED NEMA 3R ELECTRICAL DISCONNECT SWITCH, AND INTEGRAL BIRD SCREEN.
4. SEE CONTROL DRAWINGS FOR SEQUENCE OF OPERATION.

EXHAUST HOOD SCHEDULE

SYMBOL	TYPE	HOOD DIMENSIONS		EXHAUST AIR			MAKE-UP AIR			WEIGHT LBS.	MANUFACTURER AND MODEL	REMARKS
		LENGTH	DEPTH	AIRFLOW CFM	DUCT CONNECITON	MAX S.P. LOSS	AIRFLOW CFM	DUCT CONNECTION	PLENUM WIDTH			
H-1.1	TYPE II EXHAUST HOOD (MAIN) (FRONT PSP MAKE-UP)	14'-0"	60"	2800	(2)14"Ø	-0.173"	2240	28"X12"	14"	850	CAPTIVEAIRE MODEL 6024 VHB-G-PSP-F TYPE 2 HOOD. WITH DEMAND VENTILATION.	1 , 2 , 3 , 4
H-1.2	TYPE II EXHAUST HOOD (MAIN) (FRONT PSP MAKE-UP)	14'-0"	60"	2800	(2)14"Ø	-0.173"	2240	28"X12"	14"	850	CAPTIVEAIRE MODEL 6024 VHB-G-PSP-F TYPE 2 HOOD. WITH DEMAND VENTILATION.	1 , 2 , 3 , 4
H-1.3	TYPE II DISHWASHER HOOD	3'-6"	48"	525	10"Ø	-0.069"	N/A	N/A	N/A	200	CAPTIVEAIRE MODEL 4824 VHB-G-ND	3

REMARKS:

1. HOOD SYSTEM(S) SHALL BE BY THE SAME MANUFACTURER.
2. PROVIDE WITH REMOTE MOUNTED CONTROLS (INCLUDING VFDs, HMI CABLE, CONTACTORS, AND TEMPERATURE SENSOR) AND ENERGY MANAGEMENT SYSTEM OVERRIDE.
3. PROVIDE HOOD WITH STAINLESS STEEL CEILING WRAP, EXHAUST COLLAR, FULL CONDENSATE CHANNEL AND DRAIN CONNECTION.
4. PROVIDE HOOD WITH STAINLESS STEEL END PANELS AND PERFORATED SUPPLY PLENUMS WITH COLLARS.

GAS FIRED MAKE-UP AIR UNIT SCHEDULE

SYMBOL	AREA SERVED	TYPE	SUPPLY FAN				ELECTRICAL			TEMP RISE (°F)	GAS HEATING		EVAP. FLOW RATE (GAL/HR)	EVAP. COOLER EDB TEMP.	EVAP. COOLER LDB TEMP.	EVAP. COOLER LWB TEMP.	WEIGHT (LBS)	SONES	MANUFACTURER AND MODEL	REMARKS
			MAX. CFM	ESP	HP	RPM	V/Ø	MCA	MOCP		INPUT MBH	OUTPUT MBH								
MAU-1.1	TYPE II HOODS	OUTDOOR, DIRECT GAS FIRED	4480	.50	5.0	1860	208/3	18.8	30	78.0	341.0	314.4	6.22	91.0°F	72.0°F	63.0°F	1550	17	CAPTIVEAIRE MODEL A2-D.500-20D WITH DEMAND VENTILATION	1 , 2 , 3 , 4 , 5

REMARKS:

1. MAKE UP AIR UNIT SHALL BE THE SAME MANUFACTURER AS THE HOOD(S).
2. PROVIDE UNIT WITH STAINLESS STEEL BURNER, EVAPORATIVE COOLING SECTION WITH FREEZE PROTECTION DRAIN DOWN VALVE KIT, FILTER RACK AND FILTERS, INSULATED DOWNTURN PLENUM CABINET, MOTORIZED BACKDRAFT DAMPER, 100% OSA SCREENED INLET AIR HOOD AND FULL ROOF CURB.
3. PROVIDE UNIT WITH TOTALLY ENCLOSED PREMIUM EFFICIENCY MOTORS FOR VFD.
4. UNIT SHALL BE CONTROLLED BY HOOD CONTROL PANEL. SEE CONTROL DRAWINGS FOR SEQUENCE OF OPERATION.
5. ELECTRICAL TO PROVIDE SEPARATE 120V/1Ø CIRCUIT FOR PLUMBING CONTROLS VALVES AT UNIT.

KITCHEN EXHAUST FAN SCHEDULE

SYMBOL	AREA SERVED	UNIT TYPE	BLOWER				ELECTRICAL		MAXIMUM SONES	OPERATING WEIGHT (LBS)	MANUFACTURER AND MODEL	REMARKS
			CFM	ESP	MAXIMUM RPM	DRIVE	HP	V/Ø				
EF-1.1	HOOD H-1.1	ROOF MOUNTED UP BLAST	2800	.50	1097	DIRECT	1.0	208/3	13.9	200	CAPTIVEAIRE MODEL DU180HFA WITH DEMAND VENTILATION	1 , 2 , 3
EF-1.2	HOOD H-1.2	ROOF MOUNTED UP BLAST	2800	.50	1097	DIRECT	1.0	208/3	13.9	200	CAPTIVEAIRE MODEL DU180HFA WITH DEMAND VENTILATION	1 , 2 , 3
EF-1.3	DISH HOOD H-1.3	ROOF MOUNTED UP BLAST	525	.50	1326	DIRECT	.33	115/1	12.2	125	CAPTIVEAIRE MODEL DU33HFA	1 , 2 , 4

REMARKS:

1. EXHAUST FANS SHALL BE THE SAME MANUFACTURER AS THE HOOD(S).
2. PROVIDE UNIT WITH MANUFACTURER'S ROOF CURB W/ DAMPER TRAY AND BACKDRAFT DAMPER, THERMAL OVERLOAD PROTECTION (120 VOLT ONLY), PRE-WIRED NEMA 3R ELECTRICAL DISCONNECT SWITCH, AND INTEGRAL BIRD SCREEN.
3. CONTROL FAN WITH HOOD CONTROL SYSTEM. SEE CONTROL DRAWINGS FOR SEQUENCE OF OPERATION.
4. ELECTRICAL SHALL PROVIDE WALL SWITCH WITH PILOT LIGHT TO CONTROL FAN. SEE CONTROL DRAWINGS FOR SEQUENCE OF OPERATION.

NOTE:
THE HOOD OVER THE COOKING EQUIPMENT IS A TYPE 2 BECAUSE THE KITCHEN WILL BE USED FOR REHEATING FOOD.

ADDENDUM-01 dated 5.11.23

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DRAWING NO.
M-6.1

SUPPLY GRILLE SCHEDULE

SYMBOL	NOMINAL SIZE	NECK / RUNOUT SIZE	CFM RANGE	REMARKS
G-1 CFM SIZE	6X6	6X6	0-180	1 , 2 , 3 , 4
G-2 CFM SIZE	12X8	12X8	180-450	1 , 2 , 3 , 4
G-3 CFM SIZE	14X10	14X10	400-700	1 , 2 , 3 , 4

REMARKS:

1. WALL GRILLE SIZES BASED ON TITUS MODEL 272F, DOUBLE DEFLECTION ADJUSTABLE BLADES, 3/4" SPACING, WHITE FINISH. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, CARNES, J&J REGISTER, TUTTLE & BAILEY, NAILOR, METAL-AIRE, KRUEGER, PRICE, AND UNITED ENERTECH.
2. SIZES BASED ON A MAXIMUM NC LEVEL OF 25.
3. ALL OF THE GRILLES SHOWN IN THIS SCHEDULE MAY NOT BE USED. REFERENCE THE HVAC PLAN FOR GRILLE CALL-OUTS AND THE QUANTITY OF EACH SIZE REQUIRED.
4. WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.

DIFFUSER SCHEDULE

SYMBOL	NOMINAL SIZE	NECK / RUNOUT SIZE	CFM RANGE	REMARKS
D-1 CFM 6"Ø	6X6	6"Ø	0 - 90	1 , 2 , 3 , 4 , 5 , 6 , 7
D-2 CFM 8"Ø	9X9	8"Ø	90 - 200	1 , 2 , 3 , 4 , 5 , 6 , 7
D-3 CFM 10"Ø	12X12	10"Ø	200 - 350	1 , 2 , 3 , 4 , 5 , 6 , 7
D-4 CFM 12"Ø	15X15	12"Ø	300 - 500	1 , 2 , 3 , 4 , 5 , 6 , 7
D-5 CFM 14"Ø	15X15	14"Ø	400 - 650	1 , 2 , 3 , 4 , 5 , 6 , 7
D-6 CFM 16"Ø	18X18	16"Ø	600 - 900	1 , 2 , 3 , 4 , 5 , 6 , 7
D-7 CFM 21X21	21X21	21X21	900 - 1400	1 , 2 , 3 , 4 , 5 , 6 , 7
D-8 CFM 8"Ø	48" (3)-3/4" SLOT, 8" OVAL	8"Ø	0 - 175	2 , 4 , 5 , 6 , 7 , 8
D-9 CFM 12"Ø	48" (3)-3/4" SLOT, 12" OVAL	12"Ø	0 - 240	2 , 4 , 5 , 6 , 7 , 8
D-10 CFM 12"Ø	72" (3)-3/4" SLOT, 10" OVAL	10"Ø	0 - 275	2 , 4 , 5 , 6 , 7 , 8
D-11 CFM 12"Ø	72" (3)-3/4" SLOT, 12" OVAL	12"Ø	250 - 360	2 , 4 , 5 , 6 , 7 , 8
D-12 CFM 8"Ø	24X24 MODULE 8"Ø NECK	8"Ø"	0 - 200	2 , 4 , 5 , 6 , 7 , 9
D-13 CFM 10"Ø	24X24 MODULE 10"Ø NECK	10"Ø"	100 - 400	2 , 4 , 5 , 6 , 7 , 9
D-14 CFM 18"Ø	40"Ø	18"Ø	700 - 1075	2 , 4 , 5 , 6 , 7 , 10

REMARKS:

1. SIZES BASED ON TITUS MODEL TDCA SERIES, HORIZONTAL TO VERTICAL ADJUSTABLE DISCHARGE. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, J&J REGISTER, NAILOR, METAL-AIRE, TUTTLE & BAILEY, KRUEGER, PRICE, AND UNITED ENERTECH.
2. SIZES BASED ON A MAXIMUM NC LEVEL OF 25.
3. ALL DIFFUSERS LOCATED IN LAY-IN CEILING AREAS SHALL BE BORDER TYPE 3 AND BE MOUNTED IN MANUFACTURER PROVIDED 24"x24" PANELS. ALL DIFFUSERS LOCATED IN HARD CEILING AREAS SHALL BE BORDER TYPE 6 (BEVELED) SURFACE MOUNTED. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF VARIOUS CEILING TYPES.
4. SEE HVAC FLOOR PLANS FOR DIRECTIONAL THROW REQUIREMENTS FOR EACH DIFFUSER.
5. ALL OF THE DIFFUSERS SHOWN IN THIS SCHEDULE MAY NOT BE USED. REFERENCE THE HVAC PLAN FOR DIFFUSER CALL-OUTS AND THE QUANTITY OF EACH SIZE REQUIRED.
6. WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.
7. WHITE FINISH.
8. SIZES BASED ON TITUS MODEL ML-38 WITH PLENUM MP-38. DIFFUSERS LOCATED IN LAY-IN CEILING AREAS SHALL BE BORDER TYPE 3 AND HARD CEILING AREAS SHALL BE BORDER TYPE 6. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF VARIOUS CEILING TYPES. HARD CEILING APPLICATION SHALL BE CLIP TYPE AND NO SCREWS SHALL BE USED ON DIFFUSER. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, J&J REGISTER, NAILOR, METAL-AIRE, TUTTLE & BAILEY, KRUEGER AND PRICE.
9. SIZES BASED ON TITUS MODEL PCS-DF SERIES. 4-WAY ADJUSTABLE DEFLECTORS (PATTERN CONTROLLER), VERTICAL/HORZONTAL WITH HINGED DROP PERFORATED FACE. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, J&J REGISTER, NAILOR, METAL-AIRE, TUTTLE & BAILEY, KRUEGER, PRICE, AND UNITED ENERTECH
10. SIZES BASED ON TITUS MODEL TMRA, TYPE 3, ROUND CEILING DIFFUSER, STEEL CONSTRUCTION. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, J&J REGISTER, NAILOR, METAL-AIRE, TUTTLE & BAILEY, KRUEGER , PRICE, AND UNITED ENERTECH.

RETURN & EXHAUST GRILLE SCHEDULE

SYMBOL	NOMINAL SIZE	NECK / RUNOUT SIZE	CFM RANGE	REMARKS
R-1 6"Ø	8X8	6"Ø	0-80	1 , 2 , 3 , 4 , 5 , 6
R-2 8"Ø	10X10	8"Ø	80-180	1 , 2 , 3 , 4 , 5 , 6
R-3 10"Ø	12X12	10"Ø	180-300	1 , 2 , 3 , 4 , 5 , 6
R-4 6"Ø	22X10	6"Ø	0-80	1 , 2 , 3 , 4 , 5 , 6
R-5 8"Ø	22X10	8"Ø	80-180	1 , 2 , 3 , 4 , 5 , 6
R-6 10"Ø	22X10	10"Ø	180-300	1 , 2 , 3 , 4 , 5 , 6
R-7 12"Ø	22X22	12"Ø	300-500	1 , 2 , 3 , 4 , 5 , 6
R-8 14"Ø	22X22	14"Ø	500-750	1 , 2 , 3 , 4 , 5 , 6
R-9 22X10	22X10	22X10	500-1100	1 , 2 , 3 , 4 , 5 , 6
R-10 22X22	22X22	22X22	1100-2000	1 , 2 , 3 , 4 , 5 , 6
R-11 22X22	22X22	16"Ø	1100-1300	1 , 2 , 3 , 4 , 5 , 6
R-12 22X22	22X22	18"Ø	1100-1700	1 , 2 , 3 , 4 , 5 , 6
R-13 10X10	10X10	10X10	0-200	1 , 2 , 3 , 4 , 5 , 6
R-14 10X6	10X6	10X6	0-180	2 , 4 , 5 , 6 , 8
R-15 12X6	12X6	12X6	0-200	2 , 4 , 5 , 6 , 7
R-16 36X24	36X24	36X24	0-2500	2 , 4 , 5 , 6 , 8
R-17 18X14	18X14	18X14	0-1000	2 , 4 , 5 , 6 , 8
R-18 12X12	12X12	12X12	0-500	2 , 4 , 5 , 6 , 8
R-19 8X8	8X8	8X8	0-400	2 , 4 , 5 , 6 , 7
R-20 12X8	12X8	12X8	0-160	2 , 4 , 5 , 6 , 8
R-21 24X8	24X8	24X8	0-250	2 , 4 , 5 , 6 , 8

REMARKS:

1. SIZES BASED ON TITUS MODEL 50F, ALUMINUM EGGCRATE RETURN GRILLE, 1/2" x 1/2" x 1" SPACING (SINGLE CORE). PROVIDE SQUARE TO ROUND TRANSITION (WHERE ROUND RUN-OUT INDICATED). APPROVED ALTERNATE MANUFACTURERS INCLUDE , ANEMOSTAT, CARNES, PRICE, NAILOR, METAL-AIRE, TUTTLE & BAILEY, KRUEGER, J&J REGISTER, AND UNITED ENERTECH.
2. SIZES BASED ON A MAXIMUM NC LEVEL OF 25.
3. ALL GRILLES LOCATED IN LAY-IN CEILING AREAS SHALL HAVE BORDER #3, UNLESS OTHERWISE INDICATED. ALL GRILLES LOCATED IN HARD CEILING AREAS SHALL HAVE BORDER #1, UNLESS OTHERWISE INDICATED. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF VARIOUS CEILING TYPES. SHEET METAL DUCTWORK VISIBLE BEHIND GRILLE SHALL BE PAINTED FLAT BLACK.
4. ALL OF THE GRILLES SHOWN IN THIS SCHEDULE MAY NOT BE USED. REFERENCE THE HVAC PLAN FOR GRILLE CALL-OUTS AND THE QUANTITY OF EACH SIZE REQUIRED.
5. WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.
6. WHITE FINISH.
7. LOW WALL GRILLE SIZES BASED ON TITUS MODEL 33R, HEAVY DUTY STEEL, 14 GAUGE BLADES, 1/2" SPACING, 38° DEFLECTION, ALL-WELDED CONSTRUCTION. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, CARNES, J&J REGISTER, NAILOR, TUTTLE & BAILEY, KRUEGER, PRICE, AND UNITED ENERTECH.
8. HIGH WALL GRILLE SIZES BASED ON TITUS MODEL 355 RL, STEEL BAR GRILLE, FIXED BLADES, 1/2" SPACING, 35° DEFLECTION, ADJUSTABLE OPPOSED BLADE DAMPER. APPROVED ALTERNATE MANUFACTURERS INCLUDE ANEMOSTAT, CARNES, J&J REGISTER, NAILOR, TUTTLE & BAILEY, KRUEGER, PRICE, AND UNITED ENERTECH.

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GENERAL:
THE PACKAGED ROOFTOP UNIT W/ CONSTANT VOLUME (CV) CONTROL SHALL CONSIST OF AN OUTSIDE AIR INTAKE W/ MODULATING DAMPERS, A RETURN AIR INTAKE W/ MODULATING DAMPERS, A CONSTANT VOLUME EXHAUST FAN, A SUPPLY FAN, A GAS-FIRED HEAT EXCHANGER, A DX COOLING COIL, AND A SPACE TEMPERATURE SENSOR. THE RTU'S THAT SERVE MULTIPLE AREAS SHALL INCLUDE AVERAGING TEMPERATURE SENSORS (SEE FLOOR PLAN FOR QUANTITY). THE CONTROL CONTRACTOR SHALL PROVIDE A NEW DDC CONTROL PACKAGE DEDICATED TO THE COMPLETE OPERATION OF THE UNIT.

THE SUPPLY FAN SHALL START AND STOP ON THE MASTER WEEKLY AND HOLIDAY SCHEDULE SET AT THE OPERATOR'S WORKSTATION.

ALL PARAMETERS SHALL BE REMOTELY ADJUSTABLE FROM THE BUILDING AUTOMATION SYSTEM.

MORNING WARM-UP / COOLDOWN:
MORNING WARM-UP / COOLDOWN SHALL BE CONTROLLED BY AN OPTIMUM START / STOP MODE PROVIDED BY THE DDC CONTROLLER THAT AIDS IN THE REDUCTION OF ENERGY COSTS DURING A BUILDING'S TRANSITION FROM UNOCCUPIED TO OCCUPIED OR OCCUPIED TO UNOCCUPIED. THIS SCENERIO IS ACCOMPLISHED BY TURNING ON THE PRE-HEATING / PRE-COOLING AS LATE AS POSSIBLE TO REACH COMFORT LEVELS PRIOR TO OCCUPANCY AND TURNING OFF THE HEATING / COOLING AS EARLY AS POSSIBLE WHILE STILL MAINTAINING OCCUPIED ZONE COMFORT UNTIL THE ZONE IS VACANT.

THE DDC CONTROLLER OPTIMUM START / STOP MODE SHALL CONTINUOUSLY MONITOR, CALCULATE AND ADJUST THE FOLLOWING VARIABLES IN ORDER TO DETERMINE THE OPTIMAL START / STOP TIMES:

1. OUTSIDE AIR TEMPERATURE.
2. OPTIMUM ECONOMIZER POSITION (COOLDOWN).
3. RATE OF WARM-UP / COOL-DOWN IN EACH ZONE AFTER EQUIPMENT START-UP.
4. TEMPERATURE DIFFERENCE BETWEEN THE ZONE TEMPERATURE AND THE HEATING / COOLING SET POINTS.
5. AMOUNT OF TIME REQUIRED TO RAISE OR LOWER THE ZONE TEMPERATURE 1°F.
6. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED DURING THE WARM-UP MODE.

OCCUPIED MODE:
WHEN THE UNIT IS SCHEDULED INTO THE OCCUPIED MODE THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE OUTSIDE AIR / RETURN AIR DAMPERS.
   a. THE DAMPERS SHALL MODULATE TO PROVIDE THE MINIMUM AMOUNT OF OUTSIDE AIRFLOW (AS INDICATED IN THE ROOFTOP UNIT SCHEDULE).
   b. VALIDATE THE POSITION THROUGH THE DAMPER POSITION TRANSMITTER.
      1) IF THE DAMPERS FAILS TO PROVIDE THE MINIMUM AMOUNT OF OUTSIDE AIR, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. SEND AN ENABLE COMMAND TO THE SUPPLY FAN.
   a. VALIDATE THE RUNNING STATUS THROUGH THE CURRENT SENSING RELAY.
      1) IF THE FAN FAILS TO START, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE OCCUPIED MODE SPACE TEMPERATURE COOLING SET POINT SHALL BE SET AT 75°F (ADJUSTABLE).
THE OCCUPIED MODE SPACE TEMPERATURE HEATING SET POINT SHALL BE SET AT 70°F (ADJUSTABLE).

UNOCCUPIED MODE:
WHEN THE UNIT IS SCHEDULED INTO THE UNOCCUPIED MODE THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE OUTSIDE AIR / RETURN AIR DAMPERS.
   a. THE DAMPERS SHALL MODULATE TO PROVIDE 100% RETURN AIR.
   b. VALIDATE THE POSITION THROUGH THE DAMPER POSITION TRANSMITTER.
      1) IF THE DAMPERS FAIL TO PROVIDE 100% RETURN AIR, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. SEND A DISABLE COMMAND TO THE SUPPLY FAN.
   a. VALIDATE THE RUNNING STATUS THROUGH THE CURRENT SENSING RELAY.
      1) IF THE SUPPLY FAN FAILS TO STOP, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE SUPPLY FAN(S) SHALL CYCLE W/ THE HEATING AND COOLING MODES OF OPERATION TO MAINTAIN THE UNOCCUPIED SPACE TEMPERATURE SET POINTS.

THE UNOCCUPIED MODE SPACE TEMPERATURE COOLING SET POINT SHALL BE SET AT 85°F (ADJUSTABLE).
THE UNOCCUPIED MODE SPACE TEMPERATURE HEATING SET POINT SHALL BE SET AT 55°F (ADJUSTABLE).

COOLING MODE OF OPERATION (DRY BULB ECONOMIZER):
THE DRY BULB ECONOMIZER COOLING MODE OF OPERATION SHALL BE ENABLED WHENEVER ALL OF THE FOLLOWING CONDITIONS EXIST:

1. THE SPACE TEMPERATURE INCREASES ABOVE THE SPACE TEMPERATURE COOLING SET POINT.
2. THE OUTSIDE AIR TEMPERATURE IS 2°F (ADJUSTABLE) BELOW THE RETURN AIR TEMPERATURE.

WHEN THE ABOVE CONDITIONS ARE MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE OUTSIDE AIR / RETURN AIR DAMPERS.
   a. THE DAMPERS SHALL MODULATE UP TO 100% OUTSIDE AIR TO MAINTAIN THE SPACE TEMPERATURE COOLING SET POINT.

COOLING MODE OF OPERATION (DX COOLING):
THE DX COOLING MODE OF OPERATION SHALL BE ENABLED WHENEVER ALL THE FOLLOWING CONDITIONS EXIST:

1. THE SPACE TEMPERATURE INCREASES 1°F (ADJUSTABLE) ABOVE THE SPACE TEMPERATURE COOLING SET POINT.
2. THE OUTSIDE AIR / RETURN AIR DAMPERS ARE POSITIONED AT EITHER THEIR MINIMUM OR MAXIMUM OUTSIDE AIR SETTINGS.

WHEN THE ABOVE CONDITIONS ARE MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE DX COOLING SYSTEM (COMPRESSORS / CONDENSER FANS).
   a. VALIDATE THE RUNNING STATUS THROUGH A TEMPERATURE DECREASE OF 5°F (ADJUSTABLE) IN THE SUPPLY AIR TEMPERATURE.
      1) IF A TEMPERATURE DECREASE CANNOT BE DETECTED FOR A PERIOD OF 2 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
   b. THE UNIT'S CONTROLLER SHALL STAGE THE COMPRESSORS TO MAINTAIN THE SPACE TEMPERATURE COOLING SET POINT.

THE COOLING MODE OF OPERATION SHALL BE DISABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE SPACE TEMPERATURE DECREASES 1°F (ADJUSTABLE) BELOW THE SPACE TEMPERATURE COOLING SET POINT FOR A PERIOD OF 30 CONSECUTIVE SECONDS (ADJUSTABLE).

WHEN THE ABOVE CONDITION IS MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE DX COOLING SYSTEM (COMPRESSORS / CONDENSER FANS).
   a. VALIDATE THE RUNNING STATUS THROUGH A TEMPERATURE INCREASE OF 5°F (ADJUSTABLE) IN THE SUPPLY AIR TEMPERATURE.
      1) IF A TEMPERATURE INCREASE CANNOT BE DETECTED FOR A PERIOD OF 2 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

HEATING MODE OF OPERATION (GAS-FIRED):
THE HEATING MODE OF OPERATION (GAS-FIRED) SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE SPACE TEMPERATURE DECREASES 1°F (ADJUSTABLE) BELOW THE SPACE TEMPERATURE HEATING SET POINT.

WHEN THE ABOVE CONDITION IS MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO STAGE #1 (LOW FIRE) OF THE GAS-FIRED HEATING SYSTEM:
   a. VALIDATE THE RUNNING STATUS THROUGH A TEMPERATURE INCREASE OF 5°F (ADJUSTABLE) IN THE SUPPLY AIR TEMPERATURE.
      1) IF A TEMPERATURE INCREASE CANNOT BE DETECTED FOR A PERIOD OF 2 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

IF THE SPACE TEMPERATURE DECREASES 2°F (ADJUSTABLE) BELOW THE SPACE TEMPERATURE HEATING SET POINT, THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO STAGE #2 (HIGH FIRE) OF THE GAS-FIRED HEATING SYSTEM:
   a. VALIDATE THE RUNNING STATUS THROUGH A TEMPERATURE INCREASE OF 5°F (ADJUSTABLE) IN THE SUPPLY AIR TEMPERATURE.
      1) IF A TEMPERATURE INCREASE CANNOT BE DETECTED FOR A PERIOD OF 2 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE SPACE TEMPERATURE HEATING MODE OF OPERATION (GAS-FIRED) SHALL BE DISABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE SPACE TEMPERATURE INCREASES 1°F (ADJUSTABLE) ABOVE THE SPACE TEMPERATURE HEATING SET POINT.

WHEN THE ABOVE CONDITION IS MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE GAS-FIRED HEATING SYSTEM.
   a. VALIDATE THE RUNNING STATUS THROUGH A TEMPERATURE DECREASE OF 5°F (ADJUSTABLE) IN THE SUPPLY AIR TEMPERATURE.
      1) IF A TEMPERATURE DECREASE CANNOT BE DETECTED FOR A PERIOD OF 2 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

INDOOR AIR QUALITY (IAQ) OPERATION:
WHENEVER THE ROOFTOP UNIT IS IN THE OCCUPIED MODE AND THE SUPPLY FAN IS ON, THE DDC CONTROLLER SHALL CONTINUOUSLY CALCULATE THE MINIMUM DAMPER POSITION NECESSARY TO MAINTAIN THE SPACE CO2 SET POINT (DEMAND CONTROLLED VENTILATION OR DCV). AS THE CO2 LEVEL INCREASES ABOVE THE SET POINT, THE ROUTINE SHALL INCREASE THE OUTSIDE AIR REQUIREMENT AND AS THE CO2 LEVEL FALLS BELOW THE SET POINT, THE ROUTINE SHALL DECREASE THE CALCULATED VALUE. THE MINIMUM AND MAXIMUM OUTSIDE AIR DAMPER POSITIONS SHALL BE EQUAL TO THE OUTSIDE AIRFLOWS LISTED IN THE ROOFTOP UNIT SCHEDULE.

THE MAXIMUM SPACE CO_2 SET POINT SHALL BE SET AT 1,100 PPM (ADJUSTABLE).

THE MINIMUM CO_2 SET POINT SHALL BE SET AT 0 PPM (ADJUSTABLE).

THE MAXIMUM OUTSIDE AIR DAMPER POSITION IN DCV MODE SHALL BE SET TO THE AIRFLOW LISTED IN THE RTU SCHEDULE.

IAQ SHALL BE SUSPENDED AND THE OUTSIDE AIR DAMPERS SHALL BE RESET TO THEIR MINIMUM OUTSIDE AIRFLOW SETTINGS FOR A PERIOD OF 10 MINUTES (ADJUSTABLE) WHENEVER THE AVERAGE SPACE TEMPERATURE INCREASES 3°F (ADJUSTABLE) ABOVE THE SPACE COOLING SET POINT OR 3°F (ADJUSTABLE) BELOW THE SPACE HEATING SET POINT.

EXHAUST SYSTEM:
THE EXHAUST SYSTEM SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITIONS EXIST:

1. THE SUPPLY FAN IS ENABLED.
2. THE ECONOMIZER DAMPER END SWITCH REACHES 50% OPEN (ADJUSTABLE).

WHEN THE ABOVE CONDITIONS ARE MET THE DDC CONTROLLER SHALL ENABLE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE EXHAUST FAN.
   a. VALIDATE THE RUNNING STATUS THROUGH THE CURRENT SENSING RELAY.
      1) IF THE FAN FAILS TO START, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE EXHAUST SYSTEM SHALL BE DISABLED WHENEVER ONE OF THE FOLLOWING CONDITIONS EXISTS:

1. THE SUPPLY FAN IS OFF.
2. THE ECONOMIZER DAMPER END SWITCH DROPS BELOW 50% OPEN (ADJUSTABLE).

WHEN ONE OF THE ABOVE CONDITIONS IS MET THE DDC CONTROLLER SHALL ENABLE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE EXHAUST FAN.
   a. VALIDATE THE RUNNING STATUS THROUGH THE CURRENT SENSING RELAY.
      1) IF THE FAN FAILS TO STOP, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

PACKAGED ROOFTOP UNIT W/ CONSTANT VOLUME (CV) SUPPLY & EXHAUST FAN CARBON DIOXIDE CONTROL SEQUENCE OF OPERATION

(RTU-1.1, RTU-1.2, RTU-1.4, RTU-1.6, RTU-1.8, RTU-1.9, RTU-1.10, RTU-1.11, RTU-1.12, RTU-1.13, RTU-1.14, RTU-1.15, RTU-1.16, RTU-1.17, RTU-1.18, RTU-1.19, RTU-1.20, RTU-1.21, RTU-1.22, RTU-1.23, RTU-1.24, & RTU-1.25)

GENERAL:
THE DUCTLESS SPLIT SYSTEM SHALL CONSIST OF AN INDOOR FAN COIL UNIT, AN OUTDOOR CONDENSING UNIT/HEAT PUMP, A MANUFACTURER PROVIDED WIRED CONTROLLER, AND A DDC TEMPERATURE SENSOR.

OPERATION:
THE WIRED CONTROLLER SHALL CONTROL THE OPERATION OF THE DUCTLESS SPLIT SYSTEM.

COOLING MODE OF OPERATION (DFC-1.1/DCU-1.1, DFC-1.2/DHP-1.2, & DFC-1.3/DCU-1.3):
IF COOLING IS REQUIRED, THE WIRED CONTROLLER SHALL ENABLE THE COMPRESSORIZED COOLING SYSTEM TO MAINTAIN THE USER ADJUSTABLE COOLING SPACE SET POINT. IF THE SPACE IS BELOW THE COOLING SET POINT, THE DUCTLESS SPLIT SYSTEM SHALL BE DISABLED.

HEATING MODE OF OPERATION (DFC-1.2/DHP-1.2):
IF HEATING IS REQUIRED, THE WIRED CONTROLLER SHALL ENABLE THE COMPRESSORIZED HEATING SYSTEM TO MAINTAIN THE USER ADJUSTABLE HEATING SPACE SET POINT. IF THE SPACE IS ABOVE THE HEATING SET POINT, THE DUCTLESS SPLIT SYSTEM SHALL BE DISABLED.

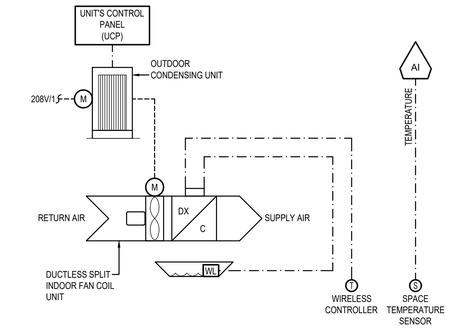
THE SPACE TEMPERATURE COOLING SET POINT SHALL BE SET AT 75°F (ADJUSTABLE).
THE SPACE TEMPERATURE HEATING SET POINT SHALL BE SET AT 70°F (ADJUSTABLE).

SAFETIES:
1. IF THE SPACE TEMPERATURE INCREASES TO 85°F (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. THE SYSTEM SHALL BE DISABLED WHENEVER THE WATER LEVEL OVERFLOW SWITCH INDICATES A HIGH CONDENSATE LEVEL.

DUCTLESS SPLIT SYSTEM SEQUENCE OF OPERATION

(DFC-1.1/DCU-1.1, DFC-1.2/DHP-1.2, & DFC-1.3/DCU-1.3)

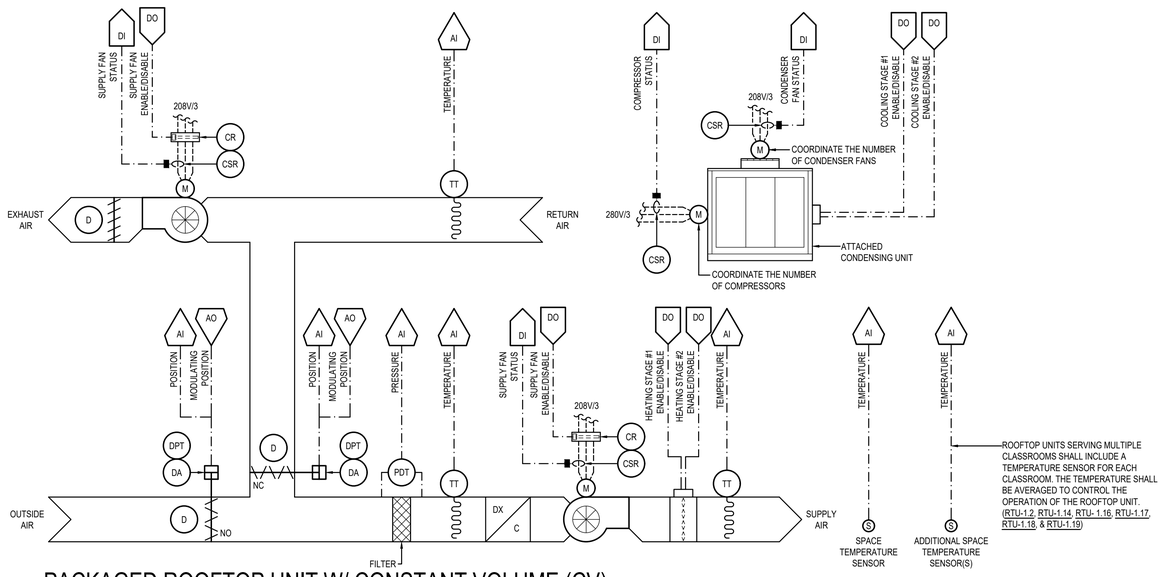
1



DUCTLESS SPLIT SYSTEM CONTROL SCHEMATIC

(DFC-1.1/DCU-1.1, DFC-1.2/DHP-1.2, & DFC-1.3/DCU-1.3)

1



PACKAGED ROOFTOP UNIT W/ CONSTANT VOLUME (CV) SUPPLY & EXHAUST FAN CARBON DIOXIDE CONTROL SYSTEM SCHEMATIC

(RTU-1.1, RTU-1.2, RTU-1.4, RTU-1.6, RTU-1.8, RTU-1.9, RTU-1.10, RTU-1.11, RTU-1.12, RTU-1.13, RTU-1.14, RTU-1.15, RTU-1.16, RTU-1.17, RTU-1.18, RTU-1.19, RTU-1.20, RTU-1.21, RTU-1.22, RTU-1.23, RTU-1.24, & RTU-1.25)

ADDENDUM-01 dated 5.11.23

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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: JM/CD
CHECKED BY: BC

Agency Review

DRAWING NO.
M-7.1

GENERAL:
THE PACKAGED ROOFTOP UNIT W/ CONSTANT VOLUME (CV) AND CARBON DIOXIDE CONTROL SHALL CONSIST OF AN OUTSIDE AIR INTAKE W/ MODULATING DAMPERS, A RETURN AIR INTAKE, AN EXHAUST FAN W/ MODULATING DAMPERS AND A VFD, A SUPPLY FAN, A GAS-FIRED HEAT EXCHANGER, A DX COOLING COIL, AND A CARBON DIOXIDE SENSOR. THE DDC CONTRACTOR SHALL PROVIDE A NEW DDC CONTROL PACKAGE DEDICATED TO THE COMPLETE OPERATION OF THE UNIT.

THE SUPPLY FAN SHALL START AND STOP ON THE MASTER WEEKLY AND HOLIDAY SCHEDULE SET AT THE OPERATOR'S WORKSTATION.

THE TEMPERATURE SENSOR SHALL SIGNAL THE DDC CONTROLLER ITS TEMPERATURE AND THE TEMPERATURE OF THE HEATING AND COOLING SET POINTS.

THE CARBON DIOXIDE SENSOR SHALL SIGNAL THE DDC CONTROLLER THE SPACE CO_2 LEVEL.

THERE SHALL BE NO SPACE TEMPERATURE OR CO_2 LEVELS DISPLAYED.

THE DDC CONTROLLER SHALL BE CAPABLE OF BEING MANUALLY RESET TO THE OCCUPIED MODE FOR A 2-HOUR TIME PERIOD (ADJUSTABLE) UPON A SIGNAL FROM AN OVERRIDE BUTTON LOCATED ON THE TEMPERATURE SENSOR.

ALL PARAMETERS SHALL BE REMOTELY ADJUSTABLE FROM THE BUILDING AUTOMATION SYSTEM.

MORNING WARM-UP / COOLDOWN:
MORNING WARM-UP / COOLDOWN SHALL BE CONTROLLED BY AN OPTIMUM START / STOP MODE PROVIDED BY THE DDC CONTROLLER THAT AIDS IN THE REDUCTION OF ENERGY COSTS DURING A BUILDING'S TRANSITION FROM UNOCCUPIED TO OCCUPIED OR OCCUPIED TO UNOCCUPIED. THIS SCENARIO IS ACCOMPLISHED BY TURNING ON THE PRE-HEATING / PRE-COOLING AS LATE AS POSSIBLE TO REACH COMFORT LEVELS PRIOR TO OCCUPANCY AND TURNING OFF THE HEATING / COOLING AS EARLY AS POSSIBLE WHILE STILL MAINTAINING OCCUPIED ZONE COMFORT UNTIL THE ZONE IS VACANT.

THE DDC CONTROLLER OPTIMUM START / STOP MODE SHALL CONTINUOUSLY MONITOR, CALCULATE AND ADJUST THE FOLLOWING VARIABLES IN ORDER TO DETERMINE THE OPTIMAL START / STOP TIMES:

1. OUTSIDE AIR TEMPERATURE.
2. OPTIMUM ECONOMIZER POSITION (COOLDOWN).
3. RATE OF WARM-UP / COOL-DOWN AFTER EQUIPMENT START-UP.
4. TEMPERATURE DIFFERENCE BETWEEN THE ZONE TEMPERATURE AND THE HEATING / COOLING SET POINTS.
5. AMOUNT OF TIME REQUIRED TO RAISE OR LOWER THE ZONE TEMPERATURE 1°F.
6. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED DURING THE WARM-UP MODE.

OCCUPIED MODE:
WHEN THE UNIT IS SCHEDULED INTO THE OCCUPIED MODE THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE OUTSIDE AIR / RETURN AIR DAMPERS.
   a. THE DAMPERS SHALL MODULATE TO PROVIDE THE MINIMUM AMOUNT OF OUTSIDE AIRFLOW (AS INDICATED IN THE ROOFTOP UNIT SCHEDULE).
   b. VALIDATE THE POSITION THROUGH THE DAMPER POSITION TRANSMITTER.
      1) IF THE DAMPERS FAILS TO PROVIDE THE MINIMUM AMOUNT OF OUTSIDE AIR, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. SEND AN ENABLE COMMAND TO THE SUPPLY FAN.
   a. VALIDATE THE RUNNING STATUS THROUGH THE CURRENT SENSING RELAY.
      1) IF THE FAN FAILS TO START, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE OCCUPIED MODE SPACE TEMPERATURE COOLING SET POINT SHALL BE SET AT 75°F (ADJUSTABLE).
THE OCCUPIED MODE SPACE TEMPERATURE HEATING SET POINT SHALL BE SET AT 70°F (ADJUSTABLE).

UNOCCUPIED MODE:
WHEN THE UNIT IS SCHEDULED INTO THE UNOCCUPIED MODE, THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE OUTSIDE AIR / RETURN AIR DAMPERS.
   a. THE DAMPERS SHALL MODULATE TO PROVIDE 100% RETURN AIR.
   b. VALIDATE THE POSITION THROUGH THE DAMPER POSITION TRANSMITTER.
      1) IF THE DAMPERS FAIL TO PROVIDE 100% RETURN AIR, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. SEND A DISABLE COMMAND TO THE SUPPLY FAN.
   a. VALIDATE THE RUNNING STATUS THROUGH THE CURRENT SENSING RELAY.
      1) IF THE SUPPLY FAN FAILS TO STOP, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE SUPPLY FAN SHALL CYCLE W/ THE HEATING AND COOLING MODES OF OPERATION TO MAINTAIN THE UNOCCUPIED SPACE TEMPERATURE SET POINTS.

THE UNOCCUPIED MODE SPACE TEMPERATURE COOLING SET POINT SHALL BE SET AT 85°F (ADJUSTABLE).
THE UNOCCUPIED MODE SPACE TEMPERATURE HEATING SET POINT SHALL BE SET AT 55°F (ADJUSTABLE).

COOLING MODE OF OPERATION (DRY BULB ECONOMIZER):
THE DRY BULB ECONOMIZER COOLING MODE OF OPERATION SHALL BE ENABLED WHENEVER ALL OF THE FOLLOWING CONDITIONS EXIST:

1. THE SPACE TEMPERATURE INCREASES ABOVE THE SPACE TEMPERATURE COOLING SET POINT.
2. THE OUTSIDE AIR TEMPERATURE IS 2°F (ADJUSTABLE) BELOW THE RETURN AIR TEMPERATURE.

WHEN THE ABOVE CONDITIONS ARE MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE OUTSIDE AIR / RETURN AIR DAMPERS.
   a. THE DAMPERS SHALL MODULATE UP TO 100% OUTSIDE AIR TO MAINTAIN THE SPACE TEMPERATURE COOLING SET POINT.

COOLING MODE OF OPERATION (DX COOLING):
THE DX COOLING MODE OF OPERATION SHALL BE ENABLED WHENEVER ALL THE FOLLOWING CONDITIONS EXIST:

1. THE SPACE TEMPERATURE INCREASES 1°F (ADJUSTABLE) ABOVE THE SPACE TEMPERATURE COOLING SET POINT.
2. THE OUTSIDE AIR / RETURN AIR DAMPERS ARE POSITIONED AT EITHER THEIR MINIMUM OR MAXIMUM OUTSIDE AIR SETTINGS.

WHEN THE ABOVE CONDITIONS ARE MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE DX COOLING SYSTEM (COMPRESSORS / CONDENSER FANS).
   a. VALIDATE THE RUNNING STATUS THROUGH A TEMPERATURE DECREASE OF 5°F (ADJUSTABLE) IN THE SUPPLY AIR TEMPERATURE.
      1) IF A TEMPERATURE DECREASE CANNOT BE DETECTED FOR A PERIOD OF 2 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
   b. THE UNIT'S CONTROLLER SHALL STAGE THE COMPRESSORS TO MAINTAIN THE SPACE TEMPERATURE COOLING SET POINT.

THE COOLING MODE OF OPERATION SHALL BE DISABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE SPACE TEMPERATURE DECREASES 1°F (ADJUSTABLE) BELOW THE SPACE TEMPERATURE COOLING SET POINT FOR A PERIOD OF 30 CONSECUTIVE SECONDS (ADJUSTABLE).

WHEN THE ABOVE CONDITION IS MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE DX COOLING SYSTEM (COMPRESSORS / CONDENSER FANS) .
   a. VALIDATE THE RUNNING STATUS OF THE DX COOLING SYSTEM THROUGH THE UNIT'S CONTROLLER.
      1) IF THE DX COOLING SYSTEM FAILS TO STOP, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

HEATING MODE OF OPERATION (GAS-FIRED - SECOND STAGE OF HEAT IN GYM):
THE HEATING MODE OF OPERATION (GAS-FIRED) SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITIONS EXIST:

1. THE SPACE TEMPERATURE DECREASES 1°F (ADJUSTABLE) BELOW THE SPACE TEMPERATURE HEATING SET POINT.
2. THE ASSOCIATED DESTRATIFICATION FANS HAVE BEEN IN OPERATION FOR 15 MINUTES (ADJUSTABLE). SEE DESTRATIFICATION FAN CONTROL SCHEMATIC FOR FIRST STAGE OF HEAT.

WHEN THE ABOVE CONDITIONS ARE MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO STAGE #1 (LOW FIRE) OF THE GAS-FIRED HEATING SYSTEM:
   a. VALIDATE THE RUNNING STATUS THROUGH A TEMPERATURE INCREASE OF 5°F (ADJUSTABLE) IN THE SUPPLY AIR TEMPERATURE.
      1) IF A TEMPERATURE INCREASE CANNOT BE DETECTED FOR A PERIOD OF 2 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

IF THE SPACE TEMPERATURE DECREASES 2°F (ADJUSTABLE) BELOW THE SPACE TEMPERATURE HEATING SET POINT, THE DIGITAL CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO STAGE #2 (HIGH FIRE) OF THE GAS-FIRED HEATING SYSTEM:
   a. VALIDATE THE RUNNING STATUS THROUGH A TEMPERATURE INCREASE OF 5°F (ADJUSTABLE) IN THE SUPPLY AIR TEMPERATURE.
      1) IF A TEMPERATURE INCREASE CANNOT BE DETECTED FOR A PERIOD OF 2 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE SPACE TEMPERATURE HEATING MODE OF OPERATION (GAS-FIRED) SHALL BE DISABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE SPACE TEMPERATURE INCREASES 1°F (ADJUSTABLE) ABOVE THE SPACE TEMPERATURE HEATING SET POINT.

WHEN THE ABOVE CONDITION IS MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE GAS-FIRED HEATING SYSTEM.
   a. VALIDATE THE RUNNING STATUS THROUGH A TEMPERATURE DECREASE OF 5°F (ADJUSTABLE) IN THE SUPPLY AIR TEMPERATURE.
      1) IF A TEMPERATURE DECREASE CANNOT BE DETECTED FOR A PERIOD OF 2 CONSECUTIVE MINUTES (ADJUSTABLE), AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
2. ALLOW THE UNIT TO ENTER BACK INTO THE OCCUPIED / STANDBY / UNOCCUPIED MODE OF OPERATION.

INDOOR AIR QUALITY (IAQ) OPERATION:
WHENEVER THE ROOFTOP UNIT IS IN THE OCCUPIED MODE AND THE SUPPLY FAN IS ON, THE DDC CONTROLLER SHALL CONTINUOUSLY CALCULATE THE MINIMUM DAMPER POSITION NECESSARY TO MAINTAIN THE SPACE CO2 SET POINT (DEMAND CONTROLLED VENTILATION OR DCV). AS THE CO2 LEVEL INCREASES ABOVE THE SET POINT, THE ROUTINE SHALL INCREASE THE OUTSIDE AIR REQUIREMENT AND AS THE CO2 LEVEL FALLS BELOW THE SET POINT, THE ROUTINE SHALL DECREASE THE CALCULATED VALUE. THE MINIMUM AND MAXIMUM OUTSIDE AIR DAMPER POSITIONS SHALL BE EQUAL TO THE OUTSIDE AIRFLOWS LISTED IN THE ROOFTOP UNIT SCHEDULE.

THE MAXIMUM SPACE CO_2 SET POINT SHALL BE SET AT 1,100 PPM (ADJUSTABLE).

THE MINIMUM CO_2 SET POINT SHALL BE SET AT 0 PPM (ADJUSTABLE).

THE MAXIMUM OUTSIDE AIR DAMPER POSITION IN DCV MODE SHALL BE SET TO THE AIRFLOW LISTED IN THE RTU SCHEDULE.

IAQ SHALL BE SUSPENDED AND THE OUTSIDE AIR DAMPERS SHALL BE RESET TO THEIR MINIMUM OUTSIDE AIRFLOW SETTINGS FOR A PERIOD OF 10 MINUTES (ADJUSTABLE) WHENEVER THE AVERAGE SPACE TEMPERATURE INCREASES 3°F (ADJUSTABLE) ABOVE THE SPACE COOLING SET POINT OR 3°F (ADJUSTABLE) BELOW THE SPACE HEATING SET POINT.

EXHAUST SYSTEM:
THE EXHAUST SYSTEM SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITIONS EXIST:

1. THE SUPPLY FAN IS ENABLED.
2. THE SPACE STATIC PRESSURE INCREASES TO THE DIFFERENTIAL PRESSURE SET POINT OF (POSITIVE) +0.01" W.G. (ADJUSTABLE) FOR A PERIOD OF 5 CONSECUTIVE SECONDS (ADJUSTABLE) WITH RESPECT TO THE OUTDOOR PRESSURE.

WHEN THE ABOVE CONDITIONS ARE MET THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE EXHAUST FAN.
   a. VALIDATE THE RUNNING STATUS THROUGH THE VFD CONTROL INTERFACE.
   b. VALIDATE THE RUNNING STATUS THROUGH THE CURRENT SENSING RELAY.
      1) IF THE FAN FAILS TO START, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.
   c. THE DDC CONTROLLER SHALL MODULATE THE VFD TO MAINTAIN THE SPACE STATIC PRESSURE SET POINT.

THE EXHAUST SYSTEM SHALL BE DISABLED WHENEVER ONE OF THE FOLLOWING CONDITIONS EXISTS:

1. THE SUPPLY FAN IS OFF.
2. THE SPACE PRESSURE DECREASES TO (NEGATIVE) -0.01" W.G. (ADJUSTABLE) FOR 30 CONSECUTIVE SECONDS (ADJUSTABLE).

WHEN ONE OF THE ABOVE CONDITIONS IS MET, THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE EXHAUST FAN.
   a. VALIDATE THE RUNNING STATUS THROUGH THE VFD CONTROL INTERFACE.
   b. VALIDATE THE RUNNING STATUS THROUGH THE CURRENT SENSING RELAY.
      1) IF THE FAN(S) FAILS TO STOP, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

PACKAGED ROOFTOP UNIT W/ CONSTANT VOLUME (CV) SUPPLY & VARIABLE VOLUME (VV) EXHAUST CARBON DIOXIDE CONTROL CONTROL SEQUENCE OF OPERATION

(RTU-1.5A, RTU-1.5B, RTU-1.7A, & RTU-1.7B)

1

GENERAL:
THE DESTRATIFICATION FAN SYSTEM CONSISTS OF A CEILING MOUNTED FAN, TWO SPACE TEMPERATURE SENSORS, AND A WALL-MOUNTED OVERRIDE SWITCH. THE CONTROL CONTRACTOR SHALL PROVIDE A NEW DDC CONTROL PACKAGE. A SEPARATE SYSTEM SHALL BE INSTALLED IN THE GYM AND THE CAFETERIA.

THE NEW SPACE TEMPERATURE SENSORS SHALL SIGNAL THE DDC CONTROLLER THEIR TEMPERATURES AND THE TEMPERATURE OF THE HEATING SET POINT.

DESTRATIFICATION MODE OF OPERATION:
THE DESTRATIFICATION FAN SYSTEM SHALL BE ENABLED AND THE FANS SHALL MODULATE WHENEVER THE FOLLOWING CONDITION EXISTS BASED ON INTERVALS OF TEMPERATURE RISE:

1. THE HIGH SPACE TEMPERATURE RISES ABOVE THE LOW SPACE TEMPERATURE BY:
   a. 0-3°F (ADJUSTABLE) - 50% FAN SPEED
   b. 3-6°F (ADJUSTABLE) - 75% FAN SPEED
   c. 6°F+ (ADJUSTABLE) - 100% FAN SPEED

WHEN THE ABOVE CONDITION EXISTS THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING BASED ON INTERVALS OF TEMPERATURE RISE:

1. SEND AN ENABLE COMMAND TO THE DESTRATIFICATION FANS.
   a. VALIDATE THE STATUS OF THE FANS THROUGH THE CURRENT SENSING RELAYS.
      1) IF ANY FAN FAILS TO ENABLE, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE DESTRATIFICATION FAN SHALL CONTINUE TO MODULATE TO MAINTAIN THE ABOVE MENTIONED TEMPERATURE INTERVALS.

THE DESTRATIFICATION MODE OF OPERATION SHALL BE DISABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE HIGH SPACE TEMPERATURE IS EQUAL TO OR BELOW THE LOW SPACE TEMPERATURE.

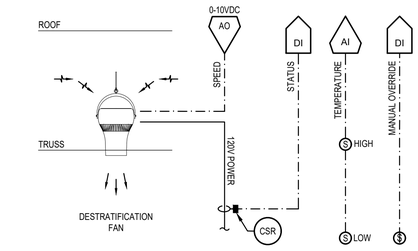
WHEN THE ABOVE CONDITION EXISTS THE DDC CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE DESTRATIFICATION FANS.
   a. VALIDATE THE STATUS OF THE FANS THROUGH THE CURRENT SENSING RELAYS.
      1) IF ANY FAN FAILS TO DISABLE, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

THE OVERRIDE SWITCHES SHALL ENERGIZE EACH FAN AT 100% SPEED (ADJUSTABLE) REGARDLESS OF THE CURRENT STATE OF THE FAN. THIS OVERRIDE SHALL LAST FOR (2) HOURS (ADJUSTABLE). AFTERWARDS THE FAN CONTROL SHALL REVERT BACK TO THE ORIGINAL OPERATION.

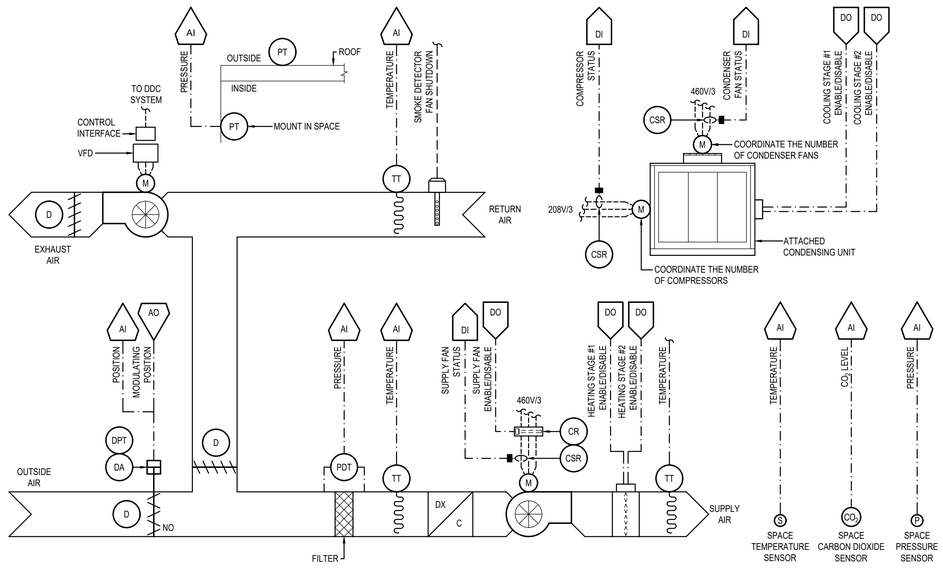
DESTRATIFICATION FAN SEQUENCE OF OPERATION

(DSF-1 & DSF-2)



DESTRATIFICATION FAN CONTROL SCHEMATIC

(DSF-1 & DSF-2)



PACKAGED ROOFTOP UNIT W/ CONSTANT VOLUME (CV) SUPPLY & VARIABLE VOLUME (VV) EXHAUST CARBON DIOXIDE CONTROL SYSTEM SCHEMATIC

(RTU-1.5A, RTU-1.5B, RTU-1.7A, & RTU-1.7B)

1

ADDENDUM-01 dated 5.11.23

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PROFESSIONAL ENGINEER
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16683
5/11/2023
STATE OF IDAHO
CHRISTOPHER DYKE

Revisions	Date
# Description	
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: JM/CD
CHECKED BY: BC

Agency Review

DRAWING NO.
M-7.2

GENERAL:
THE KITCHEN HOOD EXHAUST SYSTEM SHALL CONSIST OF (2) EXHAUST FANS, A MAKE-UP AIR UNIT FURNISHED W/ A GAS-FIRED HEAT EXCHANGER AND A DISCHARGE DAMPER (OPEN / CLOSE), AND TWO HOODS. THE MECHANICAL CONTRACTOR SHALL PROVIDE A COMPLETE CONTROL SYSTEM. THE DDC CONTRACTOR SHALL MONITOR POINTS ONLY.

THE SPACE TEMPERATURE SENSOR SHALL SIGNAL THE HOOD CONTROLLER ITS TEMPERATURE.

THE EXHAUST TEMPERATURE SENSOR SHALL SIGNAL THE HOOD CONTROLLER ITS TEMPERATURE. THE HOOD SHALL INCLUDE AUTOMATIC CONTROL OF THE EXHAUST FANS AND MAKEUP AIR UNITS BASED ON A TEMPERATURE DIFFERENTIAL BETWEEN THE SPACE TEMPERATURE SENSOR AND EXHAUST DUCT TEMPERATURE SENSOR. THE HOOD CONTROLLER SHALL BE PROGRAMMED AS A DYNAMIC SYSTEM TO MODULATE THE EXHAUST AND SUPPLY FANS AS REQUIRED TO MAINTAIN THE SET TEMPERATURE DIFFERENTIAL.

INTERLOCK:
THE MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO THE EXHAUST FANS. WHEN THE EXHAUST FANS ARE ENABLED, THE MAKE-UP AIR UNIT SHALL BE ENABLED. WHEN THE EXHAUST FAN IS DISABLED, THE MAKE-UP AIR UNIT SHALL BE DISABLED.

OPERATION:
THE KITCHEN HOOD EXHAUST SYSTEM SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE TEMPERATURE IN THE EXHAUST DUCT INCREASES TO THE KITCHEN HOOD EXHAUST SYSTEM ENABLE SET POINT OF 10°F ABOVE THE SPACE TEMPERATURE SET POINT (ADJUSTABLE) FOR A PERIOD OF 10 CONSECUTIVE SECONDS (ADJUSTABLE).

WHEN THE ABOVE CONDITION IS MET, THE HOOD CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE EXHAUST FANS.
2. SEND AN OPEN COMMAND TO THE MAKE-UP AIR UNIT DISCHARGE DAMPER.
3. SEND AN ENABLE COMMAND TO THE MAKE-UP AIR UNIT SUPPLY FAN.

THE KITCHEN HOOD EXHAUST SYSTEM SHALL BE DISABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE TEMPERATURE IN THE EXHAUST DUCT DECREASE BELOW THE KITCHEN HOOD EXHAUST SYSTEM ENABLE SET POINT FOR A PERIOD OF 30 CONSECUTIVE SECONDS (ADJUSTABLE).

WHEN THE ABOVE CONDITION IS MET, THE HOOD CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE MAKE-UP AIR UNIT SUPPLY FAN.
2. SEND A CLOSE COMMAND TO THE MAKE-UP AIR UNIT DISCHARGE DAMPER.
3. SEND A DISABLE COMMAND TO THE EXHAUST FANS.

SUPPLY AIR TEMPERATURE CONTROL HEATING MODE OF OPERATION (GAS-FIRED HEATING SYSTEM):
THE SUPPLY AIR TEMPERATURE CONTROL HEATING MODE OF OPERATION (GAS-FIRED HEATING SYSTEM) SHALL BE ENABLED WHENEVER BOTH OF THE FOLLOWING CONDITIONS EXIST:

1. THE MAKE-UP AIR UNIT SUPPLY FAN IS ENABLED.
2. THE SUPPLY AIR TEMPERATURE DECREASES TO THE MINIMUM SUPPLY AIR TEMPERATURE SET POINT OF 60°F (ADJUSTABLE) FOR A PERIOD OF 10 CONSECUTIVE SECONDS (ADJUSTABLE).

WHEN THE ABOVE CONDITIONS ARE MET, THE HOOD CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE MAKE-UP AIR UNIT DIRECT GAS-FIRED HEATING SYSTEM.
   a. THE HOOD CONTROLLER SHALL MODULATE THE GAS-FIRED HEATING SYSTEM TO MAINTAIN THE MINIMUM SUPPLY AIR TEMPERATURE SET POINT.

THE SUPPLY AIR TEMPERATURE CONTROL HEATING MODE OF OPERATION (GAS-FIRED HEATING SYSTEM) SHALL BE DISABLED WHENEVER ONE OF THE FOLLOWING CONDITIONS EXISTS:

1. THE MAKE-UP AIR UNIT SUPPLY FAN IS DISABLED.
2. THE SUPPLY AIR TEMPERATURE INCREASES ABOVE THE MINIMUM SUPPLY AIR TEMPERATURE SET POINT FOR A PERIOD OF 30 CONSECUTIVE SECONDS (ADJUSTABLE).

WHEN ONE OF THE ABOVE CONDITIONS IS MET, THE HOOD CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE MAKE-UP AIR UNIT GAS-FIRED HEATING SYSTEM.

SUPPLY AIR TEMPERATURE CONTROL COOLING MODE OF OPERATION (EVAPORATIVE COOLING SYSTEM):
THE SUPPLY AIR TEMPERATURE CONTROL COOLING MODE OF OPERATION (EVAPORATIVE COOLING SYSTEM) SHALL BE ENABLED WHENEVER BOTH OF THE FOLLOWING CONDITIONS EXIST:

1. THE MAKE-UP AIR UNIT SUPPLY FAN IS ENABLED.
2. THE SUPPLY AIR TEMPERATURE INCREASES TO THE MAXIMUM SUPPLY AIR TEMPERATURE SET POINT OF 75°F (ADJUSTABLE) FOR A PERIOD OF 10 CONSECUTIVE SECONDS (ADJUSTABLE).

WHEN THE ABOVE CONDITIONS ARE MET, THE HOOD CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE MAKE-UP AIR UNIT EVAPORATIVE COOLING SYSTEM.
   a. THE HOOD CONTROLLER SHALL MODULATE THE EVAPORATIVE COOLING SYSTEM TO MAINTAIN THE MAXIMUM SUPPLY AIR TEMPERATURE SET POINT.

THE SUPPLY AIR TEMPERATURE CONTROL COOLING MODE OF OPERATION (EVAPORATIVE COOLING SYSTEM) SHALL BE DISABLED WHENEVER ONE OF THE FOLLOWING CONDITIONS EXISTS:

1. THE MAKE-UP AIR UNIT SUPPLY FAN IS DISABLED.
2. THE SUPPLY AIR TEMPERATURE DECREASES BELOW THE MAXIMUM SUPPLY AIR TEMPERATURE SET POINT FOR A PERIOD OF 30 CONSECUTIVE SECONDS (ADJUSTABLE).

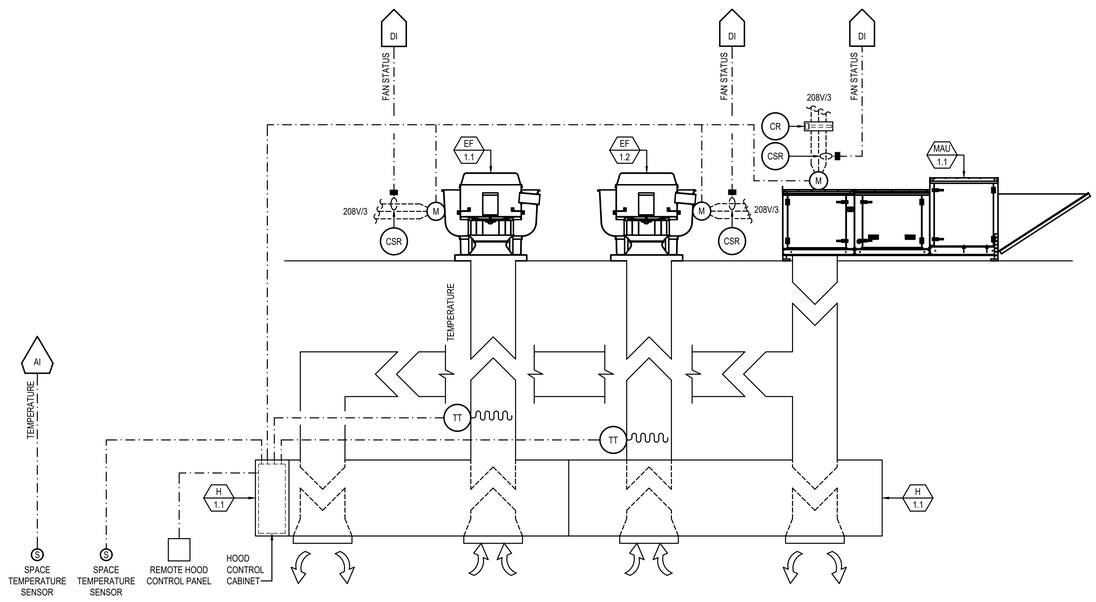
WHEN ONE OF THE ABOVE CONDITIONS IS MET, THE HOOD CONTROLLER SHALL SEQUENCE THE FOLLOWING:

SEND A DISABLE COMMAND TO THE MAKE-UP AIR UNIT EVAPORATIVE COOLING SYSTEM.

ADDITIONAL ITEMS
1. THIS SYSTEM SHALL MEET ALL IECC 403.7.5 REQUIREMENTS.
2. THE DDC CONTRACTOR SHALL MONITOR STATUS OF THE EXHAUST FANS AND SUPPLY FAN OF THE MAKEUP AIR UNIT USING CURRENT SENSING RELAYS. IF THE FANS ARE RUNNING DURING UNOCCUPIED HOURS, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

KITCHEN HOOD MAKE-UP AIR / EXHAUST SYSTEM SEQUENCE OF OPERATION

(H-1.1, H-1.2, MAU-1.1, EF-1.1, & EF-1.2)



KITCHEN HOOD MAKE-UP AIR / EXHAUST SYSTEM CONTROL SCHEMATIC

(H-1.1, H-1.2, MAU-1.1, EF-1.1, & EF-1.2)

GENERAL:
THE DISHWASHER HOOD EXHAUST SYSTEM SHALL CONSIST OF AN EXHAUST FAN AND A PILOT LIGHT WALL SWITCH. THE MECHANICAL CONTRACTOR SHALL PROVIDE A COMPLETE CONTROL SYSTEM. THE DDC CONTRACTOR SHALL MONITOR POINTS ONLY.

OPERATION:
THE DISHWASHER HOOD EXHAUST SYSTEM SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE WALL SWITCH IS ENABLED.

WHEN THE ABOVE CONDITION IS MET, THE FAN INTERLOCK SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE EXHAUST FAN.

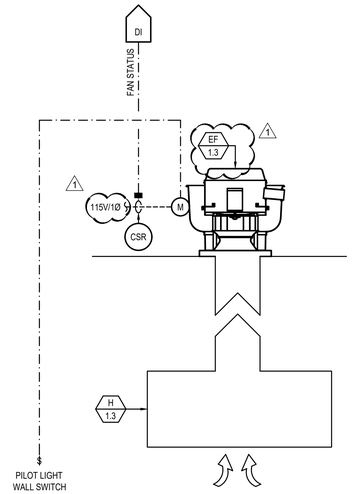
THE DISHWASHER HOOD EXHAUST SYSTEM SHALL BE DISABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE WALL SWITCH IS DISABLED.

ADDITIONAL ITEMS
1. THE DDC CONTRACTOR SHALL MONITOR STATUS OF THE EXHAUST FAN USING A CURRENT SENSING RELAY. IF THE FAN IS RUNNING DURING UNOCCUPIED HOURS, AN ALARM OF THE EVENT SHALL BE SENT TO THE OPERATOR'S WORKSTATION.

DISHWASHER HOOD EXHAUST SYSTEM CONTROL SEQUENCE OF OPERATION

(H-1.3 & EF-1.3)



DISHWASHER HOOD EXHAUST SYSTEM CONTROL SCHEMATIC

(H-1.3 & EF-1.3)

1

GENERAL:
THE ELECTRIC HEATER SYSTEM SHALL CONSIST OF A WALL MOUNTED ELECTRIC HEATER, A SUPPLY FAN, AND AN INTEGRAL TEMPERATURE SENSOR. THE MECHANICAL CONTRACTOR SHALL PROVIDE A NEW STANDALONE CONTROL PACKAGE DEDICATED TO THE COMPLETE OPERATION OF THE SYSTEM.

THE INTEGRAL TEMPERATURE SENSOR SHALL SIGNAL THE UNIT CONTROLLER ITS TEMPERATURE AND THE TEMPERATURE OF THE HEATING SET POINT.

HEATING MODE OF OPERATION:
THE HEATING MODE OF OPERATION SHALL BE ENABLED WHENEVER THE FOLLOWING CONDITION EXISTS:

1. THE SPACE TEMPERATURE DECREASES BELOW THE SPACE TEMPERATURE HEATING SET POINT.

WHEN THE ABOVE CONDITION IS MET THE UNIT CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND AN ENABLE COMMAND TO THE SUPPLY FAN.
2. SEND AN ENABLE COMMAND TO THE ELECTRIC HEATER.

THE HEATING MODE OF OPERATION SHALL BE DISABLED WHENEVER ONE OF THE FOLLOWING CONDITIONS EXIST:

1. THE SPACE TEMPERATURE INCREASES ABOVE THE SPACE TEMPERATURE HEATING SET POINT.

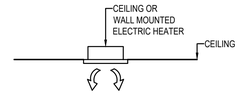
WHEN THE ABOVE CONDITION IS MET THE UNIT CONTROLLER SHALL SEQUENCE THE FOLLOWING:

1. SEND A DISABLE COMMAND TO THE ELECTRIC HEATER.
2. SEND A DISABLE COMMAND TO THE SUPPLY FAN.

THE TYPICAL VESTIBULE/ENTRY SPACE TEMPERATURE HEATING SET POINT SHALL BE 50°F.
THE RISER ROOM SPACE TEMPERATURE HEATING SET POINT SHALL BE 60°F

ELECTRIC HEATER SYSTEM SEQUENCE OF OPERATION

(EH-1.1 THROUGH EH-1.10)



ELECTRIC HEATER SYSTEM CONTROL SCHEMATIC

(EH-1.1 THROUGH EH-1.9)

ADDENDUM-01 dated 5.11.23

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Project No. 22-104

PROFESSIONAL ENGINEER LICENSED 16683 5/11/2023 STATE OF IDAHO CHRISTOPHER DYKE

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: JM/CD
CHECKED BY: BC

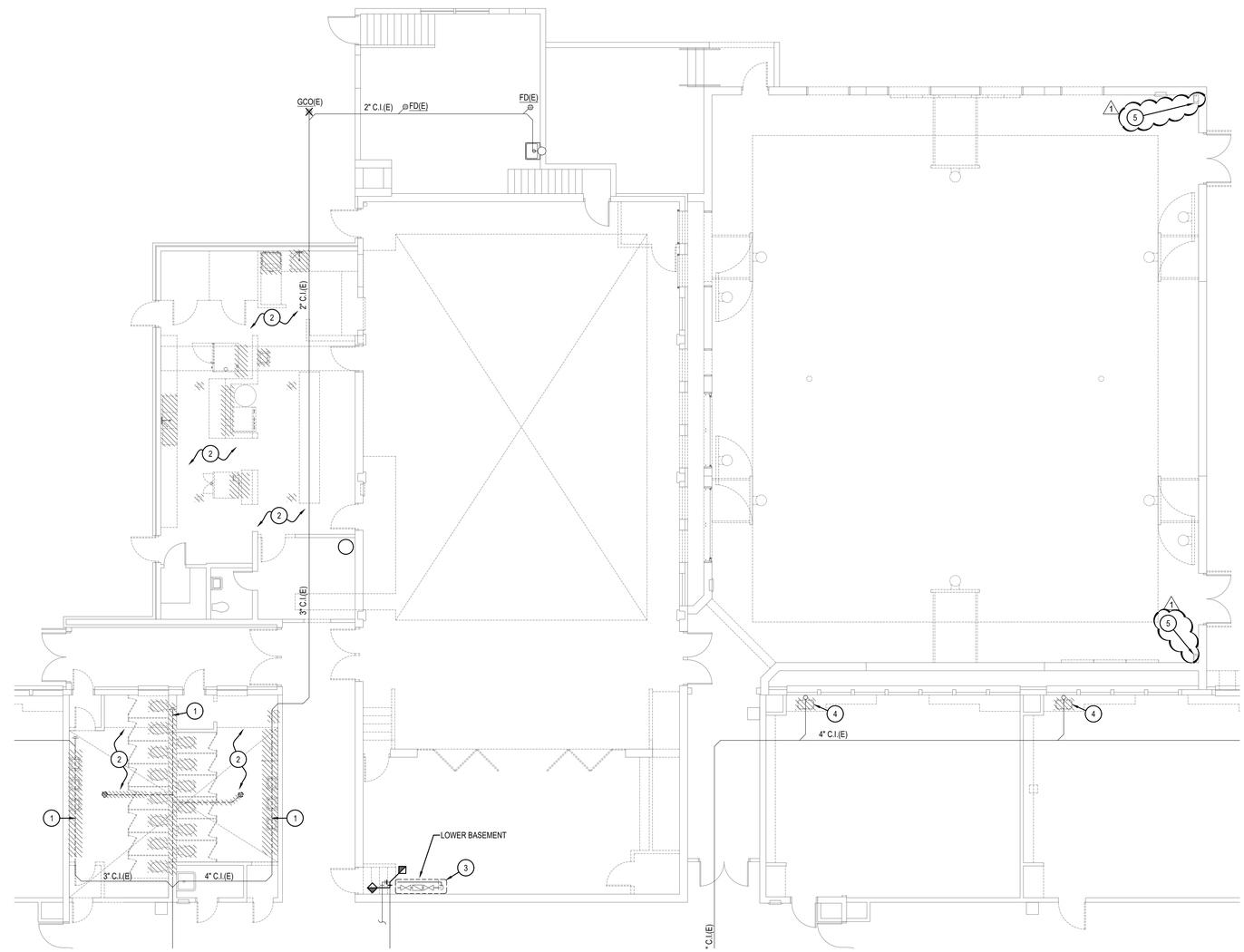
Agency Review

DRAWING NO.
M-7.3

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. REMOVE INDICATED SECTION OF WASTE LINE. SEE NEW WORK FOR CONTINUATION.
2. DISCONNECT AND REMOVE ALL EXISTING PLUMBING FIXTURES IN THIS AREA AND ALL RELATED WASTE, VENT, CW, & HW CONNECTIONS.
3. REMOVE, RETAIN AND PROTECT EXISTING REDUCED PRESSURE BACKFLOW DEVICE FOR RELOCATION. SEE NEW WORK PLUMBING PLANS FOR NEW LOCATION. THE EXISTING ACTIVE WATER LINE ENDS SHALL BE CONNECTED TOGETHER TO CONTINUE FLOW, MATCH EXISTING PIPE SIZE AND MATERIAL, FIELD VERIFY
4. REMOVE SINK AND FAUCET. RETAIN UTILITIES FOR NEW WORK.
5. REMOVE EXISTING ROOF DRAIN PIPING AND OVERFLOW DRAIN PIPING. REMOVE WALL COW TONGUES, PATCH WALL TO MATCH EXISTING. ROOF DRAIN FIXTURE SHALL REMAIN AND BE USED IN NEW WORK.

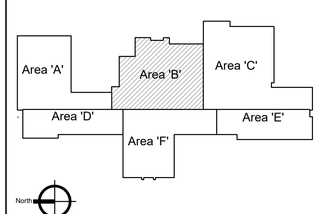


N 1 Plumbing Demolition Plan - Area 'B'

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

ADDENDUM-01 dated 5.11.23

Key Plan



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PROFESSIONAL ENGINEER LICENSED 16683 5/11/2023 STATE OF IDAHO CHRISTOPHER DYKE

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: JM/CD
CHECKED BY: BC

Agency Review

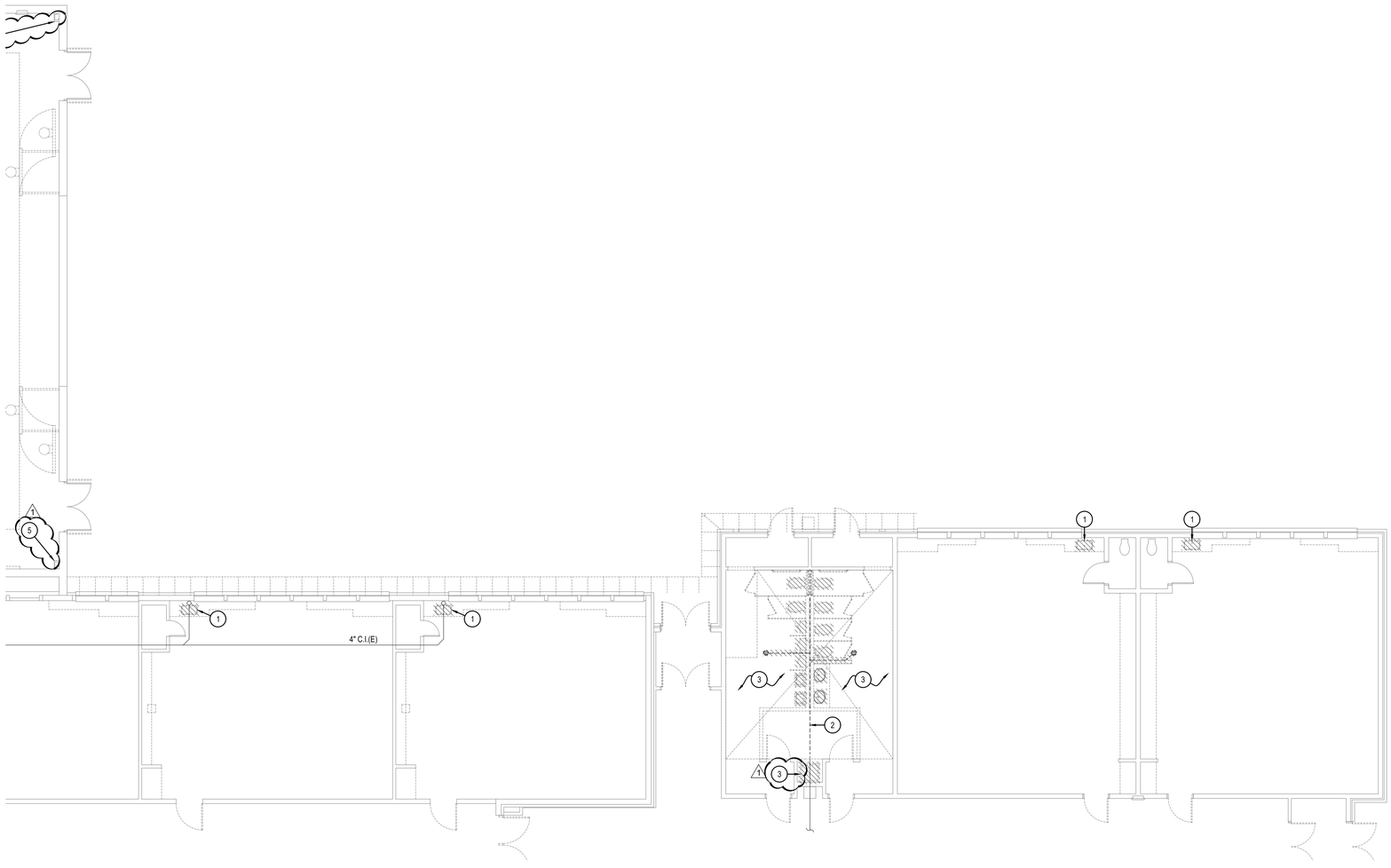
DRAWING NO.

P-1.2

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. ~~REMOVE SINK AND FAUCET. RETAIN UTILITIES FOR NEW WORK.~~ 1
2. REMOVE INDICATED SECTION OF WASTE LINE. SEE NEW WORK FOR CONTINUATION.
3. DISCONNECT AND REMOVE ALL EXISTING PLUMBING FIXTURES IN THIS AREA AND ALL RELATED WASTE, VENT, CW, & HW CONNECTIONS.

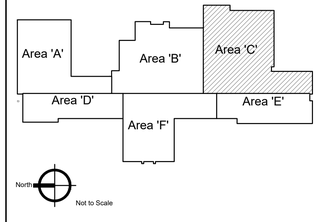


N. 1 Plumbing Demolition Plan - Area 'C'

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

ADDENDUM-01 dated 5.11.23

Key Plan



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Project No. 22-104

PROFESSIONAL ENGINEER LICENSED 16683 5/11/2023 STATE OF IDAHO CHRISTOPHER DYKE

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: JM/CD
CHECKED BY: BC

Agency Review

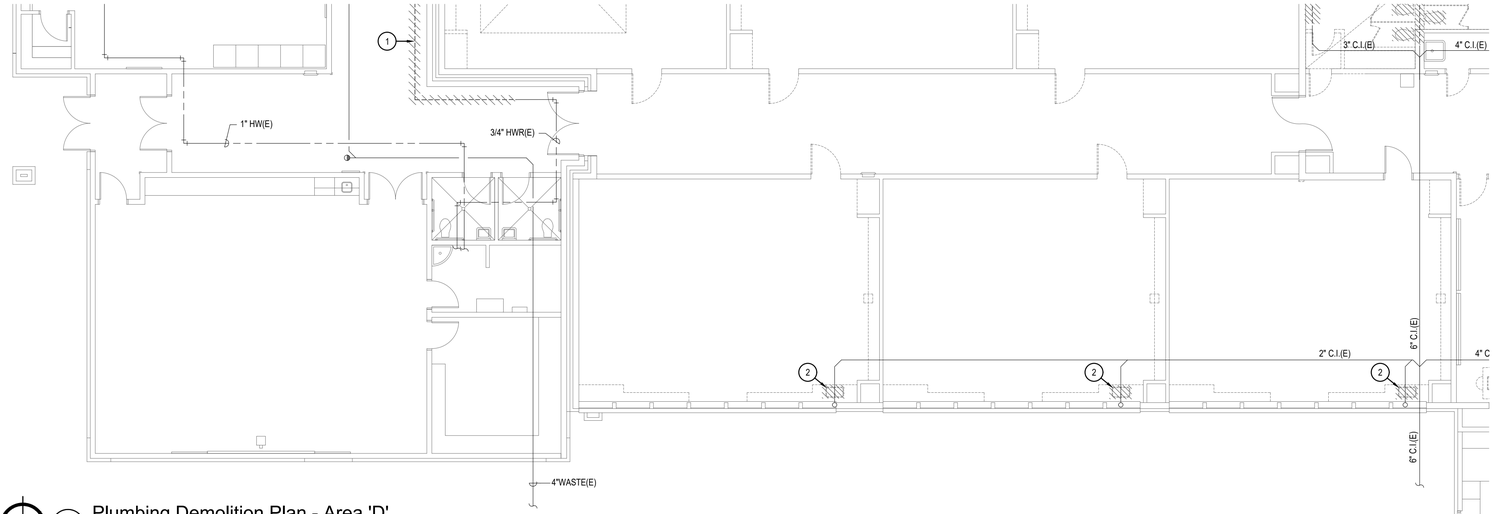
DRAWING NO.

P-1.3

KEYED NOTES:

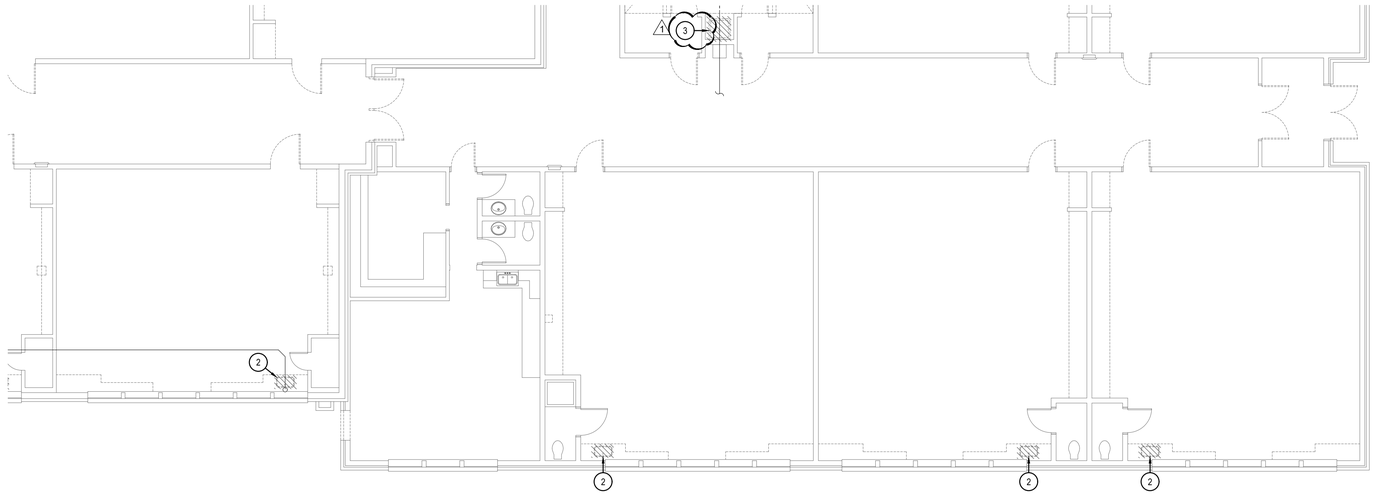
(#) SYMBOL USED FOR NOTE CALLOUT.

1. REMOVE INDICATED SECTION OF WATER LINE. SEE NEW WORK FOR CONTINUATION.
2. REMOVE SINK AND FAUCET. RETAIN UTILITIES FOR NEW WORK.
3. REMOVE UTILITY SINK AND ASSOCIATED CONNECTIONS AND CAP.



N. 1 Plumbing Demolition Plan - Area 'D'

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

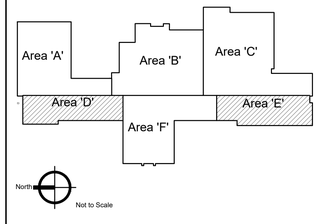


N. 2 Plumbing Demolition Plan - Area 'E'

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

ADDENDUM-01 dated 5.11.23

Key Plan



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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: JM/CD
CHECKED BY: BC

Agency Review

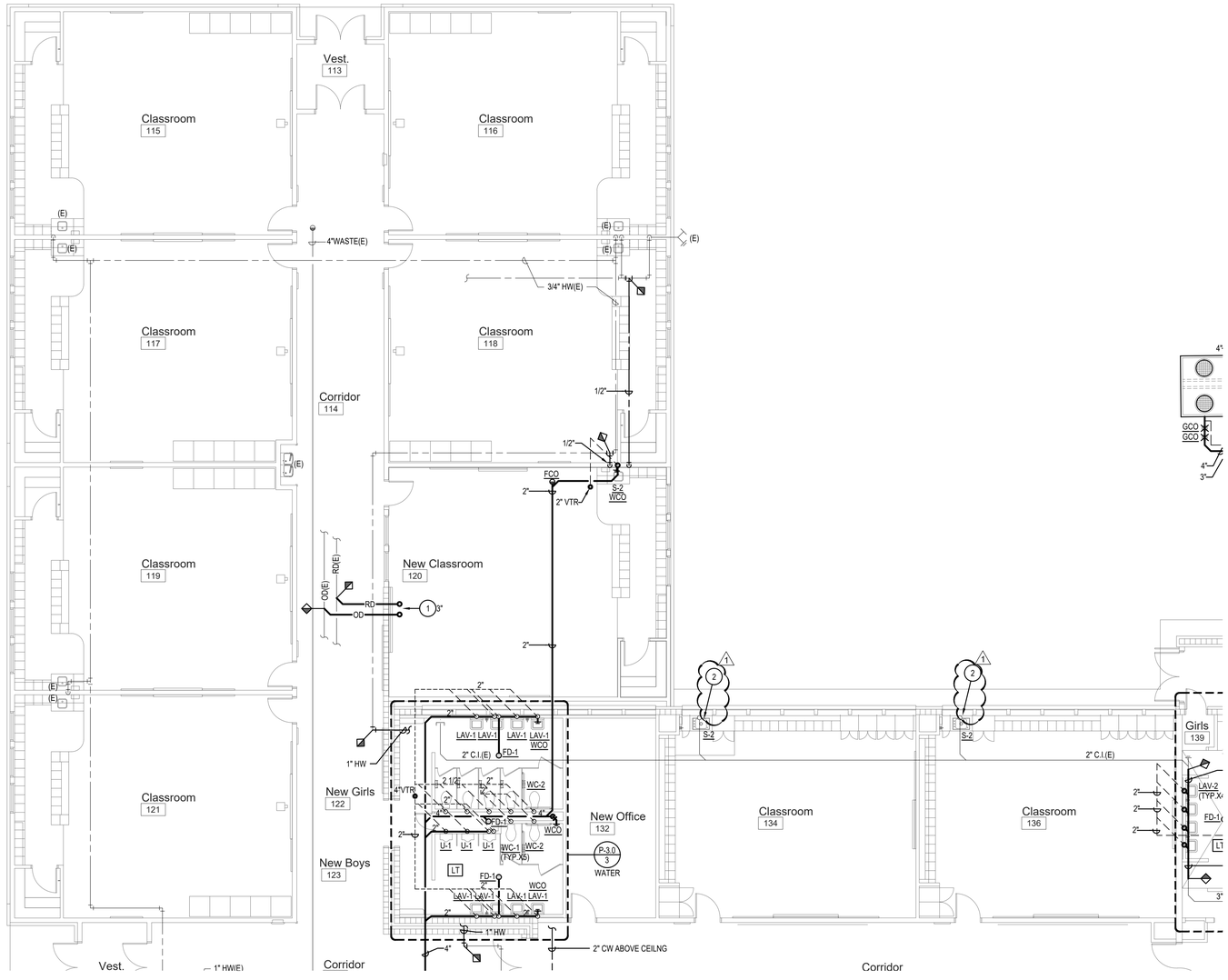
DRAWING NO.

P-1.4

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. CONNECT TO ROOF DRAINS ABOVE.
2. CONNECT NEW SINK TO EXISTING UTILITIES. PROVIDE NEW TRIM, TYPICAL. (1)

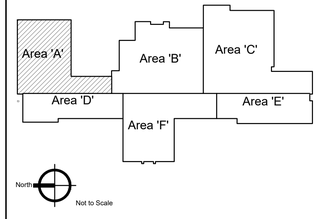


N. 1 **Plumbing New Work Plan - Area 'A'**

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

ADDENDUM-01 dated 5.11.23

Key Plan



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Project No. 22-104

PROFESSIONAL ENGINEER LICENSED 16683 5/11/2023 STATE OF IDAHO CHRISTOPHER DYKE

Revisions	Date
Addendum #1	05/11/2023

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

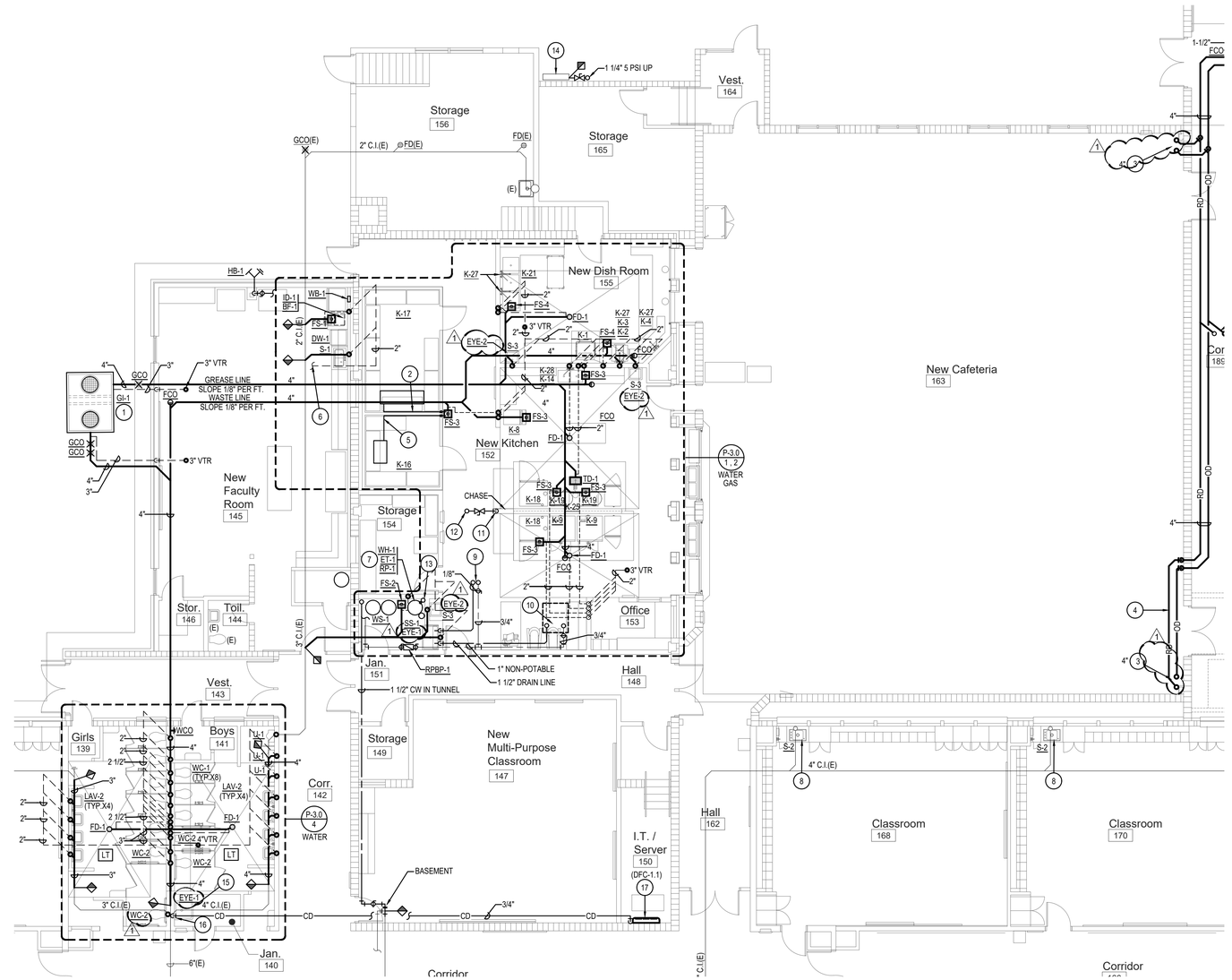
DATE: February 24, 2023
LKV PROJECT #: -
REVISIONS:

DRAWN BY: JM/CD
CHECKED BY: BC

Agency Review

DRAWING NO.

P-2.1



1 Plumbing New Work Plan - Area 'B'

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

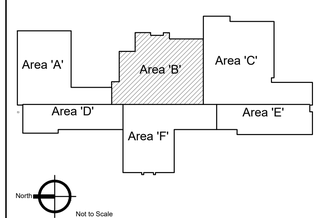
KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. SEE GREASE INTERCEPTOR DETAIL.
2. ROUTE CONDENSATE DRAIN LINE FROM FREEZER EVAPORATIVE COIL TO FLOOR SINK, HEAT TRACE LINE AND WRAP WITH INSULATION. TERMINATE AT FLOOR SINK.
3. CONNECT TO EXISTING ROOF DRAINS ABOVE, SEE ROOF PLAN FOR CONTINUATION.
4. ROUTE ROOF DRAIN AND OVERFLOW DRAIN HIGH THROUGH EXISTING STRUCTURE.
5. ROUTE CONDENSATE DRAIN LINE FROM COOLER EVAPORATIVE COIL TO FLOOR SINK, TERMINATE AT FLOOR SINK.
6. CONNECT NEW VENT PIPE TO EXISTING SAME SIZE OR LARGER VENT PIPE IN THIS AREA. FIELD VERIFY EXACT CONDITIONS.
7. SEE WATER HEATER CONNECTION PIPING DETAIL.
8. INSTALL NEW CLASSROOM SINK AT PREVIOUS SINK LOCATION, PROVIDE NEW TRIM AND RE-CONNECT TO EXISTING WASTE/VENT AND WATER PIPING.
9. CONNECT NON POTABLE AND DRAIN LINE TO ROOF HYDRANT.
10. CONNECT NON POTABLE AND DRAIN LINE TO EVAPORATIVE SECTION OF MAU. SEE DETAIL. SET VALVES AT ACCESSIBLE LOCATION NEAR CEILING.
11. FOR CONTINUATION SEE COOK LINE GAS RISER.
12. FOR CONTINUATION SEE MECHANICAL ROOF PLAN.
13. FOR CONTINUATION SEE MECHANICAL ROOF PLAN AND WATER HEATER DETAIL.
14. EXISTING 5 PSI METER SET, CONTACT LOCAL GAS COMPANY FOR ADDITIONAL LOAD CONNECTION OF 2346.0 MBH.
15. REMOVE EXISTING UTILITY SINK FOR NEW WATER CONNECTION AND RE-INSTALL.
16. ROUTE CONDENSATE DRAIN LINE DOWN IN WALL AND TERMINATE AT RIM OF SINK.
17. CONNECT CONDENSATE DRAIN LINE TO FAN COIL, FAN COIL IS SPECIFIED WITH PUMP. ROUTE LINE OVER TO SERVICE SINK.

ADDENDUM-01 dated 5.11.23

Key Plan



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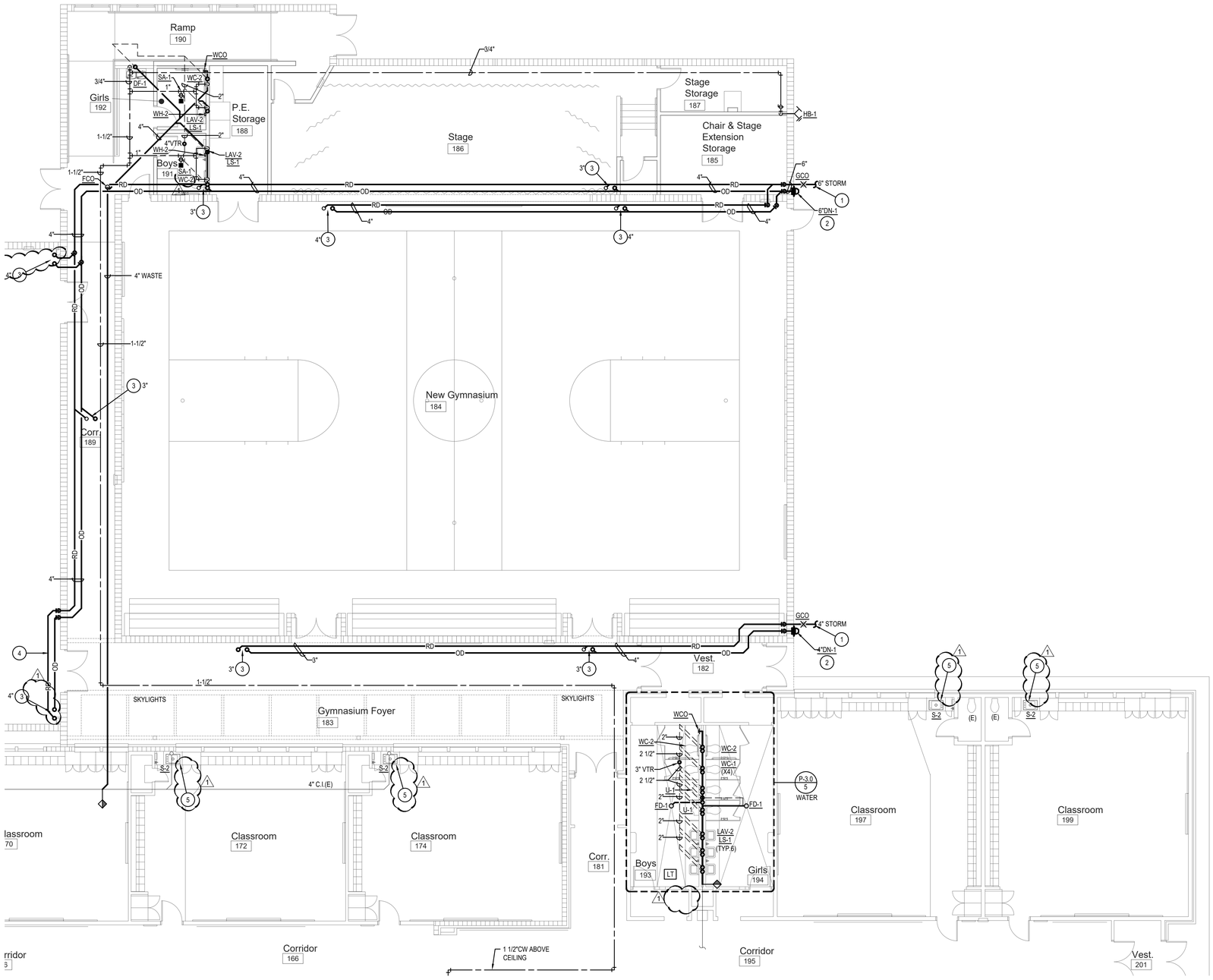
P-2.2



N. 1 Plumbing New Work Plan - Area 'C'

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

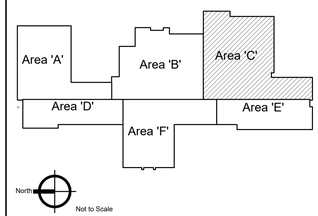
KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. ROUTE ROOF STORM DRAIN 28" (CENTER) BELOW GRADE THOUGH SECTION OF STEM WALL. FOOTING HAS BEEN LOWERED AT THIS LOCATION TO ACCOMMODATE STORM DRAIN. SEE CIVIL SITE PLAN FOR CONTINUATION.
2. TERMINATE OVERFLOW ROOF DRAIN LINE AT SIDE OF BUILDING, 18" AFF. WITH NOZZLE.
3. ROOF DRAINS FROM ABOVE, SEE ROOF PLAN FOR CONTINUATION.
4. ROUTE ROOF DRAIN AND OVERFLOW DRAIN HIGH THROUGH EXISTING STRUCTURE.
5. CONNECT NEW SINK TO EXISTING UTILITIES. PROVIDE NEW TRIM, TYPICAL. (1)

ADDENDUM-01 dated 5.11.23

Key Plan



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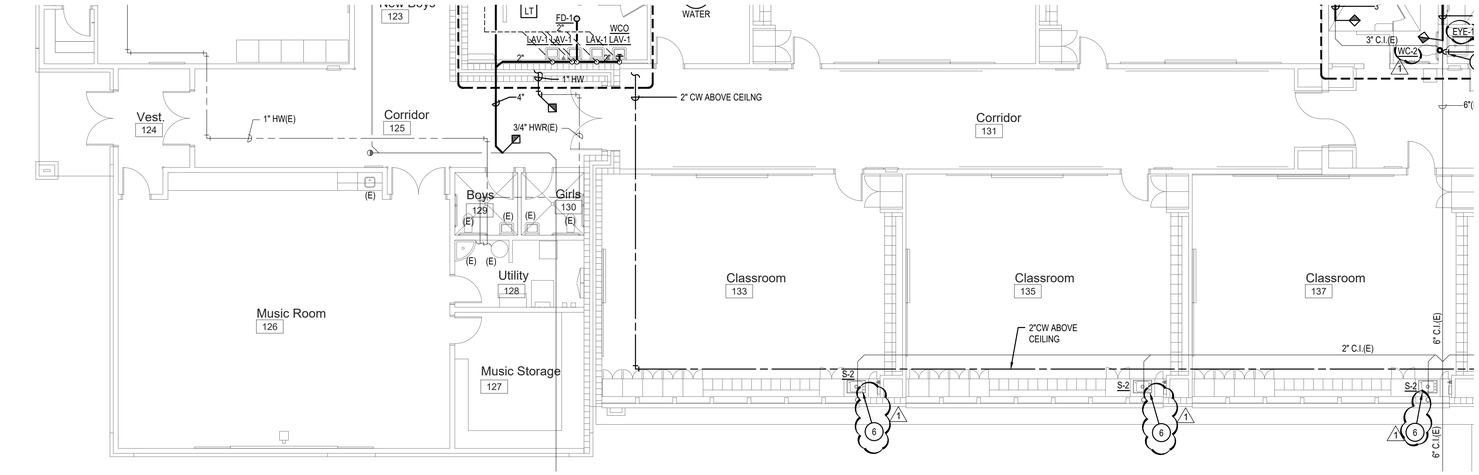
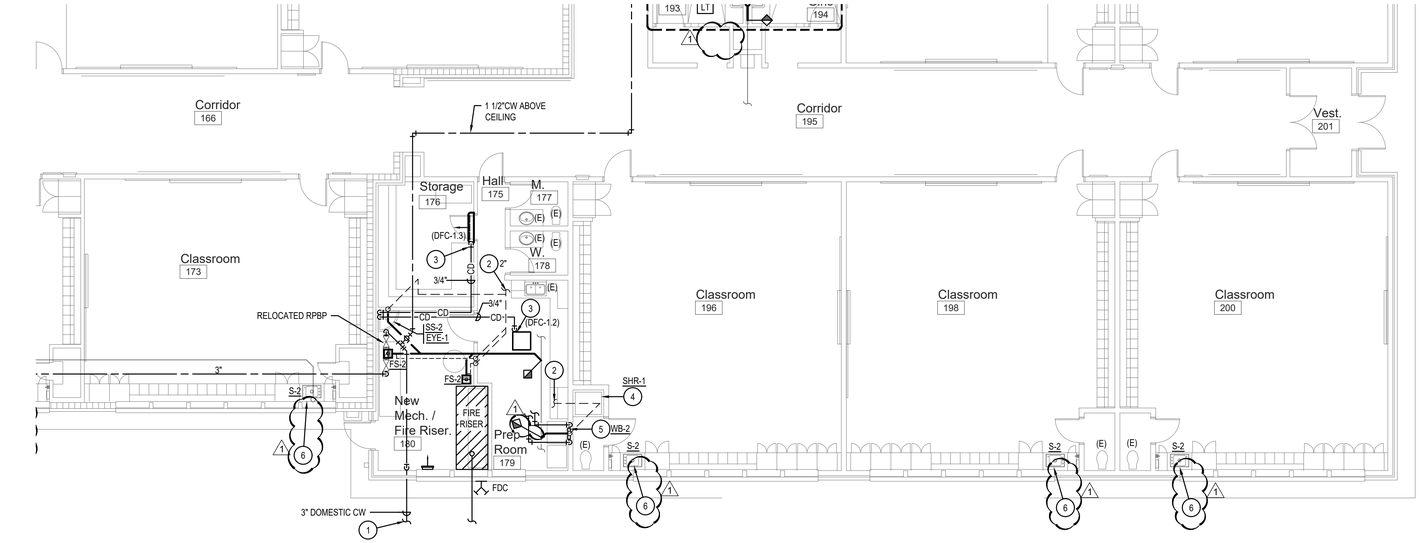
DRAWING NO.

P-2.3



N. 1 Plumbing New Work Plan - Area 'D'

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



N. 2 Plumbing New Work Plan - Area 'E'

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

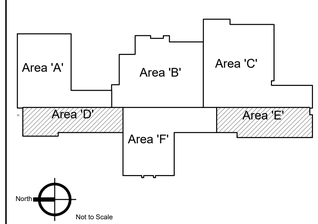
KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. PROVIDE 3" DOMESTIC WATER LINE AND 3" WATER METER, SEE CIVIL SITE PLAN FOR CONTINUATION.
2. CONNECT NEW VENT LINE TO SAME SIZE OR LARGER EXISTING VENT LINE, THIS AREA.
3. ROUTE CONDENSATE DRAIN LINE ABOVE CEILING OVER TO SERVICE SINK, DOWN IN WALL AND TERMINATE AT RIM. USE COPPER PIPING IN FIRE RISER ROOM AND FIRE CAULK ALL PENETRATIONS. UNIT IS SPECIFIED WITH PUMP.
4. PROVIDE NEW SHOWER INSERT, VALVING AND TRIM. RE-USE EXISTING WASTE, VENT AND WATER SERVICES AND CONNECT.
5. PROVIDE CLOTHES WASHER CONNECTION, NEW WASTE - VENT AND CW - HW CONNECTIONS. CONNECT TO NEAREST SERVICE, FIELD VERIFY EXACT CONDITIONS.
6. CONNECT NEW SINK TO EXISTING UTILITIES. PROVIDE NEW TRIM, TYPICAL. (1)

ADDENDUM-01 dated 5.11.23

Key Plan



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Agency Review

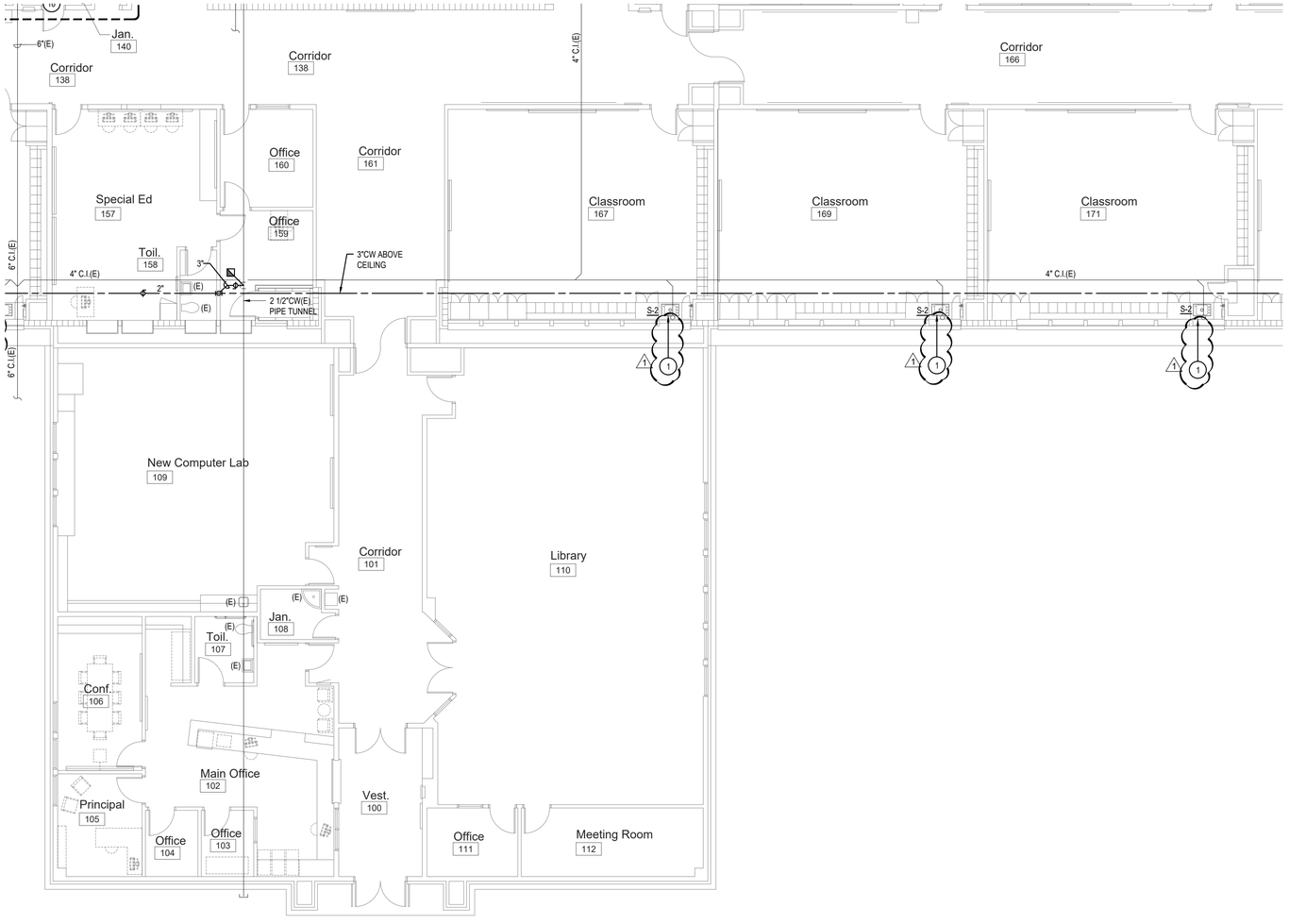
DRAWING NO.

P-2.4

KEYED NOTES:

(#) SYMBOL USED FOR NOTE CALLOUT.

1. CONNECT NEW SINK TO EXISTING UTILITIES. PROVIDE NEW TRIM, TYPICAL.

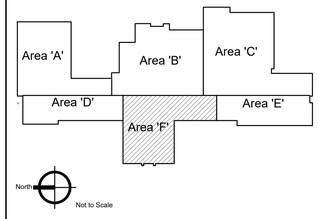


N. 1 Plumbing New Work Plan - Area 'F'

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

ADDENDUM-01 dated 5.11.23

Key Plan



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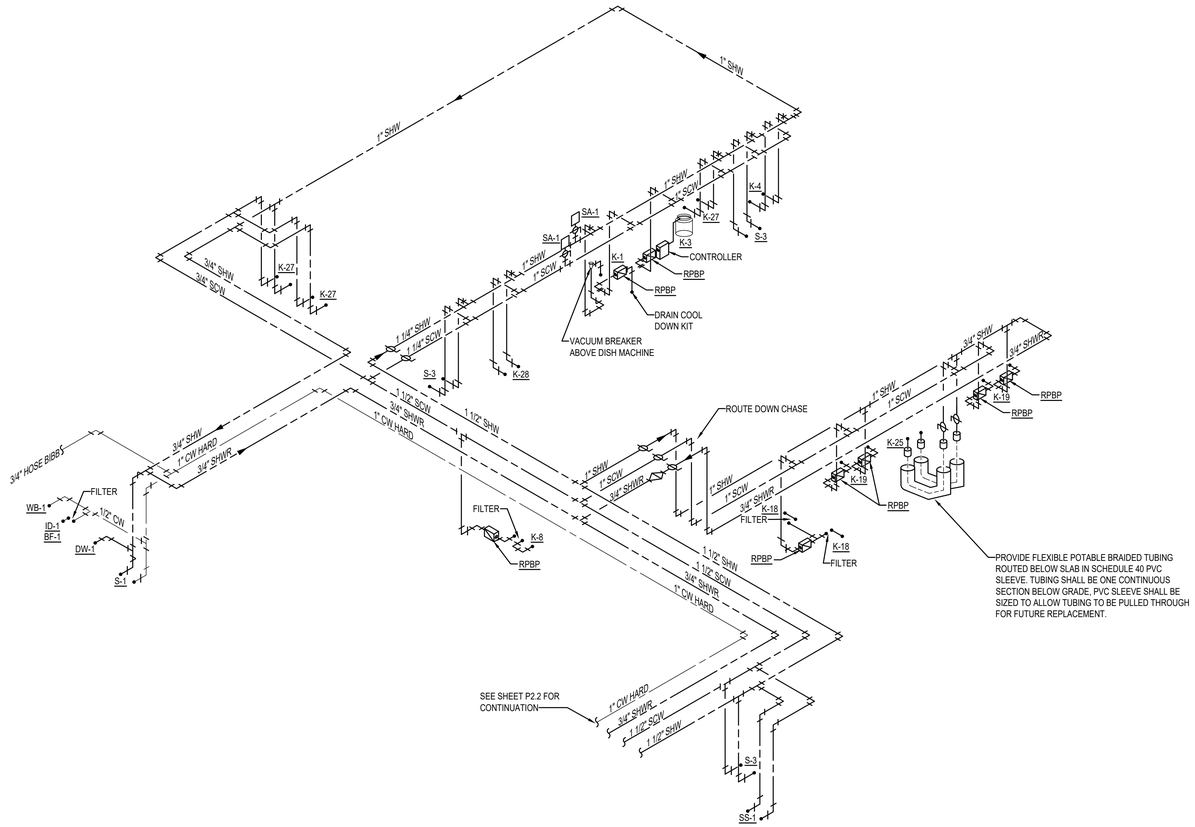
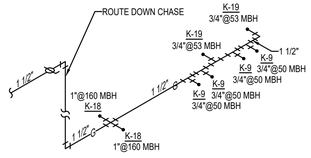
DRAWING NO.

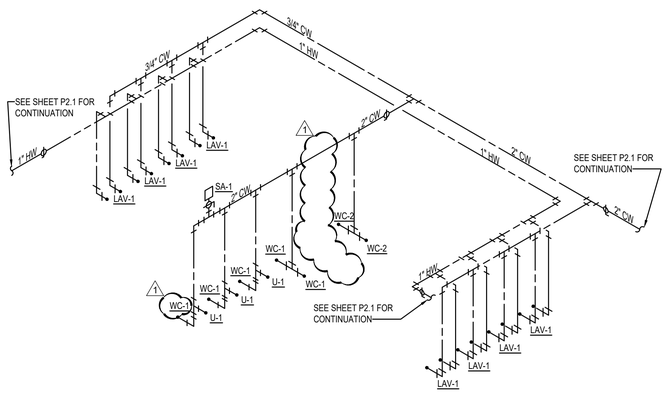
P-2.5



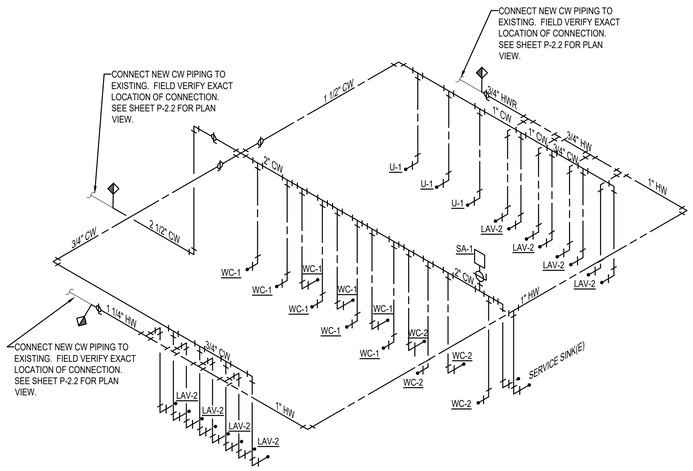
1 KITCHEN WATER RISER DIAGRAM
NOT TO SCALE



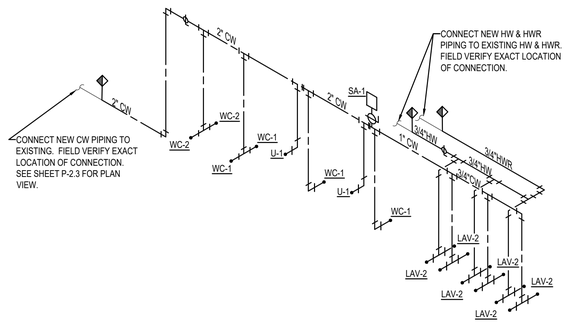
2 COOK LINE GAS RISER DIAGRAM
NOT TO SCALE



3 RESTROOM WATER RISER DIAGRAM
NOT TO SCALE



4 RESTROOM WATER RISER DIAGRAM
NOT TO SCALE



5 RESTROOM WATER RISER DIAGRAM
NOT TO SCALE

ADDENDUM-01 dated 5.11.23

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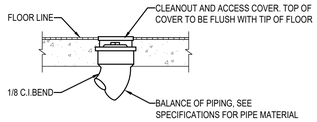
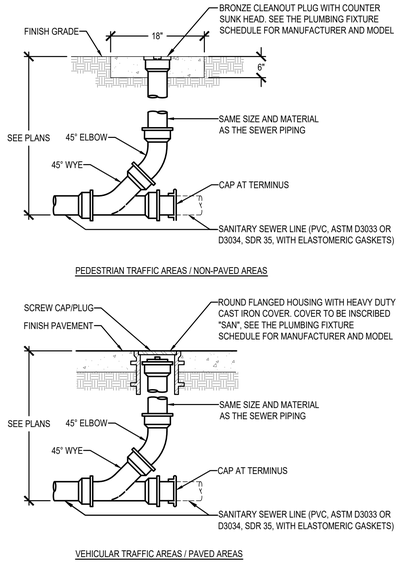
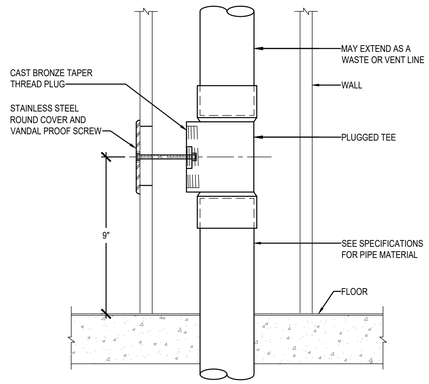


NOTE:
1. CLEANOUTS SHALL BE PROVIDED AT EACH HORIZONTAL DRAINAGE PIPE AT ITS UPPER TERMINAL, AND EACH RUN OF PIPING WHICH IS MORE THAN 100 FEET, AND SHALL BE PROVIDED FOR EACH 100 FEET DEVELOPED LENGTH, OR FRACTION THEREOF OF SUCH PIPING. AN ADDITIONAL CLEANOUT SHALL BE PROVIDED FOR EACH AGGREGATE HORIZONTAL CHANGE OF DIRECTION EXCEEDING ONE HUNDRED THIRTY-FIVE DEGREES, PER APPLICABLE PLUMBING CODE. THIS SHALL BE PROVIDED REGARDLESS OF WHAT IS SHOWN ON THE DRAWINGS.

1 FLOOR CLEANOUT (FCO) DETAIL
NOT TO SCALE

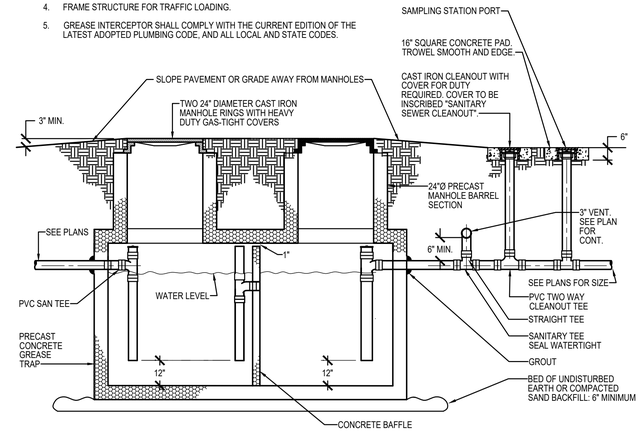


2 GRADE CLEANOUT (GCO) DETAIL
NOT TO SCALE



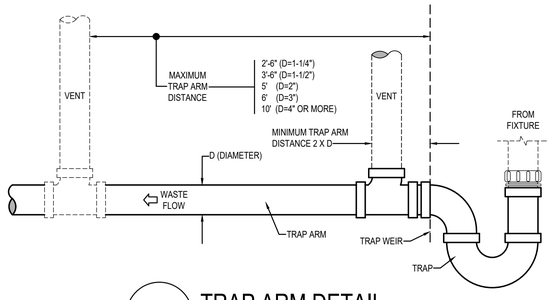
3 WALL CLEANOUT (WCO) DETAIL
NOT TO SCALE

NOTES:
1. ALL DIMENSIONS SHOWN SHALL BE VERIFIED WITH LOCAL AUTHORITY HAVING JURISDICTION.
2. INTERCEPTOR EXCEEDING 6'-6" IN DEPTH MUST BE CONSTRUCTED OF REINFORCED CONCRETE.
3. ALL SURFACE WATER TO DRAIN AWAY FROM INTERCEPTOR.
4. FRAME STRUCTURE FOR TRAFFIC LOADING.
5. GREASE INTERCEPTOR SHALL COMPLY WITH THE CURRENT EDITION OF THE LATEST ADOPTED PLUMBING CODE, AND ALL LOCAL AND STATE CODES.

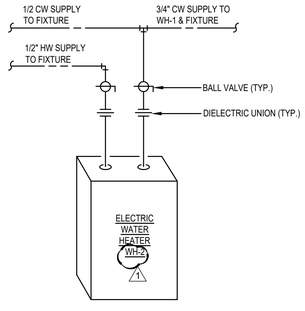


4 GREASE INTERCEPTOR DETAIL (1500 GALLONS)
NOT TO SCALE

NOTES:
1. MAINTAIN ONE-FOURTH (1/4) INCH PER FOOT SLOPE.
2. THE DEVELOPED LENGTH BETWEEN THE TRAP OF A WATER CLOSET OR SIMILAR FIXTURE (MEASURED FROM THE TOP OF THE CLOSET FLANGE TO THE INNER EDGE OF THE VENT) AND IT'S VENT SHALL NOT EXCEED SIX (6) FEET.
3. ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST ADOPTED PLUMBING CODE, AND ALL LOCAL AND STATE CODES.

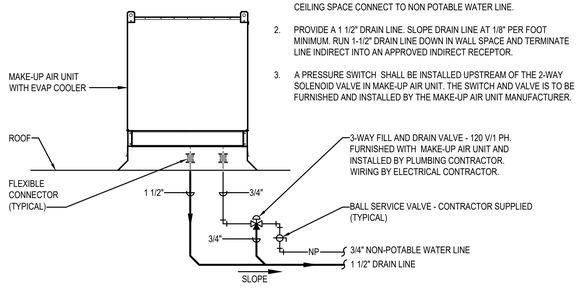


5 TRAP ARM DETAIL
NOT TO SCALE

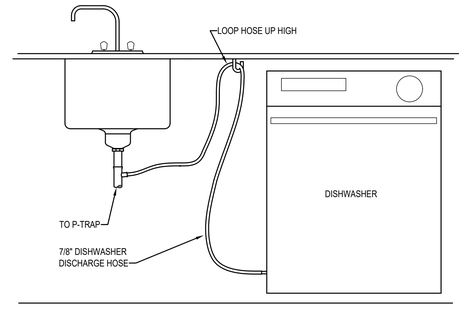


6 POINT OF USE WATER HEATER DETAIL
NOT TO SCALE

NOTES:
1. PROVIDE A 3/4-INCH NON-POTABLE WATER LINE. EXTEND LINE DOWN IN CEILING SPACE CONNECT TO NON POTABLE WATER LINE.
2. PROVIDE A 1 1/2" DRAIN LINE. SLOPE DRAIN LINE AT 1/8" PER FOOT MINIMUM. RUN 1-1/2" DRAIN LINE DOWN IN WALL SPACE AND TERMINATE LINE INDIRECT INTO AN APPROVED INDIRECT RECEPTOR.
3. A PRESSURE SWITCH SHALL BE INSTALLED UPSTREAM OF THE 2-WAY SOLENOID VALVE IN MAKE-UP AIR UNIT. THE SWITCH AND VALVE IS TO BE FURNISHED AND INSTALLED BY THE MAKE-UP AIR UNIT MANUFACTURER.



7 MAKE-UP AIR EVAP COOLER PIPING DETAIL
NOT TO SCALE



8 DISHWASHER CONNECTION DETAIL
NOT TO SCALE

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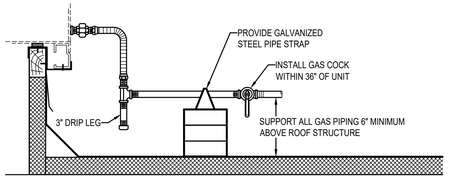
NOTES:
1. INSTALL FLEX CONNECTION AT ALL ROOF TOP UNITS WHICH HAVE SPRING ISOLATION CURBS (36" MAXIMUM).
2. INSTALL SOLID PIPE CONNECTION TO ALL ROOF TOP UNITS WHICH DO NOT HAVE SPRING ISOLATION CURBS.
3. PAINT PIPE WITH RUST RESISTANT PRIMER, RED OR GRAY. SHERWIN WILLIAMS PRO INDUSTRIAL DTM OR APPROVED EQUAL.

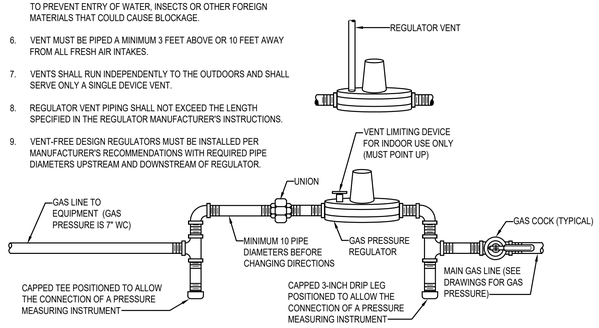


APPROVED PIPE SUPPORT SYSTEMS:
- MIRO MODEL 1.5 WITH SPACERS
- ADVANCED SUPPORT PRODUCTS
- VERSABLOCK BY FREEDOM INC

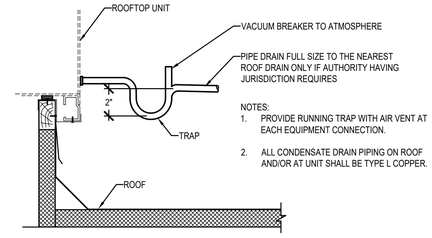
PIPE SUPPORT REQUIREMENTS	
SIZE OF PIPE	SUPPORT REQUIRED
1/2"	6' O.C.
3/4" - 1"	8' O.C.
1-1/4" OR LARGER	10' O.C.

1 ROOFTOP UNIT - GAS PIPING DETAIL
NOT TO SCALE

NOTES:
1. VENT REGULATORS PER MANUFACTURER'S AND LOCAL GAS COMPANY'S REQUIREMENTS.
2. DO NOT REDUCE THE VENT PIPE SIZE FROM THE REGULATOR.
3. TO LIMIT THE CONSEQUENCES OF RAIN, SNOW OR DEBRIS GETTING INTO THE VENT, ALWAYS TURN THE OUTLET OF THE VENT DOWN AND ABOVE POTENTIAL WATER OR SNOW LINES.
4. PROVIDE A BUG SCREEN ON THE VENT OUTLET TO DETER INSECTS FROM NESTING IN THE LINE. NEVER PAINT OVER THE BUG SCREEN.
5. A VENT LINE PROTECTOR MAY BE USED IN OUTDOOR APPLICATIONS TO PREVENT ENTRY OF WATER, INSECTS OR OTHER FOREIGN MATERIALS THAT COULD CAUSE BLOCKAGE.
6. VENT MUST BE PIPED A MINIMUM 3 FEET ABOVE OR 10 FEET AWAY FROM ALL FRESH AIR INTAKES.
7. VENTS SHALL RUN INDEPENDENTLY TO THE OUTDOORS AND SHALL SERVE ONLY A SINGLE DEVICE VENT.
8. REGULATOR VENT PIPING SHALL NOT EXCEED THE LENGTH SPECIFIED IN THE REGULATOR MANUFACTURER'S INSTRUCTIONS.
9. VENT-FREE DESIGN REGULATORS MUST BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS WITH REQUIRED PIPE DIAMETERS UPSTREAM AND DOWNSTREAM OF REGULATOR.



2 GAS PRESSURE REGULATOR DETAIL
NOT TO SCALE



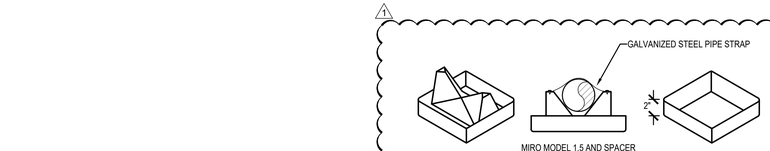
NOTES:
1. PROVIDE RUNNING TRAP WITH AIR VENT AT EACH EQUIPMENT CONNECTION.
2. ALL CONDENSATE DRAIN PIPING ON ROOF AND/OR AT UNIT SHALL BE TYPE L COPPER.

APPROVED PIPE SUPPORT SYSTEMS:
- MIRO MODEL 1.5 WITH SPACERS
- ADVANCED SUPPORT PRODUCTS
- VERSABLOCK BY FREEDOM INC.

PIPE SUPPORT REQUIREMENTS	
SIZE OF PIPE	SUPPORT REQUIRED
1/2"	6' O.C.
3/4" - 1"	8' O.C.
1-1/4" OR LARGER	10' O.C.

3 ROOFTOP UNIT - CONDENSATE DRAIN DETAIL
NOT TO SCALE

1



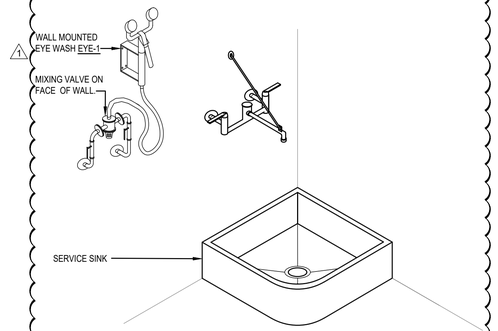
NOTE: ALL GAS PIPING SHALL BE SUPPORTED 6" MINIMUM ABOVE ROOF STRUCTURE.

APPROVED PIPE SUPPORT SYSTEMS:
- MIRO MODEL 1.5 WITH SPACERS
- ADVANCED SUPPORT PRODUCTS
- VERSABLOCK BY FREEDOM INC

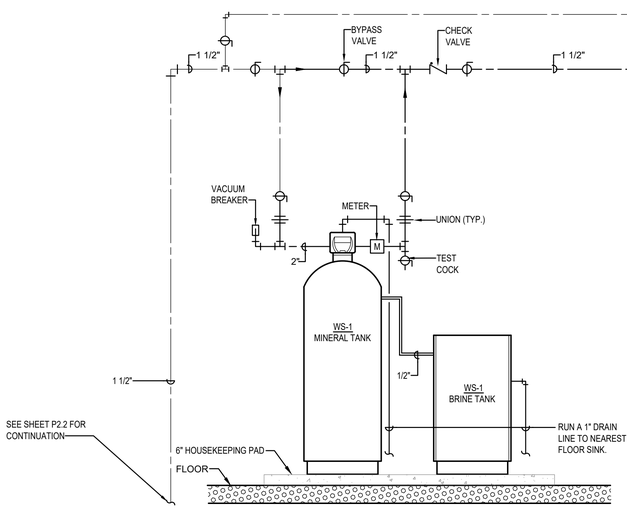
PIPE SUPPORT REQUIREMENTS	
SIZE OF PIPE	SUPPORT REQUIRED
1/2"	6' O.C.
3/4" - 1"	8' O.C.
1-1/4" OR LARGER	10' O.C.

6 ROOF MOUNTED PIPING DETAIL
NOT TO SCALE

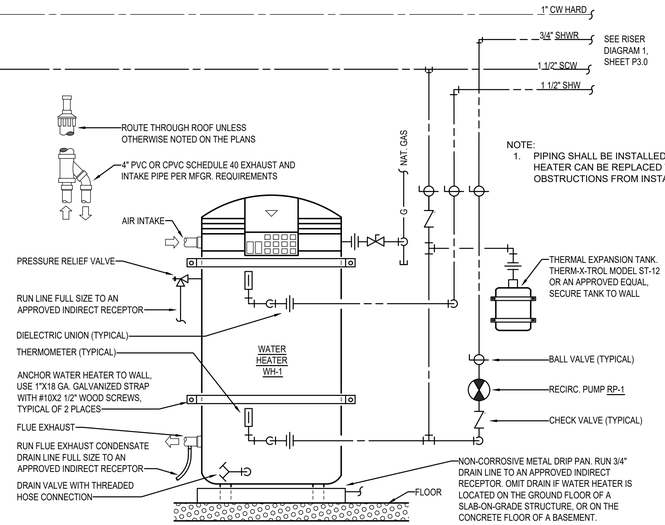
1



7 SERVICE SINK DETAIL
NOT TO SCALE



4 WATER SOFTENER PIPING DETAIL
NOT TO SCALE

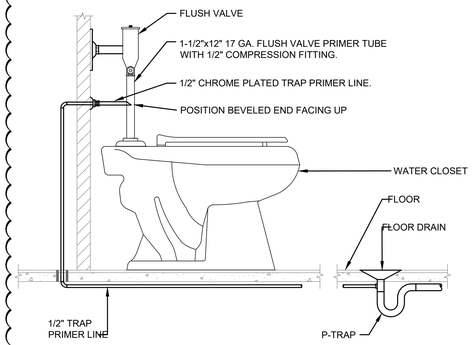


NOTE:-
1. PIPING SHALL BE INSTALLED SUCH THAT WATER HEATER CAN BE REPLACED WITHOUT ANY OBSTRUCTIONS FROM INSTALLED PIPING.

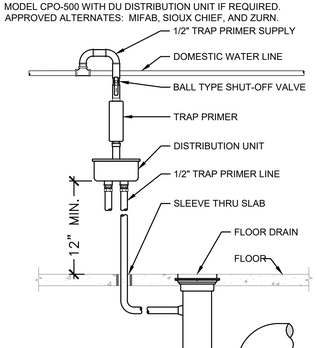
5 HIGH EFFICIENCY WATER HEATER PIPING DETAIL
NOT TO SCALE

1

FLUSH VALVE PRIMER NOTES:
1. THE FLUSH VALVE PRIMER IS DESIGNED TO PRIME ONE FLOOR DRAIN TRAP AT A DISTANCE NOT TO EXCEED 20 FEET FROM POINT OF INSTALLATION.
2. THE FLUSH VALVE PRIMER SHALL BE INSTALLED WITH A VACUUM BREAKER.
3. FLUSH VALVE PRIMER IS INTENDED FOR USE WITH WATER CLOSETS CONSUMING 3.5 TO 1.0 GAL/FLUSH.
4. TRAP PRIMER SHALL BE PRECISION PLUMBING PRODUCTS MODEL FVP-1VB WITH VACUUM BREAKER. APPROVED ALTERNATES: MIFAB, SIOUX CHIEF, AND ZURN.



PRESSSURE ACTIVATED PRIMER NOTES:
1. THE PRIMING VALVE MUST BE INSTALLED ON A FRESH COLD WATER LINE OF 1/2" TO 1-1/2" DIAMETER.
2. DISTRIBUTION UNIT MUST BE INSTALLED LEVEL WITH AN ACCESS DOOR FOR PERIODIC INSPECTION.
3. DO NOT SUBJECT TRAP PRIMER VALVE TO ROUGH-IN PRESSURE TEST.
4. DISTANCE FROM DISTRIBUTION UNIT TO FLOOR MUST BE 12" FOR EVERY 20' HORIZONTALLY.
5. TRAP PRIMER SHALL BE PRECISION PLUMBING PRODUCTS MODEL CPO-500 WITH DU DISTRIBUTION UNIT IF REQUIRED. APPROVED ALTERNATES: MIFAB, SIOUX CHIEF, AND ZURN.



8 TRAP PRIMER CONNECTION DETAIL
NOT TO SCALE

ADDENDUM-01 dated 5.11.23

LKV ARCHITECTS
2400 E RIVERWALK DRIVE
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Project No. 22-104

PROFESSIONAL ENGINEER LICENSED 16683 5/11/2023 STATE OF IDAHO CHRISTOPHER DYKE

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: JM/CD
CHECKED BY: BC

Agency Review

DRAWING NO.
P-4.1

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE DESCRIPTION	CONNECTION SIZE					MANUFACTURER / MODEL NUMBER / DESCRIPTION / ADDITIONAL COMMENTS
		WASTE	VENT	TRAP	CW	HW	
BF-1	BACK FLOW DEVICE FOR COFFEE MAKERS AND ICE AND WATER DISPENSERS.	--	--	--	1/2	--	WATTS SD-3 DUAL CHECK VALVE
DF-1	DRINKING FOUNTAIN WITH BOTTLE FILLING STATION (INTERIOR DUAL BUBBLERS) (ELECTRIC WATER COOLER) (ADA COMPLIANT) (HIGH/LOW)	1 1/2	1 1/2	1 1/2	1/2	--	MODEL EZSTL8WSVRSK (NON-FILTERED) BI-LEVEL ADA COOLER WITH BOTTLE FILLING STATION FURNISHED WITH FLEXI-GUARD SAFETY BUBBLER. BUBBLER ACTIVATED BY PUSHBAR. BOTTLE FILLER ACTIVATED BY ELECTRONIC SENSOR WITH AUTOMATIC 30-SECOND SHUT-OFF TIMER. 115 VOLT, 5.0 AMPS, 60 HERTZ. PROVIDE WITH JAY R. SMITH 0834 FLOOR MOUNTED SUPPORT CARRIER. OPTION - CANE APRON TO BE INSTALLED ON HIGH COOLER.
DN-1	DOWN SPOUT NOZZLE (CAST IRON)	SEE PLANS	--	--	--	--	JAY R. SMITH FIGURE NUMBER 1770-NB CAST IRON NOZZLE WITH WALL FLANGE, NICKEL-BRONZE FINISH.
1 DW-1	DISHWASHER	7/8	--	--	--	1/2	PROVIDED BY OTHERS, CONNECT WASTE TO SINK TAILPIECE. SEE DISHWASHER CONNECTION DETAIL.
ET-1	EXPANSION TANK	--	--	--	3/4	--	AMTROL THERM-X-TROL ST-12, OR APPROVED EQUAL. NON-ASME SERIES THERMAL EXPANSION ABSORBER, ANTI-MICROBIAL LINER, AND 5 YEAR WARRANTY.
EYE-1	EMERGENCY EYE WASH (WALL MOUNTED w/ RECOIL HOSE) (USED WITH SERVICE SINK)	--	--	--	1/2	1/2	ACORN SAFETY MODEL 9406-CH12-BFP, WALL MOUNTED WITH DUAL 45° ANGLED HEADS AND RECOIL HOSE, PROVIDE WITH FLIP TOP DUST COVERS, UNIVERSAL EMERGENCY SIGN. DOUBLE CHECK VALVE. STAINLESS STEEL 90° WITH SHEET NIPPLE, AND ACORN MODEL ET71-1-BVS-OTG LEAD-FREE EMERGENCY THERMOSTATIC MIXING VALVE WITH 1/2" NPT INLETS & OUTLET, 4 GPM @ 5 PSID. PROVIDE WITH LOCKABLE INLET BALL VALVES, STANDARD OUTLET TEMPERATURE GAUGE, AND SELECTABLE TEMPERATURE RANGE FROM 60°F TO 95°F.
1 EYE-2	EMERGENCY EYE WASH (FAUCET MOUNTED)	--	--	--	--	--	HAWS MODEL 7620 AXION EYEPOD FAUCET-MOUNTED EYEWASH WITH INTERNAL THERMOSTATIC SHUT-OFF VALVE. EYEWASH IS ACTIVATED BY ROTATING HEAD 180°F IN EITHER DIRECTION. EYEWASH COMES WITH A STANDARD 55/64-27 THREAD STAINLESS STEEL FAUCET CONNECTION, ALONG WITH FOUR ADDITIONAL ADAPTORS. PROVIDE WITH OPTIONAL 1.0 GPM LAMINAR FLOW FAUCET OUTLET AND UNIVERSAL EYEWASH SIGN. ANSI Z358.1 AND OSHA COMPLIANT.
FCO	FLOOR CLEANOUT	SEE PLANS	--	--	--	--	JAY R. SMITH 4020 SERIES WITH ADJUSTABLE, ROUND NICKEL BRONZE TOP AND ABS PLUG.
FD-1	FLOOR DRAIN (PVC BODY) (CONCRETE FLOOR)	2	2	2	--	--	SIOUX CHIEF SERIES NUMBER 832-2PNR, POST- CONSTRUCTION LEVELING FLOOR DRAIN, NO-HUB OUTLET, 6-1/2" ROUND, ADJUSTABLE NICKEL BRONZE STRAINER AND TRAP PRIMER PORT. INSTALL TOP OF DRAIN 1/8" BELOW FINISH FLOOR AND CAULK EDGE.
FS-1	FLOOR SINK (6" DEEP) (HALF GRATE, FOOT TRAFFIC RATED)	2	2	2	--	--	JAY R. SMITH FIGURE NUMBER 3100Y-12, CAST IRON RECEPTOR, ALUMINUM DOME STRAINER, NICKEL BRONZE GRATE, AND TRAP PRIMER. INSTALL TOP OF SINK 1/8" BELOW FINISH FLOOR AND CAULK EDGE.
FS-2	FLOOR SINK (10" DEEP) (HALF GRATE, FOOT TRAFFIC RATED)	4	2	4	--	--	JAY R. SMITH FIGURE NUMBER 3160Y-12, CAST IRON RECEPTOR, ALUMINUM DOME STRAINER, NICKEL BRONZE GRATE, AND TRAP PRIMER. INSTALL TOP OF SINK 1/8" BELOW FINISH FLOOR AND CAULK EDGE.
FS-3	FLOOR SINK (6" DEEP) (HALF GRATE, FOOT TRAFFIC RATED) COMMERCIAL KITCHEN, BAR, OR PROCESSING LOCATIONS	2	2	2	--	--	JAY R. SMITH FIGURE NUMBER 3002Y-12, STAINLESS STEEL RECEPTOR, DOME STRAINER AND GRATE WITH TRAP PRIMER. INSTALL TOP OF SINK 1/8" BELOW FINISH FLOOR AND CAULK EDGE.
FS-4	FLOOR SINK (10" DEEP) (HALF GRATE, FOOT TRAFFIC RATED) COMMERCIAL KITCHEN, BAR, OR PROCESSING LOCATIONS	4	2	4	--	--	JAY R. SMITH FIGURE NUMBER 3004Y-12, STAINLESS STEEL RECEPTOR, DOME STRAINER AND GRATE WITH TRAP PRIMER. INSTALL TOP OF SINK 1/8" BELOW FINISH FLOOR AND CAULK EDGE.
GCO	GRADE CLEANOUT (NON-PAVED AREAS)	SEE PLANS	--	--	--	--	JAY R. SMITH 4220 SERIES, ROUND EXTRA HEAVY DUTY CAST IRON TOP. FURNISH WITH WITH ABS PLUG. COVER TO BE INSCRIBED "SAN".
GCO	GRADE CLEANOUT (PAVED AREAS) (VEHICULAR TRAFFIC)	SEE PLANS	--	--	--	--	JAY R. SMITH 4250 SERIES, ROUND FLANGED HOUSING WITH HEAVY DUTY CAST IRON COVER. FURNISH WITH ABS PLUG. COVER TO BE INSCRIBED "SAN".
GI-1	GREASE INTERCEPTOR (1500 GALLONS)	4	3	--	--	--	PRE-CAST CONCRETE, 1500 GALLON CAPACITY, GREASE INTERCEPTOR. SEE DRAWING FOR DETAILS. NO SPLIT DESIGN VAULTS WITH GASKETS BELOW FLUID LEVEL ALLOWED.
HB-1	HOSE BIBB (EXTERIOR) (NON-FREEZE)	--	--	--	3/4	--	WOODFORD MODEL 67 - EXPOSED STYLE WITH MODEL 50HA BACKFLOW PREVENTER, 3/4" INLET , AND CHROME PLATED. PROVIDE WITH TEE KEY AND INSTALL AT 18" ABOVE FINISH GRADE.
ID-1	ICE AND WATER DISPENSER	INDIRECT FULL SIZE TO FLOOR SINK			1/2		PROVIDED BY OTHERS, ROUGH IN AND CONNECTED BY PLUMBING CONTRACTOR. PROVIDE AND INSTALL WITH BF-1.
LAV-1	MOTION SENSOR LAVATORY (WALL MOUNTED) (ELECTRIC OPERATED) (ADA COMPLIANT)	1 1/2	1 1/2	1 1/4	1/2	1/2	KOHLER KINGSTON MODEL K-2005: VITREOUS CHINA, WALL MOUNTED, HOLES ON 4" CENTERS, AND GRID STRAINER. SLOAN OPTIMA ELECTRONIC HAND WASHING FAUCET MODEL ETF-600 WITH PLUG-IN TRANSFORMER (120 VAC/24 VAC). PROVIDE WITH JAY R. SMITH FIGURE NUMBER 0700-Z SUPPORT WITH CONCEALED ARMS. PROVIDE WITH LS-1 LAV SHIELD.
LAV-2	MOTION SENSOR LAVATORY (WALL MOUNTED) (ELECTRIC OPERATED) (ADA COMPLIANT)	1 1/2	1 1/2	1 1/4	1/2	1/2	KOHLER KINGSTON MODEL K-2005: VITREOUS CHINA, WALL MOUNTED, HOLES ON 4" CENTERS, AND GRID STRAINER. SLOAN OPTIMA ELECTRONIC HAND WASHING FAUCET MODEL ETF-600 WITH PLUG-IN TRANSFORMER (120 VAC/24 VAC). WATTS SERIES LFUSG-B LEAD-FREE, THERMOSTATIC MIXING VALVE, ASSE STANDARD 1070 LISTED, BRONZE BODY, INTEGRAL CHECK VALVES, AND SELECTABLE TEMPERATURE RANGE FROM 80°F TO 120°F.PROVIDE WITH JAY R. SMITH FIGURE NUMBER 0700-Z SUPPORT WITH CONCEALED ARMS. PROVIDE WITH LS-1 LAV SHIELD.
LS-1	LAVATORY SHIELD (WALL MOUNTED SHIELD FOR CONCEALING PIPING, VALVES, AND INSTANTANEOUS WATER HEATERS)	--	--	--	--	--	TRUEBRO "LAV SHIELD" ADA COMPLIANT, TOTAL ENCLOSURE. SINGLE-PIECE CONSTRUCTION, SLOAN OPTISHIELD ETF-529, OR APPROVED EQUAL.
OD-1	OVERFLOW ROOF DRAIN (METAL GRATE)	SEE PLANS	--	--	--	--	JAY R. SMITH FIGURE NUMBER 1070Y GENERAL PURPOSE DRAIN WITH LOW PROFILE DOME. PROVIDE WITH SUMP RECEIVER, UNDERDECK CLAMP, CAST IRON DOME, INTERNAL DAM STANDPIPE, AND RAIN SHIELD.
RD-1	ROOF DRAIN (LOW PROFILE DOME STYLE) (METAL GRATE)	SEE PLANS	--	--	--	--	JAY R. SMITH FIGURE NUMBER 1010Y GENERAL PURPOSE DRAIN WITH LOW PROFILE DOME. PROVIDE WITH SUMP RECEIVER, UNDERDECK CLAMP, AND CAST IRON DOME.
RH-1	ROOF HYDRANT (NON-FREEZE) (DRAIN LINE REQUIRED)	--	--	--	3/4	--	WOODFORD MODEL RHY2-MS NON-FREEZE STYLE ROOF HYDRANT WITH 3/4" HOSE CONNECTION AND INTEGRAL DOUBLE CHECK BACKFLOW PREVENTER. REQUIRES 1/8" DRAIN LINE PIPED TO APPROVED INTERCEPTOR.
RP-1	RECIRCULATION PUMP (HOT WATER RETURN SYSTEM) (MEDIUM SIZED SYSTEM)	--	--	--	--	3/4	BELL AND GOSSETT BRONZE MODEL NBF-22, 115 VOLT, 0.8 AMPS, 92 WATTS, AND SHALL PROVIDE 7 GPM AT 10 FEET HEAD. INCLUDE 7-DAY PROGRAMMABLE ELECTRONIC TIME CLOCK WITH BATTERY BACKUP, INTERMATIC MODEL GM40AVE-RD89. APPROVED ALTERNATE: ARMSTRONG, TACO, GRUNDFOS.
RPBP-1	REDUCED PRESSURE BACKFLOW PREVENTER NON POTABLE	INDIRECT			1	--	WATTS SERIES LF009 LEAD-FREE REDUCED PRESSURE ZONE ASSEMBLY WITH QUARTER-TURN BALL VALVES, STRAINER, AND AIR GAP. CAST COPPER BODY CONSTRUCTION - 1/2" THRU 2".
S-1	SINK - DOUBLE COMPARTMENT (14" X 14" X 6 1/2" - EACH) (ADA COMPLIANT)	2	1 1/2	1 1/2	1/2	1/2	ELKAY LUSTERTONE MODEL LRAD331965: 6-1/2" DEEP, STAINLESS STEEL SINK. PROVIDE AND INSTALL ELKAY MODEL LK3001CR SINGLE LEVER CHROME FAUCET WITH SWING SPOUT AND HOSE SPRAY, ELKAY MODEL LK35 STAINLESS STEEL STRAINER BASKET AND TAILPIECE, AND WATTS SERIES LFUSG-B LEAD-FREE, THERMOSTATIC MIXING VALVE, ASSE STANDARD 1070 LISTED, BRONZE BODY, INTEGRAL CHECK VALVES, AND SELECTABLE TEMPERATURE RANGE FROM 80°F TO 120°F.
S-2	SINK - CLASSROOM WITH BUBBLER (22"X19 1/2"X5 1/2") (ADA COMPLIANT) (SEE PLANS FOR LEFT AND RIGHT CONFIGURATIONS)	2	1 1/2	1 1/2	1/2	1/2	JUST CLASSROOM SINK # CRA-ADA-1725-A-GR (SEE PLANS FOR LEFT AND RIGHT LEDGES)(2 HOLES ON 4" CENTERS AND 1 BUBBLE HOLE FRONT OPPOSITE SIDE) 5 1/2" DEEP STAINLESS STEEL SINK, J-ADA-35 STAINLESS STEEL DRAIN WITH STRAINER AND STOPPER, CHICAGO FAUCETS MODEL 2302-ABCP/ SINGLE LEVER FAUCET AND SWING SPOUT, CHICAGO FAUCETS MODEL 748-665FHABCP/ BUBBLER, JUST MODEL JSB-10-VR-FLX BUBBLER. SWING SPOUT IS TO BE LOCKED IN PLACE.
S-3	SINK - KITCHEN HANDWASH (19" X 12" X 6") (WALL MOUNTED)	2	1 1/2	1 1/2	1/2	1/2	ELKAY HANDWASH SINK MODEL CHS1716C: 6" DEEP, WALL MOUNTED, STAINLESS STEEL SINK. PROVIDE AND INSTALL ELKAY MODEL LK940GN04L2H HIGH GOOSENECK SPOUT FAUCET WITH 8" CENTERS AND LEVER HANDLES, ELKAY MODEL LK8 GRID STRAINER AND TAILPIECE, ELKAY MODEL LK500 P-TRAP WITH CLEANOUT PLUG, AND WATTS SERIES LFUSG-B LEAD-FREE, THERMOSTATIC MIXING VALVE, ASSE STANDARD 1070 LISTED, BRONZE BODY, INTEGRAL CHECK VALVES, AND SELECTABLE TEMPERATURE RANGE FROM 80°F TO 120°F. PROVIDE WITH FAUCET-MOUNTED EYEWASH EYE-2.
1 SA-1	SHOCK ABSORBER (WATER HAMMER ARRESTOR)	--	--	--	--	--	JAY R. SMITH FIGURE NUMBER 5005 TO 5050, SIZED PER FIXTURES SERVED. PROVIDE AN ACCESS PANEL AND A BALL TYPE SHUT-OFF VALVE UPSTREAM OF SHOCK ABSORBER.
SHR-1	SHOWER (42" X 38" X 79") (INSERT STYLE - TRANSFER) (ADA COMPLIANT)	2	1 1/2	2	1/2	1/2	BEST BATH SYSTEMS MODEL LCS4238AST, ONE PIECE, FIBERGLASS SHOWER WITH 1/2" THRESHOLD (CLASSIC TILE FINISH). MODULE SHALL BE CONSTRUCTED OF GELCOAT/FIBERGLASS WITH FULL INTEGRAL PLYWOOD BACKING IN ALL THE WALLS FOR STRENGTH AND CUSTOMIZED INSTALLATION OF ACCESSORIES. PRE-LEVELED FLOOR FOR EASY INSTALLATION (LOW THRESHOLD DESIGN REQUIRES 8" X 8" BLOCK OUT CENTERED AT DRAIN PIPE LOCATION). ACCESSORIES: (1) 12" S.S. GRAB BAR, (1) 24" S.S. GRAB BAR, (1) 27" S.S. GRAB BAR, (1) 32"X16" PHENOLIC SLAB, ADA COMPLIANT, SWING-DOWN SEAT WITH LEGS, (1) SURFACE MOUNTED SOAP DISH, (1) SIOUX CHIEF MODEL 827-2B CAULKLESS BRASS DRAIN WITH STAINLESS STEEL STRAINER, (1) TWS COLLAPSIBLE "I" SHAPED WATER RETAINER. PROVIDE MOEN MODEL 8346 HAND-HELD SHOWER SYSTEM, PRESSURE BALANCING VALVE WITH 1/4" TURN STOPS, ADJUSTABLE TEMPERATURE LIMIT STOP, HAND-HELD SHOWER HEAD, 69" DOUBLE SWIVEL HOSE ASSEMBLY, 30" SLIDE BAR, VACUUM BREAKER, DROP ELL. PROVIDE STAINLESS STEEL CURTAIN ROD AND WEIGHTED SHOWER CURTAIN.
SS-1	SERVICE SINK (36" X 24" X 10") (FLOOR MOUNTED)	3	2	3	1/2	1/2	ACORN TERRAZZO-WARE MODEL TRH-242410: PROVIDE AND INSTALL WITH MODEL KFC CHROME UTILITY FAUCET, STAINLESS STEEL BUMPER GUARD, DRAIN GASKET, 36" HOSE AND WALL HANGER, MOP HANGER, AND (2) STAINLESS STEEL WALL GUARDS. MOUNT FAUCET 36" AFF.
SS-2	SERVICE SINK (28" RADIUS CORNER X 12") (FLOOR MOUNTED)	3	2	3	1/2	1/2	ACORN TERRAZZO-WARE MODEL TCR-28: PROVIDE AND INSTALL WITH MODEL KFC CHROME UTILITY FAUCET, STAINLESS STEEL BUMPER GUARD, DRAIN GASKET, 36" HOSE AND WALL HANGER, MOP HANGER, AND (2) STAINLESS STEEL WALL GUARDS. MOUNT FAUCET 36" AFF.
TD-1	TROUGH DRAIN	2	2	2	--	--	EAGLE GROUP FT-1218-SG 12X18 TROUGH DRAIN WITH STAINLESS STEEL GRATING. 14 GAUGE, TYPE 304 STAINLESS STEEL, CENTER BOTTOM DRAIN CONNECTION.
TP-1	TRAP PRIMER (PRESSURE ACTIVATED) (1 TO 4 TRAPS)	--	--	--	1/2"	--	PRECISION PLUMBING PRODUCTS MODEL CPO-500 WITH DU DISTRIBUTION UNIT IF REQUIRED FOR SERVING MORE THAN ONE TRAP.
TP-1	TRAP PRIMER (FLUSH VALVE PRIMER) (1 TRAP)	--	--	--	1/2"	--	PRECISION PLUMBING PRODUCTS MODEL FVP-1VB WITH VACUUM BREAKER. TRAP PRIMER TUBING SHALL BE INSTALLED OFF BACK OF FLUSH VALVE.
U-1	URINAL (MOTION SENSOR / BATTERY OPERATED) (SEE ARCH FOR MOUNTING HEIGHT)	2	1 1/2	INT.	3/4	--	KOHLER BARDON MODEL K-4991-ET WALL MOUNTED URINAL WITH 3/4" TOP SPUD. SLOAN REGAL 186 SFSM-0.5 SIDE MOUNT OPERATOR WITH MANUAL OVERRIDE FLUSH BUTTON, 0.5 GPF. INCLUDE BEEHIVE STRAINER AND JAY R. SMITH FIGURE NUMBER 0637 ADJUSTABLE FIXTURE SUPPORT.
WB-1	WALL BOX (WATER SUPPLY TO ICE MAKER)	--	--	--	1/2	--	OATEY FIREMASTER MODEL 39121 WITH FACEPLATE AND ADJUSTABLE METAL SUPPORT BRACKETS. FIRE-RATED, LOW LEAD, OR APPROVED EQUAL.
WB-2	WALL BOX (SUPPLY/DRAIN FOR WASHING MACHINE)	2	1 1/2	2	1/2	1/2	OATEY FIREMASTER MODEL 38478 WITH FACEPLATE, ADJUSTABLE METAL SUPPORT BRACKETS, AND WATER HAMMER ARRESTORS. FIRE RATED, OR APPROVED EQUAL.
WC-1	WATER CLOSET (16-3/16" SEAT HEIGHT) (MOTION SENSOR / HARD WIRED) (FLOOR MOUNTED)	4	2	INT.	1	--	KOHLER WELLCOMME MODEL K-96053 / FLOOR MOUNTED, WITH ELONGATED BOWL. KOHLER LUSTRA MODEL K-4666-C / ELONGATED OPEN FRONT SEAT WITH HINGE. SLOAN ROYAL 186 ESS-1.6-TMO-HW FLUSHOMETER WITH MANUAL OVERRIDE FLUSH BUTTON, 1.6 GPF. PROVIDE WITH EL-154 TRANSFORMER (120 VAC / 24 VAC), EL-485-A FLUSHOMETER ELECTRICAL BOX. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL ALL LOW VOLTAGE WIRING, CONDUIT, BOXES, TRANSFORMERS AND ASSOCIATED PARTS. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V CONNECTION AT TRANSFORMER(S)
WC-2	WATER CLOSET (17-1/2" SEAT HEIGHT) (MOTION SENSOR / HARD WIRED) (FLOOR MOUNTED) (COMFORT HEIGHT / ADA COMPLIANT)	4	2	INT.	1	--	KOHLER HIGHCLIFF ULTRA MODEL K-96057 FLOOR MOUNTED WITH ELONGATED BOWL. KOHLER LUSTRA MODEL K-4666-C ELONGATED OPEN FRONT SEAT WITH HINGE. SLOAN ROYAL 186 ESS-1.6-TMO-HW FLUSHOMETER WITH MANUAL OVERRIDE FLUSH BUTTON, 1.6 GPF. PROVIDE WITH EL-154 TRANSFORMER (120 VAC / 24 VAC), EL-485-A FLUSHOMETER ELECTRICAL BOX. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL ALL LOW VOLTAGE WIRING, CONDUIT, BOXES, TRANSFORMERS AND ASSOCIATED PARTS. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V CONNECTION AT TRANSFORMER(S)
WCO	WALL CLEANOUT	SEE PLANS	--	--	--	--	JAY R. SMITH 4472T SERIES WITH CAST BRONZE TAPER THREAD PLUG, STAINLESS STEEL ROUND COVER, AND A STAINLESS STEEL VANDAL PROOF SCREW.
WH-1	WATER HEATER (NOMINAL 100 GALLON) (NATURAL GAS - HIGH EFFICIENCY)	--	--	--	SEE PLANS	SEE PLANS	BRADFORD WHITE MODEL EF-100T-199E-3N. 199 MBH INPUT, 110V/1Ø, 1.8 AMPS, 28" DIAMETER, 78" TALL WITH SIDE CONNECTIONS. PROVIDE WITH PVC CONCENTRIC INTAKE/VENT KIT AND SEISMIC STRAP. PROVIDE WATER HEATER WITH HEAT TRAP.
WH-2	WATER HEATER (POINT OF USE) (ELECTRIC)	--	--	--	SEE PLANS	SEE PLANS	CHRONOMITE CMI SERIES MODEL CMI-20L/208, 208/1, 20 AMPS, 4.2 KW, WITH INTEGRAL MIXING VALVE, MODELKWIK-CON DISCONNECT, AND SHALL PROVIDE 57°F TEMPERATURE RISE AT 0.5 GPM. PROVIDE WITH LS-1 LAV SHIELD.
WS-1	WATER SOFTENER (DUPLEX SYSTEM)	INDIRECT			2	--	KINETICO COMMERCIAL DUPLEX WATER SOFTENER SYSTEM: SHALL MEET THE FOLLOWING CRITERIA: EXCHANGE CAPACITY OF 100-150 GRAINS, 60 GPM @ 15 PSI MAX PRESSURE DROP. 2000 GPD, 7 HOURS PER DAY, 5 DAYS A WEEK. ELECTRICAL SHALL PROVIDE 120V/1Ø PLUG OUTLET.

NOTES:

1. ALL ADA COMPLIANT FIXTURES MUST COMPLY WITH ICC/ANSI A117.1. SEE ARCHITECTURAL PLANS FOR HANDICAPPED FIXTURE DESIGNATIONS, LOCATIONS, CLEARANCES, AND MOUNTING HEIGHTS.
2. ALL EXPOSED HW PIPING, CW PIPING, AND DRAIN LINES BENEATH ALL LAVATORIES AND ALL ADA COMPLIANT SINKS MUST BE INSULATED TO PREVENT INJURY. REFER TO ARCHITECTURAL PLANS. INSULATE WITH MOLDED CLOSED CELL VINYL INSULATION - TRUEBRO, PLUMBEREX, OR EQUAL.
3. PROVIDE P-TRAP PRIMERS FOR ALL FLOOR DRAINS AND FLOOR SINKS (TRAP PRIMERS ARE NOT INDICATED ON PLANS - REFERENCE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION). PROVIDE A BALL TYPE SHUT-OFF VALVE UPSTREAM OF PRIMER VALVE. SEE SPECIFICATIONS.
4. SEE SPECIFICATIONS FOR ALTERNATE APPROVED MANUFACTURERS.
5. HIGH EFFICIENCY WATER HEATERS: PROVIDE WITH CONDENSATE NEUTRALIZATION KIT BY JJM BOILER WORKS MODEL JM (OR EQUAL), SIZED PER EQUIPMENT CAPACITY.

ADDENDUM-01 dated 5.11.23

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Project No. 22-104

PROFESSIONAL ENGINEER LICENSED 16683 5/11/2023 STATE OF IDAHO CHRISTOPHER DYKE

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: JM/CD
CHECKED BY: BC

Agency Review

DRAWING NO.
P-5.0

KITCHEN PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE DESCRIPTION	CONNECTION SIZE (INCHES)							MANUFACTURER / MODEL NUMBER / DESCRIPTION / ADDITIONAL COMMENTS	REMARKS
		WASTE	VENT	TRAP	HARD CW	SOFT CW	SOFT HW	NAT. GAS		
K-1	DISH WASHER HIGH TEMP. WITH BUILT ON BOOSTER AND VACUUM BREAKER	ROUTE DRAIN LINE FULL SIZE, TERMINATE INDIRECTLY TO FS			--	--	3/4	--	EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	3 , 6
K-2	DISH TABLE WITH TROUGH DRAIN	ROUTE DRAIN LINE FULL SIZE, TERMINATE INDIRECTLY TO FS			--	--	--	--	EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	--
K-3	GARBAGE DISPOSER - SINK	3	2	3	--	1/2	--	--	EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	1
K-4	PRE-RINSE UNIT	--	--	--	--	1/2	1/2	--	EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	7
K-8	ICE MAKER / ICE BIN	ROUTE DRAIN LINE FULL SIZE, TERMINATE INDIRECTLY TO FS			--	1/2	--	--	EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	1
K-9	DOUBLE STACK CONVECTION OVEN	ROUTE DRAIN LINE FULL SIZE, TERMINATE INDIRECTLY TO FS			--	--	--	3/4 (2)	EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	--
K-14	COUNTER WITH DBL. SINK	ROUTE DRAIN LINE FULL SIZE, TERMINATE INDIRECTLY TO FS			--	--	--	--	EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	--
K-16	WALK IN COOLER	ROUTE CONDENSATE LINE FULL SIZE, TERMINATE INDIRECTLY TO FS			--	--	--	--	EQUIPMENT PROVIDED BY OTHERS, CONDENSATE DRAIN LINE ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	--
K-17	WALK IN FREEZER	ROUTE CONDENSATE LINE FULL SIZE, TERMINATE INDIRECTLY TO FS			--	--	--	--	EQUIPMENT PROVIDED BY OTHERS, CONDENSATE DRAIN LINE ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	5
K-18	COMBI OVEN WITH WATER FILTER	--	--	--	--	1/2	--	1	EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	1 , 4
K-19	STEAM KETTLE WITH DRAIN STAND DRAWER	ROUTE DRAIN LINE FULL SIZE, TERMINATE INDIRECTLY TO FS			--	--	--	3/4	EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	--
K-21	COUNTER WITH TRIPLE SINK	ROUTE DRAIN LINE FULL SIZE, TERMINATE INDIRECTLY TO FS			--	--	--	--	EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	2
K-25	PEDESTAL POT AND KETTLE FILLER	--	--	--	--	1/2	1/2	--	EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	--
K-27	PRE RINSE UNIT	--	--	--	--	1/2	1/2	--	EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	7
K-28	DOUBLE SINK MIXING FAUCET	--	--	--	--	1/2	1/2	--	EQUIPMENT PROVIDED BY OTHERS, ROUGH IN AND CONNECTION BY PLUMBING CONTRACTOR.	--

NOTES: FT = FLOOR TROUGH, FS = FLOOR SINK

1. PLUMBING CONTRACTOR TO PROVIDE WITH REDUCED PRESSURE BACKFLOW PREVENTER WATTS, SERIES 009 LEAD FREE REDUCED PRESSURE ZONE ASSEMBLY, MODEL NO. 009 SERIES WITH QUARTER TURN BALL VALVES, BRONZE STRAINER, AND AIR GAP. BRONZE BODY CONSTRUCTION, ROUTE DRAIN FULL SIZE TO FLOOR SINK, TERMINATE INDIRECTLY. SEE POINT OF USE REDUCED PRESSURE BACKFLOW PREVENTER DETAIL.

1

2. PROVIDE SLIDE GATE FOR EACH BASIN DRAIN, MANIFOLD TOGETHER AND ROUTE TO FS.
3. PLUMBING CONTRACTOR TO PROVIDE COOL DOWN KIT ON DISH MACHINE DRAIN LINE WITH 1/2" CW LINE AND RPBP WATTS SERIES 009 LEAD FREE REDUCED PRESSURE ZONE ASSEMBLY WITH SHUT OFF VALVES, BRONZE STRAINER, AND AIR GAP. BRONZE BODY CONSTRUCTION- 1/2" THRU 2", ROUTE DRAIN FULL SIZE TO FLOOR SINK, TERMINATE INDIRECTLY. SEE POINT OF USE REDUCED PRESSURE BACKFLOW PREVENTER DETAIL.
4. CONNECT FILTER AND FILTER LINE FROM FILTER, FILTER PROVIDED BY OTHERS.
5. HEAT TRACE AND INSULATION CONDENSATE DRAIN LINE FROM EVAPORATIVE COOLER COIL IN FREEZER.
6. CONNECT BOOSTER TO DISH MACHINE.
7. PROVIDE CHECK VALVES ABOVE CEILING ON HOT AND COLD WATER LINES TO FAUCET.

ADDENDUM-01 dated 5.11.23

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

DRAWN BY: JM/CD
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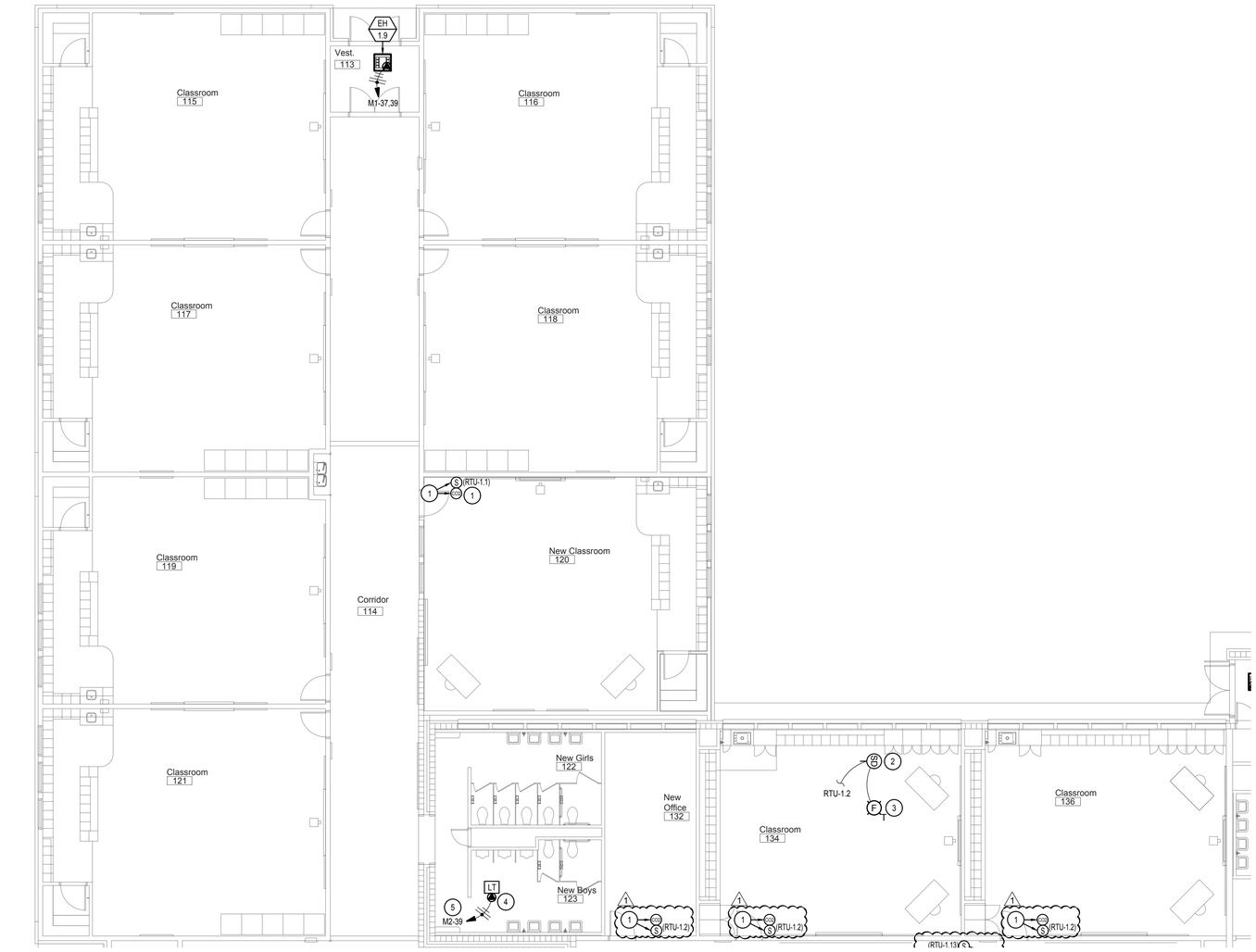
Agency Review

DRAWING NO.
P-5.1



N

1 Mechanical Power Plan - Area 'A'

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

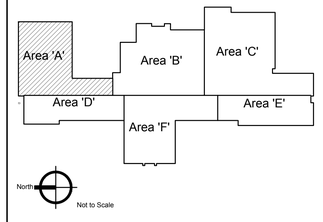
KEYED NOTES:

(#) 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. 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.

ADDENDUM-01 dated 5.11.23

Key Plan



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Project No. 22-104

PROFESSIONAL ENGINEER REGISTERED 10389 5/11/2023 STATE OF IDAHO KURT LECHTENBERG

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

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

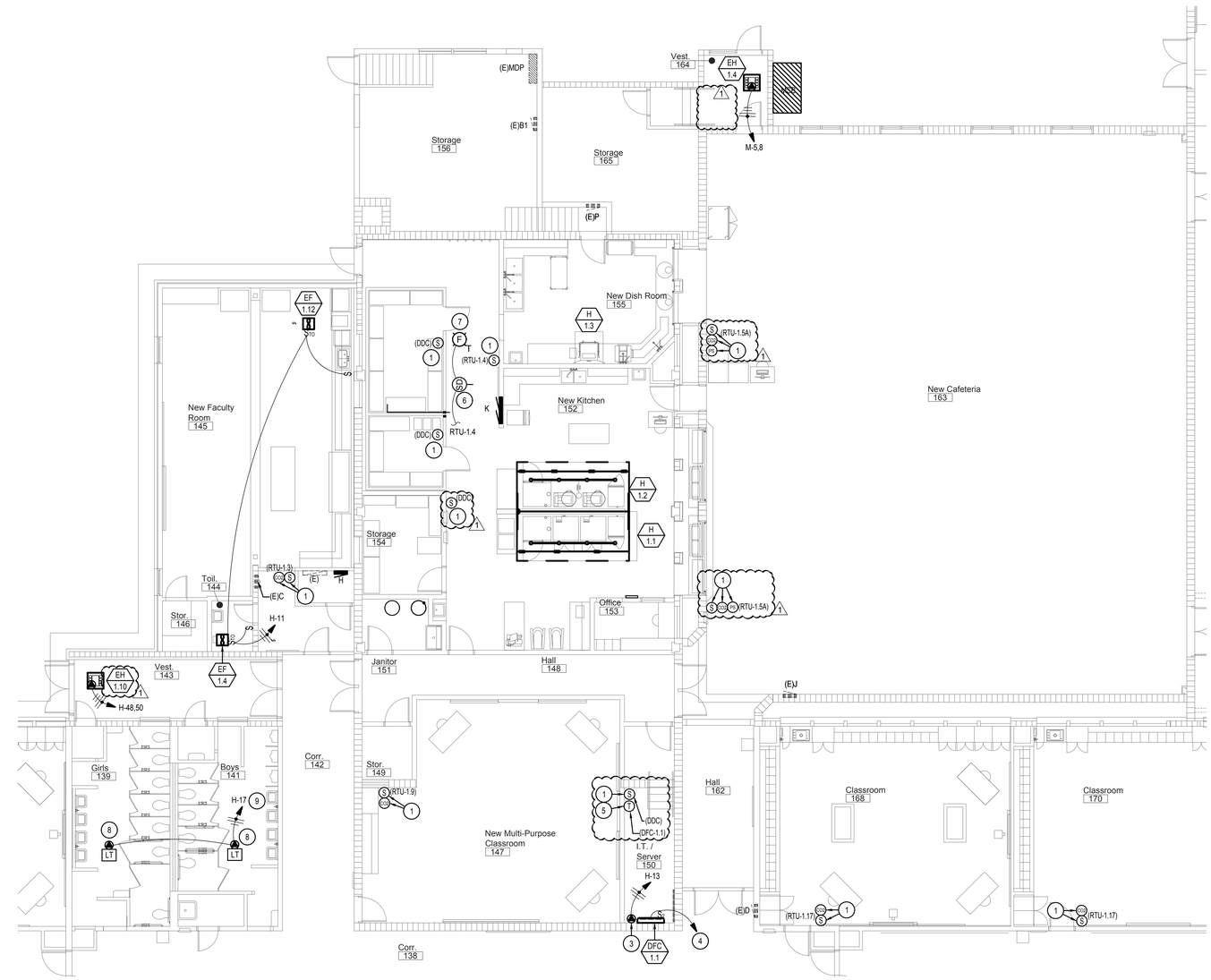
DATE: February 24, 2023
LKV PROJECT #: -
REVISIONS:

DRAWN BY: AN
CHECKED BY: KL

Design Development

DRAWING NO.

E-5.1



N. 1 Mechanical Power Plan - Area 'B'

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

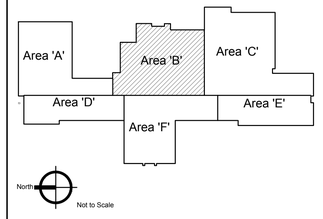
KEYED NOTES:

(#) 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. 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.

ADDENDUM-01 dated 5.11.23

Key Plan



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Revisions		
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1	Addendum #1	05/11/2023

Jefferson Elementary School
Addition and Remodel

600 N. Fillmore Street, Jerome, Idaho

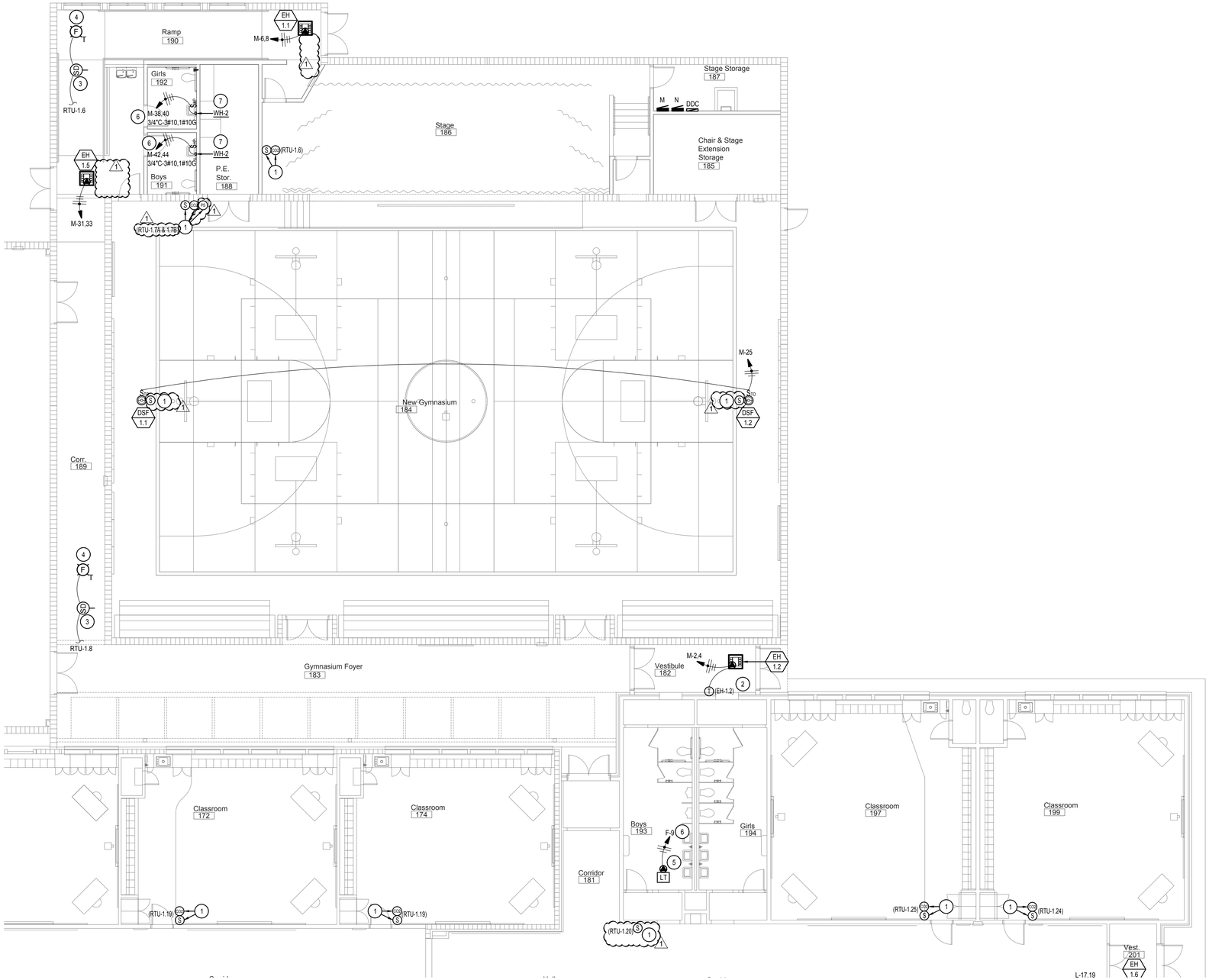
DATE: February 24, 2023
LKV PROJECT #: -
REVISIONS:

DRAWN BY: AN
CHECKED BY: KL

Design Development

DRAWING NO.

E-5.2



N

1 Mechanical Power Plan - Area 'C'

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. 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.
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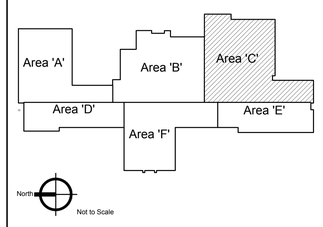
6. PROVIDE GFCI BREAKER IN PANEL FOR CIRCUIT INDICATED.
7. CONNECT WATER HEATER AND ALL ASSOCIATED DEVICES AND EQUIPMENT. COORDINATE WITH PLUMBING CONTRACTOR TO ENSURE ALL ASSOCIATED DEVICES FIT BENEATH, AND DO NOT INTERFERE WITH, SINK SHROUD PRIOR TO ROUGH-IN.

ADDENDUM-01 dated 5.11.23

Key Plan



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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

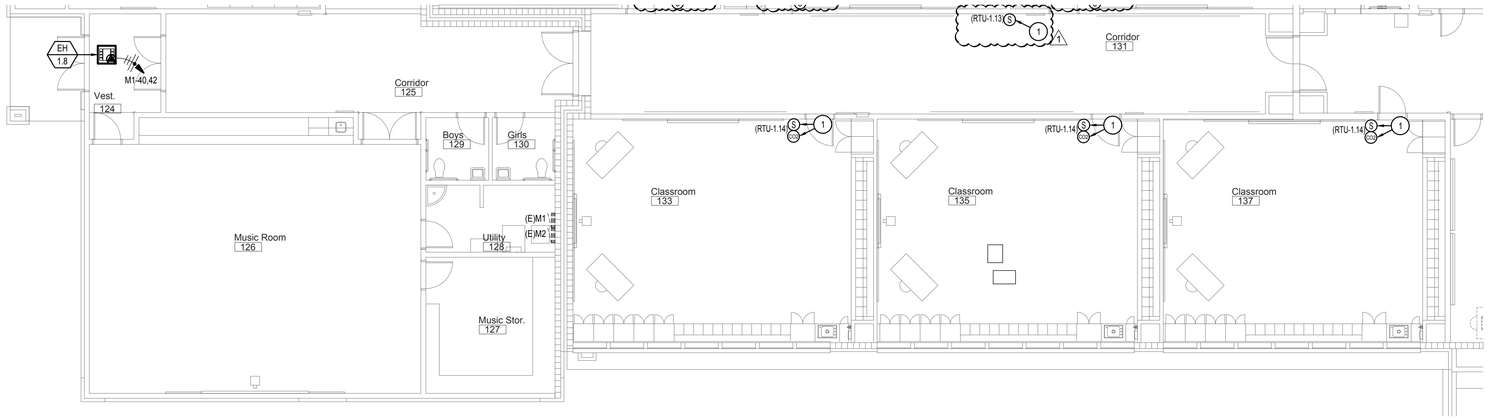
DATE: February 24, 2023
LKV PROJECT #: -
REVISIONS:

DRAWN BY: AN
CHECKED BY: KL

Design Development

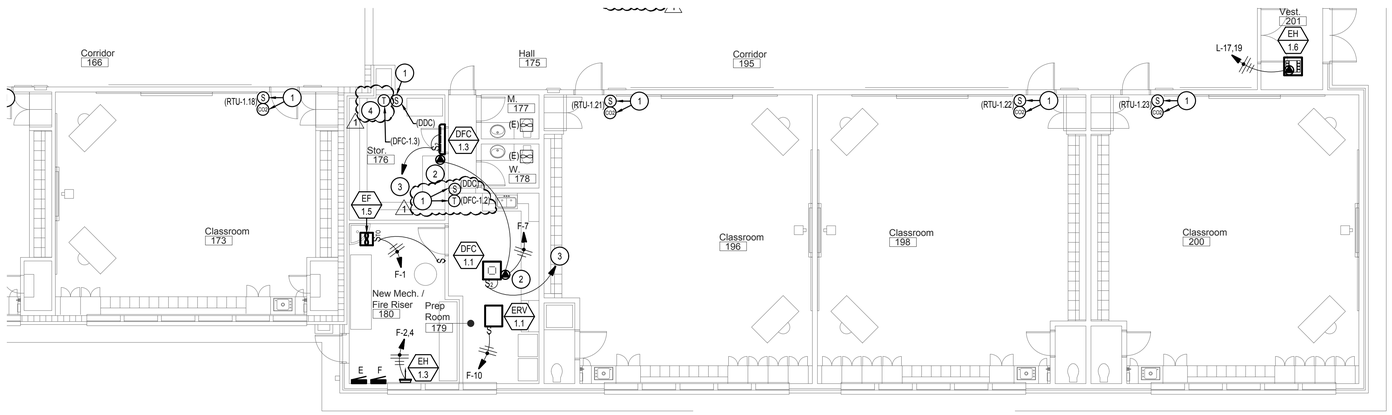
DRAWING NO.

E-5.3



N. 1 Mechanical Power Plan - Area 'D'

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



N. 2 Mechanical Power Plan - Area 'E'

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

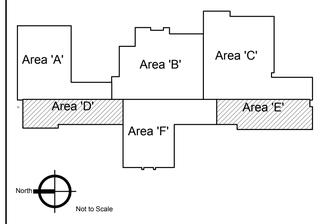
KEYED NOTES:

(#) 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.

ADDENDUM-01 dated 5.11.23

Key Plan



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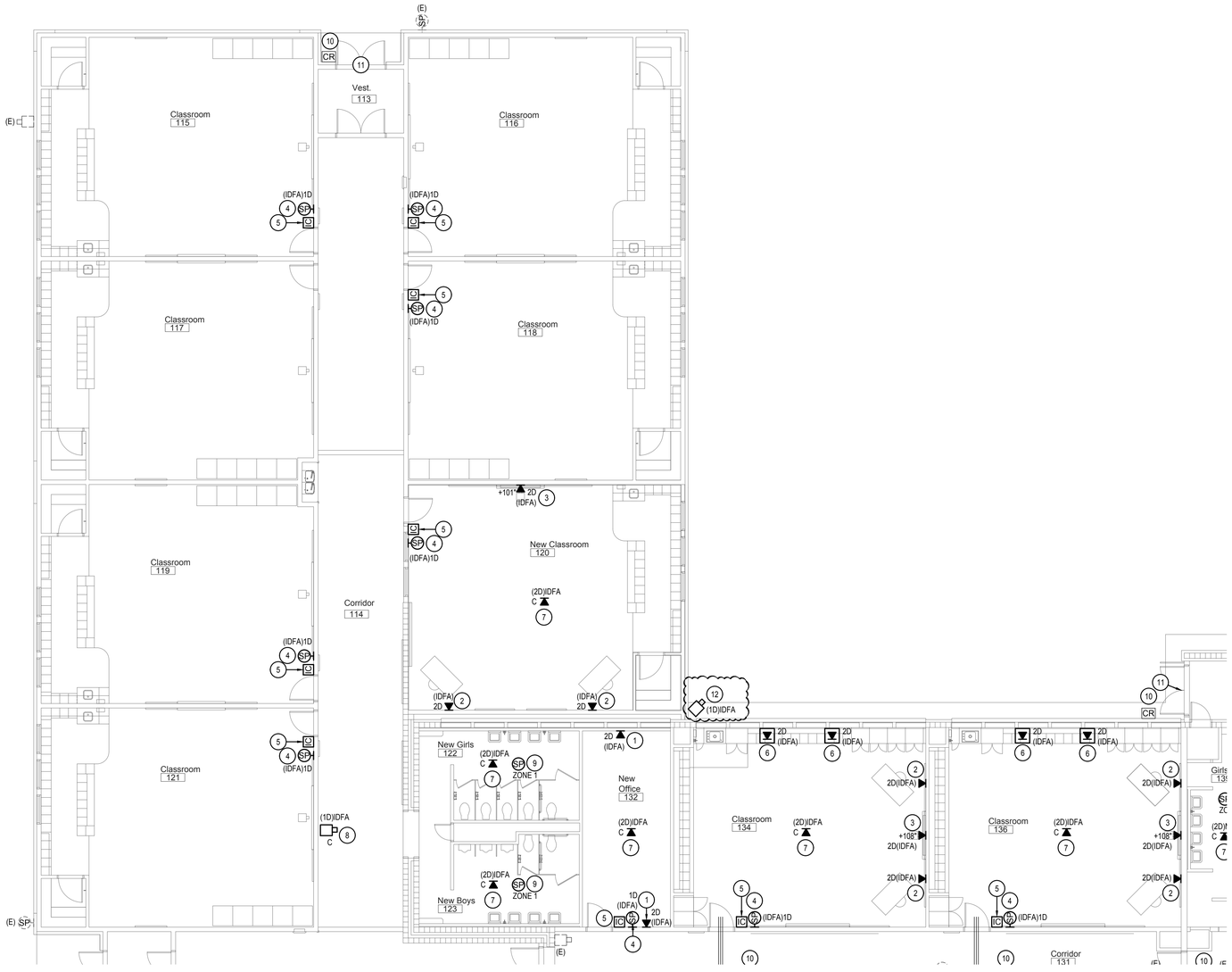
LKV PROJECT #: -
REVISIONS:

DRAWN BY: AN
CHECKED BY: KL

Design Development

DRAWING NO.

E-5.4



N. 1 Special Systems Plan - Area 'A'

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

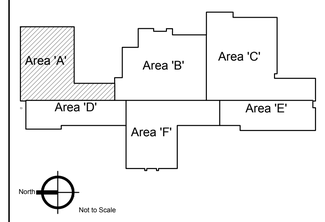
KEYED NOTES:

(#) 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 A/V 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 SPECIFICATIONS 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 '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.
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 MANUFACTURE'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 SWITCH(ES) 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.

ADDENDUM-01 dated 5.11.23

Key Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 5/11/2023 STATE OF IDAHO KURT LECHTENBERG

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

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

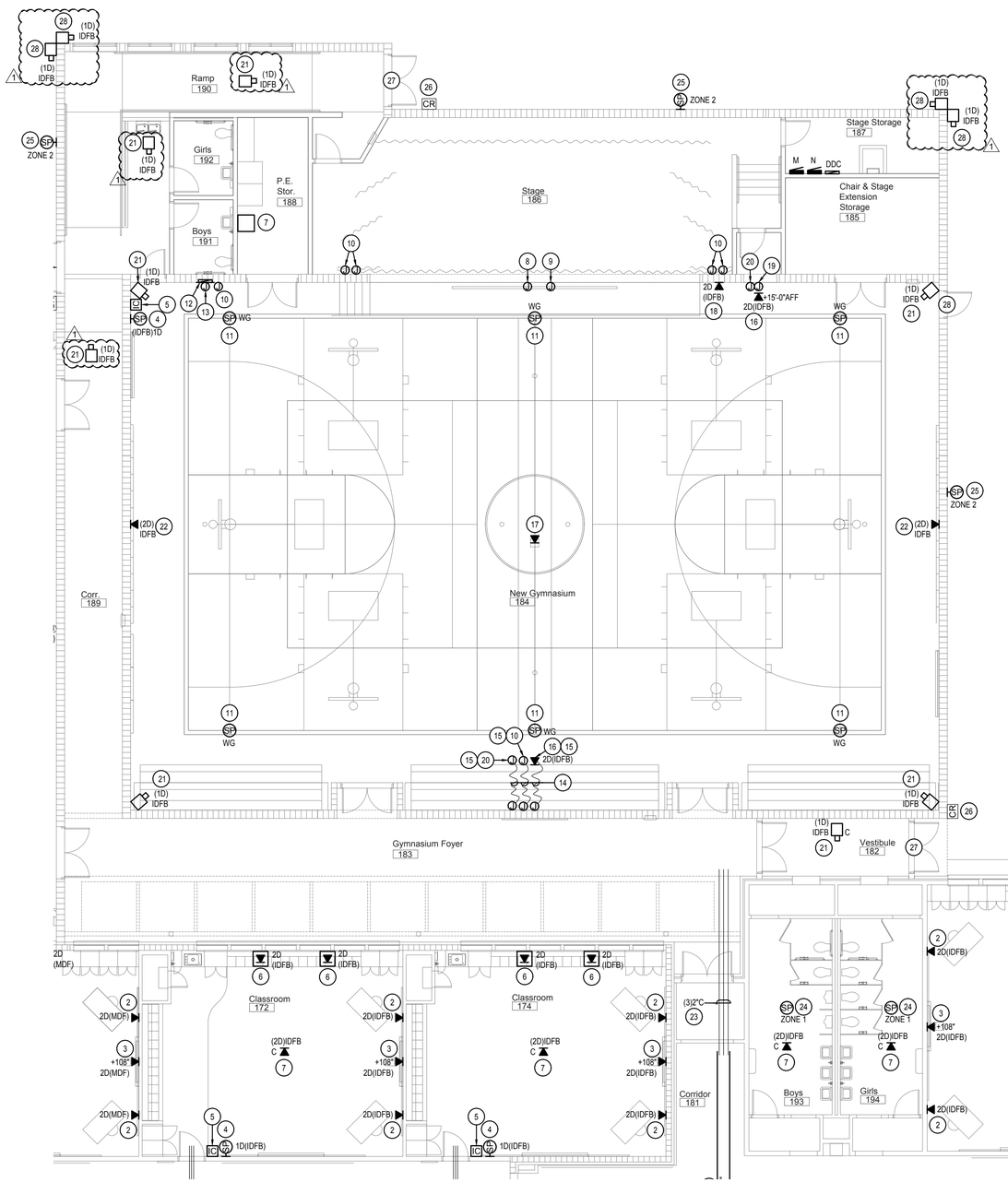
DATE: February 24, 2023
LKV PROJECT #: -
REVISIONS:

DRAWN BY: AN
CHECKED BY: KL

Design Development

DRAWING NO.

E-7.1



1 Special Systems Plan - Area 'C'

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

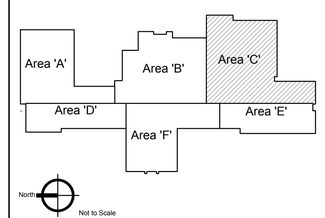
KEYED NOTES:

(#) 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. ROUTE VIA CABLE TRAY. 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. ROUTE VIA CABLE TRAY. TERMINATE AND TEST ALL CABLING. RE:CLASSROOM TEACHER STATION DETAIL.
3. CLASSROOM PROJECTOR DATA AND A/V 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.
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. 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.
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 '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.
7. GYM SOUND SYSTEM HEAD-END EQUIPMENT FOR GYMNASIUM MOUNTED ON THE WALL SUCH THAT THE TOP OF THE RACK IS 6'-0" AFF.
8. 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.
9. 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.
10. 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.
11. 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.
12. FLUSH MOUNTED REMOTE SOUND SYSTEM CONTROL PANEL MOUNTED AT 46" AFF. PROVIDE ENCLOSURE (HOFFMAN ASE SERIES OR EQUAL) WITH A LOCKABLE HINGED COVER (HOFFMAN AFDF SERIES WITH AN ACLFDF 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 KEYED TO MATCH THE SCHOOL MASTER KEY SYSTEM.
13. 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.
14. PROVIDE FLEXIBLE CONNECTION BETWEEN WALL AND RECEPTACLE.
15. RECEPTACLE TO BE MOUNTED IN THE FACE OF THE BLEACHERS. COORDINATE DEVICE LOCATION WITH ARCHITECT AND BLEACHER PROVIDER PRIOR TO ROUGH-IN.
16. 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.
17. PROJECTOR A/V CONNECTION POINT. PROVIDE A 2-GANGE JUNCTION BOX MOUNTED AT OVERHEAD PROJECTOR LOCATION FOR USB AND HDMI CABLING. PROVIDE A 1-1/4" CONDUIT FROM. FROM PROJECTOR TO TEACHER STATION A/V CONNECTION POINT NEAR STAGE. VERIFY PROJECTOR LOCATION AND MOUNTING HEIGHT PRIOR TO ROUGH-IN. RE: CLASSROOM TEACHER STATION DETAIL (SIMILAR).
18. DESK DATA AND A/V 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).
19. 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.
20. JUNCTION BOX FOR FUGURE SCOREBOARD CONTROL CABLING MOUNTED AT 1'-6" AFF. PROVIDE 1" CONDUIT FROM SCOREBOARD CONTROLS TO JUNCTION BOX AT SCOREBOARD. PROVIDE BLANK COVER PLATE.
- 1 21. 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.
22. 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.
23. PROVIDE CONDUIT SLEEVES, QUANTITY AND SIZE AS INDICATED. TERMINATE WITH INSULATED THROAT BUSHINGS.
24. 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 SWITCHS IN 'MDF' DATA RACK.
25. 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 SWITCH(ES) IN 'MDF' DATA RACK. MOUNT SPEAKER AT 10'-6" AFF. VERIFY MOUNTING HEIGHT PRIOR TO ROUGH IN.
26. 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.
27. 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.
28. 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.
- 1 29. 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 DATA RACK INDICATED.

ADDENDUM-01 dated 5.11.23

Key Plan



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PROFESSIONAL ENGINEER REGISTERED 10389 5/11/2023 STATE OF IDAHO KURT LECHTENBERG

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

Revisions

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-7.3