

January 5, 2024

**ADDENDUM No. 1**

**PROJECT:**

**Anoka Hennepin Schools**

**Lincoln and Adams Elementary Schools 2024 Kitchen Upgrades**

Anoka, Minnesota

Arch. Project #220117

The following provides changes and/or clarifications to the Bid/Contract Documents for the above-referenced project. Indicate the number and date of this Addendum in the spaces provided on the Bid Form.

**GENERAL**

Item 1: See sign-in sheet from the pre bid meeting on December 20, 2023.

**PROJECT MANUAL**

**Item 1** Section 001113 Call for Bids: Revise the fee for downloading documents from Franz to \$30.00.

**DRAWINGS**

**Item 1 Sheet T1.0:** Add wall type 2

Item 2 Sheet A1.1: Show floor cutting for new UG piping.

**Item 3 Sheet A1.2:** Paint new piping in rooms with exposed structure above.

**Item 4 Sheet A1.3:** Add note to adjust existing ACT grids as required for new lighting layout. Existing and New lighting updated to match MEP drawings.

**Item 5 Sheet A2.1:**

- a. Omit reference to the new opening in the wall north of Room A122A.
- b. Extend saw-cut into existing door opening to extend cleanout to new wall cleanout.

**Item 6 Sheet A2.2:**

- c. Revise the new metal stud wall adjacent to Door A109 to have 6" studs rather than 3 5/8" studs as indicated. (Wall type 2).
- d. Delete Door A122E from the Floor Plan and Opening Schedule and notes.
- e. Add the following note: The Contractor shall provide a total of six (6) 4" diameter core drilled holes above the ceilings along the condenser line route from the new cooler/freezer to the condenser location in the boiler room. It is to be assumed that four of the new holes are through one-hour fire rated walls and shall be filled to meet applicable codes regarding penetrations in fire rated walls.
- f. Add the following note to the existing hallway: FSEC to remove existing acoustic tile ceiling as needed and run line sets above existing hallway ceiling from the new cooler/freezer coils to the refrigeration units to be located in the boiler room. Work is to be coordinated with existing conditions and may require additional turns and/or length of material to accommodate existing pipes, ducts, etc. FSEC to reinstall ceiling to match existing conditions.
- g. Add the following note to boiler room: "NOTE: AT NEW ROOF PENETRATIONS AND/OR MECH CURBS (REFER TO MEP DRAWINGS) EXISTING ROOF IS A SBS MODIFIED BITUMEN ROOFING SYSTEM -OWNER'S ROOFING CONSULTANT WILL PROVIDE FINAL ROOF CURB FLASHING ONTO TO

**Lincoln and Adams Elementary Schools 2024 Kitchen Upgrades**

Anoka, Minnesota

ADDENDUM 1

1/5/2024

Page 2

CURB/CANTS/BLOCKING BY CONTRACTOR, AND MAKE THE TIE-IN TO EXISTING ROOFING”

h. Add floor and wall finish patch to RFS note C.

**Item 7 Sheet A2.3:** Add note to adjust existing ACT grids as required for new lighting layout. Existing and New lighting updated to match MEP drawings.

**See attached documents by Culinex and Hallberg for additional addendum information.**

**END OF ADDENDUM 1**

## 20-Dec-23

## SIGN IN SHEET

[illegible]



# ADDENDUM

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## ADDENDUM NO. 1

TO DRAWINGS AND SPECIFICATIONS  
FOR THE

MECHANICAL/ELECTRICAL CONSTRUCTION FOR THE  
LINCOLN AND ADAMS ELEMENTARY SCHOOLS 2024 KITCHEN RENNOVATIONS

Hallberg Project No. R23-4767.000

Date of Original Drawings and Specifications.....December 1, 2023

Date of this Addendum..... January 5, 2024

Date of Bid Opening..... January 16, 2024

To: Bidders of Record

This Addendum may apply to any or all Contracts and Subcontracts. Unless otherwise specified or indicated on the attached Drawings, all work required by this Addendum shall comply with the Contract Documents.

Acknowledge receipt of this Addendum by recording the Addendum number and date of issue on the Bid Form. Failure to do so may subject bidder to disqualification.

### **CHANGES TO MECHANICAL PLANS**

#### **1. M2.02 ADAMS MECHANICAL PLANS**

A. Refer to attached plan for revisions.

### **CHANGES TO ELECTRICAL PLANS**

#### **1. E2.2 ADAMS ELECTRICAL PLAN**

A. Refer to the attached plan for revisions.

#### **2. E2.3 ADAMS ELECTRICAL SCHEDULES AND DETAILS**

A. Refer to the attached plan for revisions.

**END OF ADDENDUM**



DECEMBER 27, 2023

## ADDENUM FS-01

Project Name: Lincoln Elementary and Adam's Elementary School, 2024 Kitchen Renovation

Project Bid Number: 230115/2314

From: Culinox, 311 4<sup>th</sup> Ave South, Sartell, MN

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*The following items modify or interpret to the Bidding Documents additions, deletions, clarifications, or corrections. Where a portion of the Bidding Documents shall be modified by this addendum, the unaltered portions of the Bidding Documents shall remain in effect.*

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Written Description of work:

### GENERAL ADDITION:

Include pricing to make the following changes to the foodservice equipment package.

#### Lincoln Elementary

1. Section 114000-L3.3.g: Omit: (one) Little Giant 115 Volt Condensate Pump from project.
2. Section 114000-L7.3.g: Omit: (one) Little Giant 115 Volt Condensate Pump from project.
3. Add: FSEC to extend drain from cooler and freezer coils L3 and L7 to floor drain as shown on M1.02 and as per 114000-Q.3
4. Section 114000-L4.3.g: Omit St. Stl. Cover for access opening.



#### Adams Elementary

1. Section 114000-A1.3.k Add: Three (3) 3" x 3" x 96" 16 gauge stainless steel corner guards as shown on sheet A2.2 at electrical panel and exterior corner of New Dry Storage Room A110.
2. Sheet A2.2 Redline Note for installation of refrigeration line from walk-in cooler/freezer to condensers that are to be located in Mechanical Room.

### END OF FOODSERVICE ADDENDUM

Attachments: A2.2 with Redline

#### Fargo

 1802 1st Ave S  
Fargo, ND 58108  
 1-800-437-4076

#### Grand Forks

 513 10th Ave N  
Grand Forks, ND 58203  
 1-800-437-4076

#### Sartell

 311 4th Ave S  
Sartell, MN 56377  
 1-320-259-6557









612-309-6002  
1442 98<sup>TH</sup> LANE NW • COON RAPIDS, MN 55433  
MIKE@MIKEKRAFTARCHITECTS.COM • WWW.MIKEKRAFTARCHITECTS.COM

# LINCOLN AND ADAMS ELEMENTARY SCHOOLS 2024 KITCHEN RENOVATIONS

[illegible]

# LINCOLN DEMOLITION FLOOR PLAN

I HEREBY CERTIFY THAT THIS  
PLAN, SPECIFICATION, OR  
REPORT WAS PREPARED BY  
ME OR UNDER MY DIRECT  
SUPERVISION AND THAT I AM A  
DULY LICENSED ARCHITECT  
UNDER THE LAWS OF THE  
STATE OF MINNESOTA.

MICHAEL F. KRAFT  
#23538 1/5/2024  
REG. NO. DATE

CHECKED BY MK

DRAWN BY  
TLH

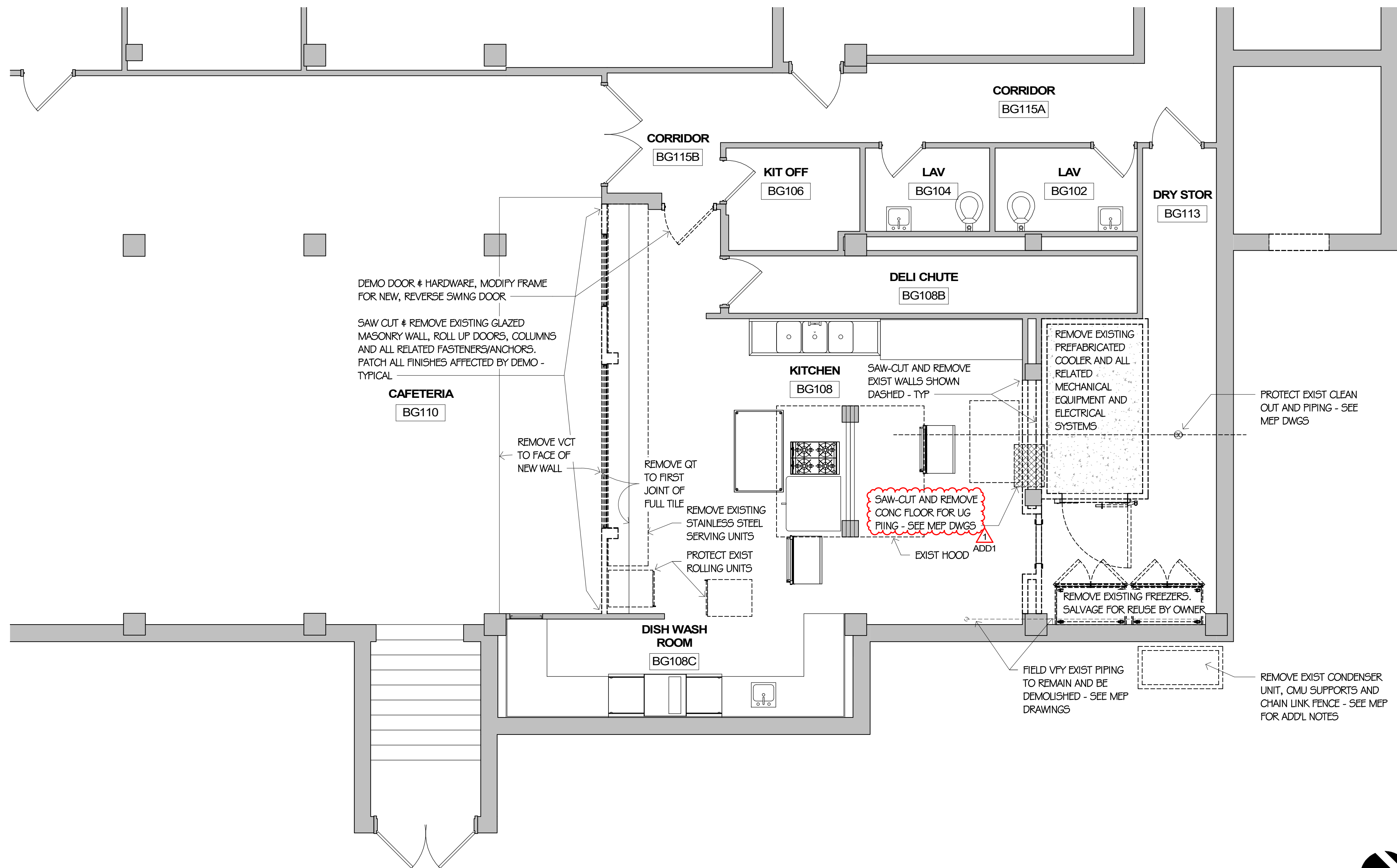
DATE 1/5/2024

PROJECT NO. 230115/2314

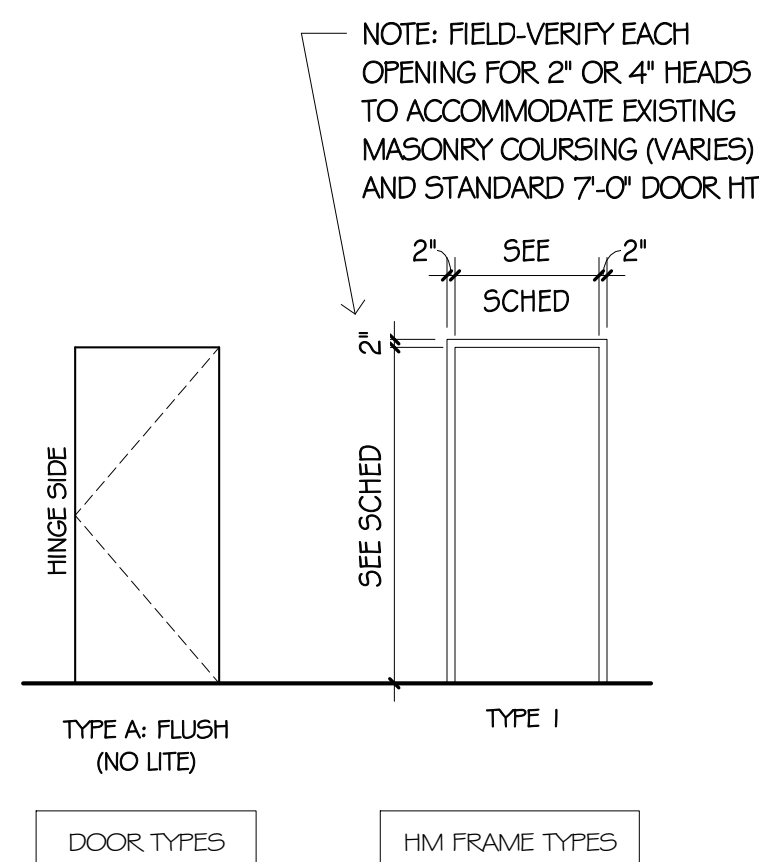
SHEET NO. \_\_\_\_\_

## A1.1

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LINCOLN OPENING SCHEDULE (OPS)										
#	DOOR					HDWR GROUP	FRAME			OPS COMMENTS
	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL		TYPE	MATERIAL	FINISH	
BG108	3'-0"	7'-0"	1 3/4"	A	PLAM	1	EX-1	EX HM	PT	1
BG111	3'-0"	6'-8"	2"	~	INSUL	~	~	~	~	3
BG112	3'-0"	6'-8"	2"	~	INSUL	~	~	~	~	3
D177	6'-0"	8'-2"		~	ROLL-UP	~	~	~	~	2
D178	4'-8"	8'-2"		~	ROLL-UP	~	~	~	~	2
D179	6'-0"	8'-2"		~	ROLL-UP	~	~	~	~	2
D180	3'-6"	8'-2"		~	ROLL-UP	~	~	~	~	2

LINCOLN OPS COMMENTS:

1. REMOVE EXIST DOOR AND HARDWARE, SALVAGE FOR RE-USE. EXIST HM FRAME TO REMAIN, MODIFY FOR REVERSE SWING DOOR, WITH KICKPLATE, PATCH ALL HOLES AND DEFECTS & REPAINT FRAME. INSTALL DOOR WITH NEW CONTINUOUS HINGE AND OVERHEAD STOP - BALANCE OF HARDWARE RE-USED FROM EXISTING INCLUDING LOCKSET. FIELD VERIFY EXIST FRAME SIZE PRIOR TO ORDERING DOOR.
2. SS ROLL-UP DOOR W/ LOCK TO ACCOMMODATE BEST 7-FIN SMALL FORMAT (BUILDING/DISTRICT STANDARD) - BY SECTION 088300. PROVIDE STAINLESS STEEL DOOR TRACKS AND ANGLES W/ SS FASTENERS - TYPICAL
3. COOLER/FREEZER DOORS BY SECTION 114000 - VERIFY DOOR THICKNESS, HEIGHT AND WIDTH W/ FSEC

LINCOLN HARDWARE GROUPS:  
LI - NEW CONTINUOUS HINGES, NEW KICKPLATE, NEW BUMPERS DRILLED IN - BALANCE OF HARDWARE RE-USED FROM EXISTING INCLUDING LOCKSET

LINCOLN ROOM FINISH SCHEDULE (RFS)						
ROOM NO	ROOM NAME	FLOOR/(FIN)	WALL BASE	WALL/(FIN)	CEILING/(FIN)	RFS COMMENTS
BG102	LAV	EX	EX	EX	EX PLAST/EXPOSED	E
BG104	LAV	EX	EX	EX	EX PLAST/EXPOSED	E
BG106	KIT OFF	EX	EX	EX	EX PLAST/EXPOSED	E
BG108	KITCHEN	EX QT/QT	EX QT/QT	EX GMU/EX PLAST/EX CONC/CT	EX PLAST/GYP/ACT	A,B,C
BG108B	DELI CHUTE	EX CONC	EX	EX GMU/EX PLAST/EX CONC	EX PLAST/EXPOSED	E
BG108C	DISH WASH ROOM	EX QT	EX QT	EX GMU/EX PLAST/EX CONC	EX PLAST/EXPOSED	A,B,C
BG110	CAFETERIA	EX VCT	EX VINYL/QT	EX/CT	EX ACT/ACT	B,C
BG111	COOLER	QT	BY 114000	BY 114000	BY 114000	F
BG112	FREEZER	BY 114000	BY 114000	BY 114000	BY 114000	F
BG113	DRY STOR	EX QT	EX QT	EX GMU/EX PLAST/EX CONC	EX PLAST/EXPOSED	A,B,C
BG115A	CORRIDOR	EX	EX	EX	EX PLAST/EXPOSED	E
BG115B	CORRIDOR	EX	EX	EX	EX PLAST/EXPOSED	E

ROOM FINISH SCHEDULE NOTES

- A. PAINT ALL FRAMES, AND ALL WALL AND CEILING SURFACES THAT DO NOT HAVE A FACTORY FINISH. PROVIDE EPOXY PAINT AT ALL NEW AND EXISTING GYP BD, CONCRETE COLS, AND/OR PLASTER W/OUT CT. PROVIDE CT AS SHOWN/NOTED ON RFS AND FLOOR PLANS.
- B. PATCH CONC FLOOR, VCT # QT FLOOR/BASE WHERE DISTURBED BY WORK.
- C. REPAIR/REPLACE CEILING WHERE DISTURBED BY WORK (TYPE VARIES)
- D. PROVIDE ADA/ACCESSIBLE COMPLIANT RUBBER TRANSITION(S) BETWEEN FLOOR FINISHES (VARIES).
- E. NO GENERAL DEMO OR CONSTRUCTION WORK THIS ROOM. MEP OR OTHER CONTRACTORS SHALL REMOVE, PATCH AND RESTORE ALL FINISHES AS REQUIRED TO COMPLETE THEIR WORK IN THIS ROOM.
- F. ALL FINISHES IN COOLER/FREEZER BY 11400 EXCEPT QT FLOORS AS SCHED.

ROOM FINISH GENERAL NOTES (APPLY TO ALL ROOMS).

G1. EX. REFERS TO EXISTING FINISH. NO WORK REQUIRED UNLESS NOTED OTHERWISE (E.G. PATCHING FOR MEP WORK) OR WHERE AFFECTED BY GENERAL DEMOLITION OR CONSTRUCTION. (NOTE: FINISHES VARY)

G2. WHERE "PATCH" IS USED, VERIFY EXISTING MATERIALS IF NOT NOTED, AND PATCH TO MATCH EXIST WHERE AFFECTED BY DEMO AND/OR NEW WORK - MATERIALS MAY VARY.

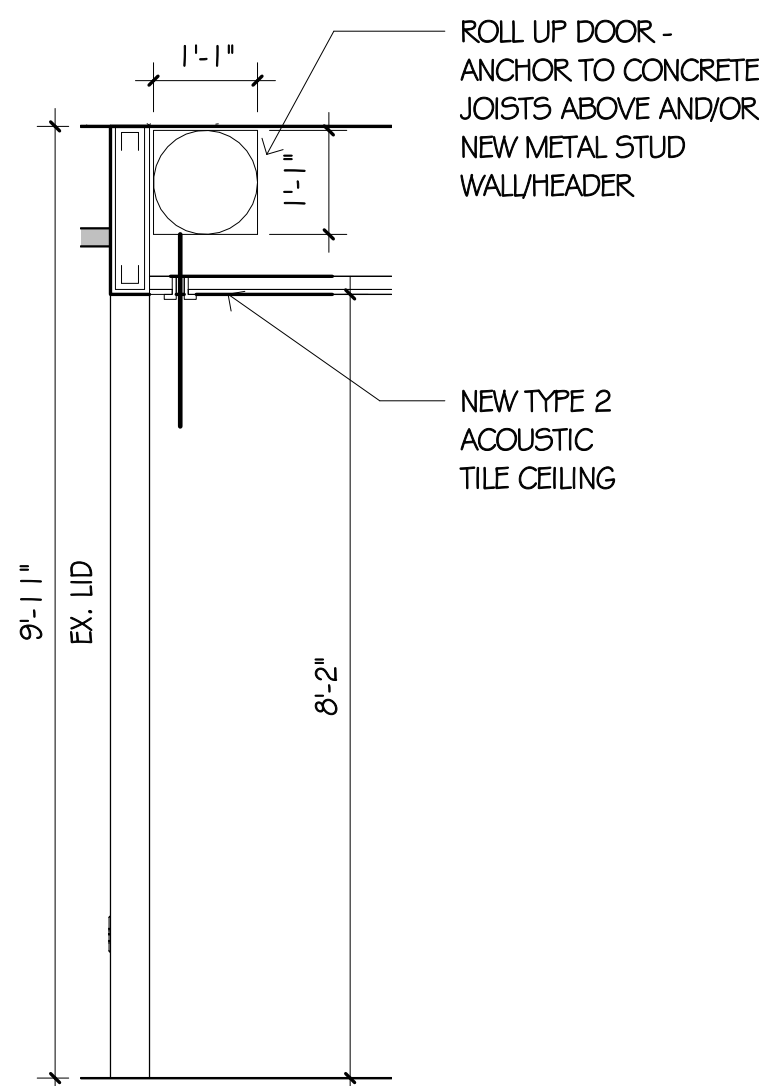
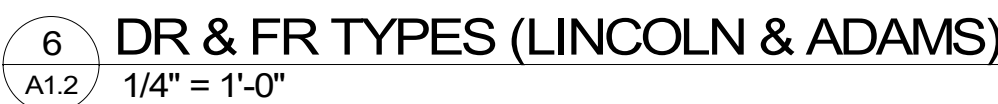
G3. PATCHING AND PAINTING (PT), SHALL BE FROM FLOOR TO CEILING, AND CORNER TO CORNER OF EACH WALL.

G4. WHERE A MATERIAL IS LISTED (SUCH AS VCT, 4" VINYL, CT) IT SHALL BE NEW FOR THE ENTIRE ROOM, UNLESS NOTED OTHERWISE WITH AN RFS NOTE OR LIMITED AREA OF NEW/PATCHING ON THE ARCHITECTURAL DRAWINGS.

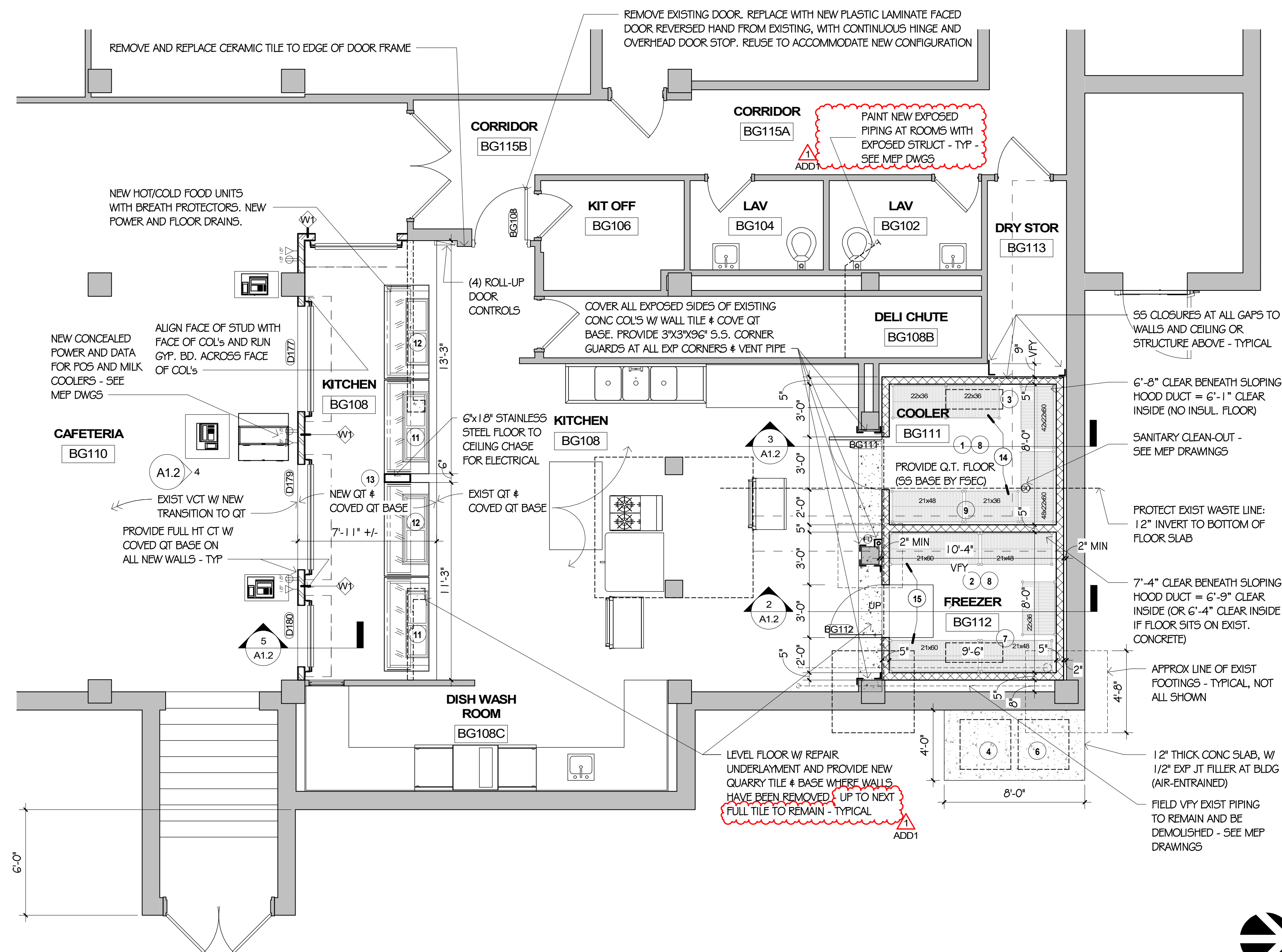
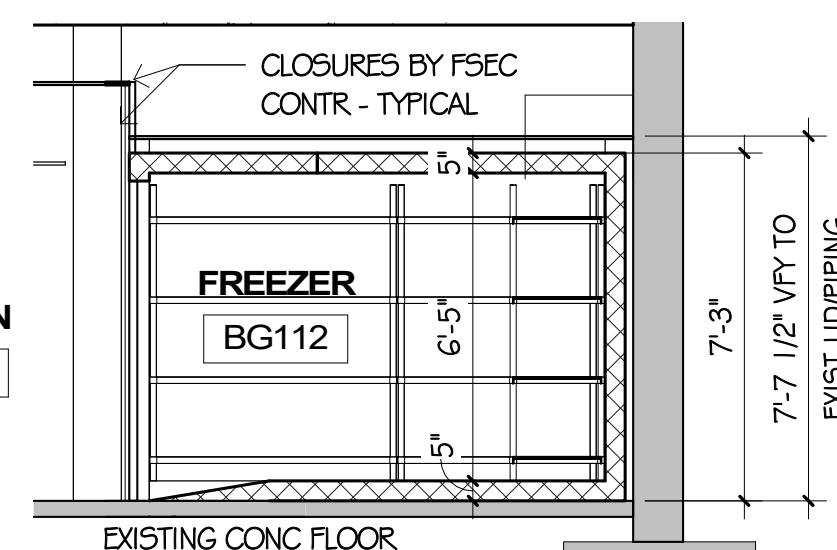
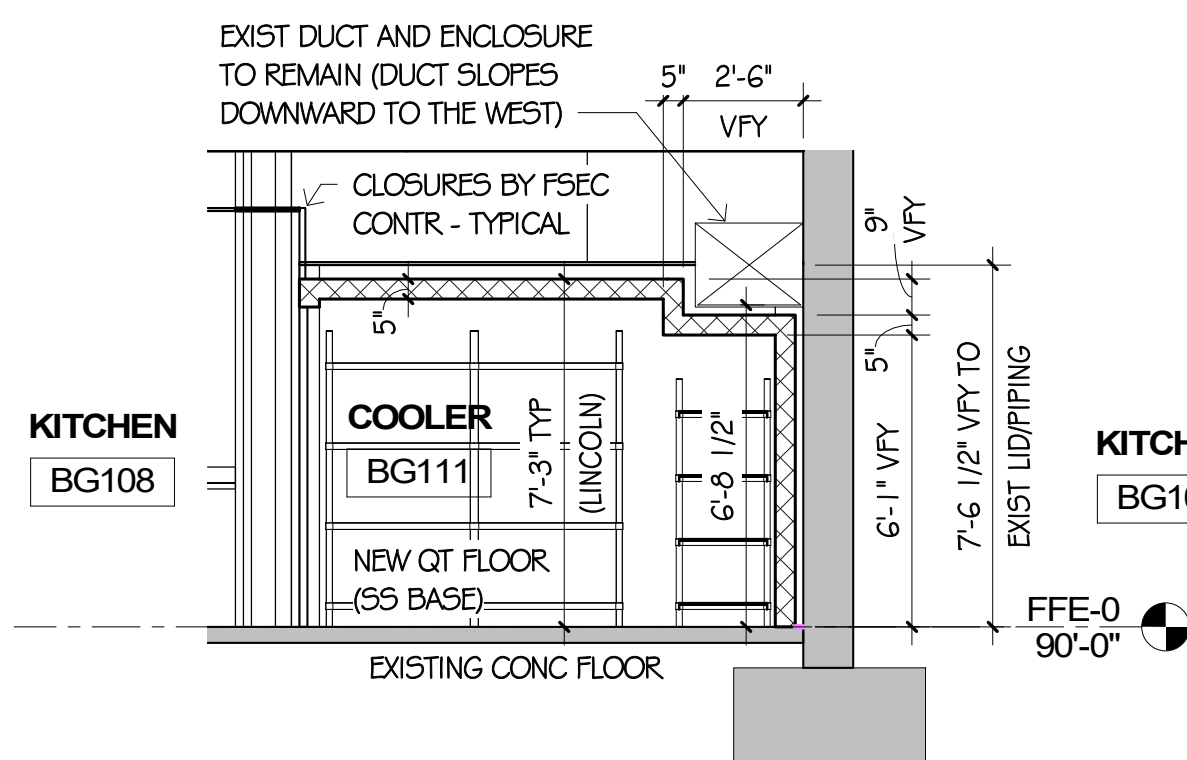
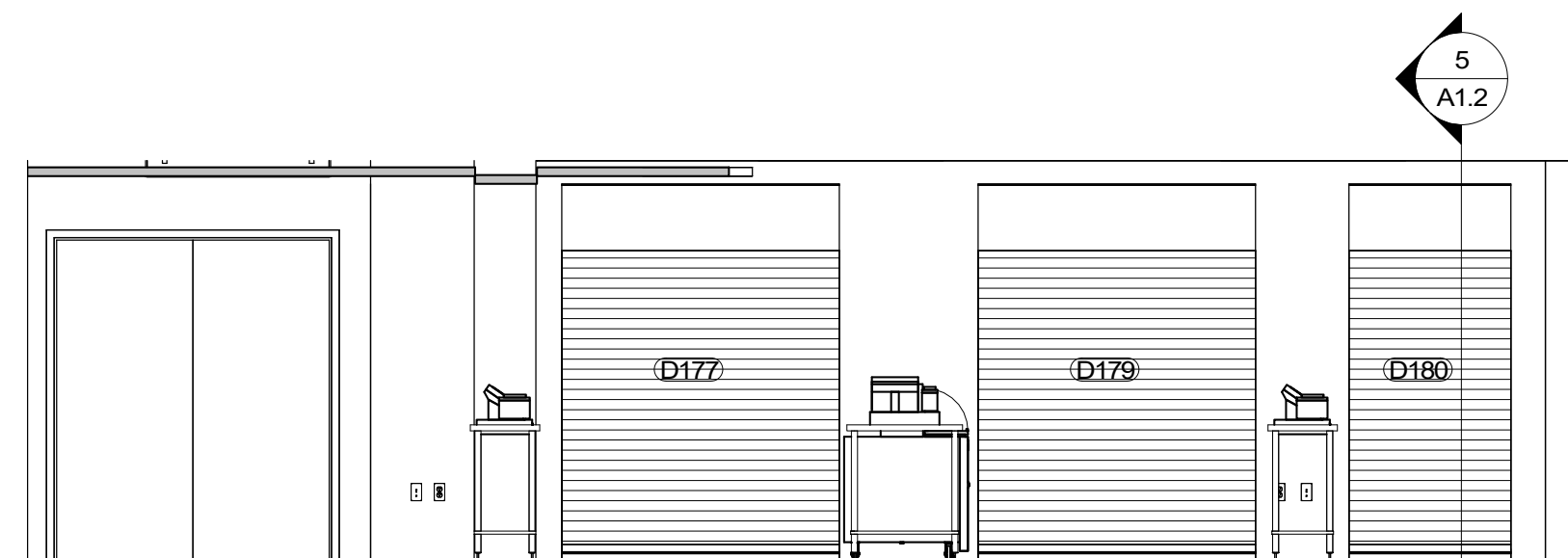
G5. THE DRAWINGS AND/OR PROJECT MANUAL MAY INCLUDE ADD'L LOC'S WHERE NEW FINISHES ARE REQUIRED.

G6. FINISHES IN EA ROOM SHALL APPLY TO ADJ. SPACES, ALCOVES, HALLS, CLOSETS ETC OPEN TO ROOM.

G8. PATCH ALL EXIST PLASTER CEILINGING AFFECTED BY THE WORK THAT REMAINS EXPOSED TO OCCUPIED ROOMS.



KIT EQUIP NOTE (LETTER <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">A</span> IN CIRCLE)	
FSEC EQUIPMENT	
#	DESCRIPTION
1	WALK-IN COOLER BOX
2	WALK-IN FREEZER BOX
3	COOLER COIL
4	COOLER REFRIGERATION SYSTEM (SEE A1.O FOR LOCATION)
6	FREEZER REFRIGERATION SYSTEM (SEE A1.O FOR LOCATION)
7	FREEZER COIL
8	COOLER & FREEZER MOBILE SHELVING
9	COOLER STORAGE DUNNAGE RACK
11	SERVING COUNTER, HOT
12	SERVING COUNTER, COLD
13	STAINLESS STEEL POWER/MECHANICAL CHASE
14	COOLER SHELVING (VFY SIZES)
15	FREEZER DUNNAGE RACKS (VFY SIZES)

[illegible]

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

MICHAEL F. KRAFT  
#23538 1/5/2024  
REG. NO. DATE

CHECKED BY \_\_\_\_\_

DRAWN BY TLH/LSF

DATE	1/5/2024
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PROJECT NO.	230115/2314
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SHEET NO.

## A1.2





612-309-6002  
1442 98<sup>TH</sup> LANE NW • COON RAPIDS, MN 55433  
MIKE@MIKEKRAFTARCHITECTS.COM • WWW.MIKEKRAFTARCHITECTS.COM

LINCOLN AND ADAMS  
ELEMENTARY SCHOOLS  
2024 KITCHEN  
RENOVATIONS

[illegible]

# LINCOLN DEMO & NEW REFLECTED CEILING PLANS

I HEREBY CERTIFY THAT THIS  
PLAN, SPECIFICATION, OR  
REPORT WAS PREPARED BY  
ME OR UNDER MY DIRECT  
SUPERVISION AND THAT I AM A  
DULY LICENSED ARCHITECT  
UNDER THE LAWS OF THE  
STATE OF MINNESOTA.

MICHAEL F. KRAFT	
#23538	1/5/2024
REG. NO.	DATE

CHECKED BY \_\_\_\_\_

DRAWN BY TLH/LSF

DATE 1/5/2024

PROJECT NO. 230115/2314

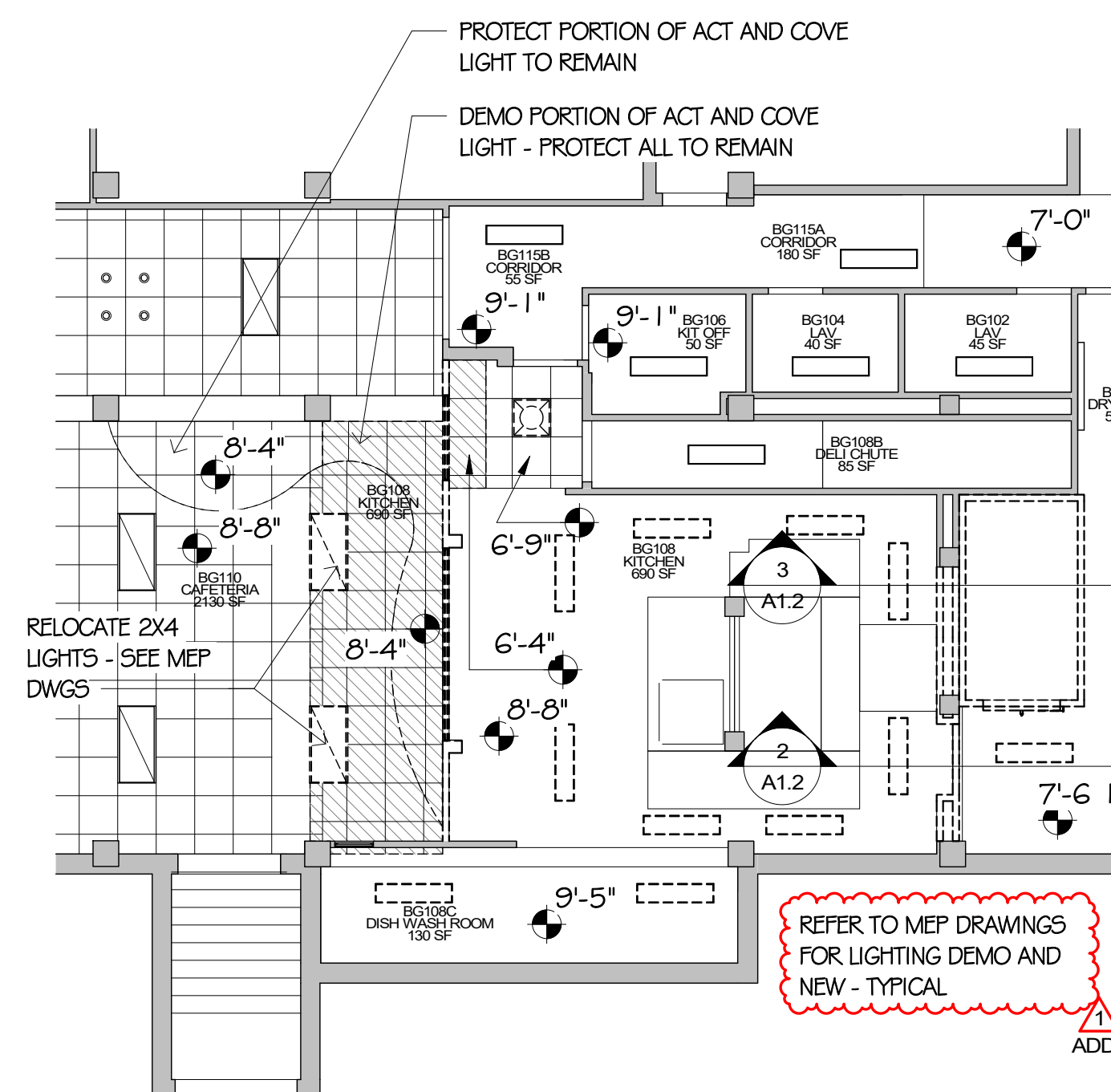
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### A1.3

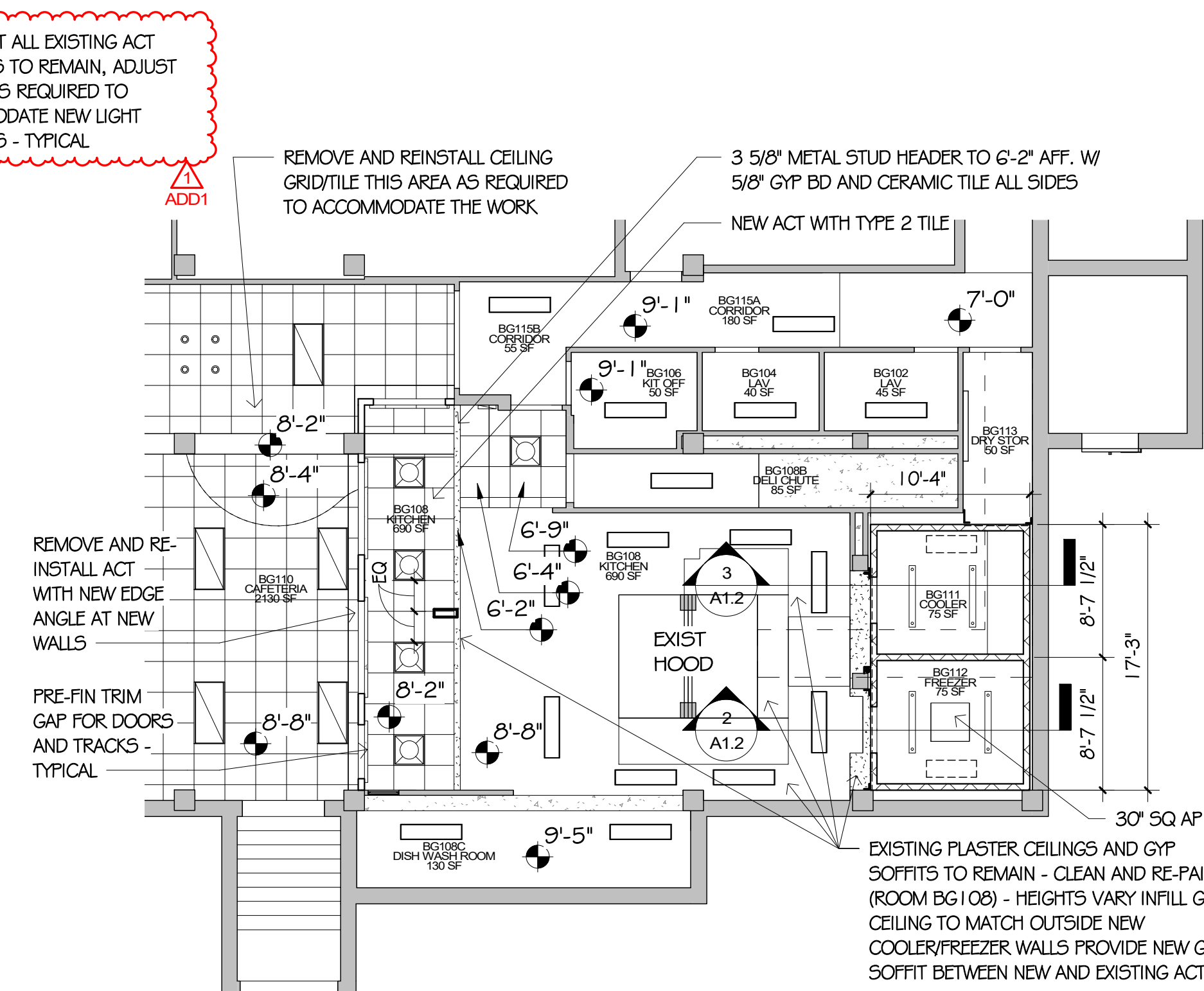


PROJECT NORTH

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2 LINCOLN - DEMO RCP  
A1.3 1/8" = 1'-0"



1 LINCOLN - NEW RCP  
A1.3 1/8" = 1'-0"



1442 98<sup>TH</sup> LANE NW • COON RAPIDS, MN 55433  
MIKE@MIKEKRAFTARCHITECTS.COM • WWW.MIKEKRAFTARCHITECTS.COM

# LINCOLN AND ADAMS ELEMENTARY SCHOOLS 2024 KITCHEN RENOVATIONS

[illegible]

# ADAMS DEMOLITION FLOOR PLAN

I HEREBY CERTIFY THAT THIS  
PLAN, SPECIFICATION, OR  
REPORT WAS PREPARED BY  
ME OR UNDER MY DIRECT  
SUPERVISION AND THAT I AM A  
DULY LICENSED ARCHITECT  
UNDER THE LAWS OF THE  
STATE OF MINNESOTA.

MICHAEL F. KRAFT	
#23538	1/5/2024
REG. NO.	DATE

CHECKED BY LSF

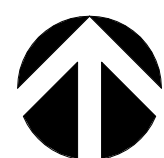
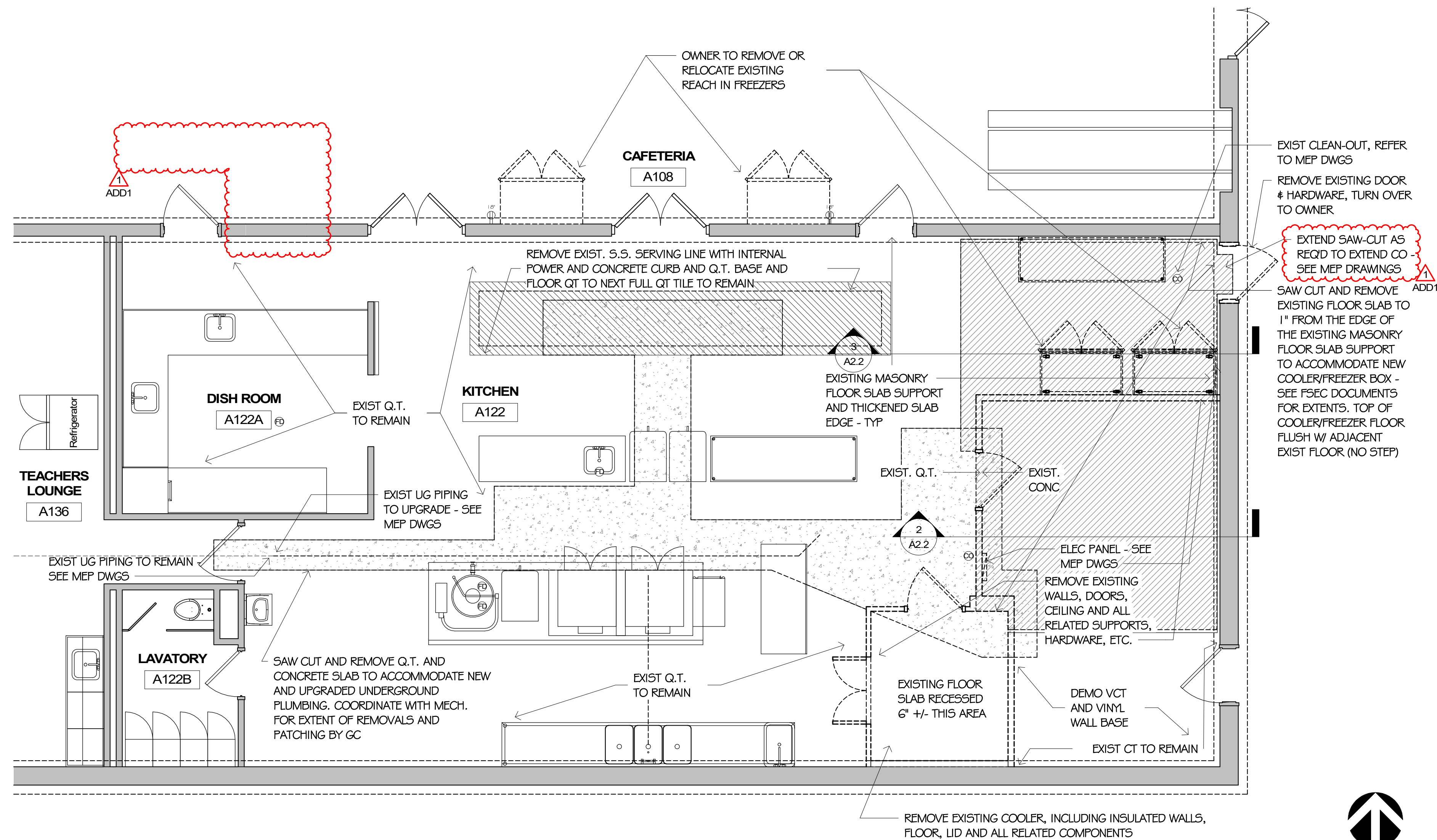
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TLH

DATE	1/5/2024
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PROJECT NO.	230116/2313
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SHEET NO.

**A2.1**

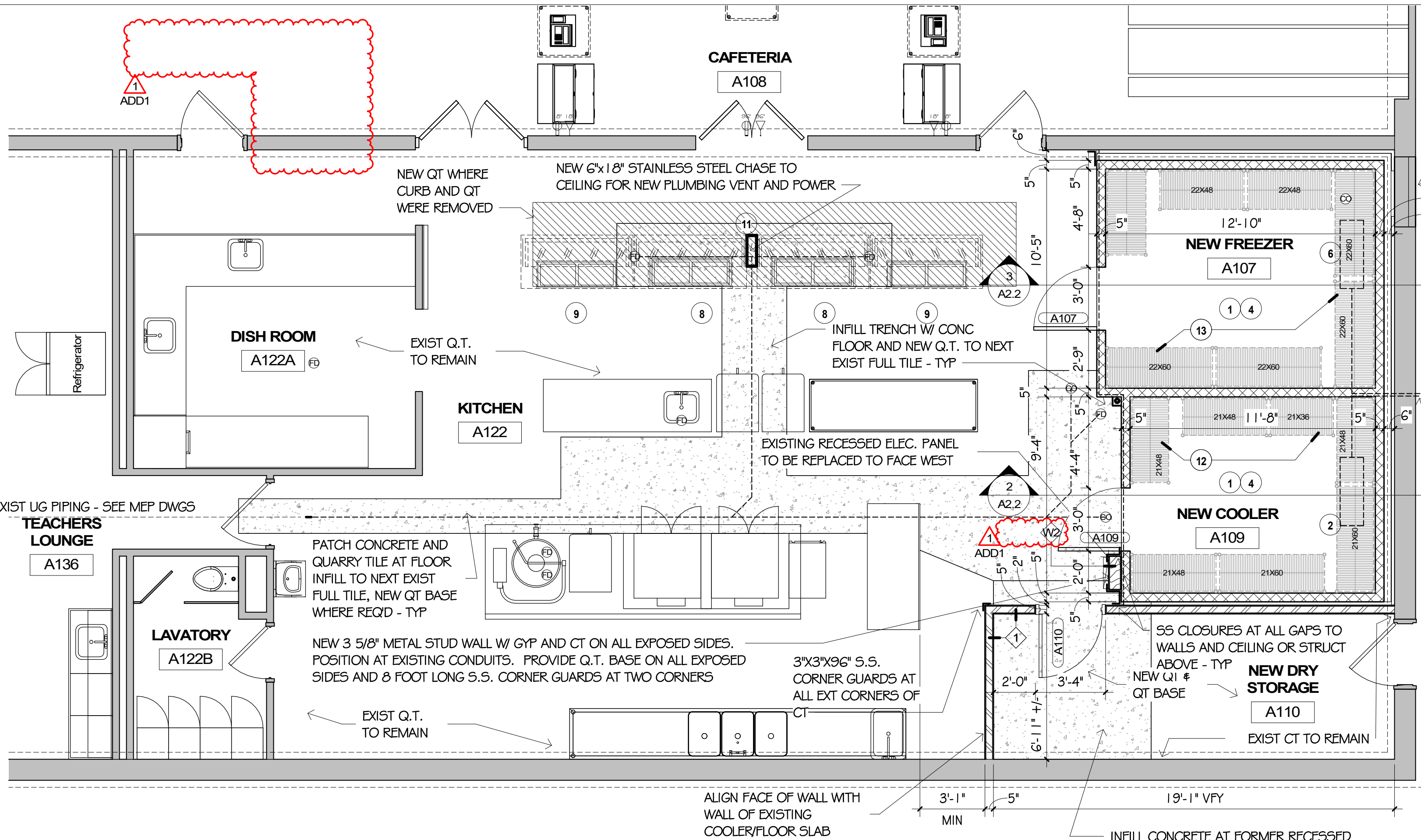


PROJECT NORTH

1 ADAMS - DEMOLITION FLOOR PLAN  
A2.1 1/4" = 1'-0"

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ADAMS OPENING SCHEDULE (OPS)										
Door Number	DOOR					HDWR GROUP	FRAME			OPS COMMENTS
	Width	Height	Thickness	Type	Material		TYPE	MATE RIAL	FINISH	
A107	3'-0"	7'-0"	2"	~	INSUL	~	~	~	~	3
A109	3'-0"	7'-0"	2"	~	INSUL	~	~	~	~	3
A110	3'-0"	7'-0"	1 3/4"	A	WOOD	A1	1	HM	PT	2

ADAMS OPS COMMENTS:

1. NOT USED
2. NEW HM FRAME IN NEW 4 7/8" WALL - 5 3/4" STANDARD FRAME DEPTH W/ STUD ANCHORS.
3. COOLER/FREEZER DOORS BY SECTION 114000 - VERIFY DOOR THICKNESS, HEIGHT AND WIDTH W/ FSEC

ADAMS HARDWARE GROUPS:

- A1 - HINGES, CLASSROOM LOCKSET, OVERHEAD STOP, KICKPLATE  
A2 - NOT USED

FSEC TO REMOVE EXISTING ACOUSTIC TILE CEILING AS NEEDED AND RUN LINE SETS ABOVE EXISTING HALLWAY CEILING FROM THE NEW COOLER/FREEZER COILS TO THE REFRIGERATION UNITS TO BE LOCATED IN THE BOILER ROOM. WORK IS TO BE COORDINATED WITH EXISTING CONDITIONS AND MAY REQUIRE ADDITIONAL TURNS AND/OR LENGTH OF MATERIAL TO ACCOMMODATE EXISTING PIPES, DUCTS, ETC. FSEC TO REINSTALL CEILING TO MATCH EXISTING CONDITIONS

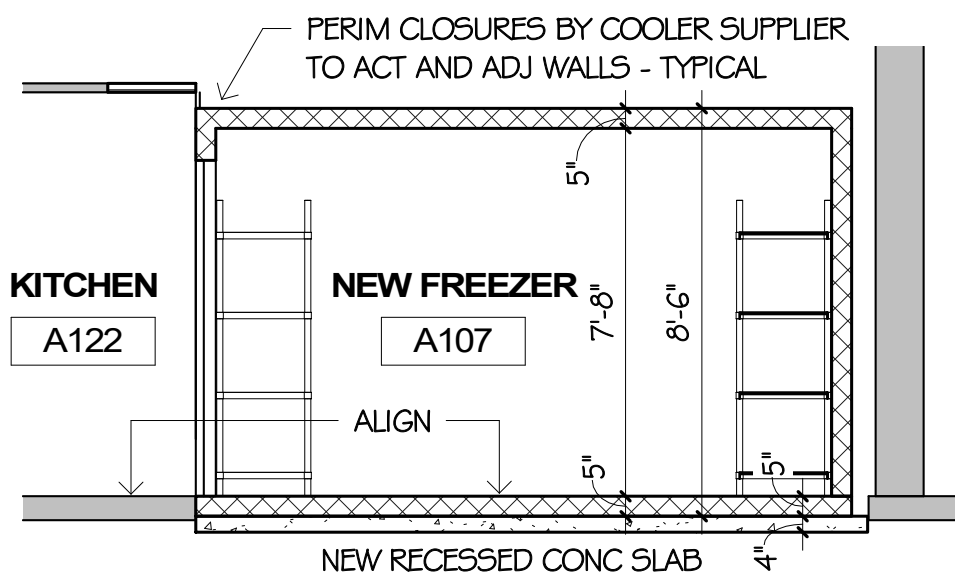
ADAMS ROOM FINISH SCHEDULE (RFS)						
ROOM NO	ROOM NAME	FLOOR (FIN)	WALL BASE	WALL (FIN)	CEILING (FIN)	RFS COMMENTS
A107	NEW FREEZER	BY 114000	BY 114000	BY 114000	BY 114000	F
A108	CAFETERIA	EX QT	EX	EX GMU	EX ACT	C
A109	NEW COOLER	BY 114000	BY 114000	BY 114000	BY 114000	F
A110	NEW DRY STORAGE	QT	QT	EX CT/EX/GYP (~PT/PT)	ACT 2	A
A122	KITCHEN	EX QT/QT	EX QT/QT	EX CT/CT	EX ACT	A,B,C
A122A	DISH ROOM	EX QT/QT	EX QT/QT	EX CT/CT	EX ACT	A,B,C
A122B	LAVATORY	EX	EX	EX	EX	E
A136	TEACHERS LOUNGE	EX	EX	EX	EX	E

ROOM FINISH GENERAL NOTES (APPLY TO ALL ROOMS)

- G1. EX REFERS TO EXISTING FINISH, NO WORK REQUIRED UNLESS NOTED OTHERWISE (E.G. PATCHING FOR MEP WORK) OR WHERE AFFECTED BY GENERAL DEMOLITION OR CONSTRUCTION. (NOTE: FINISHES VARY)
- G2. WHERE "PATCH" IS USED, VERIFY EXISTING MATERIALS IF NOT NOTED, AND PATCH TO MATCH EXIST WHERE AFFECTED BY DEMO AND/OR NEW WORK - MATERIALS MAY VARY.
- G3. PATCHING AND PAINTING (PT), SHALL BE FROM FLOOR TO CEILING, AND CORNER TO CORNER OF EACH WALL.
- G4. WHERE A MATERIAL IS LISTED (SUCH AS VCT, 4" VINYL, CT) IT SHALL BE NEW FOR THE ENTIRE ROOM, UNLESS NOTED OTHERWISE WITH AN RFS NOTE OR LIMITED AREA OF NEW/PATCHING ON THE ARCHITECTURAL DRAWINGS.
- G5. THE DRAWINGS AND/OR PROJECT MANUAL MAY INCLUDE ADD'L LOC WHERE NEW FINISHES ARE REQUIRED.
- G6. FINISHES IN EA ROOM SHALL APPLY TO ADJ SPACES, ALCOVES, HALLS, CLOSETS ETC OPEN TO ROOM.
- G8. PATCH ALL EXIST PLASTER CEILINGS AFFECTED BY THE WORK THAT REMAIN EXPOSED TO OCCUPIED ROOMS.

ROOM FINISH SCHEDULE NOTES

- A. PAINT ALL FRAMES, AND ALL WALL AND CEILING SURFACES THAT DO NOT HAVE A FACTORY FINISH. PROVIDE EPOXY PAINT AT ALL NEW AND EXISTING GYP BD, CONCRETE COLS, AND/OR PLASTER WOUT CT. PROVIDE CT AS SHOWN/NOTED ON RFS AND FLOOR PLANS.
- B. PATCH CONC FLOOR, VCT & QT FLOOR/BASE WHERE DISTURBED BY WORK
- C. REPAIR/REPLACE CEILING, FLOOR & WALL FINISHES WHERE DISTURBED BY WORK (TYPE VARIES)
- D. PROVIDE ADA/ACCESSIBLE COMPLIANT RUBBER TRANSITION(S) BETWEEN FLOOR FINISHES (VARIES).
- E. NO GENERAL DEMO OR CONSTRUCTION WORK THIS ROOM. MEP OR OTHER CONTRACTORS SHALL REMOVE, PATCH AND RESTORE ALL FINISHES AS REQUIRED TO COMPLETE THEIR WORK IN THIS ROOM.
- F. ALL FINISHES IN COOLER/FREEZER BY 11400 EXCEPT QT FLOORS AS SCHED.

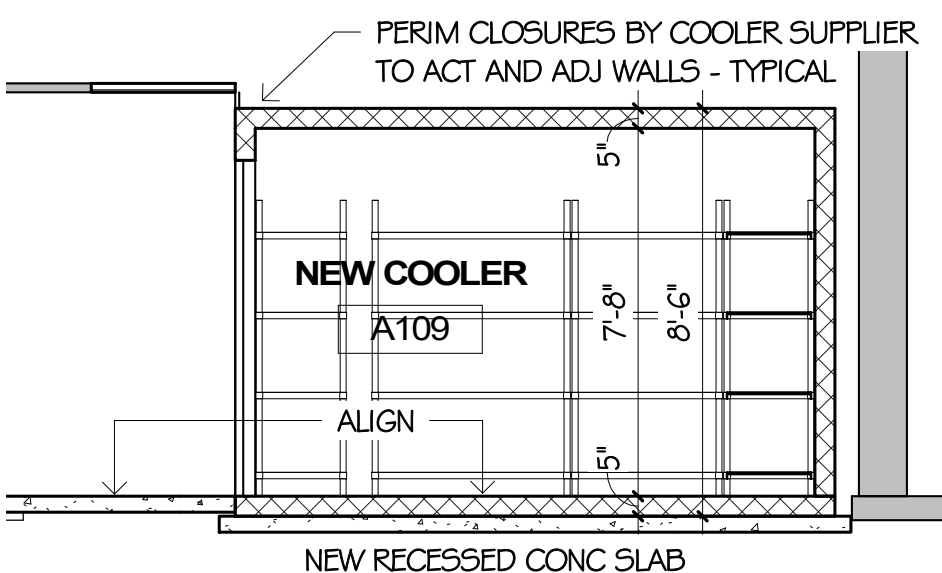


3 ADAMS - FREEZER SECTION  
1/4" = 1'-0"

KIT EQUIP NOTE  
(LETTER IN CIRCLE)

FSEC EQUIPMENT	
#	DESCRIPTION
1	WALK-IN FREEZER & COOLER BOX
2	COOLER COIL
3	COOLER CONDENSING SYSTEM (SEE T1.0 FOR LOCATION)
4	COOLER/FREEZER SHELVING
6	FREEZER COIL
7	FREEZER CONDENSING UNIT (SEE T1.0 FOR LOCATION)
8	SERVING COUNTER, HOT
9	SERVING COUNTER, COLDZE
11	STAINLESS STEEL POWER/MECHANICAL CHASE
12	COOLER SHELVING (VFY SIZES)
13	FREEZER DUNNAGE RACKS (VFY SIZES)

1 ADAMS - NEW FLOOR PLAN  
1/4" = 1'-0"



2 ADAMS - COOLER SECTION  
1/4" = 1'-0"

EXIST HALLWAY

EXIST CUSTODIAL

EXIST UPPER BOILER ROOM

EXIST LOWER BOILER ROOM

THE CONTRACTOR SHALL PROVIDE A TOTAL OF SIX (6) 4" DIAMETER CORE DRILLED HOLES ABOVE THE CEILINGS ALONG THE CONDENSER LINE ROUTE FROM THE NEW COOLER/FREEZER TO THE CONDENSER LOCATION IN THE BOILER ROOM. IT IS TO BE ASSUMED THAT FOUR OF THE NEW HOLES ARE THROUGH ONE-HOUR FIRE RATED WALLS AND SHALL BE FILLED TO MEET APPLICABLE CODES REGARDING PENETRATIONS IN FIRE RATED WALLS

NOTE: AT NEW ROOF PENETRATIONS AND/OR MECH CURBS (REFER TO MEP DRAWINGS) EXISTING ROOF IS A SBS MODIFIED BITUMEN ROOFING SYSTEM - OWNER'S ROOFING CONSULTANT WILL PROVIDE FINAL ROOF CURB FLASHING ONTO TO CURB/CANTS/BLOCKING BY CONTRACTOR, AND MAKE THE TIE-IN TO EXISTING ROOFING

VERIFY EXACT LOCATION IN LOWER BOILER ROOM - REFER TO MEP DRAWINGS

No.	Description	Date
1	ADD1	1/5/2024

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

MICHAEL F. KRAFT  
#23538 1/5/2024  
REG. NO. DATE

CHECKED BY MK

DRAWN BY TLH

DATE 1/5/2024

PROJECT NO. 230116/2313

SHEET NO.

A2.2





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LINCOLN AND ADAMS  
ELEMENTARY SCHOOLS  
2024 KITCHEN  
RENOVATIONS

[illegible]

## ADAMS DEMO & NEW REFLECTED CEILING PLANS

I HEREBY CERTIFY THAT THIS  
PLAN, SPECIFICATION, OR  
REPORT WAS PREPARED BY  
ME OR UNDER MY DIRECT  
SUPERVISION AND THAT I AM  
DULY LICENSED ARCHITECT  
UNDER THE LAWS OF THE  
STATE OF MINNESOTA.

MICHAEL F. KRAFT	
#23538	1/5/202
REG. NO.	DAT

CHECKED BY \_\_\_\_\_

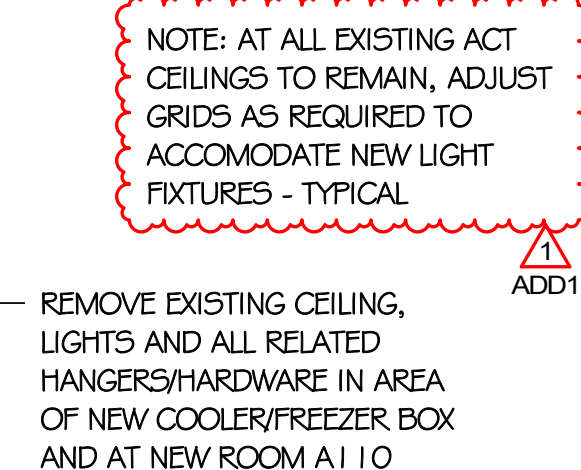
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DATE 1/5/202

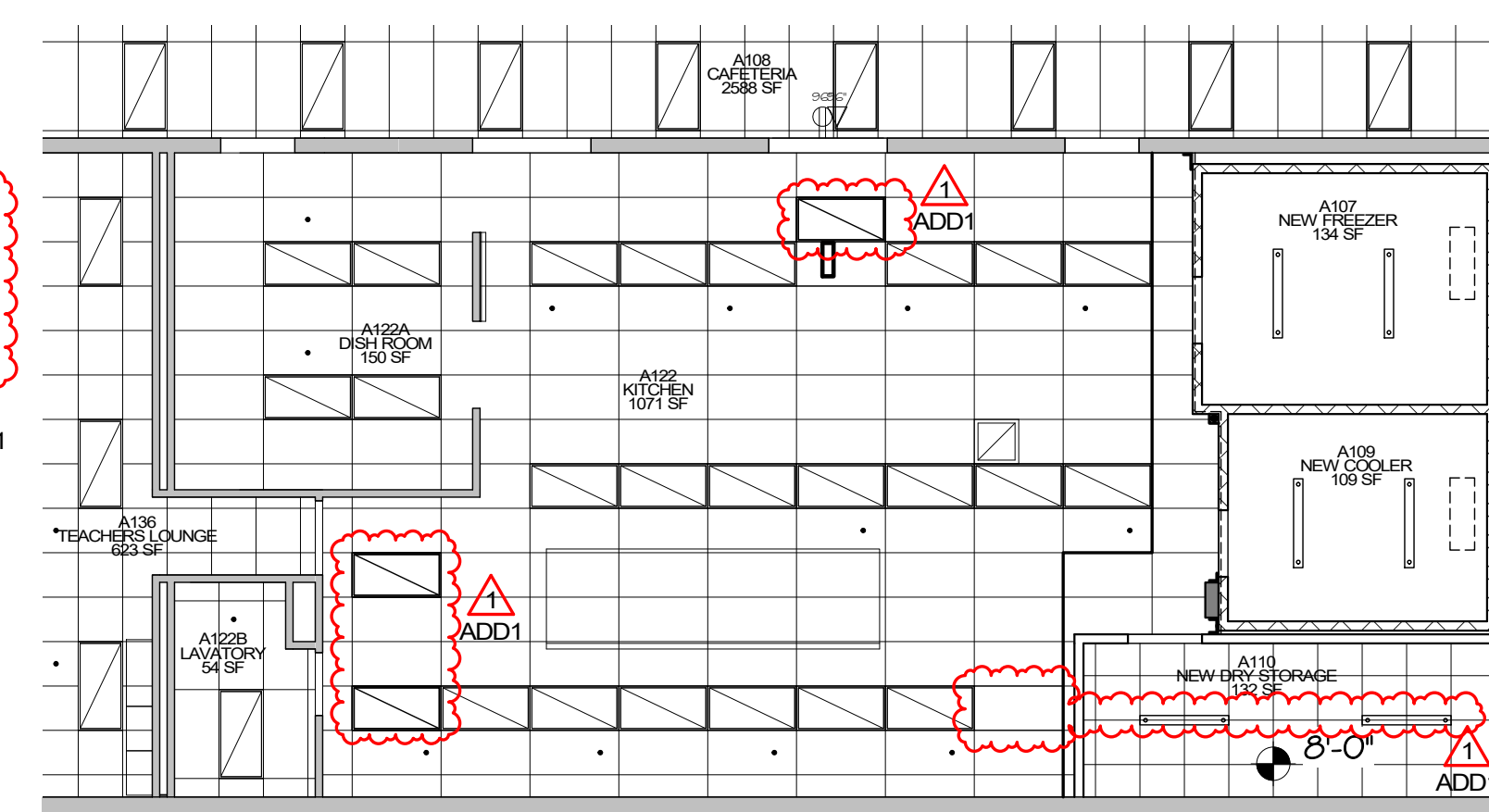
PROJECT NO. 230116/231

SHEET NO.

## A2.3



— REMOVE EXISTING CEILING,  
LIGHTS AND ALL RELATED  
HANGERS/HARDWARE IN AREA  
OF NEW COOLER/FREEZER BOX  
AND AT NEW ROOM A110



PROJECT NORTH

2 ADAMS - DEMO RCP  
A2.3 1/8" = 1'-0"

1 ADAMS - NEW RCP  
A2.3 1/8" = 1'-0"

1/5/2024 2:47:13 PM



GENERAL NOTES - FIRE PROT.

- A. PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES. PROVIDE A COMPLETE WET TYPE SYSTEM INCLUDING NEW MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. REUSE EXISTING SYSTEM EQUIPMENT WHERE APPLICABLE. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.
- B. THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.
- C. THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK.
- D. THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE.
- E. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.
- F. DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.
- G. ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.
- H. THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
- I. AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.
- J. AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.
- K. AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER.
- L. SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.

GENERAL NOTES - FIRE PROT.

- M. ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM.
- N. THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- O. THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.

SPRINKLER INSTALL. NOTES

1. CONTRACTOR TO COORDINATE SPRINKLER SYSTEM INSTALLATION WITH SUSPENDED GYP BOARD AND/OR LAY-IN CEILING SYSTEMS. COORDINATE HEAD LAYOUT WITH LIGHT FIXTURES, AIR DIFFUSERS, GRILLES, REGISTERS AND CHANGES IN CEILING ELEVATION, ETC.
2. MODIFY EXISTING SPRINKLER SYSTEM TO COMPLY WITH NEW WALLS, DUCTWORK, AND/OR PIPING IN THIS ROOM. REFER TO MECHANICAL DRAWINGS FOR NEW DUCTWORK AND PIPING LAYOUTS.
3. COORDINATE SPRINKLER SYSTEM INSTALLATION WITH WALK-IN COOLER AND FREEZER. SEAL PIPE/HEAD PENETRATIONS WATER TIGHT TO AVOID CONDENSATION.
4. RELOCATE/OFFSET SPRINKLER PIPING TO BE 10' AWAY FROM ROOF OPENINGS OR PROVIDE INSULATION PER 23 07 19. ADJUST/ADD UPRIGHT HEADS AS REQUIRED TO ACCOMMODATE NEW EQUIPMENT, DUCTWORK, AND PIPING.

FIRE PROT. COVERAGE NOTES

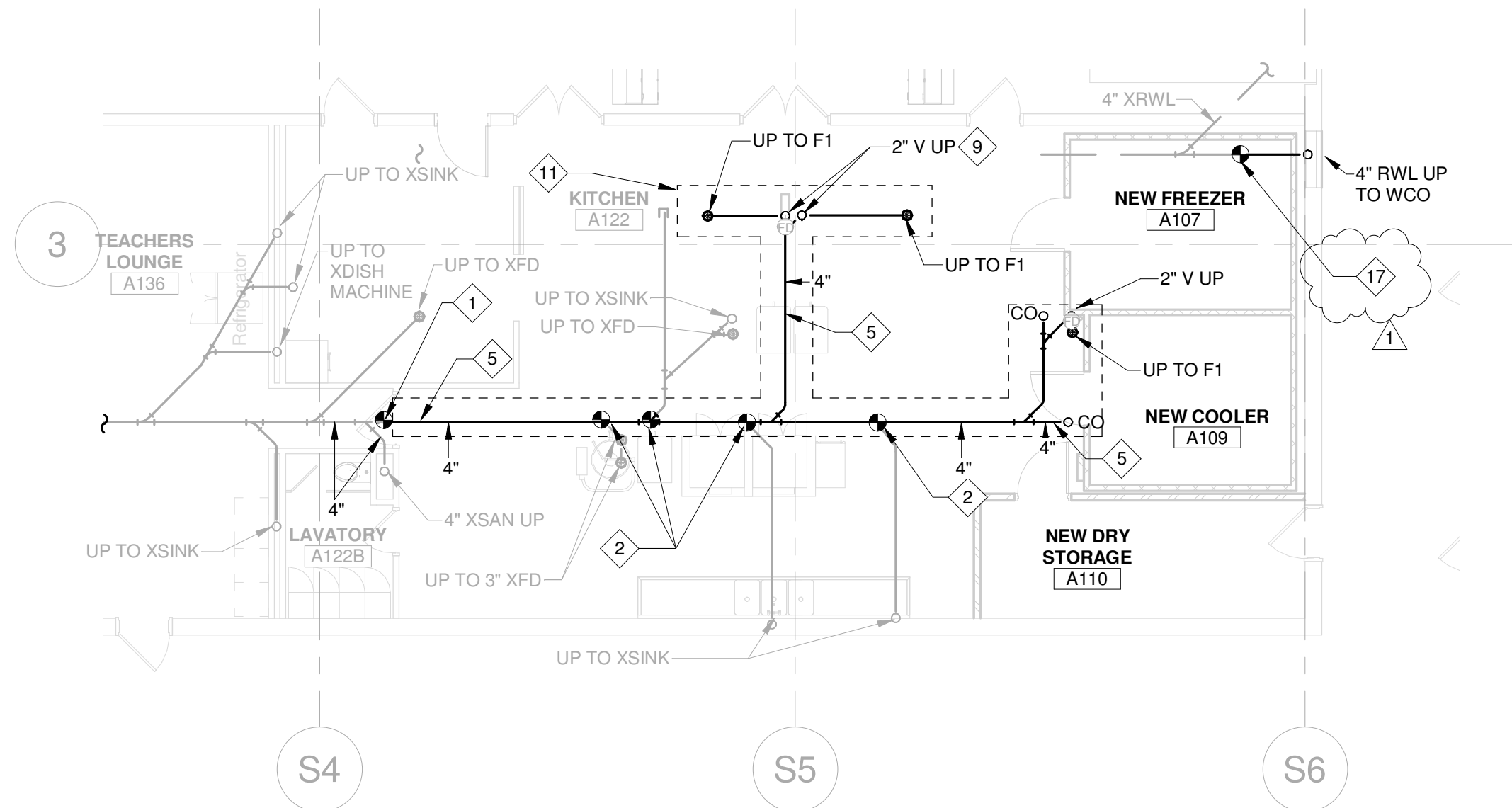
1. FIRE PROTECTION AREA SHALL HAVE LIGHT HAZARD COVERAGE WITH SEMI-RECESSED PENDENTS AND CHROME ESCHUTCHEONS.
2. FIRE PROTECTION AREA SHALL HAVE ORDINARY HAZARD GROUP 2 COVERAGE WITH SEMI-RECESSED PENDENTS AND CHROME ESCHUTCHEONS.
3. FIRE PROTECTION AREA SHALL HAVE ORDINARY HAZARD GROUP 2 COVERAGE WITH FREEZE-PROOF HEADS.

GENERAL NOTES

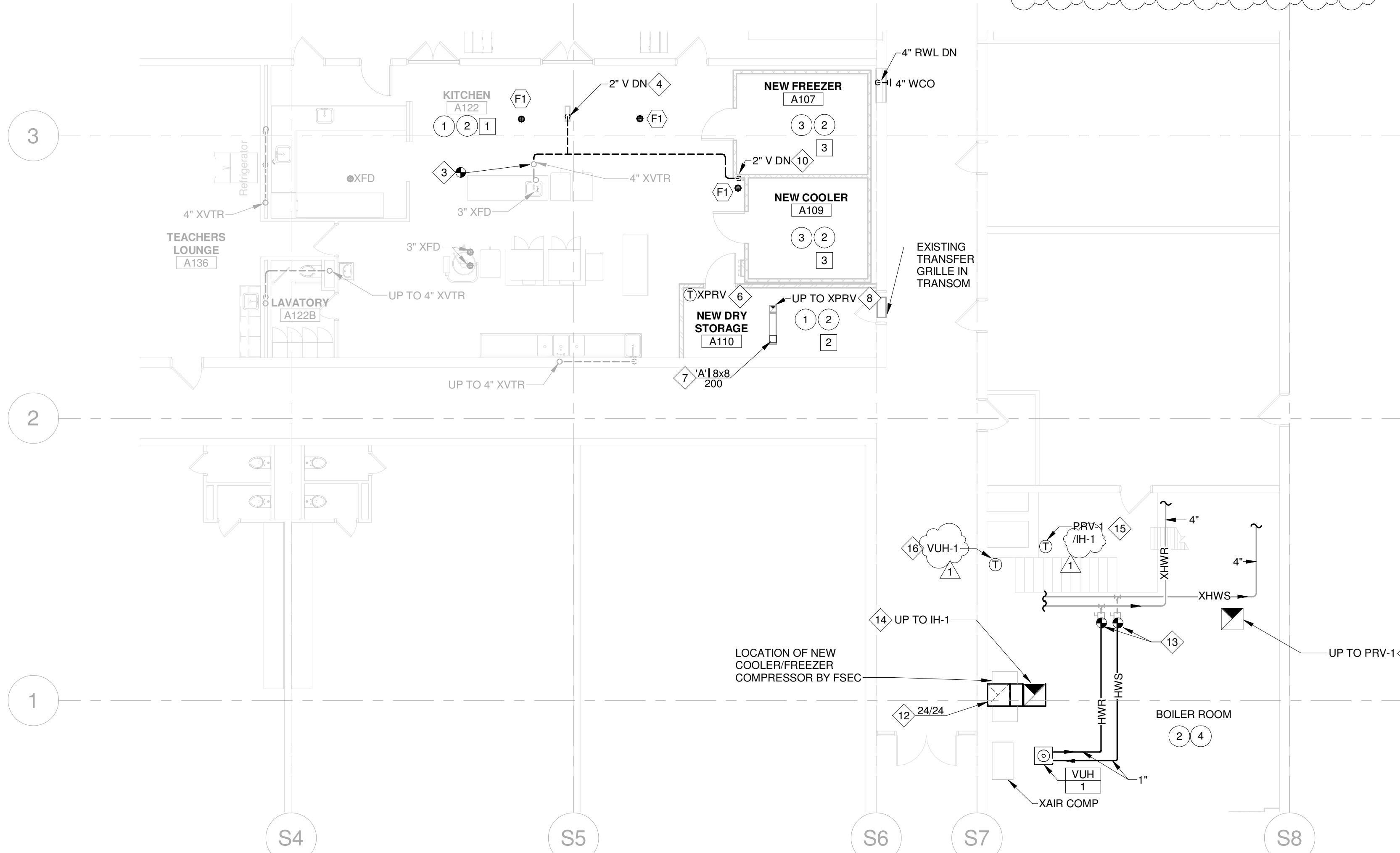
- A ALL WORK SHOWN AND NOTED ON THIS PLAN IS TO BE PROVIDED IN COMPLIANCE WITH THE STATE BUILDING CODES AND ALL OTHER APPLICABLE LOCAL CODES.
- B ALL EQUIPMENT, INSTALLATION AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE OWNER CRITERIA.
- C REFER TO ARCHITECTURAL DRAWINGS FOR ALL CEILING TYPES, CEILING HEIGHTS, AND COORDINATED CEILING LAYOUT.
- D COORDINATE INSTALLATION OF ALL NEW PIPING WITH STRUCTURAL ELEMENTS AND ALL NEW DUCTWORK, CEILINGS, LIGHTS, ETC.
- E COORDINATE WITH ARCHITECTURAL DRAWINGS ON REQUIREMENTS FOR ALL CHASES, WALLS, FURROUTS, ETC. REQUIRED FOR DUCTWORK AND PIPING.
- F INSTALL ALL EQUIPMENT AND HORIZONTAL PIPING AS HIGH AS POSSIBLE UP TIGHT TO STRUCTURE.
- G PROVIDE FIRESTOPPING FOR ALL OPENINGS THRU FIRE-RATED ASSEMBLIES.
- H REFER TO FLOOR DRAIN SCHEDULES FOR PIPE SIZES TO INDIVIDUAL FIXTURES.
- I PITCH ALL UNDERFLOOR SANITARY PIPING AT 1/4" PER FOOT (MIN.) UNLESS NOTED OTHERWISE.
- J PROVIDE ALL EXPOSED PIPES WITH A FINISH SUITABLE AND READY FOR FIELD PAINTING.

KEYNOTES

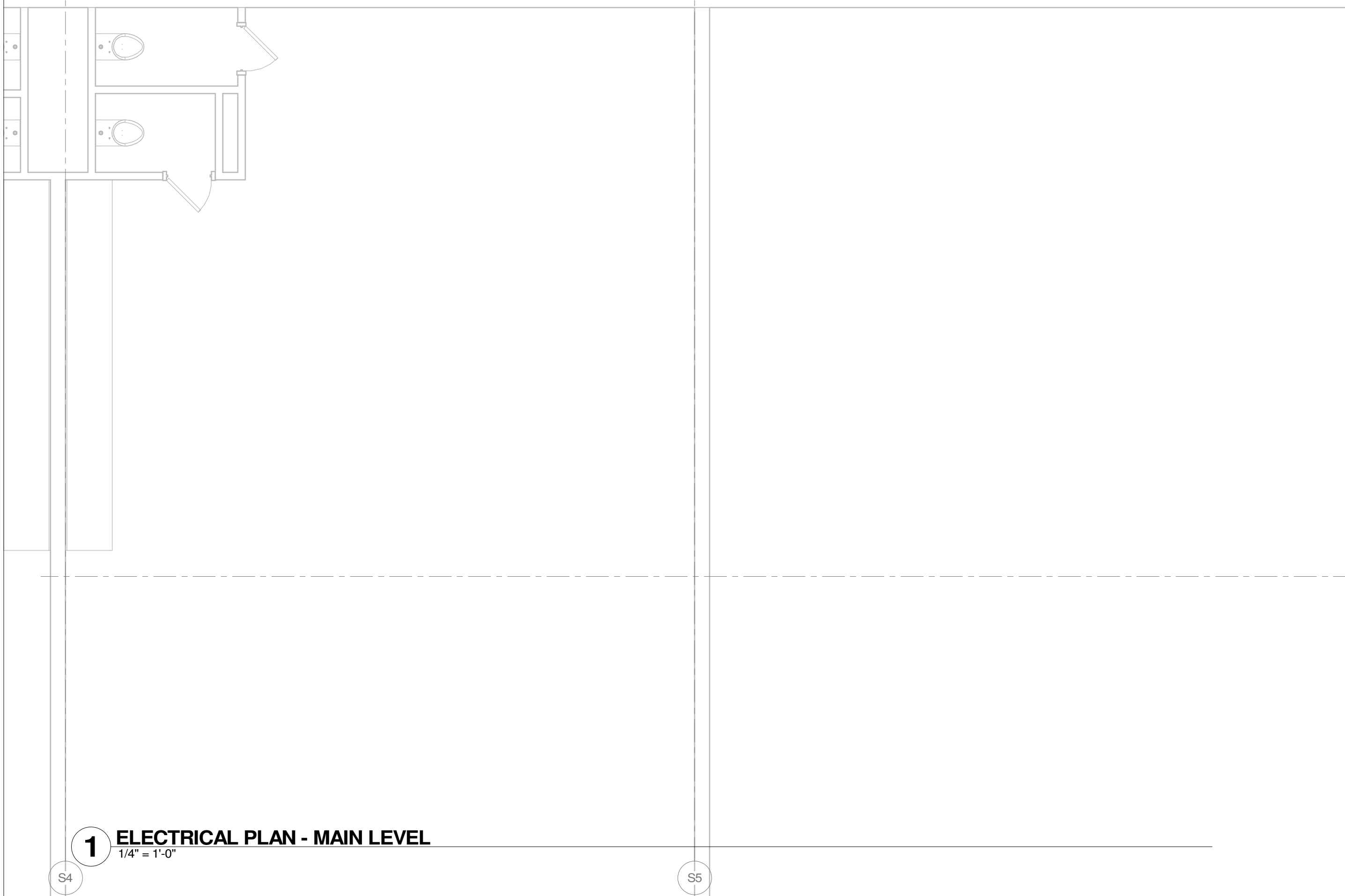
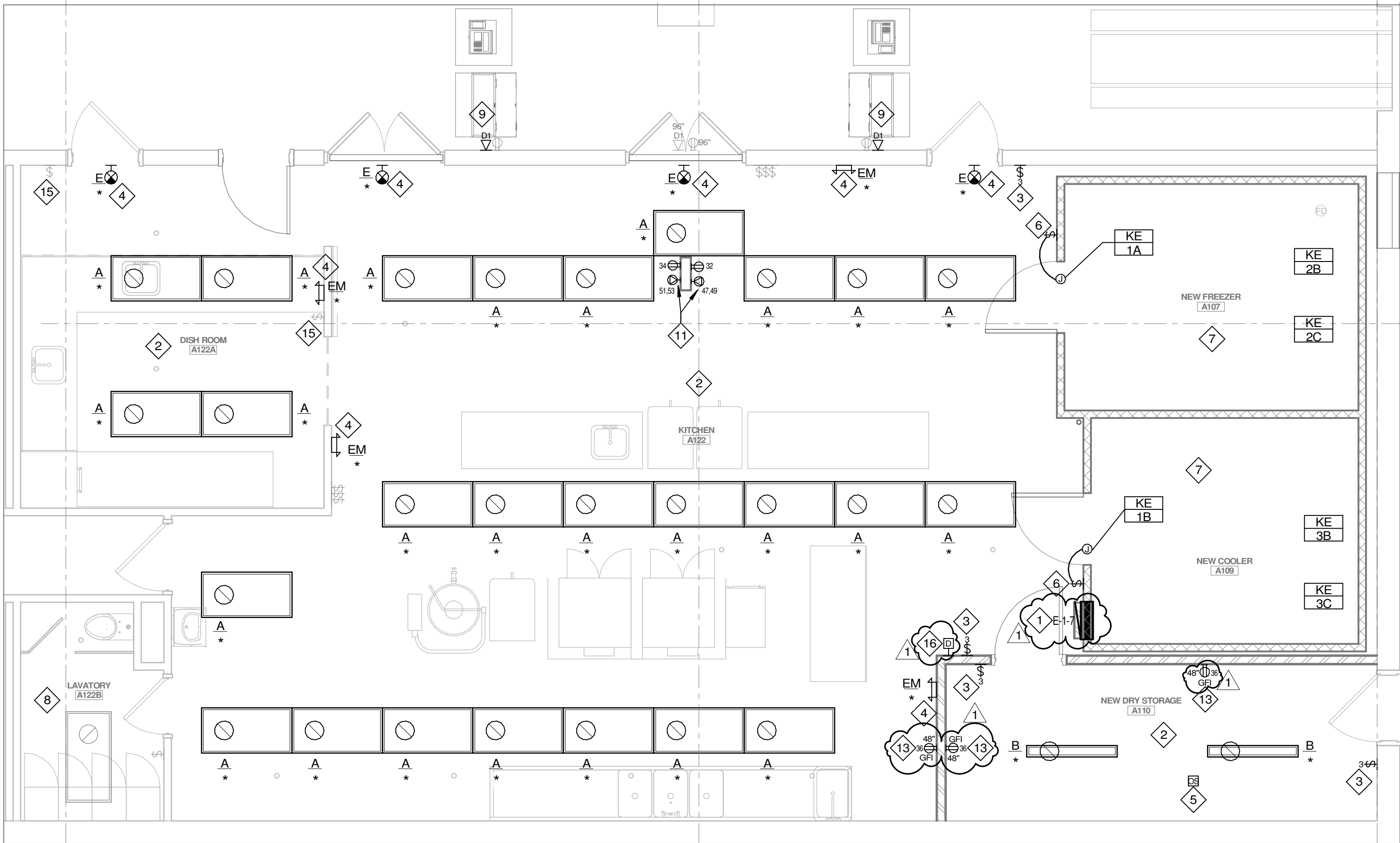
- 1 CONNECT TO EXISTING 4" SAN AND EXTEND AS INDICATED. PROVIDE CLEANOUT FOR TESTING.
- 2 RECONNECT EXISTING 3" BRANCH TO NEW 4" SAN MAIN.
- 3 CONNECT NEW 2" VENT TO EXISTING 4" VTR
- 4 EXTEND (2) 2" VENTS TO MINIMUM OF 6" A.F.F. WITHIN CHASE. THEN CONNECT TOGETHER AND ROUTE (1) 2" V TO CEILING. CHASE BY FSEC.
- 5 SLOPE NEW 4" SAN AT 1/8"/FT. TO MATCH SLOPE OF 3" MAIN REMOVED.
- 6 PROVIDE NEW ELECTRIC THERMOSTAT W/ TEMPERATURE ADJUSTABLE DIAL. PROVIDE NEW WIRING TO EXISTING PRV. IF EXISTING PRV OR DAMPER HAS PNEUMATIC CONTROLS, PROVIDE EP SWITCH AS REQUIRED. FAN TO BE CONTROLLED BY THERMOSTAT.
- 7 PROVIDE NEW GRILLE IN NEW CLG. MODIFY BRANCH DUCT AND MAKE CONNECTION.
- 8 REBALANCE PRV TO 200 CFM.
- 9 COORDINATE LOCATION OF RISE WITH S/S CHASE ABOVE.
- 10 ROUTE VENT IN S/S CHASE. CHASE PROVIDED BY FSEC.
- 11 APPROXIMATE EXTENT OF SAWCUTTING. COORDINATE WITH G.C.
- 12 DROP MAKE-UP AIR DOWN TO BE 3' ABOVE CONDENSING UNITS. COORDINATE WITH FSEC. PROVIDE EXPANDED METAL ACROSS OPENING. PROVIDE 2 LAYERS OF EXTERNAL INSULATION ON ENTIRE LENGTH OF DUCTWORK. COORDINATE ROUTE WITH EXISTING BOILER FLUE. PROVIDE OFFSET AS REQUIRED.
- 13 CONNECT TO EXISTING 1 1/2" VALVED AND CAPPED STUBS AND EXTEND NEW 1" PIPING AS INDICATED. COORDINATE EXACT ROUTE WITH EXISTING BOILERS AND PIPING. PROVIDE OFFSETS AS REQUIRED.
- 14 COORDINATE LOCATION WITH EXISTING PIPING TO AVOID POSSIBLE FREEZING OF PIPES.
- 15 MOUNT THERMOSTAT FOR PRV ON LANDING IN ACCESSIBLE LOCATION. TAG TO INDICATE OPERATION OF PRV-1/IH-1.
- 16 MOUNT THERMOSTAT FOR IH NEAR BOTTOM OF STAIR IN ACCESSIBLE LOCATION. TAG TO INDICATE OPERATION OF VUH-1.
- 17 CONNECT TO EXISTING RAINWATER LEADER AND EXTEND AS INDICATED



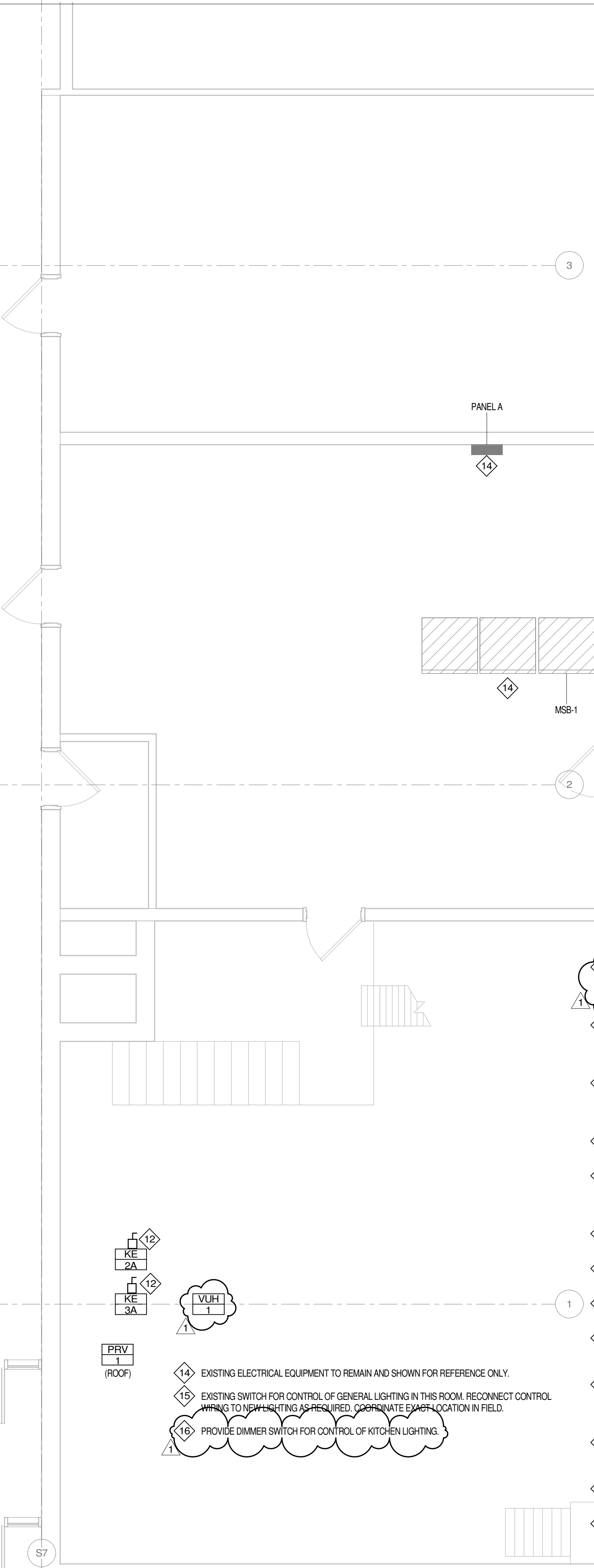
2 UNDERFLOOR MECHANICAL PLAN  
1/8" = 1'-0"



1 MAIN LEVEL MECHANICAL PLAN  
1/8" = 1'-0"



1 ELECTRICAL PLAN - MAIN LEVEL  
1/4" = 1'-0"



GENERAL NOTES:

- PROVIDE ALL CUTTING AND PATCHING OF FLOORS, WALLS OR CEILINGS REQUIRED FOR THE NEW LIGHTING SYSTEMS. MATCH ADJACENT SURFACES.
- PROVIDE #10 AWG WIRING FOR ALL HOME RUNS IN EXCESS OF 80 FEET (120V), IN EXCESS OF 180 FEET (277V), UNLESS NOTED OTHERWISE.
- CONNECT ALL BATTERY POWERED EMERGENCY FIXTURES AND EXIT SIGNS TO UNSWITCHED LIGHTING CIRCUIT SERVING THE AREA OR ROOM IN WHICH THE FIXTURE IS LOCATED.
- COORDINATE ALL LIGHT FIXTURE LOCATIONS WITH STRUCTURE, PIPING, DUCTWORK, ETC. ABOVE SUSPENDED CEILING. REVISE LIGHT FIXTURE LOCATIONS AS REQUIRED TO ACCOMMODATE EXISTING (FIELD) CONDITIONS. MAINTAIN LAYOUT AND LIGHT FIXTURE SPACING AS CLOSE TO DESIGN SHOWN AS POSSIBLE.
- PROVIDE BLANK COVERPLATE FOR ALL UNUSED DEVICE BOXES.
- FOR NEW LIGHTING IN EXISTING AREAS OF THE BUILDING, REUSE EXISTING LIGHTING BRANCH CIRCUITS UNLESS NOTED OTHERWISE. PROVIDE NEW LIGHTING CONTROL AS INDICATED.
- Ⓜ INDICATES SEQUENCE OF OPERATION. REFER TO LIGHTING SEQUENCE OF OPERATION (S00) AND CONTROL DIAGRAMS ON ELECTRICAL DETAIL SHEETS FOR ADDITIONAL INFORMATION.
- PROVIDE SEPARATE HOT, NEUTRAL AND GROUND CONDUCTORS FOR ALL DIMMING CIRCUITS. PROVIDE A MINIMUM #10 AWG CONDUCTOR FOR ALL NEUTRAL CONDUCTORS USED FOR DIMMING CIRCUITS.
- PROVIDE RECESSED BACKBOXES AND CONCEALED CONDUITS THROUGHOUT ALL NEW CONSTRUCTION AND REMODELING AREAS, UNLESS NOTED OTHERWISE.
- PROVIDE EXPOSED CONDUITS IN EXPOSED UNFINISHED AREAS ONLY (MECHANICAL ROOMS, ELECTRICAL ROOMS, ETC.), UNLESS NOTED OTHERWISE. MOUNT EXPOSED CONDUITS TO BOTTOM SIDE OF BEAMS OR CONCRETE PANS AND ROUTE IN A NEAT AND ORDERLY FASHION. COORDINATE EXACT ROUTING OF ALL EXPOSED CONDUITS WITH ENGINEER/OWNER PRIOR TO ROUGH-IN.
- PROVIDE SURFACE METAL RACEWAY AND BACKBOXES IN EXISTING FINISHED AREAS, UNLESS NOTED OTHERWISE.
- COORDINATE ALL LOCATIONS IN WHICH SURFACE METAL RACEWAY IS TO BE USED WITH ENGINEER/OWNER PRIOR TO ROUGH-IN.
- REMOVE AND REINSTALL CEILINGS AS NEEDED FOR NEW ELECTRICAL WORK AND MODIFICATIONS TO EXISTING ELECTRICAL WORK UNLESS NOTED OTHERWISE.
- VERIFY EXACT FIXTURE MOUNTING LOCATIONS AND ELEVATION WITH ARCHITECT.
- WHERE LED LIGHT FIXTURES ARE SHOWN PROVIDE ADDITIONAL BRANCH CIRCUITS, RELAYS, DIMMERS, ETC. AS REQUIRED FOR THE FIXTURE TO BE COMPATIBLE WITH THE CONTROL SEQUENCE SPECIFIED. PROVIDE FULLY OPERATION SYSTEM.
- OCCUPANCY SENSORS SHOWN ON THIS DRAWINGS ARE DIAGRAMMATIC AND INDICATE ZONE CONTROL REQUIREMENTS. PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR COMPLETE MOTION CONTROL COVERAGE OF THE AREA SERVED.
- SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS, FLOORS, OR CEILINGS COMPLETELY WITH U.L. LISTED INTUMESCENT TYPE FIRE BARRIERS.
- PATCH AND PAINT ALL WALL, FLOOR, AND CEILING SURFACES DAMAGED AS A RESULT OF THE ELECTRICAL WORK TO MATCH EXISTING FINISHES, UNLESS NOTED OTHERWISE.
- REPLACE ALL LAY-IN CEILING TILES DAMAGED AS A RESULT OF THE ELECTRICAL WORK, UNLESS NOTED OTHERWISE.
- MOUNT ALL NEW DEVICES SHOWN ON EXISTING WALLS USING SURFACE RACEWAY AND BOXES.
- VERIFY MOUNTING HEIGHTS OF ALL RECEPTACLES PRIOR TO ROUGH-IN. REFER TO THE ARCHITECTURAL ELEVATIONS.
- DEVICES SHOWN HALFTONE ARE EXISTING TO REMAIN AND ARE SHOWN FOR REFERENCE ONLY.
- USE OF MC CABLING IS NOT AN APPROVED RACEWAY METHOD. REFER TO SPECIFICATION SECTION 26 05 33.
- ALL NEW RECEPTACLES SHOWN ON THIS PLAN ARE TO BE TAMPER RESISTANT UNLESS NOTED OTHERWISE.
- ALL NEW POWER OUTLETS TO BE FED FROM REPLACEMENT PANELBOARD E-1-7, UNLESS NOTED OTHERWISE.

KEY NOTES:

- PROVIDE NEW 208/120V 200A PANELBOARD AT EXISTING LOCATION FROM DEMOLITION. INTERCEPT AND EXTEND EXISTING ACTIVE BRANCH CIRCUITS AND FEEDERS TO NEW PANEL. MAKE ALL FINAL CONNECTIONS AS REQUIRED. SEE PANELBOARD SCHEDULE FOR MORE DETAILS. RECESS INTO NEW WALL.
- PROVIDE NEW LIGHTING IN AREA/ROOMS INDICATED. COORDINATE LOCATIONS WITH NEW MECHANICAL DUCTWORK AND PIPING IN THIS AREA. INTERCEPT AND EXTEND EXISTING CIRCUITING FOR AREA/ROOM LIGHTING TO NEW FIXTURES. CONNECT TO NEW AREA/ROOM LIGHT SWITCH(ES), ROOM CONTROLLER(S), AND OCCUPANCY SENSOR(S).
- PROVIDE NEW SWITCH FOR CONTROL OF GENERAL LIGHTING IN THIS ROOM. INTERCEPT AND EXTEND EXISTING CONTROL WIRING FROM DEMOLISHED LOCATION TO NEW LOCATION SHOWN. PROVIDE NEW SURFACE WIREMOLD 500 AS REQUIRED ON EXISTING TO REMAIN WALLS. COORDINATE EXACT LOCATION IN FIELD.
- PROVIDE NEW BATTERY EXIT/ EMERGENCY EGRESS LIGHTING AS INDICATED. CIRCUIT TO NEAREST UNSWITCHED CIRCUIT IN ROOM/AREA NEARBY.
- PROVIDE WIRED NON-NETWORK OCCUPANCY SENSOR - PROVIDE FOR CONTROL OF LIGHTING IN THIS ROOM/SPACE. PROVIDE TYPE AS SPECIFIED IN TABLE 26.09.23-1.3C. MOUNT SENSOR PER MANUFACTURERS RECOMMENDATIONS (SENSORS ARE SHOWN IN SCHEMATIC FORMAT.) REFER TO SPECIFICATION SECTION 26.09.23 FOR ADDITIONAL INFORMATION.
- PROVIDE SWITCHES WITH PILOT LIGHT WITH STAINLESS STEEL. ENGRAVE COVER PLATE FOR FREEZER COOLER LIGHTING. VERIFY EXACT LOCATION WITH FSEC.
- LIGHTING FOR FREEZER AND COOLER PROVIDED WITH EQUIPMENT. REFER TO FOOD SERVICE DRAWINGS FOR ADDITIONAL INFORMATION.
- EXISTING ELECTRICAL LIGHTING FIXTURES AND LIGHTING CONTROLS IN THIS AREA/ROOM ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
- PROVIDE NEW DATA OUTLET AS SHOWN. PROVIDE NEW SURFACE WIREMOLD 500 AS REQUIRED FOR MOUNTING ON EXISTING WALL. PROVIDE NEW DATA CABLING AND CONDUIT AS REQUIRED FROM NEAREST DATA RACK.
- PROVIDE NEW RECEPTACLE AND DATA OUTLET AS SHOWN. PROVIDE NEW DUAL CHANNEL SURFACE WIREMOLD 4000 AS REQUIRED FOR MOUNTING ON EXISTING WALL. PROVIDE NEW CIRCUITING, CONDUIT, WIRING, ETC. AS INDICATED. PROVIDE NEW DATA CABLING AND CONDUIT AS REQUIRED FROM NEAREST DATA RACK.
- PROVIDE NEW 6-15R RECEPTACLE AT APPROXIMATE LOCATION SHOWN. VERIFY EXACT MOUNTING LOCATION AND HEIGHT WITH FOOD SERVICE VENDOR PRIOR TO INSTALL. PROVIDE NEW CIRCUITING AS INDICATED.
- PROVIDE CONNECTION TO COOLER AND FREEZER REMOTE CONDENSING UNITS. VERIFY EXACT MOUNTING LOCATION IN BOILER ROOM WITH FSEC AND ARCHITECT PRIOR TO ROUGH-IN.
- PROVIDE NEW GF1 DUPLEX RECEPTACLE AND CIRCUIT TO NEAREST AVAILABLE RECEPTACLE CIRCUIT.



MECHANICAL EQUIPMENT SCHEDULE

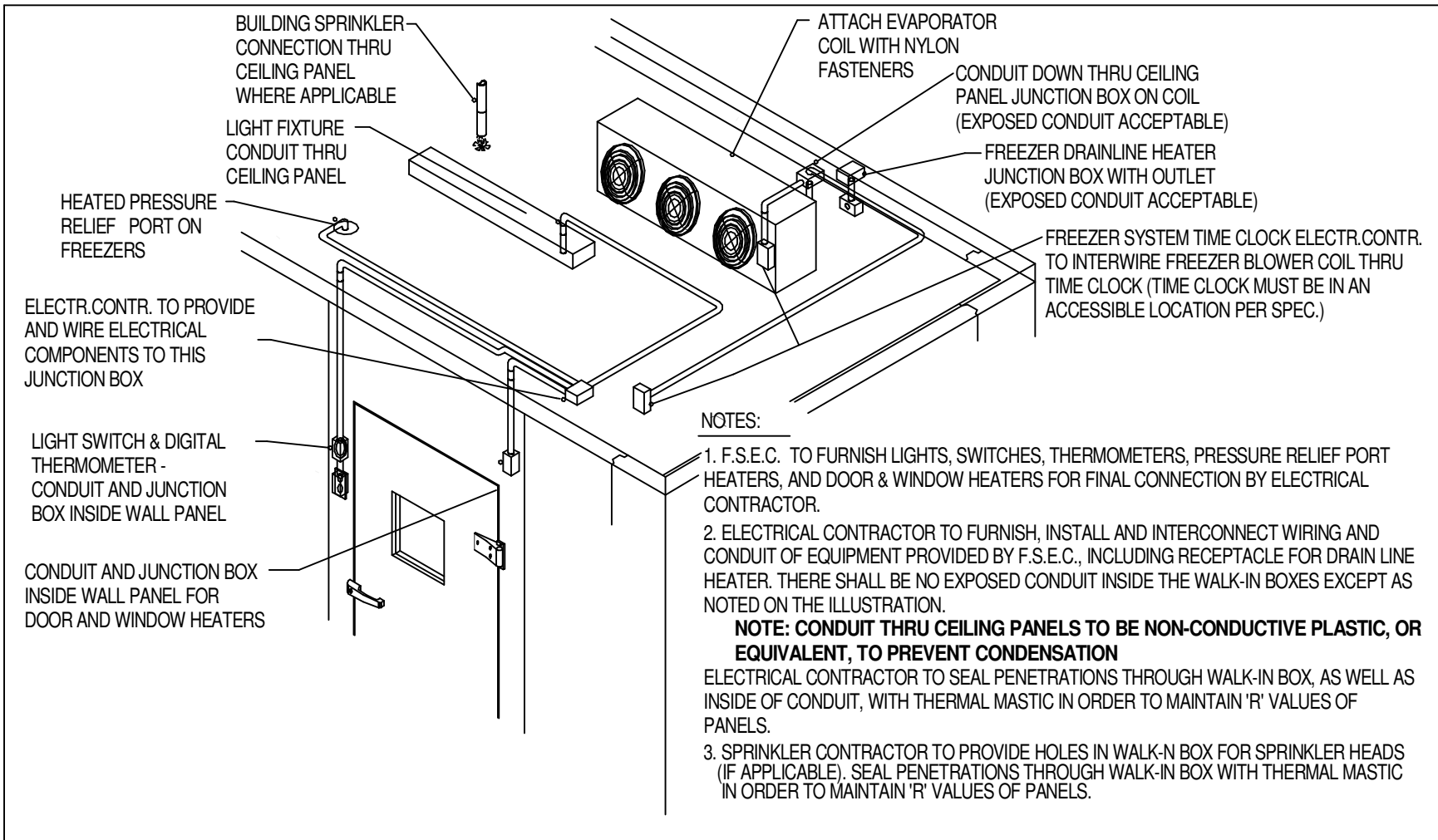
XXX XXX	DESCRIPTION LOCATION	V/O	HP	MCA FLA	DISC. BY DISC. SIZE	DISC. TYPE DISC. LOC.	STARTER BY STARTER SIZE	STARTER TYPE STARTER LOC.	CONTROL BY CONTROL TYPE	CONTROL LOC.	CONDUIT SIZE CONDUCTORS	PANEL NAME CIRCUIT #	OCD SIZE OCD TYPE	NOTES
PRV 1	POWER ROOF VENTILATOR ROOF	208/3	3		DIV 23 NA	NA NA	DIV 25 NA	NA NA	DIV 25 NA	NA	3/4" 2#12 + GND	PANEL A 2,4,6	20A/3P BREAKER	1
VUH 1	VERTICAL UNIT HEATER BOILER ROOM	120/1	FRAC		DIV 23 NA	NA NA	DIV 23 NA	NA NA	DIV 23 NA	NA	3/4" 2#12 + GND	PANEL A 8	20A/1P BREAKER	1

MECHANICAL EQUIPMENT SCHEDULE GENERAL NOTES:

- A. ROUTE ALL ROOF CONDUIT PENETRATIONS THROUGH ROOF CURB.
- B. ALL RELAYS REQUIRED FOR INTERFACE WITH FACILITY MANAGEMENT SYSTEM (BEMS) WILL BE FURNISHED AND INSTALLED BY MECH CONTRACTOR UNLESS NOTED OTHERWISE.
- C. ALL CONTROL WIRING FOR FMS RELAYS WILL BE BY MECHANICAL CONTRACTOR.
- D. PROVIDE ALL MAGNETIC STARTERS WITH HO/A SELECTOR SWITCHES.
- E. ALL POWER FACTOR CORRECTION CAPACITORS FOR MOTORS 3HP AND LARGER WILL BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
- F. VARIABLE FREQUENCY DRIVES WILL BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. REFER TO THE POWER PLANS FOR THE VFD LOCATIONS.
- G. PROVIDE VFD LINE AND LOAD CONDUCTORS IN SEPARATE CONDUITS. DO NOT COMBINE OTHER MOTOR CONDUCTORS IN SAME CONDUITS.
- H. COORDINATE FINAL CONDUCTOR SIZES AND OVERCURRENT PROTECTIVE DEVICES WITH APPROVED MECHANICAL SHOP DRAWINGS PRIOR TO FURNISHING AND INSTALLING.

MECHANICAL EQUIPMENT SCHEDULE KEY NOTES:

1. PANEL A IS AN EXISTING 208/120V, 100A, AMERICAN MIDWEST POWER, TYPE P1A, 10,000 AIC RATING, BREAKER PANELBOARD. MATCH EXISTING MANUFACTURER, BREAKER TYPE, AIC RATING, ETC.



2 WALK IN COOLER/FREEZER WIRING DIAGRAM NTS

PANELBOARD: E-1-7

LOCATION: KITCHEN A122  
MOUNTING: RECESSED NEMA1  
MAIN DEVICE: 200 A MAIN CB  
BUS AMPS: 200 AMPS

VOLTAGE: 208Y/120 V, 3 ø 4 W.  
A.I.C. RATING: 42,000 AMPS SYMMETRICAL  
SPECIAL:

LOAD DESCRIPTION	BKR	P	CKT	A		B		C		CKT	P	BKR	LOAD DESCRIPTION
EXISTING EXHAUST FAN (NOTE 1)	20 A	1	1	1.0	1.2					2	1	20 A	EXISTING COUNTER RCPT (NOTE 1)
EXISTING COUNTER RCPT (NOTE 1)	20 A	1	3			1.2	1.2			4	1	20 A	EXISTING COUNTER RCPT (NOTE 1)
EXISTING COUNTER RCPT (NOTE 1)	20 A	1	5					1.2	1.2	6	1	20 A	EXISTING COUNTER RCPT (NOTE 1)
RECEPTACLE (NOTE 1)	20 A	1	7	0.2	1.2					8	1	20 A	EXISTING COUNTER RCPT (NOTE 1)
EXIST. BAKER TABLE RCPT (NOTE 1)	20 A	1	9			1.2	1.2			10	1	20 A	EXISTING STEAM KETTLE (NOTE 1)
EXISTING COUNTER RCPT (NOTE 1)	20 A	1	11					1.2	1.2	12	1	20 A	CONDENSATE PUMPS
EXISTING COUNTER RCPT (NOTE 1)	20 A	1	13	1.2	0.6					14			
DISH EXHAUST FAN (NOTE 2)	20 A	1	15			1.2	0.6			16	3	20 A	EXISTING EXHAUST FAN
WALK IN COOLER COIL (NOTE 1)	20 A	1	17					1.2	0.6	18			
SPARE	20 A	1	19	0.0	0.0					20	1	20 A	SPARE
SPARE	20 A	1	21			0.0	0.0			22	1	20 A	SPARE
SPARE	20 A	1	23					0.0	0.0	24	1	20 A	SPARE
COOLER LIGHTS/HEATER (NOTE 1)	20 A	1	25	0.0	0.6					26			
FREEZER LIGHTS/HEATER (NOTE 1)	20 A	1	27			0.0	0.6			28	3	20 A	EXISTING GARBAGE DISPOSAL (NOTE 1)
SPARE	20 A	1	29					0.0	0.6	30			
EXISTING MILK COOLERS (NOTE 1)	20 A	1	31	0.0	1.2					32	1	20 A	COLD FOOD TABLE (NOTE 1)
EXISTING OVEN (NOTE 1)	20 A	1	33			1.2	1.2			34	1	20 A	COLD FOOD TABLE (NOTE 1)
EXISTING OVEN (NOTE 1)	20 A	1	35					1.2	0.5	36	1	20 A	DRY STORAGE RCPT (NOTE 1)
			37	0.9	2.8					38			
EXISTING DISHWASHER (NOTE 1)	30 A	3	39			0.9	2.8			40	3	60 A	BOOSTER HEATER
			41					0.9	2.8	42			
WALK IN FREEZER COIL (NOTE 1)	20 A	2	43	1.4	0.0					44	1	20 A	SPARE
			45			1.4	0.0			46	--	--	SPACE
HOT FOOD TABLE (NOTE 1)	20 A	2	47					0.9	0.0	48	--	--	SPACE
			49	0.9	0.0					50	--	--	SPACE
HOT FOOD TABLE (NOTE 1)	20 A	2	51			0.9	0.0			52	--	--	SPACE
			53					0.9	0.0	54	--	--	SPACE
TOTAL LOAD:				13 kVA		16 kVA		14 kVA					
TOTAL AMPS:				109 A		131 A		121 A					
PANEL TOTALS													
CONNECTED LOAD:							42978 VA						
ESTIMATED DEMAND:							42978 VA						
CONNECTED CURRENT:							119 A						
EST. DEMAND CURRENT:							119 A						

- NOTES:
1. PROVIDE GFI CIRCUIT BREAKER FOR THIS CIRCUIT.
2. PROVIDE LOCK ON CIRCUIT BREAKER FOR THIS CIRCUIT.

KITCHEN EQUIPMENT SCHEDULE

KE -	DESCRIPTION	V/O	KW	AMP	CONN. TYPE MTG. HT.	RECEPT. TYPE	CONDUIT SIZE CONDUCTORS	PANEL NAME CIRCUIT NUMBER	OCD SIZE OCD TYPE	NOTES
KE 1A	WALK IN COOLER LIGHTS, HEATER	120/1		20A	JUNCTION BOX 94"	DIRECT	3/4"C 2#12 & #12G	E-1-7 25	20A/1P BREAKER	1,2
KE 1B	WALK IN FREEZER LIGHTS, HEATER	120/1		20A	JUNCTION BOX 94"	DIRECT	3/4"C 2#12 & #12G	E-1-7 27	20A/1P BREAKER	1,2
KE 2A	WALK IN COOLER CONDENSOR	208/3		15A	JUNCTION BOX BOILER ROOM	DIRECT	3/4"C 3#12 & #12G	MSB-1 VERIFY	30A SW 15A FU	1,3
KE 2B	WALK IN COOLER COIL	120/1		1.8A	JUNCTION BOX 94"	DIRECT	3/4"C 2#12 & #12G	E-1-7 17	20A/1P BREAKER	1,3
KE 2C	WALK IN COOLER CONDENSATE PUMP	120/1		1A	JUNCTION BOX 94"	DIRECT	3/4"C 2#12 & #12G	E-1-7 12	20A/1P BREAKER	1,3
KE 3A	WALK IN FREEZER CONDENSOR	208/3		37.5A	JUNCTION BOX BOILER ROOM	DIRECT	3/4"C 3#8 & #10G	MSB-1 VERIFY	60A SW 40A FU	1,3
KE 3B	WALK IN FREEZER COIL	208/1		15.2A	JUNCTION BOX 94"	DIRECT	3/4"C 2#12 & #12G	E-1-7 43,45	20A/2P BREAKER	1,3
KE 3C	WALK IN FREEZER CONDENSATE PUMP	120/1		1A	JUNCTION BOX 94"	DIRECT	3/4"C 2#12 & #12G	E-1-7 12	20A/1P BREAKER	1,3

KITCHEN EQUIPMENT SCHEDULE

KITCHEN EQUIPMENT SCHEDULE GENERAL NOTES:

- A. COORDINATE WITH FSEC FOR FINAL CONNECTIONS, MOUNTING HEIGHTS, LOCATIONS AND ADDITIONAL INFORMATION.
- B. PROVIDE GFI BREAKER TO SERVE ALL 120 VOLT, 20 AMP RECEPTACLE CIRCUITS SERVING KITCHEN EQUIPMENT AND CONVENIENCE OUTLETS.
- C. PROVIDE ALL NECESSARY ELECTRICAL DISCONNECT SWITCHES FOR EQUIPMENT. INSTALL AHEAD OF EQUIPMENT CONTROL OR SWITCH.
- D. FSEC IS RESPONSIBLE FOR SETTING EQUIPMENT IN PLACE AND READY FOR FINAL CONNECTIONS AND INTERCONNECTIONS. FINAL CONNECTIONS FOR THIS EQUIPMENT PROVIDED BY THE DIVISION 26 CONTRACTOR.
- E. MOUNT ALL DUPLEX RECEPTACLES HORIZONTALLY IN WALL (WITH NEUTRAL UP), UNLESS OTHERWISE NOTED.
- F. ROUGH-INS ARE PROVIDED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE ROUGH-INS IN SIZES AS REQUIRED FOR EACH PIECE OF EQUIPMENT.
- G. PROVIDE LABOR AND MATERIALS REQUIRED TO MAKE FINAL CONNECTIONS FROM SERVICE ROUGH-INS TO CONNECTIONS AND INTERCONNECTIONS.
- H. HOLES IN FOOD SERVICE EQUIPMENT FOR THE ELECTRICAL SERVICES ARE PROVIDED BY FSEC.
- EXPOSED CONDUIT SHALL BE SEALTIGHT OR EPOXY COATED FOR CLEANING TO COMPLY WITH LOCAL HEALTH CODES.
- J. ELECTRICAL CONTRACTOR TO INTERWIRE FIRE PROTECTION SYSTEM WITH HVAC SYSTEMS FOR PROPER SHUTDOWNS. FIRE PROTECTION BY MECHANICAL CONTRACTOR.
- K. ELECTRICAL CONTRACTOR TO INTERWIRE FIRE PROTECTION SYSTEM TO POWER SHUT OFF DEVICE, SUPPLIED BY ELECTRICAL CONTRACTOR, SO AS POWER TO ALL ELECTRICAL COOKING EQUIPMENT BELOW HOODS ARE SHUT OFF UPON ACTIVATION OF TEH FIRE PROTECTION SYSTEM.
- L. DISPOSERS, WIRE THRU SOLENOID VALVE AND CONTROL PANEL TO DISPENSOR.
- M. WALK IN COOLER FREEZERS, ELECTRICAL CONTRACTOR TO INTERCONNECT WALK IN FREEZER BLOWER COIL TO TIME CLOCK LOCATED AT THE WALK IN BOX ABOVE CEILING FOR TIMED DEFROST (POWER AND CONTROL WIRING IN CONDUIT). LIGHTS, ALARM, DOOR, WINDOW, PORT, SILL AND DRAIN LINE HEATER TO JUNCTION BOX ON TOP OF WALK IN FOR FINAL CONNECTION TO JUNCTION BOXES BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO INSTALL ALL LIGHT FIXTURES IN WALK IN COOLER / FREEZER.
- N. USE OF MC CABLING IS NOT AN APPROVED RACEWAY METHOD. REFER TO SPECIFICATION SECTION 26.05.33.

KITCHEN EQUIPMENT SCHEDULE KEY NOTES:

1. PROVIDE DIRECT CONNECTION TO EQUIPMENT
2. FOR LIGHTING, ALARM CLOCKS, DOOR FRAME HEATERS, PORTS AND SILLS, FREEZER DRAIN LINE HEATERS. INSTALL AND WIRE ALL LIGHTING FIXTURES IN WALK-IN COOLDER FREEZERS. SEE DETAIL 1 ON THIS SHEET.
3. PROVIDE NEMA 3R DISCONNECT AT UNIT.

LIGHT FIXTURE SCHEDULE

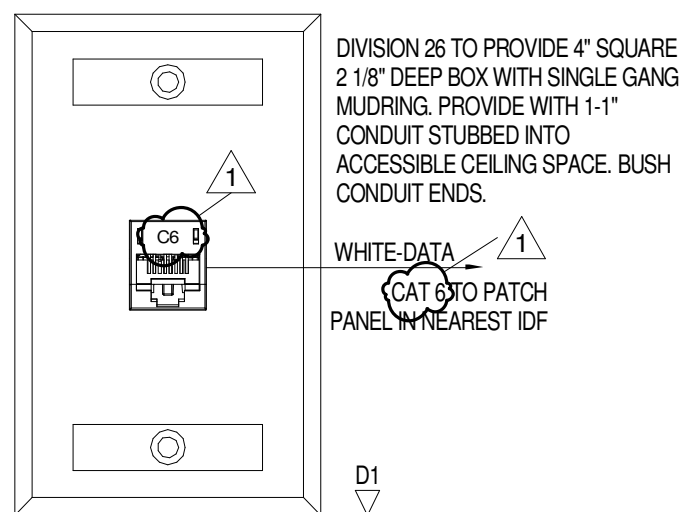
LTR TYPE	FIXTURE TYPE	MOUNTING	LAMP TYPE	VOLTAGE/ BALLAST	FIXTURE DESCRIPTION	MANUFACTURER/ CATALOG SERIES	NOTES
A	2 X 4 LED PANEL	RECESSED IN GRID CEILING	LED 4800 LUMENS 4000K	120-277 VOLT 0-10V DIMMING DRIVER	FULLY LUMINOUS DIFFUSE ACRYLIC PANEL, PAINTED AFTER FABRICATION	LITHONIA OPX SERIES METALUX CGTX SERIES ORACLE FPL-BL SERIES	
B	4' STRIP LIGHT	CHAIN HUNG	LED 4000 LUMENS 4000K	120-277 VOLT 0-10V DIMMING DRIVER	STEEL HOUSING, CURVED WHITE ACRYLIC LENS, CHAIN HANGER KIT, WHITE FINISH	LITHONIA CLX SERIES COLUMBIA CSL SERIES METALUX SNLED SERIES DAY-BRITE SDS SERIES	
E	EXIT LIGHT W/BATTERY	UNIVERSAL	LED - INCLUDED	120-277 VOLT NA	HIGH IMPACT POLYCARBONATE HOUSING, HOUSING, NI-CAD BATTERY, SELF DIAGNOSTICS, GREEN LETTERS, WHITE FINISH	DUAL LITE EVE SERIES NO EXCEPTION	1,3
EM	EGRESS LIGHT	UNIVERSAL	LED - INCLUDED	120-277 VOLT NA	WHITE THERMAL PLASTIC HOUSING, NI-CAD BATTERY, SELF DIAGNOSTICS	DUAL LITE EZ-2L1 SERIES NO EXCEPTION	1,2

LIGHT FIXTURE SCHEDULE GENERAL NOTES:

- A. EQUAL LUMINAIRES SHALL BE PRE-APPROVED.
- B. PROVIDE NECESSARY MOUNTING HARDWARE AND ACCESSORIES FOR ALL LUMINAIRES.
- C. ALL CIRCUITS SHALL BE CONCEALED IN ALL AREAS WITH FINISHED WALLS. WHERE CIRCUITS EXIT FINISHED WALLS, CONDUIT SHALL CONTINUE VERTICALLY TO STRUCTURE. ALL EXPOSED CONDUIT SHALL BE SUPPORTED BY UNISTRUT FROM STRUCTURE AND RUN IN NEAT, PARALLEL RUNS.

LIGHT FIXTURE SCHEDULE NOTES:

1. PROVIDE ALL EGRESS/EXIT LIGHT WITH BATTERY AS INDICATED. PROVIDE MINIMUM OF 90 MINUTES OF ILLUMINATION FOR LIGHTS/LOAD CONNECTED TO UNIT.
2. PROVIDE CONTRACTOR ALLOWANCE FOR THIS FIXTURE OF \$95.00. THIS ALLOWANCE INCLUDES PURCHASES OF FIXTURE ONLY. INTALLATION, HANDLING, AND FREIGHT IS NOT INCLUDED.
3. PROVIDE CONTRACTOR ALLOWANCE FOR THIS FIXTURE OF \$127.00. THIS ALLOWANCE INCLUDES PURCHASES OF FIXTURE ONLY. INTALLATION, HANDLING, AND FREIGHT IS NOT INCLUDED.



1 DATA OUTLET NOT TO SCALE (TYPICAL)

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Paul J. Fettingner  
PAUL J. FETTINGNER  
43079 12/01/2023  
REG. NO. DATE

CHECKED BY JWV

DRAWN BY DJK

DATE 12/01/2023

PROJECT NO. R23-4767.000

SHEET NO.

E2.3