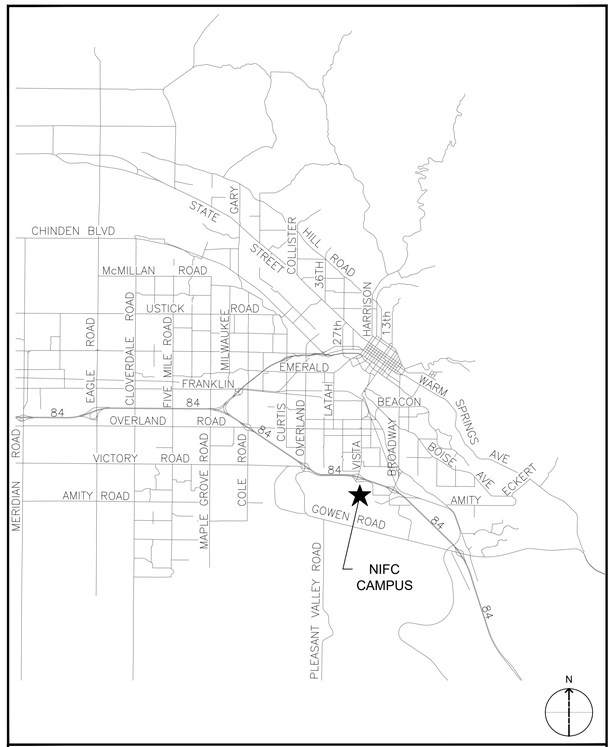
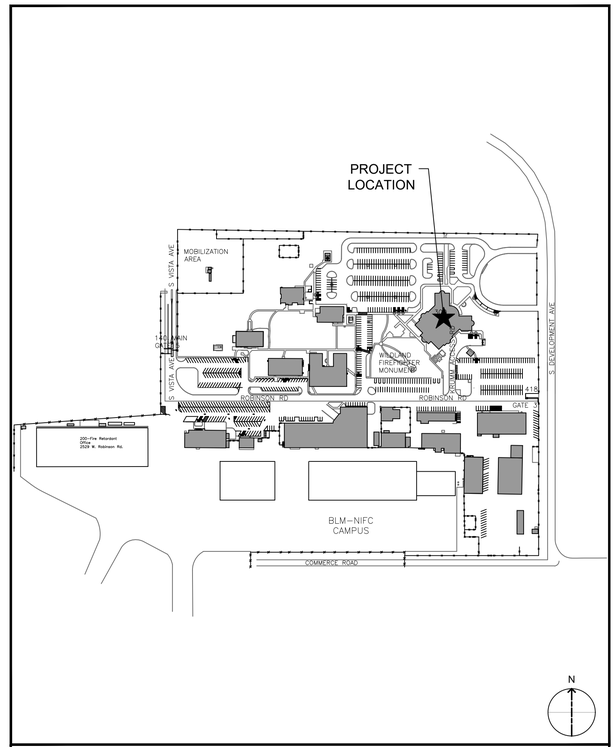
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
NATIONAL INTERAGENCY FIRE CENTER

NIFC 300-JWH SUITE 222/227 RENOVATION

BOISE, IDAHO



REFERENCE MAP



VICINITY MAP

NATIONAL INTERAGENCY FIRE CENTER
3833 DEVELOPMENT AVE, BOISE, ID 83705

PROJECT LOCATION
LATITUDE: 43.567070°
LONGITUDE: -116.209100°

DESIGNERS

LBYD FEDERAL
Cushing Terrell.

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NIFC 300-JWH SUITE 222/227 RENOVATIONS
NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: COVER SHEET
Designed by: SJBD
Drawn by: N. FRONGNER
Checked by: SJBD
Approved by: SJBD

Revisions:

#	Description	Date
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Seal: PROFESSIONAL ENGINEER LICENSED 18674 STATE OF IDAHO NATHAN J. FRONGNER
Digitally signed by Nathan J. Frongner
2026.05.08 07:26:59-06'00'
nfrongner@rodfriesendgrp.com

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026
G-001

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Sheet Title: SHEET INDEX

Designed by: SJBD
Drawn by: N. FRONGNER
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Seal:

PROFESSIONAL ENGINEER LICENSED 18674 STATE OF IDAHO NATHAN J. FRONGNER

2026.05.08 07:44:46-06'00'
nfrongner@rockfivedrgrp.com

BLM Project # 140L062F0116

Project # 070117.029

Date: 05/08/2026

G-002

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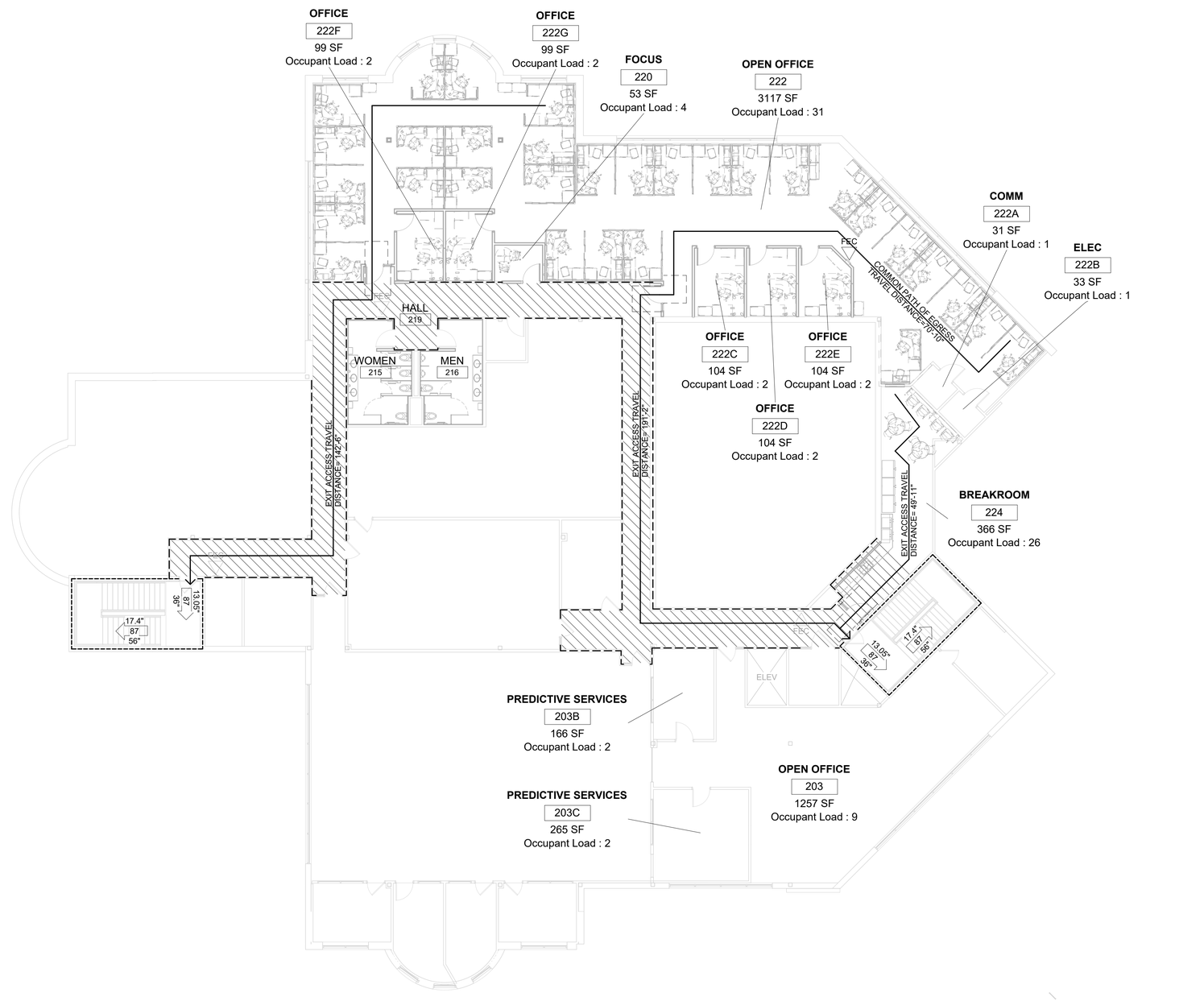


A1 SECOND FLOOR CODE PLAN

CODE PLAN LEGEND

OCCUPANCY TAG:
- ROOM / AREA NAME
- ROOM / AREA NUMBER
- SPACE AREA
- NUMBER OF OCCUPANTS
- OCCUPANT LOAD FACTOR

ROOM NAME 101 88888 SF ### = ###

EXIT PATH

EXISTING 1 HOUR FIRE BARRIER - PER CODE REVIEW, FIRE RATING IS NO LONGER NEEDED AND WILL NOT BE MAINTAINED

EXISTING 1 HOUR FIRE BARRIER TO REMAIN AT STAIR ENCLOSURE, DO NOT PENETRATE

EXISTING 1 HOUR RATED CEILING - PER CODE REVIEW, FIRE RATING IS NO LONGER NEEDED AND WILL NOT BE MAINTAINED

FEC — FIRE EXTINGUISHER CABINET AND EXTINGUISHER - SEE SPECIFICATIONS

FEC — EXISTING FIRE EXTINGUISHER CABINET AND EXTINGUISHER TO REMAIN

FE — SURFACE MOUNTED FIRE EXTINGUISHER - SEE SPECIFICATIONS

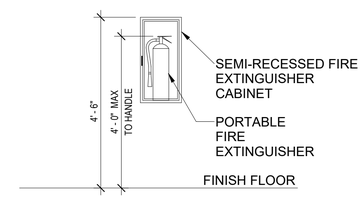
EXIT TAG:
- REQUIRED WIDTH
- OCCUPANT LOAD
- PROVIDED WIDTH

# # #

NOTE: SEE ELECTRICAL FOR ILLUMINATED EXIT SIGNS.

GENERAL SHEET NOTES

A. SEE SHEET GI102 FOR CODE ANALYSIS.



B4 EXTINGUISHER MOUNTING HEIGHTS

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United States Department of the Interior Bureau of Land Management
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Sheet Title: SECOND FLOOR LIFE SAFETY PLAN

Designed by: MORTENSON
Drawn by: MACKENZIE
Checked by: MORTENSON
Approved by: SJBD

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LICENSED ARCHITECT AR 984755
5/8/26
Scott D. Roberts
STATE OF IDAHO

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

GI101

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CODE REVIEW INFORMATION

GOVERNING CODES:
2024 INTERNATIONAL BUILDING CODE
2024 INTERNATIONAL EXISTING BUILDING CODE
2024 INTERNATIONAL FIRE CODE
2024 INTERNATIONAL FUEL GAS CODE
2024 INTERNATIONAL MECHANICAL CODE
2024 INTERNATIONAL PLUMBING CODE
2024 INTERNATIONAL WILDLAND-URBAN INTERFACE CODE
2024 INTERNATIONAL ENERGY CONSERVATION CODE
2024 NFPA 101 LIFE SAFETY CODE
ARCHITECTURAL BARRIERS ACT (ABA) ACCESSIBILITY STANDARDS

*SHOULD A CONFLICT EXIST BETWEEN BLM ADOPTED CODES AND STATE OR LOCAL CODES, BLM ADOPTED CODES SHALL PREVAIL

PROJECT SUMMARY:
THE PROJECT SCOPE CONSISTS OF A TENANT IMPROVEMENT TO SUITE 222 AND 227 ON THE SECOND FLOOR OF NIFC BUILDING 300, RENOVATION OF THE RESTROOMS ON THAT FLOOR, AND CONVERSION OF AN EXISTING BREAK ROOM IN SUITE 203 INTO ADDITIONAL OPEN OFFICE SPACE. THE PROJECT WILL NOT CHANGE OCCUPANCY OR MEANS OF EGRESS, EXCEPT FOR THE EXIT PATH WITHIN THE AFFECTED SUITES. THE PROJECT AREA WILL BE LESS THAN 50% OF THE BUILDING AREA. ALL WORK IN SUITE 203 WILL BE DONE AS AN ADDITIVE ALTERNATE.

IEBC 2024 ANALYSIS:
CLASSIFICATION OF WORK: LEVEL 2 ALTERATION

603.1 LEVEL 2 ALTERATIONS INCLUDE THE ADDITION OR ELIMINATION OF ANY DOOR OR WINDOW, THE RECONFIGURATION OR EXTENSION OF ANY SYSTEM, OR THE INSTALLATION OF ANY ADDITIONAL EQUIPMENT, AND SHALL APPLY WHERE THE WORK AREA IS EQUAL TO OR LESS THAN 50 PERCENT OF THE BUILDING AREA.

603.2 LEVEL 2 ALTERATIONS SHALL COMPLY WITH PROVISIONS OF CHAPTER 7 AND 8

701.2 AN EXISTING BUILDING OR PORTION THEREOF SHALL NOT BE ALTERED SUCH THAT THE BUILDING BECOMES LESS SAFE THAN ITS EXISTING CONDITION.
EXCEPTION: WHERE THE CURRENT LEVEL OF SAFETY IS PROPOSED TO BE REDUCED, THE PORTION ALTERED SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.

703.1 ALTERATIONS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF FIRE PROTECTION PROVIDED.

801.4 NEW CONSTRUCTION ELEMENTS, COMPONENTS, SYSTEMS AND SPACES SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.

802.4 THE INTERIOR FINISH AND TRIM OF WALLS AND CEILINGS IN EXITS AND CORRIDORS IN ANY WORK AREA SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.

803.1.1 WHERE AN APPROVED AUTOMATIC SPRINKLER SYSTEM IS INSTALLED THROUGHOUT THE STORY, THE REQUIRED FIRE-RESISTANCE RATING FOR ANY CORRIDOR LOCATED ON THE STORY SHALL BE PERMITTED TO BE REDUCED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.

809.1 LEVEL 2 ALTERATIONS TO EXISTING BUILDINGS ARE PERMITTED WITHOUT REQUIRING THE ENTIRE BUILDING TO COMPLY WITH THE ENERGY REQUIREMENTS OF THE INTERNATIONAL ENERGY CONSERVATION CODE. ALTERATIONS SHALL CONFORM TO THE ENERGY REQUIREMENTS OF THE INTERNATIONAL ENERGY CONSERVATION CODE AS THEY RELATE TO NEW CONSTRUCTION ONLY.

IBC 2024 ANALYSIS

OCCUPANCY CLASSIFICATION: B (BUSINESS) PER SECTION 304.1
BUILDING OCCUPANCY HAS NOT BEEN ALTERED FROM EXISTING

FIRE SPRINKLER SYSTEM: PROVIDED

CONSTRUCTION TYPE: IIB PER SECTION 602.2

BUILDING HEIGHT, AREA, AND NUMBER OF STORIES: NOT ALTERED FROM EXISTING

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS FROM TABLE 601
FOR TYPE IIB, ALL ELEMENTS EXCEPT EXTERIOR WALLS = 0 HOURS

SECTION 602.2 TYPES I AND II
TYPES I AND II CONSTRUCTION ARE THOSES TYPES OF CONSTRUCTION IN WHICH THE BUILDING ELEMENTS SPECIFIED IN TBALE 601 ARE OF NONCOMBUSTIBLE MATERIALS, EXCEPT AS PERMITTED IN SECTION 603 AND ELSEWHERE IN THIS CODE.

CHAPTER 7 RATED / PROTECTED ASSEMBLIES NOT ALTERED FROM EXISTING

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY FROM TABLE 803.13
FOR GROUP B, SPRINKLERED (MOST STRINGENT):
EXIT ENCLOSURES AND EXIT PASSAGEWAYS = B
CORRIDORS & STIARWAYS = C
ROOMS AND ENCLOSED SPACES = C

OCCUPANT LOAD FACTOR FROM TABLE 1004.5:

BUSINESS AREAS	= 150 GROSS
EXISTING SECOND FLOOR	= 16,785 / 150 = 112 OCCUPANTS
EXISTING SUITE 222/227	= 4,245 SF / 150 = 29 OCCUPANTS
NEW SUITE 222/227	= 91 OCCUPANTS (SEE CODE PLAN)
ADDITIONAL (NEW - EXISTING)	= 62
TOTAL (EXISTING + ADDITIONAL)	= 174 OCCUPANTS

MINIMUM REQUIRED EGRESS WIDTH FROM SECTION 1005.3
STAIRWAYS, SPRINKLERED, GROUP B = 0.2 INCHES PER OCCUPANT
OTHER EGRESS COMPONENTS, SPRINKLERED, GROUP B = 0.15 INCHES PER OCCUPANT
SEE CODE PLANS FOR REQUIRED AND PROVIDED EXIT WIDTHS

COMMON PATH OF EGRESS TRAVEL PER TABLE 1006.2.1 =
FOR B OCCUPANCY ROOMS = SHALL NOT EXCEED 100 FEET

SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY FROM TABLE 1006.2.1
FOR B OCCUPANCY ROOM, MAXIMUM OCCUPANT LOAD = 49

EXIT ACCESS TRAVEL DISTANCE FROM TABLE 1017.2
FOR B OCCUPANCY, WITH SPRINKLER SYSTEM = 300 FEET

CORRIDOR FIRE-RESISTANCE RATING FROM TABLE 1020.2
FOR B OCCUPANCY, WITH SPRINKLER SYSTEM = NO RATING IS REQUIRED

MINIMUM CORRIDOR WIDTH PER TABLE 1020.3 = 44 INCHES.

DEAD END CORRIDORS FROM SECTION 1020.5 EXCEPTION 2
FOR B OCCUPANCY, SPRINKLERRED = NO MORE THAN 50 FEET

MINIMUM NUMBER OF PLUMBING FIXTURES PER IBC TABLE 2902.1
BASED ON BUSINESS OCCUPANCY
174 OCCUPANTS = 87 MALE, 87 FEMALE

WATER CLOSETS:
1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50
PER IPC 424.2, URINAL SHALL NOT BE SUBSTITUTED FOR MORE THAN 50 PERCENT OF REQUIRED WATER CLOSETS
REQUIRED: 3 MALE, 3 FEMALE
PROVIDED: 4 MALE, 4 FEMALE

LAVATORIES:
1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80 FOR BOTH MALE AND FEMALES
REQUIRED: 3 MALE, 3 FEMALE
PROVIDED: 3 MALE, 3 FEMALE

DRINKING FOUNTAINS:
1 PER 100
REQUIRED: 2 TOTAL
PROVIDED: 2 TOTAL

SERVICE SINK:
REQUIRED: 1 TOTAL
PROVIDED: 1 TOTAL

NFPA 101 2024 CODE ANALYSIS
OCCUPANCY: EXISTING BUSINESS
STORIES: 3
CONSTRUCTION TYPE: II-000 SPRINKLERED

PER NFPA 220 TABLE 4.1.1 -
TYPE II-000 - BUILDING ELEMENTS REQUIRE NO RATING.

7.1.3.1.2 EXIT ACCESS CORRIDORS TO BE RATED PER CHAPTER 39 (SEE 39.3.6)

39.1.1.1 - CLASSIFICATION OF HAZARD CONTENTS - ORDINARY
39.2.2 ARRANGEMENTS OF MEANS OF EGRESS IS AS FOLLOWS:
39.2.4.2 - SINGLE EXIT ACCESS PATHS PERMITTED FOR COMMON PATHS OF TRAVEL DISTANCE PER 39.2.5.2
39.2.5.2.1 - COMMON PATH OF TRAVEL = 100' MAXIMUM
39.2.5.3 - DEAD END CORRIDORS = 50' MAXIMUM
39.2.6.3 - MAXIMUM TRAVEL DISTANCE = 300'
39.3.6 CORRIDORS - NO REQUIREMENTS

ABA CODE ANALYSIS
F202.3 ALTERATIONS
WHERE EXISTING ELEMENTS OR SPACES ARE ALTERED, EACH ALTERED ELEMENT OR SPACE SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF CHAPTER 2.

F202.4 ALTERATIONS AFFECTING PRIMARY FUNCTION AREAS
PRIMARY FUNCTION AREAS ARE ALL LOCATED ON ACCESSIBLE ROUTES. RESTROOMS ON SECOND FLOOR ARE CURRENTLY ACCESSIBLE TO OCCUPANTS AND ON ACCESSIBLE ROUTES TO ALL PROJECT AREAS.

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U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NIFC 300-JWH SUITE 222/227 RENOVATIONS

NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: CODE REVIEW

Designed by: MORTENSON
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Approved by: SJBD

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LICENSED ARCHITECT AR 984755
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Scott D. Roberts
STATE OF IDAHO

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GI102

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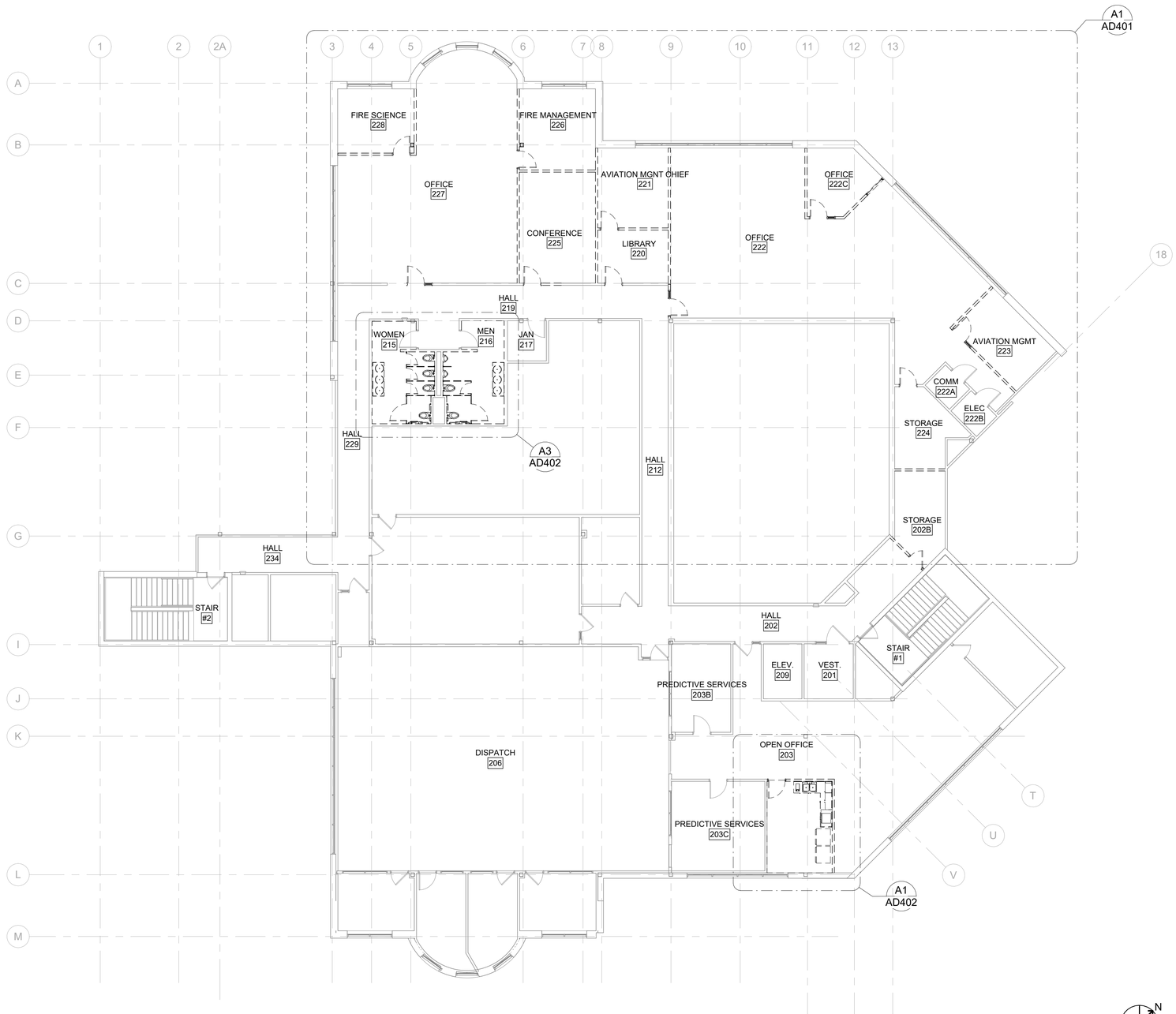

A1 SECOND FLOOR OVERALL DEMOLITION PLAN

0 4' 8' 16' 24'

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GENERAL SHEET NOTES

A. THESE DRAWINGS ARE BASED UPON EXISTING DRAWINGS AND SITE OBSERVATIONS. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING WORK.
B. PROTECT ALL EXISTING ITEMS TO REMAIN FROM DAMAGE. PATCH AND REPAIR ALL ITEMS DAMAGED DURING CONSTRUCTION, INCLUDING VOIDS AND FINISHES RESULTING FROM DEMOLITION REMOVALS.
C. MATCH ADJACENT EXISTING CONSTRUCTION FOR ALL NEW CONSTRUCTION.
D. SEE FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
E. WHERE EXISTING FLOOR FINISHES ARE REMOVED, PREP SLAB AND/OR UNDERLAYMENT AS REQUIRED TO RECEIVE NEW FLOOR FINISHES NOTED.

DEMO PLAN LEGEND

- ITEMS TO BE DEMOLISHED
- ITEMS TO REMAIN
- NAME 101 — EXISTING ROOM NAME AND NUMBER
- X — KEYNOTE
- SIM — DIRECTION OF VIEW, IF APPLICABLE
- 1 XXX000 — DRAWING NUMBER / SHEET WHERE DRAWN
- DIMENSION TO FACE OF FRAMING
- DIMENSION TO GRID LINE
- DIMENSION TO CENTER LINE

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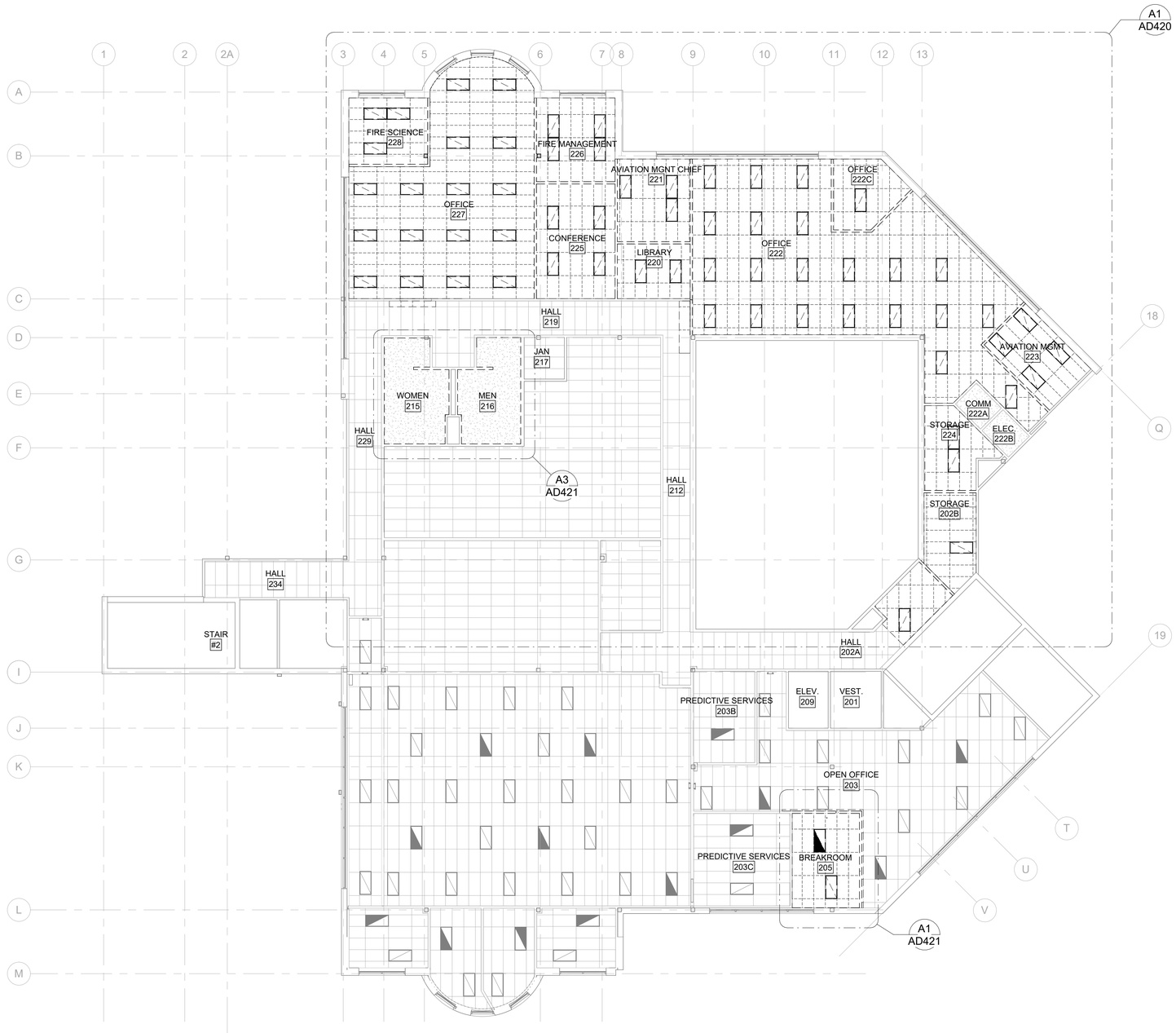

A1 SECOND FLOOR DEMOLITION REFLECTED CEILING PLAN

0 4' 8' 16' 24'

N

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C. MATCH ADJACENT EXISTING CONSTRUCTION FOR ALL NEW CONSTRUCTION.
D. SEE FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
E. EXISTING CEILINGS AND ASSOCIATED MECHANICAL AND ELECTRICAL ELEMENTS ARE SHOWN FOR COORDINATION PURPOSES FOR THE NECESSARY DISCIPLINES. VERIFY ALL ITEMS IN FIELD.

PLAN LEGEND

- ITEMS TO BE DEMOLISHED
- ITEMS TO REMAIN
- ACT CEILING TO BE DEMOLISHED. SEE KEYNOTES FOR DETAILS.
- NAME 101 — EXISTING ROOM NAME AND NUMBER
- X — KEYNOTE
- SIM — DIRECTION OF VIEW, IF APPLICABLE
- 1 XXX000 — DRAWING NUMBER / SHEET WHERE DRAWN
- DIMENSION TO FACE OF FRAMING
- DIMENSION TO GRID LINE
- ℄ — DIMENSION TO CENTER LINE

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AD120

Sheet 6 of 86

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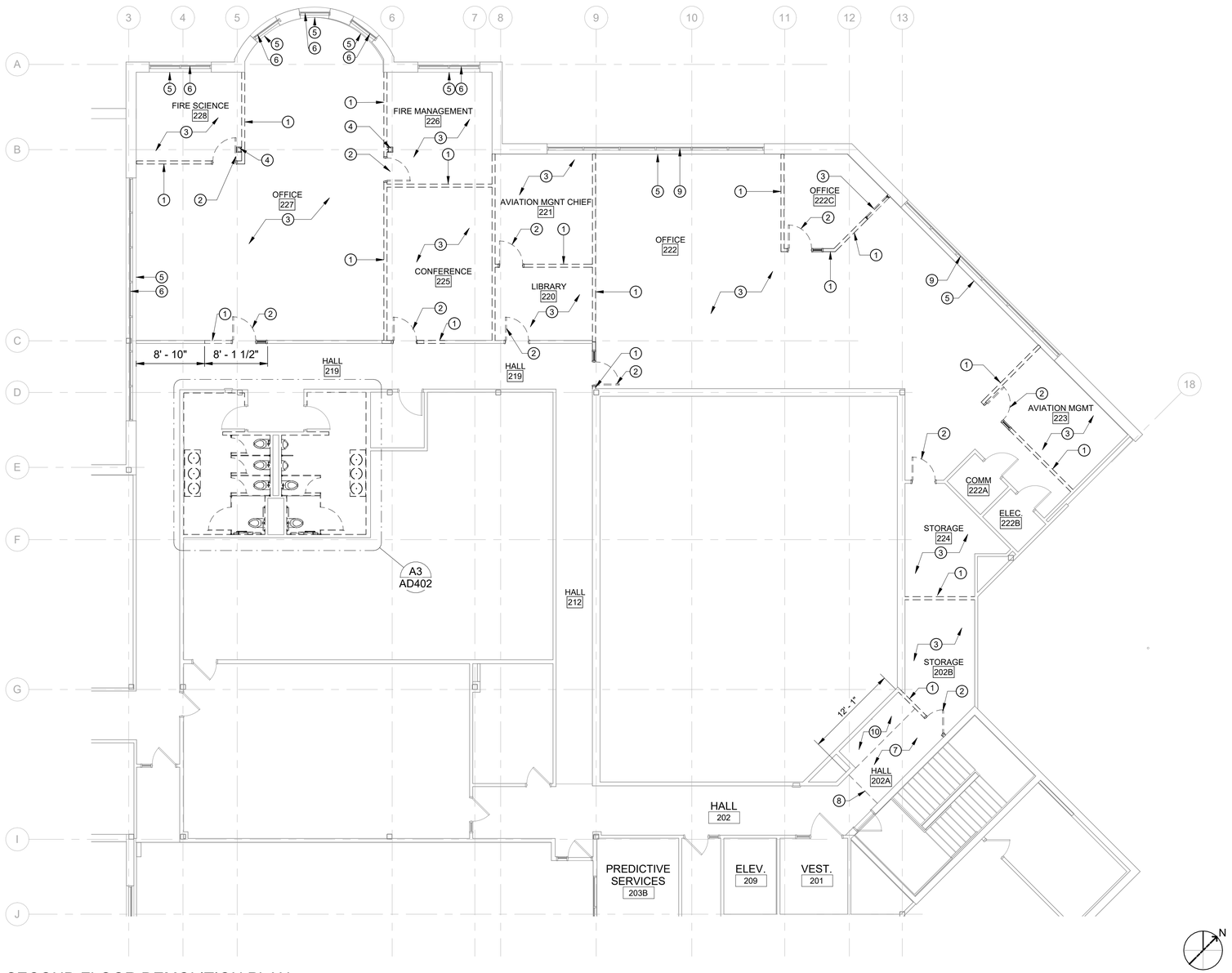

A1 SECOND FLOOR DEMOLITION PLAN

Cushing Terrell.

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800.757.9522

GENERAL SHEET NOTES

A. THESE DRAWINGS ARE BASED UPON EXISTING DRAWINGS AND SITE OBSERVATIONS. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING WORK.
B. PROTECT ALL EXISTING ITEMS TO REMAIN FROM DAMAGE. PATCH AND REPAIR ALL ITEMS DAMAGED DURING CONSTRUCTION, INCLUDING VOIDS AND FINISHES RESULTING FROM DEMOLITION REMOVALS.
C. MATCH ADJACENT EXISTING CONSTRUCTION FOR ALL NEW CONSTRUCTION.
D. SEE FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
E. WHERE EXISTING FLOOR FINISHES ARE REMOVED, PREP SLAB AND/OR UNDERLAYMENT AS REQUIRED TO RECEIVE NEW FLOOR FINISHES NOTED.

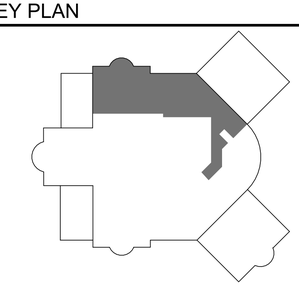
DEMO PLAN LEGEND

- ITEMS TO BE DEMOLISHED
- ITEMS TO REMAIN
- NAME 101 — EXISTING ROOM NAME AND NUMBER
- X — KEYNOTE
- SIM — DIRECTION OF VIEW, IF APPLICABLE
- 1 — DRAWING NUMBER
- XXX000 — SHEET WHERE DRAWN
- DIMENSION TO FACE OF FRAMING
- DIMENSION TO GRID LINE
- DIMENSION TO CENTER LINE

SHEET KEYNOTES

1 DEMOLISH EXISTING WALL AND ASSOCIATED ITEMS TO EXTENTS SHOWN. PATCH AND REPAIR ADJACENT EXISTING WALLS TO REAMAIN WHERE DAMAGE OCCURS.
2 DEMOLISH EXISTING DOOR, FRAME AND ALL HARDWARE.
3 DEMOLISH EXISTING CARPET FLOORING WITHIN ROOM NOTED. REMOVE EXISTING FLOORING DOWN TO EXISTING CONCRETE SLAB AND PREP FOR NEW FLOORING. REMOVED CARPET TO BE PALLETIZED FOR RECYCLING. SEE SPECS FOR DETAILS.
4 DEMOLISH FURRING AT EXISTING COLUMN. COLUMN TO REMAIN.
5 DEMOLISH EXISTING WINDOW SILL AND PREP FOR NEW SOLID SURFACE SILL.
6 DEMOLISH EXISTING WINDOW SHADES. PREP FOR REPLACEMENT SHADES.
7 DEMOLISH EXISTING CARPET FLOORING TO EXTENTS SHOWN. REMOVE EXISTING FLOORING DOWN TO EXISTING CONCRETE SLAB AND PREP FOR NEW LVT FLOORING.
8 EXTENT OF EXISTING FLOOR DEMOLITION.
9 DEMOLISH EXISTING WINDOW SHADES. PREP FOR REPLACEMENT SHADES.
10 DEMOLISH EXISTING LVT FLOORING. REMOVE EXISTING FLOORING DOWN TO EXISTING CONCRETE AND PREP FOR NEW FLOORING.

KEY PLAN



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NATIONAL SYSTEM OF PUBLIC LANDS
U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NIFC 300-JWH SUITE 222/227 RENOVATIONS

NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: SECOND FLOOR DEMOLITION PLAN

Designed by: MORTENSON
Drawn by: MACKENZIE
Checked by: MORTENSON
Approved by: SJBD

Revisions:

#	Description	Date
0	100% - ISSUED FOR CONSTRUCTION	05/2026

LICENSED ARCHITECT AR 984755
5/8/26
Scott D. Roberts
STATE OF IDAHO

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

AD401

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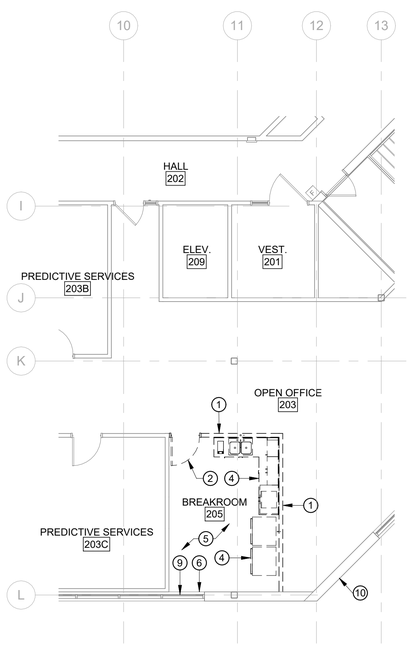
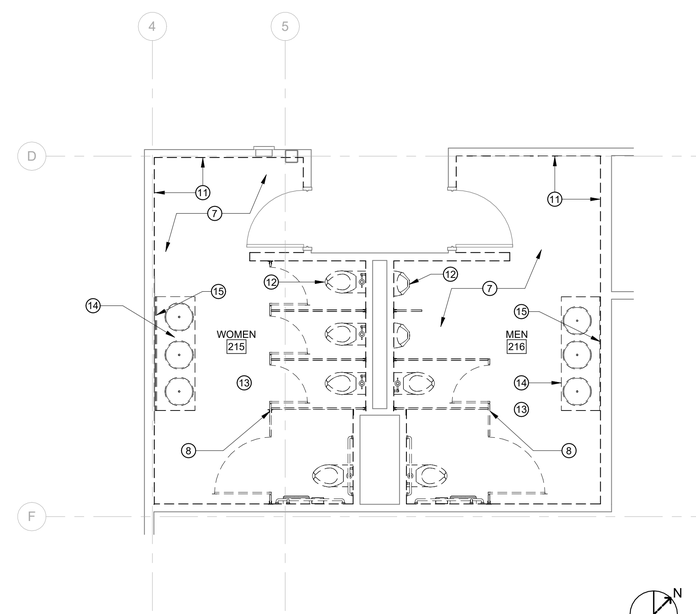


A1 ADD ALTERNATE DEMOLITION PLAN

NOTE: ALL WORK IN THIS VIEW TO BE PART OF ADD ALTERNATE

0 4' 8' 16'



A3 SECOND FLOOR DEMOLITION PLAN

0 2' 4' 8'

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800.757.9522

GENERAL SHEET NOTES

A. THESE DRAWINGS ARE BASED UPON EXISTING DRAWINGS AND SITE OBSERVATIONS. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING WORK.
B. PROTECT ALL EXISTING ITEMS TO REMAIN FROM DAMAGE. PATCH AND REPAIR ALL ITEMS DAMAGED DURING CONSTRUCTION, INCLUDING VOIDS AND FINISHES RESULTING FROM DEMOLITION REMOVALS.
C. MATCH ADJACENT EXISTING CONSTRUCTION FOR ALL NEW CONSTRUCTION.
D. SEE FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
E. WHERE EXISTING FLOOR FINISHES ARE REMOVED, PREP SLAB AND/OR UNDERLAYMENT AS REQUIRED TO RECEIVE NEW FLOOR FINISHES NOTED.

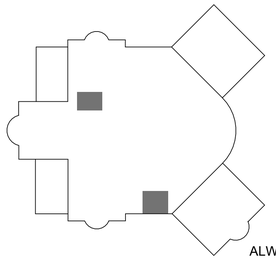
DEMO PLAN LEGEND

- ITEMS TO BE DEMOLISHED
- ITEMS TO REMAIN
- NAME 101 — EXISTING ROOM NAME AND NUMBER
- X — KEYNOTE
- SIM — DIRECTION OF VIEW, IF APPLICABLE
- 1 XXX000 — DRAWING NUMBER / SHEET WHERE DRAWN
- DIMENSION TO FACE OF FRAMING
- DIMENSION TO GRID LINE
- ℄ — DIMENSION TO CENTER LINE

SHEET KEYNOTES

1 DEMOLISH EXISTING WALL AND ASSOCIATED ITEMS TO EXTENTS SHOWN. PATCH AND REPAIR ADJACENT EXISTING WALLS TO REAMAIN WHERE DAMAGE OCCURS.
2 DEMOLISH EXISTING DOOR, FRAME AND ALL HARDWARE.
4 DEMOLISH ALL CASEWORK AND APPLIANCES INCLUDING REFRIGERATORS, MICROWAVES, COFFEE MACHINES, AND ASSOCIATED PLUMBING.
5 DEMOLISH EXISTING LVT FLOORING. REMOVE EXISTING FLOORING DOWN TO EXISTING CONCRETE AND PREP FOR NEW FLOORING.
6 DEMOLISH EXISTING WINDOW SILL AND PREP FOR NEW SOLID SURFACE SILL.
7 DEMOLISH EXISTING TILE FLOORING WITHIN ROOM NOTED. REMOVE EXISTING FLOORING DOWN TO EXISTING CONCRETE SLAB AND PREP FOR NEW FLOORING.
8 DEMOLISH EXISTING BATHROOM PARTITIONS.
9 DEMOLISH EXISTING WINDOW SHADES. PREP FOR REPLACEMENT SHADES.
10 DEMOLISH EXISTING EXHAUST VENT, SEE MECHANICAL.
11 DEMOLISH ALL EXISTING WALL TILE AND COORDINATING EXISTING TILE WALL BASE. PREP ALL SURFACES FOR NEW TILE INSTALLATION.
12 REMOVE ALL WALL HUNG PLUMBING COMPONENTS AND PRESERVE FOR REINSTALLATION. SEE PLUMBING ALSO.
13 DEMOLISH ALL WALL AND PARTITION-HUNG RESTROOM ACCESSORIES THROUGHOUT ROOM.
14 DEMOLISH EXISTING COUNTER, CASEWORK, AND PLUMBING FIXTURES.
15 REMOVE AND PROTECT MIRROR TO BE RE-INSTALLED AFTER PAINT AND CONSTRUCTION IS COMPLETE.

KEY PLAN



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NATIONAL SYSTEM OF PUBLIC LANDS
U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NIFC 300-JWH SUITE 222/227 RENOVATIONS

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United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: SECOND FLOOR DEMOLITION PLAN

Designed by: MORTENSON
Drawn by: MACKENZIE
Checked by: MORTENSON
Approved by: SJBD

Revisions:

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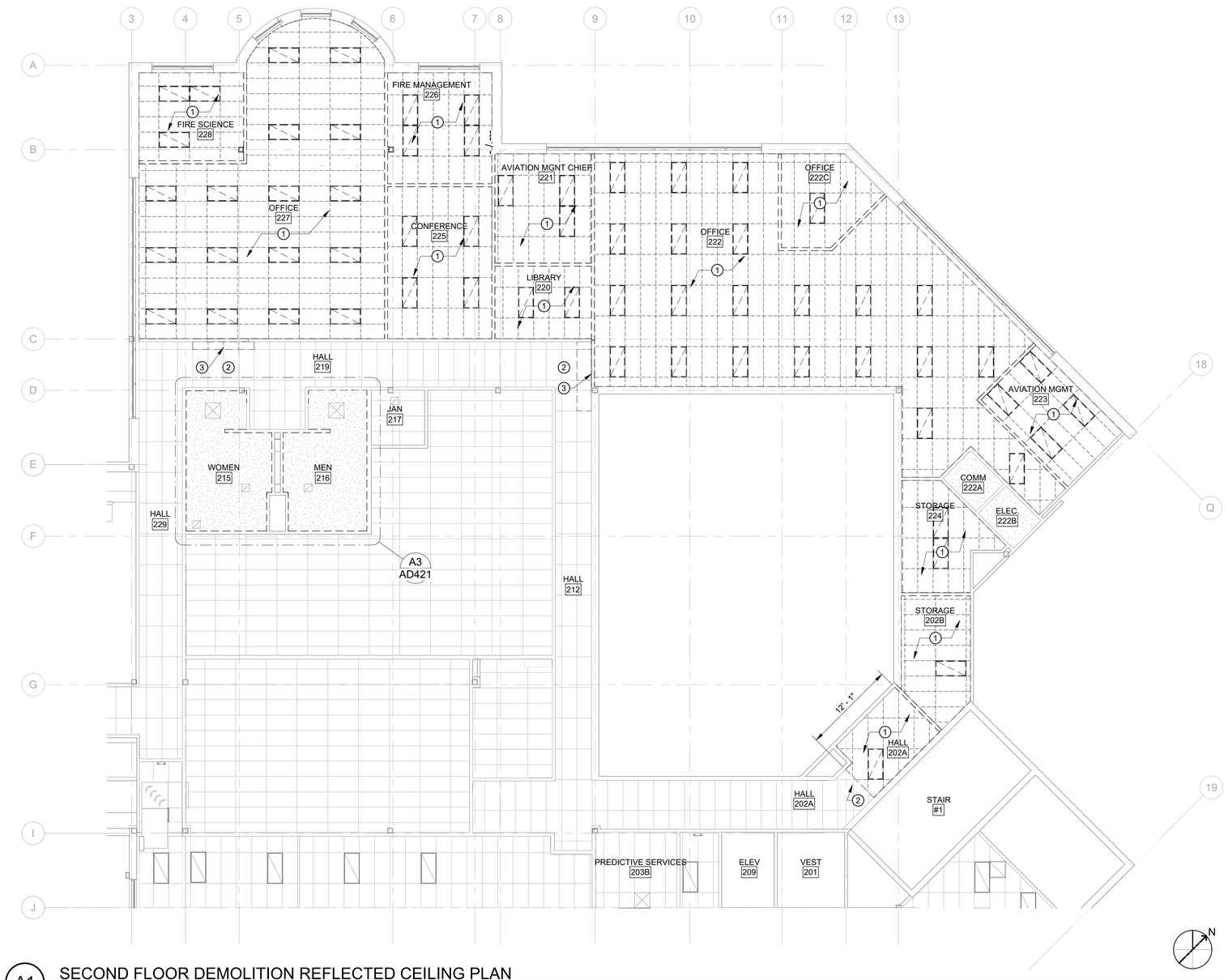
LICENSED ARCHITECT AR 984755
5/8/26
Scott D. Roberts
STATE OF IDAHO

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

AD402



A1 SECOND FLOOR DEMOLITION REFLECTED CEILING PLAN

GENERAL SHEET NOTES

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E. EXISTING CEILINGS AND ASSOCIATED MECHANICAL AND ELECTRICAL ELEMENTS ARE SHOWN FOR COORDINATION PURPOSES FOR THE NECESSARY DISCIPLINES. VERIFY ALL ITEMS IN FIELD.

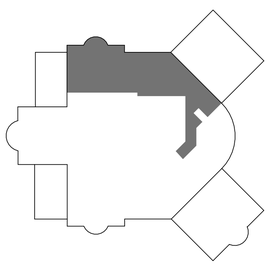
PLAN LEGEND

- ITEMS TO BE DEMOLISHED
- ITEMS TO REMAIN
- ACT CEILING TO BE DEMOLISHED. SEE KEYNOTES FOR DETAILS.
- NAME 101 — EXISTING ROOM NAME AND NUMBER
- X — KEYNOTE
- SIM — DIRECTION OF VIEW, IF APPLICABLE
- 1 — DRAWING NUMBER
- XXX000 — SHEET WHERE DRAWN
- DIMENSION TO FACE OF FRAMING
- DIMENSION TO GRID LINE
- DIMENSION TO CENTER LINE

SHEET KEYNOTES

1 DEMOLISH EXISTING CEILING, GRIDS, SUSPENSION SYSTEMS, AND LIGHT FIXTURES IN THEIR ENTIRETY. SEE FIRE, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR OTHER WORK TO OCCUR WITHIN ROOM.
2 EXISTING CEILING TO REMAIN. REMOVE GRID AND TILES AS NEEDED FOR ADJACENT WALL DEMOLITION AND CONSTRUCTION. REINSTALL GRID AND TILES AFTER WALL CONSTRUCTION IS COMPLETED.
3 DEMOLISH EXISTING CEILING TILE AND GRID AS NEEDED FOR WALL DEMOLITION IN THIS AREA.

KEY PLAN



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NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: SECOND FLOOR DEMO REFLECTED CEILING PLAN

Designed by: MORTENSON
Drawn by: MACKENZIE
Checked by: MORTENSON
Approved by: SJBD

Revisions:

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5/8/26
Scott D. Roberts
STATE OF IDAHO

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

AD420

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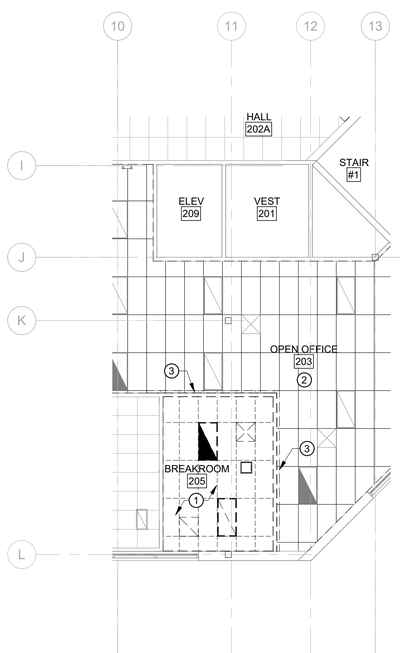
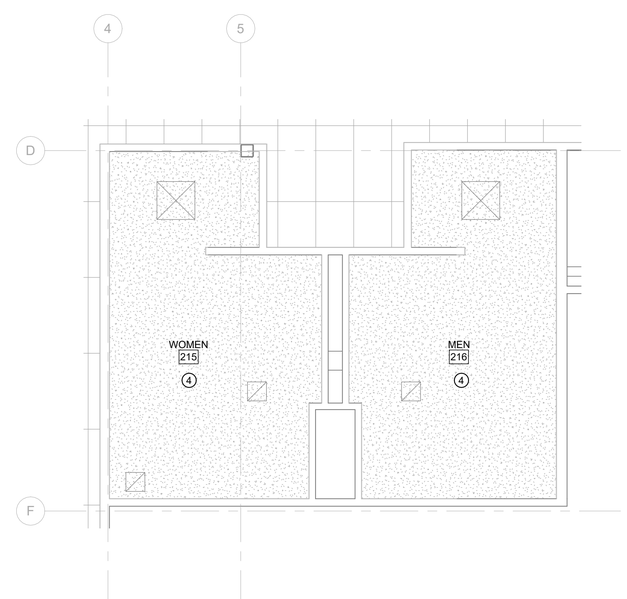


A1 ADD ALTERNATE DEMOLITION REFLECTED CEILING PLAN

NOTE: ALL WORK IN THIS VIEW TO BE PART OF ADD ALTERNATE

0 4' 8' 16'



A3 SECOND FLOOR DEMOLITION REFLECTED CEILING PLAN

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PLAN LEGEND

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- ITEMS TO REMAIN
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- NAME 101 — EXISTING ROOM NAME AND NUMBER
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- XXX000 — SHEET WHERE DRAWN
- DIMENSION TO FACE OF FRAMING
- DIMENSION TO GRID LINE
- ℄ — DIMENSION TO CENTER LINE

SHEET KEYNOTES

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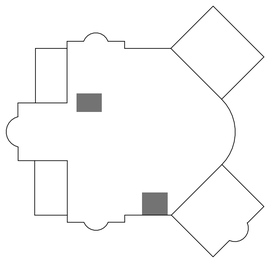
2 EXISTING CEILING TO REMAIN. REMOVE GRID AND TILES AS NEEDED FOR ADJACENT WALL DEMOLITION AND CONSTRUCTION. REINSTALL GRID AND TILES AFTER WALL CONSTRUCTION IS COMPLETED.
3 DEMOLISH EXISTING CEILING TILE AND GRID AS NEEDED FOR WALL DEMOLITION IN THIS AREA.
4 EXISTING CEILING TO REMAIN. PATCH AND REPAIR AS NEEDED FOR OTHER WORK TO OCCUR IN THIS ROOM.

KEY PLAN



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NIFC 300-JWH SUITE 222/227 RENOVATIONS

NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: SECOND FLOOR DEMO REFLECTED CEILING PLAN

Designed by: MORTENSON
Drawn by: MACKENZIE
Checked by: MORTENSON
Approved by: SJBD

Revisions:

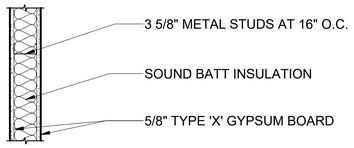
#	Description	Date
0	100% - ISSUED FOR CONSTRUCTION	05/2026

LICENSED ARCHITECT AR 984755
5/8/26
Scott D. Roberts
STATE OF IDAHO

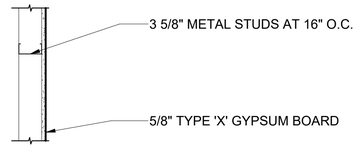
BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

AD421

WALL ASSEMBLIES



A 3 5/8" PARTITION - STC 45 MIN



B 3 5/8" FURRING WALL

WALL TYPE LEGEND

SCALE: 1" = 1'-0"

GENERAL WALL TYPE NOTES:

A. SEE INTERIOR FINISH SCHEDULE (SHEET INT-600) AND FOR WALL FINISHES.
B. PROVIDE BLOCKING AS REQUIRED TO SECURE WALL HUNG COMPONENTS.
C. EXTEND ALL COMPONENTS TO UNDERSIDE OF DECK, UNLESS NOTED OTHERWISE.

WALL TYPE MODIFIERS:

1. NOT USED.

W1 **WALL TYPE DESCRIPTION**

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NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: WALL TYPES AND NOTES

Designed by: MORTENSON
Checked by: MORTENSON
Drawn by: MACKENZIE
Approved by: SJBD

Revisions:

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5/8/26
Scott D. Roberts
STATE OF IDAHO

BLM Project # 140L062F0116
Project # 070117.029
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AE001

Sheet 11 of 86

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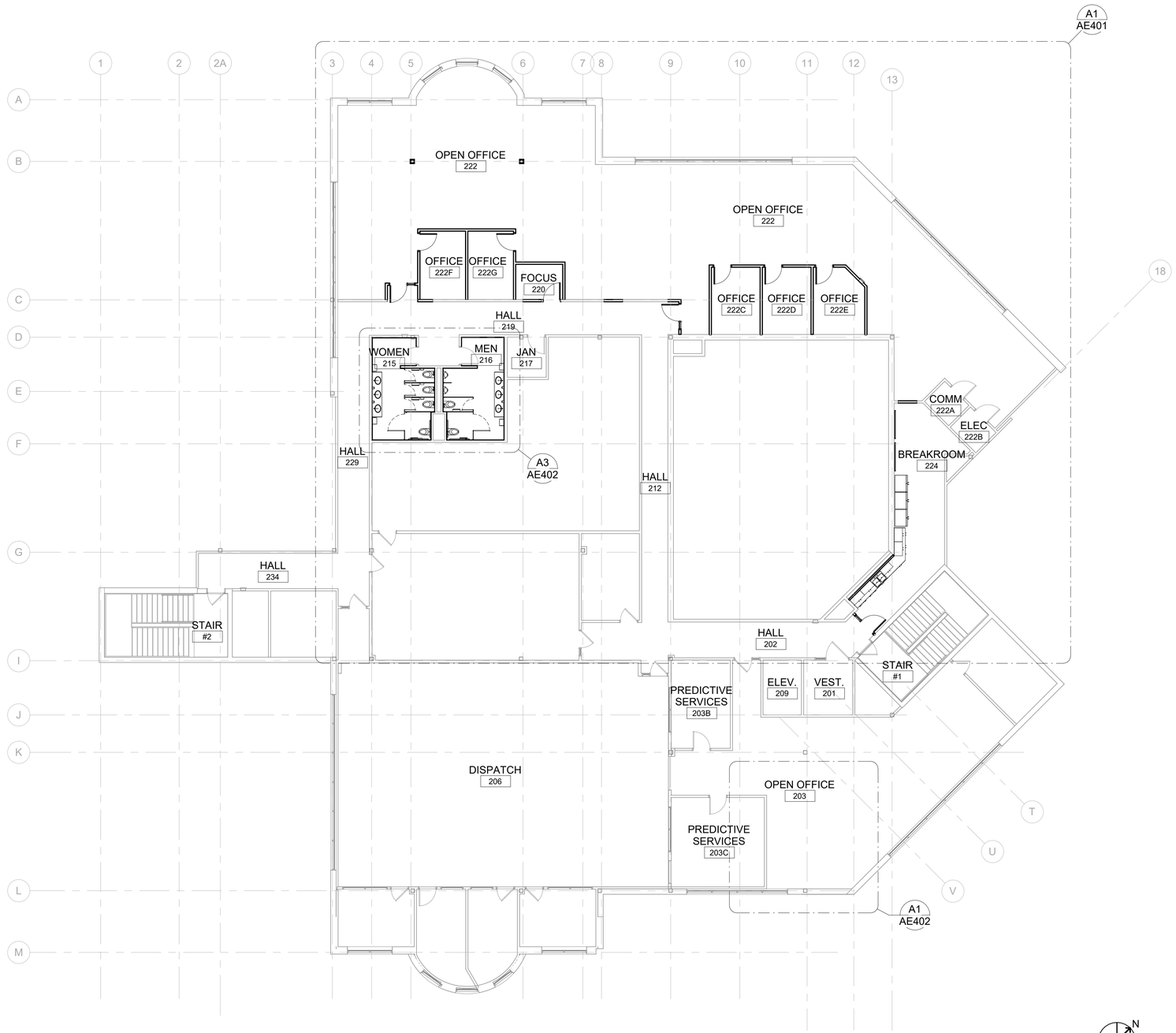

A1 SECOND FLOOR OVERALL PLAN

PLAN LEGEND

- X / XX — ASSEMBLY TYPE (SEE ASSEMBLIES SHEET); ASSEMBLY MODIFIER, PER TYPE
- NAME 101 — ROOM NAME AND NUMBER
- X — KEYNOTE
- SIM / 1 / XXX000 — DIRECTION OF VIEW, IF APPLICABLE; DRAWING NUMBER; SHEET WHERE DRAWN
- 101-1 — DOOR NUMBER (SEE SHEET A601A)
- DIMENSION TO FACE OF FRAMING
- ℄ — DIMENSION TO CENTER LINE

GENERAL SHEET NOTES

A. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS
B. REFER TO CODE PLANS FOR LOCATIONS OF ANY RATED DOORS AND ASSEMBLIES
C. FOR ANY WALLS NOT LABELLED, USE TYPE MOST CONSISTENT WITH SIMILAR APPLICATIONS/LOCATIONS.
D. ALL STUD WALLS TO HAVE 4" STUD RETURN AT DOORS BETWEEN STUD OPENINGS TO PERPENDICULAR WALL AT HINGE SIDE OF DOOR.
E. SEE AE001 FOR WALL TYPES AND NOTES.
F. SEE CIVIL, STRUCTURAL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

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Scott D. Roberts
STATE OF IDAHO

BLM Project # 140L062F0116
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AE101

Sheet 12 of 86

ALWAYS THINK SAFETY

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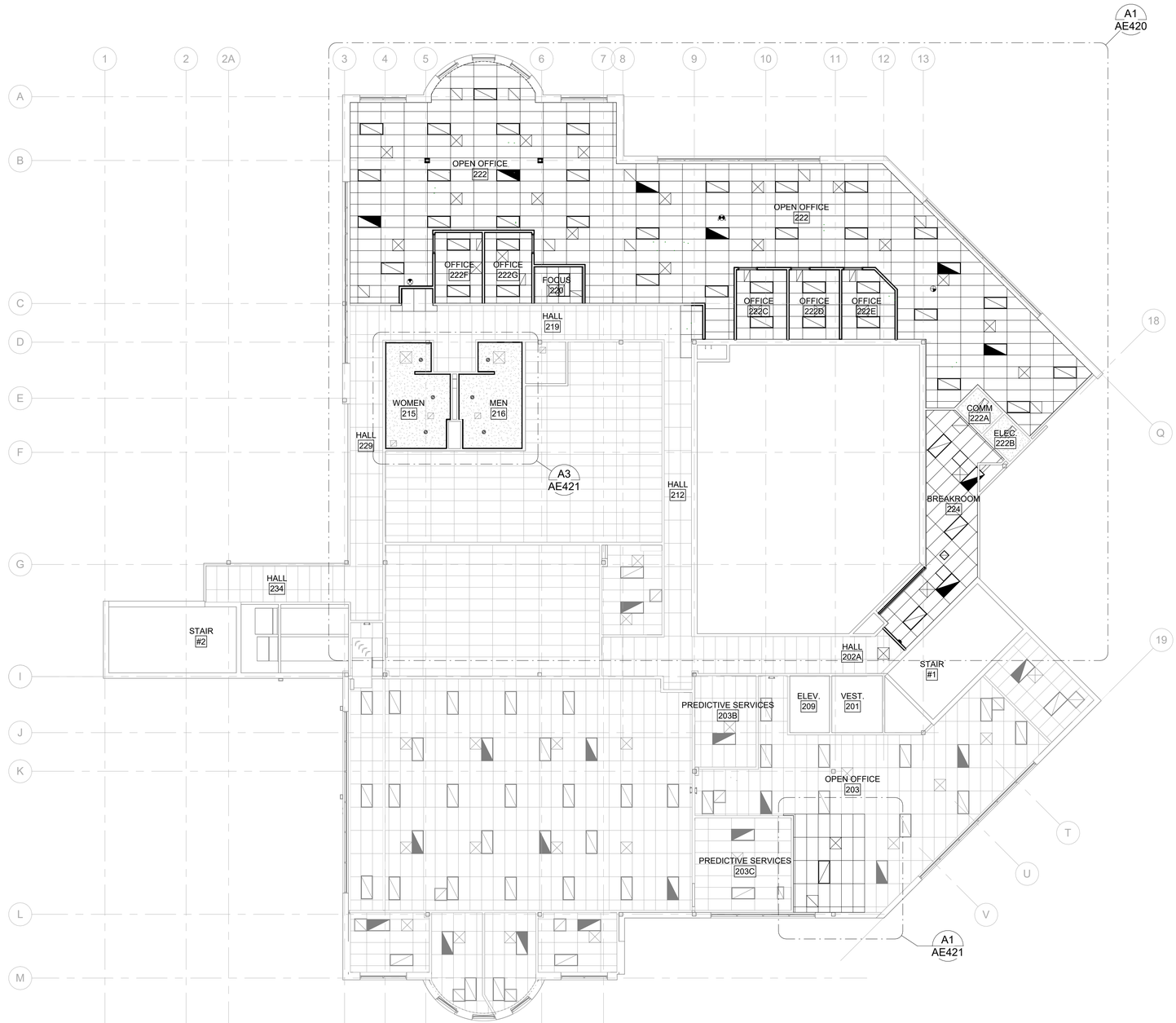

A1 SECOND FLOOR REFLECTED CEILING OVERALL PLAN

0 4' 8' 16' 24'

REFLECTED CEILING LEGEND

CEILING MATERIAL — ACT
CEILING HEIGHT — 0'-0 0/0"
ADDITIONAL NOTES — NOTES

ACT
2X4 ACOUSTICAL LAY-IN CEILING

LIGHTING - SEE ELECTRICAL

HVAC REGISTERS - SEE MECHANICAL

CEILING HEIGHT

VAR VARIES

ADDITIONAL NOTES

1. EXISTING CEILING. CUT AND PATCH AS NEEDED TO ACCOMODATE NEW WORK. PROVIDE SUPPORT WHERE CEILING IS CUT AS NEEDED.

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NATIONAL SYSTEM OF PUBLIC LANDS
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AE120

Sheet 13 of 86

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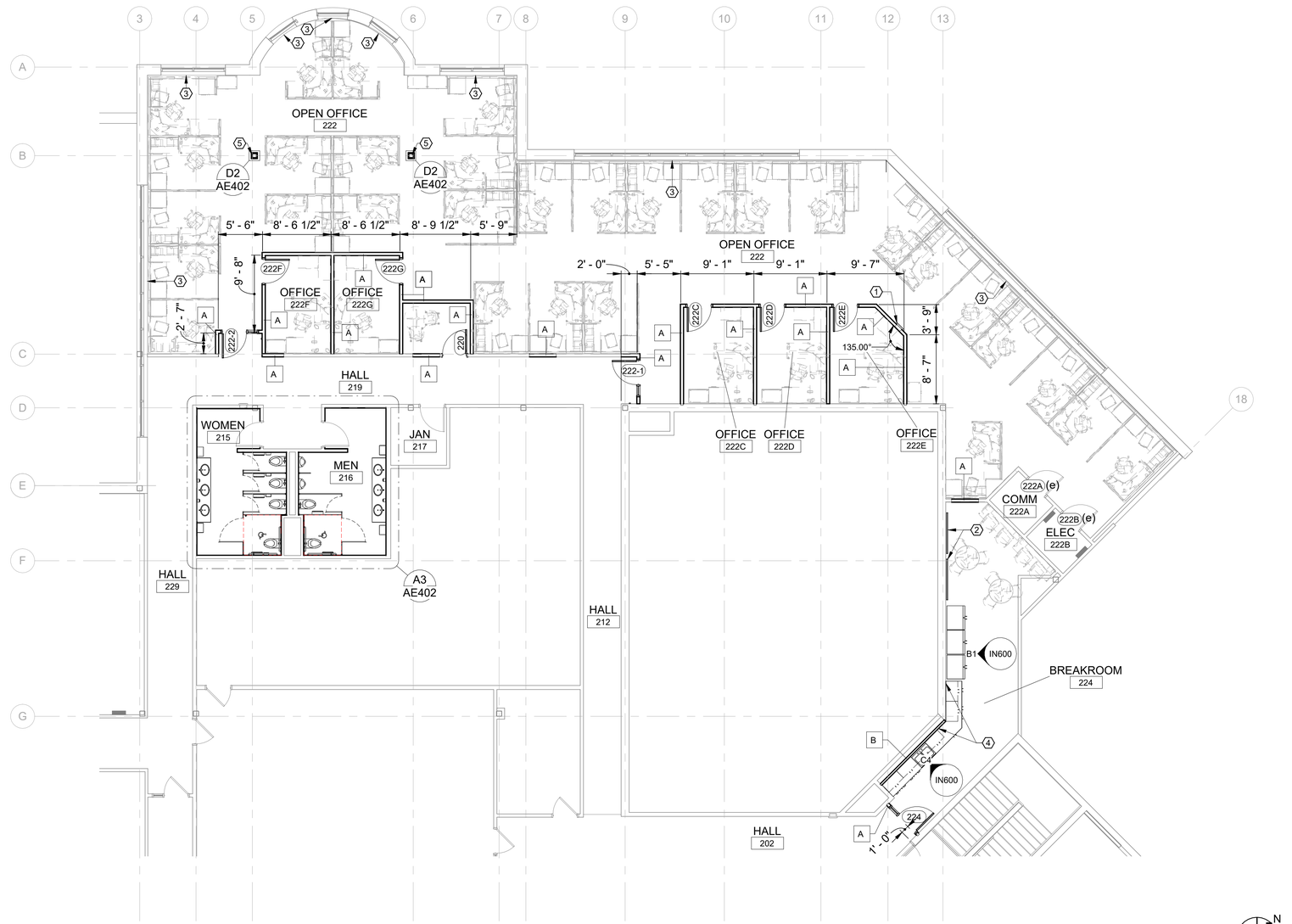

A1 SECOND FLOOR PLAN

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PLAN LEGEND

- X / XX — ASSEMBLY TYPE (SEE ASSEMBLIES SHEET); ASSEMBLY MODIFIER, PER TYPE
- NAME 101 — ROOM NAME AND NUMBER
- X — KEYNOTE
- 1 SIM / XXX000 — DIRECTION OF VIEW, IF APPLICABLE; DRAWING NUMBER; SHEET WHERE DRAWN
- 101-1 — DOOR NUMBER (SEE SHEET A601A)
- DIMENSION TO FACE OF FRAMING
- ℄ — DIMENSION TO CENTER LINE

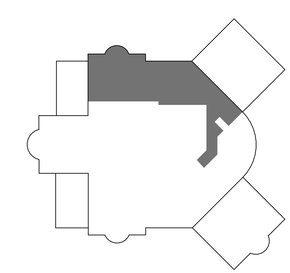
GENERAL SHEET NOTES

A. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS
B. REFER TO CODE PLANS FOR LOCATIONS OF ANY RATED DOORS AND ASSEMBLIES
C. FOR ANY WALLS NOT LABELLED, USE TYPE MOST CONSISTENT WITH SIMILAR APPLICATIONS/LOCATIONS.
D. ALL STUD WALLS TO HAVE 4" STUD RETURN AT DOORS BETWEEN STUD OPENINGS TO PERPENDICULAR WALL AT HINGE SIDE OF DOOR.
E. SEE AE001 FOR WALL TYPES AND NOTES.
F. SEE CIVIL, STRUCTURAL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

SHEET KEYNOTES

1 FIRE EXTINGUISHER CABINET.
2 WALL MOUNTED TELEVISION, OFOI. PROVIDE BLOCKING IN WALL FOR INSTALLATION.
3 NEW SOLID SURFACE WINDOW SILL, SEE DETAIL A1/AE501.
4 PROVIDE BLOCKING IN WALL FOR CABINETRY.
5 EXISTING COLUMN TO REMAIN, FINISH PER DETAIL AND FINISH PLANS.

KEY PLAN



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NIFC 300-JWH SUITE 222/227 RENOVATIONS

NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: SECOND FLOOR PLAN

Designed by: MORTENSON
Drawn by: MACKENZIE
Checked by: MORTENSON
Approved by: SJBD

Revisions:

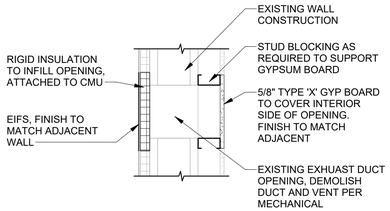
#	Description	Date
0	100% - ISSUED FOR CONSTRUCTION	05/2026

LICENSED ARCHITECT AR 984755
5/8/26
Scott D. Roberts
STATE OF IDAHO

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

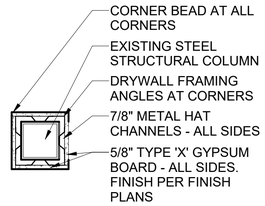
AE401

5/8/2026 11:28:21 AM 100% - ISSUED FOR CONSTRUCTION U:\tylermortenson\Documents_RevitLocalTemp\LBYDBLM25_TO29_arch24_tylermortenson.rvt



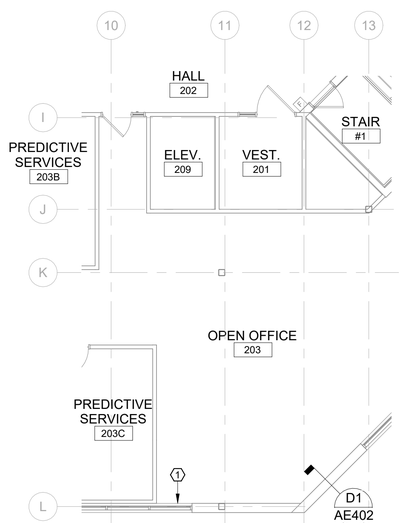
D1 EIFS PATCH AT EXHAUST

0 0.5' 1' 2'



D2 COLUMN WRAP

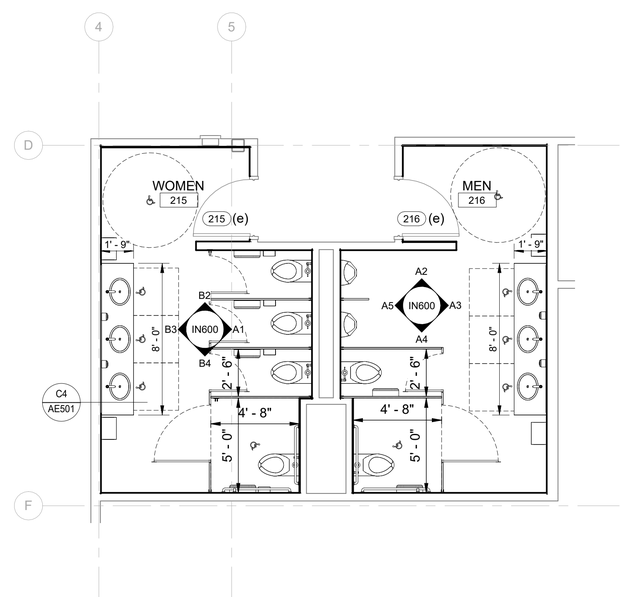
0 0.5' 1' 2'



A1 ADD ALTERNATE FLOOR PLAN

NOTE: ALL WORK IN THIS VIEW TO BE PART OF ADD ALTERNATE

0 4' 8' 16'



A3 SECOND FLOOR RESTROOM PLAN

0 2' 4' 8'

PLAN LEGEND

- X / XX — ASSEMBLY TYPE (SEE ASSEMBLIES SHEET); ASSEMBLY MODIFIER, PER TYPE
- NAME / 101 — ROOM NAME AND NUMBER
- X — KEYNOTE
- 1 / SIM / XXX000 — DIRECTION OF VIEW, IF APPLICABLE; DRAWING NUMBER; SHEET WHERE DRAWN
- 101-1 — DOOR NUMBER (SEE SHEET A601B)
- DIMENSION TO FACE OF FRAMING
- ℄ — DIMENSION TO CENTER LINE

GENERAL SHEET NOTES

A. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS
B. REFER TO CODE PLANS FOR LOCATIONS OF ANY RATED DOORS AND ASSEMBLIES
C. FOR ANY WALLS NOT LABELLED, USE TYPE MOST CONSISTENT WITH SIMILAR APPLICATIONS/LOCATIONS.
D. ALL STUD WALLS TO HAVE 4" STUD RETURN AT DOORS BETWEEN STUD OPENINGS TO PERPENDICULAR WALL AT HINGE SIDE OF DOOR.
E. SEE AE001 FOR WALL TYPES AND NOTES.
F. SEE CIVIL, STRUCTURAL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

SHEET KEYNOTES

1 NEW SOLID SURFACE WINDOW SILL, SEE DETAIL A1/AE501.

KEY PLAN

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U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NIFC 300-JWH SUITE 222/227 RENOVATIONS

NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: SECOND FLOOR PLAN

Designed by: MORTENSON
Drawn by: MACKENZIE
Checked by: MORTENSON
Approved by: SJBD

Revisions:

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LICENSED ARCHITECT AR 984755
5/8/26
Scott D. Roberts
STATE OF IDAHO

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

AE402

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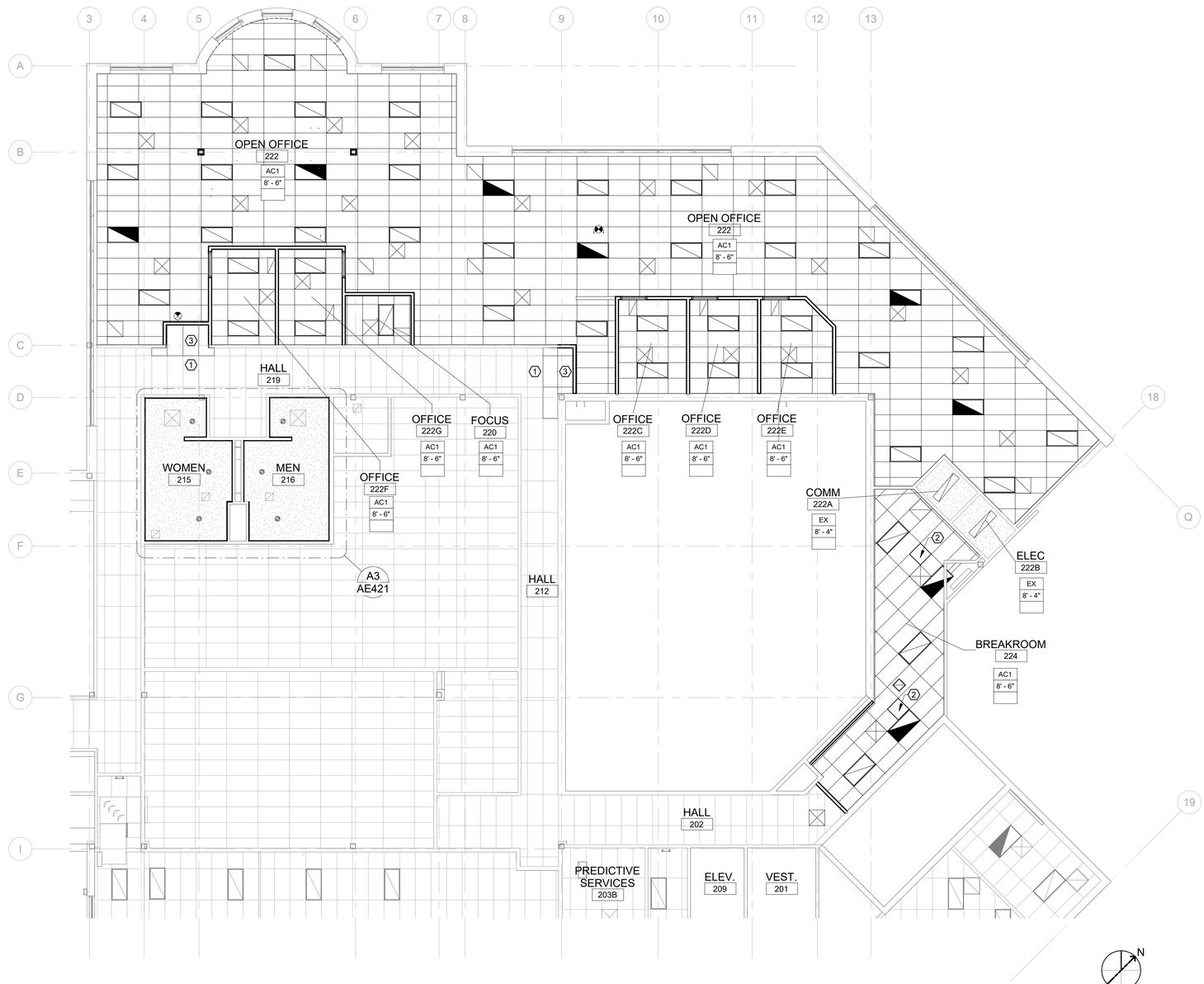

A1 SECOND FLOOR REFLECTED CEILING PLAN

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REFLECTED CEILING LEGEND

CEILING MATERIAL — ACT
CEILING HEIGHT — 0'-0 0/0"
ADDITIONAL NOTES — NOTES

ACT
2X4 ACOUSTICAL LAY-IN CEILING

LIGHTING - SEE ELECTRICAL

HVAC REGISTERS - SEE MECHANICAL

CEILING HEIGHT

VAR VARIES

ADDITIONAL NOTES

1. EXISTING CEILING. CUT AND PATCH AS NEEDED TO ACCOMODATE NEW WORK. PROVIDE SUPPORT WHERE CEILING IS CUT AS NEEDED.

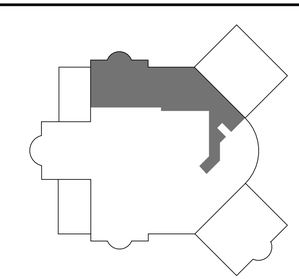
SHEET KEYNOTES

1 EXISTING CEILING TO REMAIN. REINSTALL ALL CEILING GRID AND TILES REMOVED FOR DEMOLITION OR CONSTRUCTION. REPLACE ANY CEILING GRID OR TILES DAMAGED BY CONSTRUCTION ACTIVITIES.

2 TUBULAR DAYLIGHTING DEVICE. SEE DETAIL C3 FOR MOUNTING TO EXISTING ROOF.

3 PROVIDE NEW CEILING GRID AND TILE IN THIS AREA, CONTINUOUS WITH SURROUNDING EXISTING CEILING. MATCH EXISTING CEILING HEIGHT.

KEY PLAN



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United States Department of the Interior Bureau of Land Management
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Sheet Title: SECOND FLOOR REFLECTED CEILING PLAN

Designed by: MORTENSON
Drawn by: MACKENZIE
Checked by: MORTENSON
Approved by: SJBD

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5/8/26
Scott D. Roberts
STATE OF IDAHO

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

AE420

Sheet 16 of 86

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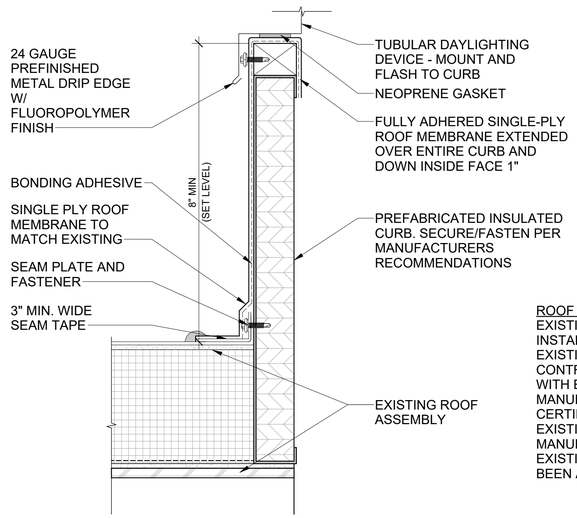


ROOF WARRANTY NOTE:
EXISTING ROOFING SYSTEM WAS INSTALLED IN 2020 AND IS UNDER AN EXISTING MANUFACTURER WARRANTY. CONTRACTOR TO COORDINATE WORK WITH EXISTING ROOFING SYSTEM MANUFACTURER AND PROVIDE A CERTIFIED STATEMENT FROM THE EXISTING ROOFING SYSTEM MANUFACTURER STATING THAT EXISTING ROOF WARRANTY HAS NOT BEEN AFFECTED BY THIS WORK.

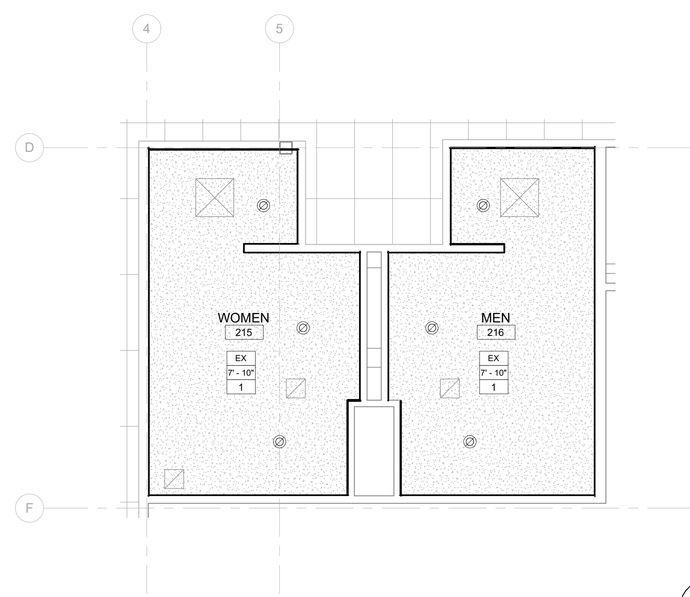
C1 ROOF CURB AT TUBULAR DAYLIGHTING DEVICE

0 0.125' 0.25' 0.5' 0.75'

A1 ADD ALTERNATE REFLECTED CEILING PLAN

NOTE: ALL WORK IN THIS VIEW TO BE PART OF ADD ALTERNATE

0 4' 8' 16'



A3 SECOND FLOOR REFLECTED CEILING PLAN

0 2' 4' 8'

REFLECTED CEILING LEGEND

CEILING MATERIAL — ACT
CEILING HEIGHT — 0'-0 0/0"
ADDITIONAL NOTES — NOTES

ACT
2X4 ACOUSTICAL LAY-IN CEILING

LIGHTING - SEE ELECTRICAL

HVAC REGISTERS - SEE MECHANICAL

CEILING HEIGHT

VAR VARIES

ADDITIONAL NOTES

1. EXISTING CEILING. CUT AND PATCH AS NEEDED TO ACCOMODATE NEW WORK. PROVIDE SUPPORT WHERE CEILING IS CUT AS NEEDED.

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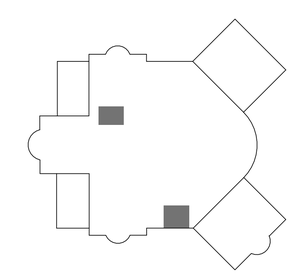
KEY PLAN



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NIFC 300-JWH SUITE 222/227 RENOVATIONS

NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: SECOND FLOOR REFLECTED CEILING PLAN

Designed by: MORTENSON
Drawn by: MACKENZIE
Checked by: MORTENSON
Approved by: SJBD

Revisions:

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LICENSED ARCHITECT AR 984755
5/8/26
Scott D. Roberts
STATE OF IDAHO

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

AE421

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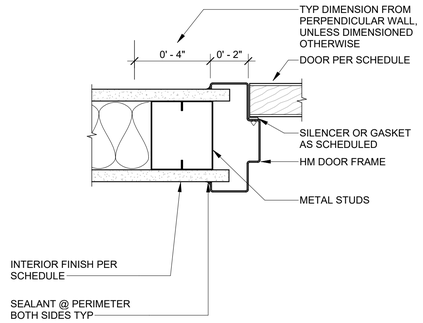
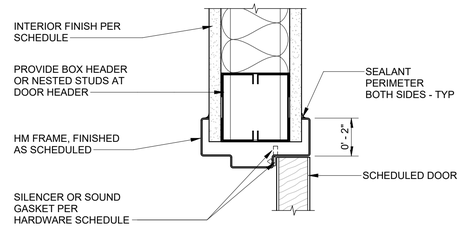


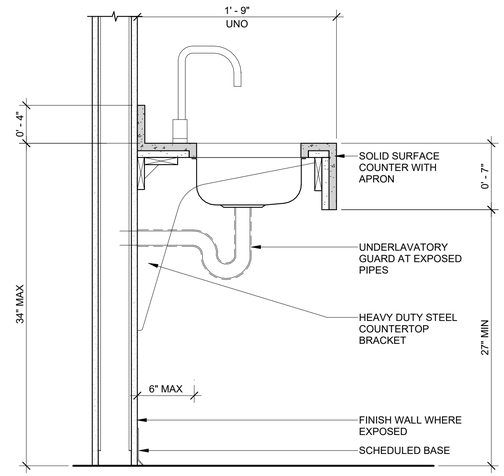
D1 TYP. INTERIOR HM DOOR JAMB

0 0.125' 0.25' 0.5' 0.75'



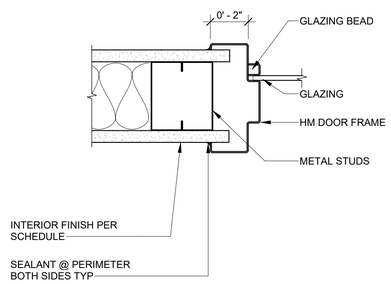
D2 TYP. INTERIOR HM DOOR HEAD

0 0.125' 0.25' 0.5' 0.75'



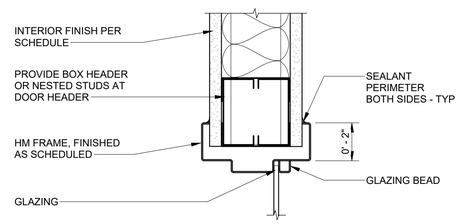
REFERENCE ELEVATIONS AND MATERIALS LIST FOR FINISHES

C4 SINK W/ SOLID SURFACE APRON



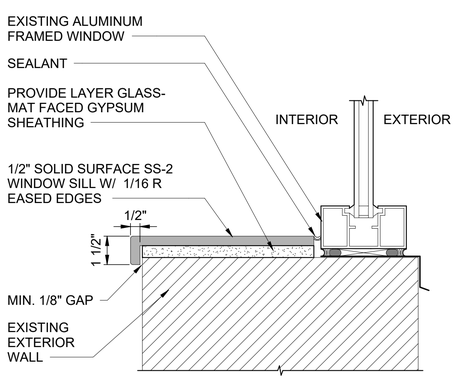
B1 TYP. INTERIOR HM TRANSOM/SIDELITE JAMB

0 0.125' 0.25' 0.5' 0.75'



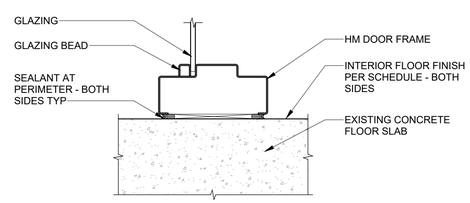
B2 TYP. INTERIOR HM TRANSOM/SIDELITE HEAD

0 0.125' 0.25' 0.5' 0.75'



A1 SOLID SURFACE WINDOW SILL

0 0.125' 0.25' 0.5' 0.75'



A2 TYP. INTERIOR HM SIDELITE SILL

0 0.125' 0.25' 0.5' 0.75'

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NIFC 300-JWH SUITE 222/227 RENOVATIONS

NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: DOOR DETAILS

Designed by: MORTENSON
Drawn by: MACKENZIE
Checked by: MORTENSON
Approved by: SJBD

Revisions:

#	Description	Date
0	100% - ISSUED FOR CONSTRUCTION	05/2026

LICENSED ARCHITECT AR 984755
5/8/26
Scott D. Roberts
STATE OF IDAHO

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

AE501

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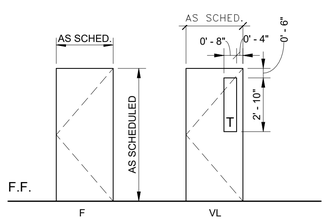
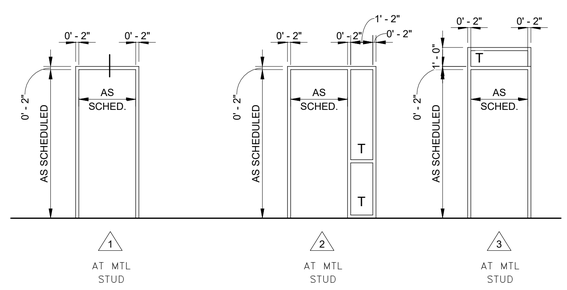
DOOR, FRAME AND HARDWARE SCHEDULE																	
DOOR NUMBER	ROOM NUMBER	ROOM NAME	DOOR							FRAME						FIRE RATING	HARDWARE GROUP
			SIZE			MTL	TYPE	GLAZE	NOTES	MTL	TYPE	DETAIL			NOTES		
			W	H	T							HEAD	JAMB	SILL			
220	220	FOCUS	3' - 0"	7' - 0"	0' - 1 3/4"	WD	VL	T	1	HM	1	D2/AE501	D1/AE501	-	-	--	3
222-1	222	OPEN OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	WD	VL	T	1	HM	2	B2&D2/AE501	B1&D1/AE501	A2/AE501	-	-	2
222-2	222	OPEN OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	WD	VL	T	1	HM	2	B2&D2/AE501	B1&D1/AE501	A2/AE501	-	-	2
222C	222C	OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	WD	VL	T	-	HM	3	B2&D2/AE501	B1&D1/AE501	-	-	-	1
222D	222D	OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	WD	VL	T	-	HM	3	B2&D2/AE501	B1&D1/AE501	-	-	-	1
222E	222E	OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	WD	VL	T	-	HM	3	B2&D2/AE501	B1&D1/AE501	-	-	-	1
222F	222F	OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	WD	VL	T	-	HM	3	B2&D2/AE501	B1&D1/AE501	-	-	-	1
222G	222G	OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	WD	VL	T	-	HM	3	B2&D2/AE501	B1&D1/AE501	-	-	-	1
224	224	BREAKROOM	3' - 0"	7' - 0"	0' - 1 3/4"	WD	VL	T	-	HM	2	B2&D2/AE501	B1&D1/AE501	A2/AE501	-	-	3

DOOR, FRAME AND HARDWARE SCHEDULE - EXISTING																	
DOOR NUMBER	ROOM NUMBER	ROOM NAME	DOOR							FRAME						FIRE RATING	HARDWARE GROUP
			SIZE			MTL	TYPE	GLAZE	NOTES	MTL	TYPE	DETAIL			NOTES		
			W	H	T							HEAD	JAMB	SILL			
222A	222A	COMM	3' - 0"	7' - 0"	0' - 1 3/4"	WD	EX	-	-	HM	EX	-	-	-	1	--	-
222B	222B	ELEC	3' - 0"	7' - 0"	0' - 1 3/4"	WD	EX	-	-	HM	EX	-	-	-	1	--	-

DOOR TYPES



HOLLOW METAL FRAME TYPES



GENERAL NOTES

A. SEE FLOOR PLANS FOR DOOR AND FRAME LOCATIONS.
B. FIELD VERIFY ALL ROUGH OPENING DIMENSIONS PRIOR TO FABRICATION/ INSTALLATION.
C. PROVIDE ONE ELECTRICAL CONDUIT RUN FROM DOOR STRIKE TO ABOVE ADJACENT CEILING SPACE AS NEEDED FOR DOORS TO RECEIVE ELECTRIC HARDWARE.
D. SEAL ALL PENETRATIONS IN ALL STC RATED WALLS WITH ACOUSTICAL SEALANT. SEE AE001 FOR STC WALLS.
E. PAINT ALL NEW HOLLOW METAL FRAMES 'P2'.

ABBREVIATIONS

FF	FACTORY FINISH
HM	HOLLOW METAL
PT	PAINT
ST	STEEL
T	1/4" TEMPERED GLAZING (MONOLITHIC)
WD	SOLID CORE WOOD
VL	VISION LITE

DOOR NOTES

1. INSTALL DOOR STOP 6" MINIMUM FROM LATCH SIDE OF DOOR FOR GOVERNMENT INSTALLATION OF ANCHORMAN DOOR BARRICADE DEVICE.

FRAME NOTES

1. PAINT EXISTING FRAME 'P2'.

GLAZING TYPES

T TEMPERED GLAZING

DOOR HARDWARE

GROUP 1 - OFFICES
- OFFICE LOCKSET W/ INTERIOR TURN-BUTTON
- HINGES
- DOOR STOP/ HOLD-OPEN
- DOOR SILENCERS

GROUP 2 - OFFICES W/ SECURITY
- ELECTROMECHANICAL MORTISE LOCKSET
- HINGES
- ELECTRIFIED HINGE
- CLOSER HOLDER RELEASE DEVICE
- DOOR STOP
- DOOR POSITION SWITCH
- CARD READER
- DOOR SILENCERS
- GASKETING
- DOOR SWEEP

GROUP 3 - CONFERENCE/SHARED USE SPACES
- OFFICE LOCKSET W/ INTERIOR TURN-BUTTON
- HINGES
- DOOR STOP/ HOLD-OPEN
- DOOR SILENCERS

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NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: DOOR SCHEDULE AND ELEVATIONS

Designed by: MORTENSON
Drawn by: MACKENZIE
Checked by: MORTENSON
Approved by: SJBD

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AE601

ALWAYS THINK SAFETY

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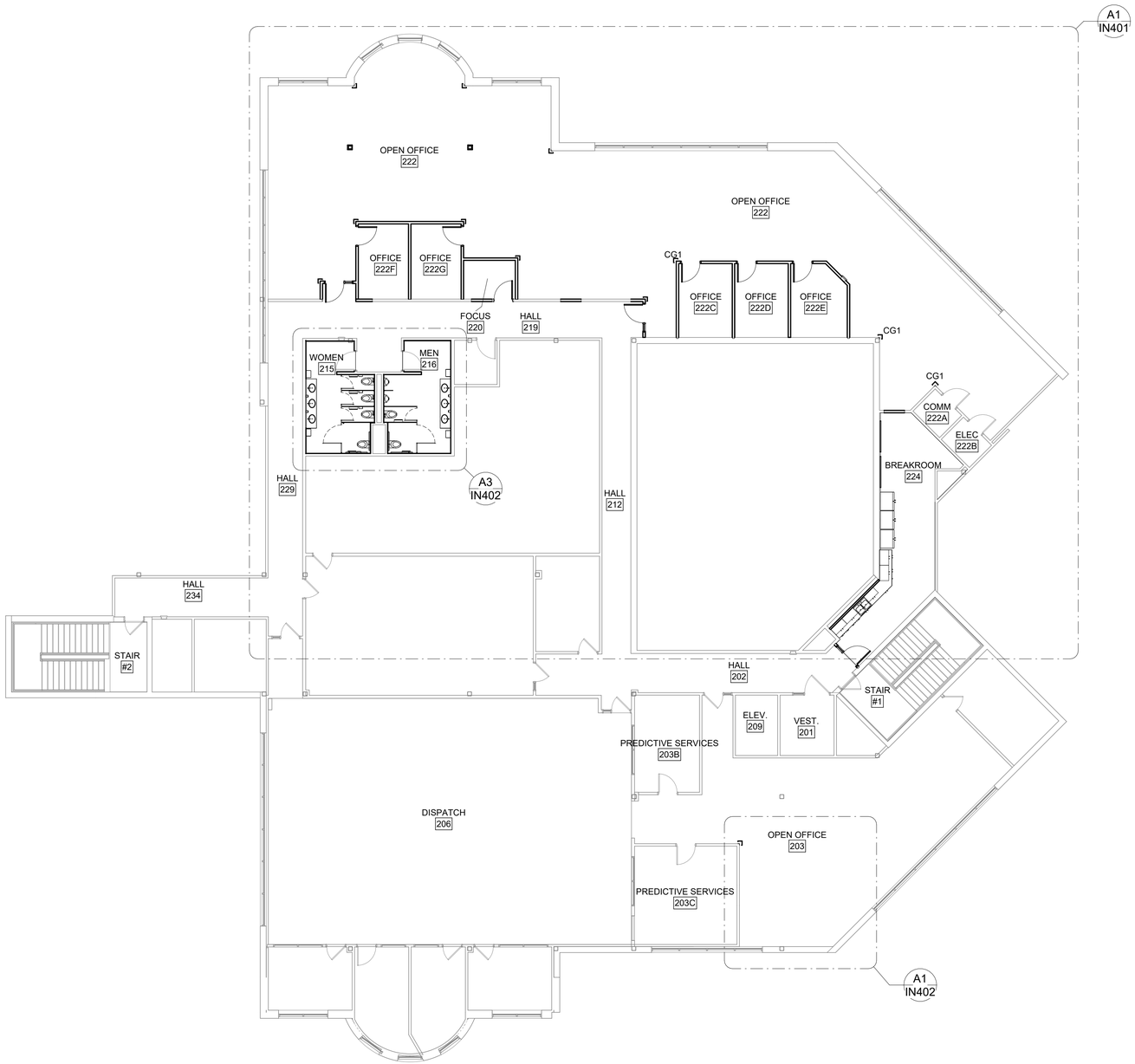

A1 SECOND FLOOR FINISH PLAN

GENERAL FINISH NOTES

A. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
B. ALL PRODUCTS ARE TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS, USING MANUFACTURER'S ADHESIVES, TOOLS, AND METHODS.
C. COORDINATE ALL OWNER FURNISHED EQUIPMENT, ACCESSORIES, AND FURNITURE WITH OWNER AND/OR OWNER 'S VENDOR.
D. ALL FLOOR TRANSITIONS ARE TO OCCUR DIRECTLY BENEATH DOORS, ALIGNED WITH CORNERS OR CENTERED IN OPENING UNLESS NOTED OTHERWISE.
E. ALL FLOOR TRANSITIONS ARE TO BE ABA COMPLIANT.
F. PREP FLOOR AS REQUIRED FOR NEW FLOOR FINISHES PRIOR TO INSTALLATION, INCLUDING FLOOR LEVELER.
G. PROVIDE STAINLESS STEEL TRANSITION STRIPS/REDUCERS AT ALL LOCATIONS WHERE CERAMIC TILE MEETS A DIFFERENT FLOOR MATERIAL. PROVIDE RUBBER TRANSITION STRIPS/REDUCERS AT ALL OTHER LOCATIONS BETWEEN DIFFERING FLOOR MATERIALS.
H. WALL TILE TO HAVE SCHLUTER TRIM AT EXPOSED EDGES. REFER TO ELEVATIONS FOR TILE PATTERNS.
I. REFER TO FINISH PLAN FOR LOCATION OF CORNER GUARDS. ALL CORNER GUARDS ARE TO BE INSTALLED WITH BOTTOM OF CORNERGUARD AT TOP OF WALL BASE.
J. ALL GYPSUM WALLS TO BE PAINTED 'P1' UNLESS OTHERWISE NOTED.
K. ALL NEW GYPSUM WALLS TO BE FINISHED AND TEXTURED TO MATCH EXISTING. SEE SPECS. REFERENCE FINISH PLAN FOR OTHER FINISHES.
L. EXISTING WALLS IN AREAS NOTED OUTSIDE OF SCOPE TO REMAIN AS-IS. EXISTING WALLS IN SCOPE TO BE FINISHED SIMILAR TO NEW WALLS.
M. ALL GYPSUM CEILINGS AND SOFFITS TO BE PAINTED 'PC1' UNLESS OTHERWISE NOTED ON REFLECTED CEILING PLAN.
N. ALL CEILINGS OPEN TO STRUCTURE (OTS) TO BE PAINTED 'PT1' UNLESS OTHERWISE NOTED ON REFLECTED CEILING PLAN. INCLUDE ALL EXPOSED STRUCTURAL AND MECHANICAL COMPONENTS, ELECTRICAL CONDUIT, ETC.
O. ALL HOLLOW METAL FRAMES TO BE PAINTED 'P2' UNLESS OTHERWISE NOTED.
P. ALL METAL ACCESS PANELS, COVER PLATES, VENTS, AND GRILLES TO BE PAINTED TO MATCH THE SURFACE IT IS LOCATED ON.
Q. ALL SOLID SURFACE COUNTERTOPS ARE TO BE 'SS1' AND HAVE EASED EDGES. ADJACENT SOLID SURFACE BACKSPLASHES TO MATCH.
R. ALL WINDOW TREATMENTS ARE TO BE FIELD MEASURED, INSTALLED WITH ALL COMPONENTS, AND INSIDE MOUNTED AND WITH VALANCES UNO. CONTRACTOR TO PROVIDE BLOCKING.

FINISH PLAN LEGEND

NAME 101 — ROOM NAME AND NUMBER
A8### # — INTERIOR ELEVATION CALLOUT AND DIRECTION OF ELEVATION VIEW
XX### — FINISH TAG
XX### — EXTENT OF ACCENT PAINT OR WALL FINISHES

FINISH TAGS DISPLAYED IN GROUPING ON FINISH PLAN REPRESENT MAJORITY ROOM FINISH SELECTIONS. ORDER OF GROUPING DEFINED IN EXAMPLE BELOW:

XX### — MAJORITY WALL FINISH
XX### — MAJORITY BASE FINISH
XX### — MAJORITY FLOOR FINISH

L # — LOCATION AND TYPE OF CORNER GUARDS

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NIFC 300-JWH SUITE 222/227 RENOVATIONS
NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: FINISH FLOOR OVERALL PLAN
Designed by: MORTENSON
Drawn by: MACKENZIE
Checked by: MORTENSON
Approved by: SJBD

Revisions:

#	Description	Date
0	100% - ISSUED FOR CONSTRUCTION	05/2026

LICENSED ARCHITECT AR 984755
5/8/26
Scott D. Roberts
STATE OF IDAHO

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

IN101

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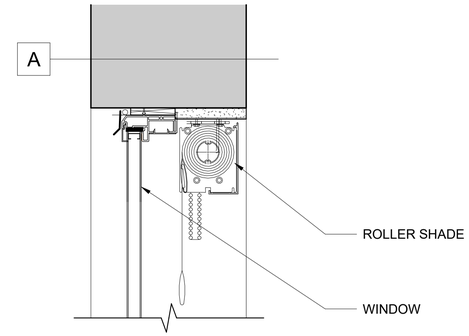
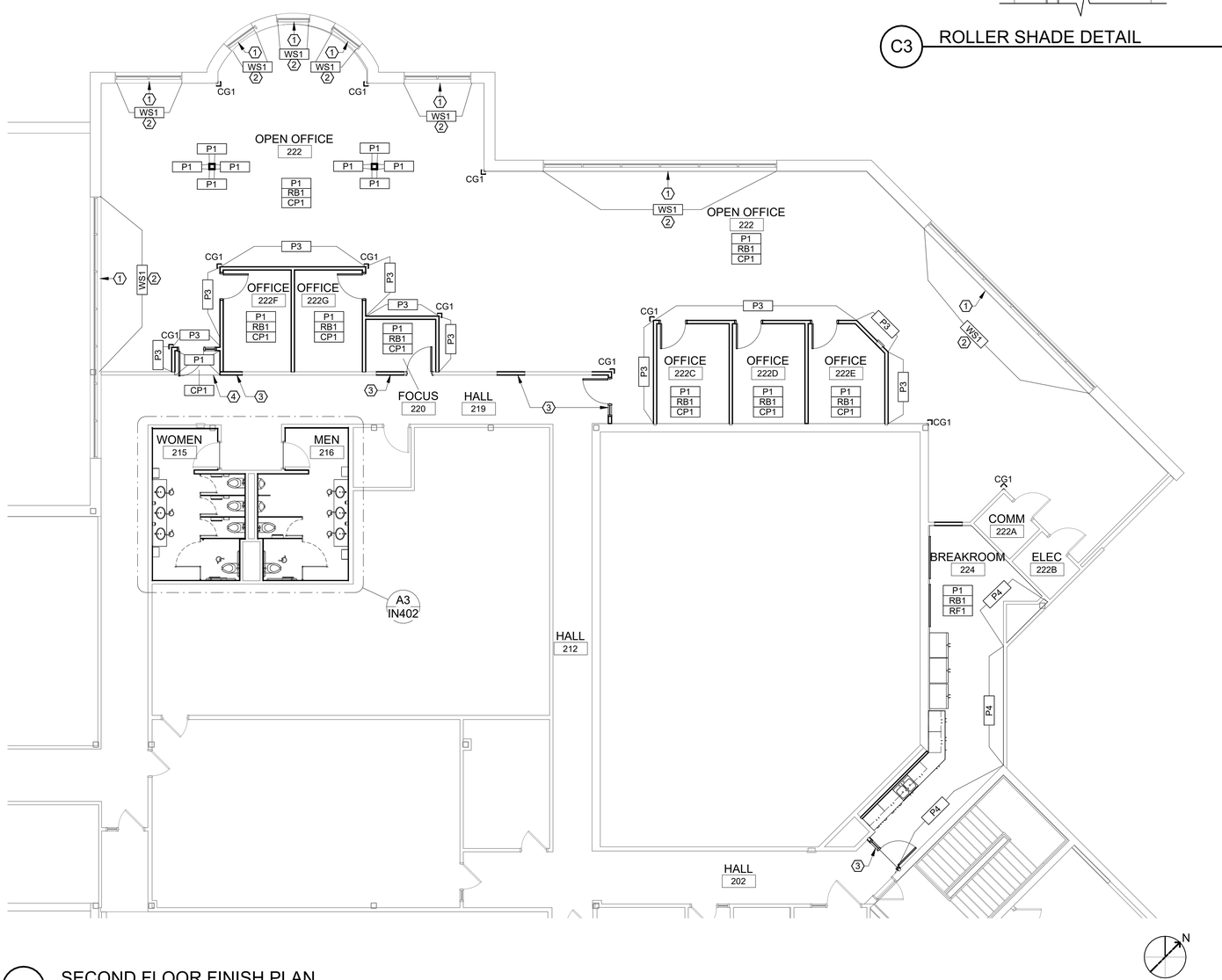


C3 ROLLER SHADE DETAIL



A1 SECOND FLOOR FINISH PLAN

GENERAL FINISH NOTES

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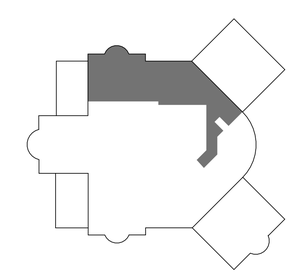
XX### — MAJORITY FLOOR FINISH

— LOCATION AND TYPE OF CORNER GUARDS

SHEET KEYNOTES

1 WINDOW SILLS TO BE SS2, SEE DETAIL A1/AE501
2 WINDOW SHADE, SEE DETAIL C3/IN401
3 FINISH NEW WALL WITH NEW PAINT AND WALL BASE TO MATCH EXISTING/ADJACENT.
4 INSTALL CARPET CP1 IN RECESSED DOOR AREA. FINISH WITH RUBBER TRANSITION TO EXISTING CARPET IN HALLWAY.

KEY PLAN



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U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NIFC 300-JWH SUITE 222/227 RENOVATIONS

NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: FINISH FLOOR PLAN

Designed by: MORTENSON
Drawn by: MACKENZIE
Checked by: MORTENSON
Approved by: SJBD

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5/8/26
Scott D. Roberts
STATE OF IDAHO

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

IN401

5/8/2026 11:29:03 AM 100% - ISSUED FOR CONSTRUCTION U:\tylermortenson\Documents_RevitLocalTemp\LBYDBLM25_TO29_arch24_tylermortenson.rvt

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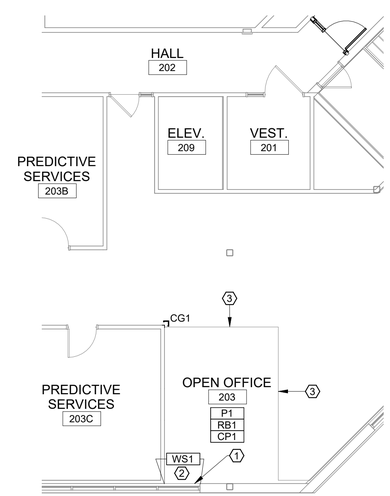
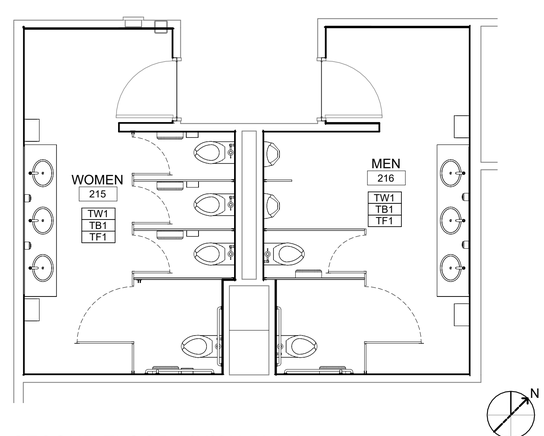


A1 ADD ALTERNATE FINISH PLAN

NOTE: ALL WORK IN THIS VIEW TO BE PART OF ADD ALTERNATE

0 4' 8' 16'



A3 SECOND FLOOR FINISH PLAN

0 2' 4' 8'

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GENERAL FINISH NOTES

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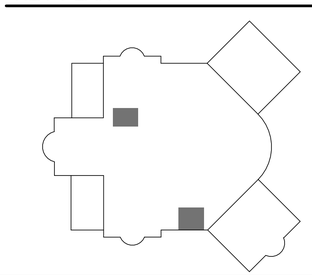
XX### — MAJORITY FLOOR FINISH

— LOCATION AND TYPE OF CORNER GUARDS

SHEET KEYNOTES

1 REPLACE WINDOW SILLS TO BE SS2, SEE DETAIL A1/AE501.
2 WINDOW SHADE, SEE DETAIL C3/IN401
3 INSTALL NEW CARPET TO ALIGN AND MATCH EXISTING ADJACENT CARPET

KEY PLAN



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NATIONAL SYSTEM OF PUBLIC LANDS
U.S. DEPARTMENT OF THE INTERIOR
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NIFC 300-JWH SUITE 222/227 RENOVATIONS

NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: FINISH FLOOR PLAN

Designed by: MORTENSON
Drawn by: MACKENZIE
Checked by: MORTENSON
Approved by: SJBD

Revisions:

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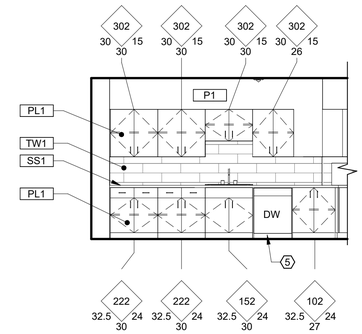
LICENSED ARCHITECT AR 984755
5/8/26
Scott D. Roberts
STATE OF IDAHO

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

IN402

MATERIALS LIST						
ITEM NO	PRODUCT TYPE	MANUFACTURER	DESCRIPTION	COLOR	SIZE	NOTES
BASE						
RB1	RESILIENT BASE	ROPPE	PINNACLE RUBBER COVED WALL BASE	#110 BROWN	4" H	
TB1	TILE BASE	DALTILE	CORE FUNDAMENTALS - PRIME	DYNAMIC BEIGE	6" X 24"	BRICK INSTALL. GROUT TO BE BRIGHT WHITE #381 AND SEALED POST INSTALL. 1/2 OFFSET INSTALL
CEILING						
AC1	ACOUSTIC CEILING	ARMSTRONG	FINE FISSURED SECOND LOOK	WHITE	24" X 48"	
PC1	PAINTED CEILING	SHERWIN WILLIAMS	LOW VOC EGGSHELL FINISH	PACER WHITE SW6098		
FLOOR						
CP1	CARPET	J+J FLOORING	KINETEX PUT A CORK IN IT	2197 DRUM	24" X 24"	MONOLITHIC INSTALLATION
RF1	RESILIENT FLOORING	KAHRS UPOFLOOR	QUARTZ TILE LINES COLLECTION	8224 HYPERSTHENE ASH	12" X 24"	ASHLAR INSTALL
TF1	TILE FLOOR	DALTILE	CORE FUNDAMENTALS - PRIME	DYNAMIC BEIGE	12" X 24"	MONOLITHIC INSTALL. GROUT TO BE CUSTOM ALABASTER #333. SEAL GROUT POST INSTALL. ASHLAR INSTALL
MILLWORK						
PL1	PLASTIC LAMINATE	FORMICA	CABINET FACES. MATTE FINISH	EARTHEN TWILL 08828-58		
SS1	SOLID SURFACE	CORIAN	SOLID SURFACE COUNTERTOP	PEBBLE LANE		
SS2	SOLID SURFACE	CORIAN	SOLID SURFACE WINDOW SILLS	BONE		
MISC.						
TP1	TOILET PARTITIONS					
WS1	WINDOW SHADES					
TRANSITIONS						
TR1	TRANSITION PROFILE	FUTURA	EDGETEK L SHAPE	ETCHED ALUMINUM		EDGE OF WALL TILE WHERE EDGE REMAINS UNFINISHED
WALL						
P1	PAINT	SHERWIN WILLIAMS	GENERAL WALL PAINT. ZERO LATEX. EGGSHELL FINISH	PACER WHITE SW6098		
P2	PAINT	SHERWIN WILLIAMS	TRIM PAINT. ZERO LATEX. SEMIGLOSS FINISH	DARK CLOVE SW9183		
P3	PAINT	SHERWIN WILLIAMS	ACCENT WALL PAINT. ZERO LATEX. EGGSHELL FINISH	AMAZING GRAY SW7044		
P4	PAINT	SHERWIN WILLIAMS	ACCENT WALL PAINT. ZERO LATEX. SEMIGLOSS FINISH	STARDEW SW9138		
TW1	TILE WALL	CROSSVILLE	SHADES 2.0 SPO	FROST . SHD41 . 10624SPO	6" X 24"	BRICK INSTALL. GROUT TO BE BRIGHT WHITE #381. 1/2 OFFSET INSTALL. GROUT TO BE SEALED POST INSTALL.
WALL PROTECTION						
CG1	CORNER GUARD	CS ACROVYN	VA SERIES	PAINT TO MATCH WALL INSTALLED ON		



C4 BREAKROOM 202 - LEFT

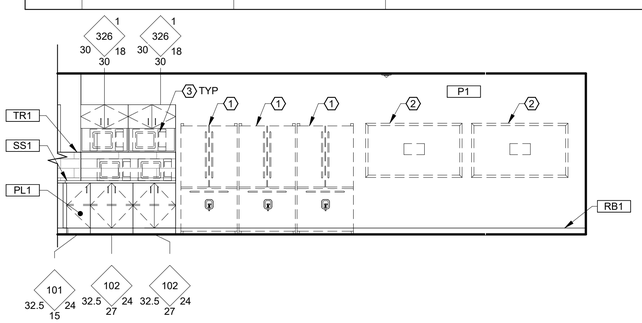
CASEWORK MODIFICATIONS

1. CABINET TO HAVE OPEN SHELF FOR MICROWAVE WITH 2-DOOR CABINET DOORS ABOVE.

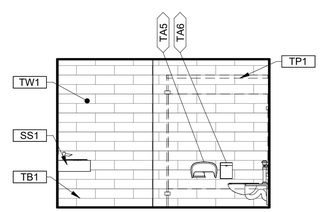
SHEET KEYNOTES

1 REFRIGERATOR TO BE PROVIDED AND INSTALLED BY GOVERNMENT.
2 MONITOR, MONITOR ARM, MOUNTING BRACKET TO BE PROVIDED AND INSTALLED BY GOVERNMENT. PROVIDE BLOCKING IN WALL.
3 MICROWAVE TO BE PROVIDED AND INSTALLED BY GOVERNMENT.
5 DISHWASHER TO BE PROVIDED AND INSTALLED BY GOVERNMENT.

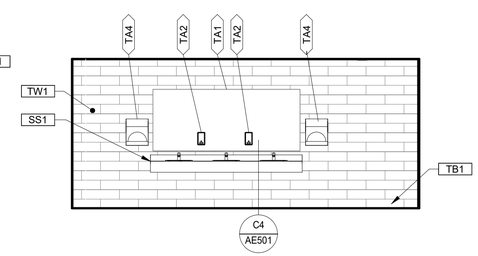
TOILET ACCESSORIES SCHEDULE		
EQ #	DESCRIPTION	SIZE
TA1	MIRROR	96" X 42"
TA2	AUTOMATIC SOAP DISPENSER	ES8
TA3	GRAB BAR	18", 36", 42"
TA4	AUTOMATIC PAPER TOWEL DISPENSER	TORK H71
TA5	TOILET PAPER DISPENSER	JUMBO
TA6	SANITARY NAPKIN DISPOSAL UNIT	



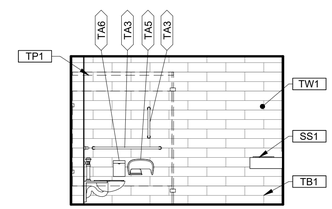
B1 BREAKROOM 202 - RIGHT



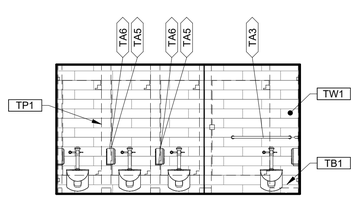
B2 WOMEN 215 - NORTH



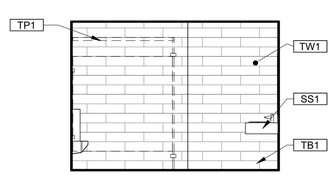
B3 WOMEN 215 - EAST



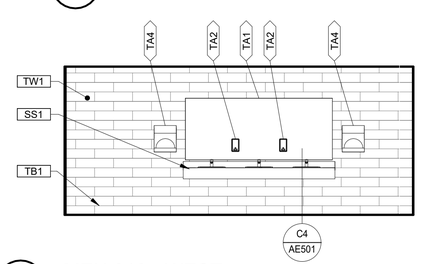
B4 WOMEN 215 - SOUTH



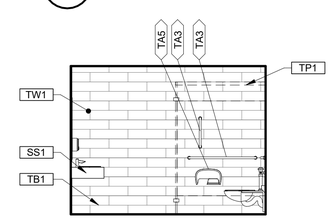
A1 WOMEN 215 - WEST



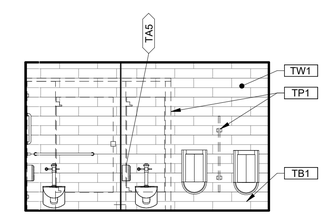
A2 MEN 216 - NORTH



A3 MEN 216 - WEST



A4 MEN 216 - SOUTH



A5 MEN 216 - EAST

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Sheet Title: INTERIOR ELEVATIONS AND MATERIALS LIST

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Scott D. Roberts
STATE OF IDAHO

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

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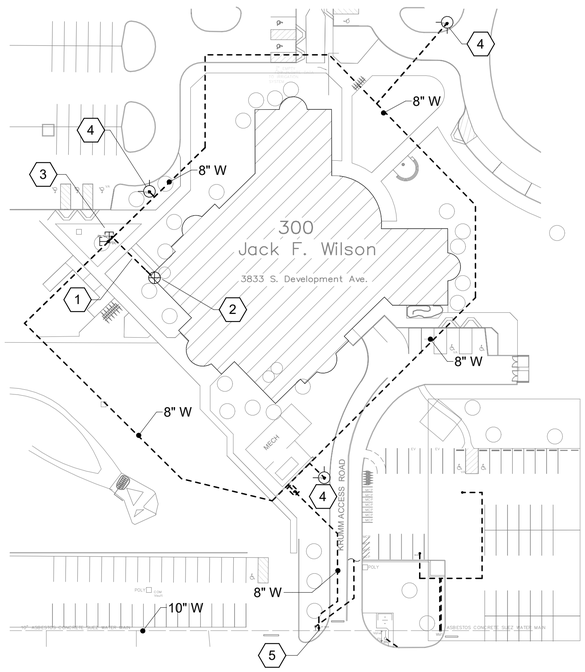


C1 FIRE PROTECTION SITE PLAN

0 30' 60' 120'

N

HYDRAULIC CALCULATIONS REQUIRED:

HYDRAULICALLY CALCULATE THE MOST DEMANDING LIGHT HAZARD ; 1500 SF AT .10 GPM/SF AND 100 GPM OUTSIDE HOSE ALLOWANCE.

NOTES:
1. CALCULATED DEMAND INCLUDING HOSE STREAM REQUIREMENTS SHALL FALL NO LESS THAN 10 PSI BELOW THE AVAILABLE WATER SUPPLY CURVE.
2. VELOCITIES SHALL NOT EXCEED 20 FT/SEC IN ANY PIPE.
3. NO EXTENDED COVERAGE SPRINKLERS WILL BE ALLOWED.
4. CONTACT EOR FOR PDF OF THE EXISTING BUILDING SHOP DRAWINGS.
5. PROVIDE ONLY NEW SPRINKLERS THROUGH AREAS OF REMODEL. DO NOT REUSE/RELOCATE SPRINKLERS FROM AREAS OF REMODEL . EXISTING SPRINKLERS ARE STANDARD COVERAGE K5.6 QUICK RESPONSE.

WATER SUPPLY INFORMATION			
TEST PRESSURE HYDRANT:	LOCATION: 2350 W ROBINSON RD.		
BY: VEOLIA		DATE: 11/07/2024	
STATIC PRESSURE: 50 PSI		RESIDUAL PRESSURE: 47 PSI	
PITOT PRESSURE: NA PSI	WITH 1,250 GPM FLOWING		

NOTE: NEW WATER FLOW TEST WILL BE REQUIRED FOR SHOP DRAWING SUBMITTALS.

IFC 2024 REQUIRED FIRE FLOW: 1000 GPM @ 20 PSI FOR 2 HOURS AVAILABLE FIRE FLOW 3500 GPM @ 20 PSI

SITE PLAN NOTES

1. (E) 6" FIRE SERVICE TO BUILDING.
2. (E) 3" FIRE SERVICE ENTRANCE AND RISER.
3. (E) POST INDICATOR VALVE AND REMOTE FIRE DEPARTMENT CONNECTION.
4. (E) FIRE HYDRANT.
5. POINT OF KNOWN WATER SUPPLY.

FIRE WATCH:

1. MAINTAIN ALL FIRE SPRINKLER SYSTEM IN OPERATION DURING THE ENTIRE PROJECT CONSTRUCTION DURATION.
2. A FIRE WATCH SHALL BE PROVIDED FOR FIRE SPRINKLER CONSTRUCTION ACTIVITY EXCEEDING 10 HOURS IN A WORK DAY.
3. A FIRE WATCH SHALL BE PROVIDED CONTINUOUSLY DURING BUILDING OCCUPIED AND UNOCCUPIED HOURS IF THE DURATION OF SHUTDOWN FOR CONSTRUCTION EXCEEDS 10 HOURS.
4. ALL SYSTEMS SHALL BE TURNED BACK ON AT THE END OF THE WORK DAY AND ALL AREAS SHALL HAVE SPRINKLER PROTECTION ACTIVE PER NFPA 25 UNTIL THE NEXT WORK DAY PROCEEDS OR A FIRE WATCH SHALL BE PROVIDED.

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
	PENDENT SPRINKLER, PLAN - ELEVATION
	UPRIGHT SPRINKLER, PLAN - ELEVATION
	SIDEWALL SPRINKLER, PLAN - ELEVATION
	BACK TO BACK ATTIC SPRINKLER, PLAN
D	FIRE SPRINKLER DRAIN PIPE
	CONNECT TO EXISTING
	NEW PIPING
	EXISTING PIPING
	PIPING TO BE REMOVED
TS	TAMPER SWITCH
FS	FLOW SWITCH
	FIRE HYDRANT
	FIRE DEPARTMENT CONNECTION, SIAMESE
F	HORN/STROBE ASSEMBLY
	FIRE SPRINKLER WET SYSTEM RISER

FIRE PROTECTION ABBREVIATIONS

FL	FLANGED
GR	GROOVED
GAL	GALVANIZED
SF	SQUARE FEET
FDC	FIRE DEPARTMENT CONNECTION
AUX	AUXILIARY
(E)	EXISTING
SCH	SCHEDULE
N.C.	NORMALLY CLOSED
NA	NOT AVAILABLE

GENERAL NOTES

A. DESIGN AND INSTALLATION SHALL CONFORM TO NFPA 13, 2025 EDITION, IFC 2024, LOCAL FIRE AND BUILDING DEPARTMENTS AND GOVERNMENT.

B. THE SPRINKLER SYSTEM SHOWN IS CONCEPTUAL ONLY. THE CONTRACTOR SHALL PROVIDE A COMPLETE SPRINKLER SYSTEM SHOWING ALL REQUIRED PIPING, OFFSETS, SPRINKLERS, RISERS AND DROPS.

C. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE FIRE PROTECTION SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND COMPLYING WITH THE STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION, AND ALL STATE AND LOCAL REGULATIONS.

D. APPROVAL OF THE COMPLETE SYSTEM SHALL BE OBTAINED FROM THE AUTHORITIES HAVING JURISDICTION, AND A COPY OF SAME SHALL BE DELIVERED TO THE GOVERNMENT.

E. RESTORE ALL DEVICES, FINISHES, ETC. DAMAGED OR ALTERED DURING CONSTRUCTION TO AN ACCEPTABLE CONDITION AS DETERMINED BY THE GOVERNMENT.

F. CONTRACTOR SHALL SCHEDULE ALL SHUTDOWNS THAT AFFECT UTILITIES AND PORTIONS OF THE BUILDING THAT MUST REMAIN IN OPERATION WITH THE GOVERNMENT.

G. PROVIDE AND INSTALL SPRINKLERS OF THE PROPER TEMPERATURE RATING AND TYPE PER NFPA 13.

H. COORDINATE SPRINKLER PIPING AND HEAD LOCATIONS WITH DUCTWORK, PIPING, LIGHTING FIXTURES, DIFFUSERS, ETC. AS REQUIRED.

I. ISOLATE, DRAIN AND REFILL EXISTING PIPING SYSTEM AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW WORK.

J. HANGER INSTALLATION AND SPACING SHALL BE IN ACCORDANCE WITH NFPA 13.

K. COORDINATE SPRINKLER HEAD LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING, AND OTHER CEILING ITEMS AND MAKE MODIFICATIONS TO SUIT.

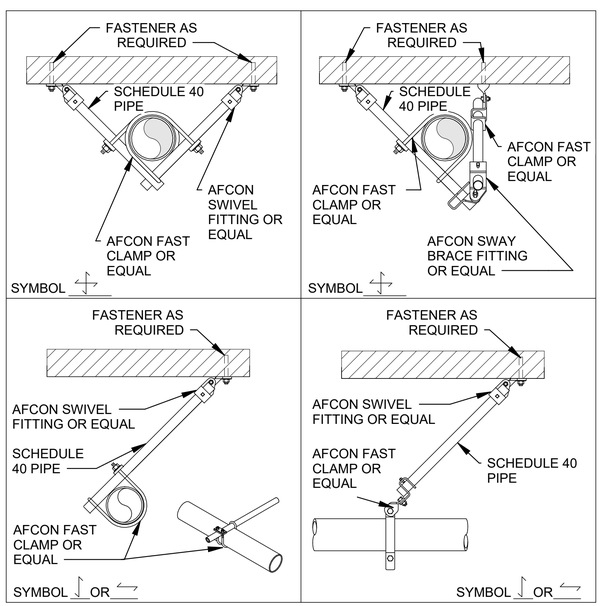
L. SPRINKLER LAYOUT IN AREAS WITH FINISHED LAY-IN CEILINGS SHALL BE CENTER OF TILE AND LAYOUT IN AREAS WITH HARD LID CEILING SHALL BE SYMMETRIC WITHIN ROOM.

M. THIS LOCATION IS A SEISMIC DESIGN CATEGORY "C". CALCULATE THE SPRINKLER SYSTEM LOAD BASED ON A HORIZONTAL ACCELERATION OF .5G (F=.5W).

N. ALL WET SYSTEM PIPING 2" AND SMALLER SHALL BE SCHEDULE 40. PIPING 2 1/2" AND LARGER SHALL BE SCHEDULE 10 PIPE WITH GROOVED FITTINGS.

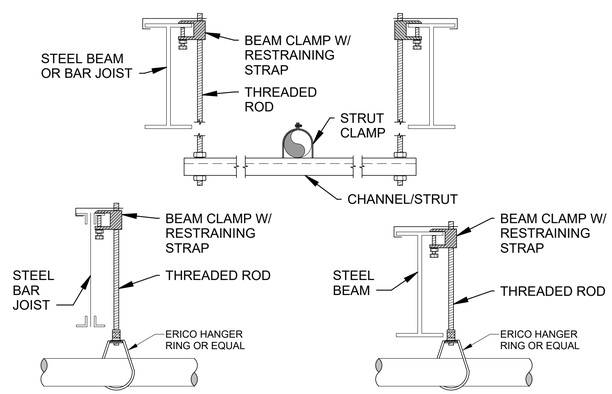
O. SPRINKLER CONTRACTOR TO COORDINATE WITH OTHER TRADES TO PREVENT CONFLICT WITH OTHER BUILDING SYSTEMS. ANY INSTALLATION WITHOUT PRIOR COORDINATION IS SUBJECT TO REMOVAL AND REINSTALLATION AT THE INSTALLING CONTRACTOR'S EXPENSE.

P. CONTRACTOR SHALL COVER AND PROTECT FIRE SPRINKLER HEADS FOR PAINTING OF PIPE. PREP PIPE FOR PAINTING.



NOTES:
1. ALL BRACE PIPING SHALL BE SCHEDULE 40.
2. FASTENERS SHALL BE LISTED FOR SEISMIC INSTALATION.

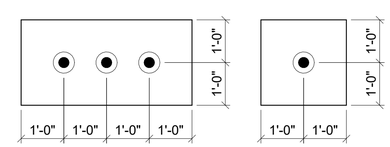
A1 SWAY BRACING DETAIL



NOTES:
1. UNSUPPORTED LENGTHS BETWEEN THE END SPRINKLER ON A BRANCH AND THE LAST HANGER SHALL NOT BE GREATER THAN 12".
2. THE LENGTH OF AN UNSUPPORTED ARM OVER MUST NOT BE GREATER THAN 12".
3. ALL HANGERS LOCATED WITHIN 12" OF THE LAST SPRINKLER ON A BRANCH LINE OR ARMOVER MUST BE FITTED WITH A SURGE SUPPRESSOR OR EQUIVALENT.

MAXIMUM PIPE/TUBING SUPPORT SPACING, FEET										
NOM. SIZE	THRU 3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"	8"
STEEL	N.A.	12	12	15	15	15	15	15	15	15

A2 FIRE SPRINKLER PIPE HANGER DETAILS



ALL SPRINKLERS SHALL BE CENTERED WITH 1" +/- OF CENTER POINTS OF
CEILING TILES. (QUARTER POINTS ARE ACCEPTABLE AS SHOWN ON PLANS)

A4 SPRINKLER HEAD IN CENTER PLACEMENT

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NIFC 300-JWH SUITE 222/227 RENOVATIONS

NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: FIRE PROTECTION SITE PLAN, NOTES, AND LEGEND

Designed by: KOPP
Drawn by: POWELL
Checked by: KOPP
Approved by: BINGHAM

Revisions:

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1	100% -ISSUED FOR CONSTRUCTION	05/2026

PROFESSIONAL ENGINEER LICENSED P-21646 STATE OF IDAHO STEVEN E. BINGHAM

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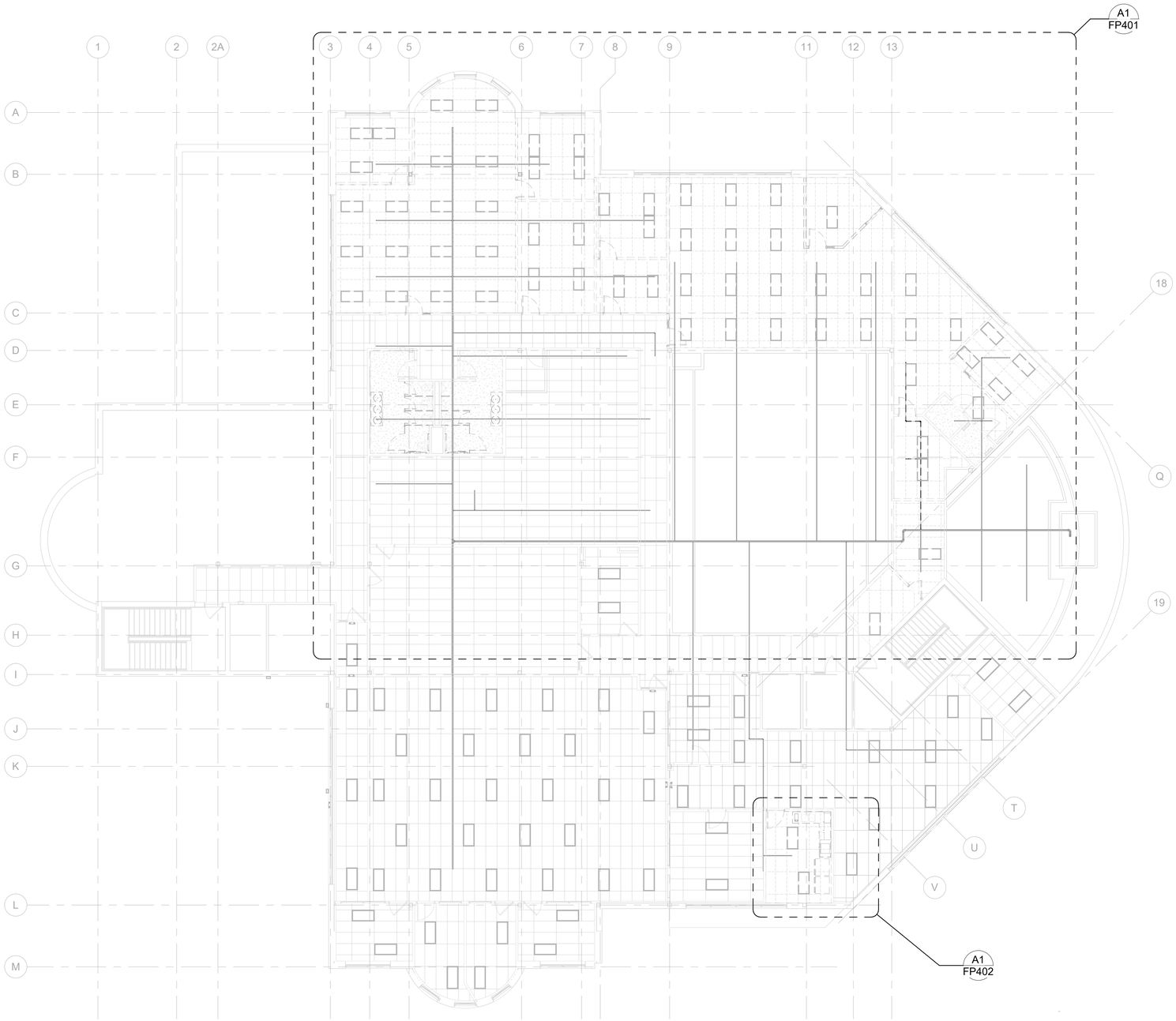

A1 FIRE PROTECTION DEMOLITION SECOND FLOOR PLAN - OVERALL

N

0 4' 8' 16' 24'

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United States Department of the Interior Bureau of Land Management
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Sheet Title:
FIRE PROTECTION OVERALL DEMOLITION PLAN

Designed by: KOPP
Drawn by: LISTOE
Checked by: KOPP
Approved by: BINGHAM

Revisions:

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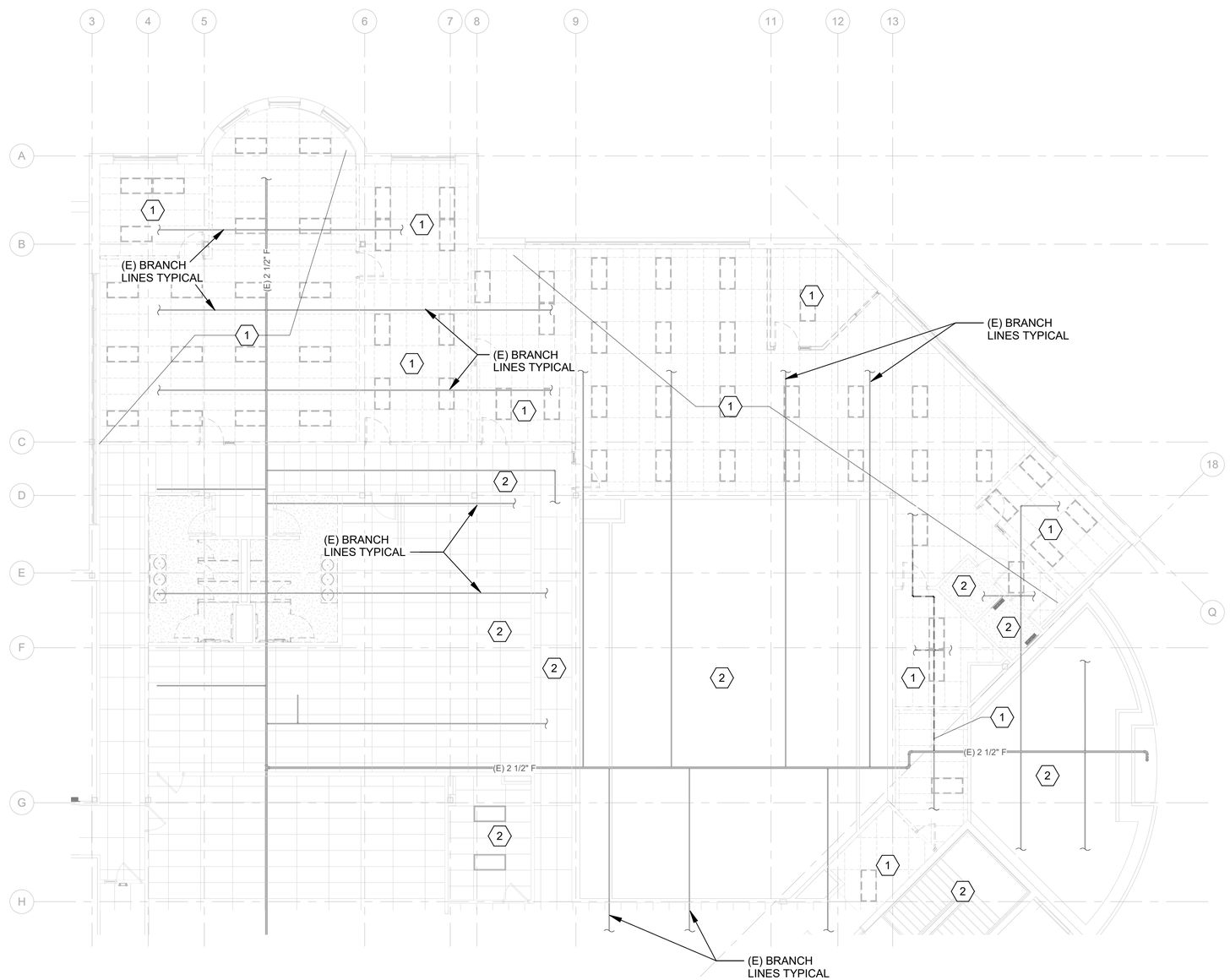

A1 FIRE PROTECTION DEMOLITION SECOND FLOOR PLAN

0 4' 8' 16'

N

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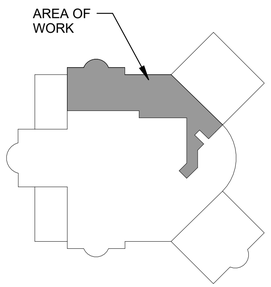
DEMOLITION KEYNOTES

1. REMOVE SPRINKLERS, DROPS AND ARMOVERS WITHIN THIS ROOM/AREA AS REQUIRED FOR REMODEL WORK AND COORDINATE NEW SPRINKLER LOCATION WITH NEW LIGHT FIXTURES, DIFFUSERS ETC.
2. EXISTING PIPING AND SPRINKLERS TO REMAIN.

KEYPLAN



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Sheet Title:
FIRE PROTECTION DEMOLITION PLAN

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Drawn by: POWELL
Checked by: KOPP
Approved by: BINGHAM

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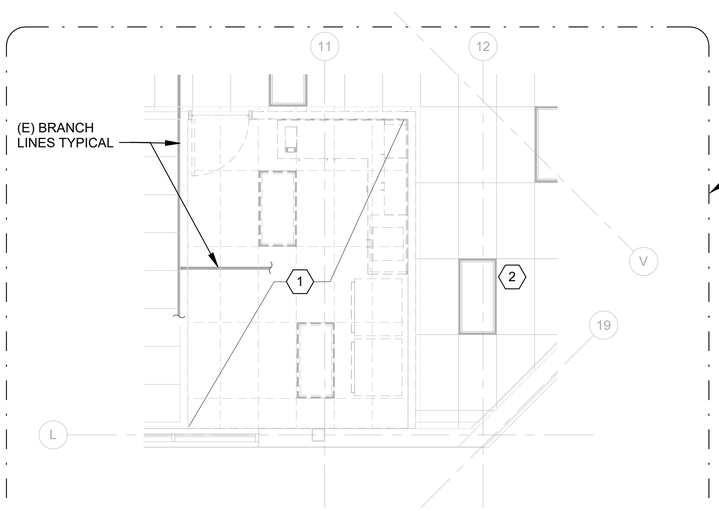

A1 FIRE PROTECTION DEMOLITION SECOND FLOOR PLAN

0 2' 4' 8'

N

ADD ALTERNATE

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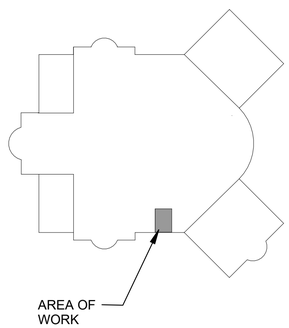

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Sheet Title:
FIRE PROTECTION
DEMOLITION PLAN

Designed by: KOPP
Drawn by: POWELL
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P-21646
STATE OF IDAHO
STEVEN E. BINGHAM

BLM Project # 140L062F0116

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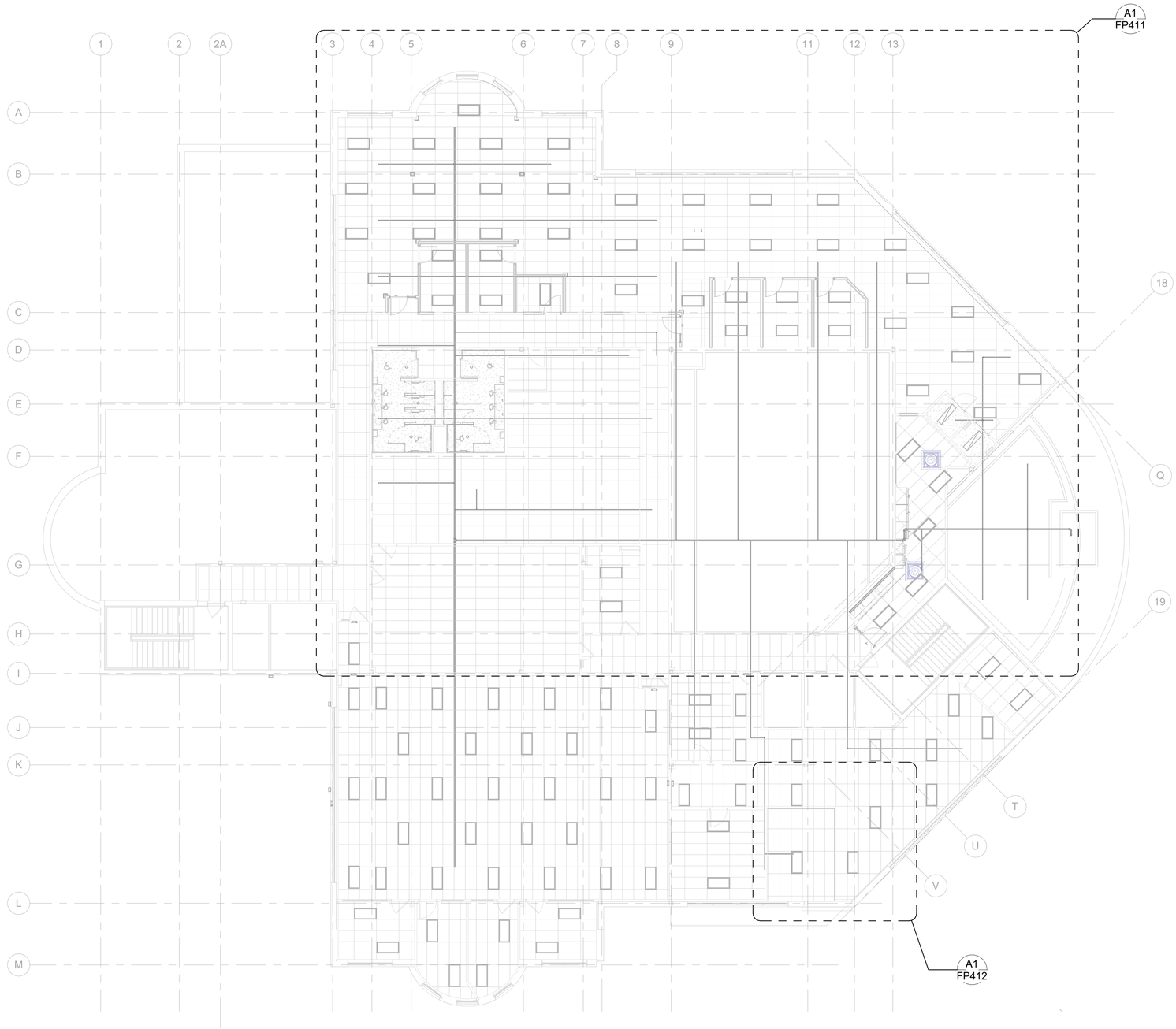

A1 FIRE PROTECTION SECOND FLOOR PLAN - OVERALL

N

0 4' 8' 16' 24'

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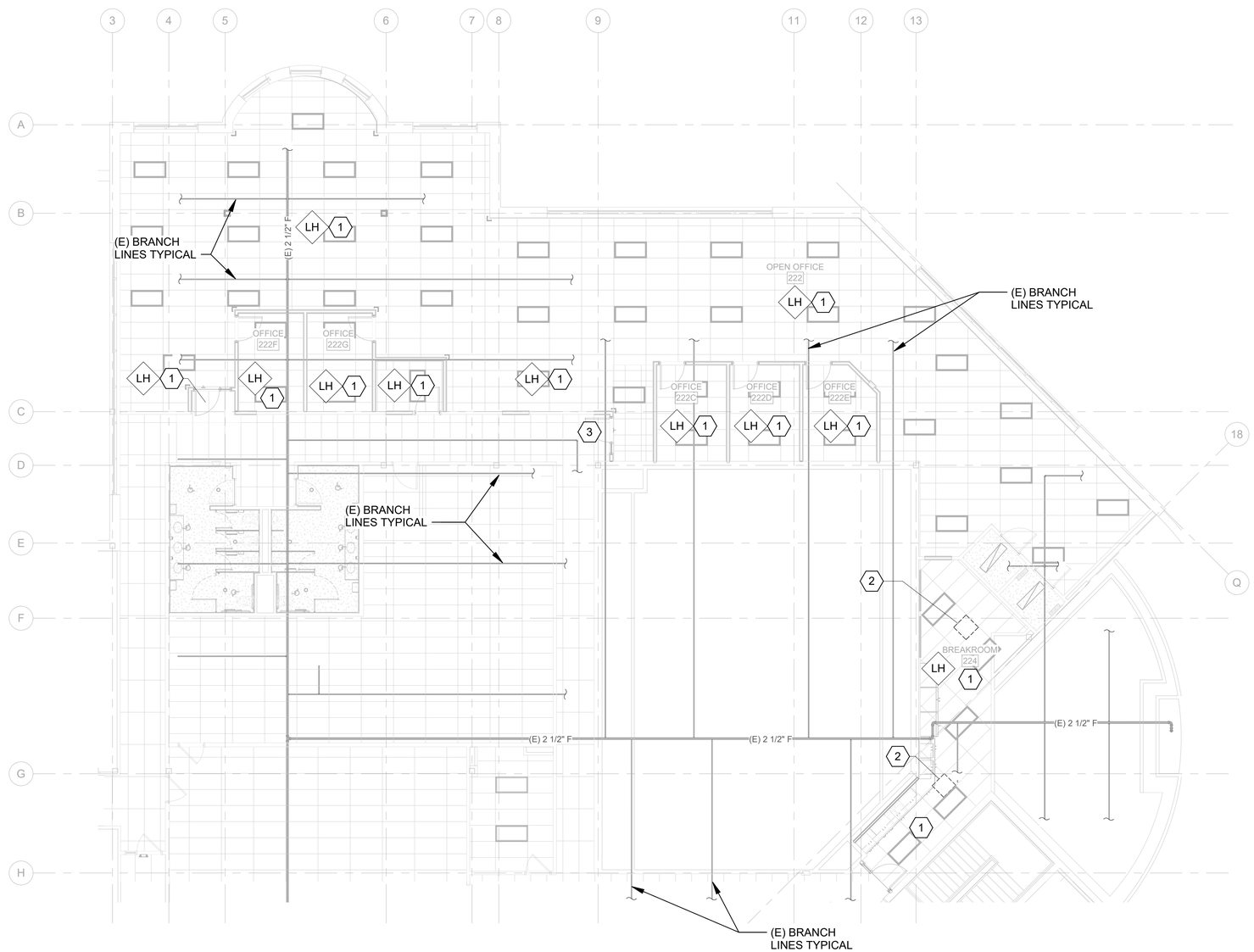

A1 FIRE PROTECTION SECOND FLOOR PLAN

N

0 4' 8' 16'

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GENERAL NOTES

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B. SHOP DRAWINGS MUST BE FIELD VERIFIED AND REVISED BY THE CONTRACTOR PRIOR TO SUBMITTAL FOR REVIEW BY ENGINEER.
C. FIELD INVESTIGATION BEFORE BIDDING IS REQUIRED. BID SHALL BE COMPLETE AND ACCOUNT FOR ALL REQUIRED PIPE, ROUTING, SPRINKLERS, ETC.
D. SPRINKLER CONTRACTOR TO COORDINATE WITH OTHER TRADES TO PREVENT CONFLICT WITH OTHER BUILDING SYSTEMS. ANY INSTALLATION WITHOUT PRIOR COORDINATION IS SUBJECT TO REMOVAL AND REINSTALLATION AT THE INSTALLING CONTRACTOR'S EXPENSE, SHOP DRAWINGS SHALL SHOW LOCATION OF LIGHTS,DIFFUSERS, AND ALL OTHER CEILING ELEMENTS FOR SPRINKLER COORDINATION.

KEYNOTES

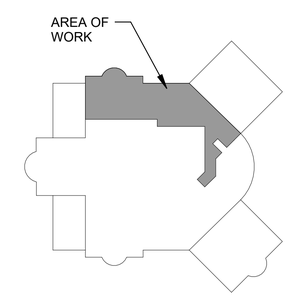
1. PROVIDE NEW SPRINKLERS AND PIPING WITHIN THIS ROOM IN ACCORDANCE WITH NFPA 13 AND THE HAZARD CLASSIFICATION SHOWN.
2. COORDINATE NEW SPRINKLERS AND BRANCH LINES WITH NEW SOLATUBES.
3. NEW CEILING GRID AND TILE IN THIS AREA. COORDINATE SPRINKLER COVERAGE AND PROVIDE ADDITIONAL SPRINKLER AND PIPING AS REQUIRED.

HAZARD CLASSIFICATION SCHEDULE

SYMBOL	HAZARD	DES. DENSITY-GPM/SF
LH	LIGHT	0.10

NOTE:HAZARD SYMBOLS AT ROOM NAMES INDICATE NEW SPRINKLER AND PIPE AS REQUIRED FOR THESE AREAS.

KEYPLAN



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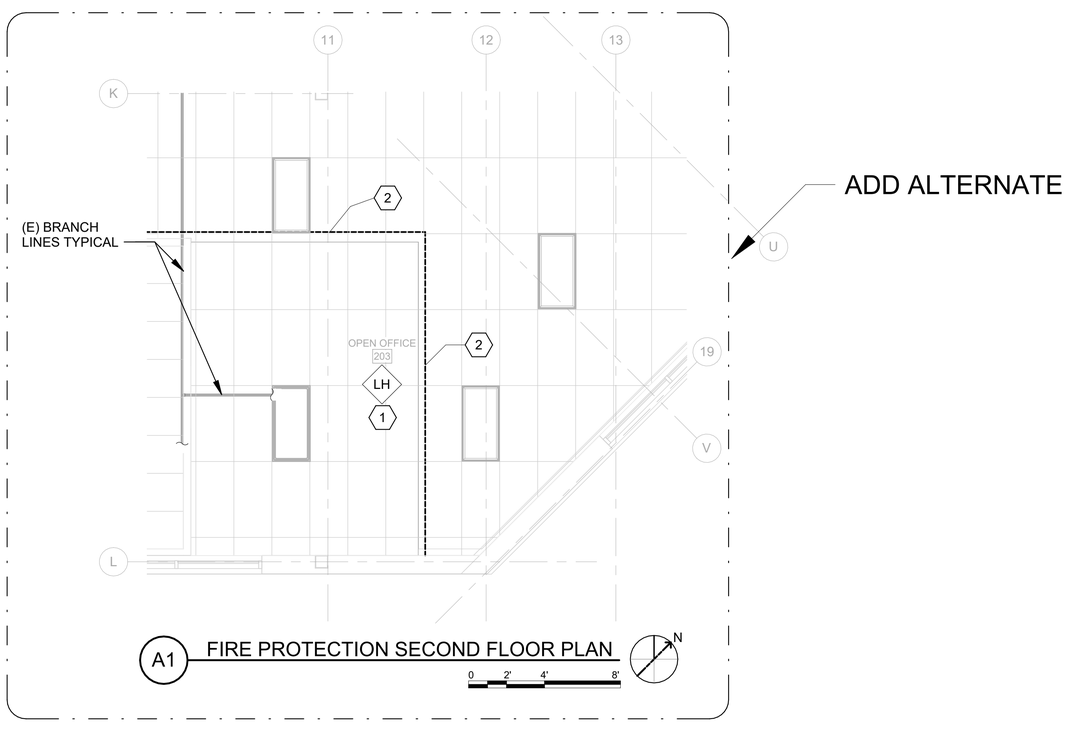

A1 FIRE PROTECTION SECOND FLOOR PLAN

ADD ALTERNATE

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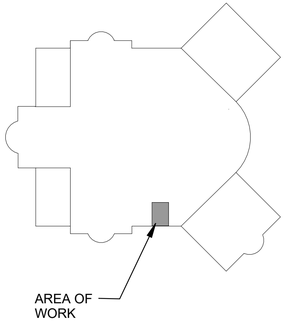

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SYSTEM INPUT	SYSTEM OUTPUT: FACP ANNUNCIATION						NOTIFICATION						CONTROL			
	ZONE ALARM SIGNAL INDICATION	AUDIBLE ALARM SIGNAL ACTIVATION	ZONE SUPERVISORY SIGNAL INDICATION	AUDIBLE SUPERVISORY SIGNAL ACTIVATION	ZONE TROUBLE SIGNAL INDICATION	AUDIBLE TROUBLE SIGNAL ACTIVATION	ACTIVATE ALL AUDIBLE SIGNAL ACTIVATION	ACTIVATE ALL VISIBLE DEVICES	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	ACTIVATE EXTERIOR NOTIFICATION DEVICE AT FDC	CHANGE STATE OF ASSOCIATED FAN UNIT CONTROL RELAY	ACTIVATE PRIMARY ELEVATOR RECALL RELAY	ACTIVATE ALTERNATE ELEVATOR RECALL RELAY	ACTIVATE ELEVATOR SHUNT-TRIP CONTROL RELAY	ACTIVATE ELEVATOR CAB ALARM LIGHT
MANUAL PULL STATION	X	X					X	X	X					X			
SMOKE DETECTOR - GENERAL (SYSTEM DETECTOR)	X	X					X	X	X					X			
SMOKE DETECTOR - 1ST FLOOR ELEVATOR LOBBY	X	X					X	X	X						X		
SMOKE DETECTOR - OTHER THAN 1ST FLR ELEV. LOBBY	X	X					X	X	X					X			X
SMOKE DETECTOR - ELEVATOR HOISTWAY	X	X					X	X	X					X			X
SMOKE DETECTOR - ELEVATOR CONTROLLER SPACE	X	X					X	X	X					X			
HEAT DETECTOR - GENERAL	X	X					X	X	X					X			
HEAT DETECTOR - ELEVATOR HOISTWAY *	X	X					X	X	X					X		X	X
HEAT DETECTOR - ELEVATOR CONTROLLER SPACE **	X	X					X	X	X					X	X	X	X
ELEVATOR SHUNT-TRIP BREAKER POWER FAIL			X	X						X							
SYSTEM DUCT SMOKE DETECTOR			X	X						X			X				
FIRE SPRINKLER VALVE SUPERVISORY TAMPER SWITCH*			X	X						X							
FIRE SPRINKLER FLOW DETECTOR SWITCH*	X	X					X	X	X			X					
NOTIFICATION APPLIANCE CIRCUIT FAULT					X	X											
INITIATING DEVICE CIRCUIT FAULT					X	X											
SIGNALING LINE CIRCUIT FAULT					X	X											
FACP AC POWER FAIL					X	X											
FACP BATTERY CHARGER FAIL					X	X											
FACP COMMUNICATION FAIL					X	X											
ELEVATOR SUMP PUMP MONITOR MODULE***			X	X						X							

* COORDINATE REQUIREMENTS WITH FIRE SPRINKLER CONTRACTOR
** COORDINATE TEMPERATURE RATINGS/SETTINGS WITH FIRE SPRINKLER CONTRACTOR
*** COORDINATE REQUIREMENTS WITH MECHANICAL/PLUMBING CONTRACTOR

NOTE: OPERATIONAL FUNCTIONS ARE ASSUMED EXISTING. FIRE ALARM CONTRACTOR SHALL FIELD VERIFY EXISTING PROGRAMMING AND MAKE MODIFICATIONS AS REQUIRED TO FACILITATE TENANT IMPROVEMENTS.

B1 FIRE ALARM OPERATIONAL MATRIX

FIRE ALARM LEGEND

SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS

SYMBOL	DESCRIPTION
F #cd	VISUAL NOTIFICATION DEVICE (# INDICATES CANDELA RATING)
F #cd	COMBINATION AUDIO & VISUAL NOTIFICATION DEVICE (# INDICATES CANDELA RATING)
F #cd	VISUAL NOTIFICATION DEVICE (# INDICATES CANDELA RATING); CEILING MOUNTED
F #cd	COMBINATION AUDIO & VISUAL NOTIFICATION DEVICE (# INDICATES CANDELA RATING); CEILING MOUNTED

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
	EXISTING DEVICE TO REMAIN
	DEVICE TO BE REMOVED
#cd	NEW DEVICE

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GENERAL NOTES - FIRE ALARM

A. COMPLY WITH LATEST ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL FIRE CODE (IFC), FIRE ALARM AND SIGNALING CODE (NFPA 72) AND NATIONAL ELECTRICAL CODE (NFPA 70) INCLUDING ANY LOCAL AMENDMENTS. ALL REFERENCES TO CODES AND STANDARDS SHALL BE AS NOTED IN THE FIRE ALARM CODE SUMMARY.
B. ALL FIRE ALARM CIRCUITS WITHIN ACCESSIBLE CEILING SPACE SHALL BE FREE-RUN IN A DEDICATED J-HOOK SYSTEM PROPERLY SUPPORTED IN ACCORDANCE WITH NFPA 70. FIRE ALARM CIRCUITS LOCATED WITHIN INACCESSIBLE CONCEALED SPACES (WALLS AND GYPSUM CEILINGS) SHALL BE INSTALLED IN EMT (3/4" MIN.) AND STUBBED TO THE NEAREST ACCESSIBLE SPACE. ALL FIRE ALARM CABLES IN FINISHED SPACES SHALL BE CONCEALED. FIRE ALARM CABLES IN UNFINISHED SPACES SUCH AS MECHANICAL/ELECTRICAL SPACES SHALL BE ALLOWED TO BE EXPOSED. ALL EXPOSED CABLES BELOW 8'-0" SHALL BE IN EMT AND PAINTED WITH A RED ENAMEL PAINT.
C. ALL FIRE ALARM CIRCUIT TERMINATIONS SHALL UTILIZE SCREW-TERMINALS. WIRE NUTS SHALL NOT BE ALLOWED IN J-BOXES.
D. ALL FIRE ALARM CIRCUITS WITHIN J-BOXES SHALL INCLUDE ADEQUATE SERVICE LOOPS.
E. STANDBY BATTERY CALCULATIONS SHALL BE PROVIDED FOR EACH INDIVIDUAL SYSTEM POWER SUPPLY.
F. VOLTAGE DROP CALCULATIONS SHALL BE PROVIDED FOR EACH STANDARD NOTIFICATION APPLIANCE CIRCUIT.
G. dB-LOSS CALCULATIONS SHALL BE PROVIDED FOR EACH AUDIO CIRCUIT.
H. ALL FIRE ALARM DEVICES SHALL BE MOUNTED TO A STEEL BACKBOX OR ELECTRICAL BOX. SURFACE MOUNT LOCATIONS SHALL INCLUDE A FACTORY MATCHED BOX SPECIFIC TO THE DEVICE.
I. REMOTE POWER SUPPLIES (NAC PANELS) SHALL BE PROVIDED IN SUFFICIENT QUANTITIES AND SHALL BE DETERMINED BY THE CONTRACTOR'S FINAL SHOP DRAWING DESIGN. PANEL LOCATIONS NOTED ON THESE DRAWINGS MERELY INDICATE ACCEPTABLE LOCATIONS.
J. CONTRACTOR SHALL COORDINATE WITH OWNER UPON SUBSTANTIAL COMPLETION TO PROVIDE CONNECTION TO REMOTE SUPERVISING STATION AS APPROVED BY THE OWNER AND AHJ.
K. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT AND LOCAL AHJ BEFORE PROGRAMMING FINAL DEVICE DESCRIPTIONS IN SYSTEM MEMORY. OBTAIN APPROVAL FROM BOTH PRIOR TO FINAL COMPLETION.
L. NEW FIRE ALARM DEVICES SHALL MATCH EXISTING DEVICE MAKE/MANUFACTURER AS CLOSELY AS POSSIBLE.
M. REFER TO ELECTRICAL SPECIFICATIONS FOR FIRE ALARM EQUIPMENT AND INSTALLATION REQUIREMENTS.

FIRE ALARM CODE SUMMARY

1. GROUP B OCCUPANCY
   - MULTI-STORY BUILDING - 2 STORIES ABOVE GROUND
   - NO GAS-FIRED EQUIPMENT CONTAINED WITHIN BUILDING ENVELOPE. ROOF-TOP GAS-FIRED EQUIPMENT EXHAUSTS DIRECTLY TO ATMOSPHERE.
2. CONSTRUCTION:
   - TYPE IIB (TABLE 601 OF THE IBC)
3. REFERENCED CODES (INCLUDES ALL LOCAL ADOPTED AMENDMENTS):
   - INTERNATIONAL BUILDING CODE (IBC) 2024 EDITION
   - INTERNATIONAL FIRE CODE (IFC) 2024 EDITION
   - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS - (NFPA 13) 2022 EDITION
   - NATIONAL ELECTRICAL CODE (NFPA 70) 2023 EDITION
   - NATIONAL FIRE ALARM AND SIGNALING CODE (NFPA 72) 2022 EDITION
   - INTERNATIONAL MECHANICAL CODE (IMC) 2024 EDITION
4. SYSTEM SCOPE:
   - STANDARD AUDIBLE/VISIBLE NOTIFICATION THROUGHOUT ALL COMMON AREAS (CORRIDORS, LOBBIES AND PARKING)
   - MONITORING OF AUTOMATIC SPRINKLER SYSTEM AND DEDICATED FIRE PUMP/CONTROLLER
   - MODIFICATION OF EXISTING FIRE ALARM SYSTEM

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Sheet Title: FIRE ALARM AND MASS NOTIFICATION LEGEND

Designed by: BINGHAM
Drawn by: POWELL
Checked by: BINGHAM
Approved by: BINGHAM

Revisions:

#	Description	Date
1	100% - ISSUED FOR CONSTRUCTION	05/2026

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BLM Project # 140L062F0116
Project # 070117.029
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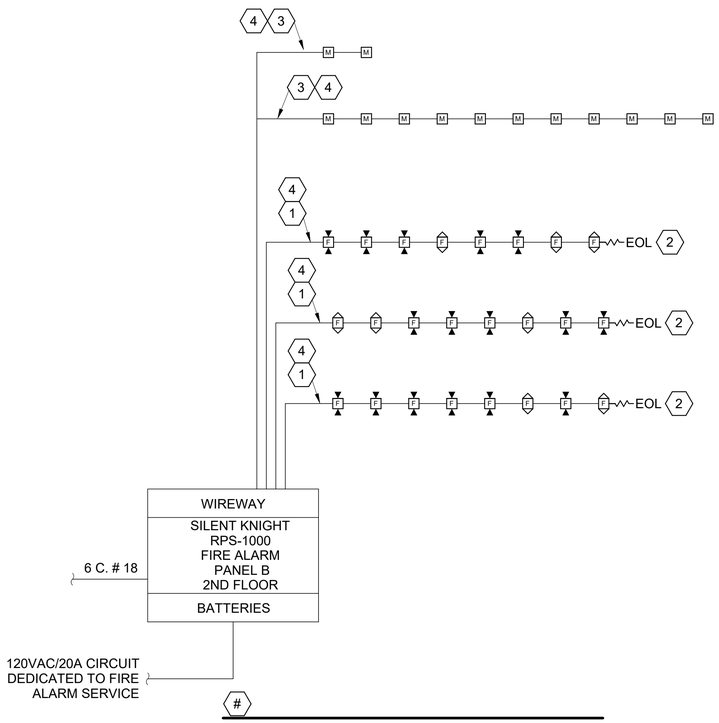
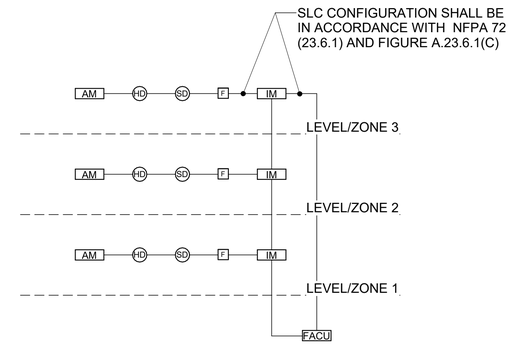


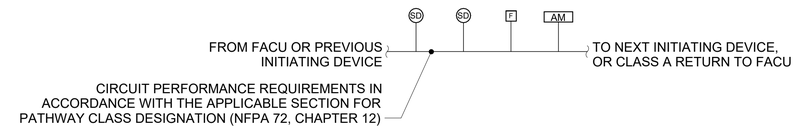
#

1. TYPICAL NOTIFICATION APPLIANCE CIRCUIT (NAC).
2. TYPICAL END OF LINE DEVICE (EOL) CLASS 'B' CIRCUIT.
3. TYPICAL 24VDC DOOR HOLDER CIRCUIT.
4. EXISTING BASED UPON RECORD DOCUMENTS PROVIDED BY GOVERNMENT; CONTRACTOR TO FIELD VERIFY.

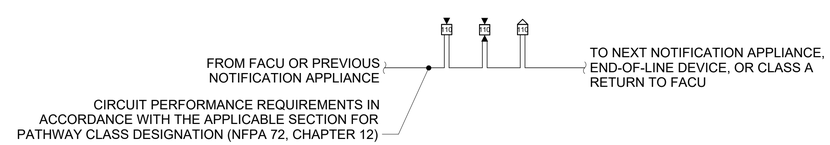
B1 EXISTING FIRE ALARM RISER DIAGRAM RPS PANEL B SECOND FLOOR



C3 FIRE ALARM NFPA 72 SLC PERFORMANCE DETAIL



B3 FIRE ALARM NFPA 72 SLC PATHWAY DESIGNATION DETAIL



A3 FIRE ALARM NFPA 72 NAC PATHWAY DESIGNATION DETAIL

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Sheet Title: FIRE ALARM RISER DIAGRAM AND DETAILS

Designed by: BINGHAM
Drawn by: POWELL
Checked by: BINGHAM
Approved by: BINGHAM

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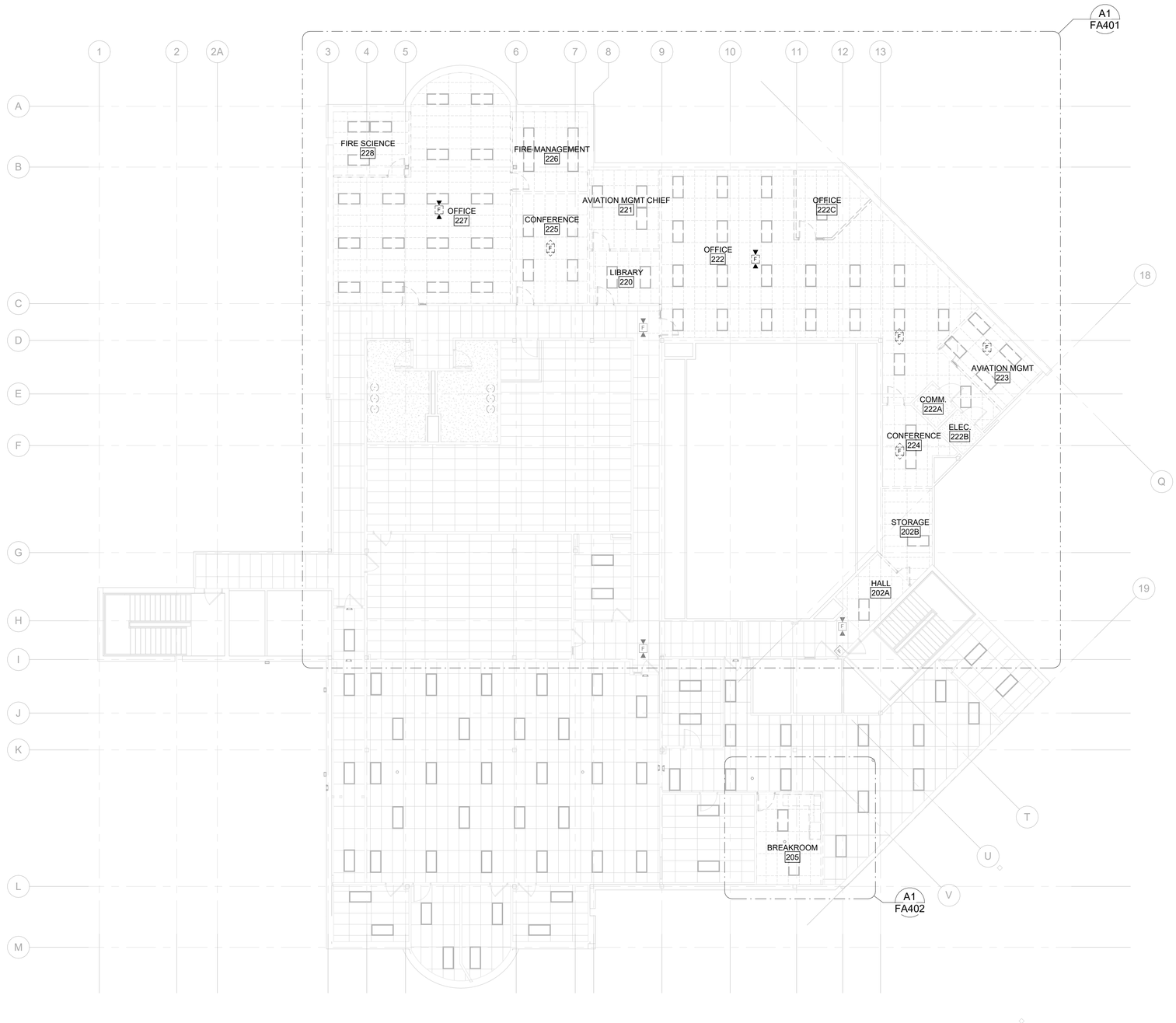

A1 FIRE ALARM DEMOLITION SECOND FLOOR PLAN - OVERALL

0 4' 8' 16' 24'

N

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Sheet Title:
FIRE ALARM DEMOLITION PLAN - OVERALL

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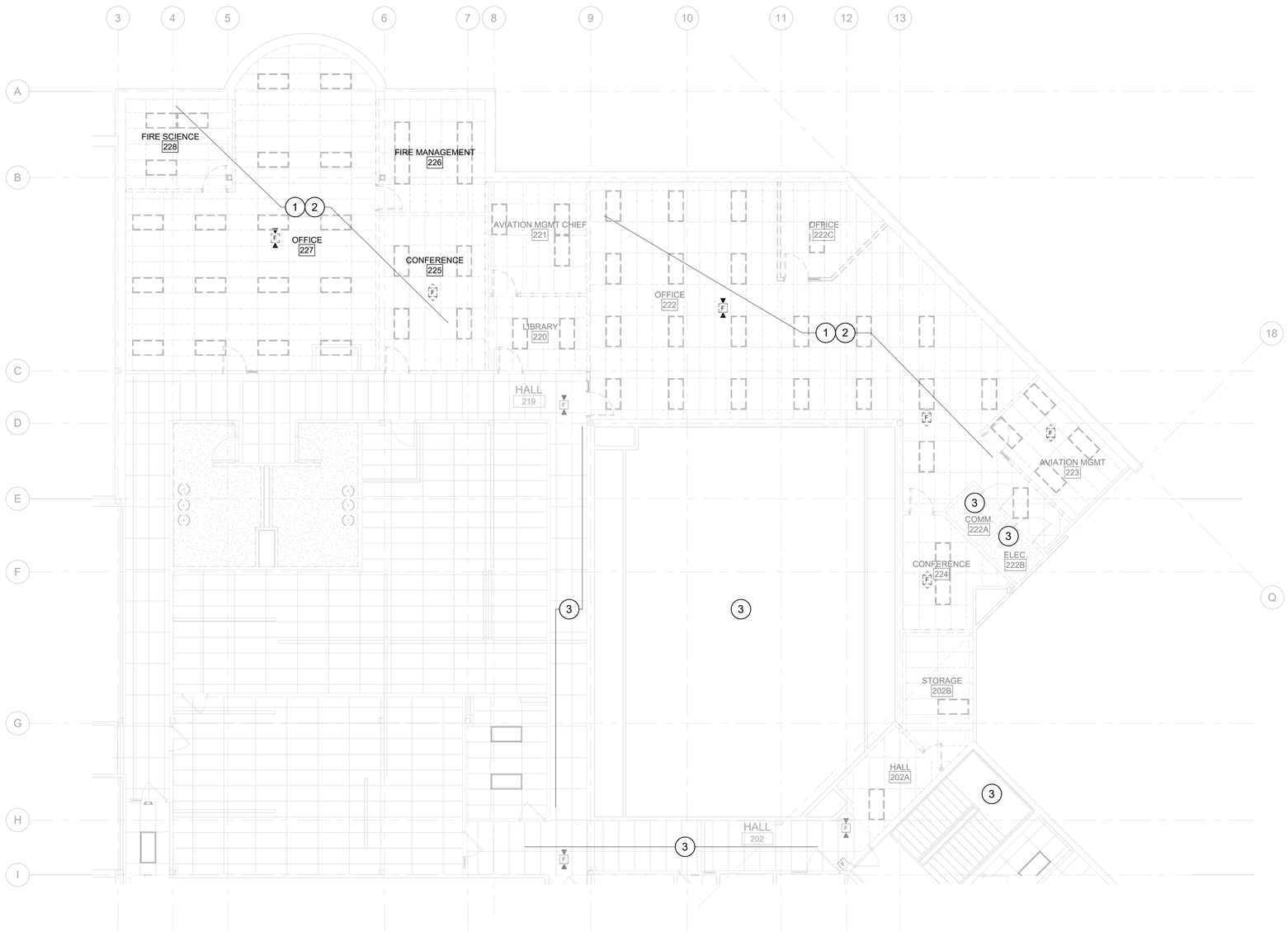
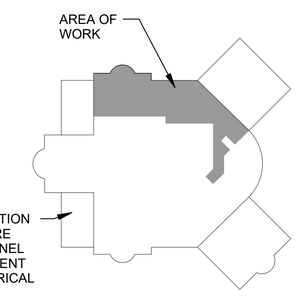


A1 FIRE ALARM DEMOLITION SECOND FLOOR PLAN

SHEET DEMO NOTES

1. DEVICES WITHIN SCOPE OF WORK AREA INDICATED TO BE REMOVED SHALL BE RETAINED FOR RELOCATION TO ACCOMMODATE TENANT IMPROVEMENT CONSTRUCTION.
2. FIRE ALARM CONTRACTOR SHALL FIELD VERIFY CIRCUIT ROUTING AND TEMPORARILY RE-ROUTE CIRCUIT(S) TO NEAREST EXISTING DEVICE NOT WITHIN SCOPE OF WORK AREA TO MAINTAIN OPERATIONAL STATUS OF EXISTING DEVICES TO REMAIN ON THE ASSOCIATED CIRCUIT.
3. NO WORK IN THIS AREA. ALL EXISTING FIRE ALARM DEVICES TO REMAIN.

KEYPLAN



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Sheet Title: FIRE ALARM DEMOLITION PLAN

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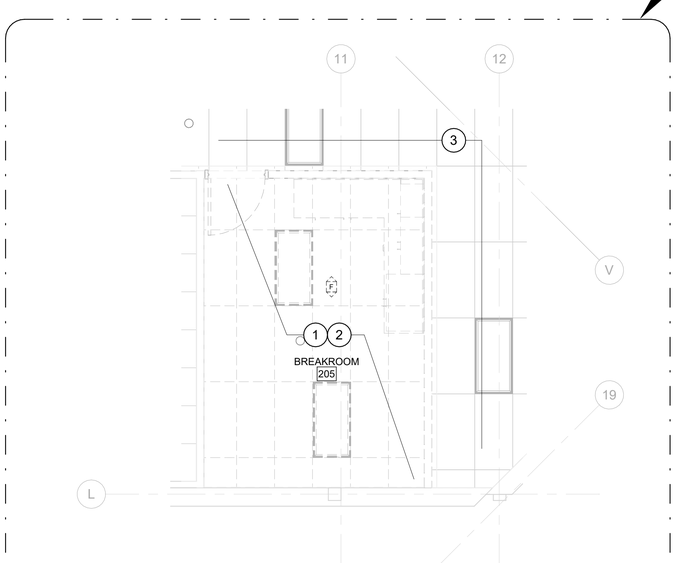
ADD ALTERNATE



A1 FIRE ALARM DEMOLITION SECOND FLOOR PLAN

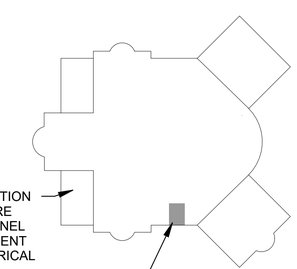
0 2' 4' 8'

N

SHEET DEMO NOTES

1. DEVICES WITHIN SCOPE OF WORK AREA INDICATED TO BE REMOVED SHALL BE RETAINED FOR RELOCATION TO ACCOMMODATE TENANT IMPROVEMENT CONSTRUCTION.
2. FIRE ALARM CONTRACTOR SHALL FIELD VERIFY CIRCUIT ROUTING AND TEMPORARILY RE-ROUTE CIRCUIT(S) TO NEAREST EXISTING DEVICE NOT WITHIN SCOPE OF WORK AREA TO MAINTAIN OPERATIONAL STATUS OF EXISTING DEVICES TO REMAIN ON THE ASSOCIATED CIRCUIT.
3. NO WORK IN THIS AREA. ALL EXISTING FIRE ALARM DEVICES TO REMAIN.

KEYPLAN



APPROXIMATE LOCATION OF THE EXISTING FIRE ALARM CONTROL PANEL LOCATED ON BASEMENT LEVEL ROOM ELECTRICAL ROOM 22.

AREA OF WORK

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Sheet Title: FIRE ALARM DEMOLITION PLAN

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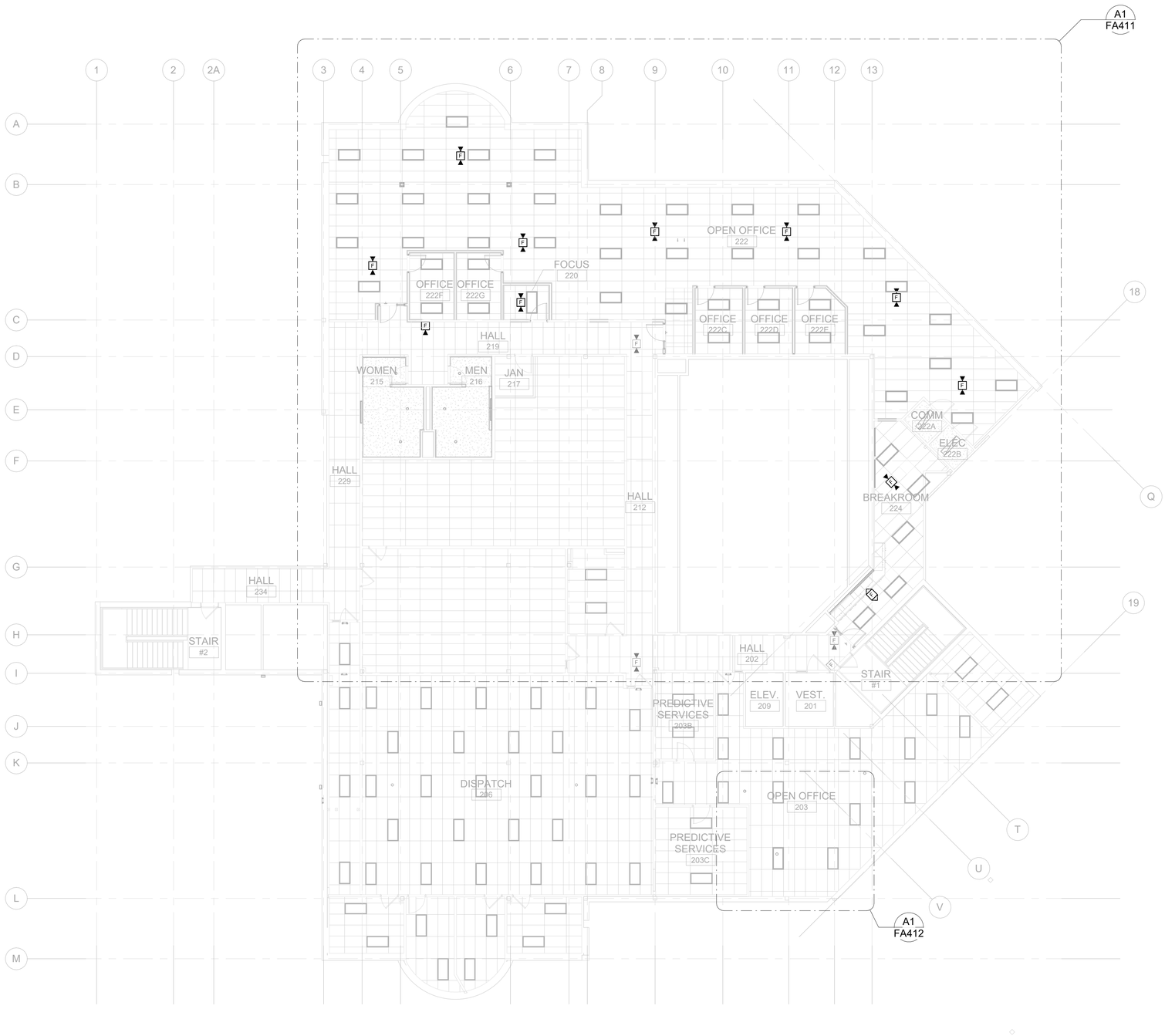

A1 FIRE ALARM REMODEL SECOND FLOOR PLAN - OVERALL

0 4' 8' 16' 24'

N

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Sheet Title:
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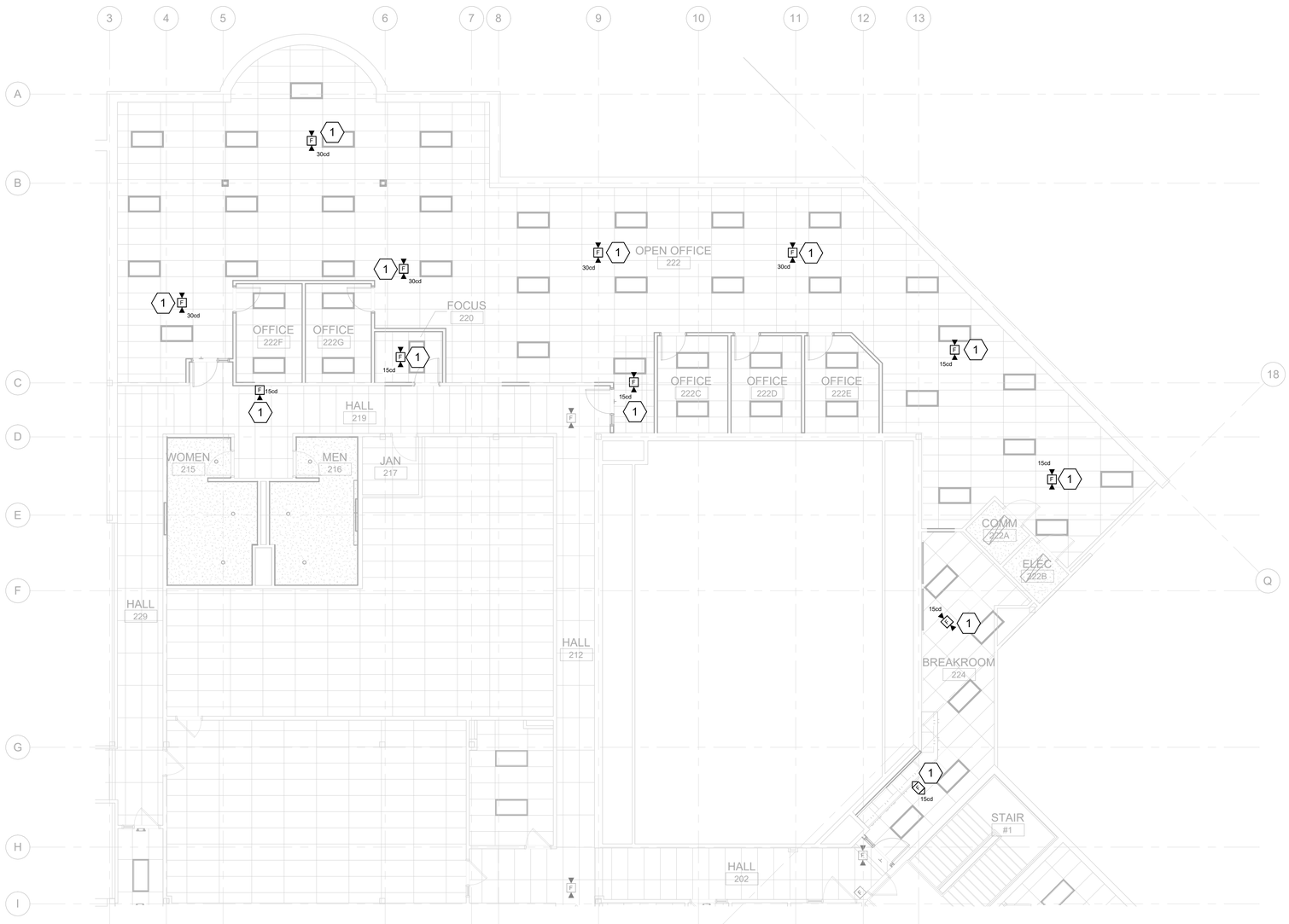

A1 SECOND FLOOR FIRE ALARM PLAN

0 4' 8' 16'

N

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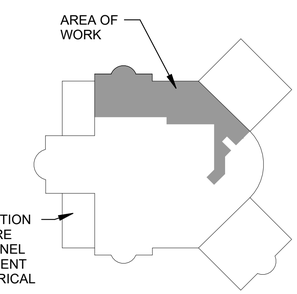
SHEET NOTES

1. RELOCATED NOTIFICATION DEVICE. ADJUST CANDELA SETTING AS INDICATED ON PLANS. CONNECT TO NEAREST EXISTING NOTIFICATION CIRCUIT. PROVIDE NEW DEVICES MATCHING EXISTING AS REQUIRED.

KEYPLAN



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Sheet Title:
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Designed by: BINGHAM
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Checked by: BINGHAM
Approved by: BINGHAM

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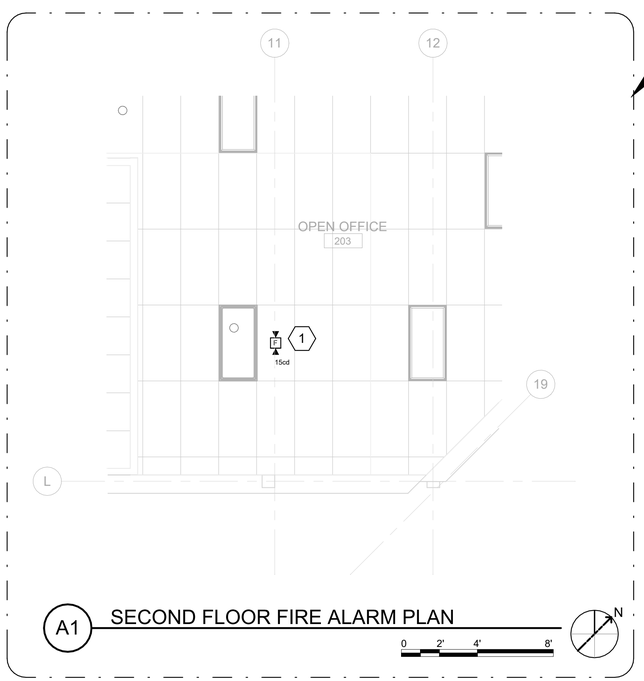


ADD ALTERNATE

A1 SECOND FLOOR FIRE ALARM PLAN

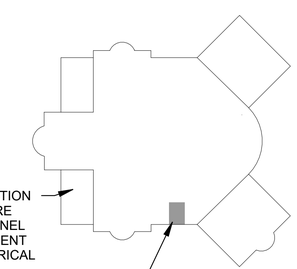
0 2' 4' 8'

N

SHEET NOTES

1. RELOCATED NOTIFICATION DEVICE. ADJUST CANDELA SETTING TO PROVIDE ADEQUATE COVERAGE IN ACCORDANCE WITH NFPA 72. CONNECT TO NEAREST EXISTING NOTIFICATION CIRCUIT. PROVIDE NEW DEVICES MATCHING EXISTING AS REQUIRED.

KEYPLAN



APPROXIMATE LOCATION OF THE EXISTING FIRE ALARM CONTROL PANEL LOCATED ON BASEMENT LEVEL ROOM ELECTRICAL ROOM 22.

AREA OF WORK

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Sheet Title: FIRE ALARM PLAN

Designed by: BINGHAM
Drawn by: POWELL
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1425 Higham Street
Idaho Falls, Idaho 83402
Phone (208) 528-8718
Project No. 070117.029
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PLUMBING LEGEND
(NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS SHOWN ARE USED ON THESE DRAWINGS)

-PIPE LINEWORK-

SYMBOL	DESCRIPTION
	BREAK LINE
	TEE UP
	TEE DOWN
	ELBOW UP
	ELBOW DOWN
	PIPE CAP
	NEW PIPING
	PIPING UNDER FLOOR
	ARCH. WALLS UNDER FLOOR
	CONNECT NEW (SHADED) TO EXISTING
	LIMIT OF DEMOLITION (SHADED)
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRC.
SAN	SANITARY SEWER
VNT	VENT

-GRAPHIC SYMBOLS-

SYMBOL	DESCRIPTION
1	KEY NOTE
1	REVISION NUMBER
	HATCHING INDICATES ITEM(S) TO BE REMOVED
N	NORTH ARROW
1 P102	DETAIL BUBBLE DETAIL NUMBER SHEET NO. - WHERE DETAIL IS SHOWN
A P102	SECTION CUT SECTION LETTER SHEET NO. - WHERE SECTION IS SHOWN

-ABBREVIATIONS-

AFF	ABOVE FINISHED FLOOR
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DTL	DETAIL
(E)	EXISTING
HWR	HOT WATER RETURN
(N)	NEW
NTS	NOT TO SCALE
(S)	SINK
SHT	SHEET
S.S.	SANITARY SEWER
TYP	TYPICAL
WHA	WATER HAMMER ARRESTOR

GENERAL NOTES:

1. COORDINATE PLUMBING FIXTURES AND RELATED PIPING WITH ALL OTHER TRADES AS REQUIRED.
2. CONTRACTOR TO PROTECT AND MAINTAIN EXISTING UTILITIES AS INDICATED. REFERENCE DRAWINGS FROM OTHER TRADES. FIELD LOCATE UNDERGROUND LINES, MARK, AND PROTECT AS NECESSARY. COORDINATE PROTECTION AND ANY AND ALL TEMPORARY DISRUPTIONS OF SERVICE WITH GOVERNMENT AS NECESSARY. PROVIDE ANY REQUIRED SHORING AND STRUCTURAL SUPPORTS OF PIPING AND CONDUITS AS REQUIRED. SCHEDULE WORK AND ANY REQUIRED INSPECTIONS TO MINIMIZE DISRUPTION OF SERVICE AS NECESSARY.
3. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
4. WASTE PIPING SMALLER THAN 3" IS TO BE SLOPED AT 1/4" PER FOOT. ALL WASTE PIPING 3" AND LARGER IS TO BE INSTALLED AT 1/8" SLOPE PER FOOT UNLESS GREATER SLOPE IS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
5. REFER TO PLUMBING FIXTURE SCHEDULE FOR CONNECTION SIZES. FIELD VERIFY FOR TRANSITIONS REQUIRED FOR CONNECTING TO EXISTING PIPING.
6. ALL PIPE FITTINGS AND VALVES INLINE WITH INSULATED PIPE SYSTEMS SHALL BE INSULATED.
7. LOCATE ALL SHUTOFF VALVES AND ALL OTHER OPERATIONAL VALVES FOR EASY ACCESS AND OPERATION. WHERE VALVES MUST NECESSARILY BE LOCATED IN ENCLOSED SPACES, PROVIDE ACCESS PANELS SUFFICIENTLY SIZED FOR OPERATION. PROVIDE IDENTIFICATION ON ACCESS PANELS FOR VALVE USE.
8. PENETRATIONS THROUGH SECURITY RATED WALLS AND FLOORS SHALL BE PROTECTED PER PROJECT REQUIREMENTS.
9. DRAWINGS ARE DIGITALLY EXPORTED TO ANSI D SIZE. IF PHYSICALLY PRINTED DRAWINGS ARE NOT 22" X 34", USE SCALES ACCORDINGLY.

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NIFC 300-JWH SUITE 222/227 RENOVATIONS
NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 S Development Ave Boise, ID 83405 (208) 387 5512

Sheet Title: PLUMBING LEGEND, NOTES AND ABBREVIATIONS

Designed by: C SENGER
Drawn by: C SENGER
Checked by: G TALCIK
Approved by: SJBD

Revisions:

#	Description	Date
0.	100% ISSUED FOR CONSTRUCTION	05/2026

PROFESSIONAL ENGINEER LICENSED 18674 STATE OF IDAHO NATHAN J. STRONGNER

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nstrongner@northwindgrp.com

BLM Project # 140L062F0116
Project # 070117.029
Date: 5/8/2026

P-001

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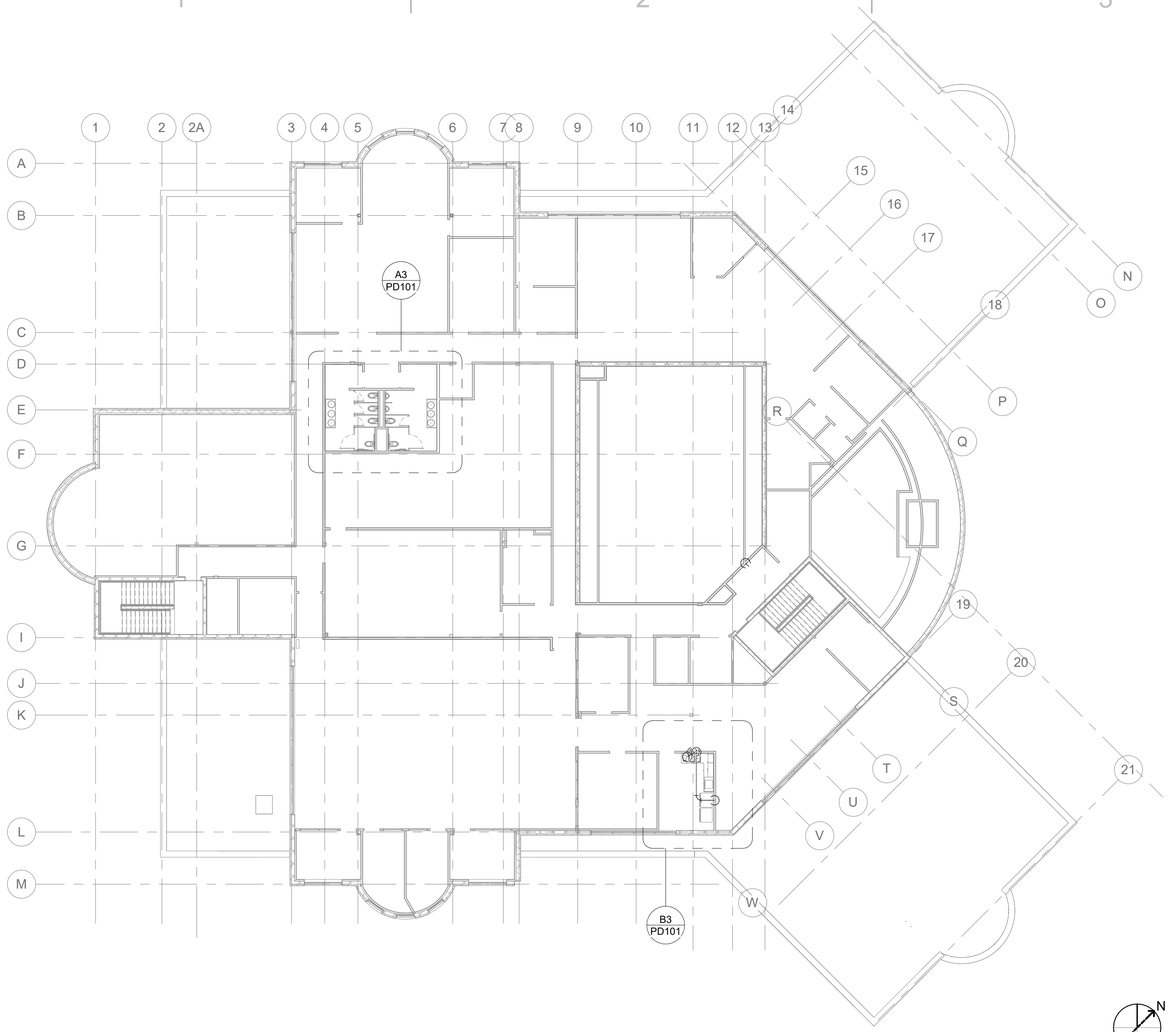
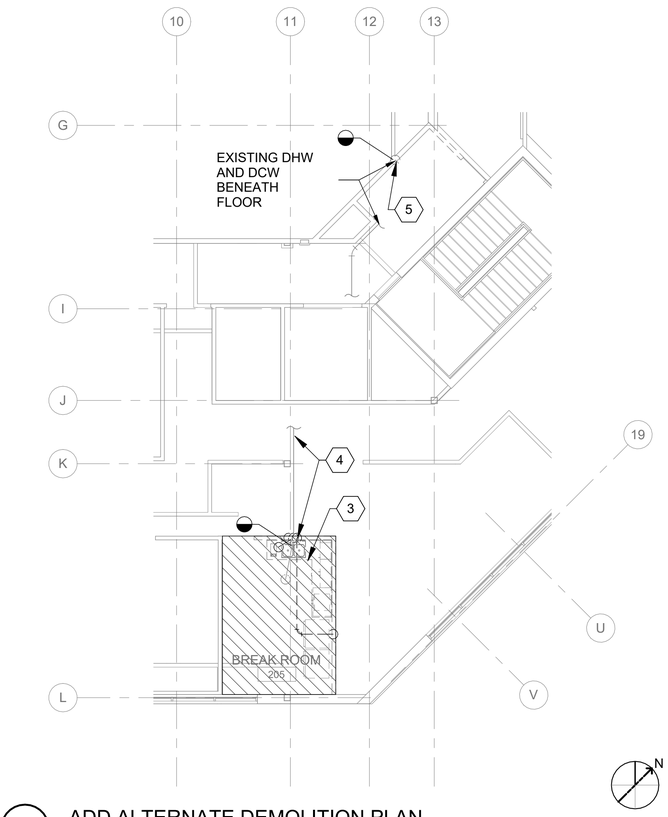


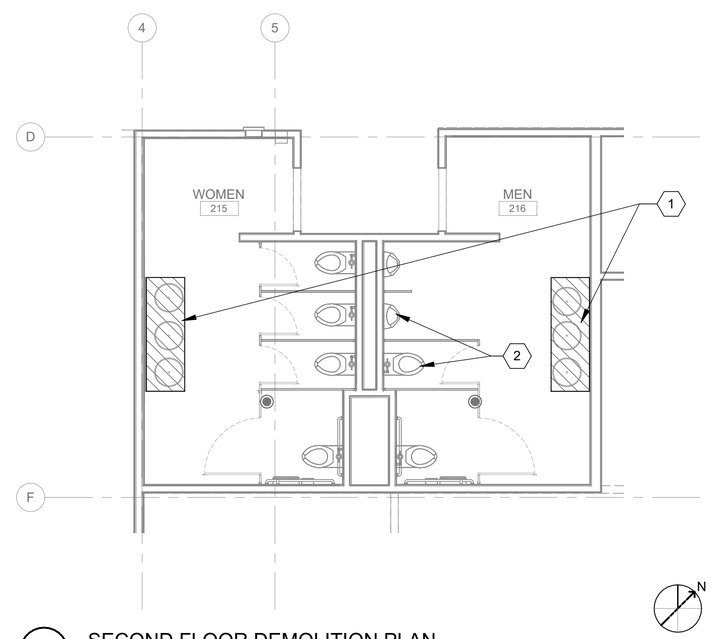
B1 SECOND FLOOR DEMOLITION OVERALL PLUMBING PLAN

0 8' 16' 32'



B3 ADD ALTERNATE DEMOLITION PLAN

0 4' 8' 16'



A3 SECOND FLOOR DEMOLITION PLAN

0 2' 4' 8'

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1425 Higham Street
Idaho Falls, Idaho 83402
Phone (208) 528-8718
Project No. 070117.029

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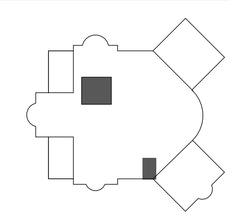
GENERAL SHEET NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC IN CHARACTER AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC.

SHEET KEYNOTES

1. DEMOLISH RESTROOM LAVATORIES. CAP DOMESTIC WATER, SANITARY AND VENT LINES FOR RECONNECTION.
2. THE TILE WILL BE REDONE DURING THIS RENOVATION. PRESERVE AND PROTECT FIXTURES AND PIPING INCLUDING WATER CLOSETS, FLOOR DRAINS AND URINALS BY REMOVING AND PRESERVING FOR RE-INSTALLATION AFTER TILE UPDATE.
3. DEMOLISH ALL DOMESTIC WATER PIPING, PLUMBING FIXTURES AND APPURTENANCES IN THE EXISTING BREAK ROOM 205. DEMOLISH VENT SYSTEM WITHIN THE ROOM AREA. CAP AND ABANDON IN PLACE DOMESTIC WATER AND VENT LINES.
4. SANITARY LINE SHALL BE DEMOLISHED AT THE SINK. PROTECT THE SANITARY LINE PASSING THROUGH FROM THE NEW BREAK ROOM 224.
5. DEMOLISH WALL WATER OUTLET. PRESERVE AND PROTECT PIPING FOR RE-CONNECTION.

KEY PLAN



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Sheet Title:
SECOND FLOOR PLUMBING
DEMOLITION PLAN

Designed by: C SENGER
Drawn by: C SENGER
Checked by: G TALCIK
Approved by: SJBD

Revisions:

#	Description	Date
0	100% ISSUED FOR CONSTRUCTION	05/2026

PROFESSIONAL ENGINEER
LICENSED
18674
STATE OF IDAHO
NATHAN J. STRONGNER

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BLM Project # 140L062F0116
Project # 070117.029
Date: 5/8/2026

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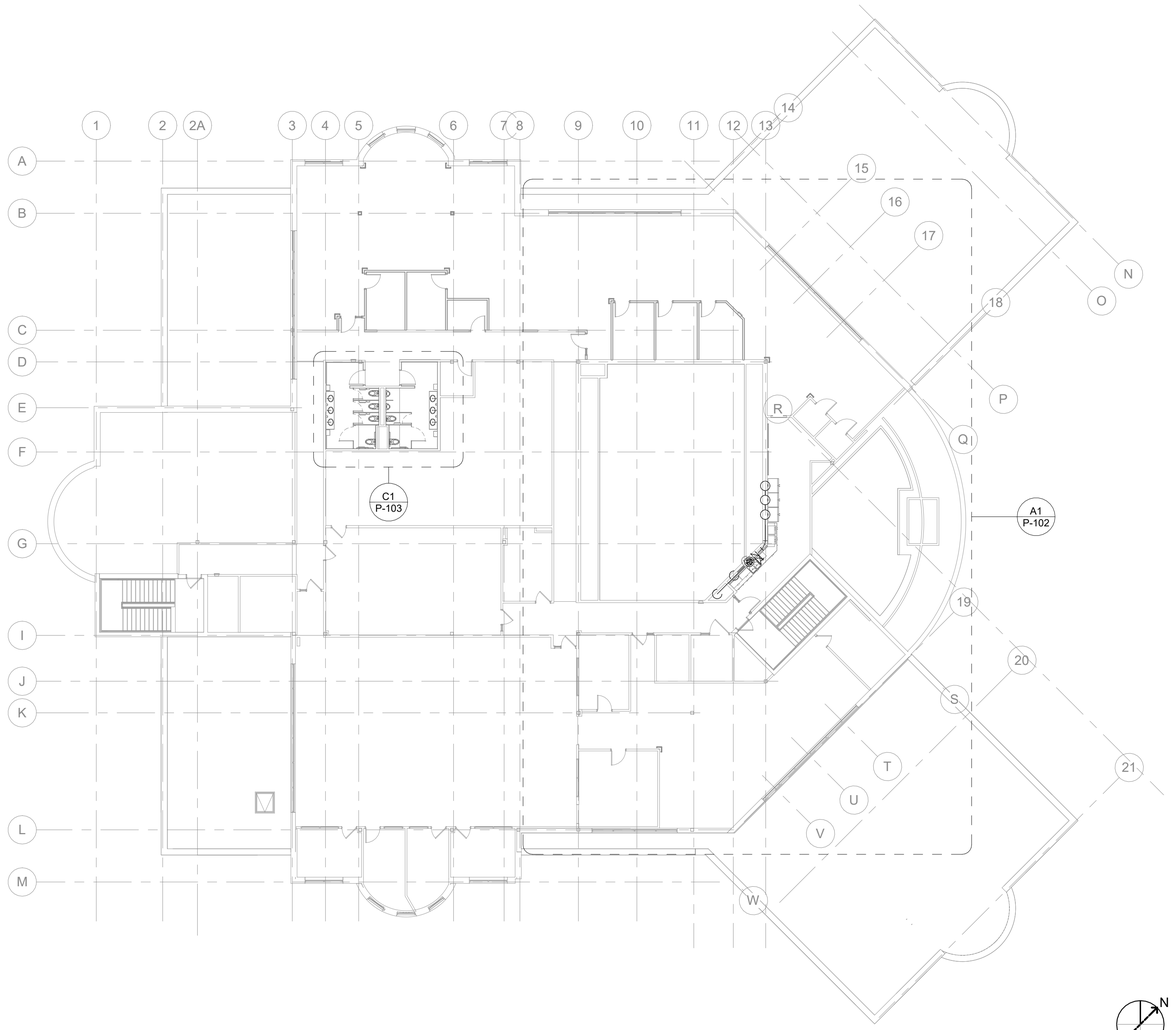

A1 SECOND FLOOR OVERALL PLUMBING PLAN

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Phone (208) 528-8718
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Sheet Title: SECOND FLOOR OVERALL PLUMBING PLAN

Designed by: C SENGER
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Approved by: SJBD

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PROFESSIONAL ENGINEER LICENSED 18674 STATE OF IDAHO NATHAN J. STRONGMAN
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Project # 070117.029
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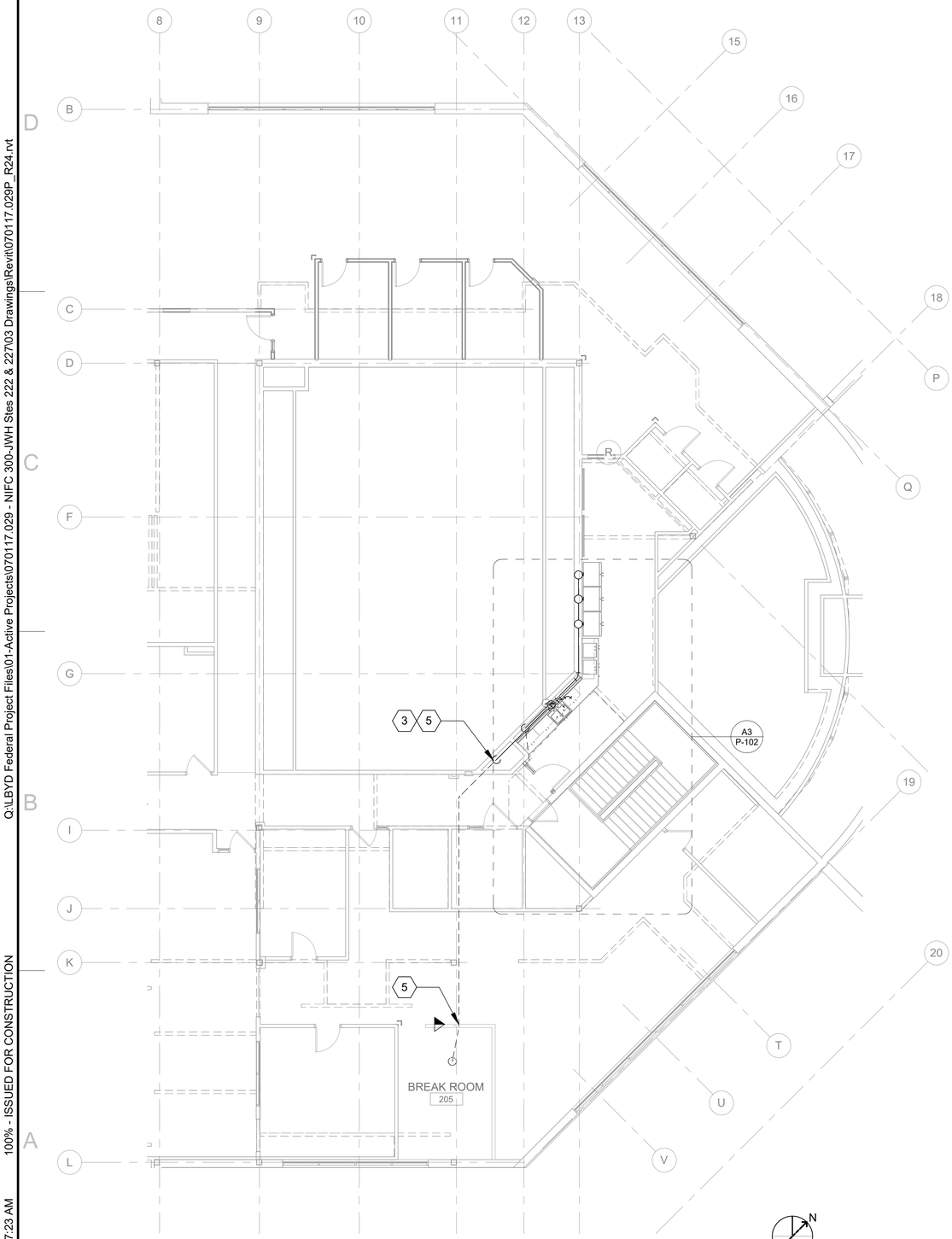
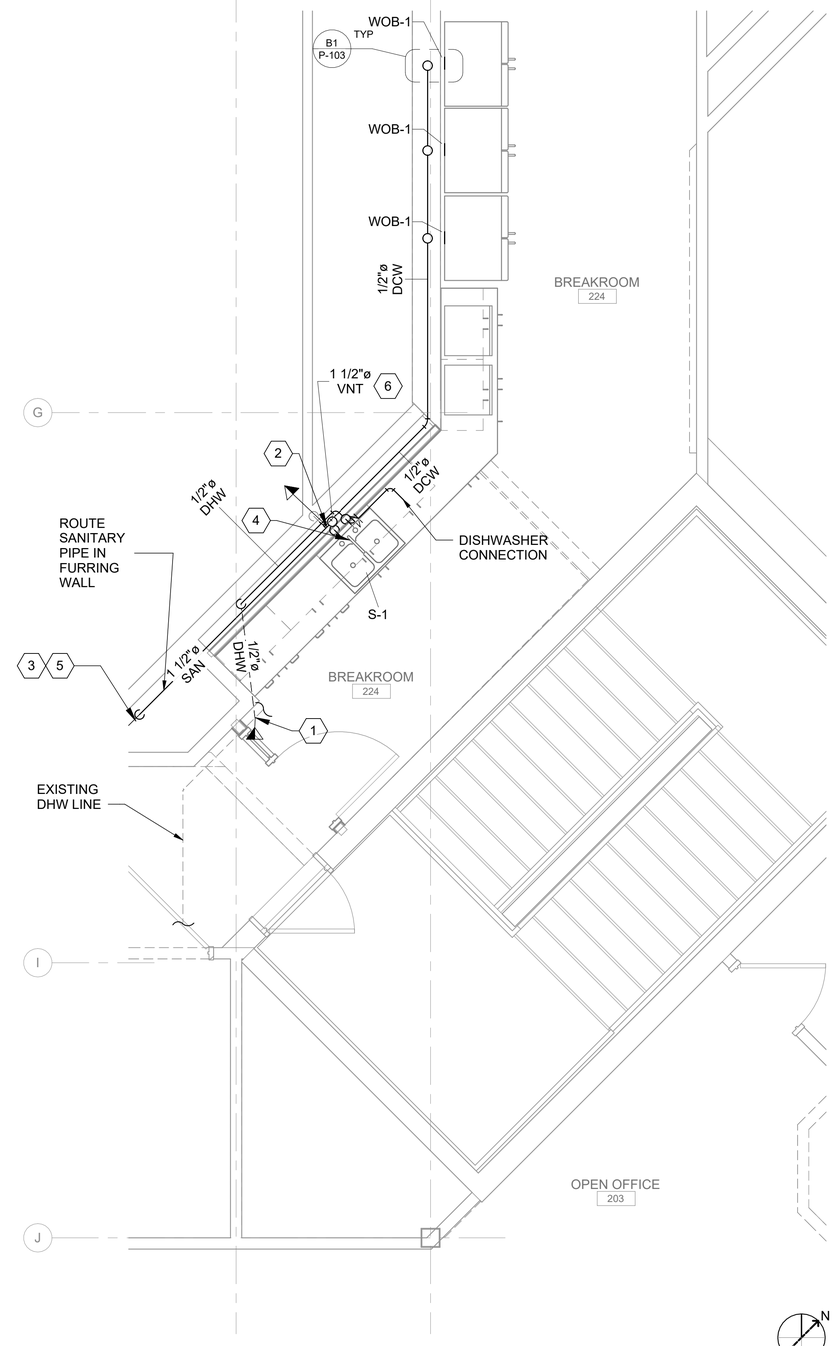


A1 SECOND FLOOR PLUMBING PLAN

0 4' 8' 16'



A3 SECOND FLOOR PLUMBING PLAN

0 1' 2' 4' 6'

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GENERAL SHEET NOTES

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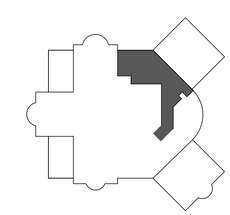
SHEET KEYNOTES

1. CONNECT DHW INTO THE EXISTING PIPES LOCATED BETWEEN THE SECOND FLOOR AND FIRST FLOOR CEILING.
2. TEE OFF EXISTING DCW LINE AND ROUTE TO SINK / WALL OUTLET BOXES FOR REFRIGERATORS.
3. 1 1/2" SANITARY LINE SHALL BE ROUTED TO THE PREVIOUS BREAK AREA 205. DROP THROUGH FLOOR IN THIS SPACE.
4. PROVIDE CLEANOUT UNDER SINK S-1.
5. TIE INTO SANITARY LINE FROM BREAK ROOM SINK. NOTE THE 9" DROP BELOW FLOOR DUE TO REQUIRED PIPE SLOPE. FIELD VERIFY ROUTE.
6. VENT THRU ROOF.

KEY PLAN



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United States Department of the Interior Bureau of Land Management
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Sheet Title: SECOND FLOOR PLUMBING PLAN

Designed by: C SENGER
Drawn by: C SENGER
Checked by: G TALCIK
Approved by: SJBD

Revisions:

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PROFESSIONAL ENGINEER LICENSED 18674 STATE OF IDAHO NATHAN J. STRONGMAN

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BLM Project # 140L062F0116

Project # 070117.029

Date: 5/8/2026

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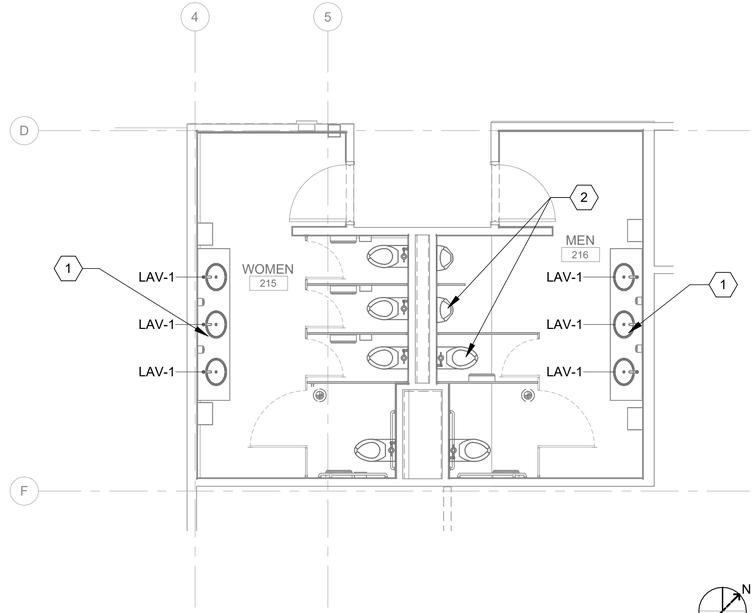
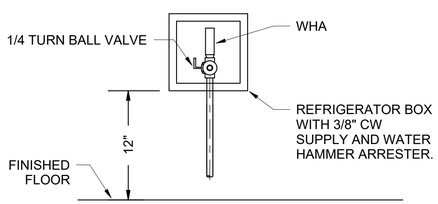


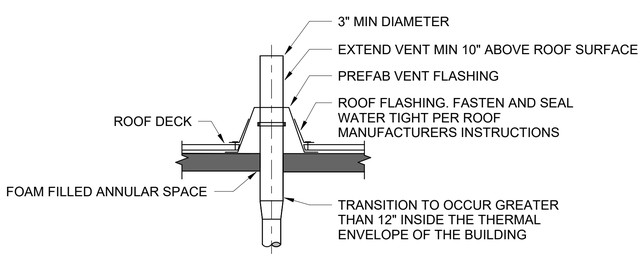
C1 SECOND FLOOR PLUMBING PLAN

0 2' 4' 8'



B1 REFRIGERATOR WATER BOX

NTS



A1 VENT THRU ROOF DETAIL

NTS

PLUMBING FIXTURE SCHEDULE

TYPE MARK	DESCRIPTION	FLOW RATE	CONNECTION SIZE				COUNT	COMMENTS
			COLD WATER INLET	HOT WATER INLET	SANITARY OUTLET	VENT OUTLET		
LAV-1	LAVATORY, UNDERMOUNT, OVAL, 19 - 3/8" X 16 3/16", VITREOUS CHINA	.5 GPM	1/2"	1/2"	1 1/4"	1 1/2"	6	PROVIDE WITH AUTOMATIC SENSOR FAUCET WITH 120V AC PLUG. PROVIDE ASSE1070 MIXING VALVE. PLUG INTO EXISTING UNDER COUNTER RECEPTACLES.
S-1	DOUBLE BASIN SINK, STAINLESS STEEL, COUNTER MOUNT	1.5 GPM	1/2"	1/2"	1 1/2"	2"	1	
WOB-1	WATER OUTLET BOX	3 GPM	3/8"				3	

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Phone (208) 528-8718
Project No. 070117.029

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GENERAL SHEET NOTES

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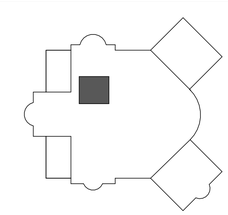
SHEET KEYNOTES

1. INSTALL NEW LAVATORIES AND FAUCETS.
2. RE-INSTALL WATER CLOSETS, URINALS AND FLOOR DRAINS AND ANY OTHER ITEM REMOVED FOR TILE INSTALLATION. PROVIDE NEW CONNECTIONS TO THE FIXTURES.

KEY PLAN



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NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 S Development Ave Boise, ID 83405 (208) 387 5512

Sheet Title:
SECOND FLOOR PLUMBING PLAN / SCHEDULE / DETAILS

Designed by: C SENGER
Drawn by: C SENGER
Checked by: G TALCIK
Approved by: SJBD

Revisions:

#	Description	Date
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PROFESSIONAL ENGINEER LICENSED 18674 STATE OF IDAHO NATHAN J. STRONGMER

Nathan Strongmer
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nstrongmer@northwindpp.com

BLM Project # 140L062F0116

Project # 070117.029

Date: 5/8/2026

P-103

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(NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS SHOWN ARE USED ON THESE DRAWINGS)

DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
	SUPPLY DUCT CROSS SECTION
	RETURN DUCT CROSS SECTION
	EXHAUST DUCT CROSS SECTION
	ROUND SUPPLY DUCT CROSS SECTION
	ROUND RETURN DUCT CROSS SECTION
	ROUND EXHAUST DUCT CROSS SECTION
	MANUAL VOLUME DAMPER
	MOTOR OPERATED CONTROL DAMPER
BDD BDD	BACKFLOW DRAFT DAMPER
	CONICAL FITTING WITH DAMPER
	SQUARE ELBOW WITH TURNING VANES
	SQUARE ELBOW WITHOUT TURNING VANES
	RADIUS ELBOW
	SUPPLY DIFFUSER, RECTANGULAR (OMIT FLOW ARROWS WHEN FLOW DIRECTION IS NOT CONTROLLED)
	SUPPLY DIFFUSER, ROUND (OMIT FLOW ARROWS WHEN FLOW DIRECTION IS NOT CONTROLLED)
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	FLEXDUCT
	FLEXDUCT
	DUCTWORK REDUCER
	DIRECTION OF FLOW
12X20	INSIDE DUCT SIZE (FIRST DIMENSION IS THE DIMENSION IN VIEW)
10"X8"	ONE-LINE DUCT SIZE
	EXISTING TO BE REMOVED
	LIMIT OF DEMOLITION (SHADED SIDE AND HATCHED)
	CONNECT NEW DUCT (SHADED SIDE) TO EXISTING DUCT
R	DUCT RISE
D	DUCT DROP
XX	HVAC SENSOR/CONTROLLER TAG REPLACE "XX" WITH INDICATED

CC HVAC CENTRAL CONTROLLER
CO CARBON MONOXIDE DETECTOR
HS HUMIDISTAT
LT LEVEL TRANSMITTER
M MOTOR
MS MANUAL SWITCH
NO2 NITROGEN DIOXIDE DETECTOR
PIT PRESSURE INDICATING TRANSMITTER
PS PRESSURE SWITCH
OS OCCUPANCY SENSOR
T THERMOSTAT / THERMOMETER

	ALARM
M	MOTOR
MS	MANUAL SWITCH
	FORCE AIR FLOW
	FREE FLOW AIR
	BREAK LINE

PIPEWORK SYMBOLS

SYMBOL	DESCRIPTION
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
CD	CONDENSATE DRAIN LINES
	THERMOSTAT CONTROL WIRING
	(AUTOMATIC) BALANCING VALVE
	BALL VALVE
	FLOW ARROW
	CHECK VALVE
	GATE VALVE
	EXISTING VALVE
	UNION
	REDUCER
	DIAL/GAUGE THERMOMETER
	PRESSURE GAUGE
PT	PRESSURE/TEMPERATURE TEST PORT
	FLOOR SINK
	DRAIN

-GRAPHIC SYMBOLS-

SYMBOL	DESCRIPTION
1	KEY NOTE
1	REVISION NUMBER
EF-1	EQUIPMENT TAG
	HATCHING INDICATES ITEM(S) TO BE REMOVED

DETAIL BUBBLE
DETAIL NUMBER
1 M102
SHEET NO. - WHERE SECTION IS SHOWN

SECTION CUT
SECTION LETTER
A M102
SHEET NO. - WHERE SECTION IS SHOWN

DIFFUSER TAG
SD1 250
XX#
SD - SUPPLY DIFFUSER
EG - EXHAUST GRILLE
RG - RETURN GRILLE
TG - TRANSFER GRILLE NUMBER
AIR FLOW RATE IN CFM (CFM OMITTED FOR RETURN AND TRANSFER GRILLES)

DRAWING VIEW AREA
VIEW NUMBER
NUMBERIC SCALE
VIEW TITLE
A1 TITLE
SCALE 0 8' 16' 32'
NORTH ARROW
N
GRAPHIC SCALE

MECHANICAL ABBREVIATIONS

ABBREV	DESCRIPTION
---- A ----	
A	AREA
A/C	AIR CONDITION
ABS	ABSOLUTE
ACU	AIR-CONDITIONING UNIT
AD	ACCESS DOOR
ADP	APPARATUS DEW POINT
AFF	ABOVE FINISHED FLOOR
AHP	AIR HORSEPOWER
AHU	AIR-HANDLING UNIT
ALT	ALTITUDE
ALTRN	ALTERATION
AMB	AMBIENT
AMP	AMPERE
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
AP	ACCESS PANEL
APPROX	APPROXIMATE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ATM	ATMOSPHERE
AVG	AVERAGE
AWG	AMERICAN WIRE GUAGE
---- B ----	
BARO PR	PRESSURE, BAROMETRIC
BAS	BUILDING AUTOMATION SYSTEM
BHP	BRAKE HORSEPOWER
BOM	BILL OF MATERIAL
BP	BOILING POINT
BTU	BRITISH THERMAL UNIT
---- C ----	
C/C	CENTER TO CENTER
CAP	CAPACITY
CCW	COUNTERCLOCKWISE
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CKT	CIRCUIT
CLG LOAD	COOLING LOAD
CMPR	COMPRESSOR
CO	CLEANOUT
COEF	COEFFICIENT
COND	CONDENSER
CONT	CONTINUE/CONTINUED
COP	COEFFICIENT OF PERFORMANCE
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CV	COEFFICIENT VALVE FLOW
CW	CLOCKWISE
°C	CELSIUS
---- D ----	
DB	DECIBEL
DBT	DRY-BULB TEMPERATURE
DC	DIRECT CURRENT
DEG/°	DEGREE
DENS	DENSITY
DIA/Ø	DIAMETER
DIFF	DIFFERENCE/ DELTA
DP	DEPTH OR DEEP
DPT	DEW-POINT TEMPERATURE
DWG	DRAWING/DRAWINGS
DX	DIRECT EXPANSION
---- E ----	
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE

MECHANICAL ABBREVIATIONS

ABBREV	DESCRIPTION
EER/ EER2	ENERGY EFFICIENCY RATIO RATING
EFF	EFFICIENCY
EL	ELEVATION
EMF	ELECTROMOTIVE FORCE
ENT	ENTERING
EQUIV FT	EQUIVALENT FEET
EQUIV IN	EQUIVALENT INCHES
ESP	EXTERNAL STATIC PRESSURE
EVAP	EVAPORATE
EWT	ENTERING WATER TEMPERATURE
EXP	EXPANSION
---- F ----	
F TO F	FACE TO FACE
FA	FRESH AIR
FP	FREEZING POINT
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FOOT/FEET
FT LB	FOOT-POUND
FVEL	FACE VELOCITY
°F	FAHRENHEIT
---- G ----	
GA	GAGE OR GAUGE
GAL	GALLONS
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS
---- H ----	
HD	HEAD
HG	HEAT GUN
HG	MERCURY
HGT	HEIGHT
HP	HEAT PUMP
HP	HORSEPOWER
HR	HOUR(S)
HSPF/ HSPF2	HEATING SEASONAL PERFORMANCE FACTOR
HTHW	HIGH-TEMPERATURE HOT WATER
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
HX	HEAT EXCHANGER
HZ	FREQUENCY
---- I ----	
ID	DIAMETER, INSIDE
IEER/ IEER2	INTEGRATED ENERGY EFFICIENCY RATIO RATING
in.	INCH
ISP	INTERNATIONAL PIPE STD
---- J ----	
---- K ----	
K	THERMAL CONDUCTIVITY
kW	KILOWATT
kWH	KILOWATT HOUR
---- L ----	
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LF	LINEAR FEET
LG	LENGTH
LH	LATENT HEAT
LHG	LATENT HEAT GAIN
LIQ	LIQUID
LPS	LOW-PRESSURE SYSTEM (SWITCH)
LTHW	LOW-TEMP. HOT WATER
LV	LOUVER
LWT	LEAVING WATER TEMPERATURE
---- M ----	
MACH	MACH NUMBER

MECHANICAL ABBREVIATIONS

ABBREV	DESCRIPTION
MAX	MAXIMUM
MBH/ MBTU	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MASS FLOW RATE
MIN	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
MPH	MILES PER HOUR
MTHW	MEDIUM-TEMP. HOT WATER
MVD	MANUAL VOLUME DAMPER
---- N ----	
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NORMAL
NTS	NOT TO SCALE
---- O ----	
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OC	ON CENTER
OD	DIAMETER, OUTSIDE
OZ	OUNCE
---- P ----	
PCT/%	PERCENT
PD WB	PRESSURE DROP OR DIFFERENCE
PH	PHASE
POC	POINT OF CONNECTION
PPM	PARTS PER MILLION
PSF	POUNDS PER SQUARE FOOT
PSF A	PSF ABSOLUTE
PSF G	PSF GAGE
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GAGE
---- Q ----	
---- R ----	
R	THERMAL RESISTANCE
RA	RETURN AIR
RAD	RADIANT PANEL/ HEATER
RAD	RADIATE/ RADIATOR
RAT	RETURN AIR TEMPERATURE
RECIRC	RECIRCULATE
REF	REFRIGERANT
REV	REVOLUTIONS
RGH	ROUGHNESS
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RPS	REVOLUTIONS PER SECOND
°R	RANKINE
---- S ----	
S	SECOND
SA	SUPPLY AIR
SAT	SATURATION
SCFM	CFM, STANDARD CONDITIONS
SCFS	CUBIC FT PER SEC, STANDARD
SCH	SCHEDULE

MECHANICAL ABBREVIATIONS

ABBREV	DESCRIPTION
SEER/ SEER2	SEASONAL ENERGY EFFICIENCY RATIO RATING
SF	SAFETY FACTOR
SG	SPECIFIC GRAVITY
SH	SENSIBLE HEAT
SHG	SENSIBLE HEAT GAIN
SHR	SENSIBLE HEAT RATIO
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
SP	PRESSURE, STATIC
SP	STATIC PRESSURE
SP HT	SPECIFIC HEAT
SP VOL	SPECIFIC VOLUME
SPEC	SPECIFICATION
SPLY	SUPPLY
SQ	SQUARE
STD	STANDARD
STM	STEAM
SUCT	SUCTION
---- T ----	
TAB	TEST AND BALANCE
TC	THERMOCOUPLE
TD	TEMPERATURE DIFFERENCE
TE	TEMPERATURE ENTERING
TEMP	TEMPERATURE
TL	TEMPERATURE LEAVING
TONS	TONS OF REFRIGERATION
TSH	TOTAL SENSIBLE HEAT
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TYP	TYPICAL
---- U ----	
U	HEAT TRANSFER COEFFICIENT
---- V ----	
V	VALVE
V	VOLT
VA	VOLT AMPERE
VAC	VACUUM
VAP PR	PRESSURE, VAPOR
VAP PRF	VAPOR PROOF
VAR	VARIABLE
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VENT	VENTILATION, VENT
VERT	VERTICAL
VISC	VISCOSITY
VOL	VOLUME
VP	PRESSURE, DYNAMIC (VELOCITY)
VVT	VARIABLE VOLUME AND TEMPERATURE
---- W ----	
W	HUMIDITY RATIO
W	WATT
W VEL	WIND VELOCITY
W/	WITH
WB	WET BULB
WBT	WET-BULB TEMPERATURE
WC	WALL CAP
WH	WATT-HOUR
WT	WEIGHT
---- X ----	
---- Y ----	
YD	YARD
YR	YEAR
---- Z ----	
Z	ZONE
ZD	ZONE DAMPER

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Phone (208) 528-8718

Project No.

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GENERAL MECHANICAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC IN CHARACTER AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. THE CONTRACTOR SHALL PROVIDE COMPLETE AND OPTIMALLY OPERATING MECHANICAL SYSTEMS IN COMPLIANCE WITH APPLICABLE CODES AND INDUSTRY STANDARDS.
2. SEE M500 DRAWING SHEETS FOR INSTALLATION DETAILS.
3. ALL WORK SHALL COMPLY WITH THE INTERNATIONAL MECHANICAL CODE, NFPA REQUIREMENTS, UFC REQUIREMENTS, AND ALL APPLICABLE LOCAL AND FEDERAL CODES.
4. ALL PENETRATIONS THROUGH FIRE WALLS SHALL BE SEALED BY UL LISTED FIRESTOP. REFER TO THE IBC AND NFPA FOR CAULKING REQUIREMENTS AROUND FIRE AND FIRE/SMOKE DAMPERS AND PIPE PENETRATIONS.
5. ALL MEDIUM PRESSURE SUPPLY DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST SMACNA HVAC CONSTRUCTION MANUAL FOR 4" W.G. STATIC PRESSURE CLASSIFICATION.
6. WHERE BRANCH TAPS OCCUR, PROVIDE SHOE FITTINGS WITH INDIVIDUAL DAMPERS FOR BALANCING.
7. COORDINATE LOCATION AND PROVIDE DUCT ACCESS FOR ENCLOSED ITEMS. ENSURE DUCT ACCESS DOORS AND DAMPERS ARE ACCESSIBLE THROUGH CEILINGS AND WALLS. LOCATE DUCT ACCESS DOORS ABOVE SPACES WITH LAY-IN CEILINGS OR EXPOSED CEILINGS WHERE POSSIBLE. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
8. PROVIDE CANVAS, FLAME RETARDANT FLEXIBLE DUCT CONNECTORS AT ALL CONNECTIONS OF FANS TO DUCTWORK.
9. PROVIDE A MINIMUM OF 10 FOOT SEPARATION FOR OUTDOOR AIR INTAKE AND EXHAUST, PLUMBING VENT, OR OTHER VENT OUTLETS, PER CODE.
10. ROOM THERMOSTATS SHALL BE INSTALLED 48" ABOVE THE FINISHED FLOOR, UNLESS OTHERWISE NOTED.
11. DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. INTERNAL DUCT LINER SHALL NOT BE USED UNLESS OTHERWISE INDICATED ON THE DRAWINGS. WHERE DUCT LINER IS INSTALLED, INCREASE DUCT SIZE TO PROVIDE INSIDE CLEAR DIMENSIONS SHOWN ON DRAWINGS. EXPOSED DUCT LINER SHALL NOT BE USED.
12. EQUIPMENT CONNECTIONS SHALL BE PROVIDED WITH UNION OR FLANGES TO FACILITATE DISCONNECTIONS. USE DIELECTRIC CONNECTIONS FOR DISSIMILAR METALS.
13. TO THE EXTENT POSSIBLE, PROVIDE MINIMUM 6 INCH CLEARANCE BETWEEN MECHANICAL EQUIPMENT IN THE CEILING AND OTHER EQUIPMENT, STRUCTURAL, BUILDING COMPONENTS, ETC.
14. DRAWINGS ARE PRINTED IN ANSI D SIZE. IF DRAWINGS ARE NOT 22" X 34", USE SCALE ACCORDINGLY.
15. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION OF CEILING DIFFUSERS/GRILLES, EXTERIOR WALL LOUVERS, AND ROOF PENETRATIONS.
16. PIPING AND DUCT LAYOUT SHOWN SHALL BE MODIFIED AS REQUIRED TO CONFORM TO ACTUAL CONDITIONS. COORDINATE ACTUAL PIPING AND DUCT INSTALLATION WITH STRUCTURE, OVERHEAD DOORS, LIGHTING, OTHER TRADES, ETC.

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Sheet Title: LEGEND, NOTES AND ABBREVIATIONS

Designed by: N FRONGNER
Drawn by: N FRONGNER
Checked by: G TALCIK
Approved by: SBD

Revisions:

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Nathan Frongner
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Project # 070117.029
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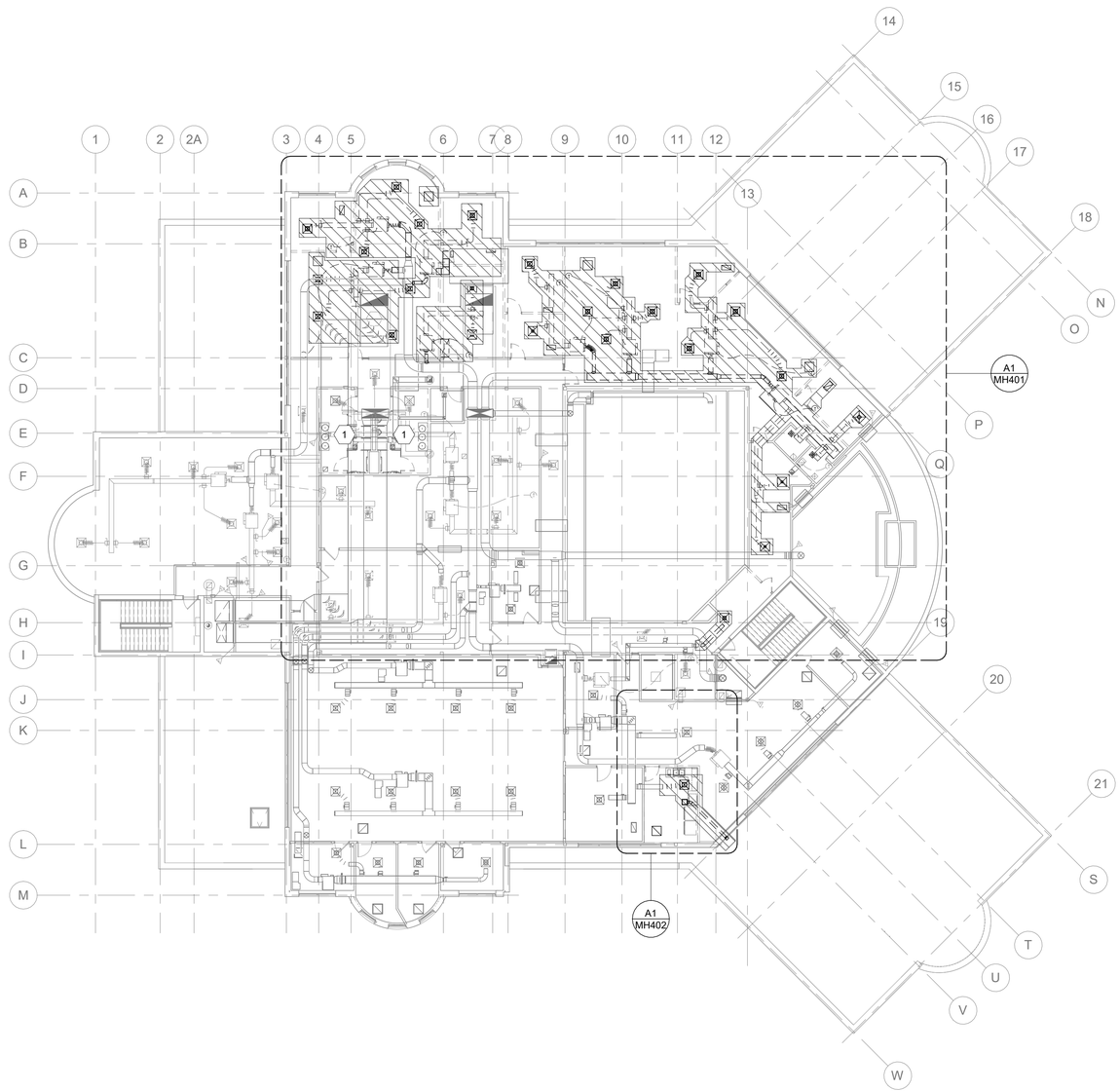

A1 SECOND FLOOR HVAC DEMOLITION OVERALL PLAN

0 8' 16' 32'

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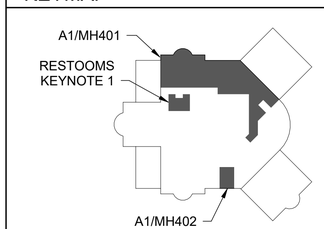
GENERAL SHEET NOTES

1. FIELD VERIFY LOCATION OF ALL EQUIPMENT AND DUCT WORK TO BE DEMOLISHED AND IDENTIFY ALL ITEMS TO BE SALVAGED PRIOR TO START OF THE DEMOLITION WORK.
2. ISOLATE AND DEACTIVATE HVAC VAV SYSTEMS IN THE RENOVATION AREAS DURING CONSTRUCTION.
3. THE EXISTING HVAC DUCT WORK AND DAMPERS NOT IDENTIFIED FOR REWORK ARE TO REMAIN IN PLACE DURING CONSTRUCTION. INSTALL TEMPORARY PLUGS OR FILTERS INTO THE BUILDING'S HVAC DUCT SYSTEMS TO PREVENT CONTAMINATE FROM ENTERING INTO THE AIR SYSTEMS.
4. STORE ALL REMOVED DIFFUSER AND GRILLES AS SALVAGED ITEMS IN SAFE LOCATION UNTIL REINSTALLATION OF THE EQUIPMENT. UNUSED DIFFUSERS AND GRILLES ARE NOT TO BE DISPOSED OF UNTIL ALL CONSTRUCTION PHASES ARE COMPLETE.

SHEET KEYNOTES

1. NO DEMOLITION REQUIRED FOR THE HVAC SYSTEMS IN THE RESTROOMS FOR RENOVATION SCOPE OF WORK.

KEYMAP



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Sheet Title: SECOND FLOOR HVAC DEMOLITION OVERALL PLAN

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Drawn by: N FRONGNER
Checked by: G TALCIK
Approved by: SBD

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BLM Project # 140L062F0116
Project # 070117.029
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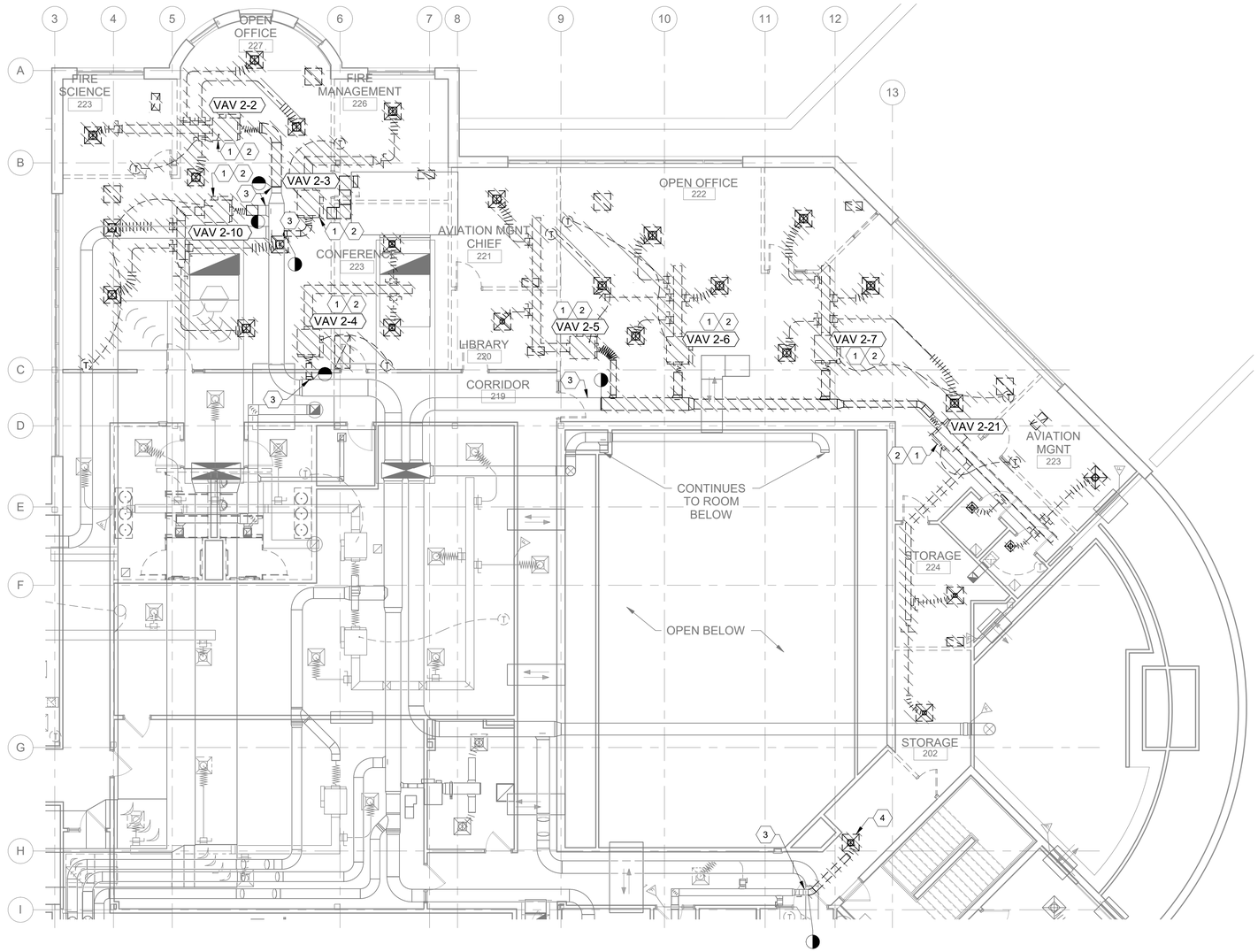

A1 SECOND FLOOR HVAC DEMOLITION PLAN

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GENERAL SHEET NOTES

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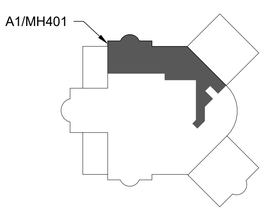
2. ISOLATE AND DEACTIVATE HVAC VAV SYSTEMS IN THE RENOVATION AREAS DURING CONSTRUCTION.
3. THE EXISTING HVAC DUCT WORK AND DAMPERS NOT IDENTIFIED FOR REWORK ARE TO REMAIN IN PLACE DURING CONSTRUCTION. INSTALL TEMPORARY PLUGS OR FILTERS INTO THE BUILDING'S HVAC DUCT SYSTEMS TO PREVENT CONTAMINATE FROM ENTERING INTO THE AIR SYSTEMS.
4. STORE ALL REMOVED DIFFUSER AND GRILLES AS SALVAGED ITEMS IN SAFE LOCATION UNTIL REINSTALLATION OF THE EQUIPMENT. UNUSED DIFFUSERS AND GRILLES ARE NOT TO BE DISPOSED OF UNTIL ALL CONSTRUCTION PHASES ARE COMPLETE.

SHEET KEYNOTES

1. DEMOLISH INDICATED VAV AND ASSOCIATED DUCT WORK AS INDICATED.
2. DEMOLISH AND SALVAGE THE ASSOCIATED VAV THERMOSTAT AND CONTROLS WITH THE DEMOLISHED VAV FOR REINSTALLATION IN THE NEW FLOOR CONFIGURATION.
3. INSPECT, CLEAN, AND REPAIR DUCT SYSTEMS WITHIN 2' OF END OF DEMOLITION POINTS PER SPECIFICATION 230130.52. PROVIDE TEMPORARY DUCT PLUGS IN OPEN DUCTWORK UNTIL NEW DUCT WORK IS INSTALLED FOR THE NEW SYSTEM CONFIGURATION.
4. REMOVE AND SALVAGE INDICATED DIFFUSER OR GRILLE. CLEAN AND PROTECT FOR INSTALLATION.

KEYMAP



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Sheet Title: ENLARGED HVAC DEMOLITION PLANS

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Drawn by: N FRONGNER
Checked by: G TALCIK
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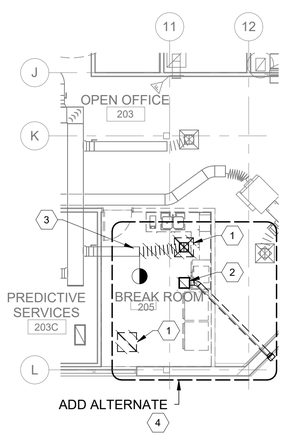

A1 SECOND FLOOR HVAC DEMOLITION PLAN

N

0 4' 8' 16'

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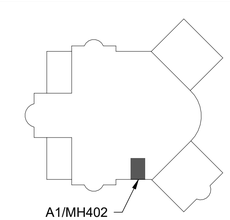
2. ISOLATE AND DEACTIVATE HVAC VAV SYSTEMS IN THE RENOVATION AREAS DURING CONSTRUCTION.
3. THE EXISTING HVAC DUCT WORK AND DAMPERS NOT IDENTIFIED FOR REWORK ARE TO REMAIN IN PLACE DURING CONSTRUCTION. INSTALL TEMPORARY PLUGS OR FILTERS INTO THE BUILDING'S HVAC DUCT SYSTEMS TO PREVENT CONTAMINATE FROM ENTERING INTO THE AIR SYSTEMS.
4. STORE ALL REMOVED DIFFUSER AND GRILLES AS SALVAGED ITEMS IN SAFE LOCATION UNTIL REINSTALLATION OF THE EQUIPMENT. UNUSED DIFFUSERS AND GRILLES ARE NOT TO BE DISPOSED OF UNTIL ALL CONSTRUCTION PHASES ARE COMPLETE.

SHEET KEYNOTES

1. REMOVE AND SALVAGE INDICATED DIFFUSER OR GRILLE. CLEAN AND PROTECT FOR INSTALLATION.
2. DEMOLISH EXHAUST FAN AND DUCT WORK. PATCH AND REPAIR PENETRATION THRU THE EXTERIOR WALL TO MATCH EXISTING WALL AS DIRECTED BY ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
3. INSPECT, CLEAN, AND REPAIR DUCT SYSTEMS WITHIN 2' OF END OF DEMOLITION POINTS PER SPECIFICATION 230130.52. PROVIDE TEMPORARY DUCT PLUGS IN OPEN DUCTWORK UNTIL NEW DUCT WORK IS INSTALLED FOR THE NEW SYSTEM CONFIGURATION.
4. WORK IN AREA INCLUDED AS AN ADD ALTERNATE.

KEYMAP



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Sheet Title:
ENLARGED HVAC DEMOLITION PLANS

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PROFESSIONAL ENGINEER
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18674
STATE OF IDAHO
NATHAN A. FRONGNER

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nfrongner@northwindgrp.com

BLM Project # 140L062F0116

Project # 070117.029

Date: 05/08/2026

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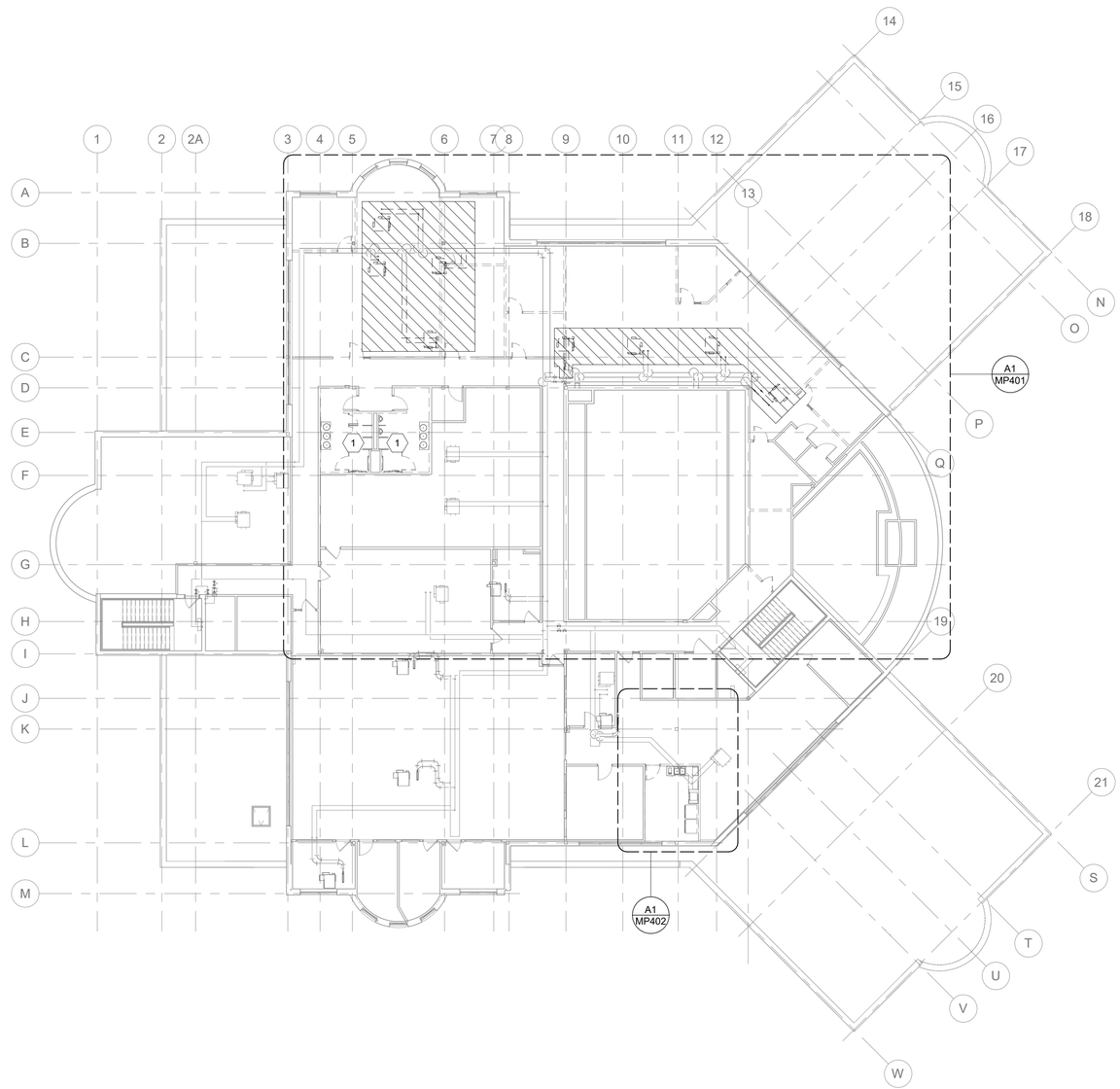

A1 SECOND FLOOR HYDRONIC DEMOLITION PLAN

0 8' 16' 32'

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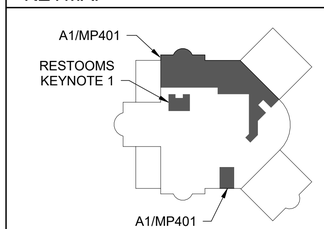
2. ISOLATE AND DEACTIVATE HVAC VAV SYSTEMS IN THE RENOVATION AREAS DURING CONSTRUCTION.
3. UNLESS OTHERWISE STATED, ALL HYDRONIC PIPING SHALL BE 1" COPPER PER SPECIFICATION SECTION 23 21 13. INSULATE PIPING PER SPECIFICATION SECTION 23 07 19.

SHEET KEYNOTES

1. NO DEMOLITION REQUIRED FOR THE HVAC SYSTEMS IN THE RESTROOMS FOR RENOVATION SCOPE OF WORK.

KEYMAP



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Sheet Title:
SECOND FLOOR HYDRONICS DEMOLITION OVERALL PLAN

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Nathan Frongner, P.E.
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nfrongner@northwindgrp.com

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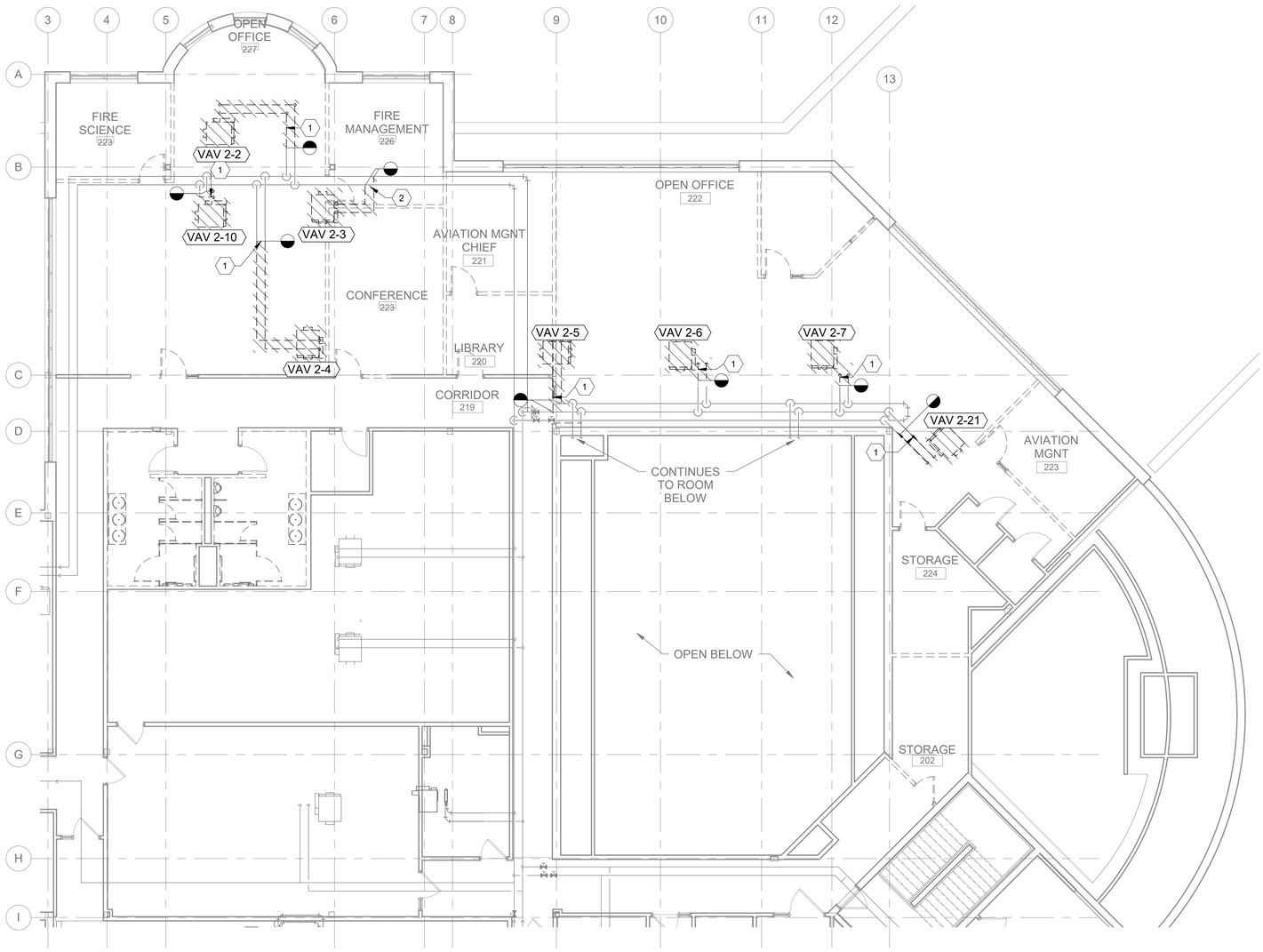

A1 SECOND FLOOR HYDRONIC DEMOLITION PLAN

0 4' 8' 16'

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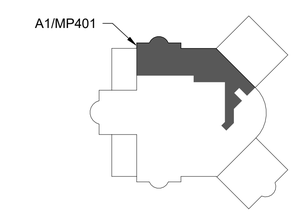
2. ISOLATE AND DEACTIVATE HVAC VAV SYSTEMS IN THE RENOVATION AREAS DURING CONSTRUCTION.
3. UNLESS OTHERWISE STATED, ALL HYDRONIC PIPING SHALL BE 1" COPPER PER SPECIFICATION SECTION 23 21 13. INSULATE PIPING PER SPECIFICATION SECTION 23 07 19.
4. COORDINATE HEATING WATER SERVICE SHUT DOWNS WITH GOVERNMENT PRIOR TO PERFORMING WORK ON HYDRONIC WATER SYSTEMS.

SHEET KEYNOTES

1. ISOLATE VAV WATER SUPPLY AND RETURN HYDRONIC LINES. CUT AND DEMOLISH HYDRONIC LINES TO WHERE INDICATED AND INSTALL TEMPORARY CAP ON HYDRONIC LINES FOR THE INSTALLATION OF NEW SYSTEM EQUIPMENT.
2. ISOLATE VAV WATER SUPPLY AND RETURN HYDRONIC LINES. CUT AND DEMOLISH HYDRONIC LINES BACK TO BRANCH CONNECTION AND INSTALL CAP ON HYDRONIC LINES. CONNECTION TO BE ABANDONED.

KEYMAP



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Sheet Title: ENLARGED HYDRONICS DEMOLITION PLANS

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Drawn by: N FRONGNER
Checked by: G TALCIK
Approved by: SBD

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nfrongner@northwindgrp.com

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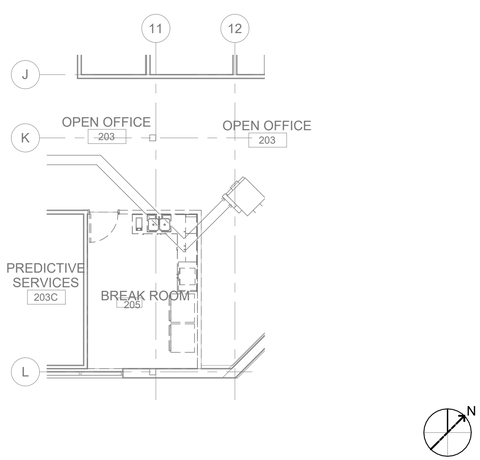

A1 SECOND FLOOR HYDRONIC DEMOLITION PLAN

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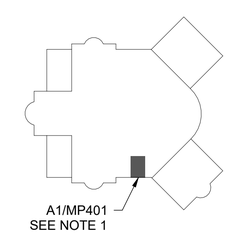
GENERAL SHEET NOTES

1. NO HYDRONIC DEMOLITION REQUIRED FOR THE HVAC SYSTEMS IN THE EXISTING BREAKROOM FOR THE RENOVATION SCOPE OF WORK.

KEYMAP



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NATIONAL SYSTEM OF PUBLIC LANDS
U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NIFC 300-JWH SUITE 222/227
RENOVATIONS
NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83405 (208) 387-5512

Sheet Title:
ENLARGED HYDRONICS DEMOLITION PLANS

Designed by: N FRONGNER
Checked by: G TALCIK
Drawn by: N FRONGNER
Approved by: SBD

Revisions:

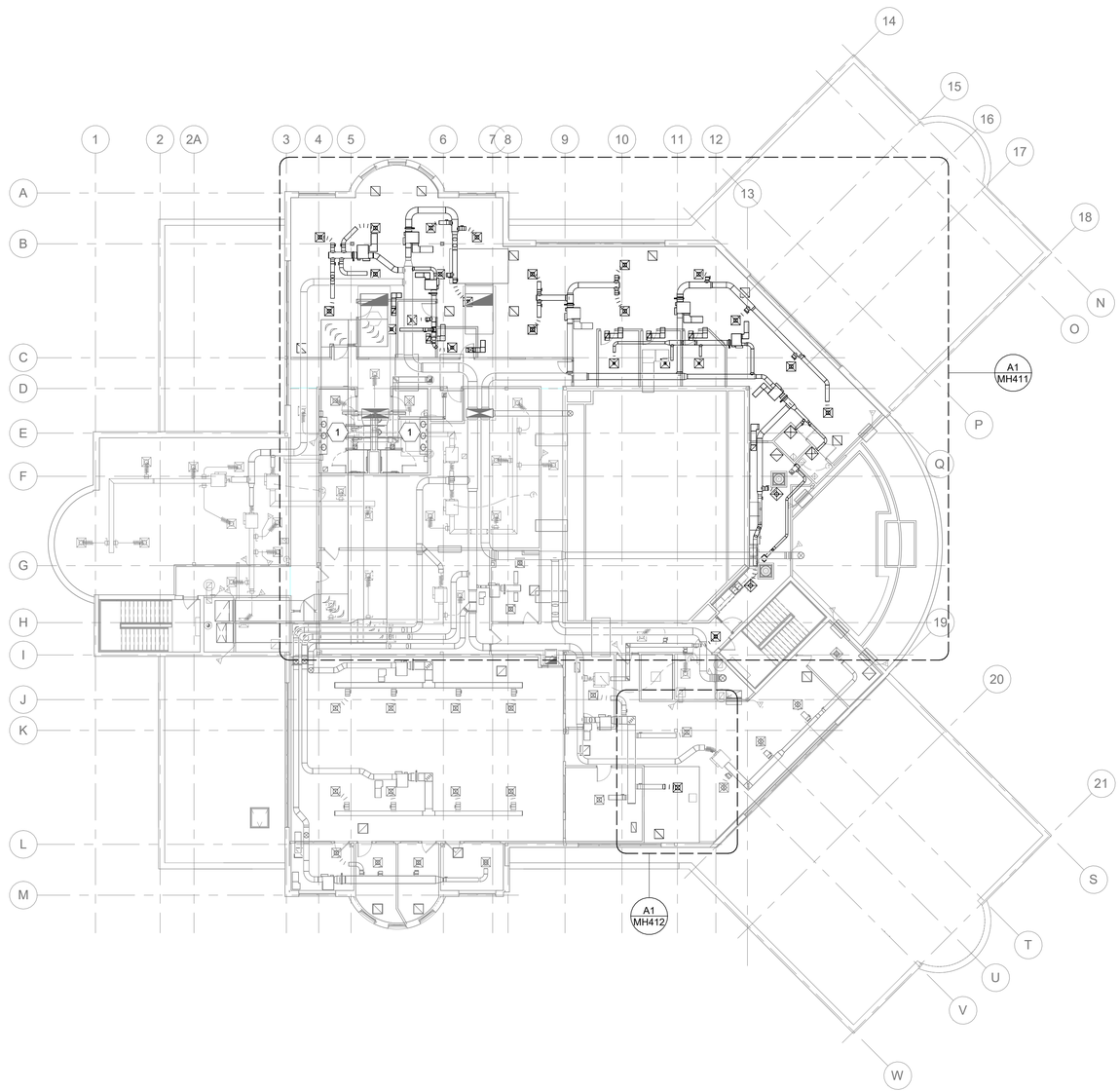
#	Description	Date
0	100% - ISSUED FOR CONSTRUCTION	05/2026

PROFESSIONAL ENGINEER
LICENSED
18674
STATE OF IDAHO
NATHAN A. FRONGNER

Nathan Frongner, P.E.
2026.05.08 09:27:53-06'00'
nfrongner@northwindgrp.com

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

MP402



A1 SECOND FLOOR HVAC OVERALL PLAN

0 8' 16' 32'

LBYD FEDERAL, LLC
1425 Higham Street
Idaho Falls, Idaho 83402
Phone (208) 528-8718
Project No.
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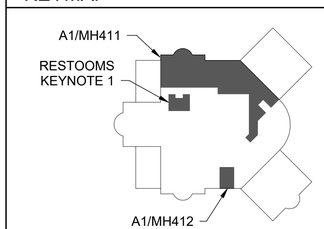
GENERAL SHEET NOTES

1. FIELD VERIFY LOCATION OF ALL EQUIPMENT AND DUCT WORK TO BE DEMOLISHED AND IDENTIFY ALL ITEMS TO BE SALVAGED PRIOR TO START OF THE DEMOLITION WORK.
2. ISOLATE AND DEACTIVATE HVAC VAV SYSTEMS IN THE RENOVATION AREAS DURING CONSTRUCTION.
3. THE EXISTING HVAC DUCT WORK AND DAMPERS NOT IDENTIFIED FOR REWORK ARE TO REMAIN IN PLACE DURING CONSTRUCTION. INSTALL TEMPORARY PLUGS OR FILTERS INTO THE BUILDING'S HVAC DUCT SYSTEMS TO PREVENT CONTAMINATE FROM ENTERING INTO THE AIR SYSTEMS.
4. STORE ALL REMOVED DIFFUSER AND GRILLES AS SALVAGED ITEMS IN SAFE LOCATION UNTIL REINSTALLATION OF THE EQUIPMENT. UNUSED DIFFUSERS AND GRILLES ARE NOT TO BE DISPOSED OF UNTIL ALL CONSTRUCTION PHASES ARE COMPLETE.

SHEET KEYNOTES

1. NO INSTALLATION WORK REQUIRED FOR THE HVAC SYSTEMS IN THE RESTROOMS FOR SUITE 222 RENOVATION SCOPE OF WORK.

KEYMAP



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Sheet Title: SECOND FLOOR HVAC OVERALL PLAN

Designed by: N FRONGNER
Drawn by: N FRONGNER
Checked by: G TALCIK
Approved by: SBD

Revisions:

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PROFESSIONAL ENGINEER LICENSED 18674 STATE OF IDAHO NATHAN A. FRONGNER
Nathan Frongner
2026.05.08 09:27:14-06'00'
nfrongner@northwindgrp.com

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

MH111

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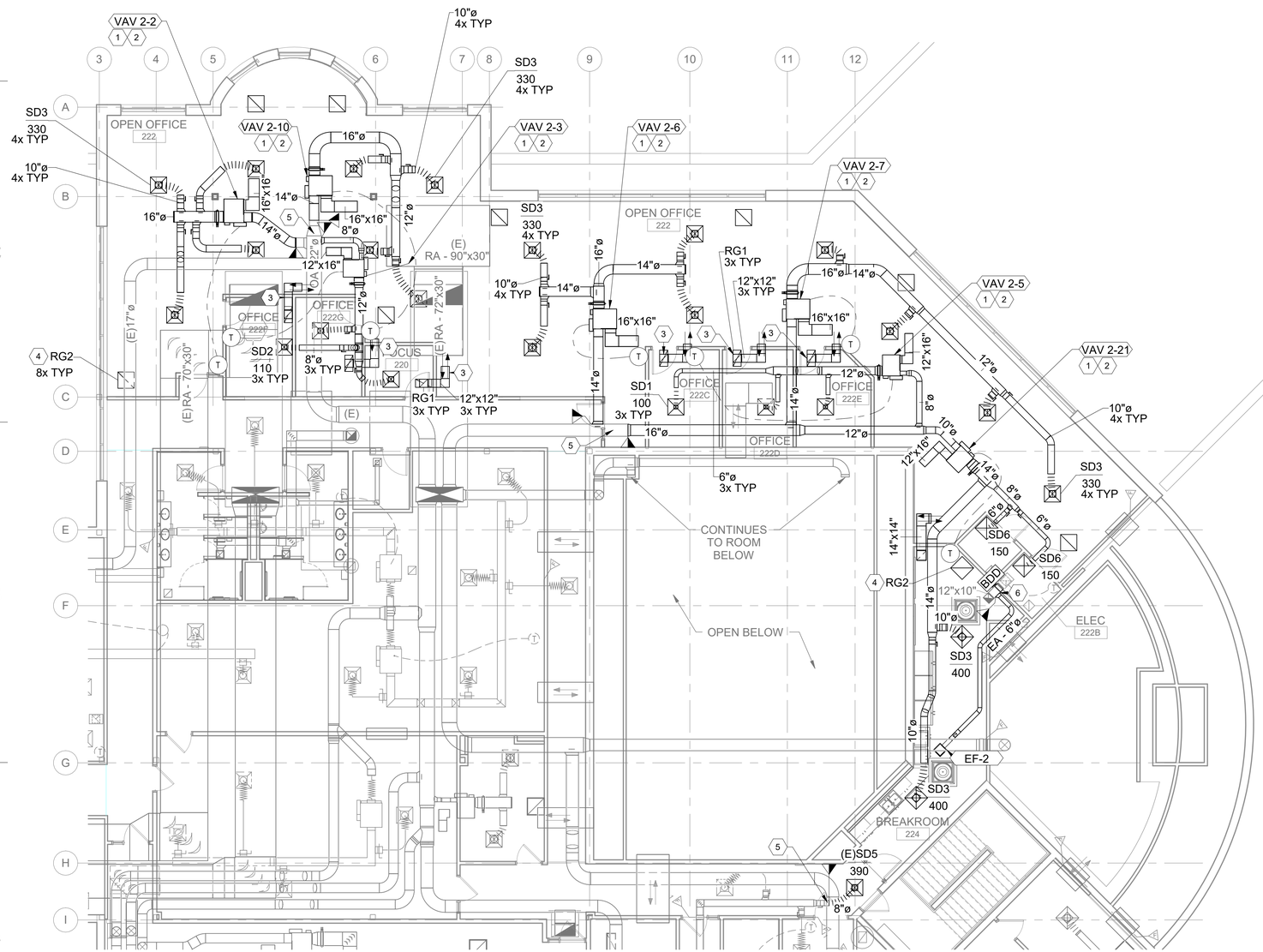

A1 SECOND FLOOR HVAC PLAN

0 4' 8' 16'

N

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GENERAL SHEET NOTES

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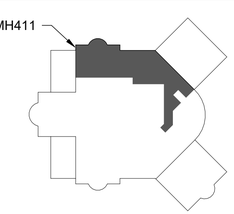
3. THE EXISTING HVAC DUCT WORK AND DAMPERS NOT IDENTIFIED FOR REWORK ARE TO REMAIN IN PLACE DURING CONSTRUCTION. INSTALL TEMPORARY PLUGS OR FILTERS INTO THE BUILDING'S HVAC DUCT SYSTEMS TO PREVENT CONTAMINATE FROM ENTERING INTO THE AIR SYSTEMS.
4. STORE ALL REMOVED DIFFUSER AND GRILLES AS SALVAGED ITEMS IN SAFE LOCATION UNTIL REINSTALLATION OF THE EQUIPMENT. UNUSED DIFFUSERS AND GRILLES ARE NOT TO BE DISPOSED OF UNTIL ALL CONSTRUCTION PHASES ARE COMPLETE.

SHEET KEYNOTES

1. INSTALL NEW VAV BOX AND HOT WATER COILS PER DETAILS C3/M-502 AND C1/M-502. INSTALL WITH THE SALVAGED VAV CONTROLS AND THERMOSTATS.
2. INSTALL RETURN AIR DUCTWORK ON THE VAV RETURN AIR INLET. INSTALL 2" THICK DISPOSABLE FILTER AND FILTER HOUSING IN THE RETURN AIR INTAKE DUCT WORK PER THE VAV UNIT'S SCHEDULE AND DETAIL C3/M-502.
3. INSTALL RETURN DIFFUSER WITH AIR TRANSFER DUCT AS SHOWN ON DRAWING.
4. INSTALL RETURN DIFFUSER WITH RETURN AIR BOOT PER DETAIL B3/M-502.
5. INSPECT, CLEAN, AND REPAIR DUCT SYSTEMS WITHIN 2' OF NEW CONNECTION POINTS PER SPECIFICATION 230130.52.
6. CONNECT NEW EXHAUST DUCT INTO THE EXISTING EXHAUST SYSTEM. INSTALL BACK DRAFT DAMPER IN EXISTING EXHAUST DUCT BETWEEN THE EXISTING AIR INLET IN ELEC 222B AND THE NEW EXHAUST DUCT CONNECTION FOR BREAKROOM 224.

KEYMAP



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NIFC 300-JWH SUITE 222/227 RENOVATIONS
NATIONAL INTERAGENCY FIRE CENTER
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3833 Development Ave, Boise, ID 83405 (208) 387-5512

Sheet Title: ENLARGED HVAC PLANS

Designed by: N FRONGNER
Drawn by: N FRONGNER
Checked by: G TALCIK
Approved by: SBD

Revisions:

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PROFESSIONAL ENGINEER LICENSED 18674 STATE OF IDAHO NATHAN A. FRONGNER

Nathan Frongner
2026.05.08 08:27:14-06'00'
nfrongner@northwindgrp.com

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

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Sheet 52 of 86

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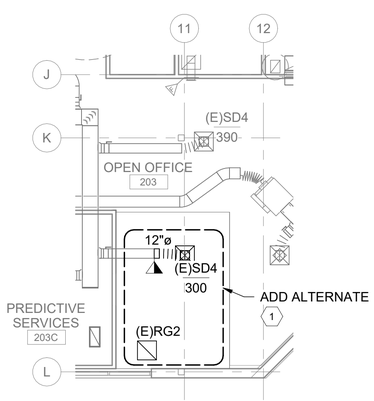

A1 SECOND FLOOR HVAC PLAN

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GENERAL SHEET NOTES

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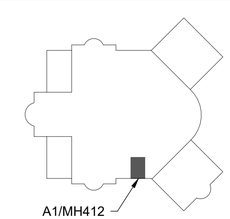
SHEET KEYNOTES

1. WORK IN AREA INCLUDED AS AN ADD ALTERNATE.

KEYMAP



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NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83405 (208) 387-5512

Sheet Title: ENLARGED HVAC PLANS

Designed by: N FRONGNER | Checked by: G TALCIK
Drawn by: N FRONGNER | Approved by: SBD

Revisions:

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Nathan Frongner, P.E.
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nfrongner@northwindgrp.com

BLM Project # 140L062F0116
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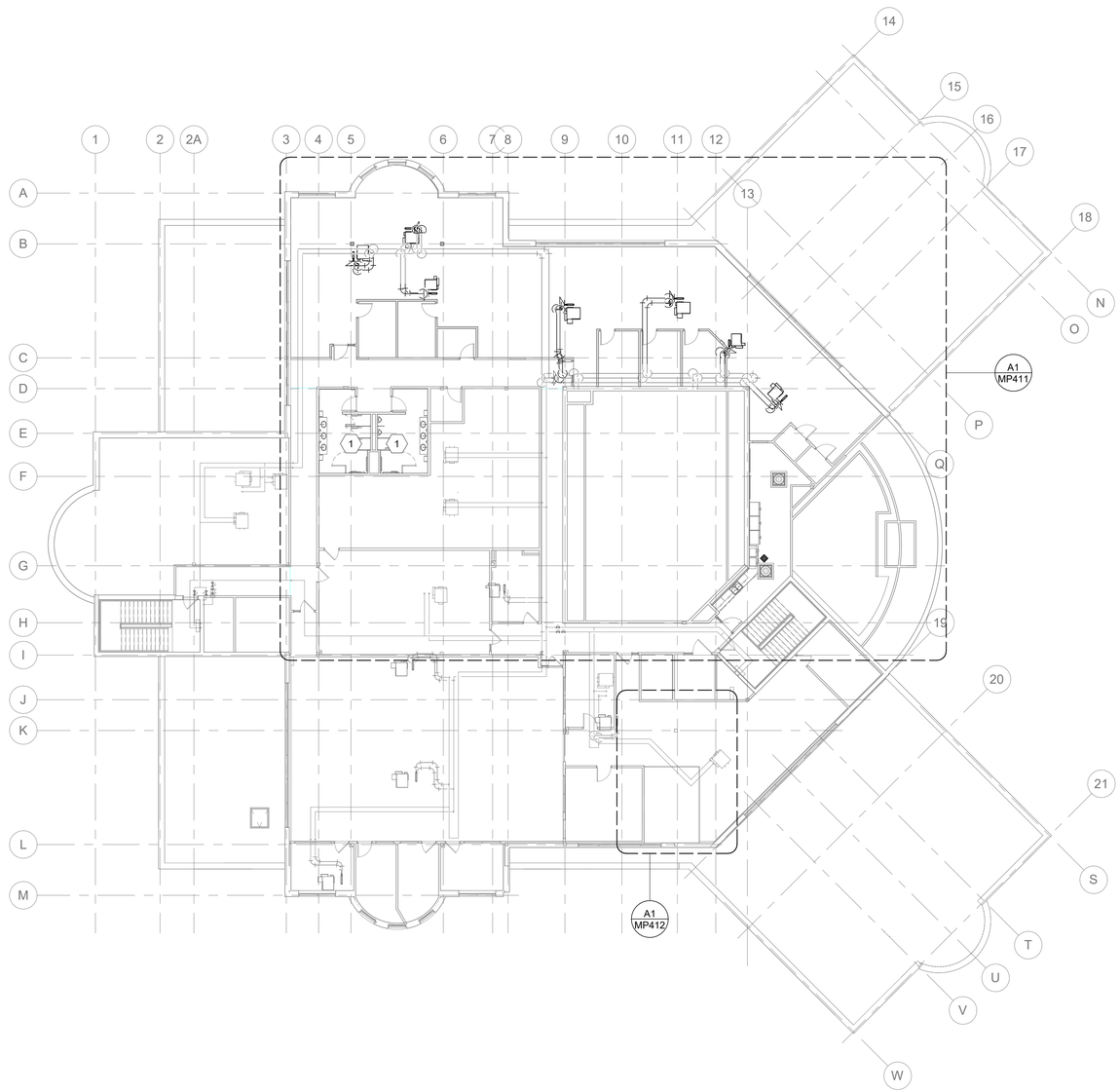
MH412



A1 SECOND FLOOR HYDRONIC OVERALL PLAN

0 8' 16' 32'

N

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GENERAL SHEET NOTES

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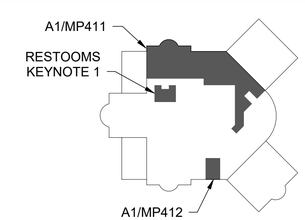
2. ISOLATE AND DEACTIVATE HVAC VAV SYSTEMS IN THE RENOVATION AREAS DURING CONSTRUCTION.
3. UNLESS OTHERWISE STATED, ALL HYDRONIC PIPING SHALL BE 1" COPPER PER SPECIFICATION SECTION 23 21 13. INSULATE PIPING PER SPECIFICATION SECTION 23 07 19.

SHEET KEYNOTES

1. NO INSTALLATION WORK REQUIRED FOR THE HVAC SYSTEMS IN THE RESTROOMS FOR SUITE 222 RENOVATION SCOPE OF WORK.

KEYMAP



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Sheet Title:
SECOND FLOOR HYDRONICS OVERALL PLAN

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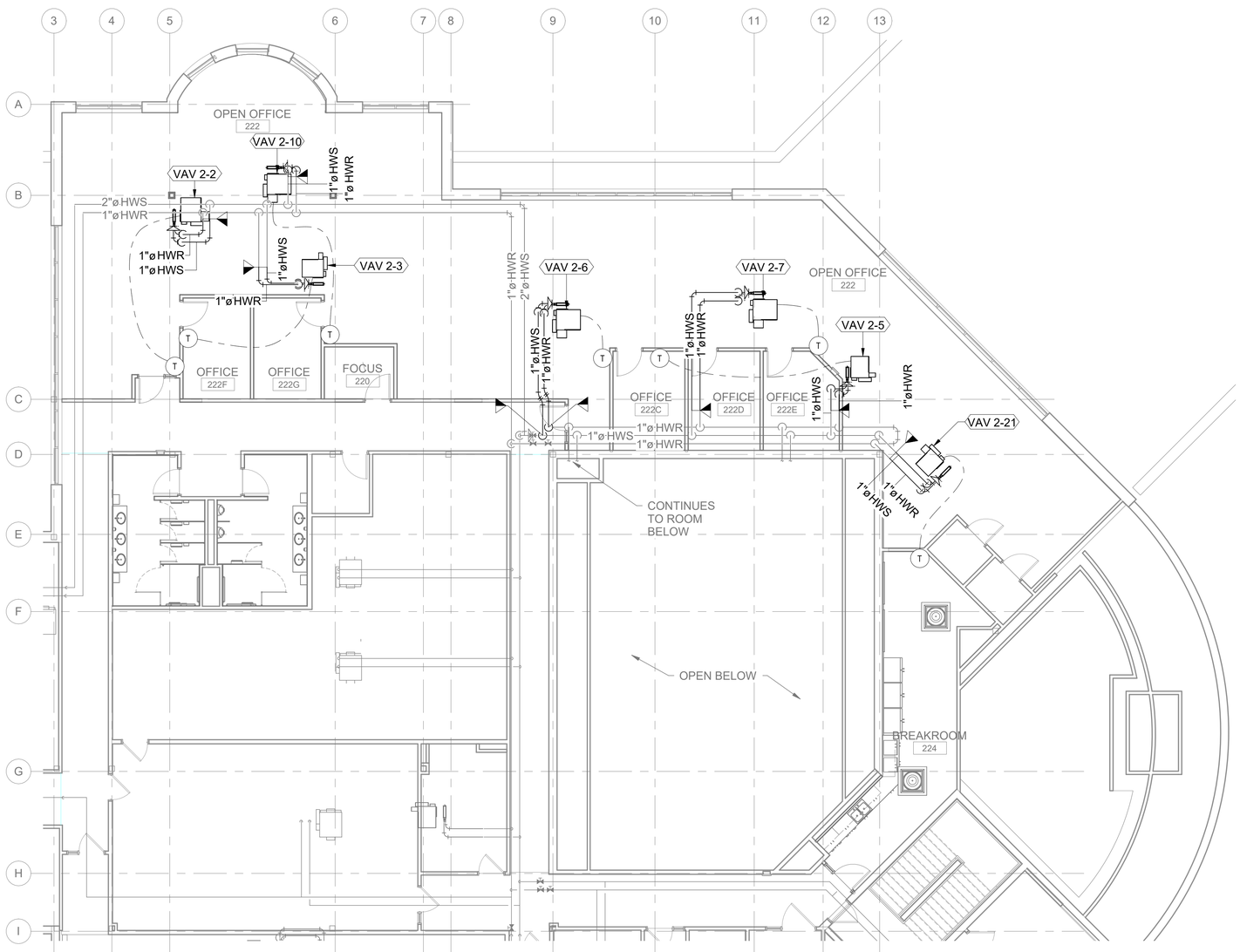
OPEN OFFICE
222
VAV 2-10
VAV 2-2
VAV 2-3
VAV 2-6
VAV 2-7
VAV 2-5
VAV 2-21
OFFICE
222F
OFFICE
222G
FOCUS
220
OFFICE
222C
OFFICE
222D
OFFICE
222E
OPEN OFFICE
222
CONTINUES
TO ROOM
BELOW
OPEN BELOW
BREAKROOM
224
2"ø HWS
1"ø HWR
1"ø HWS
1"ø HWR
1"ø HWR
1"ø HWS
1"ø HWR
1"ø HWS
2"ø HWS
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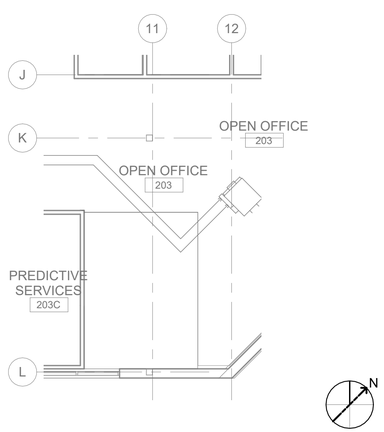

A1 SECOND FLOOR HYDRONIC PLAN

0 4' 8' 16'

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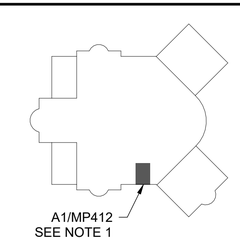
GENERAL SHEET NOTESS

1. NO HYDRONIC INSTALLATION WORK REQUIRED FOR THE HVAC SYSTEMS IN THE EXISTING BREAKROOM CONVERSION TO NEW OFFICE SPACE FOR THE RENOVATION SCOPE OF WORK AS NOTED IN THE KEY PLAN.

KEY PLAN



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Sheet Title:
ENLARGED HYDRONICS PLANS

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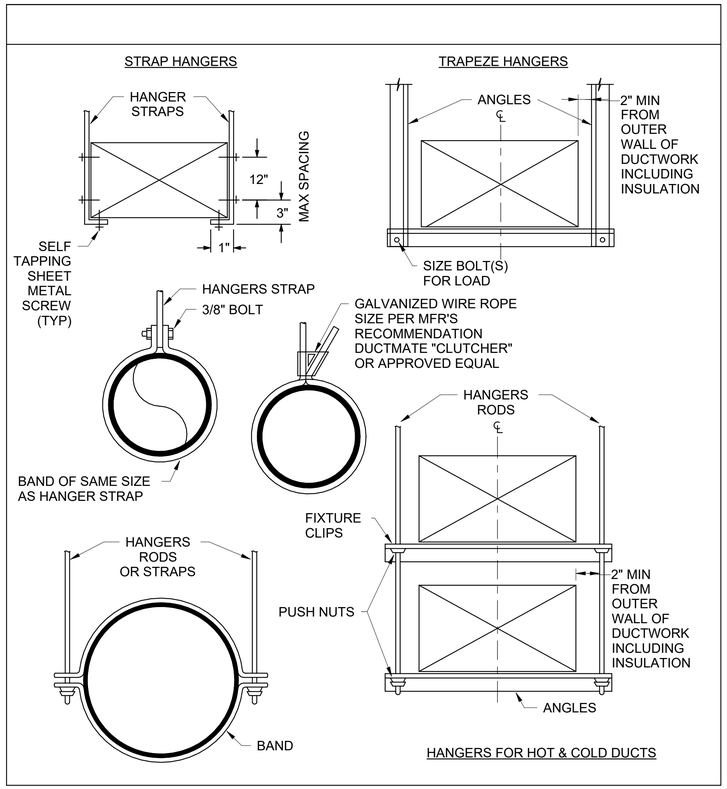
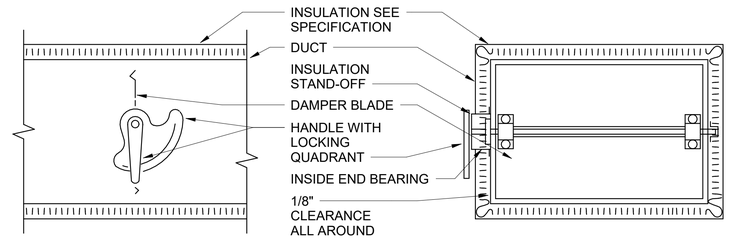
MINIMUM SIZE DUCT HANGERS										
MAX 1/2 DUCT PERIMETER	PAIR AT 10' SPACING		PAIR AT 8' SPACING		PAIR AT 5' SPACING		PAIR AT 4' SPACING		SINGLE HANGER MAX LOAD	
	STRAP	WIRE /ROD	STRAP	WIRE /ROD	STRAP	WIRE /ROD	STRAP	WIRE /ROD	STRAP	WIRE/ROD
P/2 = 30"	1"x 22ga	10 ga	1"x 22ga	10 ga	1"x 22ga	12 ga	1"x 22ga	12 ga	1"x 22ga 260 lbs	12ga - 80 lbs
P/2 = 72"	1"x 18ga	3/8"	1"x 20ga	1/4"	1"x 22ga	1/4"	1"x 22ga	1/4"	1"x 20ga 320 lbs	10ga - 125 lbs
P/2 = 96"	1"x 16ga	3/8"	1"x 18ga	3/8"	1"x 20ga	3/8"	1"x 22ga	1/4"	1"x 18ga 420 lbs	1/4"- 270 lbs
P/2 = 120"	1 1/2"x 16ga	1/2"	1"x 16ga	3/8"	1"x 18ga	3/8"	1"x 22ga	1/4"	1"x 16ga 700 lbs	3/8"- 680 lbs
P/2 = 168"	1 1/2"x 16ga	1/2"	1 1/2"x 16ga	1/2"	1"x 16ga	3/8"	1"x 22ga	3/8"	1 1/2"x 16ga 1100 lbs	1/2"- 1250 lbs
P/2 = 192"	N/A	1/2"	1 1/2"x 16ga	1/2"	1"x 16ga	3/8"	1"x 22ga	3/8"	1"x 22ga 260 lbs	5/8"- 2000 lbs
P/2 = 193" AND UP	SPECIAL ANALYSIS REQUIRED									3/4"- 3000 lbs



MAXIMUM ALLOWABLE LOADS FOR TRAPEZE BARS											
LENGTH	1x1x16ga	1x1x1/8	1 1/2x1 1/2x16ga	1 1/2x1 1/2x1/8	1 1/2x1 1/2x3/16	1 1/2x1 1/2x1/4	2x2x1/8	2x2x3/16	2x2x1/4	2 1/2x2 1/2x3/16	2 1/2x2 1/2x1/4
24"	75	150	180	350	510	650	650	940	1230	1500	1960
30"	70	150	180	350	510	650	650	940	1230	1500	1960
36"	60	130	160	340	500	620	620	920	1200	1480	1940
42"	40	110	140	320	480	610	610	900	1190	1470	1930
48"	-	80	110	290	450	580	580	870	1160	1440	1900
54"	-	-	-	250	400	540	540	840	1120	1400	1860
60"	-	-	-	190	350	490	490	780	1060	1340	1800
72"	-	-	-	-	190	320	320	620	900	1180	1640
84"	-	-	-	-	-	-	-	380	660	940	1400
96"	-	-	-	-	-	-	-	-	320	600	1060

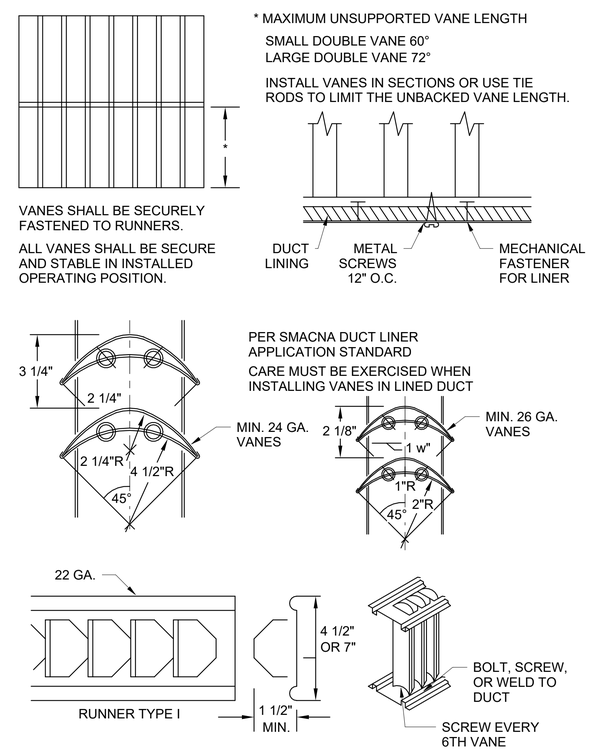
NOTES:
1. SECURE SUPPORT TO STRUCTURE ABOVE AS RECOMMENDED BY SMACNA AND THE IMC.
2. FOLLOW MSS SP-58 FOR SELECTION, MATERIALS, AND FABRICATION OF SUPPORTS. TRAPEZE HANGERS SHALL BE TYPE 59, SHOP- OR FIELD-FABRICATED PIPE-SUPPORT ASSEMBLY MADE FROM STRUCTURAL CARBON-STEEL SHAPES WITH MSS SP-58 CARBON-STEEL HANGER RODS, NUTS, SADDLES, AND U-BOLTS
3. ALL SUPPORT MATERIALS SHALL BE COMPATIBLE WITH SYSTEM MATERIALS.
4. IF DUCT SUPPORT IS DIRECT CONTACT DUCTWORK THAT REQUIRES INSULATION, APPLY INSULATION TO THE SUPPORT WHEN THE SUPPORT IS IN CONTACT WITH THE DUCTWORK AND APPLY INSULATION THE SUPPORT A MINIMUM DISTANCE OF 6" AWAY FROM CONNECTION POINT TO THE DUCTWORK.

A1 HANGERS FOR DUCTS

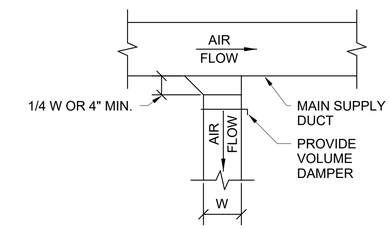


NOTE:
1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

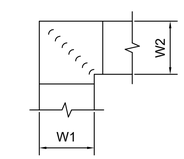
C3 VOLUME DAMPER DETAIL



A3 TURNING VANES DETAIL

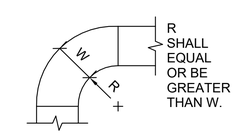


C5 SUPPLY DUCT TAKEOFFS



NOTE:
1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
2. IF W2 DOES NOT EQUAL W1 SPECIAL PROVISIONS MUST BE MADE IN VANE SHAPE OR ANGLE TO ALL TYPES OF VANES.
3. CONSTRUCT VAN EDGES TO PROJECT TANGENTS PARALLEL TO DUCT SIDES.
4. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" RADIUS, 1 1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING EDGE.
5. WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" VANES SHALL BE DOUBLE VANE TYPE.

B5 DUCTWORK SQUARE VANE ELBOWS



STANDARD RADIUS OR LONG RADIUS ELBOW

NOTES:

1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.

A5 DUCTWORK RADIUS ELBOWS

ALWAYS THINK SAFETY

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NATIONAL SYSTEM OF PUBLIC LANDS
U.S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

NIFC 300-JWH SUITE 222/227 RENOVATIONS
NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83405 (208) 387-5512

Sheet Title: DETAILS

Designed by: N FRONGNER | Checked by: G TALCIK
Drawn by: N FRONGNER | Approved by: SBD

Revisions:

#	Description	Date
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PROFESSIONAL ENGINEER LICENSED 18674 STATE OF IDAHO NATHAN J. FRONGNER
Nathan Frongner, P.E. 3025-05-08 08:27:55-06'00' nfrongner@northwindgrp.com

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

M-501

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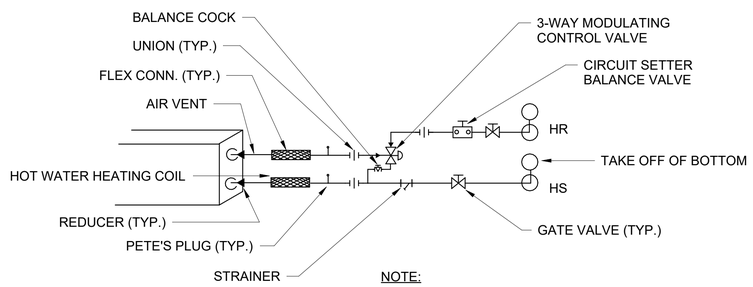
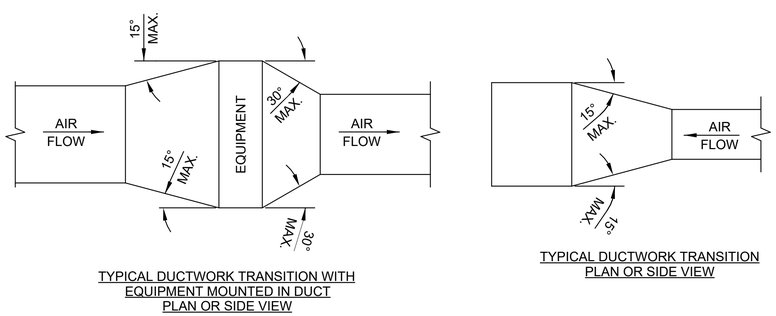


NOTE:
VERIFY COIL PIPING W/ CONTROLS CONTRACTOR PROVIDE FOR A VALVE FAILURE TO FULL HEATING POSITION.

C1 3-WAY COIL PIPING DETAIL

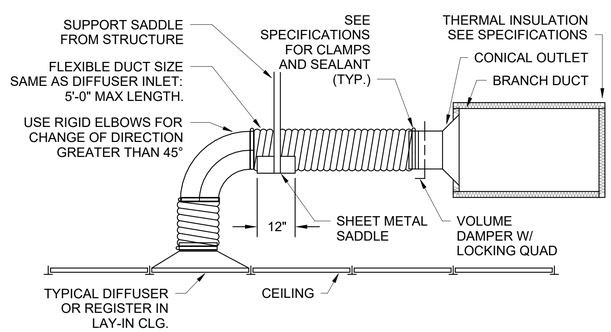


TYPICAL DUCTWORK TRANSITION WITH EQUIPMENT MOUNTED IN DUCT PLAN OR SIDE VIEW

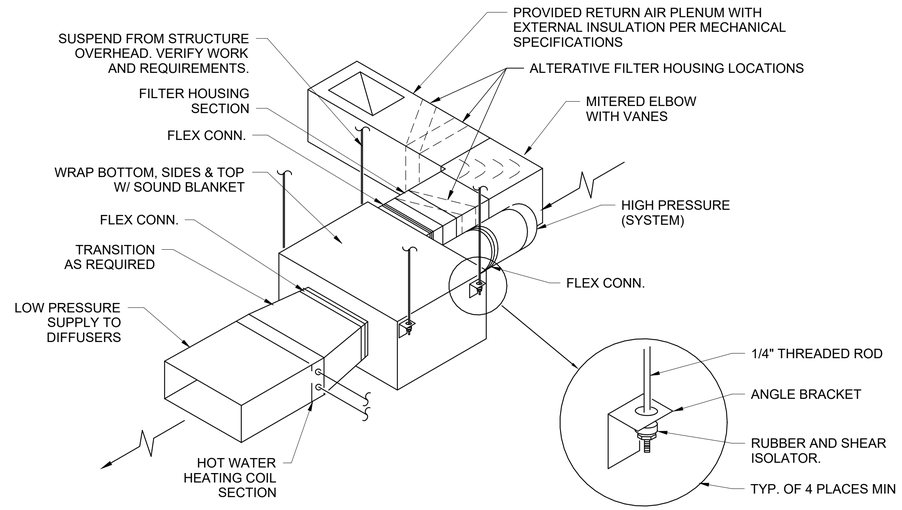
TYPICAL DUCTWORK TRANSITION PLAN OR SIDE VIEW

NOTE:
UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

B1 DUCTWORK TRANSITIONS



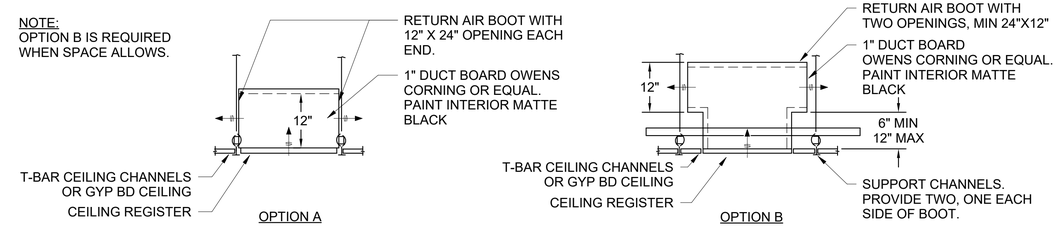
A1 FLEXIBLE AIR DUCT CONNECTOR



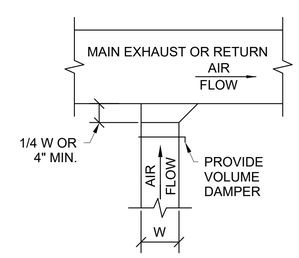
NOTES:
1. FILTERS ARE TO BE ACCESSIBLE. NO PIPING, DUCT OR CONDUIT TO CROSS IN FRONT OF ACCESS DOOR. COORDINATE W/ ALL TRADES. FILTER ACCESS DOOR SHALL BE ORIENTED TO BE ON THE SIDE OR BOTTOM OF THE DUCT.
2. ALL DUCTWORK SHALL BE INSULATED ON THE EXTERIOR OF THE DUCT.

C3 FAN POWERED VAV BOX DETAIL

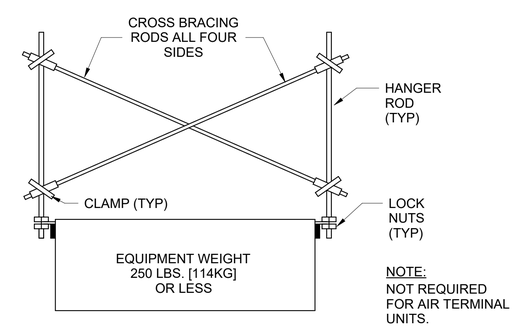
NOTE:
OPTION B IS REQUIRED WHEN SPACE ALLOWS.



B3 CEILING REGISTER RETURN BOOT DETAIL



A3 EXHAUST OR RETURN BRANCH DUCTWORK



NOTE:
NOT REQUIRED FOR AIR TERMINAL UNITS.

A4 SEISMIC BRACING FOR EQUIPMENT

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nfrongner@northwindgrp.com

BLM Project # 140L062F0116
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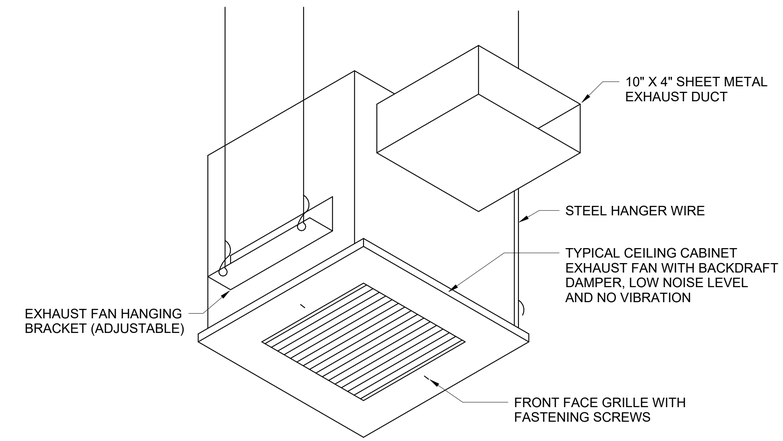
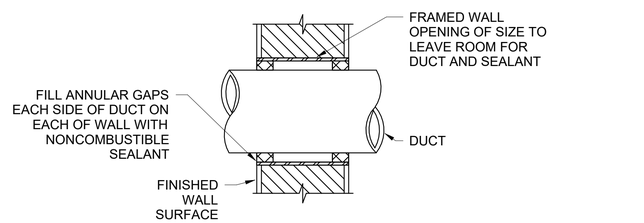
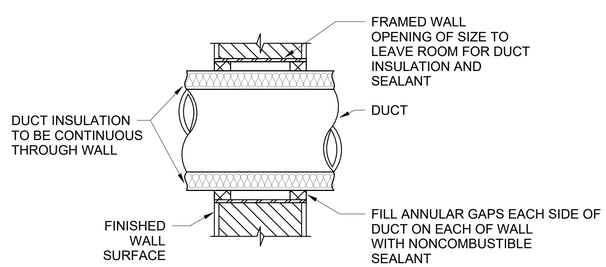


C4 CEILING MOUNTED CABINET EXHAUST FAN DETAIL



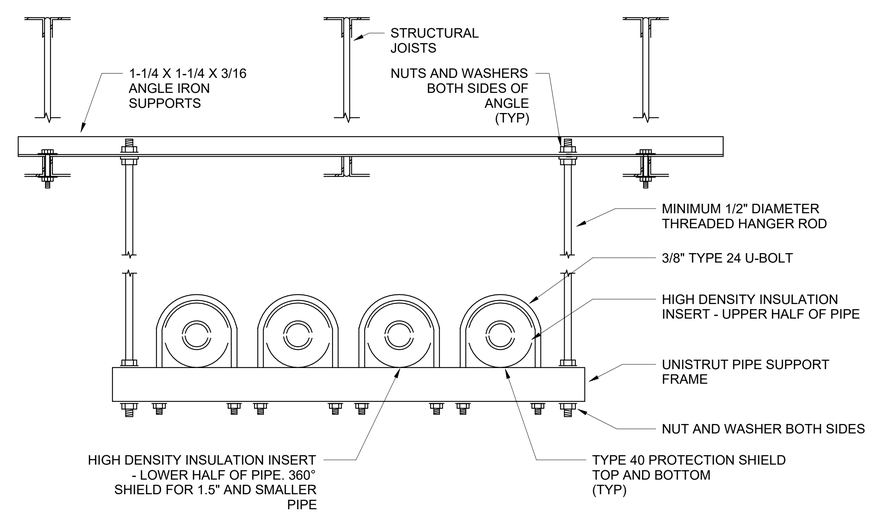
UNINSULATED DUCT THROUGH INTERIOR NON-RATED WALLS



INSULATED DUCT THROUGH INTERIOR NON-FIRE WALLS

NOTE:
1. USE 3M™ FIRE BARRIER SEALANT CP 25WB+ OR ENGINEERING APPROVED EQUIVALENT UNLESS OTHERWISE NOTED ON DRAW DRAWING.

A2 DUCT PENETRATION DETAILS



A4 HORIZONTAL PIPE SUPPORT DETAILS

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AIR TERMINAL FAN BOX UNITS

MARK	SERVICED ROOMS	AIR HANDLER UNIT	INLET SIZE (IN)	SA FLOW (CFM)	MIN FLOW (CFM)	RETURN AIR DUCTWORK		HEATING COIL								ELECTRICAL					REMARKS
						DUCT SIZE	MIN FILTER SIZE	EWT (°F)	GPM	ROW	PD (PSI)	AIR PD (IN-WG)	BTU	EAT (°F)	LAT (°F)	V	PH	HZ	MCA	MOCP	
VAV 2-2	222	AHU-2	14	1320	190	16"x16"	16"x25"x2"	180	3.3	2	3.05	0.32	66000	68	108	277	1	60	3.5	15	1,2,3,4,5,6
VAV 2-3	220,222F,222G	AHU-2	6	330	80	16"x12"	16"x12"x2"	180	0.8	2	0.17	0.10	16500	68	108	277	1	60	2.1	15	1,2,3,4,5,6
VAV 2-5	222C,222D,222E	AHU-2	6	300	80	16"x12"	16"x12"x2"	180	0.7	2	0.17	0.10	15000	68	108	277	1	60	2.1	15	1,2,3,4,5,6
VAV 2-6	222	AHU-2	14	1320	190	16"x16"	16"x25"x2"	180	3.3	2	3.05	0.32	58000	68	108	277	1	60	3.5	15	1,2,3,4,5,6
VAV 2-7	222	AHU-2	14	1320	190	16"x16"	16"x25"x2"	180	3.3	2	3.05	0.32	58000	68	108	277	1	60	3.5	15	1,2,3,4,5,6
VAV 2-10	222	AHU-2	14	1320	190	16"x16"	16"x25"x2"	180	3.3	2	3.05	0.32	66000	68	108	277	1	60	3.5	15	1,2,3,4,5,6
VAV 2-21	202,222A,222B	AHU-2	10	860	200	16"x16"	16"x16"x2"	180	2.1	2	1.30	0.16	43000	68	108	277	1	60	4.0	15	1,2,3,4,5,6

SCHEDULE NOTES:
1. VAV SIZES BASED ON SIZES OF EXISTING UNITS.
2. INCLUDE ECM FAN MOTORS.
3. VAV SHALL BE COMPATIBLE WITH EXISTING DDC CONTROL SYSTEM.
4. BASIS OF DESIGN: PRICE FDV PARALLEL FLOW FAN POWERED TERMINAL UNIT AND COMPARABLE WATER COILS.
5. LOCATE HOT WATER COILS ON VAV DISCHARGE OUTLET TO MATCH EXISTING SYSTEM CONFIGURATION.
6. PROVIDE 2" PLEATED MERV 8 FILTER IN RETURN DUCT SYSTEM WITH REPLACEMENT ACCESS FROM THE BOTTOM OR SIDE OF THE VAV OR RETURN DUCT.

AIR TERMINAL SCHEDULE

MARK	TYPE	MOUNT	SIZE	CONNECTION	QTY	SALVAGED	REMARKS
(E)RG2	RETURN GRILLE	LAY IN	24"x24"	22"x22"	1	Yes	5
(E)SD4	SUPPLY DIFFUSER	LAY IN	24"x24"	12"x12"	1	Yes	5
(E)SD5	SUPPLY DIFFUSER	LAY IN	24"x24"	9"x9"	1	Yes	5
RG1	RETURN GRILLE	LAY IN	24"x12"	12"x12"	6	No	2,3,4
RG2	RETURN GRILLE	LAY IN	24"x24"	22"x22"	10	No	2,4
SD1	SUPPLY DIFFUSER	LAY IN	24"x24"	6"x6"	3	No	1,4
SD2	SUPPLY DIFFUSER	LAY IN	24"x24"	8"x8"	3	No	1,4
SD3	SUPPLY DIFFUSER	LAY IN	24"x24"	10"x10"	17	No	1,4
SD4	SUPPLY DIFFUSER	LAY IN	24"x24"	12"x12"	1	No	1,4
SD6	SUPPLY DIFFUSER	SURFACE MOUNT	24"x24"	6"ø	2	No	4,6

SCHEDULE NOTES:
1. DIFFUSER DESIGN BASIS - TITUS-HVAC SERIES MCD. 1 TO 4 WAY MODULAR CORES. PROVIDE SQUARE TO ROUND TRANSITION.
2. GRILLE DESIGN BASIS - TITUS-HVAC SERIES 50F.
3. INCLUDE REDUCER TO 12"X12" DUCT CONNECTION.
4. COLOR WHITE.
5. REINSTALL SALVAGED DIFFUSER/GRILLE WILL ORIGINAL ACCESSORIES.
6. BASIS OF DESIGN - TITUS-HVAC SERIES T3SQ. PROVIDE THERMAL ACTUATING CONTROL, CLOSED WHEN IN HEATING MODE.

EXHAUST FAN SCHEDULE

MARK	EXHAUST (CFM)	ESP (IN-WC)	POWER					REMARKS
			V	PH	HZ	MCA	MOCP	
EF-2	50	0.25	120	1	60	0.9	15	1,2,3

FAN SCHEDULE NOTES:
1. BASIS OF DESIGN: GREENHECK SP SERIES FAN.
2. INCLUDE OCCUPANCY SENSOR FOR FAN ACTIVATION. FAN TO SHUT OFF AFTER 5 MINUTES OF INACTIVITY WITH THE OCCUPANCY SENSOR.
3. INCLUDE BACKDRAFT DAMPER ON EXHAUST FAN.

BUILDING 300 SEQUENCE OF OPERATION

THROUGH EXISTING SUPERVISORY CONTROLLER, CONTROL CONTRACTOR SHALL MIGRATE ALL AVAILABLE CONTROLS POINTS FROM EXISTING CONTROLLERS INTO THE EXISTING BAS CONTROLS UI.

CONTROL CONTRACTOR SHALL ADJUST AND BIND ALL GRAPHICS AS NECESSARY TO REFLECT NEW AND EXISTING SYSTEM LAYOUT AND WITH CURRENT FLOOR PLAN.

CONTROL CONTRACTOR SHALL ADD TRENDS ON ALL CONTROL POINTS THAT SHALL BE RE-POSITORIED INTO SERVER FOR LONG TERM STORAGE.

CONTROL CONTRACTOR SHALL ASSIST THE TEST AND BALANCE CONTRACTOR IN BALANCING FOR REPAIR AND RENOVATIONS.

THE OCCUPIED/UNOCCUPIED MODES WILL BE SCHEDULED FROM THE OPERATOR WORKSTATION.

OCCUPIED T-STAT SETPOINTS -
HEATING UP TO 70 °F(ADJ)
COOLING DOWN TO 75 °F(ADJ)
UNOCCUPIED T-STAT SETPOINTS -
HEATING UP TO 55 °F(ADJ)
COOLING DOWN TO 85 °F(ADJ).
LOCAL TEMPERATURE ADJUSTMENT RANGE SHALL BE +/-2.5 °F.

CONTROL CONTRACTOR TO SALVAGE AND REUSE JCI CONTROLLER FROM UNITS VAV 2-2, 2-3, 2-4, 2-5, 2-6, 2-7, 2-10, AND 2-21. VERIFY VAV BOX SEQUENCE OF OPERATION IS CORRECT FOR THE EXISTING BUILDING DDC SYSTEM.

VAV BOX CONTROLLERS SHALL BE RE-CONNECTED IN A DAISY CHAIN TO EXISTING BACNET MSTP COMMUNICATIONS TRUNK IN BUILDING 300, UTILIZING EXISTING JOHNSON CONTROLS MS-NAE5510-1 SUPERVISORY CONTROLLER RUNNING NEW COMMUNICATION CABLE AND ADDING REPEATERS AS NECESSARY TO MAKE CONNECTION.

CONTRACTOR TO SALVAGE HW CONTROL VALVE FOR VAV 2-2, 2-3, 2-4, 2-5, 2-6, 2-7, 2-10, AND 2-21 TO CONNECT REPLACEMENT VAV BOX. CONTRACTOR SHALL VERIFY THE HW VALVES ARE FULL OPERABLE AND HAVE FULL RANGE OF MOTION. IF VALVE IS MALFUNCTIONING, CONTRACTOR SHALL REPAIR VALVE TO LIKE NEW CONDITION OR PROVIDE AN IN KIND REPLACEMENT VALVE OR APPROVED EQUIVALENT.

THE POINT LIST FOR NEW CONTROLLERS SHALL INCLUDE, AT A MINIMUM ALL MATCHING CONTROL POINTS FOR THE NEW VAV BOXES.

CONTROL CONTRACTOR SHALL ADJUST OR REBIND ALL GRAPHICS AS NECESSARY TO REFLECT RENOVATION FLOOR PLAN LAYOUT AND VAV BOX LAYOUT. CONTROL CONTRACTOR SHALL ADD TRENDS ON ALL CONTROL POINTS THAT SHALL BE RE-POSITORIED INTO SERVER FOR LONG TERM STORAGE.

CONTROL CONTRACTOR SHALL FULLY COMMISSION ALL CONTROLLERS, HEATING WATER CONTROL VALVES AND ASSIST THE TEST AND BALANCE CONTRACTOR IN BALANCING FOR THE RENOVATED SPACE.

CONTROL CONTRACTOR SHALL DELETE POINTS FROM REMOVED CONTROLLERS FROM BUILDING 300 BAS SYSTEM.

CONTROL CONTRACTOR'S AS BUILT SUBMITTAL PACKAGE SHALL INCLUDE LOCATION AND ROUTING OF ALL NEW COMMUNICATION CABLE.

ALL NEW BACNET MSTP COMMUNICATION CABLE SHALL BE RUN IN CONDUIT COORDINATE WITH DIVISION 26 ELECTRICAL. CONDUIT SHALL BE RATED FOR INSTALLATION IN A RETURN AIR PLENUM, CONDUIT IN RETURN AIR PLENUMS MUST BE 25 OR LESS FLAME SPREAD INDEX AND SMOKE DEVELOPED INDEX (SDI) 50 OR LESS.

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FAN POWERED VAV CONTROL SEQUENCE

THE OCCUPIED / UNOCCUPIED MODES WILL BE SCHEDULED FROM THE OPERATOR WORKSTATION TO SHALL BE OCCUPIED MONDAY - FRIDAY 6AM - 6PM (ADJ).

OCCUPIED CYCLE FOR VAV DAMPER AND VALVE OPERATION-

FAN POWERED VAV UNITS 2-2, 2-3, 2-4, 2-5, 2-6, 2-7, 2-10, AND 2-21 SHALL START 30 SECONDS BEFORE RTU AIR HANDLER STARTS IN THE OCCUPIED MODE.

DURING OCCUPIED, THE FAN RUNS CONTINUOUSLY TO PROVIDE CONSTANT VOLUME TOTAL AIRFLOW.

VAV CONTROLLER SHALL MODULATE THE SUPPLY AIR DAMPER TO MAINTAIN AIRFLOW SETPOINTS. WHEN EXCEEDING ZONE COOLING SETPOINT, THE DAMPER SHALL MODULATE UP TO MAXIMUM AIRFLOW AND COOL THE SPACE. THE VAV DAMPER SHALL MODULATE TO MINIMUM AIRFLOW WHEN BELOW THE COOLING SETPOINT.

WHEN ZONE TEMPERATURE IS LESS THAN COOLING SETPOINT, ZONE DAMPER SHALL MAINTAIN MINIMUM AIRFLOW.

THE CONTROLLER SHALL MODULATE THE HEATING COIL VALVE OPEN ON DROPPING ZONE TEMPERATURE TO MAINTAIN HEATING SETPOINT WITH MINIMUM AIRFLOW. WHEN ABOVE THE HEATING SETPOINT MODULATE THE HEATING VALVE CLOSED.

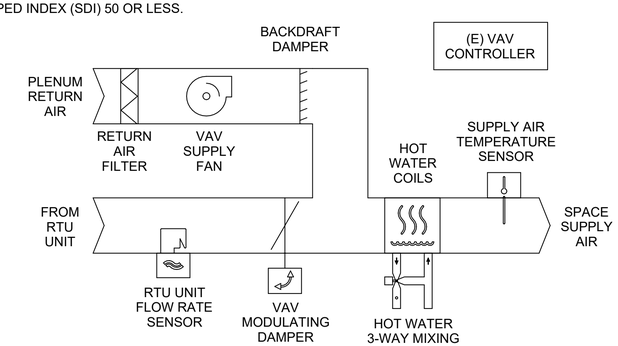
UNOCCUPIED CYCLE FOR VAV DAMPER AND VALVE OPERATION -

DURING UNOCCUPIED HEATING, THE AHU REMAINS OFF AND THE VAV DAMPERS REMAIN CLOSED. THE VAV FAN CYCLES ON AND THE HEATING VALVE MODULATES PER THE OCCUPIED HEATING SEQUENCE TO MAINTAIN THE UNOCCUPIED HEATING SETPOINT

DURING UNOCCUPIED COOLING, WHEN ANY ZONE TEMPERATURE RISES ABOVE THE UNOCCUPIED COOLING SETPOINT, THE AHU CYCLES ON, AND THE VAV FANS AND VAV DAMPERS OPERATE PER THE OCCUPIED COOLING SEQUENCE TO MAINTAIN THE UNOCCUPIED COOLING SETPOINT.

DURING UNOCCUPIED PERIOD, WHEN ANY VAV TERMINAL UNIT THERMOSTAT OVERRIDE BUTTON IS ACTIVATED BY THE OCCUPANT, ALL VAV TERMINAL UNITS ASSOCIATED WITH THAT RTU AIR HANDLER SHALL ENTER OCCUPIED MODE FOR A THREE HOUR PERIOD. PROVIDE ABILITY FOR GOVERNMENT TO DEACTIVATE THE INDIVIDUAL OVERRIDE BUTTON IN SOFTWARE.

PROVIDE BUILDING WARM UP SEQUENCE PRIOR TO TIMED OCCUPANCY CYCLE. PROVIDE A 30 MINUTE WARM UP OR MAINTAIN THE EXISTING WARM UP TIME SETPOINT.



A4 VAV SYSTEM DIAGRAM AND CONTROL SEQUENCE

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ELECTRICAL LEGEND (NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS SHOWN ARE USED ON THESE DRAWINGS)

-GENERAL-

SYMBOL	DESCRIPTION
	CONDUIT AND/ OR WIRE CONCEALED IN WALL OR ABOVE CEILING EXCEPT IN EXPOSED STRUCTURE AREAS
	CONDUIT BREAK SYMBOL
	CONDUIT STUB UP OR DOWN
J	JUNCTION BOX
PW	POWER WHIP
S S_3 S_4 S_D S_V	SWITCH SYMBOLS, MOUNTED AT +48" TO CENTER UNO SINGLE POLE (IF BLANK) 3=THREE-WAY 4=FOUR-WAY D=DIMMER V=VACANCY SENSOR
	QUADRUPLEX RECEPTACLE MOUNTED AT +18" TO CENTER UNO
	DUPLEX RECEPTACLE MOUNTED AT +18" TO CENTER UNO
	GFCI RECEPTACLE MOUNTED AT +18" TO CENTER UNO
AC	DUPLEX RECEPTACLE INSTALLED ABOVE COUNTER
CUB	CUBICLE DUPLEX RECEPTACLE
CTR	CONTROLLED DUPLEX RECEPTACLE
IG	DUPLEX RECEPTACLE WITH ISOLATED GROUND
UC	DUPLEX RECEPTACLE INSTALLED UNDER COUNTER

-GRAPHIC SYMBOLS-

SYMBOL	DESCRIPTION
	HATCHED ITEMS INDICATE EQUIPMENT TO BE DISCONNECTED OR REMOVED
1	KEY NOTE
	DASHED EQUIPMENT INDICATES ITEM(S) TO BE REMOVED
N	NORTH ARROW
1 E102	DETAIL BUBBLE DETAIL NUMBER SHEET NO. - WHERE DETAIL IS SHOWN
A E102	SECTION CUT SECTION LETTER SHEET NO. - WHERE DETAIL IS SHOWN

-LIGHTING-

SYMBOL	DESCRIPTION
X X	2'x4' LED LUMINARIES X=LUMINAIRE ID (REFER TO LUMINAIRE SCHEDULE) SHADING INDICATES LUMINAIRE WITH NIGHTLIGHTING CAPABILITIES
X	LED WALL MOUNTED LUMINARIES X=LUMINAIRE ID (REFER TO LUMINAIRE SCHEDULE)
OS	OCCUPANCY SENSOR
	DAYLIGHTING ZONE
DS X	PHOTOCELL FOR DAYLIGHTING P = PRIMARY ZONE S = SECONDARY ZONE
	EXIT LIGHT (WITH FACES & DIRECTION ARROWS INDICATED)
	WALL MOUNTED EXIT LIGHT (WITH FACES & DIRECTION ARROWS INDICATED)

-TELECOM DEVICES-

SYMBOL	DESCRIPTION
▽	2 PORT DATA FACEPLATE MOUNTED AT +18 TO CENTER UNO.
▼	2 PORT TELE FACEPLATE MOUNTED AT +18 TO CENTER UNO.
$▽_4$	4 PORT DATA FACEPLATE MOUNTED AT +18 TO CENTER UNO.
$▽_{CUB}$	CUBICLE 2 PORT DATA
S	CEILING MOUNTED SPEAKER
CR	CARD READER
AP	CEILING MOUNTED WIRELESS ACCESS POINT
TV	TELEVISION OUTLET 2 PORT FACEPLATE WITH 1 DATA OUTLET AND DUPLEX RECEPTACLE

-ABBREVIATIONS-

(E)	EXISTING	MCB	MAIN CIRCUIT BREAKER
(N)	NEW	MCM	THOUSAND CIRCULAR MILS
(D)	DEMO	MLO	MAIN LUGS ONLY
(PART)	PARTIAL CIRCUIT	MTS	MANUAL TRANSFER SWITCH
+XX	MOUNTING HEIGHT IN INCHES. AFF UNO	N	NEUTRAL
A	AMP	NC	NORMALLY CLOSED
AC	ABOVE COUNTER TOP	NEC	NATIONAL ELECTRIC CODE
AF	AMP FRAME	NIC	NOT IN CONTRACT
AFC	ABOVE FINISHED COUNTER	NL	NIGHT LIGHT
AFF	ABOVE FINISHED FLOOR	NO	NORMALLY OPEN
AFG	ABOVE FINISHED GRADE	P	POLE
AHJ	AUTHORITY HAVING JURISDICTION	PB	PULL BOX
AIC	AMPS INTERRUPTING CAPACITY	PNL	PANEL
AS	AMPS SENSOR	PWR	POWER
AT	AMP TRIP	RCPT	RECEPTACLE(S)
BFG	BELOW FINISHED GRADE	SBC	STRANDED BARE COPPER
C	CONDUIT	SDBTC	SOFT DRAWN BARE TINNED COPPER
CB	CIRCUIT BREAKER	T	TRANSFORMER
CKT	CIRCUIT	TEL	TELEPHONE
CLG	CEILING	TTB	TELEPHONE TERMINAL BOARD
CONT	CONTINUED	TV	TELEVISION
CSC	CEILING SECURITY CAMERA	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
EF	EXHAUST FAN	TYP	TYPICAL
EGB	ELECTRICAL GROUND BUSBAR	UF	UNDERFLOOR
EGC	ELECTRODE GROUNDING CONDUCTOR	UG	UNDERGROUND
ELEC	ELECTRIC	UNO	UNLESS NOTED OTHERWISE
ELEV	ELEVATION	UPS	UNINTERRUPTIBLE POWER SUPPLY
EM	EMERGENCY	V	VOLTAGE
FA	FIRE ALARM	VFD	VARIABLE FREQUENCY DRIVE
FACP	FIRE ALARM CONTROL PANEL	WG	WIRE GUARD
FLR	FLOOR	WP	WEATHERPROOF
FLUOR	FLUORESCENT	WSC	WALL MOUNT SECURITY CAMERA
G	GROUND (EQUIPMENT)	XFMR	TRANSFORMER
GEN	GENERATOR		
GFCI	GROUND FAULT CIRCUIT INTERRUPTER		
GFI	GROUND FAULT CIRCUIT INTERRUPTER		
GND	GROUND (EQUIPMENT)		
HP	HORSEPOWER		
HV	HIGH VOLTAGE		
IC	INTERRUPTING CAPACITY		
IG	ISOLATED GROUND		
JB	JUNCTION BOX		
K	THOUSAND		
LTG	LIGHTING		
LTS	LIGHTS		
LV	LOW VOLTAGE		

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GENERAL ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH LOCAL BUILDING CODES AND THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (NEC).
2. REFERENCE SPECIFICATIONS FOR CONSTRUCTION MATERIALS AND INSTALLATION PROCEDURES. SPECIFICATIONS ARE A PART OF THE CONSTRUCTION DOCUMENTS. SHOULD ANY CONFLICT ARISE BETWEEN THE DRAWINGS AND SPECIFICATIONS, SUCH CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE GOVERNMENT FOR RESOLUTION.
3. THESE DRAWINGS ARE DIAGRAMMATIC IN CHARACTER AND DO NOT NECESSARILY SHOW MATERIALS FOR A COMPLETE INSTALLATION.
4. ALL PENETRATIONS THROUGH FIRE SEPARATION WALLS ARE TO BE SEALED TO MAINTAIN SEPARATION RATING.
5. PENETRATIONS THROUGH SECURITY RATED WALLS AND FLOORS SHALL BE PROTECTED PER PROJECT REQUIREMENTS.
6. JUNCTION BOXES FOR LUMINARIES ARE NOT INDICATED HERE ON. PROVIDE THE PROPER NUMBER OF J-BOXES TO MEET LOCAL CODE AND NATIONAL ELECTRICAL CODE.
7. LIGHT SWITCHES SHALL BE MOUNTED 48 INCHES ABOVE FINISHED FLOOR TO CENTERLINE OF DEVICE, UNLESS OTHERWISE NOTED.
8. RECEPTACLES SHALL BE LOCATED 18 INCHES ABOVE THE FINISHED FLOOR TO CENTERLINE OF THE DEVICE, UNLESS OTHERWISE NOTED. ABOVE COUNTER RECEPTACLES SHALL BE MOUNTED 6 INCHES ABOVE THE BACK SPLASH TO THE CENTERLINE OF THE DEVICE.
9. WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NEC.
10. PANELBOARD OR SWITCHBOARD DEDICATED SPACE FROM FLOOR TO STRUCTURAL CEILING SHALL BE CLEAR OF PIPING, DUCTS, EQUIPMENT, ETC. NOT ASSOCIATED WITH THE IMMEDIATE EQUIPMENT IN ACCORDANCE WITH NEC 408.
11. ALL EQUIPMENT MOUNTED OVERHEAD OR ABOVE SUSPENDED CEILINGS WEIGHING 30 POUNDS OR MORE MUST BE SECURED TO A PERMANENT STRUCTURE BY MEANS OF HAVING SUFFICIENT CAPACITY TO RESIST HORIZONTAL FORCES OF 0.5 TIMES THE EQUIPMENT WEIGHT AND VERTICAL FORCES OF 1.5 TIMES THE EQUIPMENT WEIGHT.
12. DRAWINGS ARE PRINTED IN ANSI D SIZE. IF DRAWINGS ARE NOT 22" X 34", USE SCALES ACCORDINGLY.
13. MINIMUM WIRE SIZE IS 12 AWG UNLESS NOTED OTHERWISE.
14. ALL NEW CAT6A CABLE SHALL BE PLENUM RATED.

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Sheet Title:
ELECTRICAL LEGEND, NOTES AND ABBREVIATIONS

Designed by: D. SIMS
Drawn by: D. SIMS
Checked by: M. HADDAD
Approved by: SJBD

Revisions:

#	Description	Date
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MARIO HADDAD

BLM Project # 140L062F0116

Project # 070117.029

Date: 05/08/2026

E-001

Sheet 61 of 86

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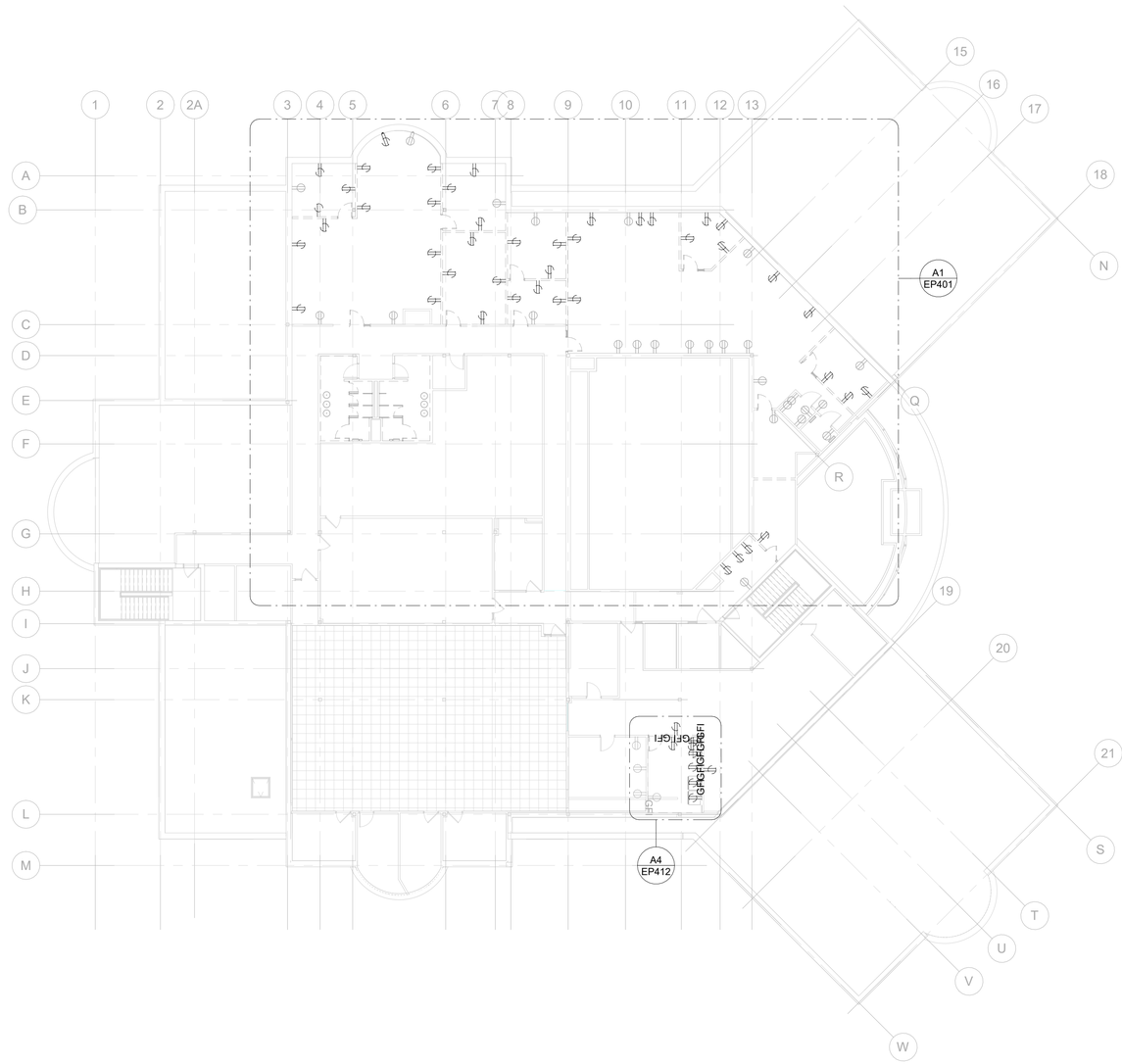

A1 ELECTRICAL OVERALL POWER DEMO PLAN

0 8' 16' 32'

N

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Sheet Title:
ELECTRICAL POWER DEMOLITION OVERALL PLAN

Designed by: D. SIMS
Drawn by: D. SIMS
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Approved by: SJBD

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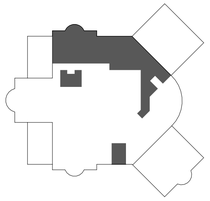
KEY PLAN



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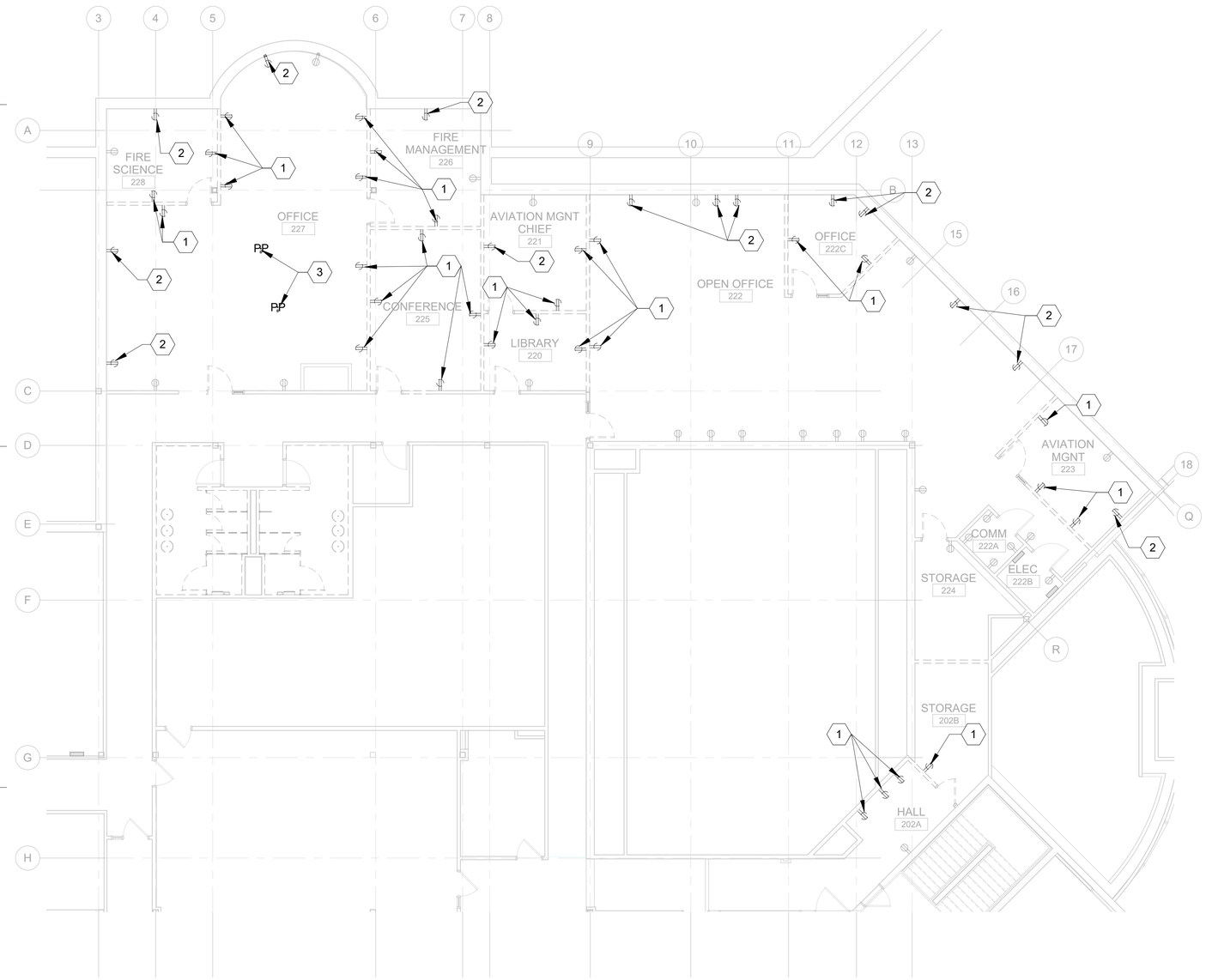

A1 SECOND FLOOR POWER DEMO PLAN

0 4' 8' 16'

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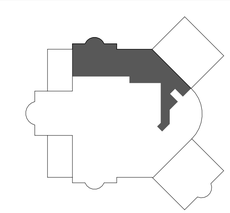
2. PROTECT ALL EXISTING ITEMS TO REMAIN. REPAIR EXISTING WIRING AS REQUIRED IF DAMAGED.
3. PROVIDE BLANK PLATES AT ALL OPEN BOXES WHERE DEVICES ARE REMOVED AND SURFACE IS NOT SCHEDULED TO BE PATCHED AND RE-FINISHED.

SHEET KEYNOTES

1. EXISTING POWER RECEPTACLES SHALL BE DEMOLISHED TO NEAREST SOURCE OR JUNCTION BOX.
2. EXISTING RECEPTACLES SHALL BE DEMOLISHED SO THAT ONE DEDICATED RECEPTACLE IS LEFT ON THE CIRCUIT TO FEED A MAXIMUM OF FOUR NEW WORKSTATIONS.
3. EXISTING TELE-POWER POLES SHALL BE DEMOLISHED. ALL CABLES INSIDE SHALL BE DEMOLISHED BACK TO THEIR SOURCE.

KEY PLAN



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Sheet Title:
ELECTRICAL POWER DEMOLITION PLAN

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Approved by: SJBD

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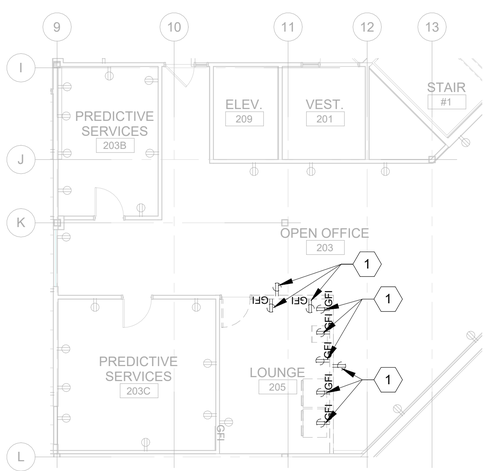

A1 SECOND FLOOR POWER DEMO PLAN ADD ALTERNATIVE

0 4' 8' 16'

N

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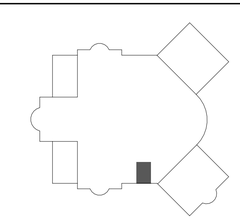

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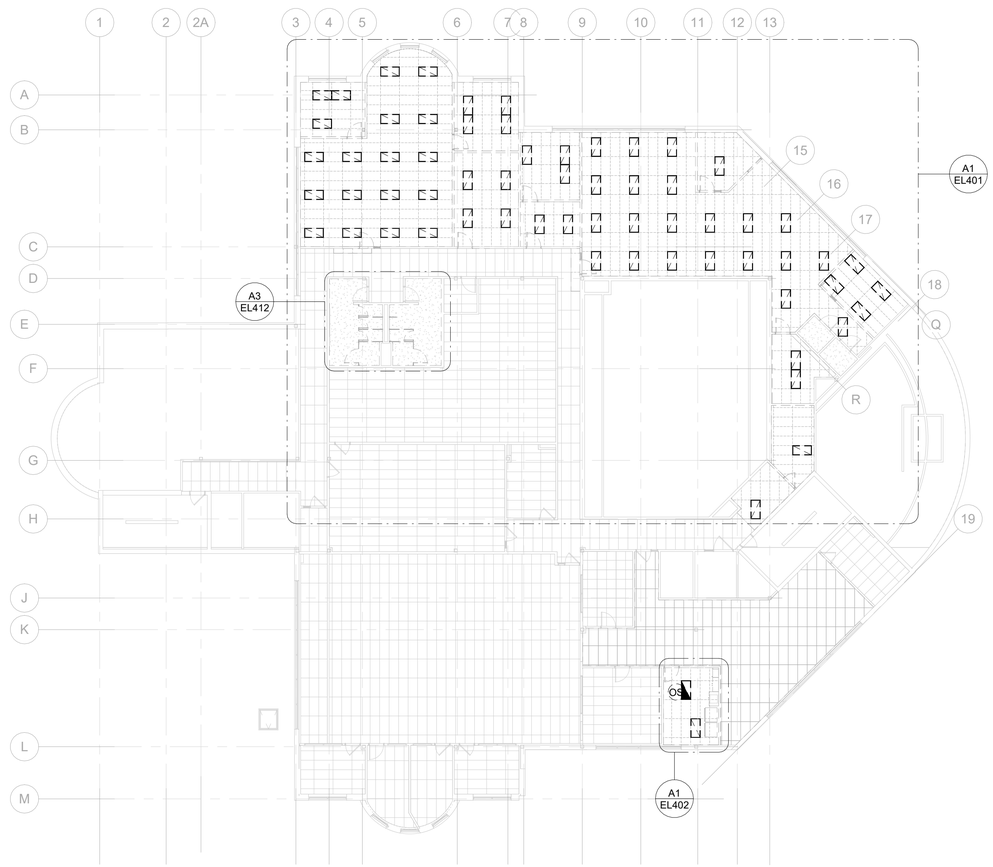

A1 LIGHTING OVERALL DEMO PLAN

0 8' 16' 32'

N

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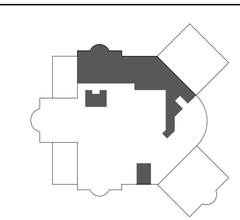

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Sheet Title:
ELECTRICAL LIGHTING DEMOLITION OVERALL PLAN

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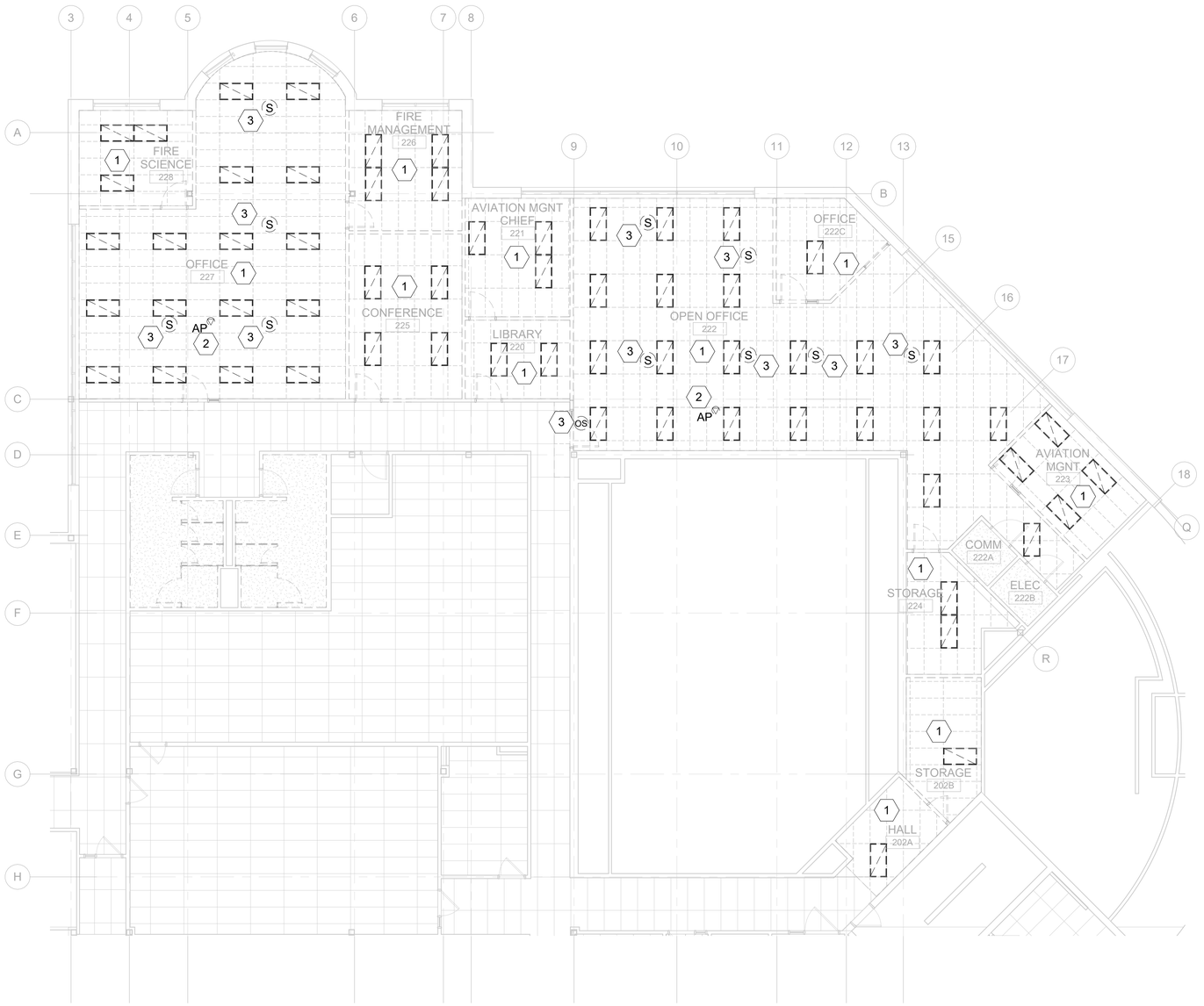

A1 SECOND FLOOR LIGHTING DEMO PLAN

0 4' 8' 16'

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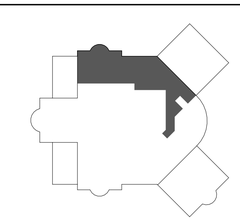
1. CONTRACTOR TO FIELD VERIFY ALL EXISTING WIRING, FIXTURES AND EQUIPMENT LOCATIONS PRIOR TO DEMOLITION AND CONSTRUCTION.
2. PROTECT ALL EXISTING ITEMS TO REMAIN. REPAIR EXISTING WIRING AS REQUIRED IF DAMAGED.

SHEET KEYNOTES

1. ALL LUMINAIRES AND LUMINAIRES CONTROLS SHALL BE DEMOLISHED. RETAIN AND PROTECT WIRING FOR NEW LED LUMINAIRES AND LUMINAIRES CONTROLS.
2. EXISTING WIRELESS ACCESS POINTS SHALL BE REMOVED AND RETAINED FOR REINSTALLATION. THE EXISTING COMMUNICATIONS CABLES SHALL BE DEMOLISHED BACK TO THE SOURCE IN EITHER COMM RM 222A OR COMM RM 231.
3. EXISTING OCCUPANCY SENSORS AND SPEAKERS SHALL BE DEMOLISHED. THEIR EXISTING COMMUNICATIONS CABLES SHALL ALSO BE DEMOLISHED.

KEY PLAN



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Sheet Title: ELECTRICAL LIGHTING DEMOLITION PLAN

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Drawn by: D. SIMS
Checked by: M. HADDAD
Approved by: SJBD

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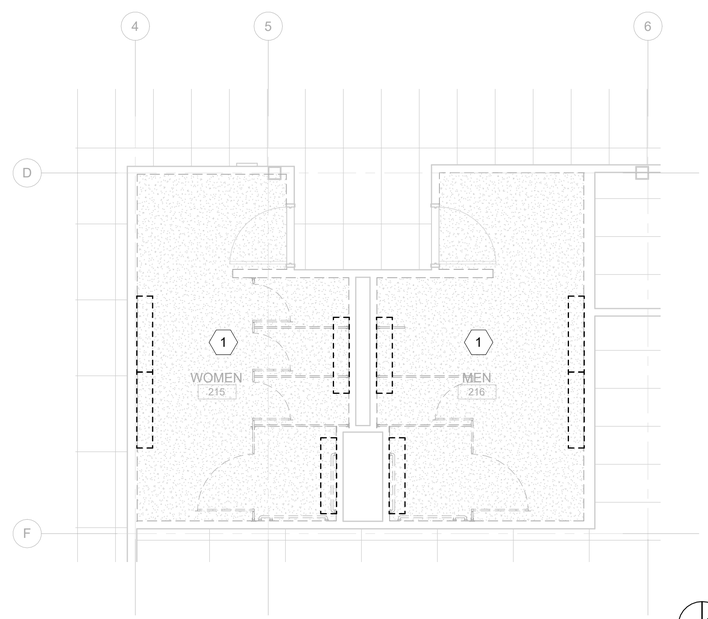
A1 SECOND FLOOR LIGHTING DEMO PLAN ADD ALTERNATIVE

0 4' 8' 16'



A3 SECOND FLOOR LIGHTING DEMO PLAN

0 2' 4' 8'

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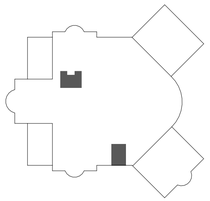
2. PROTECT ALL EXISTING ITEMS TO REMAIN. REPAIR EXISTING WIRING AS REQUIRED IF DAMAGED.

SHEET KEYNOTES

1. ALL LUMINAIRES AND LUMINAIRES CONTROLS SHALL BE DEMOLISHED. RETAIN AND PROTECT WIRING FOR NEW LED LUMINAIRES AND LUMINAIRES CONTROLS.

KEY PLAN



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Project # 070117.029
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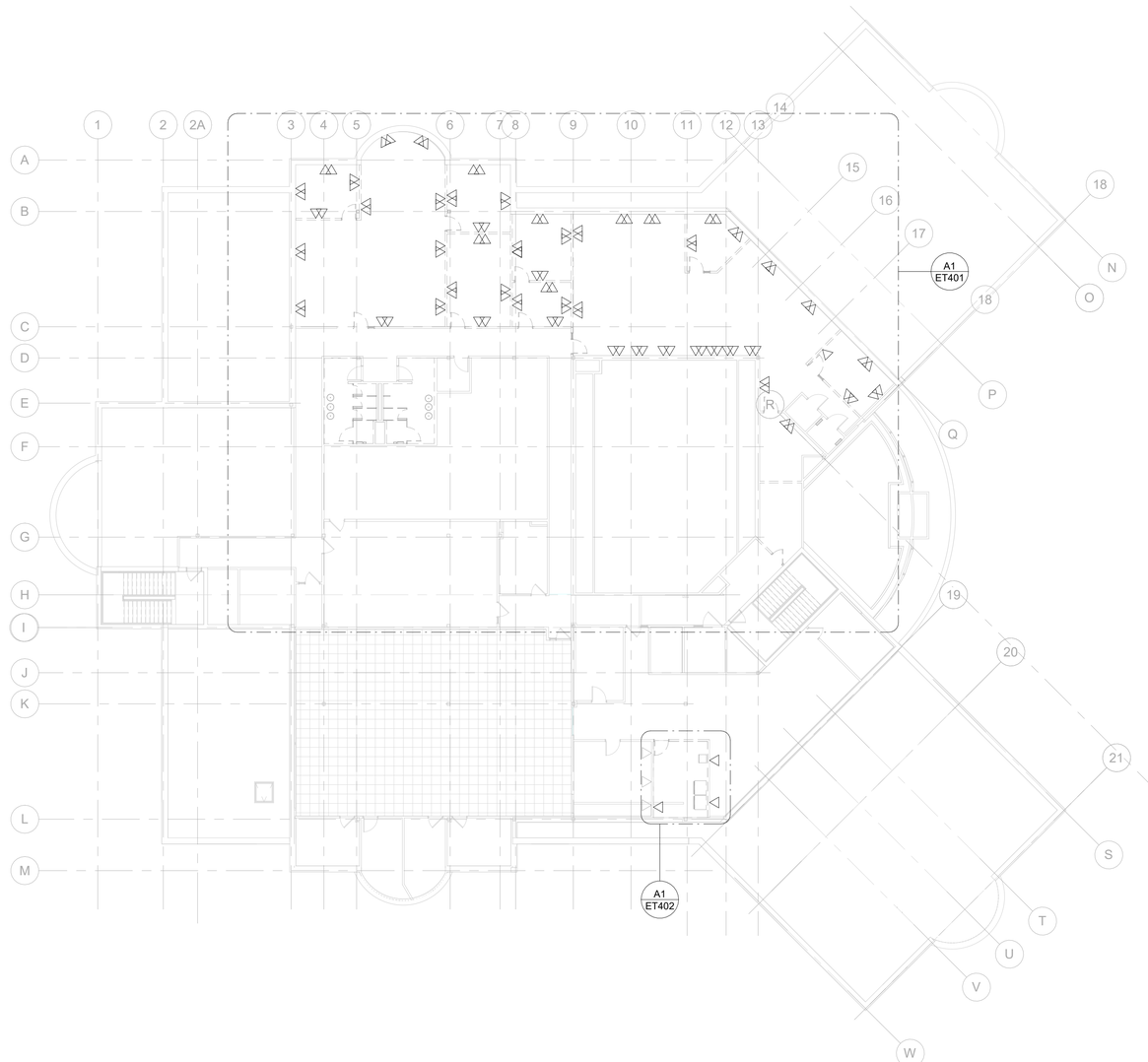

A1 TELECOM OVERALL DEMO PLAN

0 8' 16' 32'

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Sheet Title:
TELECOMMUNICATIONS
DEMOLITION OVERALL PLAN

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Checked by: M. HADDAD
Approved by: SJBD

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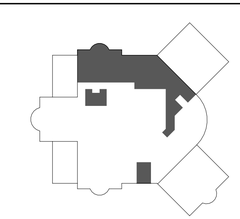
KEY PLAN



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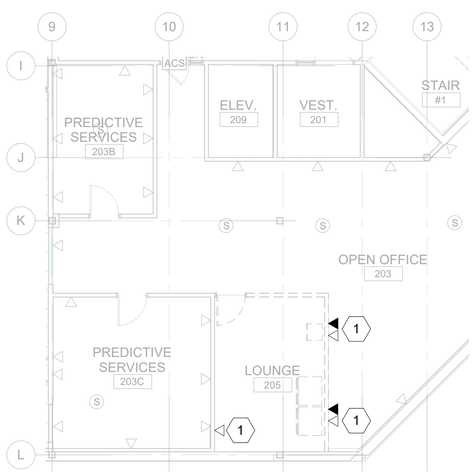

A1 SECOND FLOOR TELECOM DEMO PLAN ADD ALTERNATIVE

N

0 4' 8' 16'

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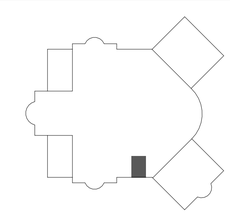
1. CONTRACTOR TO FIELD VERIFY ALL EXISTING WIRING, FIXTURES AND EQUIPMENT LOCATIONS PRIOR TO DEMOLITION AND CONSTRUCTION.
2. PROTECT ALL EXISTING ITEMS TO REMAIN. REPAIR EXISTING WIRING AS REQUIRED IF DAMAGED.
3. PROVIDE BLANK PLATES AT ALL OPEN BOXES WHERE DEVICES ARE REMOVED AND SURFACE IS NOT SCHEDULED TO BE PATCHED AND RE-FINISHED.

SHEET KEYNOTES

1. EXISTING DATA/TELE OUTLETS TO BE DEMOLISHED BACK TO SOURCE IN COMM RM 231. WALLS SHALL BE PATCHED WHERE OUTLETS WERE REMOVED AND ARE NOT PLANNED TO BE REUSED.

KEY PLAN



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NIFC 300-JWH SUITE 222/227

NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management

3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: TELECOMMUNICATIONS DEMOLITION PLAN

Designed by: D. SIMS
Drawn by: D. SIMS
Checked by: M. HADDAD
Approved by: SJBD

Revisions:

#	Description	Date
0.	100% - ISSUED FOR CONSTRUCTION	05/2026

PROFESSIONAL ENGINEER LICENSED 2061470 STATE OF IDAHO MARIO HADDAD

BLM Project # 140L062F0116

Project # 070117.029

Date: 05/08/2026

ET402

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Existing Branch Panel: HD

LOCATION: ELEC 232 **VOLTS:** 480Y/277V **MAINS TYPE:** MLO
SUPPLY FROM: MAIN SWITCHBOARD **PHASES:** 3 **MAINS RATING:** 225A
MOUNTING: Surface Mounted **WIRES:** 4

CKT NO	LOAD SERVED	TRIP AMPS	NO POLE	LOAD - V.A. A Ø		B Ø		C Ø		NO POLE	TRIP AMPS	LOAD SERVED	CKT NO
1	LIGHTING - 234, 229, 219, 212, 202, 218, 217	20A	1	2430	3000					1	20A	LIGHTING - 230, 233, 235	2
3	LIGHTING - 227, 228	20A	1			2280	2700			1	20A	LIGHTING - 214, 213	4
5	SPARE	20A	1						2100	1	20A	LIGHTING - 236, 210, 211	6
7	SPARE	20A	1							1	20A	SPARE	8
9	SPARE	20A	1							1	20A	SPARE	10
11	~~VAV - 227~~	20A	1					4432		1	20A	SPARE	12
13	~~VAV - 227~~	20A	1	4432						1	20A	SPARE	14
15	VAV - 206	20A	1			4432				1	20A	SPARE	16
17	VAV - 206, 209	20A	1					4432		1	20A	SPARE	18
19	VAV - 230	20A	1	4432						1	20A	SPARE	20
21	VAV - 213	20A	1			4432				1		SPACE	22
23	VAV - 210	20A	1					4432		1		SPACE	24
25	SPACE		1		23360					3	60A	PANEL LD TRANSFORMER	26
27	SPACE		1				18820						28
29	SPACE		1						24580				30
TOTAL LOAD PER PHASE:				37654		32664		39976					
TOTAL AMPS PER PHASE:				135.9		117.9		144.2					
TOTAL VOLT-AMPS:				110294						TOTAL AMPS:		132.7	

Existing Branch Panel: HF

LOCATION: ELEC 222B **VOLTS:** 480Y/277V **MAINS TYPE:** MLO
SUPPLY FROM: MAIN SWITCHBOARD **PHASES:** 3 **MAINS RATING:** 225A
MOUNTING: Surface Mounted **WIRES:** 4

CKT NO	LOAD SERVED	TRIP AMPS	NO POLE	LOAD - V.A. A Ø		B Ø		C Ø		NO POLE	TRIP AMPS	LOAD SERVED	CKT NO
1	LIGHTING - 156	20A	1	2280	2760					20A	1	LIGHTING	2
3	LIGHTING - 203, 205, 204	20A	1			3600	2460			20A	1	LIGHTING	4
5	SPARE	20A	1							20A	1	SPARE	6
7	SPARE	20A	1							20A	1	SPARE	8
9	VAV - 156	20A	1			4432				20A	1	SPARE	10
11	~~VAV - 222~~	20A	1					4432		20A	1	SPARE	12
13	~~VAV - 222~~	20A	1	4432						20A	1	SPARE	14
15	VAV - 203	20A	1			4432				20A	1	SPACE	16
17	VAV - 203	20A	1					4432		20A	1	SPACE	18
19	SPACE		1							20A	1	SPACE	20
21	SPACE		1							20A	1	SPACE	22
23	SPACE		1							20A	1	SPACE	24
25	SPACE		1		18020					3	60A	PANEL LF TRANSFORMER	26
27	SPACE		1				17820						28
29	SPACE		1						14900				30
TOTAL LOAD PER PHASE:				27492		32744		23764					
TOTAL AMPS PER PHASE:				99.2		118.2		85.8					
TOTAL VOLT-AMPS:				84000						TOTAL AMPS:		101.0	

Existing Branch Panel: LD-1

LOCATION: ELEC 232 **VOLTS:** 208Y/120V **A.I.C. RATING:** TBD
SUPPLY FROM: PANEL HD **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: Surface Mounted **WIRES:** 4 **MAINS RATING:**
ENCLOSURE: NEMA 1 **MCB RATING:** 150A

CKT NO	LOAD SERVED	TRIP AMPS	NO POLE	LOAD - V.A. A Ø		B Ø		C Ø		NO POLE	TRIP AMPS	LOAD SERVED	CKT NO
1	EAST WALL OFFICE 230	20A	1	600	800					1	20A	~~WEST WALL OFFICE 227~~	2
3	NORTH WALL OFFICE 230	20A	1			800	1000			1	20A	~~FIRE SCIENCE 228~~	4
5	TECH SUPPORT 233	20A	1					1000	1000	1	20A	~~NORTH WALL OFFICE 227~~	6
7	SE WALL OFFICE 230	20A	1	800	1000					1	20A	GFI 215 & 216, STOR 218, JANITOR 217	8
9	SW WALL OFFICE 230	20A	1			800	1920			1	20A	DRINKING FOUNTAIN 219	10
11	NW WALL OFFICE 230	20A	1					800	800	1	20A	~~OFFICE 227~~	12
13	ELECTRICAL RM 231, CORRIDOR 229	20A	1	600	800					1	20A	N WALL BRIEFING CENTER, WEST OFFICE 213	14
15	WEST WALL COPY CENTER 214	20A	1			500	1200			1	20A	NORTH & EAST WALLS OFFICE 213	16
17	TECH COMP 235, CORRIDOR 234 STRWY #2	20A	1					1200	800	1	20A	~~SOUTH & EAST OFFICE~~	18
19	EAST WALL BREIFING RM 210	20A	1	1000	400					1	20A	NORTH WEST WALL BRIEFING RM 210	20
21	PROJECTOR RM 211	20A	1			400	600			1	20A	OVER COUNTER TOP COPY CENTER 214	22
23	PROJECTOR RM 211	20A	1					600	500	1	20A	NORTH WALL COPY RM 214	24
25	OFFICE RM 230	20A	1	1920	400					1	20A	TELEPHONE BOARD COMM RM 231A	26
27	OFFICE RM 230	20A	1			1920	400			1	20A	TELEPHONE BOARD COMM RM 231A	28
29	OFFICE RM 230	20A	1					1920	1920	1	20A	EF #1	30
TOTAL LOAD PER PHASE:				8320		9540		10540					
TOTAL AMPS PER PHASE:				69.3		79.5		87.8					
TOTAL VOLT-AMPS:				28400						TOTAL AMPS:		78.8	

LBYD FEDERAL, LLC
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GENERAL ELECTRICAL NOTES:

1. HATCHING INDICATES ITEMS THAT SHALL BE DISCONNECTED AND DEMOLISHED.

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U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NIFC 300-JWH SUITE 222/227

NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: ELECTRICAL DEMOLITION SCHEDULES

Designed by: D. SIMS
Drawn by: D. SIMS
Checked by: M. HADDAD
Approved by: SJBD

Revisions:

#	Description	Date
0	100% - ISSUED FOR CONSTRUCTION	05/2026

PROFESSIONAL ENGINEER LICENSED 2061470 STATE OF IDAHO MARIO HADDAD

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

ED601

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Existing Branch Panel: LD-2

LOCATION: ELEC 232
SUPPLY FROM: PANEL HD
MOUNTING: Surface Mounted
ENCLOSURE: NEMA 1

VOLTS: 208Y/120V
PHASES: 3
WIRES: 4

A.I.C. RATING: TBD
MAINS TYPE: MCB
MAINS RATING:
MCB RATING: 150A

CKT NO	LOAD SERVED	TRIP AMPS	NO POLE	LOAD - V.A. A Ø		B Ø		C Ø		NO POLE	TRIP AMPS	LOAD SERVED	CKT NO
31	RECEPTS-210, 236	20A	1	1000	1920					1	20A	EF #2 ROOF TOP	32
33	DRINKING FOUNTAIN 202	20A	1			1920	400			1	20A	EF #4 ROOF TOP	34
35	RECESSED LIGHTS RR2 RM 210	20A	1					1920	1920	1	20A	EF #3 ROOF TOP	36
37	RECESSED LIGHTS RR1 RM 211	20A	1	1920	1920					1	20A	EF #9 ELEC RM 231	38
39	COLOR TRAN PLUG STRIP RM 210	20A	1			1920	600			1	20A	TELEPHONE POWER POLE OFFICE 227	40
41	A/V T/C 1 RECEPTS 211	20A	1					1920	600	1	20A	TELEPHONE POWER POLE OFFICE 227	42
43	TIME CLOCK EF ELEC 231	20A	1	1920	600					1	20A	TELEPHONE POWER POLE OFFICE 230	44
45	SPARE	20A	1				600			1	20A	TELEPHONE POWER POLE OFFICE 230	46
47	A/V T/C 2 RECEPTS 231	20A	1					1920	1920	1	20A	AHU #1 & #2 DUCT SMOKE DETECTORS	48
49	BLM-PLANNING COPY & RESOURCES	20A	1	1920	1920					1	20A	213 SOUTH POWER POLE	50
51	BLM PLANNING OFFICE FURN	20A	1			1920	1920			1	20A	213 COPIER	52
53	A/V T/C 3 RECEPTS 211	20A	1					1920	1920	1	20A	213 NORTH POWER POLE	54
55	FIRE ALARM PNL B	20A	1	1920						1	20A	SPACE	56
57	SPACE	20A	1							1	20A	SPACE	58
59	SPACE	20A	1							1	20A	SPACE	60
	TOTAL LOAD PER PHASE:			15040		9280		14040					
	TOTAL AMPS PER PHASE:			125.3		77.3		117.0					
	TOTAL VOLT-AMPS:			38360						TOTAL AMPS:		106.5	

Existing Branch Panel: LF-1

LOCATION: ELEC 222B
SUPPLY FROM: PANEL HF
MOUNTING: Surface Mounted
ENCLOSURE: NEMA 1

VOLTS: 208Y/120V
PHASES: 3
WIRES: 4

A.I.C. RATING: TBD
MAINS TYPE: MCB
MAINS RATING:
MCB RATING: 150A

CKT NO	LOAD SERVED	TRIP AMPS	NO POLE	LOAD - V.A. A Ø		B Ø		C Ø		NO POLE	TRIP AMPS	LOAD SERVED	CKT NO
1	VENDING 202A	20A	1	200	1200					1	20A	AVIATION MANAGEMENT 223	2
3	VENDING 202A	20A	1			200	600			1	20A	OPEN OFFICE NORTH 222	4
5	VENDING 202A	20A	1					200	600	1	20A	OPEN OFFICE NORTH 222	6
7	REC VEST 201, STAIRWAY #1N, OPEN OFFICE 203	20A	1	800	800					1	20A	OPEN OFFICE SOUTH 222	8
9	ROOM 204	20A	1			1000	800			1	20A	OFFICE WEST 222	10
11	SOUTH OFFICE 203	20A	1					1200	800	1	20A	NORTH OFFICE 222	12
13	LOUNGE 205	20A	1	1000	1000					1	20A	AVIATION MANAGEMENT RM 221	14
15	OVER COUNTER LOUNGE ROOM 205	20A	1			500	1000			1	20A	CONFERENCE RM 225, LIBRARY RM 220	16
17	VENDING LOUNGE 205	20A	1					500	800	1	20A	FIRE MANAGEMENT 226	18
19	NORTH OFFICE RM 203	20A	1	600	1920					1	20A	CONFERENCE RM 225	20
21	WEST OFFICE	20A	1			800	800			1	20A	ELECTRICAL RM 222B	22
23	WEST OFFICE	20A	1					600	1920	1	20A	OFFICE 222	24
25	OFFICE COPY MACHINE BLM BUDGET OFFICE	20A	1	1920	1920					1	20A	OFFICE 222	26
27	OFFICE COPY MACHINE BLM BUDGET OFFICE	20A	1			1920	1920			1	20A	OFFICE 222	28
29	OFFICE SPARE	20A	1						400	1	20A	COMM RM 222A, TELEPHONE BOARD	30
	TOTAL LOAD PER PHASE:			11360		9540		7020					
	TOTAL AMPS PER PHASE:			94.7		79.5		58.5					
	TOTAL VOLT-AMPS:			27920						TOTAL AMPS:		77.5	

Existing Branch Panel: LF-2

LOCATION: ELEC 222B
SUPPLY FROM: PANEL HF
MOUNTING: Surface Mounted
ENCLOSURE: NEMA 1

VOLTS: 208Y/120V
PHASES: 3
WIRES: 4

A.I.C. RATING: TBD
MAINS TYPE: MCB
MAINS RATING:
MCB RATING: 150A

CKT NO	LOAD SERVED	TRIP AMPS	NO POLE	LOAD - V.A. A Ø		B Ø		C Ø		NO POLE	TRIP AMPS	LOAD SERVED	CKT NO
31	VENDING RECEPTS 205	20A	1	500	400					1	20A	RECEPTS COMM RM 222 TELEPHONE BOARD	32
33	MICROWAVE BREAK RM	20A	1			1920	1920			1	20A	EF #6 ROOF TOP	34
35	MICROWAVE BREAK RM	20A	1					1920	200	1	20A	GFI RECEPTS ROOF TOP	36
37	SPACE	20A	1		1920					1	20A	EF #10 ELEC RM 222B	38
39	SPACE	20A	1				600			1	20A	RECEPTS SOUTH WALL OFFICE 222	40
41	SPACE	20A	1							1	20A	SPACE	42
43	SPACE	20A	1							1	20A	SPACE	44
45	SPACE	20A	1							1	20A	SPACE	46
47	SPACE	20A	1							1	20A	SPACE	48
49	SPACE	20A	1							1	20A	SPACE	50
51	SPARE	20A	1							1	20A	SPARE	52
53	COLOR TRAN PLUG STRIP MULTI-PURPOSE RM 156	20A	1					1920		1	20A	SPARE	54
55	LIGHTING RR4 MULTI-PURPOSE RM 156	20A	1	1920	1920					1	20A	RECEPTS RM 224	56
57	LIGHTING RR4 MULTI-PURPOSE RM 156	20A	1			1920	1920			1	20A	RECEPTS BREAK COUNTER	58
59	TRAC LIGHTS-TL-1 MULTI-PURPOSE RM 156	20A	1					1920	1920	1	20A	RECEPTS BREAK COUNTER	60
	TOTAL LOAD PER PHASE:			6660		8280		7880					
	TOTAL AMPS PER PHASE:			55.5		69.0		65.7					
	TOTAL VOLT-AMPS:			22820						TOTAL AMPS:		63.3	

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GENERAL ELECTRICAL NOTES:

1. HATCHING INDICATES ITEMS THAT SHALL BE DISCONNECTED AND DEMOLISHED.

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NIFC 300-JWH SUITE 222/227

NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
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Sheet Title: ELECTRICAL DEMOLITION SCHEDULES

Designed by: D. SIMS
Drawn by: D. SIMS
Checked by: M. HADDAD
Approved by: SJBD

Revisions:

#	Description	Date
0.	100% - ISSUED FOR CONSTRUCTION	05/2026

PROFESSIONAL ENGINEER LICENSED 2061470 STATE OF IDAHO MARIO HADDAD

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

ED602

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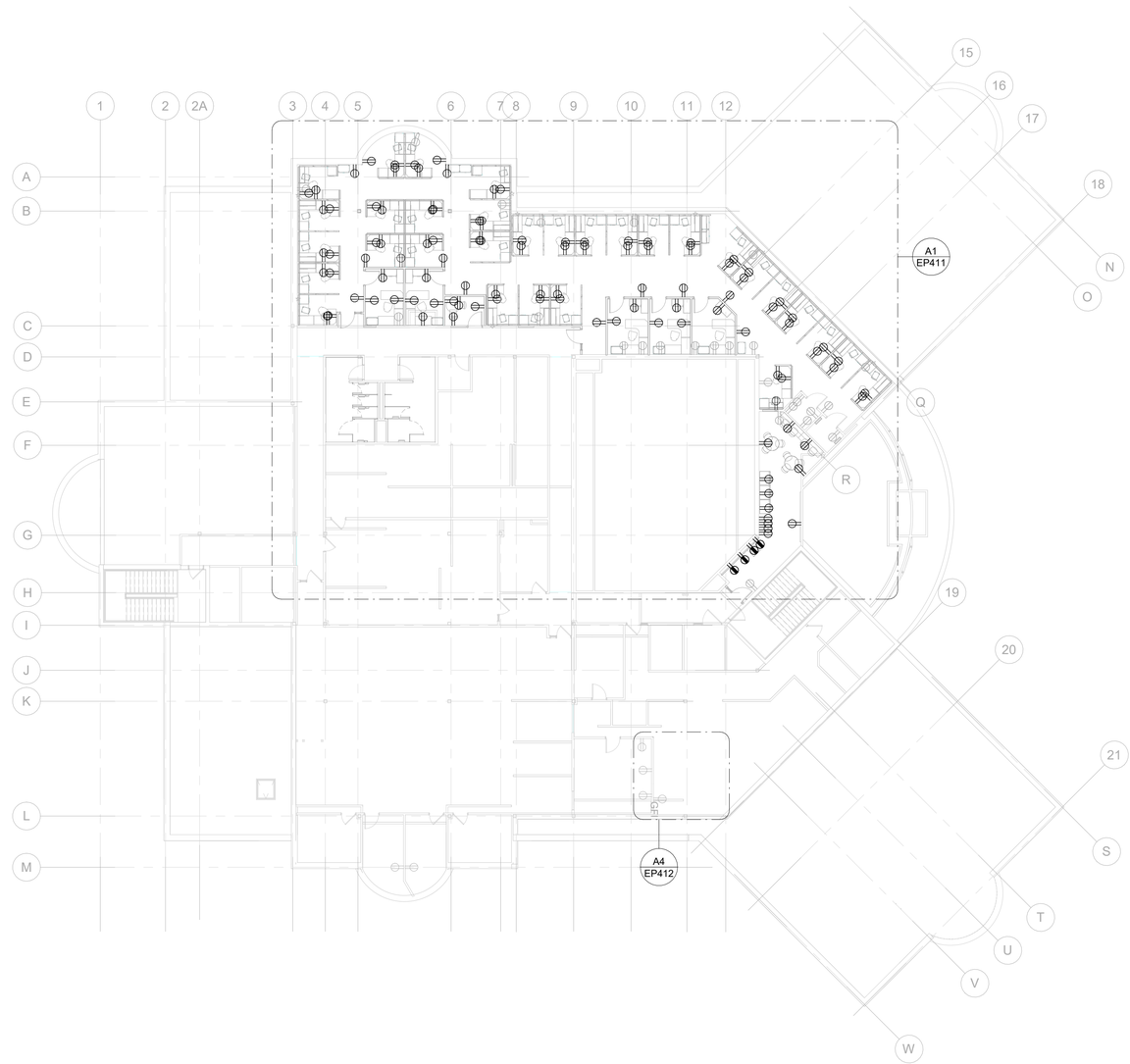

A1 POWER OVERALL PLAN

N

0 8' 16' 32'

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Phone (205) 488-0235
Project No. 070117.029

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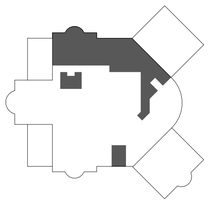
KEY PLAN



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NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management

3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title:
ELECTRICAL POWER OVERALL PLAN

Designed by: D. SIMS
Drawn by: D. SIMS
Checked by: M. HADDAD
Approved by: SJBD

Revisions:

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PROFESSIONAL ENGINEER
LICENSED
2061470
STATE OF IDAHO
MARIO HADDAD

BLM Project # 140L062F0116

Project # 070117.029

Date: 05/08/2026

EP111

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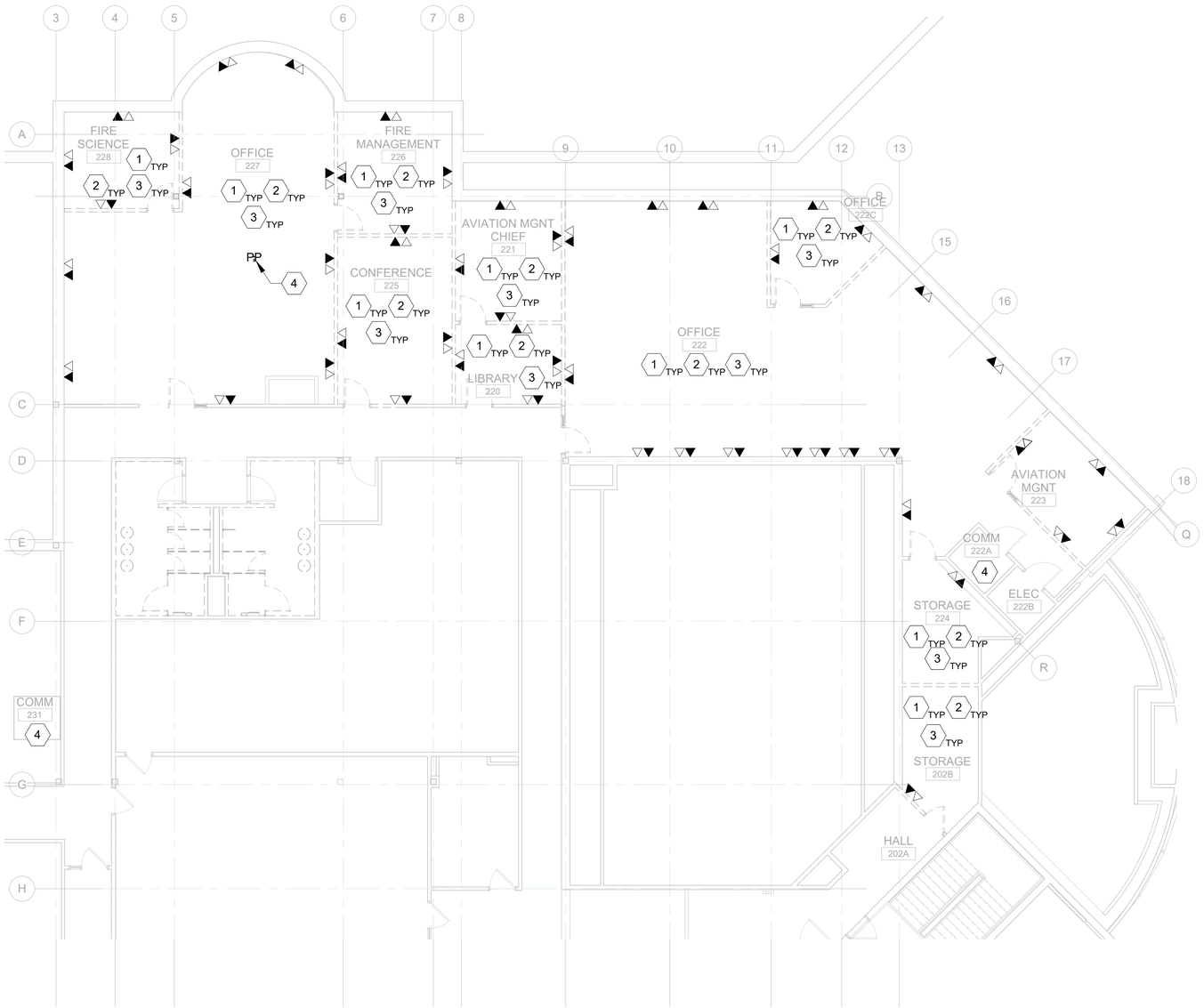

A1 SECOND FLOOR TELECOM DEMO PLAN

0 4' 8' 16'

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Phone (205) 488-0235
Project No. 070117.029

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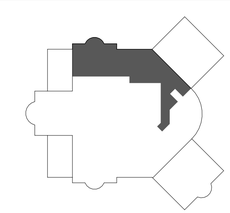
GENERAL ELECTRICAL NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING WIRING, FIXTURES AND EQUIPMENT LOCATIONS PRIOR TO DEMOLITION AND CONSTRUCTION.
2. PROTECT ALL EXISTING ITEMS TO REMAIN. REPAIR EXISTING WIRING AS REQUIRED IF DAMAGED.
3. PROVIDE BLANK PLATES AT ALL OPEN BOXES WHERE DEVICES ARE REMOVED AND SURFACE IS NOT SCHEDULED TO BE PATCHED AND RE-FINISHED.

SHEET KEYNOTES

1. EXISTING DATA/TELE PORTS AND OUTLETS SHALL BE DEMOLISHED BACK TO SOURCE IN COMM RM 222A. WALLS SHALL BE PATCHED WHERE OUTLETS WERE REMOVED AND ARE NOT PLANNED TO BE REUSED.
2. ALL EXISTING DATA CABLES IN ROOMS 202A, 202B, 220, 221, 222, 222C, 223, AND 224 SHALL BE DEMOLISHED BACK TO THE SOURCE IN COMM RM 222A.
3. ALL EXISTING TELECOMMUNICATIONS CABLES IN ROOMS 202A, 202B, 220, 221, 222, 222C, 223, AND 224 SHALL BE DEMOLISHED BACK TO THE SOURCE IN COMM RM 222A.
4. EXISTING PATCH PANELS SERVING ROOMS 202B, 220. 221, 222, 222C, 223, 224, 225, 226, 227, AND 228 SHALL BE DEMOLISHED.

KEY PLAN



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U.S. DEPARTMENT OF THE INTERIOR
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NIFC 300-JWH SUITE 222/227

NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management

3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title:
TELECOMMUNICATIONS DEMOLITION PLAN

Designed by: D. SIMS
Drawn by: D. SIMS
Checked by: M. HADDAD
Approved by: SJBD

Revisions:

#	Description	Date
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PROFESSIONAL ENGINEER LICENSED 2061470 STATE OF IDAHO MARIO HADDAD

BLM Project # 140L062F0116

Project # 070117.029

Date: 05/08/2026

ET401

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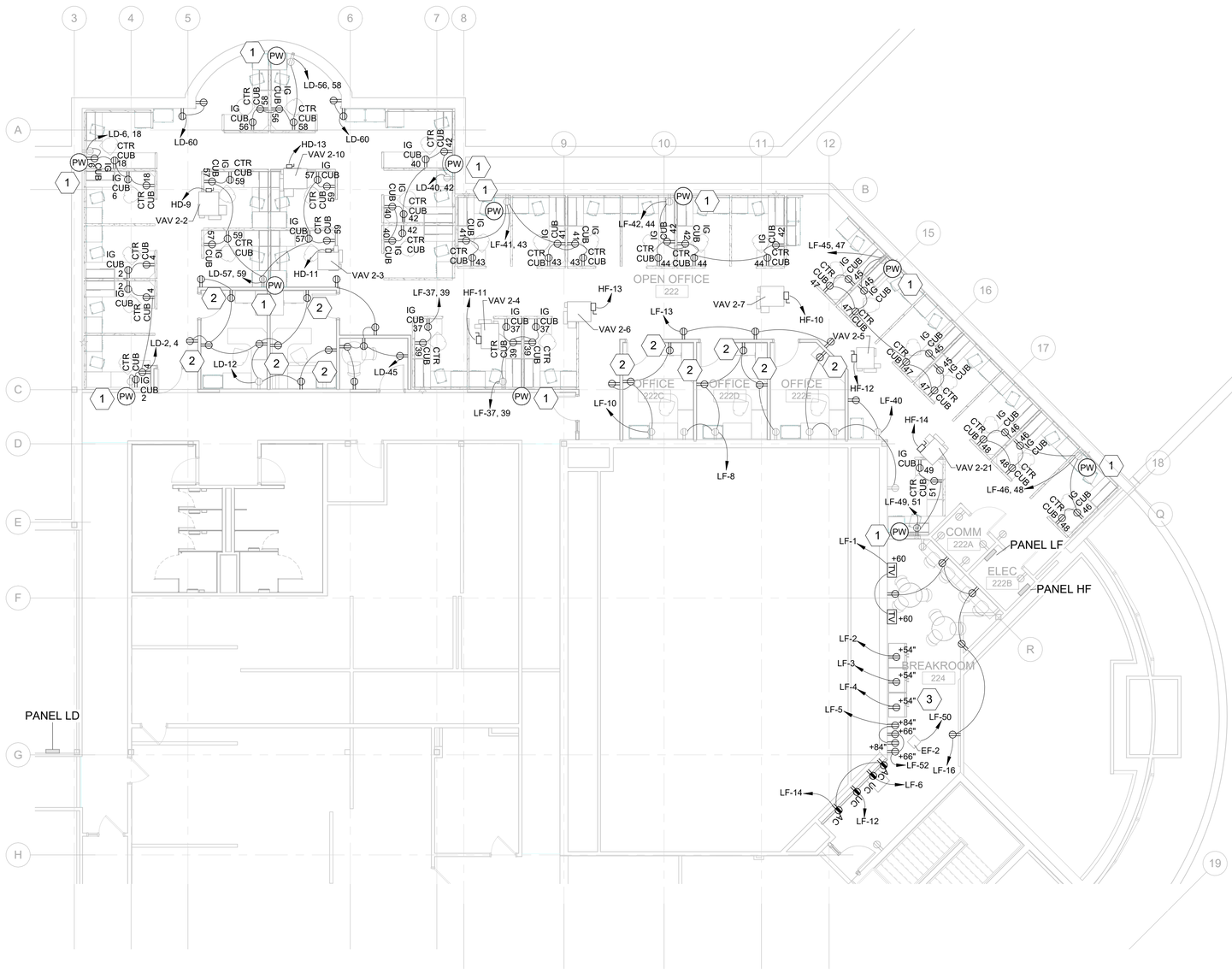

A1 SECOND FLOOR POWER PLAN

0 4' 8' 16'

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Phone (205) 488-0235

Project No. 070117.029

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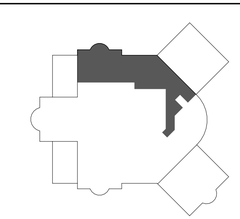
GENERAL ELECTRICAL NOTES:

1. SEE MECHANICAL PLANS FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT. COORDINATE SERVICES TO MECHANICAL EQUIPMENT WITH FINAL FIELD CONDITIONS.
2. REFER TO LIGHTING CONTROL SEQUENCE OF OPERATIONS FOR AUTOMATIC LIGHTING CONTROL DEVICES REQUIRED AS WELL AS DESIRED SEQUENCE OF OPERATIONS OF CONTROL. PROVIDE ALL NECESSARY DEVICES AND ACCESSORIES AS REQUIRED TO PROVIDE LEVEL OF CONTROL SPECIFIED.
3. ALL CONTROLLED RECEPTACLES SHALL BE PERMANENTLY MARKED (NOT COVER PLATE) AND VISIBLE AFTER INSTALLATION.
4. EXISTING DEVICES SHOWN LIGHT AND NEW DEVICES SHOWN BOLD.

⬡ SHEET KEYNOTES

1. CONNECT POWER TO MODULAR FURNITURE OUTLETS FROM EXISTING RECEPTACLE BOXES AND NEW POWER WHIPS. EACH POWER WHIP SHALL CONNECT A MAXIMUM OF FOUR WORKSTATIONS. CONNECT TO POWER WHIP WITH TWO SEPARATE HOT, NEUTRAL, AND GROUND CONDUCTORS FOR EACH RECEPTACLE CIRCUIT IN A CUBICLE (CUB). USE AN ISOLATED GROUND FOR CONTROLLED (CTR) RECEPTACLE. CONNECT THE CONTROLLED RECEPTACLED USING A PLUG LOAD CONTROL POWER PACK AND TIE INTO THE NEAREST OCCUPANCY SENSOR.
2. INSTALL NEW POWER RECEPTACLES FOR NEW ROOM LAYOUT. TIE NEW RECEPTACLE POWER INTO EXISTING CIRCUITS AS SHOWN.
3. INSTALL THREE NEW DEDICATED GFCI BREAKERS FOR THE REFRIGERATORS IN BREAK ROOM 224.

KEY PLAN



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NATIONAL SYSTEM OF PUBLIC LANDS
U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NIFC 300-JWH SUITE 222/227

NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management

3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title:
ELECTRICAL POWER PLAN

Designed by: D. SIMS
Drawn by: D. SIMS
Checked by: M. HADDAD
Approved by: SJBD

Revisions:

#	Description	Date
0	100% - ISSUED FOR CONSTRUCTION	05/2026

PROFESSIONAL ENGINEER
LICENSED
2061470
STATE OF IDAHO
MARIO HADDAD

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

EP411

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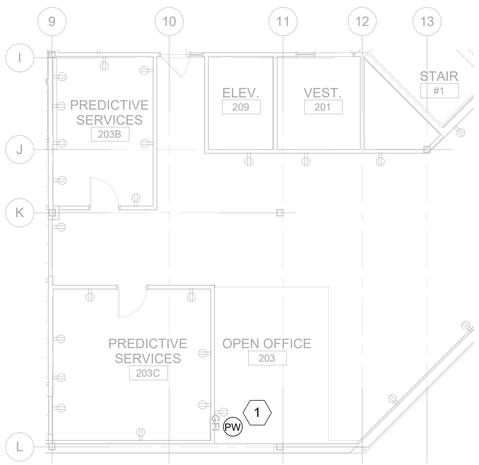

A4 SECOND FLOOR POWER PLAN ADD ALTERNATIVE

N

0 4' 8' 16'

LBYD FEDERAL, LLC
880 Montclair Road
Suite 600
Birmingham, AL 35213
Phone (205) 488-0235

Project No. 070117.029

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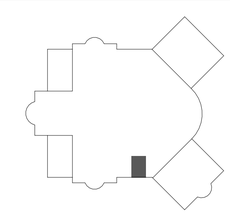
GENERAL ELECTRICAL NOTES:

1. REFER TO LIGHTING CONTROL SEQUENCE OF OPERATIONS FOR AUTOMATIC LIGHTING CONTROL DEVICES REQUIRED AS WELL AS DESIRED SEQUENCE OF OPERATIONS OF CONTROL. PROVIDE ALL NECESSARY DEVICES AND ACCESSORIES AS REQUIRED TO PROVIDE LEVEL OF CONTROL SPECIFIED.
2. EXISTING DEVICES SHOWN LIGHT AND NEW DEVICES SHOWN BOLD.

SHEET KEYNOTES

1. INSTALL NEW POWER WHIP FOR EXISTING RECEPTACLE.

KEY PLAN



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Sheet Title: ELECTRICAL POWER PLAN

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Approved by: SJBD

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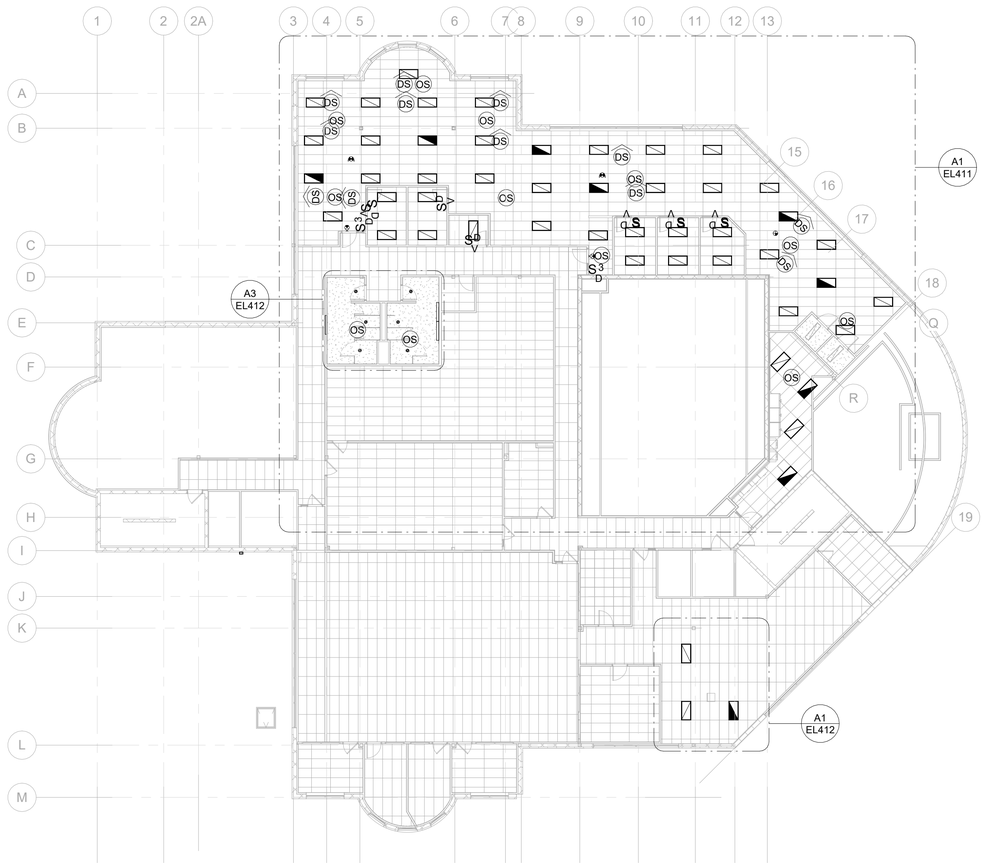

A1 LIGHTING OVERALL PLAN

0 8' 16' 32'

N

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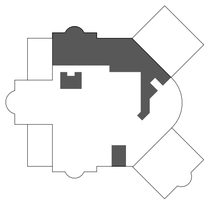
KEY PLAN



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Sheet Title:
ELECTRICAL LIGHTING OVERALL PLAN

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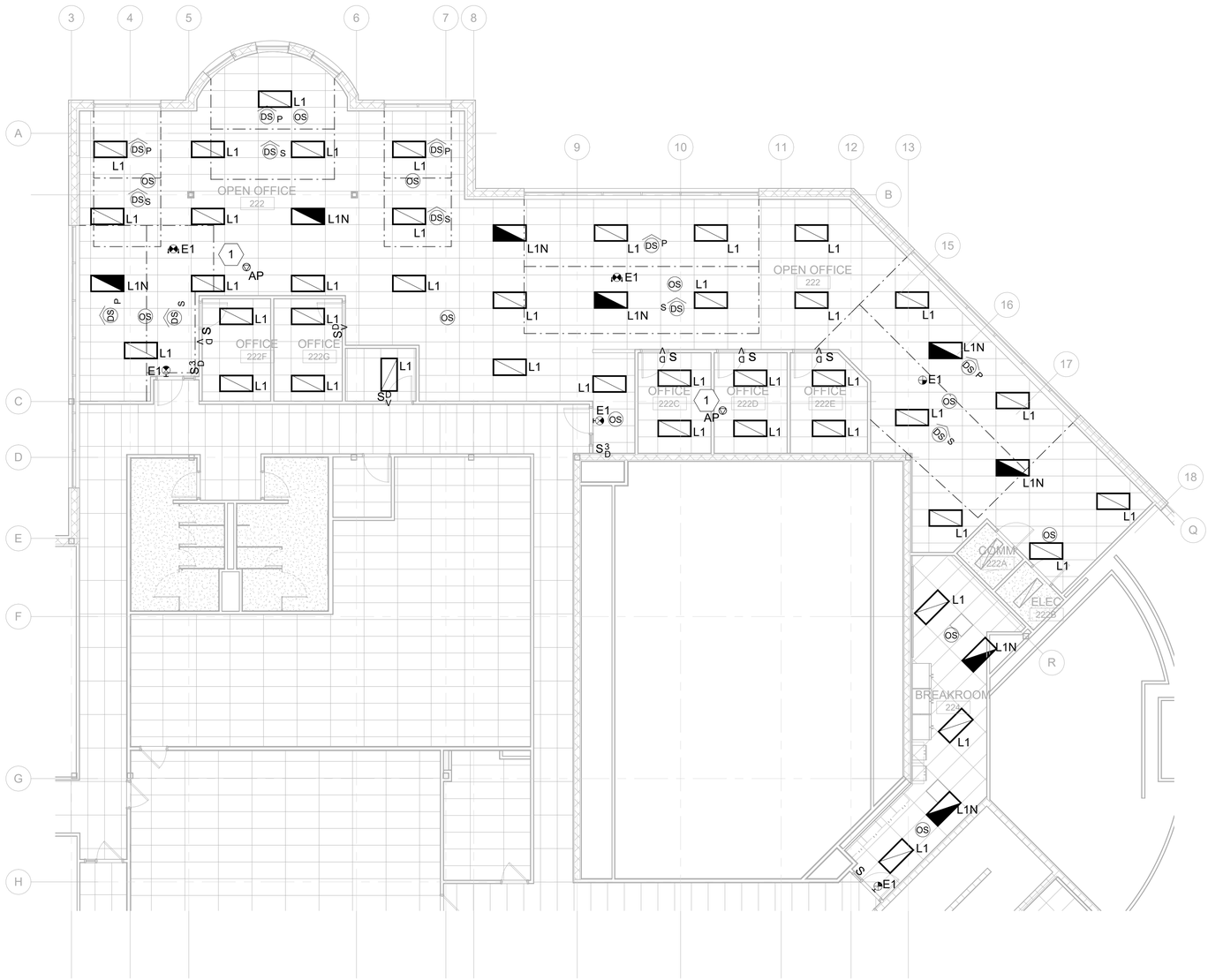

A1 SECOND FLOOR LIGHTING PLAN

0 4' 8' 16'

N

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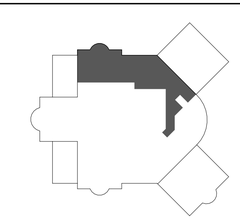
2. USE EXISTING CIRCUITS TO POWER LIGHTS.
3. EXISTING DEVICES SHOWN LIGHT AND NEW DEVICES SHOWN BOLD.

SHEET KEYNOTES

1. EXISTING WIRELESS ACCESS POINT THAT WAS REMOVED SHALL BE REINSTALLED AND REFED WITH NEW CAT6A CABLES.

KEY PLAN



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United States Department of the Interior Bureau of Land Management

3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: ELECTRICAL LIGHTING PLAN

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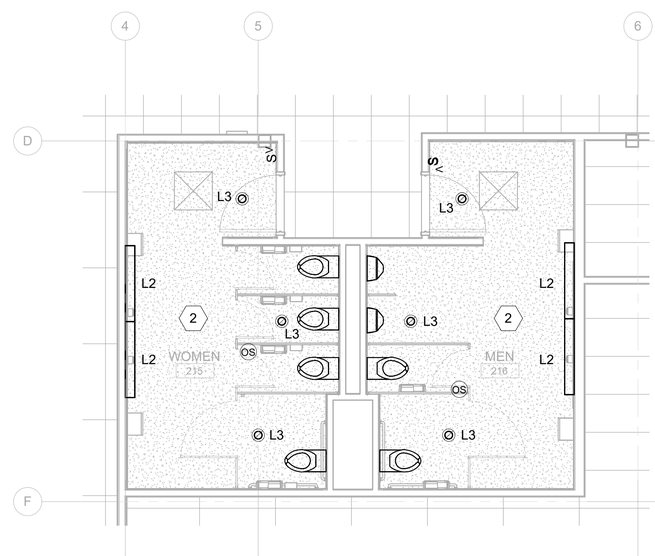
A1 SECOND FLOOR LIGHTING PLAN ADD ALTERNATIVE

0 4' 8' 16'



A3 SECOND FLOOR LIGHTING PLAN

0 2' 4' 8'

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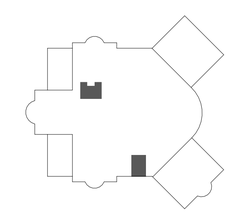
2. USE EXISTING CIRCUITS TO POWER LIGHTS.
3. EXISTING DEVICES SHOWN LIGHT AND NEW DEVICES SHOWN BOLD.

SHEET KEYNOTES

1. TIE NEW LUMINAIRE INTO EXISTING CIRCUIT AS SHOWN. MATCH EXISTING CONDUCTOR SIZE AND INSULATION TYPE.
2. EXISTING BATHROOM WALLS SHALL BE PATCHED AND REPAIRED WHERE LIGHTS WERE REMOVED AND NOT REINSTALLED.

KEY PLAN



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Sheet Title: ELECTRICAL LIGHTING PLAN

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Checked by: M. HADDAD
Approved by: SJBD

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BLM Project # 140L062F0116

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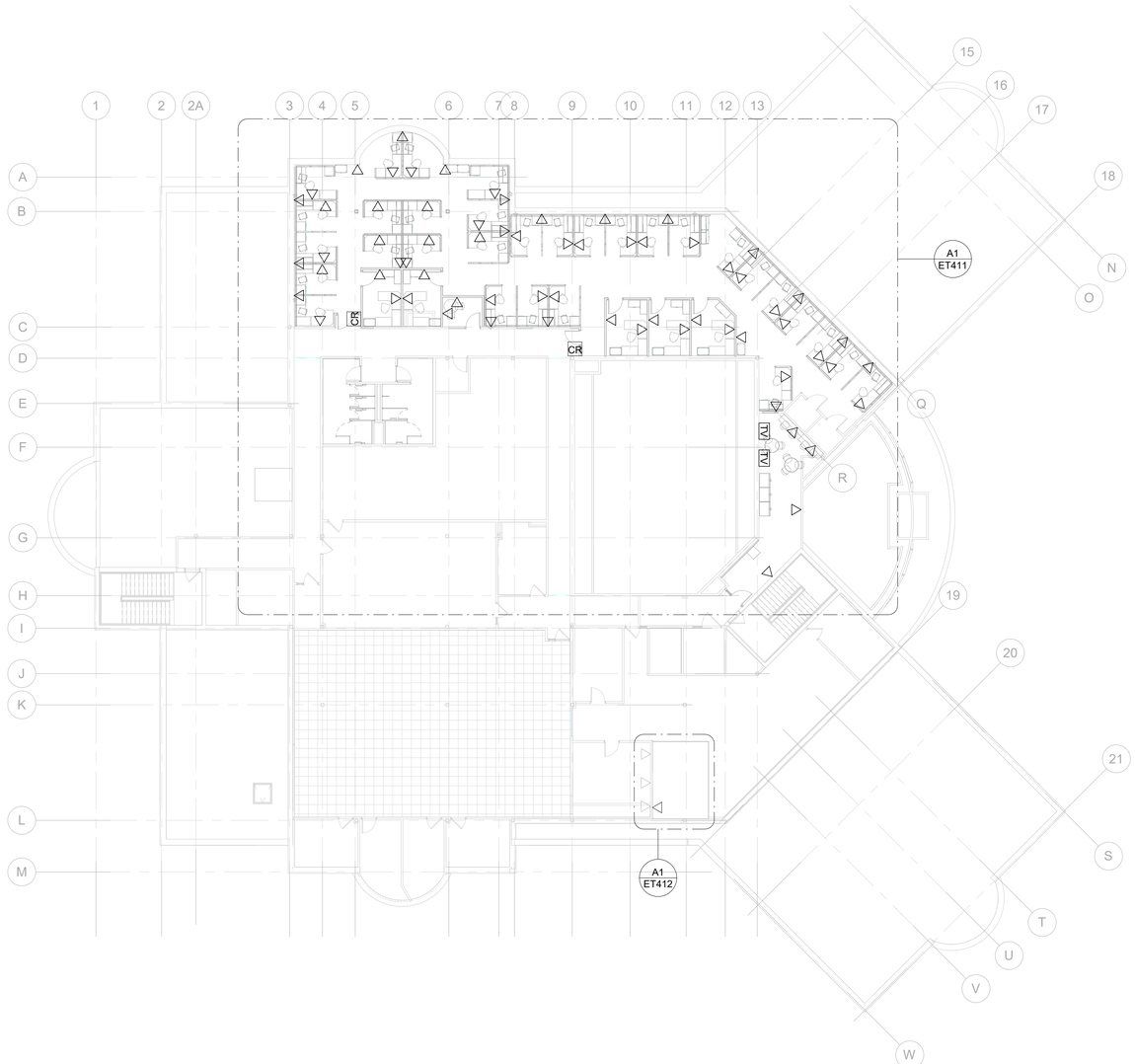

A1 TELECOM OVERALL PLAN

N

0 8' 16' 32'

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Project No. 070117.029

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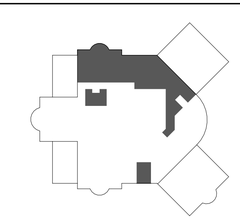
KEY PLAN



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Sheet Title:
TELECOMMUNICATIONS OVERALL PLAN

Designed by: D. SIMS
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Checked by: M. HADDAD
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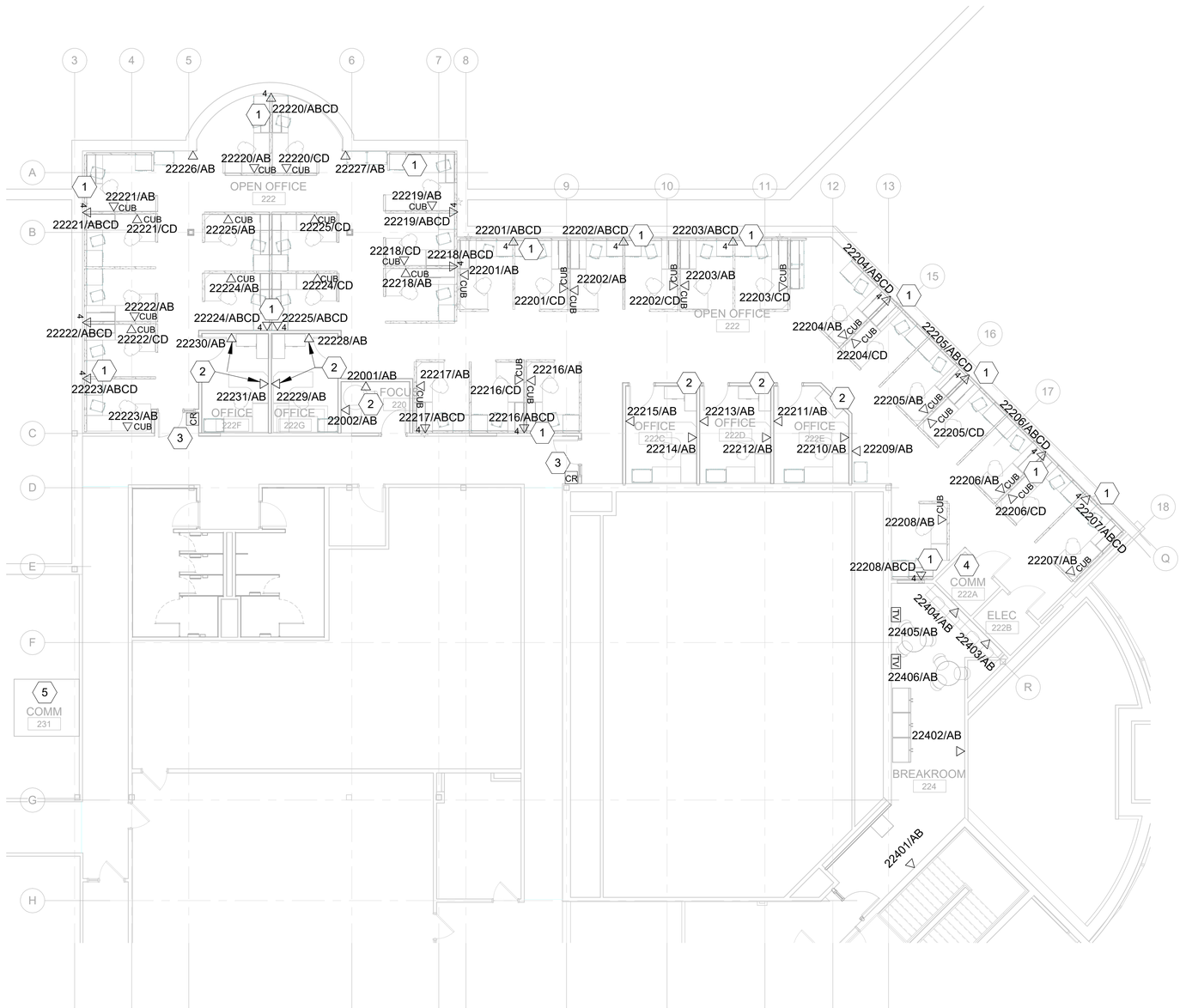

A1 SECOND FLOOR TELECOM PLAN

0 4' 8' 16'

LBYD FEDERAL, LLC
880 Montclair Road
Suite 600
Birmingham, AL 35213
Phone (205) 488-0235

Project No. 070117.029

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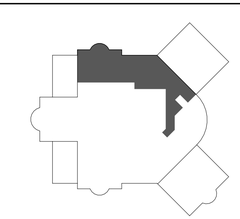
SHEET KEYNOTES

1. INSTALL NEW 4 PORT OUTLET AND CONNECT NEW COMMUNICATIONS CABLES TO MODULAR FURNITURE DATA OUTLETS. A SINGLE 4 PORT OUTLET SHALL SERVE TWO WORKSTATIONS AND EACH WORKSTATION SHALL HAVE A NEW2 PORT OUTLET MADE FOR CUBICLE TOE KICK. ALL NEW CAT6A NETWORK PORTS SHALL BE ROUTED TO IT RACKS IN COMM ROOMS 222A AND 231.
2. INSTALL NEW COMMUNICATIONS PORTS FOR NEW ROOM LAYOUT. ALL NEW CAT6A NETWORK PORTS SHALL BE ROUTED TO IT RACKS IN COMM RM 222A.
3. INSTALL NEW CARD READER. DATA AND POWER FOR NEW CARD READERS SHALL BE CONNECTED TO ACCESS CONTROL SYSTEM IN COMPUTER ROOM 015 IN BASEMENT. REFER TO DETAIL A1/E-501.
4. INSTALL NEW PATCH PANELS IN COMM ROOM 222A FOR NEW CAT6A NETWORK CABLES AND DATA EQUIPMENT.
5. INSTALL NEW PATCH PANELS IN COMM ROOM 231 FOR NEW CAT6A NETWORK CABLES AND DATA EQUIPMENT.

KEY PLAN



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United States Department of the Interior Bureau of Land Management

3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title:
TELECOMMUNICATIONS PLAN

Designed by: D. SIMS
Drawn by: D. SIMS
Checked by: M. HADDAD
Approved by: SJBD

Revisions:

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MARIO HADDAD

BLM Project # 140L062F0116
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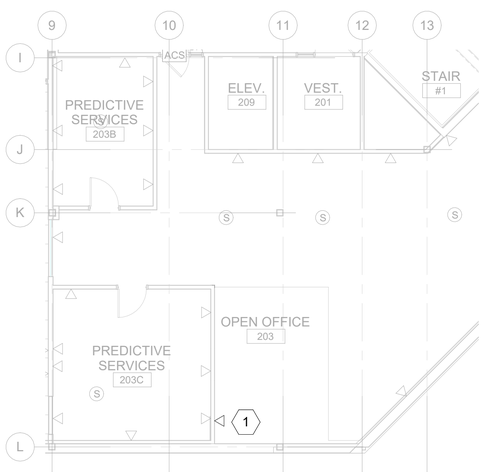


A1 SECOND FLOOR TELECOM PLAN ADD ALTERNATIVE

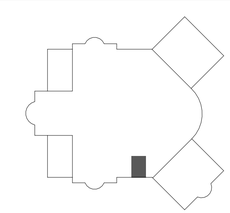
0 4' 8' 16'

N

SHEET KEYNOTES

1. INSTALL NEW DATA PORT AND NEW CAT6A CABLES FROM NEW PATCH PANELS IN COMM RM 222A.

KEY PLAN



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Sheet Title: TELECOMMUNICATIONS PLAN

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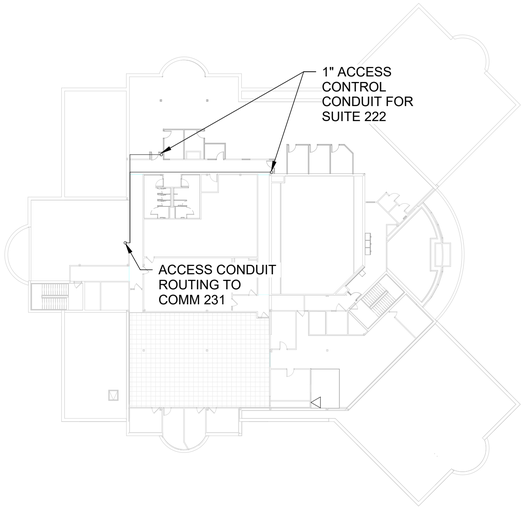
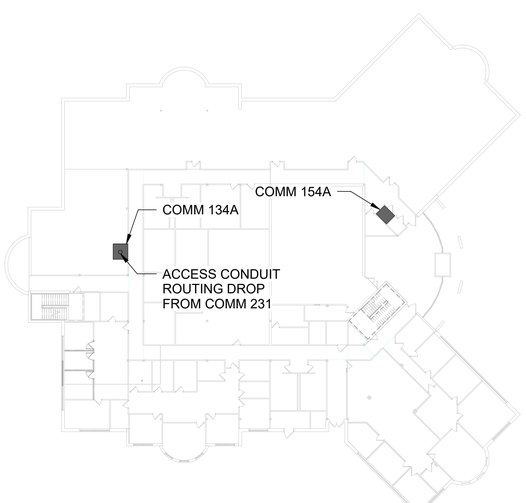


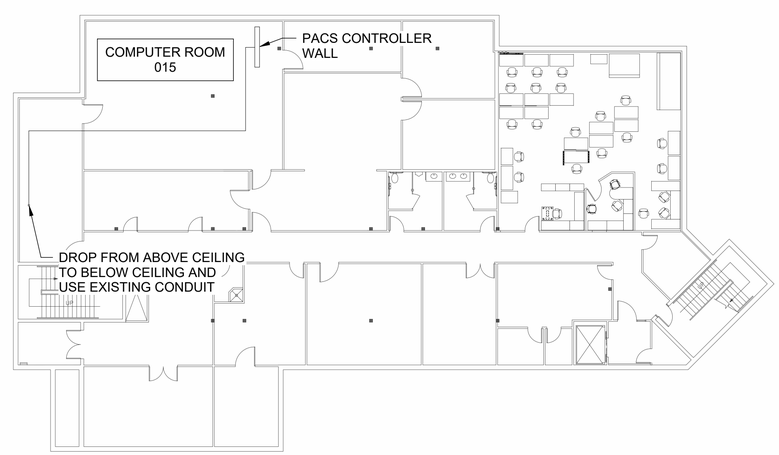
C1 SECOND FLOOR ACCESS CONTROL ROUTING PLAN

0 16' 32' 64'



A1 FIRST FLOOR ACCESS CONTROL ROUTING PLAN

0 16' 32' 64'



A3 BASEMENT ACCESS CONTROL ROUTING PLAN

0 8' 16' 32'

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ACCESS CONTROL CONDUIT ROUTING:

1. SHALL EXIT SUITE 222 AS DEPICTED IN DETAIL A1/E-501
2. RUN ABOVE DROP CEILING TO COMM RM 231.
3. FROM COMM RM 231, PENETRATE FLOOR TO COMM RM 134A USING EXISTING CONDUIT.
4. FROM COMM RM 134A, PENETRATE FLOOR TO RM 016 CEILING. CONTINUE IN EXISTING 3" CONDUIT ABOVE DROP CEILING FROM RM 016 TO COMMUNICATION EQUIPMENT RM 012.
5. DROP FROM ABOVE CEILING TO BELOW CEILING IN RM 012, ENTERING EXISTING CABLE TRAY. ROUTE IN EXISTING CABLE TRAY TO PACS CONTROLLER IN COMPUTER RM 015

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Sheet Title: ACCESS CONTROL PLAN

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Drawn by: D. SIMS
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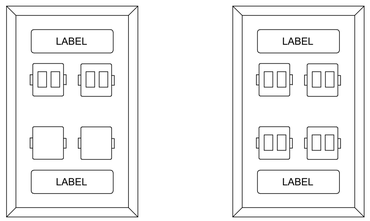
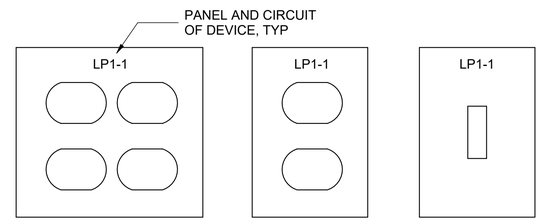


DUPLEX TELECOM OUTLET QUADRIPLEX TELECOM OUTLET

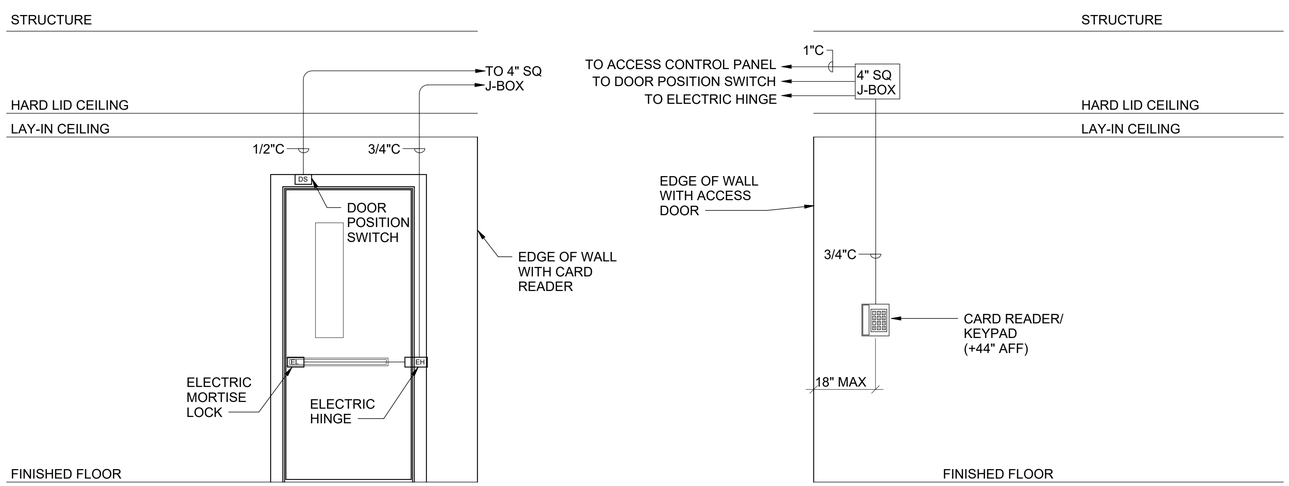
NOTE:
- MOUNT OUTLET AT 18" AFF UNLESS OTHERWISE NOTED.
- LABEL NETWORK PORTS AS INDICATED.
- INSTALL OUTLETS AT A 45 DEGREE ANGLE AWAY FROM WALL.

C1 COMMUNICATION WALL PLATES DETAIL
NTS



LABEL WITH BROTHER "P-TOUCH" SYSTEM. USE
CLEAR OR WHITE TAPE WITH BLACK LETTERING.

C3 DEVICES LABELING DETAIL
NTS



NOTES:
1. FIRE SEAL CONDUIT PENETRATION TO MAINTAIN RATING OF WALL WHERE APPLICABLE.
2. STUB OUT ALL CONDUITS AND INSTALL JUNCTION BOX ON SECURE SIDE OF DOOR WHERE APPLICABLE.

A1 ACCESS CONTROL DOORS DETAIL
NTS

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U.S. DEPARTMENT OF THE INTERIOR
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NIFC 300-JWH SUITE 222/227

NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management

3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: ELECTRICAL DETAILS

Designed by: D. SIMS
Drawn by: D. SIMS
Checked by: M. HADDAD
Approved by: SJBD

Revisions:

#	Description	Date
0	100% - ISSUED FOR CONSTRUCTION	05/2026

PROFESSIONAL ENGINEER
LICENSED
2061470
STATE OF IDAHO
MARIO HADDAD

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

E-501

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LUMINAIRE SCHEDULE									
TYPE	DESCRIPTION	LUMENS	CCT	CRI	WATTS	MOUNT TYPE	MOUNITNG HEIGHT	BASIS OF DESIGN	
E1	EXIT SIGN, NEMA 4X, WIRELESS NEXUS RF REPORTING, COMPATIBLE WITH EXISTING NEXUS WIRELESS SYSTEM IN OPERATION AT NIFC, WITH BRUSHED ALUMINUM FINISH, MVOLT	-	-	-	4	WALL	7'	EMERGI-LITE	WPREMNEXRFR
L1	LED 2X4 VOLUMETRIC TROFFER, RECESSED, SWITCHABLE LUMEN, 4000K, 90CRI, MVOLT	4000	4000K	90	32	RECESSED	CEILING	ACUITY BRANDS	2VTL4 40L LP940
L1NL	LED 2X4 VOLUMETRIC TROFFER, RECESSED, SWITCHABLE LUMEN, 4000K, 90CRI, MVOLT, WITH NIGHT LIGHTING CAPABILITIES	4000	4000K	90	32	RECESSED	CEILING	ACUITY BRANDS	2VTL4 40L LP940
L2	LED 3' VANITY FIXTURE, WALL MOUNTED, 4000K, 90CRI, MVOLT	4000	4000K	90	32	WALL	7'	LITHONIA	FMVCSL 36IN 40K
L3	6" WAFER LED DOWNLIGHT, RECESSED, 4000K, 90CRI, MVOLT	1500	4000K	90	15	RECESSED	CEILING	ACUITY BRANDS	WF6 LED SWW5 90CRI MW

ENERGY CODE LIGHT & RECEPT CONTROL SOO			
SPACE TYPE	TAG	SEQUENCE OF OPERATIONS	AVERAGE FOOTCANDLE RANGE
BREAKROOM/KITCHEN	BRK	1. LIGHTING AUTO ON FOR 50% ILLUMINATION AND CONTROLLED RECEPTACLES AUTO ON WHEN OCCUPANCY DETECTED.	10FC - 30FC
		2. MANUAL OVERRIDE ON/OFF AND BI-LEVEL 50% CONTROL OF GENERAL LIGHTING WITH WALL SWITCH OCCUPANCY SENSOR.	
		3. AUTO OFF ALL LIGHTING AND CONTROLLED RECEPTACLES WITHIN 15 MINUTES OF OCCUPANTS LEAVING.	
		4. NIGHT LIGHTING ASSIGNED LIGHTS STAY ON AT 50% ILLUMINATION WHEN THE ZONE IS OFF.	
MULTI-STALL RESTROOM	MRM	1. FOR EACH RESTROOM INDEPENDENTLY, LIGHTING AUTO ON TO 100% WHEN OCCUPANCY DETECTED.	10FC - 30FC
		2. MANUAL OVERRIDE ON/OFF WITH LOCAL CONTROL SWITCH.	
		3. CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED IN A CENTRAL LOCATION WITH DUAL MODE SENSING TO PREVENT LIGHTS FROM TURNING OFF WHEN AN OCCUPANT IS PRESENT IN A STALL.	
		4. AUTO OFF ALL LIGHTING AND EXHAUST FANS FOR EACH RESTROOM INDEPENDENTLY WITHIN 20 MINUTES OF OCCUPANTS LEAVING	
OPEN OFFICE	OPN	1. GENERAL LIGHTING AUTO ON TO 50% AND CONTROLLED RECEPTACLES AUTO ON WHEN OCCUPANCY DETECTED.	30FC - 50FC
		2. MANUAL OVERRIDE ON/OFF/DIM GENERAL LIGHTING WITH DIMMER SWITCHES.	
		3. LIGHTING IN PRIMARY AND SECONDARY DAYLIGHT ZONES WILL CONTINUOUSLY DIM BASED ON DAYLIGHT CONTRIBUTION TO MAINTAIN BETWEEN 35FC AND 50FC AT TASK LEVEL. RETAIN LAST USED DIMMING SETTING.	
		4. AUTO OFF ALL LIGHTING AND CONTROLLED RECEPTACLES WITHIN 20 MINUTES OF OCCUPANTS LEAVING.	
		5. NIGHT LIGHTING ASSIGNED LIGHTS STAY ON AT 50% ILLUMINATION WHEN THE ZONE IS OFF.	
SMALL PRIVATE OFFICE	SPO	1. LIGHTING AUTO ON TO 50% AND CONTROLLED RECEPTACLES AUTO ON WHEN OCCUPANCY DETECTED.	30FC - 50FC
		2. MANUAL OVERRIDE ON/OFF/DIM LIGHTING WITH WALL SWITCH OCCUPANCY SENSOR AND DIMMER SWITCH.	
		3. AUTO OFF ALL LIGHTING AND CONTROLLED RECEPTACLES WITHIN 20 MINUTES OF OCCUPANTS LEAVING.	
SUPPORT/STORAGE	SUP	1. LIGHTING AUTO ON WHEN OCCUPANCY DETECTED.	10FC - 30FC
		2. MANUAL OVERRIDE ON/OFF AND BI-LEVEL 50% CONTROL OF GENERAL LIGHTING WITH WALL SWITCH OCCUPANCY SENSOR.	
		3. AUTO OFF ALL LIGHTING AND CONTROLLED RECEPTACLES WITHIN 15 MINUTES OF OCCUPANTS LEAVING.	
LIGHTING CONTROL SEQUENCE OF OPERATIONS NOTES			
1. OPERATING HOURS AND CONTROL SCHEDULES ARE TO BE COORDINATED WITH GOVERNMENT. 2. DURING STARTUP, CONTRACTOR SHALL SET LIGHTS TO THE AVERAGE FOOTCANDLE RANGE LISTED, AND SET LIGHT LIMITS TO NOT EXCEED THE HIGHEST FOOTCANDLE LISTED.			

ROOM ENERGY CODE SOO SPACE TYPE		
NUMBER	NAME	SPACE TYPE
215	WOMEN	MRM
216	MEN	MRM
220	FOCUS	SUP
222	OPEN OFFICE	OPN
222C	OFFICE	SPO
222D	OFFICE	SPO
222E	OFFICE	SPO
222F	OFFICE	SPO
222G	OFFICE	SPO

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Project No. 070117.029
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NATIONAL INTERAGENCY FIRE CENTER
United States Department of the Interior Bureau of Land Management
3833 Development Ave, Boise, ID 83705 (208) 387-5512

Sheet Title: ELECTRICAL SCHEDULES

Designed by: D. SIMS
Drawn by: D. SIMS
Checked by: M. HADDAD
Approved by: SJBD

Revisions:

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PROFESSIONAL ENGINEER LICENSED 2061470 STATE OF IDAHO MARIO HADDAD

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

E-601

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Existing Branch Panel: HD

LOCATION: ELEC 232 **VOLTS:** 480Y/277V **MAINS TYPE:** MLO
SUPPLY FROM: MAIN SWITCHBOARD **PHASES:** 3 **MAINS RATING:** 225A
MOUNTING: Surface Mounted **WIRES:** 4

CKT NO	LOAD SERVED	TRIP AMPS	NO POLE	LOAD - V.A. A Ø		B Ø		C Ø		NO POLE	TRIP AMPS	LOAD SERVED	CKT NO
1	LIGHTING - 234, 229, 219, 212, 202, 218, 217	20A	1	2430	3000					1	20A	LIGHTING - 230, 233, 235	2
3	LIGHTING - 227, 228	20A	1			2280	2700			1	20A	LIGHTING - 214, 213	4
5	SPARE	20A	1						2100	1	20A	LIGHTING - 236, 210, 211	6
7	SPARE	20A	1							1	20A	SPARE	8
9	**VAV 2-2**	20A	1			**970**				1	20A	SPARE	10
11	**VAV 2-3**	20A	1					**582**		1	20A	SPARE	12
13	**VAV 2-10**	20A	1	**970**						1	20A	SPARE	14
15	VAV - 206	20A	1			4432				1	20A	SPARE	16
17	VAV - 206, 209	20A	1					4432		1	20A	SPARE	18
19	VAV - 230	20A	1	4432						1	20A	SPARE	20
21	VAV - 213	20A	1			4432				1		SPACE	22
23	VAV - 210	20A	1					4432		1		SPACE	24
25	SPACE		1		**23460**					3	60A	PANEL LD TRANSFORMER	26
27	SPACE		1				**20460**						28
29	SPACE		1						**25880**				30
	TOTAL LOAD PER PHASE:			34291.5		35273.5		37425.7					
	TOTAL AMPS PER PHASE:			123.7		127.3		135.0					
	TOTAL VOLT-AMPS:			106990.7						TOTAL AMPS:		128.7	

Existing Branch Panel: HF

LOCATION: ELEC 222B **VOLTS:** 480Y/277V **MAINS TYPE:** MLO
SUPPLY FROM: MAIN SWITCHBOARD **PHASES:** 3 **MAINS RATING:** 225A
MOUNTING: Surface Mounted **WIRES:** 4

CKT NO	LOAD SERVED	TRIP AMPS	NO POLE	LOAD - V.A. A Ø		B Ø		C Ø		NO POLE	TRIP AMPS	LOAD SERVED	CKT NO
1	LIGHTING - 156	20A	1	2280	2760					20A	1	LIGHTING	2
3	LIGHTING - 203, 205, 204	20A	1			3600	2460			20A	1	LIGHTING	4
5	SPARE	20A	1							20A	1	SPARE	6
7	SPARE	20A	1							20A	1	SPARE	8
9	VAV - 156	20A	1			4432	**970**			20A	1	**VAV 2-7**	10
11	**VAV 2-4**	20A	1					**582**	**582**	20A	1	**VAV 2-5**	12
13	**VAV 2-6**	20A	1	**970**	**1108**					20A	1	**VAV 2-21**	14
15	VAV - 203	20A	1			4432				20A	1	SPACE	16
17	VAV - 203	20A	1					4432		20A	1	SPACE	18
19	SPACE		1							20A	1	SPACE	20
21	SPACE		1							20A	1	SPACE	22
23	SPACE		1							20A	1	SPACE	24
25	SPACE		1		**19300**					3	60A	PANEL LF TRANSFORMER	26
27	SPACE		1				**20880**						28
29	SPACE		1						**17500**				30
	TOTAL LOAD PER PHASE:			26417.5		36773.5		23095.4					
	TOTAL AMPS PER PHASE:			95.4		132.8		83.4					
	TOTAL VOLT-AMPS:			86286.4						TOTAL AMPS:		103.8	

Existing Branch Panel: LD-1

LOCATION: ELEC 232 **VOLTS:** 208Y/120V **A.I.C. RATING:** TBD
SUPPLY FROM: PANEL HD **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: Surface Mounted **WIRES:** 4 **MAINS RATING:**
ENCLOSURE: NEMA 1 **MCB RATING:** 150A

CKT NO	LOAD SERVED	TRIP AMPS	NO POLE	LOAD - V.A. A Ø		B Ø		C Ø		NO POLE	TRIP AMPS	LOAD SERVED	CKT NO
1	EAST WALL OFFICE 230	20A	1	600	**540**					1	20A	**222 OPEN OFFICE ISOLATED GROUND CUB RCPT**	2
3	NORTH WALL OFFICE 230	20A	1			800	**540**			1	20A	**222 OPEN OFFICE CONTROLLED CUB RCPT**	4
5	TECH SUPPORT 233	20A	1					1000	**360**	1	20A	**222 OPEN OFFICE ISOLATED GROUND CUB RCPT**	6
7	SE WALL OFFICE 230	20A	1	800	1000					1	20A	GFI 215 & 216, STOR 218, JANITOR 217	8
9	SW WALL OFFICE 230	20A	1			800	1920			1	20A	DRINKING FOUNTAIN 219	10
11	NW WALL OFFICE 230	20A	1					800	**1800**	1	20A	**OFFICE 227**	12
13	ELECTRICAL RM 231, CORRIDOR 229	20A	1	600	800					1	20A	N WALL BRIEFING CENTER, WEST OFFICE 213	14
15	WEST WALL COPY CENTER 214	20A	1			500	1200			1	20A	NORTH & EAST WALLS OFFICE 213	16
17	TECH COMP 235, CORRIDOR 234 STRWY #2	20A	1					1200	**360**	1	20A	**222 OPEN OFFICE CONTROLLED CUB RCPT**	18
19	EAST WALL BREIFING RM 210	20A	1	1000	400					1	20A	NORTH WEST WALL BRIEFING RM 210	20
21	PROJECTOR RM 211	20A	1			400	600			1	20A	OVER COUNTER TOP COPY CENTER 214	22
23	PROJECTOR RM 211	20A	1					600	500	1	20A	NORTH WALL COPY RM 214	24
25	OFFICE RM 230	20A	1	1920	400					1	20A	TELEPHONE BOARD COMM RM 231A	26
27	OFFICE RM 230	20A	1			1920	400			1	20A	TELEPHONE BOARD COMM RM 231A	28
29	OFFICE RM 230	20A	1					1920	1920	1	20A	EF #1	30
	TOTAL LOAD PER PHASE:			8060		9080		10460					
	TOTAL AMPS PER PHASE:			67.2		75.7		87.2					
	TOTAL VOLT-AMPS:			27600						TOTAL AMPS:		76.6	

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PROFESSIONAL ENGINEER LICENSED 2061470 STATE OF IDAHO MARIO HADDAD

BLM Project # 140L062F0116
Project # 070117.029
Date: 05/08/2026

E-602

Sheet 85 of 86

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Existing Branch Panel: LD-2

LOCATION: ELEC 232
SUPPLY FROM: PANEL HD
MOUNTING: Surface Mounted
ENCLOSURE: NEMA 1

VOLTS: 208Y/120V
PHASES: 3
WIRES: 4

A.I.C. RATING: TBD
MAINS TYPE: MCB
MAINS RATING:
MCB RATING: 150A

CKT NO	LOAD SERVED	TRIP AMPS	NO POLE	LOAD - V.A. A Ø		B Ø		C Ø		NO POLE	TRIP AMPS	LOAD SERVED	CKT NO
31	RECEPTS-210, 236	20A	1	1000	1920					1	20A	EF #2 ROOF TOP	32
33	DRINKING FOUNTAIN 202	20A	1			1920	400			1	20A	EF #4 ROOF TOP	34
35	RECESSED LIGHTS RR2 RM 210	20A	1					1920	1920	1	20A	EF #3 ROOF TOP	36
37	RECESSED LIGHTS RR1 RM 211	20A	1	1920	1920					1	20A	EF #9 ELEC RM 231	38
39	COLOR TRAN PLUG STRIP RM 210	20A	1			1920	**540**			1	20A	**222 OPEN OFFICE ISOLATED GROUND CUB RCPT**	40
41	A/V T/C 1 RECEPTS 211	20A	1					1920	**540**	1	20A	**222 OPEN OFFICE CONTROLLED CUB RCPT**	42
43	TIME CLOCK EF ELEC 231	20A	1	1920	600					1	20A	TELEPHONE POWER POLE OFFICE 230	44
45	**FOCUS 220 RCPT**	20A	1			**1080**	600			1	20A	TELEPHONE POWER POLE OFFICE 230	46
47	A/V T/C 2 RECEPTS 231	20A	1					1920	1920	1	20A	AHU #1 & #2 DUCT SMOKE DETECTORS	48
49	BLM-PLANNING COPY & RESOURCES	20A	1	1920	1920					1	20A	213 SOUTH POWER POLE	50
51	BLM PLANNING OFFICE FURN	20A	1			1920	1920			1	20A	213 COPIER	52
53	A/V T/C 3 RECEPTS 211	20A	1					1920	1920	1	20A	213 NORTH POWER POLE	54
55	FIRE ALARM PNL B	20A	1	1920	**360**					1	20A	**222 OPEN OFFICE ISOLATED GROUND CUB RCPT**	56
57	**222 OPEN OFFICE ISOLATED GROUND CUB RCPT**	20A	1			**720**	**360**			1	20A	**222 OPEN OFFICE CONTROLLED CUB RCPT**	58
59	**222 OPEN OFFICE CONTROLLED CUB RCPT**	20A	1					**720**	**720**	1	20A	**222 OPEN OFFICE PRINTER & CONVENIENCE RCPT**	60
	TOTAL LOAD PER PHASE:			15400		11380		15420					
	TOTAL AMPS PER PHASE:			128.3		94.8		128.5					
	TOTAL VOLT-AMPS:			42200						TOTAL AMPS:		117.1	

Existing Branch Panel: LF-1

LOCATION: ELEC 222B
SUPPLY FROM: PANEL HF
MOUNTING: Surface Mounted
ENCLOSURE: NEMA 1

VOLTS: 208Y/120V
PHASES: 3
WIRES: 4

A.I.C. RATING: TBD
MAINS TYPE: MCB
MAINS RATING:
MCB RATING: 150A

CKT NO	LOAD SERVED	TRIP AMPS	NO POLE	LOAD - V.A. A Ø		B Ø		C Ø		NO POLE	TRIP AMPS	LOAD SERVED	CKT NO
1	**BREAKROOM 224 TV RCPT**	20A	1	**360**	**500**					1	20A	**BREAKROOM 224 REFRIGERATOR RCPT**	2
3	**BREAKROOM 224 REFRIGERATOR RCPT**	20A	1			**500**	**500**			1	20A	**BREAKROOM 224 REFRIGERATOR RCPT**	4
5	**BREAKROOM 224 COUNTER RCPT**	20A	1					**360**	**1000**	1	20A	**BREAKROOM 224 DISHWASHER RCPT**	6
7	REC VEST 201, STAIRWAY #1N, OPEN OFFICE 203	20A	1	800	**1260**					1	20A	**OFFICE 222C RCPT**	8
9	ROOM 204	20A	1			1000	**900**			1	20A	**OFFICE 222D & 222E RCPT**	10
11	SOUTH OFFICE 203	20A	1					1200	**500**	1	20A	**BREAKROOM 224 UNDER-SINK RCPT**	12
13	**222 OPEN OFFICE CONVENIENT RCPT**	20A	1	**540**	**360**					1	20A	**BREAKROOM 224 ABOVE COUNTER RCPT**	14
15	**SPARE**	20A	1			**-**	**900**			1	20A	**BREAKROOM 224 ABOVE RCPT**	16
17	VENDING LOUNGE 205	20A	1					500	800	1	20A	FIRE MANAGEMENT 226	18
19	NORTH OFFICE RM 203	20A	1	600	1920					1	20A	CONFERENCE RM 225	20
21	WEST OFFICE	20A	1			800	800			1	20A	ELECTRICAL RM 222B	22
23	WEST OFFICE	20A	1					600	1920	1	20A	OFFICE 222	24
25	OFFICE COPY MACHINE BLM BUDGET OFFICE	20A	1	1920	1920					1	20A	OFFICE 222	26
27	OFFICE COPY MACHINE BLM BUDGET OFFICE	20A	1			1920	1920			1	20A	OFFICE 222	28
29	OFFICE SPARE	20A	1						400	1	20A	COMM RM 222A, TELEPHONE BOARD	30
	TOTAL LOAD PER PHASE:			10180		9240		7280					
	TOTAL AMPS PER PHASE:			84.8		77.0		60.7					
	TOTAL VOLT-AMPS:			26700						TOTAL AMPS:		74.1	

Existing Branch Panel: LF-2

LOCATION: ELEC 222B
SUPPLY FROM: PANEL HF
MOUNTING: Surface Mounted
ENCLOSURE: NEMA 1

VOLTS: 208Y/120V
PHASES: 3
WIRES: 4

A.I.C. RATING: TBD
MAINS TYPE: MCB
MAINS RATING:
MCB RATING: 150A

CKT NO	LOAD SERVED	TRIP AMPS	NO POLE	LOAD - V.A. A Ø		B Ø		C Ø		NO POLE	TRIP AMPS	LOAD SERVED	CKT NO
31	VENDING RECEPTS 205	20A	1	500	400					1	20A	RECEPTS COMM RM 222 TELEPHONE BOARD	32
33	MICROWAVE BREAK RM	20A	1			1920	1920			1	20A	EF #6 ROOF TOP	34
35	MICROWAVE BREAK RM	20A	1					1920	200	1	20A	GFI RECEPTS ROOF TOP	36
37	**222 OPEN OFFICE ISOLATED GROUND CUB RCPT**	20A	1	**900**	1920					1	20A	EF #10 ELEC RM 222B	38
39	**222 OPEN OFFICE CONTROLLED CUB RCPT**	20A	1			**900**	**1260**			1	20A	**RECEPTS SOUTH WALL OFFICE 222 & OFFICE 222E**	40
41	**222 OPEN OFFICE ISOLATED GROUND CUB RCPT**	20A	1					**540**	**540**	1	20A	**222 OPEN OFFICE ISOLATED GROUND CUB RCPT**	42
43	**222 OPEN OFFICE CONTROLLED CUB RCPT**	20A	1	**540**	**540**					1	20A	**222 OPEN OFFICE CONTROLLED CUB RCPT**	44
45	**222 OPEN OFFICE ISOLATED GROUND CUB RCPT**	20A	1			**720**	**540**			1	20A	**222 OPEN OFFICE ISOLATED GROUND CUB RCPT**	46
47	**222 OPEN OFFICE CONTROLLED CUB RCPT**	20A	1					**720**	**540**	1	20A	**222 OPEN OFFICE CONTROLLED CUB RCPT**	48
49	**222 OPEN OFFICE ISOLATED GROUND CUB RCPT**	20A	1	**180**	**300**					1	20A	**EF-2**	50
51	**222 OPEN OFFICE CONTROLLED CUB RCPT**	20A	1			**180**	**360**			1	20A	**BREAKROOM 224 COUNTER RCPT**	52
53	COLOR TRAN PLUG STRIP MULTI-PURPOSE RM 156	20A	1					1920		1	20A	SPARE	54
55	LIGHTING RR4 MULTI-PURPOSE RM 156	20A	1	1920	1920					1	20A	RECEPTS RM 224	56
57	LIGHTING RR4 MULTI-PURPOSE RM 156	20A	1			1920	1920			1	20A	RECEPTS BREAK COUNTER	58
59	TRAC LIGHTS-TL-1 MULTI-PURPOSE RM 156	20A	1					1920	1920	1	20A	RECEPTS BREAK COUNTER	60
	TOTAL LOAD PER PHASE:			9120		11640		10220					
	TOTAL AMPS PER PHASE:			76.0		97.0		85.2					
	TOTAL VOLT-AMPS:			30980						TOTAL AMPS:		86.0	

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BLM Project # 140L062F0116
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Sheet 86 of 86

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