



STATE OF CALIFORNIA DEPARTMENT OF GENERAL SERVICES

**REAL ESTATE SERVICES DIVISION
PROJECT MANAGEMENT AND DEVELOPMENT BRANCH**

PROJECT MANUAL – Book IV of IV

INTRODUCTORY INFORMATION
APPENDICES (Continued)

APPENDIX 2 – REQUESTS FOR INFORMATION (RFI) RESPONSES TO KAZONI
AND TO S.J. AMOROSO

FOR:

DSH METROPOLITAN SNF BLDG REPAIR PROJECT

DEPARTMENT OF STATE HOSPITALS

11401 BLOOMFIELD AVE

**NORWALK, LOS ANGELES COUNTY, CALIFORNIA
90650**

Thomas Brunet, Project Director
West Sacramento, California

Consultants: J C Chang and Associates, Inc.

May 2022

DGS00000142412C

DOCUMENT 00 01 01

PROJECT TITLE PAGE

Title: DSH METROPOLITAN SNF BLDG REPAIR PROJECT

Client Agency: DEPARTMENT OF STATE HOSPITALS

Location: 11401 BLOOMFIELD AVE, NORWALK CA ,
LOS ANGELES COUNTY, CALIFORNIA

Project Number : DGS00000142412C

Project Director : Thomas Brunet
State of California
Department of General Services
Real Estate Services Division
Project Management and Development Branch
707 Third Street, 4th Floor
West Sacramento, California 95605
Telephone Number: (916) 995-2993
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Consultant : J C Chang & Associates Inc.
Ramy Eskander
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Torrance, California 90501
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CERTIFICATIONS PAGE

PROJECT TITLE : DSH METROPOLITAN SNF BLDG REPAIR PROJECT

CLIENT AGENCY : DEPARTMENT OF STATE HOSPITALS


LOCATION : NORWALK CA, LOS ANGELES COUNTY, CALIFORNIA

PROJECT NUMBER : DGS00000142412C

OWNER : STATE OF CALIFORNIA

PROJECT DIRECTOR : Thomas Brunet
 Department of General Services
 Project Management and Development Branch
 707 Third Street, 4th Floor
 West Sacramento, California 95605
 Telephone Number: (916) 995-2993
 Email : thomas.brunet@dgs.ca.gov

CONSULTANT : J C Chang & Associates Inc.
 Ramy Eskander

		
ARCHITECT	CIVIL ENGINEER	STRUCTURAL ENGINEER
ELECTRICAL ENGINEER	MECHANICAL ENGINEER	LANDSCAPE ARCHITECT

PROJECT TITLE : DSH METROPOLITAN SNF BLDG REPAIR PROJECT
 CLIENT AGENCY : DEPARTMENT OF STATE HOSPITALS
 LOCATION : NORWALK CA, LOS ANGELES COUNTY, CALIFORNIA
 PROJECT NO. : DGS00000142412C

REGULATORY REVIEWS:

<p>Office of the State Fire Marshal Reviewed, No Exception Taken Jason Chavez, DSFM III Date <u>6/13/2022</u></p>	
<p>STATE FIRE MARSHAL</p>	<p>ACCESS COMPLIANCE</p>
<p>OSHPD</p>	

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RESDMSTR: 02/03/2014

DGS00000142142C

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END OF DOCUMENT



Kazoni Inc.
Powered by RedTeam

REQUEST FOR INFORMATION

REQUEST FOR INFORMATION

Date:	07/14/2023	RFI #:	016
To:	Department of General Services	Project #:	1590014
Attention:	Suhas Karke	Required by:	07/20/2023
Phone:			
Project:	DSH METROPOLITAN SNF BLDG REPAIR PROJECT, DEPARTMENT OF STATE HOSPITALS		
By:	Keith Kulpinski, Vice President		

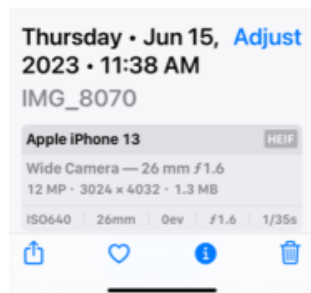
Subject:	Millwork Damage
Ref:	

Attachment(s):

- IMG_8144

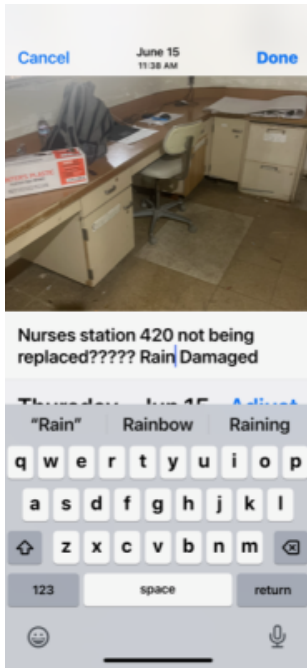


Nurses station 420 not being replaced???? RAIN DAMAGED



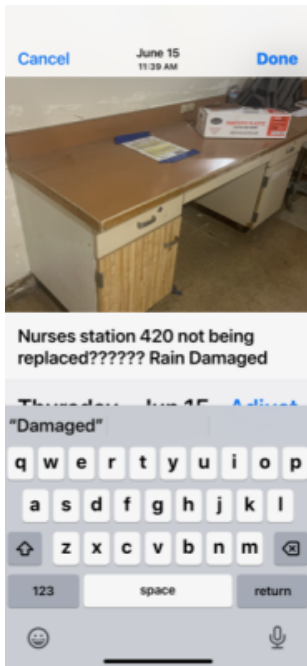
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- IMG_8145



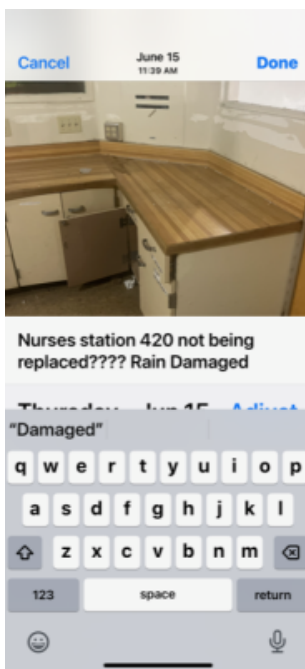
<https://redteam.link/loxvn68>

- IMG_8146



<https://redteam.link/nufrv6c>

- IMG_8147



<https://redteam.link/k3qxjwy>

Information Requested/Description:

- 1.) Due to the continuous water intrusion into the building, unit(s) 417, 418 & 419 Nurses Stations have been severely damaged.
- 2.) No work in unit 420 nurses station(s) was in original documents but due to the water intrusion they have been damaged.

Suggestion:

- 1.) Replace all millwork in nurses stations for units 417, 418 & 419.
- 2.) Replace all millwork in nurses stations for unit 420.

Please advise.

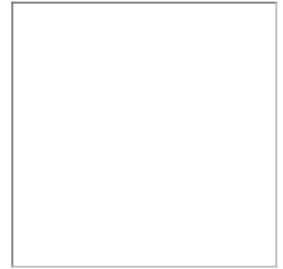
Response:

- 1) As indicated on sheet A4.2, A4.3 and A4.4, replace the water damaged nurse station for units 417, 418 & 419.
- 2) Replace the water damaged nurse station for units 420. Please also obtain approval from PM and DSH.

[MJ Kang, Architect 2023-07-21](#)

RFI detail

#39 Door Schedule



Status	 Open In Review
Created on	Dec 27, 2023 by Jillyan Mina (Kazoni Inc. dba Kazoni Construction)
Ball in court	Jillyan Mina (Kazoni Inc. dba Kazoni Construction) Keith Kulpinski (Kazoni Inc. dba Kazoni Construction) April Kulpinski (Kazoni Inc. dba Kazoni Construction)
Due date	Jan 10, 2024

Question

Please provide complete door & hardware schedule that lists all doors, door sizes, fire ratings & new hardware required for each door (with manufacture and model #s).

Suggested answer

Please provide.

Impact

Cost impact	Yes
Schedule impact	Yes

Other attributes

Priority	High
Discipline	-
Category	-
Location	SNF Building Repair Project
Location details	-
External id	-
Co-reviewer(s)	

Please find attached door schedule provided by Asa-Abloy.

Ramy Eskander

02/01/2023

080610 - Door Schedule Report

Project Name: DSH-METROPOLITAN SNF BLDG

Project ID: 196636

OPENING INFORMATION

Mark	Building	Unit #	Qty	Configuration	Width	Height	Thickness	Fire Rating	Wall Thickness	Door Material	Frame Material	Hardware	Note1	Note2	Note3
417-101A	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	81.0	Replace Door		
417-101B	SNF	417	1	AI	6' 0"	7' 0"	1 3/4"		4 3/4"	Hollow Metal	Hollow Metal	12.0	Replace Closer Adjust to new		
417-101C	SNF	417	1	AI	6' 0"	7' 0"	1 3/4"	None	4 3/4"	Hollow Metal	Hollow Metal	10.0	Replace Door and Frame		
417-101D	SNF	417	1	SG	3' 6"	7' 0"	1 3/4"	None	4 3/4"	Hollow Metal	Hollow Metal	13.0	Replace Door	Water Damage	
417-101E	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Hollow Metal	Hollow Metal	78.0	Replace Door	Water Damage	
417-102	SNF	417	1	SG	2' 6"	6' 8"	1 3/4"	60	4 3/4"	Wood	Hollow Metal	69.0	Replace Door	Water Damage	
417-103	SNF	417	1	SG	2' 7"	8' 0"	1"		4 3/4"	Wood	None	88.0	Replace Door and Frame		Custom door and frame
417-104A	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	62.0	Replace Door	Water Damage	
417-104B	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"		4 3/4"	Wood	Hollow Metal	71.0	Replace Door	Water Damage	
417-107A	SNF	417	1	SG	3' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	81.0	Replace Door		
417-107B	SNF	417	1	SG	3' 6"	7' 0"	1 3/4"		4 3/4"	Existing	Hollow Metal	87.0	Compliant		
417-108	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Hollow Metal	Hollow Metal	7.0	Relabel Door and Frame		
417-109	SNF	417	1	AI	4' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	60.0	Replace Door	Water Damage	
417-110	SNF	417	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	62.0	Replace Door	Water Damage	
417-111	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	62.0	Replace Door	Water Damage	
417-112	SNF	417	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door		
417-113	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	82.0	Replace Door		
417-114	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	52.0	Replace Door		
417-115	SNF	417	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	32.0	Replace Door, Label Frame		
417-116	SNF	417	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	32.0	Replace Door, Label Frame		
417-117	SNF	417	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	32.0	Replace Door, Label Frame		
417-118	SNF	417	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	32.0	Replace Door, Label Frame		
417-119	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	55.0	Replace Door	Water Damage	
417-120	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	60	4 3/4"	Wood	Hollow Metal	59.0	Replace Door	Water Damage	
417-121	SNF	417	1	SG	3' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	77.0	Replace Door		
417-121A	SNF	417	1	SG	3' 6"	7' 0"	1 3/4"		4 3/4"	Existing	Hollow Metal	87.0	Compliant		
417-122	SNF	417	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	41.0	Replace Door	Water Damage	

080610 - Door Schedule Report

Project Name: DSH-METROPOLITAN SNF BLDG

Project ID: 196636

417-123	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	None	4 3/4"	Hollow Metal	Hollow Metal	7.0	Adjust to new		
417-124	SNF	417	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door, Label Frame		
417-125	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door	Water Damage	
417-126	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	59.0	Replace Door, Label Frame		
417-127	SNF	417	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door, Label Frame		
419-128	SNF	419	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	25.0	Replace Door, Label Frame		
419-129	SNF	419	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	25.0	Replace Door, Label Frame		
419-130	SNF	419	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	25.0	Replace Door, Label Frame		
417-131A	SNF	417	1	SG	4' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	82.0	Replace Door		
417-132	SNF	417	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	53.0	Replace Door	Water Damage	
417-133	SNF	417	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door, Label Frame	Water Damage	
417-134	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	86.0	Replace Door	Water Damage	
417-135	SNF	417	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door, Label Frame	Water Damage	
417-136	SNF	417	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	32.0	Replace Door, Label Frame	Water Damage	
417-137	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	62.0	Replace Door, Label Frame	Water Damage	
417-139	SNF	417	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door, Label Frame	Water Damage	
417-140	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	82.0	Replace Door, Label Frame		
417-141	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	62.0	Replace Door	Water Damage	
417-142	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Hollow Metal	Hollow Metal	66.0	Label Frame		
417-143	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	85.0	Replace Door, Label Frame	Water Damage	
417-144	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"		4 3/4"	Wood	Hollow Metal	86.0	Replace Door	Water Damage	
417-145	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	59.0	Replace Door, Label Frame		
417-146	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	59.0	Replace Door, Label Frame	Water Damage	
417-147	SNF	417	1	SG	2' 6"	6' 8"	1 3/4"	60	4 3/4"	Wood	Hollow Metal	48.0	Replace Door	Water Damage	
417-148	SNF	417	1	AI	4' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	34.0	Replace Door, Label Frame	Water Damage	
417-149	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"		4 3/4"	Wood	Hollow Metal	29.0	Replace Door	Water Damage	
417-150	SNF	417	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	68.0	Replace Door and Frame	Water Damage	
417-151	SNF	417	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	68.0	Replace Door, Label Frame	Water Damage	

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417-152	SNF	417	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	33.0	Replace Door, Label Frame		
417-153	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	32.0	Replace Door, Label Frame	Water Damage	
417-154	SNF	417	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	32.0	Replace Door, Label Frame	Water Damage	
417-155	SNF	417	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	32.0	Replace Door, Label Frame		
417-156	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	59.0	Replace Door, Label Frame	Water Damage	
417-157	SNF	417	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	59.0	Replace Door, Label Frame		
417-C100	SNF	417	1	DE	7' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	19.0	Replace Door, Label Frame	Water Damage	
418-101A	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	77.0	Replace Door and Frame	Water Damage	
418-101B	SNF	418	1	SG	3' 6"	7' 0"	1 3/4"		4 3/4"	Hollow Metal	Hollow Metal	17.0	Replace Door	Water Damage	
418-101C	SNF	418	1	AI	6' 0"	7' 0"	1 3/4"		4 3/4"	Existing	Hollow Metal	87.0	Compliant		
418-101D	SNF	418	1	AI	6' 0"	7' 0"	1 3/4"	None	4 3/4"	Existing	Hollow Metal	87.0	Compliant		
418-101E	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Hollow Metal	Hollow Metal	79.0	Replace Door	Water Damage	
418-102	SNF	418	1	SG	2' 6"	6' 8"	1 3/4"	60	4 3/4"	Wood	Hollow Metal	36.0	Replace Door and Frame	Water Damage	
418-103	SNF	418	1	SG	2' 7"	8' 0"	1"		4 3/4"	Wood	None	88.0	Replace Door and Frame	Water Damage	Custom door and frame
418-104A	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Hollow Metal	Hollow Metal	57.0	Replace Door		
418-104B	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	55.0	Replace Door, Label Frame	Water Damage	
418-107	SNF	418	1	SG	3' 8"	7' 0"	1 3/4"		4 3/4"	Hollow Metal	Hollow Metal	4.0	Adjust to new		
418-108	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	90	4 3/4"	Hollow Metal	Hollow Metal	2.0	Replace Door		
418-109	SNF	418	1	AI	4' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	61.0	Replace Door	Water Damage	
418-110	SNF	418	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	41.0	Replace Door	Water Damage	
418-111	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	51.0	Replace Door		
418-112	SNF	418	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door		
418-113	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	55.0	Replace Door	Water Damage	
418-114	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Existing	Hollow Metal	87.0	Compliant		
418-115	SNF	418	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	24.0	Replace Door		
418-116	SNF	418	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	54.0	Replace Door		
418-117	SNF	418	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	25.0	Replace Door		
418-118	SNF	418	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	25.0	Replace Door		
418-120A	SNF	418	1	SG	3' 6"	7' 0"	1 3/4"	None	4 3/4"	Existing	Hollow Metal	87.0	Compliant		
418-121	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	62.0	Replace Door		
418-122	SNF	418	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	41.0	Replace Door	Water Damage	
418-123	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	90	4 3/4"	Hollow Metal	Hollow Metal	6.0	Replace Door	Water Damage	

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418-124	SNF	418	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door, Label Frame	
418-125	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	24.0	Replace Door	Water Damage
418-126	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	51.0	Replace Door	Water Damage
418-127	SNF	418	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	24.0	Replace Door, Label Frame	
418-128	SNF	418	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	24.0	Replace Door, Label Frame	Water Damage
418-129	SNF	418	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	24.0	Replace Door	Water Damage
418-130	SNF	418	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	24.0	Replace Door, Label Frame	Water Damage
418-132	SNF	418	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	55.0	Replace Door	Water Damage
418-133	SNF	418	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door, Label Frame	Water Damage
418-134	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	83.0	Replace Door	Water Damage
418-135	SNF	418	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	32.0	Replace Door	
418-136	SNF	418	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	25.0	Replace Door	
418-137	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Existing	Hollow Metal	87.0	Compliant	
418-139	SNF	418	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	27.0	Replace Door, Label Frame	Water Damage
418-140	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	58.0	Replace Door	
418-141	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	58.0	Replace Door	Water Damage
418-142	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Existing	Hollow Metal	87.0	Compliant	
418-143	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Existing	Hollow Metal	87.0	Compliant	
418-144	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	70.0	Replace Door, Label Frame	
418-145	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	58.0	Replace Door	Water Damage
418-146	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	60	4 3/4"	Wood	Hollow Metal	41.0	Replace Door and Frame	Water Damage
418-147	SNF	418	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	42.0	Replace Door	
418-148	SNF	418	1	AI	4' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	49.0	Replace Door	Water Damage
418-149	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	30.0	Replace Door, Label Frame	
418-150	SNF	418	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door	
418-151	SNF	418	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	29.0	Replace Door	Water Damage
418-152	SNF	418	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	28.0	Replace Door	
418-153	SNF	418	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	25.0	Replace Door	
418-154	SNF	418	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	25.0	Replace Door	
418-155	SNF	418	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	25.0	Replace Door	
418-156	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Existing	Hollow Metal	87.0	Compliant	
418-157	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Existing	Hollow Metal	87.0	Compliant	
418-162	SNF	418	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	55.0	Replace Door	
418-C100	SNF	418	1	DE	6' 0"	6' 8"	1 3/4"	20	4 3/4"	Hollow Metal	Hollow Metal	18.0	Replace Door	Water Damage

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419-101A	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	59.0	Replace Door	Water Damage	
419-101B	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	80.0	Replace Door		
419-101C	SNF	419	1	SG	3' 8"	7' 0"	1 3/4"		4 3/4"	Hollow Metal	Hollow Metal	14.0	Replace Door	Water Damage	
419-101D	SNF	419	1	AI	6' 0"	7' 0"	1 3/4"		4 3/4"	Existing	Hollow Metal	87.0	Compliant		
419-101E	SNF	419	1	AI	6' 0"	6' 8"	1 3/4"		4 3/4"	Hollow Metal	Hollow Metal	11.0	Adjust to new		
419-102	SNF	419	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	69.0	Relabel Door and Frame		
419-103	SNF	419	1	SG	2' 7"	8' 0"	1"		4 3/4"	Wood	None	88.0	Replace Door and Frame		Custom door and frame
419-104A	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Hollow Metal	Hollow Metal	78.0	Relabel Door and Frame		
419-104B	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	None	4 3/4"	Existing	Hollow Metal	87.0	Compliant		
419-107A	SNF	419	1	SG	3' 0"	7' 0"	1 3/4"		4 3/4"	Hollow Metal	Hollow Metal	3.0	Adjust to new		
419-108	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	90	4 3/4"	Hollow Metal	Hollow Metal	2.0	Replace Door		
419-109	SNF	419	1	AI	4' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	60.0	Replace Door, Label Frame		
419-110	SNF	419	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	55.0	Replace Door	Water Damage	
419-111	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	52.0	Replace Door	Water Damage	
419-112	SNF	419	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door	Water Damage	
419-113	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	26.0	Replace Door		
419-114	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	52.0	Replace Door		
419-115	SNF	419	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	24.0	Replace Door		
419-116	SNF	419	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	25.0	Replace Door		
419-117	SNF	419	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	28.0	Replace Door		
419-118	SNF	419	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	25.0	Replace Door		
419-120A	SNF	419	1	SG	3' 8"	7' 0"	1 3/4"		4 3/4"	Hollow Metal	Hollow Metal	8.0	Replace Door	Water Damage	
419-121	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	90	4 3/4"	Wood	Hollow Metal	62.0	Replace Door		
419-122	SNF	419	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Existing	Hollow Metal	87.0	Compliant		
419-123	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	90	4 3/4"	Hollow Metal	Hollow Metal	7.0	Replace Door		
419-124	SNF	419	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door, Label Frame		
419-125	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	24.0	Replace Door		
419-126	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Existing	Hollow Metal	87.0	Compliant		
419-127	SNF	419	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	24.0	Replace Door, Label Frame	Water Damage	
417-128	SNF	417	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door, Label Frame		
417-129	SNF	417	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	67.0	Replace Door, Label Frame	Water Damage	
417-130	SNF	417	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door, Label Frame	Water Damage	
419-132	SNF	419	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Hollow Metal	Hollow Metal	55.0	Replace Door and Frame	Water Damage	

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419-133	SNF	419	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door	
419-134	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	83.0	Replace Door	Water Damage
419-135	SNF	419	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door, Label Frame	
419-136	SNF	419	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	24.0	Replace Door, Label Frame	Water Damage
419-137	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Existing	Hollow Metal	87.0	Compliant	
419-139	SNF	419	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	24.0	Replace Door	
419-140	SNF	419	1	SG	3' 0"	7' 0"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	58.0	Replace Door	Water Damage
419-141	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	59.0	Replace Door, Label Frame	Water Damage
419-142	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Hollow Metal	Hollow Metal	65.0	Replace Door	
419-143	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	84.0	Replace Door	Water Damage
419-145	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	58.0	Replace Door	Water Damage
419-144	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	None	4 3/4"	Existing	Hollow Metal	87.0	Compliant	
419-146	SNF	419	1	SG	3' 0"	7' 0"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	55.0	Relabel Door and Frame	
419-147	SNF	419	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	41.0	Replace Door, Label Frame	Water Damage
419-148	SNF	419	1	AI	4' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	35.0	Replace Door, Label Frame	
419-149	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"		4 3/4"	Wood	Hollow Metal	30.0	Adjust to new	
419-150	SNF	419	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door, Label Frame	Water Damage
419-151	SNF	419	1	SG	3' 8"	6' 8"	1 3/4"		4 3/4"	Wood	Hollow Metal	22.0	Replace Door, Label Frame	
419-152	SNF	419	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	28.0	Replace Door, Label Frame	
419-153	SNF	419	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	25.0	Replace Door	
419-154	SNF	419	1	SG	3' 8"	6' 8"	1 3/4"		4 3/4"	Wood	Hollow Metal	25.0	Replace Door	
419-155	SNF	419	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	25.0	Replace Door, Label Frame	
419-156	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	58.0	Replace Door	
419-157	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	58.0	Replace Door	Water Damage
419-158	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	55.0	Adjust to new	
419-162	SNF	419	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	55.0	Adjust to new	
419-C100	SNF	419	1	AA	7' 4"	6' 8"	1 3/4"	20	4 3/4"	Hollow Metal	Hollow Metal	18.0	Replace Door	Water Damage
420-101A	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	77.0	Replace Door	Water Damage
420-101B	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	82.0	Replace Door, Label Frame	
420-101C	SNF	420	1	AI	6' 0"	7' 0"	1 3/4"		4 3/4"	Existing	Hollow Metal	87.0	Compliant	
420-101D	SNF	420	1	AI	6' 0"	7' 0"	1 3/4"	None	4 3/4"	Hollow Metal	Hollow Metal	16.0	Replace Door	Water Damage
420-101E	SNF	420	1	SG	3' 6"	7' 0"	1 3/4"		4 3/4"	Hollow Metal	Hollow Metal	15.0	Replace Door	Water Damage
420-102	SNF	420	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	69.0	Replace Door, Label Frame	Water Damage

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420-103	SNF	420	1	SG	2' 7"	8' 0"	1"	None	4 3/4"	Wood	None	88.0	Replace Door and Frame		Custom door and frame
420-104A	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	59.0	Replace Door, Label Frame		
420-104B	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"		4 3/4"	Hollow Metal	Hollow Metal	40.0	Replace Door	Water Damage	
420-107	SNF	420	1	SG	3' 6"	7' 0"	1 3/4"		4 3/4"	Existing	Hollow Metal	87.0	Compliant		
420-108	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	90	4 3/4"	Hollow Metal	Hollow Metal	2.0	Replace Door		
420-109	SNF	420	1	AI	4' 8"	6' 8"	1 3/4"	60	4 3/4"	Wood	Hollow Metal	60.0	Replace Door, Label Frame	Water Damage	
420-110	SNF	420	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	56.0	Replace Door, Label Frame		
420-111	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	53.0	Replace Door, Label Frame		
420-112	SNF	420	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door, Label Frame		
420-113	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	23.0	Replace Door, Label Frame	Water Damage	
420-114	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Existing	Hollow Metal	87.0	Compliant		
420-115	SNF	420	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	52.0	Replace Door, Label Frame	Water Damage	
420-116	SNF	420	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	21.0	Replace Door, Label Frame	Water Damage	
420-117	SNF	420	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	21.0	Replace Door, Label Frame		
420-118	SNF	420	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	21.0	Replace Door, Label Frame		
420-120A	SNF	420	1	SG	3' 6"	7' 0"	1 3/4"	None	4 3/4"	Existing	Hollow Metal	87.0	Compliant		
420-121	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	46.0	Replace Door, Label Frame	Water Damage	
420-122	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	45.0	Replace Door, Label Frame	Water Damage	
420-123	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	90	4 3/4"	Existing	Hollow Metal	87.0	Compliant		
420-124	SNF	420	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door, Label Frame	Water Damage	
420-125	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door, Label Frame	Water Damage	
420-126	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	41.0	Replace Door	Water Damage	
420-127	SNF	420	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	67.0	Replace Door, Label Frame	Water Damage	
420-128	SNF	420	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	68.0	Replace Door, Label Frame	Water Damage	
420-129	SNF	420	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	68.0	Replace Door, Label Frame	Water Damage	
420-130	SNF	420	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	68.0	Replace Door, Label Frame	Water Damage	
420-132	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	56.0	Relabel Frame		

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420-133	SNF	420	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	76.0	Replace Door, Label Frame		
420-134	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	83.0	Replace Door, Label Frame		
420-135	SNF	420	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	31.0	Replace Door, Label Frame	Water Damage	
420-136	SNF	420	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	21.0	Replace Door, Label Frame		
420-137	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	62.0	Replace Door, Label Frame		
420-139	SNF	420	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	59.0	Replace Door, Label Frame	Water Damage	
420-140	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	23.0	Replace Door, Label Frame		
420-141	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	59.0	Replace Door, Label Frame		
420-142	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Hollow Metal	Hollow Metal	66.0	Replace Door	Water Damage	
420-143	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	84.0	Replace Door, Label Frame	Water Damage	
420-144	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	None	4 3/4"	Existing	Hollow Metal	87.0	Compliant		
420-145	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	62.0	Replace Door		
420-146	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	50.0	Replace Door		
420-147	SNF	420	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	43.0	Replace Door, Label Frame		
420-148	SNF	420	1	AI	4' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	34.0	Replace Door, Label Frame	Water Damage	
420-149	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	None	4 3/4"	Wood	Hollow Metal	30.0	Repair to new		
420-150	SNF	420	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	68.0	Replace Door, Label Frame	Water Damage	
420-151	SNF	420	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	54.0	Replace Door, Label Frame	Water Damage	
420-152	SNF	420	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	68.0	Replace Door	Water Damage	
420-153	SNF	420	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	68.0	Replace Door, Label Frame		
420-154	SNF	420	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	68.0	Replace Door, Label Frame	Water Damage	
420-155	SNF	420	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Existing	Hollow Metal	87.0	Compliant		
420-156	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	62.0	Replace Door, Label Frame	Water Damage	
420-157	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Existing	Hollow Metal	87.0	Compliant		
420-158	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	44.0	Replace Door	Water Damage	
420-162	SNF	420	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	47.0	Relabel Frame		
420-C100	SNF	420	1	DE	6' 0"	6' 8"	1 3/4"	20	4 3/4"	Hollow Metal	Hollow Metal	18.0	Relabel Door and Frame		
A-101	SNF	A	1	SG	3' 8"	6' 8"	1 3/4"		4 3/4"	Wood	Hollow Metal	5.0	Replace Door	Water Damage	
A-102	SNF	A	1	SG	3' 0"	6' 8"	1 3/4"	None	4 3/4"	Wood	Hollow Metal	64.0	Adjust to new		

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A-103	SNF	A	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	52.0	Replace Door, Label Frame		
A-104	SNF	A	1	SG	3' 0"	6' 8"	1 3/4"		4 3/4"	Wood	Hollow Metal	36.0	Replace Door	Water Damage	
A-105	SNF	A	1	SG	3' 0"	6' 8"	1 3/4"		4 3/4"	Existing	Hollow Metal	87.0	Compliant		
A-114	SNF	A	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	36.0	Replace Door, Label Frame	Water Damage	
A-116	SNF	A	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	36.0	Replace Door, Label Frame	Water Damage	
A-118	SNF	A	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	63.0	Replace Door, Label Frame	Water Damage	
A-119	SNF	A	1	SG	3' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	39.0	Replace Door, Label Frame	Water Damage	
A-120A	SNF	A	1	AI	6' 0"	7' 0"	1 3/4"		4 3/4"	FRP	Hollow Metal	9.0	Replace Pull		
A-120B	SNF	A	1	SG	3' 10"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	75.0	Replace Door	Water Damage	
A-120C	SNF	A	1	AI	6' 0"	7' 0"	1 3/4"		4 3/4"	Existing	Hollow Metal	87.0	Compliant		
A-122	SNF	A	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	38.0	Replace Door, Label Frame	Water Damage	
A-123	SNF	A	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	41.0	Replace Door, Label Frame	Water Damage	
A-124	SNF	A	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	48.0	Replace Door, Label Frame	Water Damage	
A-131B	SNF	A	1	SG	3' 8"	6' 8"	1 3/4"		4 3/4"	Existing	Hollow Metal	87.0	Compliant		
A-136A	SNF	A	1	SG	3' 0"	6' 8"	1 3/4"		4 3/4"	Existing	Hollow Metal	87.0	Compliant		
A-136B	SNF	A	1	SG	3' 0"	6' 8"	1 3/4"	60	4 3/4"	Wood	Hollow Metal	55.0	Replace Door, Label Frame	Water Damage	
A-136C	SNF	A	1	SG	3' 10"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	75.0	Replace Door, Label Frame	Water Damage	
A-136D	SNF	A	1	AI	6' 0"	7' 0"	1 3/4"		4 3/4"	Existing	Hollow Metal	87.0	Compliant		
A-142A	SNF	A	1	AI	7' 0"	7' 0"	1 3/4"		4 3/4"	Hollow Metal	Hollow Metal	1.0	Replace Door	Water Damage	
A-142B	SNF	A	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Hollow Metal	Hollow Metal	37.0	Replace Door and Frame	Water Damage	
A-143A	SNF	A	1	SG	3' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	74.0	Replace Door, Label Frame	Water Damage	
A-143B	SNF	A	1	SG	3' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	74.0	Replace Door, Label Frame		
A-145	SNF	A	1	SG	3' 0"	6' 8"	1 3/4"		4 3/4"	Existing	Hollow Metal	87.0	Compliant		
A-146	SNF	A	1	SG	3' 0"	6' 8"	1 3/4"		4 3/4"	Wood	Hollow Metal	41.0	Adjust to new	Water Damage	
A-147A	SNF	A	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	73.0	Replace Door, Label Frame		
A-147B	SNF	A	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	73.0	Replace Door, Label Frame		
A-148A	SNF	A	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	74.0	Replace Door, Label Frame		
A-148B	SNF	A	1	SG	3' 8"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	74.0	Replace Door, Label Frame		
A-149	SNF	A	1	SG	3' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	20.0	Replace Door, Label Frame		

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A-150	SNF	A	1	SG	3' 0"	6' 8"	1 3/4"		4 3/4"	Wood	Hollow Metal	41.0	Repair to new		
A-151	SNF	A	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	36.0	Adjust to new		
A-159	SNF	A	1	SG	3' 0"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	41.0	Replace Door, Label Frame		
A-160	SNF	A	1	SG	3' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	36.0	Replace Door, Label Frame	Water Damage	
A-160A	SNF	A	1	AI	6' 0"	7' 0"	1 3/4"		4 3/4"	Existing	Hollow Metal	87.0	Compliant		
A-161	SNF	A	1	SG	2' 6"	6' 8"	1 3/4"	20	4 3/4"	Wood	Hollow Metal	36.0	Replace Door, Label Frame		
A-418	SNF	A	1	SG	3' 10"	6' 8"	1 3/4"		4 3/4"	FRP	Hollow Metal	72.0	Adjust to new		
A-419	SNF	A	1	SG	3' 8"	6' 8"	1 3/4"		4 3/4"	FRP	Hollow Metal	72.0	Adjust to new		
A-420	SNF	A	1	SG	3' 10"	6' 8"	1 3/4"	None	4 3/4"	FRP	Hollow Metal	72.0	Repair to new		

SECTION 081113 - HOLLOW METAL DOORS AND FRAMES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Standard and custom hollow metal doors and frames.
2. Steel sidelight, borrowed lite and transom frames.
3. Louvers installed in hollow metal doors.
4. Light frames and glazing installed in hollow metal doors.

B. Related Sections:

1. Division 01 Section "General Conditions".
2. Division 04 Section "Unit Masonry" for embedding anchors for hollow metal work into masonry construction.
3. Division 08 Section "Flush Wood Doors".
4. Division 08 Section "Glazing" for glass view panels in hollow metal doors.
5. Division 08 Section "Door Hardware".
6. Division 08 Section "Access Control Hardware".
7. Division 09 Sections "Exterior Painting" and "Interior Painting" for field painting hollow metal doors and frames.

C. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI/SDI A250.8 - Recommended Specifications for Standard Steel Doors and Frames.
2. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames, Frames Anchors and Hardware Reinforcing.
3. ANSI/SDI A250.6 - Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames.
4. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames.
5. ANSI/SDI A250.11 - Recommended Erection Instructions for Steel Frames.
6. ASTM A1008 - Standard Specification for Steel Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.
7. ASTM A653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

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8. ASTM A924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
9. ASTM C 1363 - Standard Test Method for Thermal Performance of Building Assemblies by Means of a Hot Box Apparatus.
10. ANSI/BHMA A156.115 - Hardware Preparation in Steel Doors and Frames.
11. ANSI/SDI 122 - Installation and Troubleshooting Guide for Standard Steel Doors and Frames.
12. ANSI/NFPA 80 - Standard for Fire Doors and Fire Windows; National Fire Protection Association.
13. ANSI/NFPA 105: Standard for the Installation of Smoke Door Assemblies.
14. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; National Fire Protection Association.
15. UL 10C - Positive Pressure Fire Tests of Door Assemblies.
16. UL 1784 - Standard for Air Leakage Tests of Door Assemblies.

1.3 QUALITY ASSURANCE

- A. Source Limitations: Obtain hollow metal doors and frames through one source from a single manufacturer wherever possible.
- B. Quality Standard: In addition to requirements specified, furnish SDI-Certified manufacturer products that comply with ANSI/SDI A250.8, latest edition, "Recommended Specifications for Standard Steel Doors and Frames".
- C. Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to UL10C (neutral pressure at 40" above sill) or UL 10C.
 1. Oversize Fire-Rated Door Assemblies Construction: For units exceeding sizes of tested assemblies, attach construction label certifying doors are built to standard construction requirements for tested and labeled fire rated door assemblies except for size.
 2. Temperature-Rise Limit: Where indicated and at vertical exit enclosures (stairwell openings) and exit passageways, provide doors that have a maximum transmitted temperature end point of not more than 450 deg F (250 deg C) above ambient after 30 minutes of standard fire-test exposure.
 3. Smoke Control Door Assemblies: Comply with NFPA 105.
 - a. Smoke "S" Label: Doors to bear "S" label, and include smoke and draft control gasketing applied to frame and on meeting stiles of pair doors.
- D. Fire-Rated, Borrowed-Light Frame Assemblies: Assemblies complying with NFPA 80 that are listed and labeled, by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire-protection ratings indicated, based on testing according to NFPA 257. Provide labeled glazing material.
- E. Storm Shelter Openings: Provide complete door systems for hurricane or tornado storm shelters, and other areas of refuge, complying and tested according to ICC 500 (2014/2020), ICC/NSSA Standard for the Design and Construction of Storm Shelters.
 1. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.

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- F. Pre-Submittal Conference: Conduct conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier, Installer, and Contractor to review proper methods and procedures for installing hollow metal doors and frames and to verify installation of electrical knockout boxes and conduit at frames with electrified or access control hardware.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Deliver hollow metal work palletized, wrapped, or crated to provide protection during transit and Project site storage. Do not use non-vented plastic.
- B. Deliver welded frames with two removable spreader bars across bottom of frames, tack welded to jambs and mullions.
- C. Store hollow metal work under cover at Project site. Place in stacks of five units maximum in a vertical position with heads up, spaced by blocking, on minimum 4-inch high wood blocking. Do not store in a manner that traps excess humidity.
 - 1. Provide minimum 1/4-inch space between each stacked door to permit air circulation. Door and frames to be stacked in a vertical upright position.

1.5 PROJECT CONDITIONS

- A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

1.6 COORDINATION

- A. Coordinate installation of anchorages for hollow metal frames. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors. Deliver such items to Project site in time for installation.
- B. Building Information Modeling (BIM) Support: Utilize designated BIM software tools and obtain training needed to successfully participate in the Project BIM processes. All technical disciplines are responsible for the product data integration and data reliability of their Work into the coordinated BIM applications.

1.7 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace doors that fail in materials or workmanship within specified warranty period.
- B. Warranty includes installation and finishing that may be required due to repair or replacement of defective doors.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide steel doors and frames from a SDI Certified manufacturer:
 - 1. CECO Door Products (C).
 - 2. Curries Company (CU).

2.2 MATERIALS

- A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B; suitable for exposed applications.
- B. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.
- C. Frame Anchors: ASTM A 653/A 653M, Commercial Steel (CS), Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.

2.3 HOLLOW METAL DOORS

- A. General: Provide 1-3/4 inch doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces unless otherwise indicated. Comply with ANSI/SDI A250.8 and ANSI/NAAMM HMMA 867.
- B. Exterior Doors: Face sheets fabricated of commercial quality hot-dipped zinc coated steel that complies with ASTM A 653/A 653M, Coating Designation A60. Provide doors complying with requirements indicated below by referencing ANSI/SDI A250.8 for level and model and ANSI/SDI A250.4 for physical performance level:
 - 1. Design: Flush panel.
 - 2. Core Construction: Manufacturer's standard polystyrene. Where indicated, provide doors fabricated as thermal-rated assemblies with a minimum R-value of 2.8 or better.
 - 3. Level/Model: Level 3 and Physical Performance Level A (Extra Heavy Duty), Minimum 16 gauge (0.053-inch - 1.3-mm) thick steel, Model 2.
 - 4. Top and Bottom Edges: Reinforce tops and bottoms of doors with a continuous steel channel not less than 16 gauge, extending the full width of the door and welded to the face sheet. Doors with an inverted top channel to include a steel closure channel, screw attached, with the web of the channel flush with the face sheets of the door. Plastic or composite channel fillers are not acceptable.
 - 5. Hinge Reinforcement: Minimum 7 gauge (3/16") plate 1-1/4" x 9" or minimum 14 gauge continuous channel with pierced holes, drilled and tapped.
 - 6. Hardware Reinforcements: Fabricate according to ANSI/SDI A250.6 with reinforcing plates from same material as door face sheets.
- C. Interior Doors: Face sheets fabricated of commercial quality cold rolled steel that complies with ASTM A 1008/A 1008M. Provide doors complying with requirements indicated below by

referencing ANSI/SDI A250.8 for level and model and ANSI/SDI A250.4 for physical performance level:

1. Design: Flush panel.
2. Core Construction: Manufacturer's standard kraft-paper honeycomb, or one-piece polystyrene core, securely bonded to both faces.
 - a. Fire Door Core: As required to provide fire-protection and temperature-rise ratings indicated.
3. Level/Model: Level 2 and Physical Performance Level B (Heavy Duty), Minimum 18 gauge (0.042-inch - 1.0-mm) thick steel, Model 2.
4. Top and Bottom Edges: Reinforce tops and bottoms of doors with a continuous steel channel not less than 16 gauge, extending the full width of the door and welded to the face sheet.
5. Hinge Reinforcement: Minimum 7 gauge (3/16") plate 1-1/4" x 9" or minimum 14 gauge continuous channel with pierced holes, drilled and tapped.
6. Hardware Reinforcements: Fabricate according to ANSI/SDI A250.6 with reinforcing plates from same material as door face sheets.

D. Manufacturers Basis of Design:

1. Curries Company (CU) - Honeycomb Core - 707 Series.

2.4 LOUVERS

A. Metal Louvers: Unless otherwise indicated provide louvers to meet the following requirements.

1. Blade Type: Vision proof inverted V or inverted Y.
2. Metal and Finish: Galvanized steel, 0.040 inch thick, factory primed for paint finish with baked enamel or powder coated finish. Match pre-finished door paint color where applicable.

B. Louvers for Fire Rated Doors: Metal louvers with fusible link and closing device, listed and labeled for use in doors with fire protection rating of 1-1/2 hours and less.

1. Manufacturers: Subject to compliance with requirements, provide louvers to meet rating indicated.
2. Metal and Finish: Galvanized steel, 0.040 inch thick, factory primed for paint finish with baked enamel or powder coated finish. Match pre-finished door paint color where applicable.

2.5 LIGHT OPENINGS AND GLAZING

A. Stops and Moldings: Provide stops and moldings around glazed lites where indicated. Form corners of stops and moldings with butted or mitered hairline joints at fabricator's shop. Fixed and removable stops to allow multiple glazed lites each to be removed independently. Coordinate frame rabbet widths between fixed and removable stops with the type of glazing and installation indicated.

- B. Moldings for Glazed Lites in Doors and Loose Stops for Glazed Lites in Frames: Minimum 20 gauge thick, fabricated from same material as door face sheet in which they are installed.
- C. Fixed Frame Moldings: Formed integral with hollow metal frames, a minimum of 5/8 inch (16 mm) high unless otherwise indicated. Provide fixed frame moldings and stops on outside of exterior and on secure side of interior doors and frames.
- D. Preformed Metal Frames for Light Openings: Manufacturer's standard frame formed of 0.048-inch-thick, cold rolled steel sheet; with baked enamel or powder coated finish; and approved for use in doors of fire protection rating indicated. Match pre-finished door paint color where applicable.

2.6 ACCESSORIES

- A. Mullions and Transom Bars: Join to adjacent members by welding or rigid mechanical anchors.
- B. Grout Guards: Formed from same material as frames, not less than 0.016 inches thick.

2.7 FABRICATION

- A. Fabricate hollow metal work to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. When shipping limitations so dictate, frames for large openings are to be fabricated in sections for splicing or splining in the field by others.
- B. Tolerances: Fabricate hollow metal work to tolerances indicated in ANSI/SDI A250.8.
- C. Hollow Metal Doors:
 - 1. Exterior Doors: Provide optional weep-hole openings in bottom of exterior doors to permit moisture to escape where specified.
 - 2. Glazed Lites: Factory cut openings in doors with applied trim or kits to fit. Factory install glazing where indicated.
 - 3. Astragals: Provide overlapping astragals as noted in door hardware sets in Division 08 Section "Door Hardware" on one leaf of pairs of doors where required by NFPA 80 for fire-performance rating or where indicated. Extend minimum 3/4 inch beyond edge of door on which astragal is mounted.
 - 4. Continuous Hinge Reinforcement: Provide welded continuous 12 gauge strap for continuous hinges specified in hardware sets in Division 08 Section "Door Hardware".
- D. Hollow Metal Frames:
 - 1. Shipping Limitations: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of same thickness metal as frames.
 - 2. Welded Frames: Weld flush face joints continuously; grind, fill, dress, and make smooth, flush, and invisible.

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- a. Welded frames are to be provided with two steel spreaders temporarily attached to the bottom of both jambs to serve as a brace during shipping and handling. Spreader bars are for bracing only and are not to be used to size the frame opening.
 3. Sidelight and Transom Bar Frames: Provide closed tubular members with no visible face seams or joints, fabricated from same material as door frame. Fasten members at crossings and to jambs by butt welding.
 4. High Frequency Hinge Reinforcement: Provide high frequency hinge reinforcements at door openings 48-inches and wider with mortise butt type hinges at top hinge locations.
 5. Continuous Hinge Reinforcement: Provide welded continuous 12 gauge straps for continuous hinges specified in hardware sets in Division 08 Section "Door Hardware".
 6. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated for removable stops, provide security screws at exterior locations.
 7. Mortar Guards: Provide guard boxes at back of hardware mortises in frames at all hinges and strike preps regardless of grouting requirements.
 8. Floor Anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per anchor.
 9. Jamb Anchors: Provide number and spacing of anchors as follows:
 - a. Masonry Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches o.c. and as follows:
 - 1) Two anchors per jamb up to 60 inches high.
 - 2) Three anchors per jamb from 60 to 90 inches high.
 - 3) Four anchors per jamb from 90 to 120 inches high.
 - 4) Four anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 120 inches high.
 - b. Stud Wall Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches o.c. and as follows:
 - 1) Three anchors per jamb up to 60 inches high.
 - 2) Four anchors per jamb from 60 to 90 inches high.
 - 3) Five anchors per jamb from 90 to 96 inches high.
 - 4) Five anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 96 inches high.
 - 5) Two anchors per head for frames above 42 inches wide and mounted in metal stud partitions.
 10. Door Silencers: Except on weatherstripped or gasketed doors, drill stops to receive door silencers. Silencers to be supplied by frame manufacturer regardless if specified in Division 08 Section "Door Hardware".
 11. Bituminous Coating: Where frames are fully grouted with an approved Portland Cement based grout or mortar, coat inside of frame throat with a water based bituminous or asphaltic emulsion coating to a minimum thickness of 3 mils DFT, tested in accordance with UL 10C and applied to the frame under a 3rd party independent follow-up service procedure.
- E. Hardware Preparation: Factory prepare hollow metal work to receive template mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping according to the Door

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Hardware Schedule and templates furnished as specified in Division 08 Section "Door Hardware."

1. Locate hardware as indicated, or if not indicated, according to ANSI/SDI A250.8.
2. Reinforce doors and frames to receive non-template, mortised and surface mounted door hardware.
3. Comply with applicable requirements in ANSI/SDI A250.6 and ANSI/DHI A115 Series specifications for preparation of hollow metal work for hardware.
4. Coordinate locations of conduit and wiring boxes for electrical connections with Division 26 Sections.

2.8 STEEL FINISHES

- A. Prime Finishes: Doors and frames to be cleaned, and chemically treated to insure maximum finish paint adhesion. Surfaces of the door and frame exposed to view to receive a factory applied coat of rust inhibiting shop primer.
 1. Shop Primer: Manufacturer's standard, fast-curing, lead and chromate free primer complying with ANSI/SDI A250.10 acceptance criteria; recommended by primer manufacturer for substrate; and compatible with substrate and field-applied coatings.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. General Contractor to verify the accuracy of dimensions given to the steel door and frame manufacturer for existing openings or existing frames (strike height, hinge spacing, hinge back set, etc.).
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Remove welded in shipping spreaders installed at factory. Restore exposed finish by grinding, filling, and dressing, as required to make repaired area smooth, flush, and invisible on exposed faces.
- B. Prior to installation, adjust and securely brace welded hollow metal frames for square, level, twist, and plumb condition.
- C. Tolerances shall comply with SDI-117 "Manufacturing Tolerances Standard Steel Doors and Frames."
- D. Drill and tap doors and frames to receive non-template, mortised, and surface-mounted door hardware.

- E. Verify tolerances against manufacturers installations instructions for tornado and hurricane storm shelter openings.

3.3 INSTALLATION

- A. General: Install hollow metal work plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.
- B. Hollow Metal Frames: Install hollow metal frames of size and profile indicated. Comply with ANSI/SDI A250.11 and NFPA 80 at fire rated openings.
 - 1. Set frames accurately in position, plumbed, leveled, aligned, and braced securely until permanent anchors are set. After wall construction is complete and frames properly set and secured, remove temporary braces, leaving surfaces smooth and undamaged. Shim as necessary to comply with installation tolerances.
 - 2. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor, and secure with post-installed expansion anchors.
 - 3. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with mortar.
 - 4. Grout Requirements: Do not grout head of frames unless reinforcing has been installed in head of frame. Do not grout vertical or horizontal closed mullion members.
- C. Hollow Metal Doors: Fit hollow metal doors accurately in frames, within clearances specified below. Shim as necessary.
 - 1. Non-Fire-Rated Standard Steel Doors:
 - a. Jambs and Head: 1/8 inch plus or minus 1/16 inch.
 - b. Between Edges of Pairs of Doors: 1/8 inch plus or minus 1/16 inch.
 - c. Between Bottom of Door and Top of Threshold: Maximum 3/8 inch.
 - d. Between Bottom of Door and Top of Finish Floor (No Threshold): Maximum 3/4 inch.
 - 2. Fire-Rated Doors: Install doors with clearances according to NFPA 80.
- D. Field Glazing: Comply with installation requirements in Division 08 Section "Glazing" and with hollow metal manufacturer's written instructions.

3.4 ADJUSTING AND CLEANING

- A. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow metal work that is warped, bowed, or otherwise unacceptable.
- B. Remove grout and other bonding material from hollow metal work immediately after installation.
- C. Prime-Coat and Painted Finish Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat, or painted finishes, and apply touchup of compatible air drying, rust-inhibitive primer, zinc rich primer (exterior and galvanized openings) or finish paint.

3.5 FIELD QUALITY CONTROL

- A. Field Inspection (Punch Report): Reference Division 01 Sections “Closeout Procedures”. Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.
 - 1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

END OF SECTION 081113

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes commercial door hardware for the following:
 - 1. Swinging doors.
 - 2. Sliding doors.
 - 3. Other doors to the extent indicated.
- B. Door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
 - 2. Electromechanical door hardware.
 - 3. Cylinders specified for doors in other sections.
- C. Related Sections:
 - 1. Division 08 Section "Hollow Metal Doors and Frames".
 - 2. Division 08 Section "Flush Wood Doors".
 - 3. Division 08 Section "Aluminum-Framed Entrances and Storefronts".
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
 - 2. ICC/IBC - International Building Code.
 - 3. NFPA 70 - National Electrical Code.
 - 4. NFPA 80 - Fire Doors and Windows.
 - 5. NFPA 101 - Life Safety Code.
 - 6. NFPA 105 - Installation of Smoke Door Assemblies.
 - 7. State Building Codes, Local Amendments.
- E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:
 - 1. ANSI/BHMA Certified Product Standards - A156 Series.
 - 2. UL10C - Positive Pressure Fire Tests of Door Assemblies.

3. ANSI/UL 294 - Access Control System Units.
4. UL 305 - Panic Hardware.
5. ANSI/UL 437- Key Locks.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - h. Warranty information for each product.
 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Shop Drawings: Details of electrified access control hardware indicating the following:
 1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:

- a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
 - b. Complete (risers, point-to-point) access control system block wiring diagrams.
 - c. Wiring instructions for each electronic component scheduled herein.
2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.
- D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.
- E. Proof of Compliance: (California located Projects): Provide a list of product(s) containing chemicals known to cause cancer or reproductive toxicity as defined by the Office of Environmental Health Hazard Assessment (OEHHA) under Proposition 65 (CA Code of Regulations, Title 27, Section 27001). The list includes the specific chemical(s), if the chemical will be exposed to consumers, the means of warning, and an illustration of the label.
- F. Informational Submittals:
1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.
- G. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.
- 1.4 QUALITY ASSURANCE
- A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
- B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).
- C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the

manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

- E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
 2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.
- F. California Building Code: Provide hardware that complies with CBC Section 11B.
1. All openings as a part of an accessible route shall comply with CBC Section 11B-404.
 2. The clear opening width for a door shall be 32" minimum. For a swinging door it shall be measured between the face of the door and the stop, with the door open 90 degrees. There shall be no projections into it below 34" and 4" maximum projections into it between 34" and 80" above the finish floor or ground. Door closers and stops shall be permitted to be 78" minimum above the finish floor or ground. CBC Section 11B-404.2.3.
 3. Operable hardware on accessible doors shall comply with CBC Section 11B-309.4 and shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. Operable parts of such hardware shall be 34" minimum and 44" maximum above finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.
 4. Hardware (including panic hardware) shall not be provided with "nightlatch" function for any accessible doors or gates unless the following conditions are met:
 - a. Such hardware has a 'dogging' feature and is dogged during the time the facility is open.
 - b. All 'dogging' operation is performed only by employees as their job function (non-public use).
 5. The force for pushing or pulling open a door shall be in accordance with CBC Section 11B-404.2.9.
 - a. Interior hinged doors, sliding or folding doors, and exterior hinged doors: 5 pounds (22.2 N) maximum. Required fire doors: the minimum opening force allowable by the DSA authority, not to exceed 15 pounds (66.7N). These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door in a closed position.
 - b. The force required for activating any operable parts, such as lever hardware, or disengaging other devices shall be 5 pounds (22.2N) maximum to comply with CBC Section 11B-309.4.
 - c. The 5 pound (22.2 N) maximum force shall be validated for the size of the door used. The Building Materials Listing of the California State Fire Marshal shall indicate that the door hardware meets the 5 pound (22.2 N) force and shall also list the largest door that can be used.

6. Door closing speed shall comply with CBC Section 11B-404.2.8. Closers shall be adjusted so that the required time to move a door from an open position of 90 degrees to a position of 12 degrees from the latch is 5 seconds minimum. Spring hinges shall be adjusted so that the required time to move a door from an open position of 70 degrees to the closed position is 1.5 seconds minimum.
 7. Floor stops shall not be located in the path of travel and 4" maximum from walls.
 8. Thresholds shall comply with CBC Section 11B-404.2.5.
- G. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.
- H. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
1. Function of building, purpose of each area and degree of security required.
 2. Plans for existing and future key system expansion.
 3. Requirements for key control storage and software.
 4. Installation of permanent keys, cylinder cores and software.
 5. Address and requirements for delivery of keys.
- I. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.
1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
 2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
 3. Review sequence of operation narratives for each unique access controlled opening.
 4. Review and finalize construction schedule and verify availability of materials.
 5. Review the required inspecting, testing, commissioning, and demonstration procedures
- J. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.
- 1.5 DELIVERY, STORAGE, AND HANDLING
- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.6 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.7 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
 - 1. Structural failures including excessive deflection, cracking, or breakage.
 - 2. Faulty operation of the hardware.
 - 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - 4. Electrical component defects and failures within the systems operation.
- C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.
- B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:

1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.
- C. Please note that ASSA ABLOY is transitioning the Yale Commercial brand to ASSA ABLOY ACCENTRA. This affects only the brand name; the products and product numbers will remain unchanged. The brand transition is expected to be complete in or about May of 2024, and products shipping after that time will be branded ASSA ABLOY ACCENTRA.
- D. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 BUTT HINGES

- A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
 1. Quantity: Provide the following hinge quantity:
 - a. Two Hinges: For doors with heights up to 60 inches.
 - b. Three Hinges: For doors with heights 61 to 90 inches.
 - c. Four Hinges: For doors with heights 91 to 120 inches.
 - d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
 2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
 - a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
 - b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
 3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
 - a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
 - b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
 4. Hinge Options: Comply with the following:
 - a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.
 5. Manufacturers:
 - a. McKinney (MK) - TA/T4A Series, 5-knuckle.

2.3 CONTINUOUS HINGES

- A. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 continuous geared hinge. with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.

1. Manufacturers:
 - a. Pemko (PE).

2.4 DOOR OPERATING TRIM

- A. Flush Bolts and Surface Bolts: Provide products conforming to ANSI/BHMA A156.3 and A156.16, Grade 1.

1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
2. Furnish dust proof strikes for bottom bolts.
3. Surface bolts to be minimum 8" in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
5. Manufacturers:
 - a. Rockwood (RO).

- B. Coordinators: ANSI/BHMA A156.3 door coordinators consisting of active-leaf, hold-open lever and inactive-leaf release trigger. Model as indicated in hardware sets.

1. Manufacturers:
 - a. Rockwood (RO).

- C. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
4. Pulls, where applicable, shall be provided with a 10" clearance from the finished floor on the push side to accommodate wheelchair accessibility.
5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.
6. Manufacturers:

- a. Rockwood (RO).

2.5 CYLINDERS AND KEYING

- A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.
- B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:
 - 1. Threaded mortise cylinders with rings and cams to suit hardware application.
 - 2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
 - 3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
 - 4. Tubular deadlocks and other auxiliary locks.
 - 5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
 - 6. Keyway: Match Facility Standard.
- C. Large Format Interchangeable Cores: Provide removable cores (LFIC) as specified, core insert, removable by use of a special key, and for use with only the core manufacturer's cylinder and door hardware.
- D. Keying System: Each type of lock and cylinders to be factory keyed.
 - 1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
 - 2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
 - 3. Existing System: Field verify and key cylinders to match Owner's existing system.
- E. Key Quantity: Provide the following minimum number of keys:
 - 1. Change Keys per Cylinder: Two (2)
 - 2. Master Keys (per Master Key Level/Group): Five (5).
 - 3. Construction Keys (where required): Ten (10).
- F. Construction Keying: Provide temporary keyed construction cores.
- G. Key Registration List (Bitting List):
 - 1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
 - 2. Provide transcript list in writing or electronic file as directed by the Owner.

2.6 KEY CONTROL

- A. Key Control Cabinet: Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent

markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.

1. Manufacturers:
 - a. Lund Equipment (LU).
 - b. MMF Industries (MM).
 - c. Telkee (TK).

2.7 MORTISE LOCKS AND LATCHING DEVICES

- A. Mortise Locksets, Grade 1 (Heavy Duty): Provide ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed mortise locksets. Listed manufacturers shall meet all functions and features as specified herein.

1. Manufacturers:
 - a. Sargent Manufacturing (SA) - 8200 Series.

2.8 AUXILIARY LOCKS

- A. Behavioral Health, High Security Mortise: ANSI/BHMA A156.13, Series 1000, Operational and Security Grade 1 Certified Products Directory (CPD) listed mortise type tested to impact requirements of ASTM F1577-95b Detention Locks for Swinging Doors. Manufactured to accepted Office of Mental Health (OMH) requirements with behavioral health lever and escutcheon trim. Locksets to be manufactured with a corrosion resistant, formed steel case. Levers and escutcheons are manufactured from stainless steel material.

1. Manufacturers:
 - a. Sargent Manufacturing (SA) - 9200 BHW Series.
 - b. No Substitution.

- B. Behavioral Health, Cylindrical: ANSI/BHMA A156.2, Series 4000, Operational and Security Grade 1 Certified Products Directory (CPD) listed cylindrical locks that exceed 3,100 in-lb with no entry; lock to maintain egress functionality in compliance with BHMA certification requirements. Locksets shall be listed for low, medium and high risk areas in the NYS-OMH Patient Safety Standard. Latch retraction with preload shall exceed 100 lb. while maintaining ANSI/BHMA requirements for operation in warped doors. Locksets shall be provided standard with Torx® fasteners and with optional lead-lining and antimicrobial coating as specified in Hardware Sets.

1. Manufacturers:
 - a. Sargent Manufacturing (SA) - 10X BHW Series.

2.9 LOCK AND LATCH STRIKES

- A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
 2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
 3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
 4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.
- B. Standards: Comply with the following:
1. Strikes for Mortise Locks and Latches: BHMA A156.13.
 2. Strikes for Bored Locks and Latches: BHMA A156.2.
 3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
 4. Dustproof Strikes: BHMA A156.16.

2.10 CONVENTIONAL EXIT DEVICES

- A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
1. Exit devices shall have a five-year warranty.
 2. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
 3. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
 4. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
 5. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
 6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
 - a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
 - b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.

7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
10. Rail Sizing: Provide exit device rails factory sized for proper door width application.
11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices. Listed manufacturers shall meet all functions and features as specified herein.

1. Manufacturers:
 - a. Sargent Manufacturing (SA) - 80 Series.

2.11 DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.

1. Heavy duty surface mounted door closers shall have a 30-year warranty.
2. Manufacturers:

- a. Norton Rixson (NO) - 7500 Series.
- b. Sargent Manufacturing (SA) - 351 Series.

2.12 SURFACE MOUNTED CLOSER HOLDERS

- A. Electromagnetic Door Holders: ANSI A156.15 electromagnetic door holder/releases with a minimum 20 to 40 pounds holding power and single coil construction able to accommodate 12VDC, 24VAC, 24VDC and 120VAC. Coils to be independently wound, employing an integral fuse and armatures to include a positive release button.

1. Manufacturers:

- a. Norton Rixson (RF) - 980/990 Series.
- b. Sargent Manufacturing (SA) - 1560 Series.

2.13 ARCHITECTURAL TRIM

A. Door Protective Trim

1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
3. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications.
4. Protection Plates: ANSI/BHMA A156.6 protection plates (kick, armor, or mop), fabricated from the following:
 - a. Stainless Steel: 300 grade, 050-inch thick.
5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
6. Manufacturers:
 - a. Rockwood (RO).

2.14 DOOR STOPS AND HOLDERS

- A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.
- B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where

they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

1. Manufacturers:
 - a. Rockwood (RO).

2.15 ARCHITECTURAL SEALS

- A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
- B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
 1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.
- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
 1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NFPA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.
- E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- F. Manufacturers:
 1. Pemko (PE).

2.16 FABRICATION

- A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.17 FINISHES

- A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

- A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
 - 1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
- B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
 - 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 - 2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
 - 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
 - 4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
- C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and

reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

- D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."
- E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

- A. Field Inspection (Punch Report): Reference Division 01 Sections "Closeout Procedures". Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.
 - 1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.5 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION

- A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- B. Clean adjacent surfaces soiled by door hardware installation.
- C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

- A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.
2. The supplier is responsible for handing and sizing all products.
3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.

B. Manufacturer's Abbreviations:

1. MK - McKinney
2. PE - Pemko
3. RO - Rockwood
4. SA - SARGENT
5. RF - Rixson
6. OT - Other

Hardware Sets

Set: 1.0

Doors: [A-142A](#)

Description: PR CR SEC Mort Knob/ PP, 5BB KP

6 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Flush Bolt	2842	US26D	RO
1 Dust Proof Strike	570	US26D	RO
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
2 Kick Plate	K1050 10" high CSK BEV	US32D	RO

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 2.0

Doors: [418-108](#), [419-108](#), [420-108](#)

Description: Sg store exterior

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3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE
1 Sweep	315CN		PE
1 Threshold	271A verify with floor conditions		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 3.0

Doors: [419-107A](#)

Description: SG SR Mort Knob, PA-TRACK 5BB DETEX ALARM, KP, DOORBELL

2 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Electronic Control	Door Bell		
1 DETEX Exit Door Alarm	EAX-500 GRAY W-CYL as required		

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 4.0

Doors: [418-107](#)

Description: SG SR Mort Knob, PA-TRACK 5BB DETEX ALARM, KP, DOORBELL

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Electronic Control	Door Bell		
1 DETEX Exit Door Alarm	EAX-500 GRAY W-CYL as required		

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 5.0

Doors: [A-101](#)

Description: Sg store exterior

1 Continuous Hinge	CFMxxHD1 size for door		PE
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1 Classroom Security Lock	9238 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Sweep	315CN		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 6.0

Doors: 418-123

Description: Sg store exterior

3 Hinge, Full Mortise	H T2714 4" x 4"	US26D	MK
1 Classroom Security Lock	9238 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE
1 Sweep	315CN		PE
1 Threshold	271A verify with floor conditions		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 7.0

Doors: 417-108, 417-123, 419-123

Description: Sg store exterior

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Classroom Security Lock	9238 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE
1 Sweep	315CN		PE
1 Threshold	271A verify with floor conditions		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 8.0

Doors: 419-120A

Description: SG SR Mort Knob, PA-TRACK 5BB DETEX ALARM, KP, DOORBELL

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Classroom Security Lock	9238 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO

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1 Electronic Control	Door Bell
1 DETEX Exit Door Alarm	EAX-500 GRAY W-CYL as required

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 9.0

Doors: [A-120A](#)

Description: PR CR SEC Mort Knob/ PP, CH

2 Continuous Hinge	CFMxxHD1 size for door		PE
1 Flush Bolt	2842	US26D	RO
1 Dust Proof Strike	570	US26D	RO
1 Classroom Security Lock	9238 BHW	US32D	SA
1 Pull Plate	110x70C	US32D	RO
1 Gasketing	290AS		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 10.0

Doors: [417-101C](#)

Description: PR CR SEC Mort Knob/ PP, PAPB 5BB KP

6 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Flush Bolt	2842	US26D	RO
1 Dust Proof Strike	570	US26D	RO
1 Classroom Security Lock	9238 BHW	US32D	SA
4 Pull Plate	110x70C	US32D	RO
1 Coordinator	2600 series MB as required	US28	RO
2 Surface Closer	351 P10/O as required	EN	SA
2 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Astragal	357C		PE
1 Gasketing	290AS		PE
2 Sweep	315CN		PE
1 Threshold	271A verify with floor conditions		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 11.0

Doors: [419-101E](#)

Description: PR CR SEC Mort Knob/ PP, PAPB 5BB KP

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6 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Flush Bolt	2842	US26D	RO
1 Dust Proof Strike	570	US26D	RO
1 Classroom Security Lock	9238 BHW	US32D	SA
4 Pull Plate	110x70C	US32D	RO
1 Coordinator	2600 series MB as required	US28	RO
2 Surface Closer	351 P10/O as required	EN	SA
2 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Gasketing	290AS		PE
2 Sweep	315CN		PE
1 Threshold	271A verify with floor conditions		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 12.0

Doors: 417-101B

Description: PR CR SEC Mort Knob/ PP, PAPB 5BB KP

6 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Flush Bolt	2842	US26D	RO
1 Dust Proof Strike	570	US26D	RO
1 Classroom Security Lock	9238 BHW	US32D	SA
2 Pull Plate	110x70C	US32D	RO
1 Coordinator	2600 series MB as required	US28	RO
2 Surface Closer	351 P10/O as required	EN	SA
2 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Astragal	357C		PE
1 Gasketing	290AS		PE
2 Sweep	315CN		PE
1 Threshold	271A verify with floor conditions		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 13.0

Doors: 417-101D

Description: SG CR SEC Mort Knob/ PP, PAPB 5BB KP

2 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Classroom Security Lock	9238 BHW	US32D	SA

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2 Pull Plate	110x70C	US32D	RO
1 Surface Closer	351 P10/O as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Threshold	271A verify with floor conditions		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 14.0

Doors: 419-101C

Description: SG CR SEC Mort Knob/ PP, 5BB KP

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Classroom Security Lock	9238 BHW	US32D	SA
1 Pull Plate	110x70C	US32D	RO
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Threshold	271A verify with floor conditions		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 15.0

Doors: 420-101E

Description: Sg CR SEC, TRACK, 5BB KP, TH

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Classroom Security Lock	9238 BHW	US32D	SA
2 Pull Plate	110x70C	US32D	RO
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Threshold	271A verify with floor conditions		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 16.0

Doors: 420-101D

Description: PR CR SEC Mort Knob/ PP, track 5BB KP Doorbell

6 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Flush Bolt	2842	US26D	RO
1 Dust Proof Strike	570	US26D	RO

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1 Classroom Security Lock	9238 BHW	US32D	SA
1 Coordinator	2600 series MB as required	US28	RO
2 Surface Closer	351 POT/OT as required	EN	SA
2 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Astragal	357C		PE
1 Gasketing	290AS		PE
2 Sweep	315CN		PE
1 Threshold	271A verify with floor conditions		PE
1 Electronic Control	Door Bell		

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 17.0

Doors: 418-101B

Description: PR CR SEC Mort Knob/ PP, track 6BB

3 Hinge, Full Mortise, Hvy Wt	H T4A3786 5" x 4-1/2"	US26D	MK
1 Classroom Security Lock	9238 BHW	US32D	SA
2 Pull Plate	110x70C	US32D	RO
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Threshold	271A verify with floor conditions		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 18.0

Doors: 418-C100, 419-C100, 420-C100

Description: SV exit only

6 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
2 Concealed Vert Rod Exit, Exit Only	12 NB 43 5CH MD8610 EO 525	US32D	SA
2 Surface Closer	351 POT/OT as required	EN	SA
2 Kick Plate	K1050 10" high CSK BEV	US32D	RO
2 Electromagnetic Holder	998M	689	RF ⚡
2 Edge Guard	306-AST as required	US32D	RO
1 Gasketing	P88D		PE
1 Threshold	271A verify with floor conditions		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

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Set: 19.0

Doors: 417-C100

Description: SV exit only

6 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
2 Concealed Vert Rod Exit, Exit Only	12 NB 43 5CH WD8610 EO 525	US32D	SA
2 Surface Closer	351 POT/OT as required	EN	SA
2 Kick Plate	K1050 10" high CSK BEV	US32D	RO
2 Electromagnetic Holder	998M	689	RF ⚡
2 Edge Guard	306-AST as required	US32D	RO
1 Gasketing	P88D		PE
1 Threshold	271A verify with floor conditions		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 20.0

Doors: A-149

Description: Keypad No closed 5BB

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Keypad Mortise Lock	KP8278 LNL	US26D	SA ⚡
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 21.0

Doors: 420-116, 420-117, 420-118, 420-136

Description: SG CR, PA-TRACK 5BB, , MAG HO knob

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Classroom Lock	9237 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Electromagnetic Holder	998M	689	RF ⚡
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 22.0

Doors: 419-151

Description: SG CR, PA-TRACK 5BB, , MAG HO knob

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Classroom Lock	9237 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Electromagnetic Holder	998M	689	RF ⚡

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 23.0

Doors: 420-113, 420-140

Description: SG CR, PA-TRACK 4.5BB knob

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Classroom Lock	9237 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 24.0

Doors: 418-115, 418-125, 418-127, 418-128, 418-129, 418-130, 419-115, 419-125, 419-127, 419-136, 419-139

Description: SG PASS HOSP, PA-TRACK 5BB, KP, WRAP

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Passage Latch	10XU15 BHW	US32D	SA
2 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 25.0

Doors: 418-117, 418-118, 418-136, 418-153, 418-154, 418-155, 419-116, 419-118, 419-128, 419-129, 419-130, 419-153, 419-154, 419-155

Description: SG PASS HOSP, PA-TRACK 5BB, KP, WRAP, MAG HO

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3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Passage Latch	10XU15 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Electromagnetic Holder	998M	689	RF ⚡
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 26.0

Doors: 419-113

Description: SG PASS HOSP, PA-TRACK 5BB,, WRAP Threshold

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Passage Latch	10XU15 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE
1 Threshold	271A verify with floor conditions		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 27.0

Doors: 418-139

Description: SG PASS HOSP, PA-TRACK 5BB, WRAP

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Passage Latch	10XU15 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 28.0

Doors: 418-152, 419-117, 419-152

Description: SG PASS HOSP, PA-TRACK 5BB,, WRAP, MAG HO

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Passage Latch	10XU15 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Electromagnetic Holder	998M	689	RF ⚡

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1 Gasketing P88D PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 29.0

Doors: 417-149, 418-151

Description: SG PASS HOSP, PA-TRACK 4.5BB, wrap KP

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Double Locking	9259 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 30.0

Doors: 418-149, 419-149, 420-149

Description: SG PASS HOSP, PA-TRACK 4.5BB, wrap

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Double Locking	9259 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 31.0

Doors: 417-112, 417-124, 417-125, 417-127, 417-128, 417-130, 417-133, 417-135, 417-139, 418-112, 418-124, 418-133, 418-150, 419-112, 419-124, 419-133, 419-135, 419-150, 420-112, 420-124, 420-125, 420-135

Description: SG PASS HOSP, PA-TRACK 5BB, KP, WRAP

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Double Locking	9259 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

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Set: 32.0

Doors: 417-115, 417-116, 417-117, 417-118, 417-136, 417-153, 417-154, 417-155, 418-135

Description: SG PASS HOSP, PA-TRACK 5BB, KP, WRAP, MAG HO

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Double Locking	9259 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Electromagnetic Holder	998M	689	RF ⚡
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 33.0

Doors: 417-152

Description: SG PASS HOSP, PA-TRACK 5BB, KP, WRAP MHO

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Double Locking	9259 BHW	US32D	SA
1 Entry/Office Lock	10XG05 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
2 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Electromagnetic Holder	998M	689	RF ⚡
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 34.0

Doors: 417-148, 420-148

Description: PR SR Mort Knob, PA 4BB FLUSH BOLT

6 Hinge, Full Mortise	H T2714 4" x 4"	US26D	MK
1 Flush Bolt	2942	US26D	RO
1 Dust Proof Strike	570	US26D	RO
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Coordinator	2600 series MB as required	US28	RO
2 Surface Closer	351 P10/O as required	EN	SA
2 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Astragal	357C		PE

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1 Gasketing P88D PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 35.0

Doors: 419-148

Description: PR SR Mort Knob, PA 4.5BB FLUSH BOLT

6 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Flush Bolt	2942	US26D	RO
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Coordinator	2600 series MB as required	US28	RO
2 Surface Closer	351 P10/O as required	EN	SA
2 Kick Plate	K1050 10" high CSK BEV	US32D	RO
2 Armor Plate	K1050 48" high CSK BEV	US32D	RO
1 Astragal	357C		PE
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 36.0

Doors: 418-102, A-104, A-114, A-116, A-151, A-160, A-161

Description: SG SR Mort Knob, 4 BB

3 Hinge, Full Mortise	H T2714 4" x 4"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 37.0

Doors: A-142B

Description: SG SR PA ARM 5BB

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 P10/O as required	EN	SA
1 Gasketing	P88D		PE

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Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 38.0

Doors: [A-122](#)

Description: SR MORT, C-RA. 4"

3 Hinge, Full Mortise	H T2714 4" x 4"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 P10/O as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 39.0

Doors: [A-119](#)

Description: SG SR reg closer

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 P10/O as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 40.0

Doors: [420-104B](#)

Description: SG SR Mort Knob, PA-TRACK 4.5BB

1 Continuous Hinge	CFMxxHD1 size for door		PE
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 41.0

Doors: [417-122](#), [418-110](#), [418-122](#), [418-146](#), [419-147](#), [420-126](#), [A-123](#), [A-146](#), [A-150](#), [A-159](#)

Description: SG SR Mort Knob, PA-TRACK 4.5BB

3 Hinge, Full Mortise	H T2714 4" x 4"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA

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1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 42.0

Doors: 418-147

Description: SG SR Mort Knob, PA-TRACK 4BB

3 Hinge, Full Mortise	H T2714 4" x 4"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 43.0

Doors: 420-147

Description: SG SR Mort Knob, PA-TRACK 4BB

3 Hinge, Full Mortise	H T2714 4" x 4"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 44.0

Doors: 420-158

Description: SG SR Mort Knob, PA-TRACK 4BB

3 Hinge, Full Mortise	H T2714 4" x 4"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 45.0

Doors: 420-122

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Description: SG SR Mort Knob, PA-TRACK 4BB

3 Hinge, Full Mortise	H T2714 4" x 4"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 46.0

Doors: [420-121](#)

Description: SG SR Mort Knob, PA-TRACK 4BB

3 Hinge, Full Mortise	H T2714 4" x 4"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 47.0

Doors: [420-162](#)

Description: SG SR Mort Knob, PA-TRACK 4BB

3 Hinge, Full Mortise	H T2714 4" x 4"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 48.0

Doors: [417-147](#), [A-124](#)

Description: SG SR Mort Knob, PA-TRACK 4BB KP

3 Hinge, Full Mortise	H T2714 4" x 4"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Gasketing	P88D		PE

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Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 49.0

Doors: [418-148](#)

Description: SG SR Mort Knob, PA-TRACK 4.5BB

6 Hinge, Full Mortise	H T2714 4" x 4"	US26D	MK
1 Flush Bolt	2942	US26D	RO
1 Dust Proof Strike	570	US26D	RO
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Coordinator	2600 series MB as required	US28	RO
2 Surface Closer	351 POT/OT as required	EN	SA
1 Astragal	357C		PE
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 50.0

Doors: [420-146](#)

Description: SG SR Mort Knob, PA-TRACK 4BB

3 Hinge, Full Mortise	H T2714 4" x 4"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 51.0

Doors: [418-111](#), [418-126](#)

Description: SG SR

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 52.0

Doors: 417-114, 419-111, 419-114, 420-115, A-103

Description: SG SR wrap plate kick plate

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 53.0

Doors: 417-132, 420-111

Description: SG SR wrap plate

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 54.0

Doors: 418-116, 420-151

Description: SG SR wrap plate

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Electromagnetic Holder	998M	689	RF ⚡
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 55.0

Doors: 417-119, 418-104B, 418-113, 418-132, 418-162, 419-110, 419-132, 419-146, 419-158, 419-162, A-136B

Description: SG SR Mort Knob, PA-TRACK 4.5BB

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3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 56.0

Doors: 420-110, 420-132

Description: SG SR Mort Knob, PA-TRACK 4.5BB.

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 57.0

Doors: 418-104A

Description: SG SR Mort Knob, PA-TRACK 4.5BB. AP

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Armor Plate	K1050 48" high CSK BEV	US32D	RO
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 58.0

Doors: 418-140, 418-141, 418-145, 419-140, 419-145, 419-156, 419-157

Description: SG SR Mort Knob, PA-TRACK 4.5BB. KP

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Gasketing	P88D		PE

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Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 59.0

Doors: 417-120, 417-126, 417-145, 417-146, 417-156, 417-157, 419-101A, 419-141, 420-104A, 420-139, 420-141

Description: SG SR Mort Knob, PA-TRACK 4.5BB

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 60.0

Doors: 417-109, 419-109, 420-109

Description: PR SR Mort Knob, PA-TRACK 4.5BB FLUSH BOLT

6 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Flush Bolt	2942	US26D	RO
1 Dust Proof Strike	570	US26D	RO
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Coordinator	2600 series MB as required	US28	RO
2 Surface Closer	351 POT/OT as required	EN	SA
1 Astragal	357C		PE
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 61.0

Doors: 418-109

Description: PR SR Mort Knob, PA-TRACK 4.5BB FLUSH BOLT

6 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Flush Bolt	2942	US26D	RO
1 Dust Proof Strike	570	US26D	RO
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Coordinator	2600 series MB as required	US28	RO
2 Surface Closer	351 POT/OT as required	EN	SA

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1 Astragal	18041CNB	PE
1 Gasketing	P88D	PE
2 Sweep	315CN	PE
1 Threshold	271A verify with floor conditions	PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 62.0

Doors: 417-104A, 417-110, 417-111, 417-137, 417-141, 418-121, 419-121, 420-137, 420-145, 420-156

Description: SG SR Mort Knob, PA-TRACK 4.5BB

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 63.0

Doors: A-118

Description: Sg SR deadbolt reg closer pp

3 Hinge, Full Mortise	H T2714 4" x 4"	US26D	MK
1 Institutional Privacy Lock	V20 8257 LNL	US32D	SA
1 Surface Closer	351 P10/O as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 64.0

Doors: A-102

Description: SG SR Mort Knob, CYL SG DB, PA-TRACK 4.5BB KP

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Institutional Privacy Lock	V20 8257 LNL	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO

Notes: Contractor to verify field conditions prior to detailing hardware.

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Set: 65.0

Doors: 419-142

Description: SG SR Mort Knob, PA-TRACK 4.5BB

4 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Entry/Office Lock	10XG05 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 66.0

Doors: 417-142, 420-142

Description: SG SR Mort Knob, PA-TRACK 4.5BB

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Storeroom/Closet Lock F07	9204 BHW	US32D	SA
1 Entry/Office Lock	10XG05 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Electromagnetic Holder	998M	689	RF ⚡
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 67.0

Doors: 417-129, 420-127

Description: SG ENTRY wrap plate kick plate

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Office/Entry Lock	9205 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 68.0

Doors: 417-150, 417-151, 420-128, 420-129, 420-130, 420-150, 420-152, 420-153, 420-154

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Description: SG ENTRY wrap plate kick plate MAG

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Office/Entry Lock	9205 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Electromagnetic Holder	998M	689	RF ⚡
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 69.0

Doors: 417-102, 419-102, 420-102

Description: SG CR Mort Knob, 4 BB

3 Hinge, Full Mortise	H T2714 4" x 4"	US26D	MK
1 Classroom Security Lock	9238 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 70.0

Doors: 418-144

Description: SG CR SEC Mort Knob, 4.5 BB

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Classroom Security Lock	9238 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 71.0

Doors: 417-104B

Description: Dutch door classroom security

2 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
2 Hinge, Spring	H 1502 4-1/2" x 4-1/2"	US26D	MK
1 Surface Bolt	630-4	US26D	RO

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1 Classroom Security Lock	9238 BHW	US32D	SA
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Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 72.0

Doors: [A-418](#), [A-419](#), [A-420](#)

Description: SG CR Mort Knob, PA-TRACK

1 Continuous Hinge	CFMxxHD1 size for door		PE
1 Classroom Security Lock	9238 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Edge Guard	306 as required	US32D	RO

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 73.0

Doors: [A-147A](#), [A-147B](#)

Description: SG CR Mort Knob, PA-TRACK 5BB AP PP

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Classroom Security Lock	9238 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Armor Plate	K1050 48" high CSK BEV	US32D	RO
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 74.0

Doors: [A-143A](#), [A-143B](#), [A-148A](#), [A-148B](#)

Description: SG CR Mort Knob, PA-TRACK 4.5BB KP

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Classroom Security Lock	9238 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 75.0

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NORWALK, CA

Doors: [A-120B](#), [A-136C](#)

Description: SG CR Mort Knob, PA-TRACK 4.5BB KP AP

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Classroom Security Lock	9238 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Armor Plate	K1050 48" high CSK BEV	US32D	RO
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 76.0

Doors: [420-133](#)

Description: SG CR Mort Knob, PA-TRACK 4.5BB KP

3 Hinge, Full Mortise	H T2714 5" x 4-1/2"	US26D	MK
1 Classroom Security Lock	9238 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 77.0

Doors: [417-121](#), [418-101A](#), [420-101A](#)

Description: SG CR Mort Knob, PA-TRACK 4.5BB

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Classroom Security Lock	9238 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 78.0

Doors: [417-101E](#), [419-104A](#)

Description: SG CR Mort Knob, PA-TRACK 4.5BB KP

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
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BELLFLOWER DEPARTMENT STATE HOSPITAL, METROPOLITAN
NORWALK, CA

1 Classroom Security Lock	9238 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 79.0

Doors: 418-101E

Description: SG CR Mort Knob, PA-TRACK 4.5BB KP

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Classroom Security Lock	9238 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
2 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 80.0

Doors: 419-101B

Description: SG CR Mort Knob, PA-TRACK 4.5BB KP AP

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Classroom Security Lock	9238 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Armor Plate	K1050 48" high CSK BEV	US32D	RO
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 81.0

Doors: 417-101A, 417-107A

Description: SG CR Mort Knob, PA-TRACK 4.5BB KP

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Classroom Security Lock	9238 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO

BELLFLOWER DEPARTMENT STATE HOSPITAL, METROPOLITAN
NORWALK, CA

1 Gasketing P88D PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 82.0

Doors: 417-113, 417-131A, 417-140, 420-101B

Description: SG CR Mort Knob, PA-TRACK 4.5BB

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Classroom Security Lock	9238 BHW	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 83.0

Doors: 418-134, 419-134, 420-134

Description: SG CR Mort Knob, CYL SG DB, PA-TRACK 4.5BB

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Institutional Privacy Lock	V20 8257 LNL	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 84.0

Doors: 419-143, 420-143

Description: SG CR Mort Knob, CYL SG DB, PA-TRACK 4.5BB KP

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Institutional Privacy Lock	V20 8257 LNL	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 85.0

BELLFLOWER DEPARTMENT STATE HOSPITAL, METROPOLITAN
NORWALK, CA

Doors: 417-143

Description: SG CR Mort Knob, CYL SG DB, PA-TRACK 4.5BB KP

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Institutional Privacy Lock	V20 8257 LNL	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Kick Plate	K1050 10" high CSK BEV	US32D	RO
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 86.0

Doors: 417-134, 417-144

Description: SG CR Mort Knob, CYL SG DB, PA-TRACK 4.5BB

3 Hinge, Full Mortise	H T2714 4-1/2" x 4-1/2"	US26D	MK
1 Institutional Privacy Lock	V20 8257 LNL	US32D	SA
1 Surface Closer	351 POT/OT as required	EN	SA
1 Gasketing	P88D		PE

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 87.0

Doors: 417-107B, 417-121A, 418-101C, 418-101D, 418-114, 418-120A, 418-137, 418-142, 418-143, 418-156, 418-157, 419-101D, 419-104B, 419-122, 419-126, 419-137, 419-144, 420-101C, 420-107, 420-114, 420-120A, 420-123, 420-144, 420-155, 420-157, A-105, A-120C, A-131B, A-136A, A-136D, A-145, A-160A

1 Note	Door compliant, no work	OT
--------	-------------------------	----

Notes: Contractor to verify field conditions prior to detailing hardware.

Set: 88.0

Doors: 417-103, 418-103, 419-103, 420-103

Description: Unknown

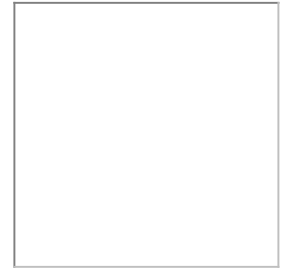
1 Note	Plywood door - no builders hardware	OT
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BELLFLOWER DEPARTMENT STATE HOSPITAL, METROPOLITAN
NORWALK, CA

END OF SECTION 087100

RFI detail

#39.1 Door Schedule Clarifications



Status	 Open In Review
Created on	Feb 8, 2024 by Jillyan Mina (Kazoni Inc. dba Kazoni Construction)
RFI type	Default RFI workflow
Ball in court	Jillyan Mina (Kazoni Inc. dba Kazoni Construction)
Due date	Feb 12, 2024

Question

Per our vendor's review of the door schedule provided, these were the questions brought up:

1.) I need to know – please send elevations of door configurations – I don't know what an "AI" verse "SG" are (assuming a double door/ pair vs. a single door).

See attached survey report. AI is active/inactive. SG = Single Door. AA = Both Active. DE = Double Egress.

2.) For the doors type AI that are under 6' wide – are we to provide a 3' wide leaf and a 1'8" wide leaf (example of Door #419-109/ 48" door or (2) 2'4" leaves).

All AI (active/inactive) openings are equal pairs. See Survey Report.

3.) Did they delete all the vision lights? – need to know which new doors are to receive glass lights and the size of light desired.

Doors in Survey Report are as surveyed. Doors with glass will have the following designation in the door type: G = Half Glass. V = Vision Light. N6 = Narrow Vision. Type 4 = Wide Vision. Exact dimensions of lights was not surveyed. Standard sizing will need to be confirmed with client as various sizes existed and visual details are in the Survey Report.

4.) For hollow metal door/ frames – the spec section lists Ceko & Curries only (ASSA wants to sell you ASSA products) – can we provide hollow metal doors and frames as manufactured by Door Components – local product/ faster to get & at least an equal to and probably better option.

Original frame Manufacture is unknown. Client direction was like for like replacement. All Hardware existing is Assa Abloy, assumption that frames are also Assa Abloy.

Suggested answer

Please advise.

Provide Substitution Request to include Price, Lead Times, and Specs for specified and requested substitution for client review.

Impact

Cost impact	Unknown
Schedule impact	Unknown

Other attributes

Priority High

Discipline -

Category -

Location SNF Building Repair Project

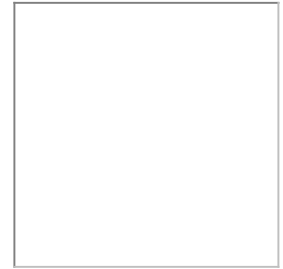
Location details -

External id -

Co-reviewer(s)

RFI detail

#51 Possible Mold Growing on Walls



Status	 Open In Review
Created on	Feb 6, 2024 by Jillyan Mina (Kazoni Inc. dba Kazoni Construction)
RFI type	Default RFI workflow
Ball in court	Jillyan Mina (Kazoni Inc. dba Kazoni Construction)
Due date	Feb 13, 2024

Question

During a site walk we noticed that potential mold was growing on the walls in Unit 418 room # 111 & Unit 420 Room # 147 (pictures attached). Please advise on how you would like us to proceed.

Suggested answer

DGS to consult with Panacea on next steps.

Response:

After sharing the provided photos with an Environmental and Safety Consulting Services, we gathered the following:

1. The stains do look like superficial mold growth on the plaster walls and ceilings.
2. The mold growth in the laundry room and kitchen (both with water/moisture sources) may be a result of poor ventilation/temperature and relative humidity (Rh) control in the rooms.

Recommendations:

1. Try cleaning the potential mold with fungicide to see if it can be easily removed. If it is only superficial, and the ventilation improves, you may need no further action.
2. Observe for few days if the problem persists, if the mold is located under the paint or within the layers of the wall or ceiling, then you may need to remove impacted material such as the plaster (assuming the water is penetrating the plaster), then you may wish to hire an abatement contractor.

Ramy Eskander

02/27/24

References

Photos (11)

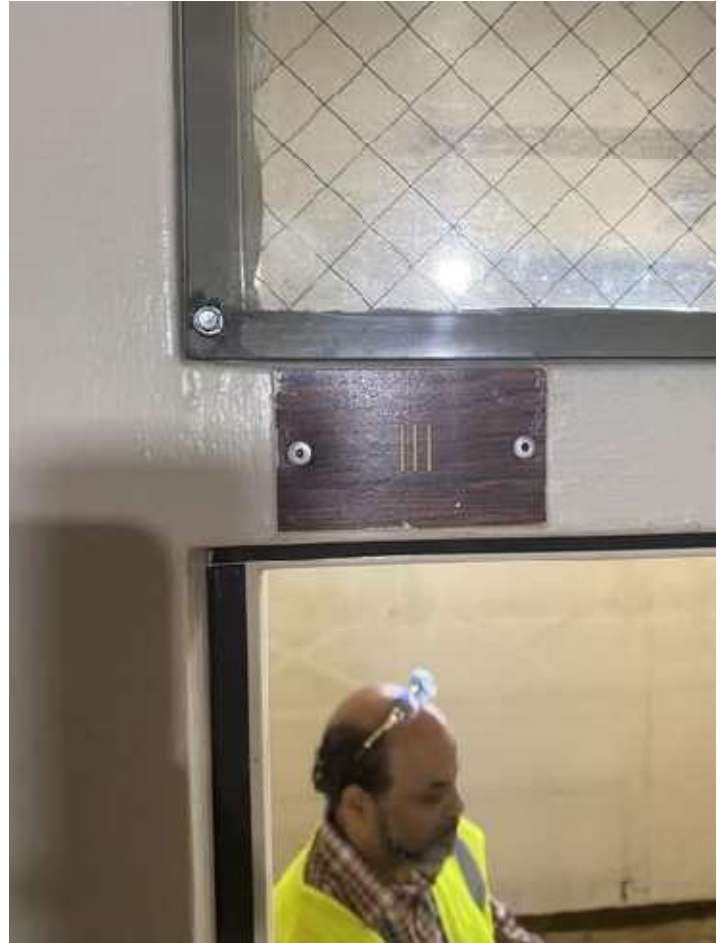


[IMG_6154](#)

Taken on Jan 31, 2024, 11:38 AM PST

Added on Feb 6, 2024, 9:06 AM PST

Added by Jillyan Mina



[IMG_6148](#)

Taken on Jan 31, 2024, 11:30 AM PST

Added on Feb 6, 2024, 9:06 AM PST

Added by Jillyan Mina



[IMG_6157](#)

Taken on Jan 31, 2024, 11:39 AM PST

Added on Feb 6, 2024, 9:06 AM PST

Added by Jillyan Mina



[IMG_6156](#)

Taken on Jan 31, 2024, 11:38 AM PST

Added on Feb 6, 2024, 9:06 AM PST

Added by Jillyan Mina



[IMG_6155](#)

Taken on Jan 31, 2024, 11:38 AM PST

Added on Feb 6, 2024, 9:06 AM PST

Added by Jillyan Mina



[IMG_6153](#)

Taken on Jan 31, 2024, 11:37 AM PST

Added on Feb 6, 2024, 9:06 AM PST

Added by Jillyan Mina



[IMG_6152](#)

Taken on Jan 31, 2024, 11:37 AM PST

Added on Feb 6, 2024, 9:06 AM PST

Added by Jillyan Mina



[IMG_6151](#)

Taken on Jan 31, 2024, 11:30 AM PST

Added on Feb 6, 2024, 9:06 AM PST

Added by Jillyan Mina



[IMG_6150](#)

Taken on Jan 31, 2024, 11:30 AM PST

Added on Feb 6, 2024, 9:06 AM PST

Added by Jillyan Mina



[IMG_6149](#)

Taken on Jan 31, 2024, 11:30 AM PST

Added on Feb 6, 2024, 9:06 AM PST

Added by Jillyan Mina



[IMG_6147](#)

Taken on Jan 31, 2024, 11:13 AM PST

Added on Feb 6, 2024, 9:06 AM PST

Added by Jillyan Mina

Impact

Cost impact Yes

Schedule impact Yes

Other attributes

Priority Normal

Discipline -

Category -

Location SNF Building Repair Project

Location details -

External id -

Co-reviewer(s)

RFI detail

#69 Millwork at Dentis Office



Status	 Open In Review
Created on	Apr 17, 2024 by Keith Kulpinski (Kazoni Inc. dba Kazoni Construction)
RFI type	Default RFI workflow
Ball in court	Keith Kulpinski (Kazoni Inc. dba Kazoni Construction) April Kulpinski (Kazoni Inc. dba Kazoni Construction)
Due date	May 1, 2024

Question

The millwork is capable of being relocated. Please provide millwork elevation and plan view for the millwork to be installed at new location.

Suggested answer

AOR to provide design

Impact

Cost impact	Yes
Schedule impact	Yes

Other attributes

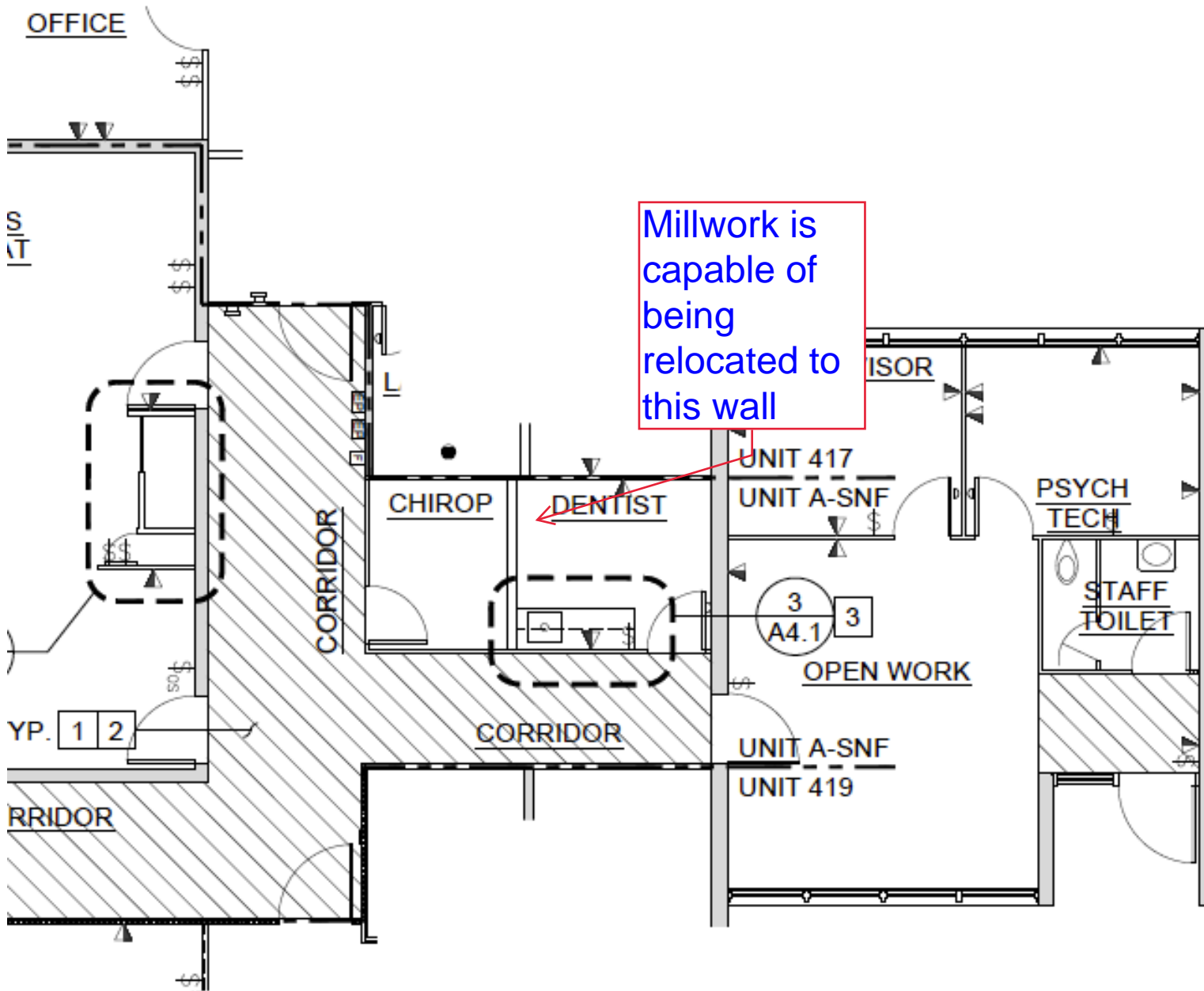
Priority	High
Discipline	Interior/Finishes
Category	Field condition, Constructability
Location	SNF Building Repair Project
Location details	-
External id	-

Co-reviewer(s)

JCCA takes no exception to locating the dentist's office cabinet to the perpendicular. Per the 04/25/24 construction meeting discussion, the Contractor is to provide drawings showing the updated cabinet location or provide markup drawings with field conditions and dimensions for JCCA to assist.

By: Ramy Eskander

Date: 05/01/24

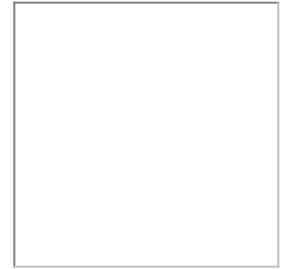


NEW WORK KEYNOTES:



RFI detail

#71 Millwork at Dining Area



Status	 Open In Review
Created on	Apr 17, 2024 by Keith Kulpinski (Kazoni Inc. dba Kazoni Construction)
RFI type	Default RFI workflow
Ball in court	Keith Kulpinski (Kazoni Inc. dba Kazoni Construction) April Kulpinski (Kazoni Inc. dba Kazoni Construction)
Due date	May 1, 2024

Question

The millwork height at the sink location is 26" per the design drawings. The existing plumbing is set at a height that will not accommodate the millwork being at 26".

Suggested answer

Raise millwork at dining area sinks to 36" to accommodate the existing plumbing, or lower the existing plumbing (field verification required).

Impact

Cost impact	Yes
Schedule impact	Unknown

Other attributes

Priority	High
Discipline	Interior/Finishes
Category	Constructability, Design Coordination, Field condition
Location	SNF Building Repair Project
Location details	-
External id	-

Co-reviewer(s)

It is acceptable to provide the cabinet at its original height of 36" exclusively for dining areas serving patients.

By: Ramy Eskander

Date: 05/02/24



X
- cut
X

UNIT A - EAST DINING ROOM

Fast food
Ice cream, fruit pie

Vegetables, fruits
Potatoes (in v in fat)
Nonfat dairy
Cooked whole grains
Lean protein, legumes

Compare:
4.5 oz apple pie = 340 calories
4.5 oz apple = 66 calories

UNIT A - EAST DINING ROOM



Base Snacks On!

- Vegetables
- Fruits
- Whole grains
- Nonfat dairy
- Lean protein

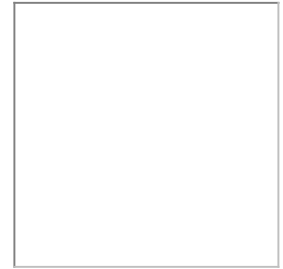
Higher Calorie Snacks

Chips	150	Lo
Cereal bar	180	Ca
Toaster pastry	200	App
Cookie, small	200	Pa
Soft pretzel	350	Light
Scone	440	Banana
Cinnamon roll	490	
Muffin	500	

UNIT A - WEST DINING ROOM

RFI detail

#72r1 Existing pipe penetrations



Status	 Open In Review
Created on	May 8, 2024 by Keith Kulpinski (Kazoni Inc. dba Kazoni Construction)
RFI type	Default RFI workflow
Ball in court	Keith Kulpinski (Kazoni Inc. dba Kazoni Construction) April Kulpinski (Kazoni Inc. dba Kazoni Construction)
Due date	May 22, 2024

Question

Removal of the ceiling in building A exposed existing pipe penetrations that are not fire caulked. We need direction on how to proceed. Please see attached drawing and pictures

Suggested answer

AOR needs to provide direction on procedure for fire caulking.

Impact

Cost impact	Yes
Schedule impact	Yes

Other attributes

Priority	High
Discipline	Electrical, Interior/Finishes
Category	Field condition
Location	SNF Building Repair Project
Location details	Building A dining and back kitchen wall
External id	-

Response:

Contractor to infill the openings using the attached, UL listed assembly.

Ramy Eskander

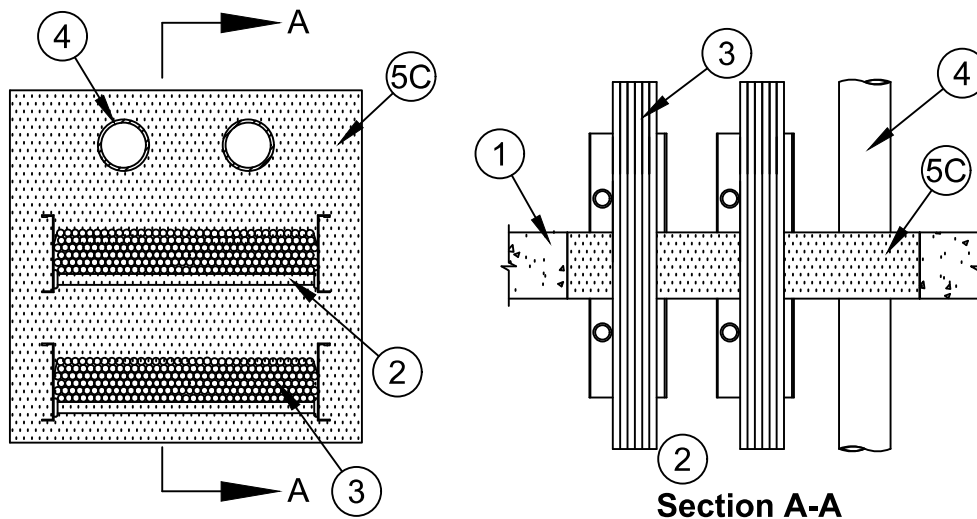
System No. C-AJ-8016

F Rating - 3 Hr

T Rating - 0 Hr

L Rating At Ambient - 82 CFM/sq ft

L Rating At 400 F - 57 CFM/sq ft



1. **Floor or Wall Assembly** - Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of through opening not to exceed 576 sq in. with max dimension of 24 in.

See **Concrete Blocks*** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Cable Tray*** - A max of two cable trays may be installed within the opening. Annular space between cable tray and periphery of opening shall be min of 2 in. to a max of 18 in. Cable trays shall be spaced 6 in. apart and rigidly supported on both sides of the floor or wall assembly. The following types of cable trays may be used:
 - A. Max 18 in. wide by max 5 in. deep open ladder cable tray with channel-shaped side rails formed of min 0.060 in. thick (No. 16 MSG) galv steel and with nom 1 in. diam rungs spaced 9 in. OC.
 - B. Max 18 in. wide by max 5 in. deep open ladder cable tray with channel-shaped side rails formed of min 0.080 in. thick aluminum and with nom 1 in. diam rungs spaced 9 in. OC.
3. **Cables** - Aggregate cross-sectional area of cables in cable tray to be max 22 percent of the cross-sectional area of the cable tray based on a max 3 in. cable loading depth within the cable tray. Any combination of the following types and sizes of copper conductor cables may be used:
 - A. 1/C - 350 kcmil with polyvinyl chloride (PVC) or cross-linked polyethylene (XLPE) insulation and PVC jacket.
 - B. 7/C - No. 12 AWG with PVC or XLPE insulation and PVC jacket.
 - C. 2/C - No. 16 AWG with PVC or XLPE insulation and PVC jacket.
4. **Through Penetrants** - A max of two conduit, tubing or pipes shall be installed within the opening. The annular space between the conduit, tubing or pipe and the periphery of the opening shall be a min of 2 in. to a max of 18 in. The conduit, tubing or pipes shall be spaced 5 in. apart and a min of 4 in. from the cable trays (Item 2). The conduit, tubing or pipe shall be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - A. **Steel Pipe** - Nom 4 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.
 - B. **Iron Pipe** - Nom 4 in. diam (or smaller) cast or ductile iron pipe.
 - C. **Conduit** - Nom 4 in. diam (or smaller) electrical metallic tubing or steel conduit.
 - D. **Copper Tubing** - Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.



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C-AJ-8016
PAGE 1 OF 2

5. **Firestop System** - The firestop system shall consist of the following:

- A. **Forms** - (Not Shown) - Used as a form to prevent leakage of fill material during installation. Forms to be a rigid sheet material, cut to fit the contour of the penetrating item and fastened to the underside of floor or both sides of wall. Forms to be removed after fill material has cured.
- B. **Packing Material** - (Not Shown) - Pieces of mineral wool batt insulation firmly packed between the conduit, tubing, pipes, cables or cable tray and the forms to prevent the leakage of the fill material while in its liquid state. The packing material may be removed after fill material cures.
- C. **Fill, Void or Cavity Material* - Mortar** - Min 4-1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. Mortar is to mixed at a rate of 1.2 parts dry mix to one part water by weight in accordance with the fill material manufacturer's installation instructions.

SPECIFIED TECHNOLOGIES INC - SpecSeal Mortar

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



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C-AJ-8016
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Picture 1





Picture 2

Picture 3

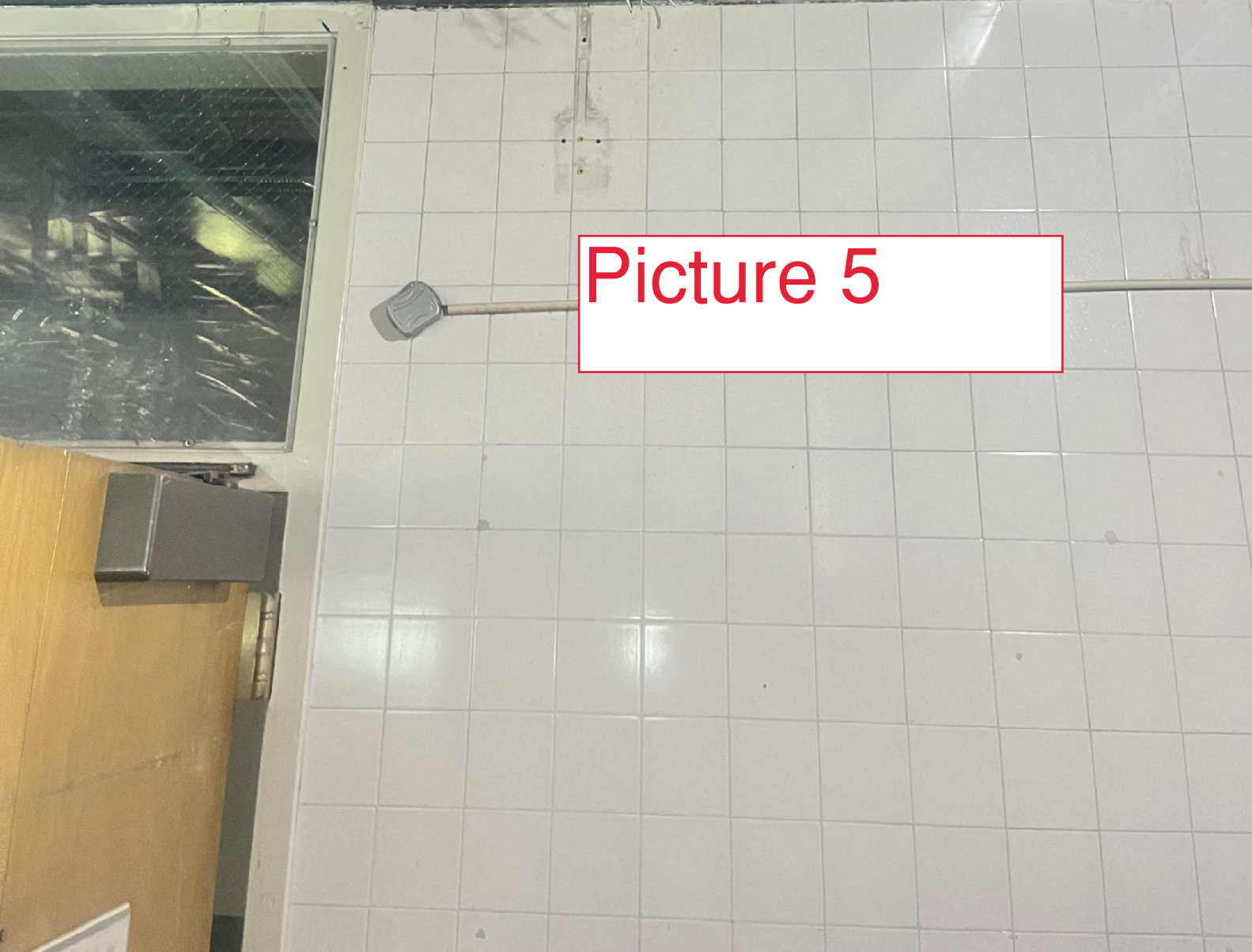


Picture 4





Picture 5





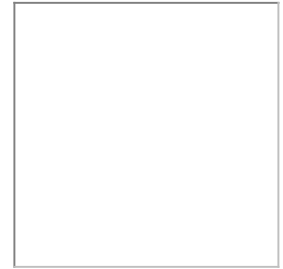
Picture 6

EXIT →

AUTHORIZED PERSONNEL ONLY
BEYOND THIS POINT

RFI detail

#76 low voltage box for wifi



Status	Open In Review
Created on	May 15, 2024 by Keith Kulpinski (Kazoni Inc. dba Kazoni Construction)
RFI type	Default RFI workflow
Ball in court	Keith Kulpinski (Kazoni Inc. dba Kazoni Construction) April Kulpinski (Kazoni Inc. dba Kazoni Construction)
Due date	May 29, 2024

Question

Low Voltage method of fireproofing - as previous discussed the following assembly has been requested for the WAP boxes.

Installed 4s box.

Inverted mud ring in box face (single gang type)

Install a 12" piece of 1/2" EMT into the back of the 4s box protruding into the attic space (this conduit stub will function as the inlet for LV wires into the box)

fire pad back of 4s box

Wifi vendor will bring their wires into the box for low voltage and then stuff fire pad or similar into the conduit stub in order to plug the inlet and fireproof the final assembly

Suggested answer

Please confirm this is acceptable

Impact

Cost impact	Unknown
Schedule impact	Yes

Other attributes

Priority	High
Discipline	Electrical

Category Constructability, Design Coordination

Location SNF Building Repair Project

Location details -

External id -

Co-reviewer(s)

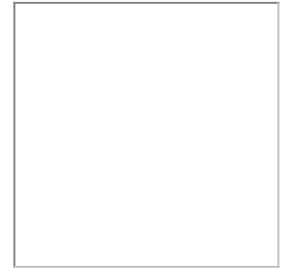
Per 05/22/24 construction meeting, the contractor to provide a mock-up for the Fire Marshal and IOR review and approval. Following the IOR and SFM review of the mock-up, contractor to provide a confirming RFI for the record.

Ramy Eskander

05/22/24

RFI detail

#80r1 Seismic Light Wire at Suspended Ceiling



Status	 Open In Review
Created on	May 20, 2024 by Keith Kulpinski (Kazoni Inc. dba Kazoni Construction)
RFI type	Default RFI workflow
Ball in court	Keith Kulpinski (Kazoni Inc. dba Kazoni Construction) April Kulpinski (Kazoni Inc. dba Kazoni Construction)
Due date	May 23, 2024

Question

Per detail 3 on sheet A3.3, we will use the following attachment method for the seismic wires for surface mounted light fixtures at the suspended ceilings per a previous DSA approved seismic wire attachment (used on previous projects that Thomas (IOR) was a team member). A wire will be attached to a structural member up above the J-box and then attached to the bracket that the J-box is attached. The light fixture will then be secured on both ends by being screwed into the backing. (See attached photo)

Suggested answer

Please confirm acceptance for the method of attachment.

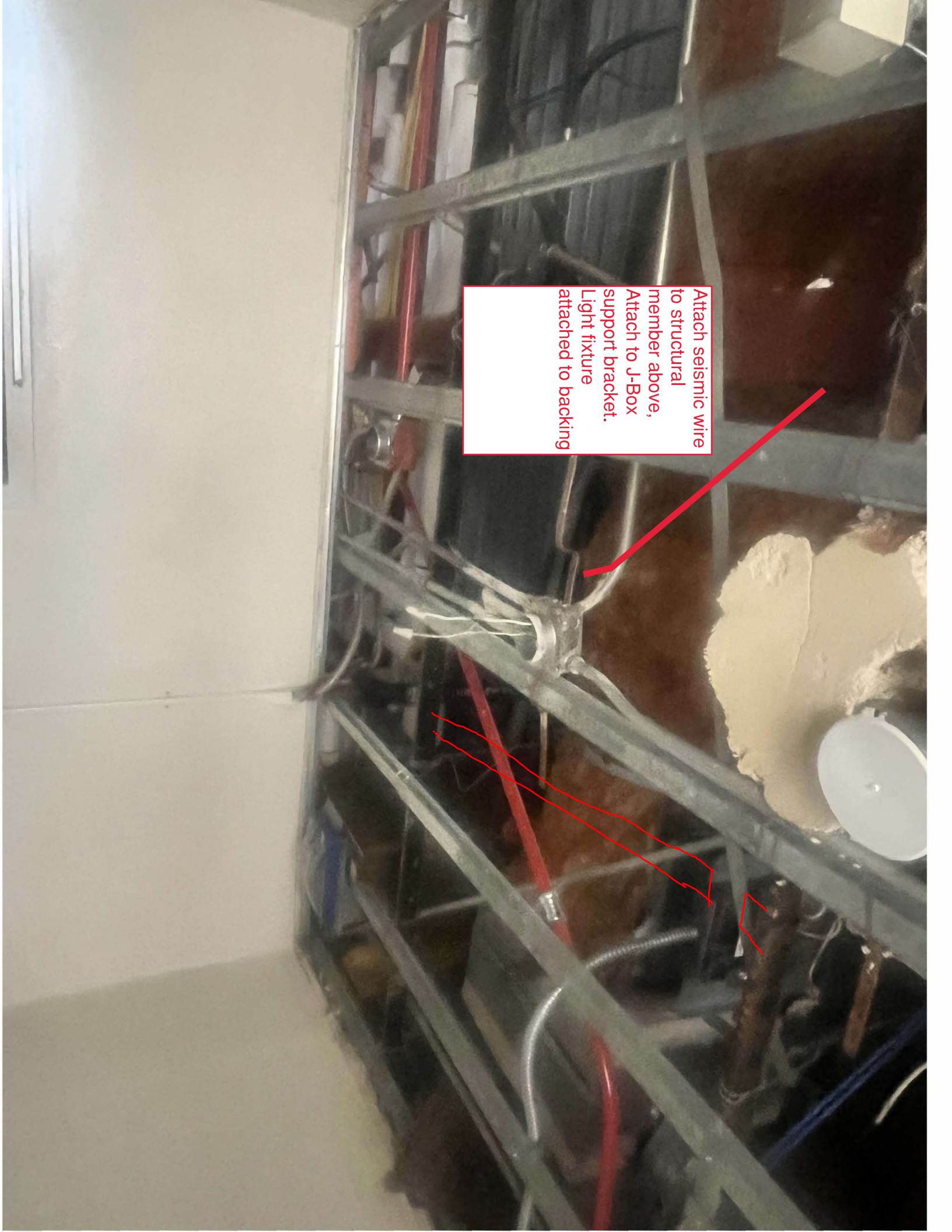
Impact

Cost impact	Unknown
Schedule impact	Unknown

Other attributes

Priority	Normal
Discipline	Architectural, Electrical
Category	Constructability, Design Coordination
Location	SNF Building Repair Project
Location details	-

Attach seismic wire
to structural
member above,
Attach to J-Box
support bracket.
Light fixture
attached to backing



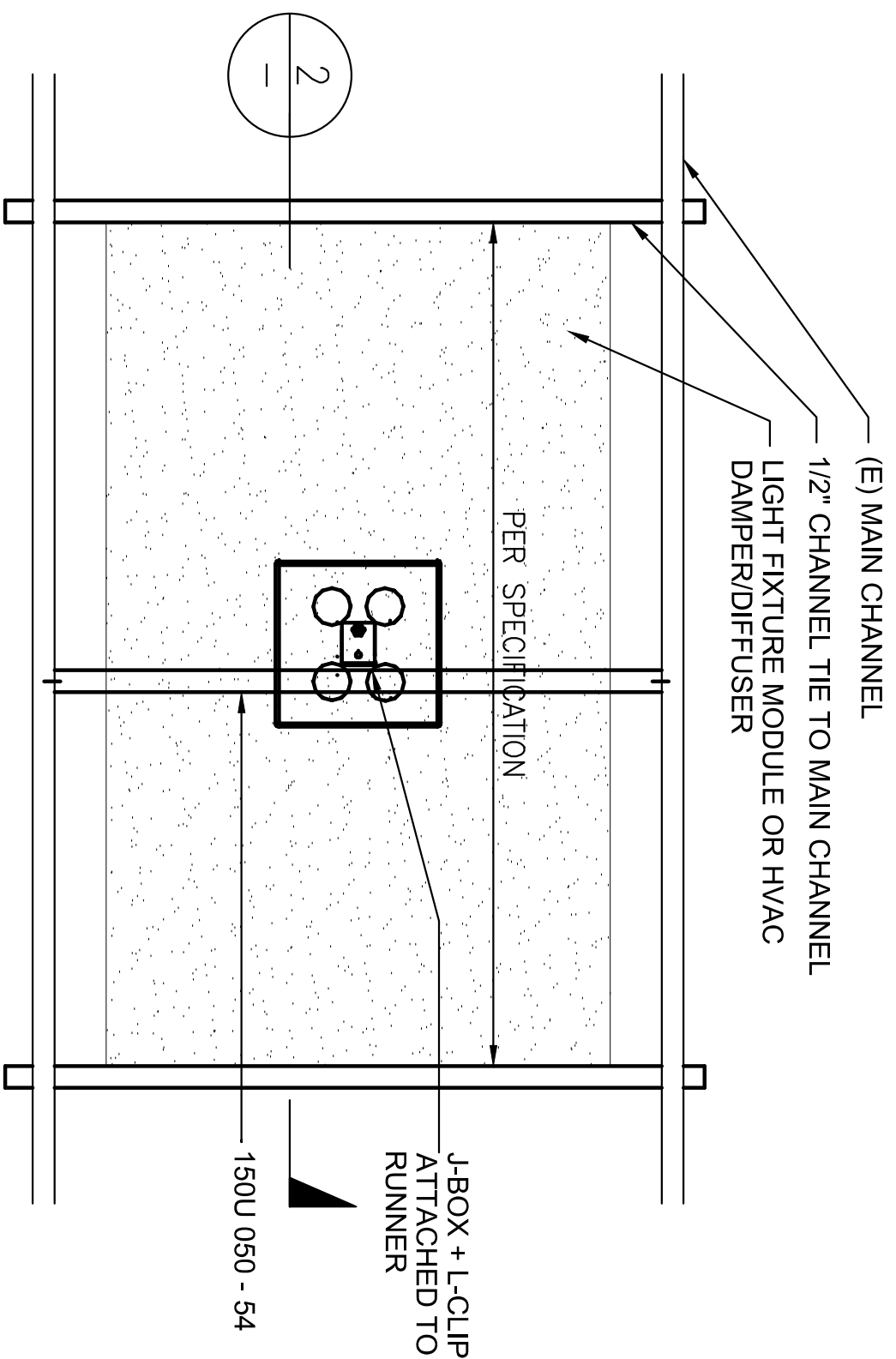
External id -

Co-reviewer(s)

Please find the following attachment details .

Ramy Eskander

06/19/24



2

1

SUPPORT FRAME FOR CEILING MOUNTED

1 FIXTURE - PLASTER CEILING

SCALE: 0 1 2 4 INCHES 8



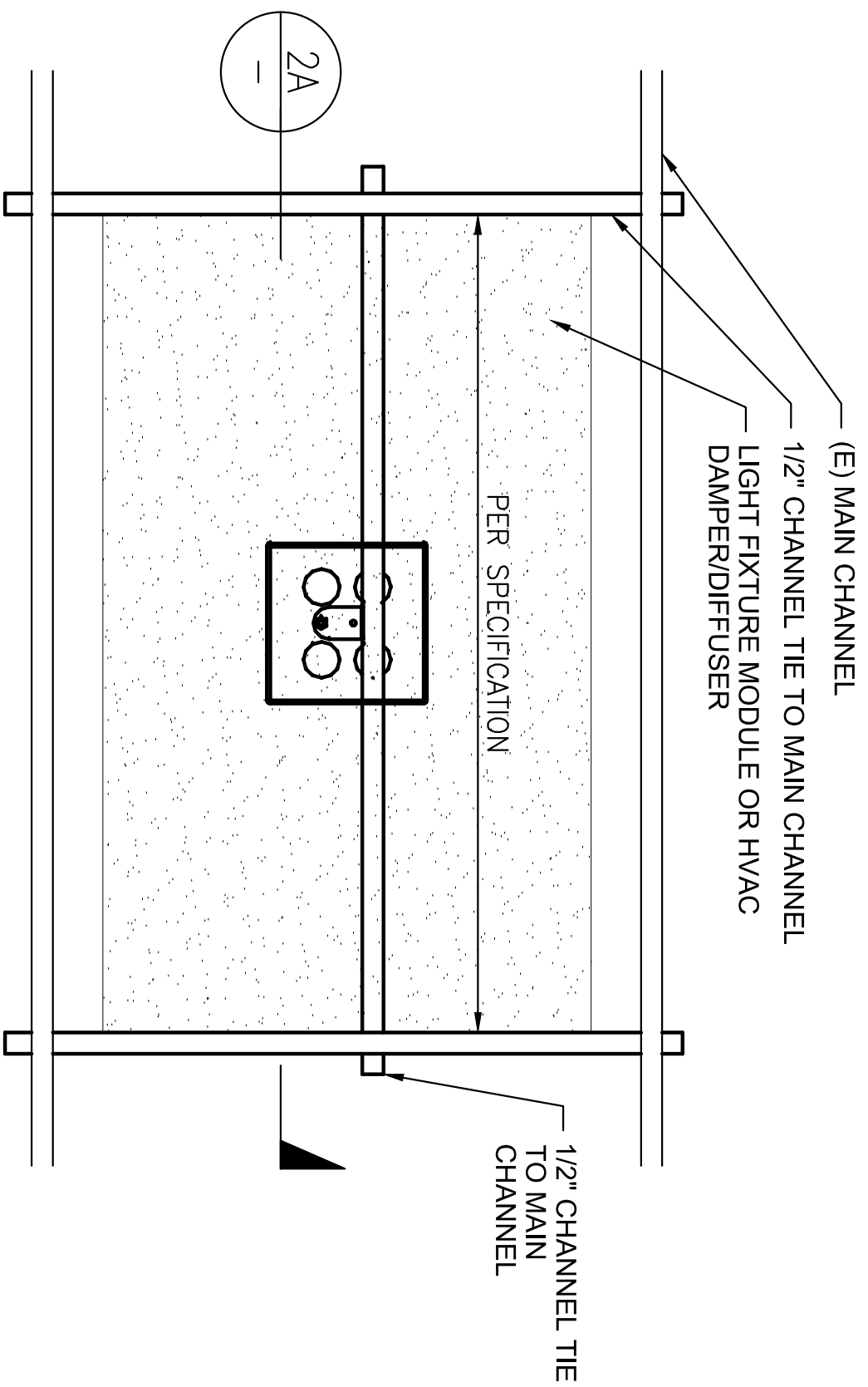
DETL_CELL

J-BOX + L-CLIP
ATTACHED TO
RUNNER

150U 050 - 54

PER SPECIFICATION

(E) MAIN CHANNEL
1/2" CHANNEL TIE TO MAIN CHANNEL
LIGHT FIXTURE MODULE OR HVAC
DAMPER/DIFFUSER



2A

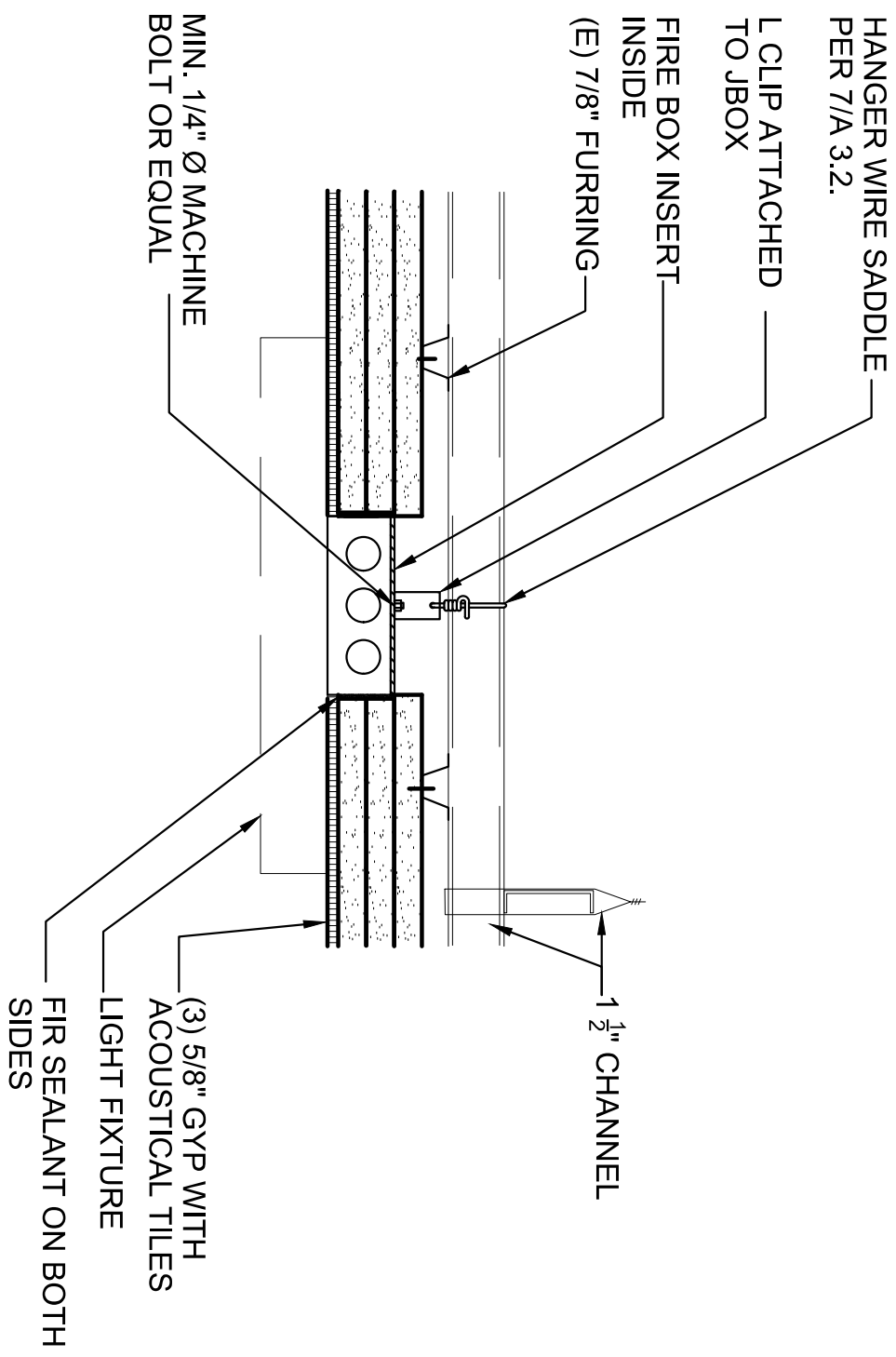
1A
SK

SUPPORT FRAME FOR CL. MOUNTED FIXT

SCALE: 0 1 2 4 INCHES 8



DETL_CELL



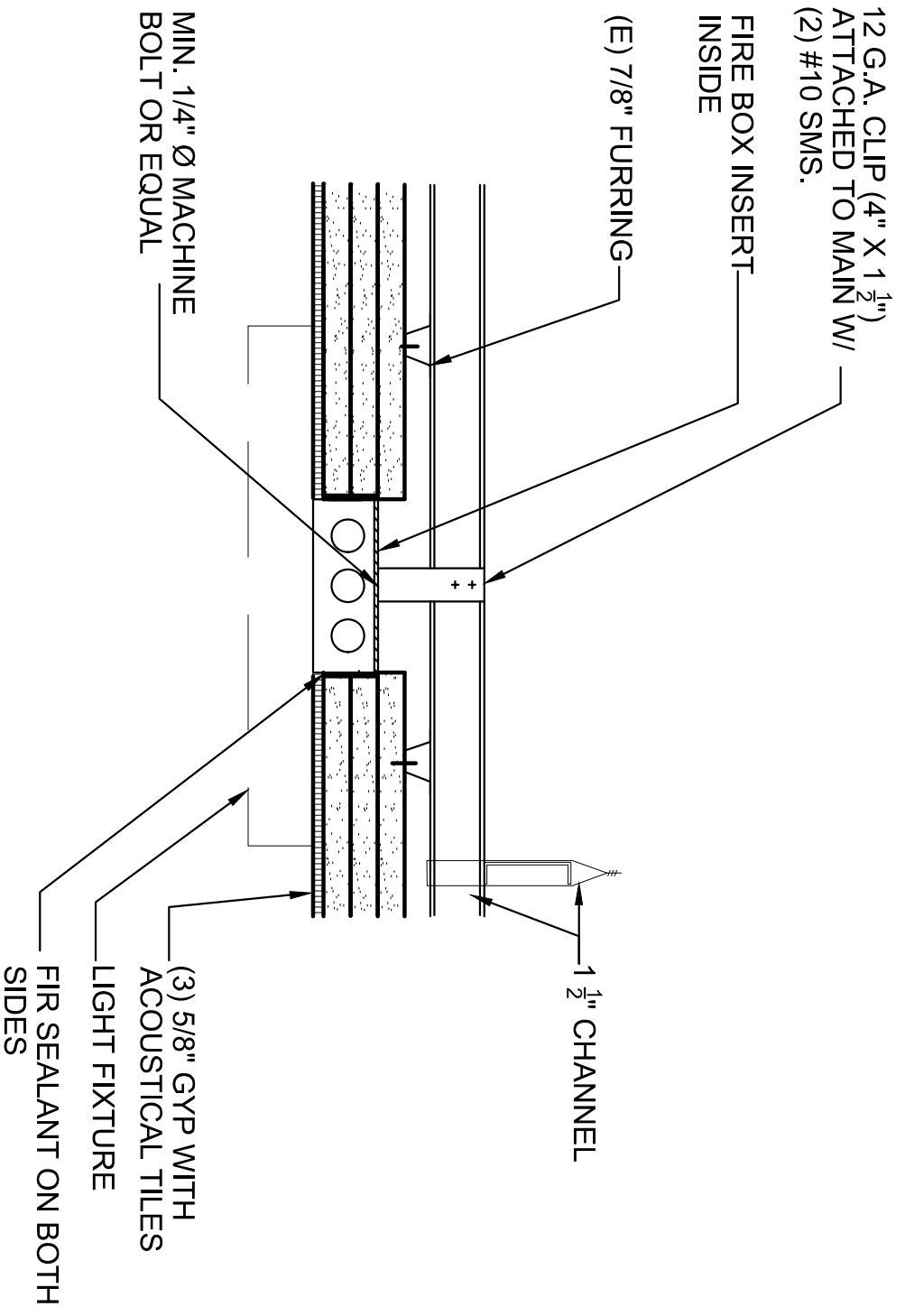
2A FIRE RATED LIGHT FIXTURE SECTION - 3 LAYER GYP

SK

SCALE: 0 1 2 4 8 INCHES



DETL_CELL



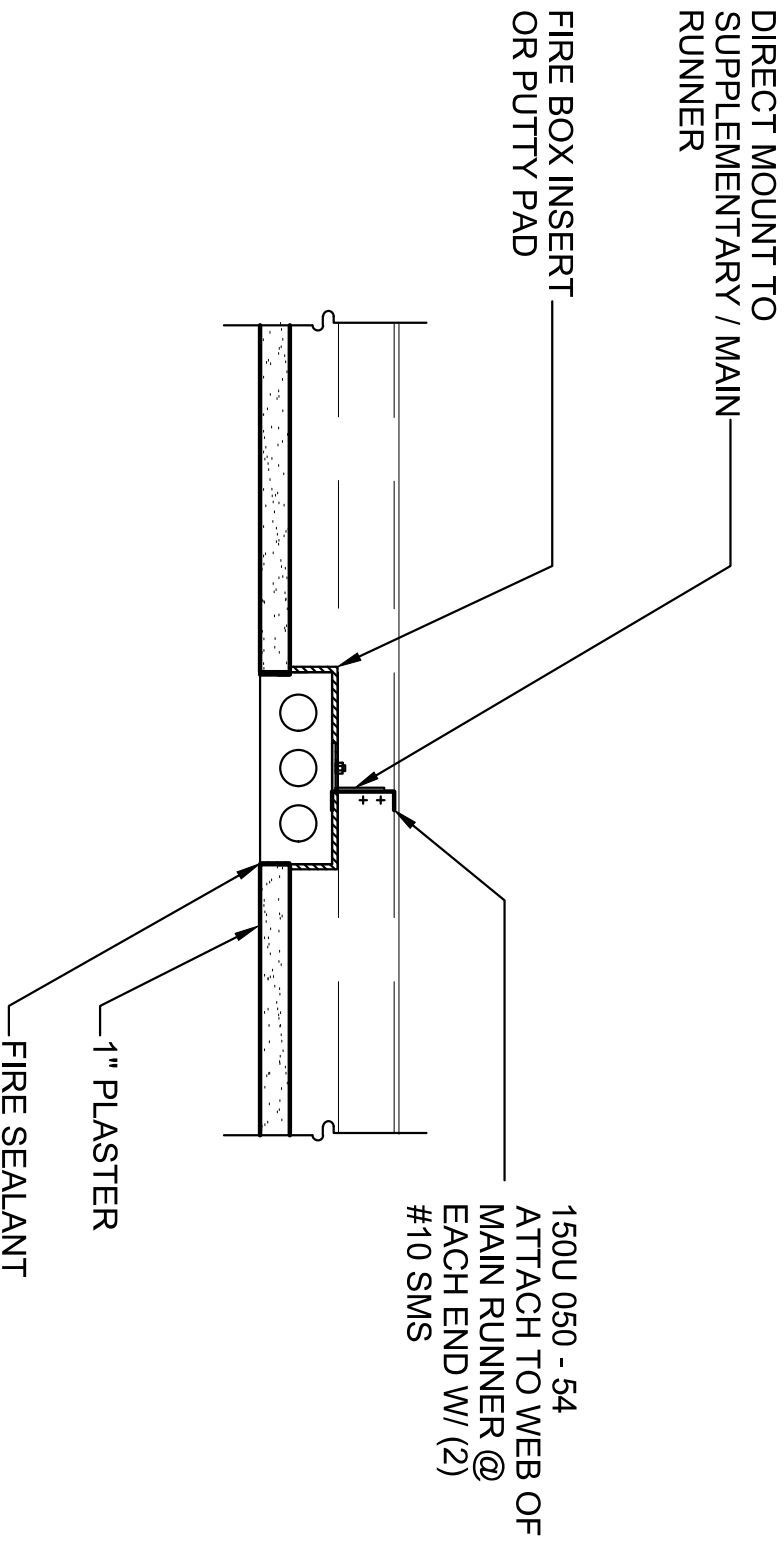
2B FIRE RATED LIGHT FIXTURE SECTION

SK

SCALE: 0 1 2 4 8 INCHES



DETL_CELL



3 FIRE RATED LIGHT FIXTURE SECTION

SK

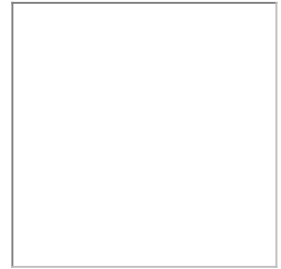
SCALE: 0 1 2 4 8 INCHES



DETL_CELL

RFI detail

#81 Unsupported Electrical



Status	 Open In Review
Created on	May 28, 2024 by Keith Kulpinski (Kazoni Inc. dba Kazoni Construction)
RFI type	Default RFI workflow
Ball in court	Keith Kulpinski (Kazoni Inc. dba Kazoni Construction) April Kulpinski (Kazoni Inc. dba Kazoni Construction)
Due date	Jun 4, 2024

Question

Throughout the 5 units there is existing data / low voltage / flex and conduit that is unsupported and resting on the existing ceiling systems. Please see attached pictures and locations. Please note that there are locations that may not be accounted for in the pictures or maps of the buildings.

Suggested answer

Support data / low voltage with J hooks and flex / conduit with support wires to structure.

Impact

Cost impact	Yes
Schedule impact	Yes

Other attributes

Priority	High
Discipline	Cabling, Electrical
Category	Field condition
Location	SNF Building Repair Project
Location details	-
External id	-

Co-reviewer(s)

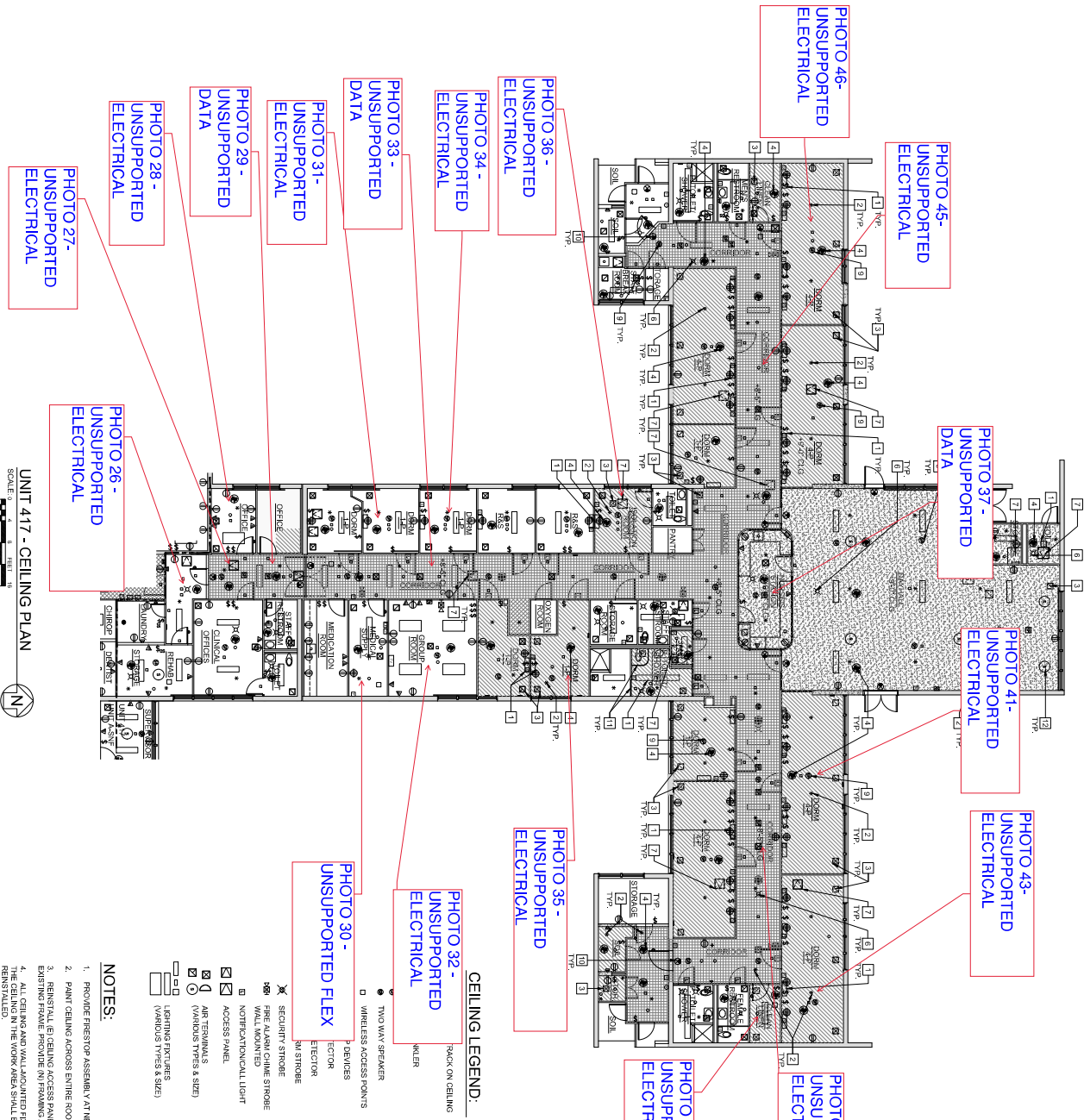
Response:

Suggested solution is acceptable. See more details below.

- it is acceptable to support telecommunication/data cables (fiber and CAT 6) using J-hook, spaced as required by applicable codes, typically within 3 feet of terminations and no less than 10 feet apart.
- it is acceptable to support non-flexible conduit systems (i.e. EMT, RGS) using the methods described in Chapter 3 of the California Electrical Codes, spaced as required by the applicable code article, typically within 3 feet of terminations and no less than 10 feet apart.
- it is acceptable to support flexible metal conduit (FMC) per CEC 348, using the methods described in Chapter 3. FMC is typically supported within 12 inches of terminations and no less than 4.5 feet apart.

Please note the response to this RFI is written broadly as the exact nature of each and every piece of wire and conduit has not been described in this RFI. The intent of the response is to confirm it's acceptable for the Contractor to support existing conduit and wiring systems using approved means and methods.

Sevag Avanesian
2024-06-05



UNIT 417 - CEILING PLAN
 SCALE: 1/8" = 1'-0"

CEILING LEGEND:

- TRACK ON CEILING
- WIRE
- TWO WAY SPEAKER
- WIRELESS ACCESS POINTS
- DEVICES
- DETECTOR
- DETECTOR
- NOTIFICATION LIGHT
- SECURITY STROBE
- FIRE ALARM CHIME STROBE
- WALL MOUNTED
- ACCESS PANEL
- AIR TERMINALS (VARIOUS TYPES & SIZES)
- USING TYPES & SIZES (VARIOUS TYPES & SIZES)

WALL LEGEND:

- ▬ 6" CONCRETE WALL
- ▬ 2-1/2" SOLID PLASTER WALL
- ▬ 4" PLASTER ON METAL STUD

NOTES:

1. PROVIDE FIRESTOP ASSEMBLY AT NEW AND EXISTING PENETRATIONS.
2. PAINT CEILING ACCESSORIES EITHER ROOM OR TO NATURAL BREAK POINT.
3. REINSTALL (E) CEILING ACCESS PANELS TO ORIGINAL LOCATION AT EXISTING FRAME. PROVIDE (N) FRAMING AT THE CORRIDOR.
4. ALL CEILING AND WALL MOUNTED FIXTURES AND CONDUIT 2" FROM FINISH SURFACE.
5. WHEN DISCONNECTION OF FIRE PROTECTION SYSTEM AND UTILITY WORK IS REQUIRED, THE CONTRACTOR SHALL REMOVE AND REINSTALL THE FACILITY MANAGER AND PROJECT ARCHITECT IN ADVANCE.
6. FIELD VERIFY ALL UTILITY AND FIRE PROTECTION SYSTEMS ARE WORKING PROPERLY BEFORE BEGINNING OF PROJECT. NOTIFY THE FACILITY MANAGER AND PROJECT ARCHITECT IF ANY SYSTEM DOES NOT FUNCTION.

NEW WORK KEYNOTES:

- (E) - EXISTING
- (N) - NEW
- CEILING MOUNTED LIGHT FIXTURE (N.C.I.) - (E) CONDUIT AND REMOVAL AT CEILING FINISH TO REMAIN FOR FUTURE LIGHT FIXTURE INSTALLATION. (N) - NEW
- (E) CONDUIT TO BE REMOVED WHEN THICKNESS OF CEILING FINISH IS CHANGED. REUSE (E) BRACKET TO ATTACH OTHERS APPROVED BRACKET WITH (E) CEILING FRAMING.
- (E) AIR SUPPLY & RETURN GRILLE - REMOVE AND REINSTALL AFTER CONSTRUCTION IS FINISHED.
- (E) CEILING MOUNTED HEAD DETECTOR - REINSTALL AFTER CONSTRUCTION IS FINISHED.
- (E) CEILING MOUNTED HEAD DETECTOR - REINSTALL AFTER CONSTRUCTION IS FINISHED.
- (E) CEILING MOUNTED FIRE ALARM WITH COVER - PAINT CEILING MOUNTED ACCESS DOOR & (E) SUPPORT FRAMING.
- (E) CEILING MOUNTED FIRE RATED HOUSING OR COVER.
- (E) CEILING MOUNTED SIGN - REMOVE AND REINSTALL EXTEND CONDUIT WHEN THICKNESS OF CEILING FINISH CHANGED.
- (E) CURTAIN TRACK - REMOVE AND REINSTALL AT (E) SUPPORT.
- (E) GRILLE FOR EXHAUST FAN. REINSTALL AT (E) SUPPORT.

ISSA STAMP

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 San Francisco, CA 94133
 916.495.4500
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 1500 S. F STREET, SUITE 200
 ANAHEIM, CA 92805
 TEL: 714.942.1234
 FAX: 714.942.1235
 www.jcca.com

NO.	DATE	DESCRIPTION
1	10/04/15	FINAL DRAWINGS V1
2	03/02/16	FINAL DRAWINGS V2
3	05/22/16	FINAL DRAWINGS V3
4	03/27/17	FINAL DRAWINGS V4

Project: DSH-METROPOLITAN SNF BLDG RE-ROOF LEAK DAMAGE REPAIR PROJECT
 11401 Bordenfield Ave., Novato, CA 94945
 DGS PROJECT #0258000142112
 SNF FAC #19-14-42002

Contractor: JCCA
 Architect: JCCA
 Designer: JCCA
 Checker: JCCA
 Date: 06/02/2022

Sheet Title: UNIT 417 CEILING PLAN

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

Author: AS STOVAN
 Designer: AS STOVAN
 Date: 06/02/2022

Phase: 102 CEILING REPAIR

PHOTO 26



PHOTO 27



PHOTO 28



PHOTO 29



PHOTO 30



PHOTO 31



PHOTO 32



PHOTO 33



PHOTO 34



PHOTO 35



PHOTO 36



PHOTO 37



PHOTO 41



PHOTO 42



PHOTO 43



PHOTO 44



PHOTO 45

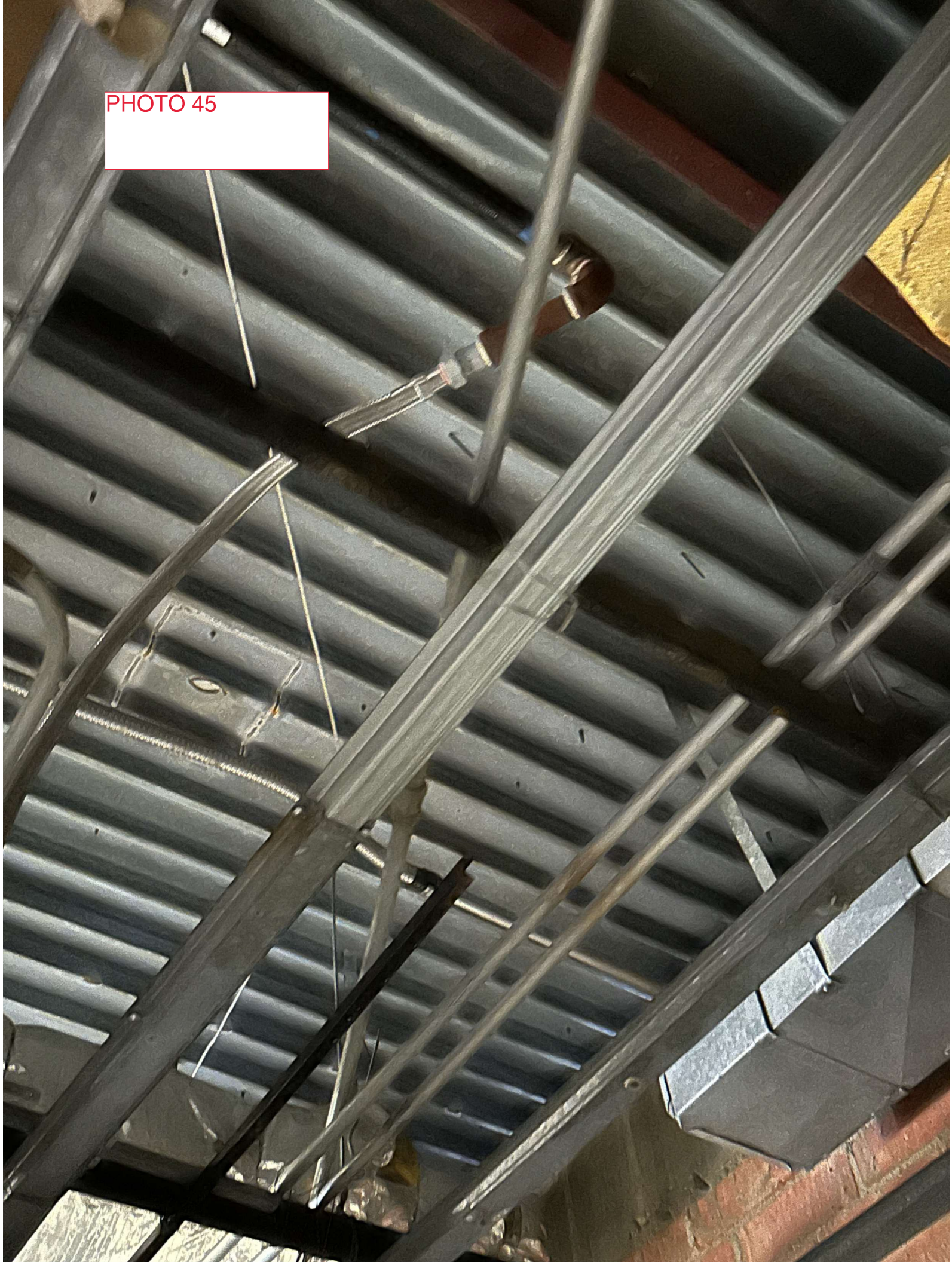
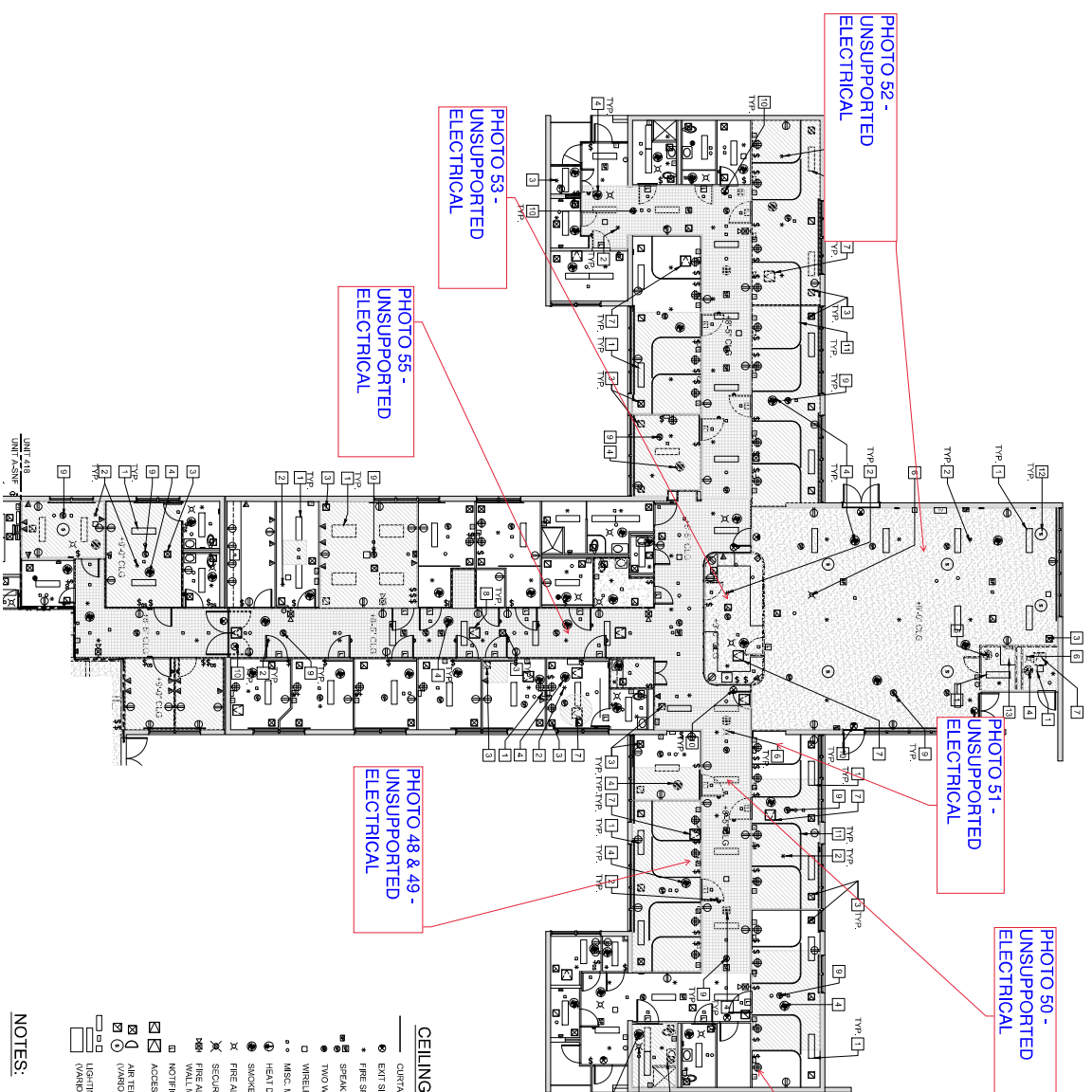


PHOTO 46





UNIT 418 - CEILING PLAN

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



PHOTO 52 - UNSUPPORTED ELECTRICAL

PHOTO 53 - UNSUPPORTED ELECTRICAL

PHOTO 55 - UNSUPPORTED ELECTRICAL

PHOTO 51 - UNSUPPORTED ELECTRICAL

PHOTO 50 - UNSUPPORTED ELECTRICAL

PHOTO 48 & 49 - UNSUPPORTED ELECTRICAL

PHOTO 47 - UNSUPPORTED ELECTRICAL

NOTES:

1. CEILING MOUNTED LIGHT FEATURE (N.L.O.) (E) CONDUIT AND TERMINATION AT CEILING FINISH TO REMAIN FOR FUTURE LIGHT CEILING FINISH CHANGES. (E) CONDUIT WHEN THICKNESS OF CEILING FINISH CHANGED. RESIZE (E) BRACKET TO MATCH PROVIDE THE MANUFACTURER'S APPROVED BRACKET WITH FORMED CHANNEL TO (E) CEILING FRAMES (N.Y.)
2. (E) FIRE SPRINKLER HEAD (E) SPRINKLER HEAD WHEN THICKNESS OF CEILING FINISH CHANGED. RESIZE (E) BRACKET TO MATCH PROVIDE THE MANUFACTURER'S APPROVED BRACKET WITH FORMED CHANNEL TO (E) CEILING FRAMES (N.Y.)
3. (E) AIR SUPPLY & RETURN GRILLE - REMOVE AND REINSTALL. CONSTRUCTION IS FINISHED.
4. (E) CEILING MOUNTED SMOKE DETECTOR. REINSTALL AFTER CONSTRUCTION IS FINISHED.
5. (E) CEILING MOUNTED HEAT DETECTOR. REINSTALL AFTER CONSTRUCTION IS FINISHED.
6. (E) CEILING MOUNTED FIRE ALARM WITH COVER EXTENSION FRAME AT (E) SUPPORT FRAMING.
7. PROVIDE 1" FIRE RATED CEILING MOUNTED ACCESS DOOR & EXTENSION FRAME AT (E) SUPPORT FRAMING.
8. NOT USED.
9. (E) RECESSED CEILING MOUNT SPEAKER. PROVIDE FIRE RATED HOUSING OR COVER.
10. (E) CEILING MOUNT EXIT SIGN - REMOVE AND REINSTALL. EXTEND CONDUIT WHEN THICKNESS OF CEILING FINISH CHANGED.
11. (E) CEILING TRACK - REMOVE AND REINSTALL AT (E) SUPPORT.
12. (E) GRILLE FOR EXHAUST FAN. REINSTALL AT (E) SUPPORT.
13. (E) ROOF HATCH TO REMAIN.

CEILING LEGEND:

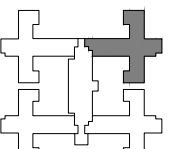
- CHURNIN TRACK ON CEILING
- EXIT SIGN
- FIRE SPRINKLER
- SPEAKER
- TWO WAY SPEAKER
- WIRELESS ACCESS POINTS
- MISC. WEP DEVICES
- HEAT DETECTOR
- SMOKE DETECTOR
- × FIRE ALARM STROBE
- FIRE ALARM STROBE
- SECURITY STROBE
- NOTIFICATION LIGHT
- ACCESS PANEL
- AIR TERMINALS
- (ARROWS) (SIZE & SIZE)
- LIGHTING FIXTURES (VARIOUS TYPES & SIZES)

WALL LEGEND:

- ===== 6" CONCRETE WALL
- ===== 2-1/2" SOLID PLASTER WALL
- ===== 4" PLASTER ON METAL STUD

NOTES:

1. PROVIDE FIRESTOP ASSEMBLY AT NEW AND EXISTING PENETRATIONS.
2. PAINT CEILING ACROSS ENTIRE ROOM OR TO MATERIAL BREAK POINT.
3. REINSTALL (E) CEILING ACCESS PANELS TO ORIGINAL LOCATION AT EXISTING FRAME. PROVIDE IN FRAMEWORK AT THE CORNER.
4. ALL CEILING AND WALL MOUNTED FIXTURES AND CONDUIT TO BE REMOVED FROM THE WORK AREA SHALL BE REMOVED, PROTECTED, AND REINSTALLED.
5. WHEN DISCONNECTION OF FIRE PROTECTION SYSTEM AND UTILITY SERVICE IS REQUIRED, INFORM DATE AND PERIOD TO FACILITY MANAGER AND PROJECT ARCHITECT IN ADVANCE.
6. FIELD VERIFY ALL UTILITY AND FIRE PROTECTION SYSTEMS ARE FACILITY MANAGER AND PROJECT ARCHITECT IF ANY SYSTEM DOES NOT FUNCTION.



DSH-METROPOLITAN SNF BLDG

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 707 Third Street, Suite 3200
 Sacramento, CA 95833
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JGCA - JG CONSULTANTS INC.
 11401 Blenheim Ave.
 Newport, CA 95058
 (916) 227-9277 FAX

NO.	DATE	DESCRIPTION
1	10/01/11	FINAL DESIGNING V1
2	03/02/12	FINAL DESIGNING V2
3	05/02/12	FINAL DESIGNING V3
4	03/02/12	FINAL DESIGN - FINAL 2

Project: DSH-METROPOLITAN SNF BLDG RE-ROOF LEAK DAMAGE REPAIR PROJECT
 11401 Blenheim Ave., Newport, CA 95058
 DGS PROJECT #0550000142102
 SPM FAC #19-14-0002

Client: SACRAMENTO COUNTY
 Designer: JGCA
 V.L.L. M.K.K.
 M.K.K. M.K.K.

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

Sheet Title: UNIT 418 CEILING PLAN

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

AS STOVAN
 SHEET NUMBER
 A2.2

PHASE: 102 CEILING REPAIR

PHOTO 47



PHOTO 48



PHOTO 49



PHOTO 51



PHOTO 52



PHOTO 53



PHOTO 55



PHOTO 3



PHOTO 4



PHOTO 7



PHOTO 9



PHOTO 10



PHOTO 12



PHOTO 16



PHOTO 19



PHOTO 23



PHOTO 24



PHOTO 71



PHOTO 72



PHOTO 73

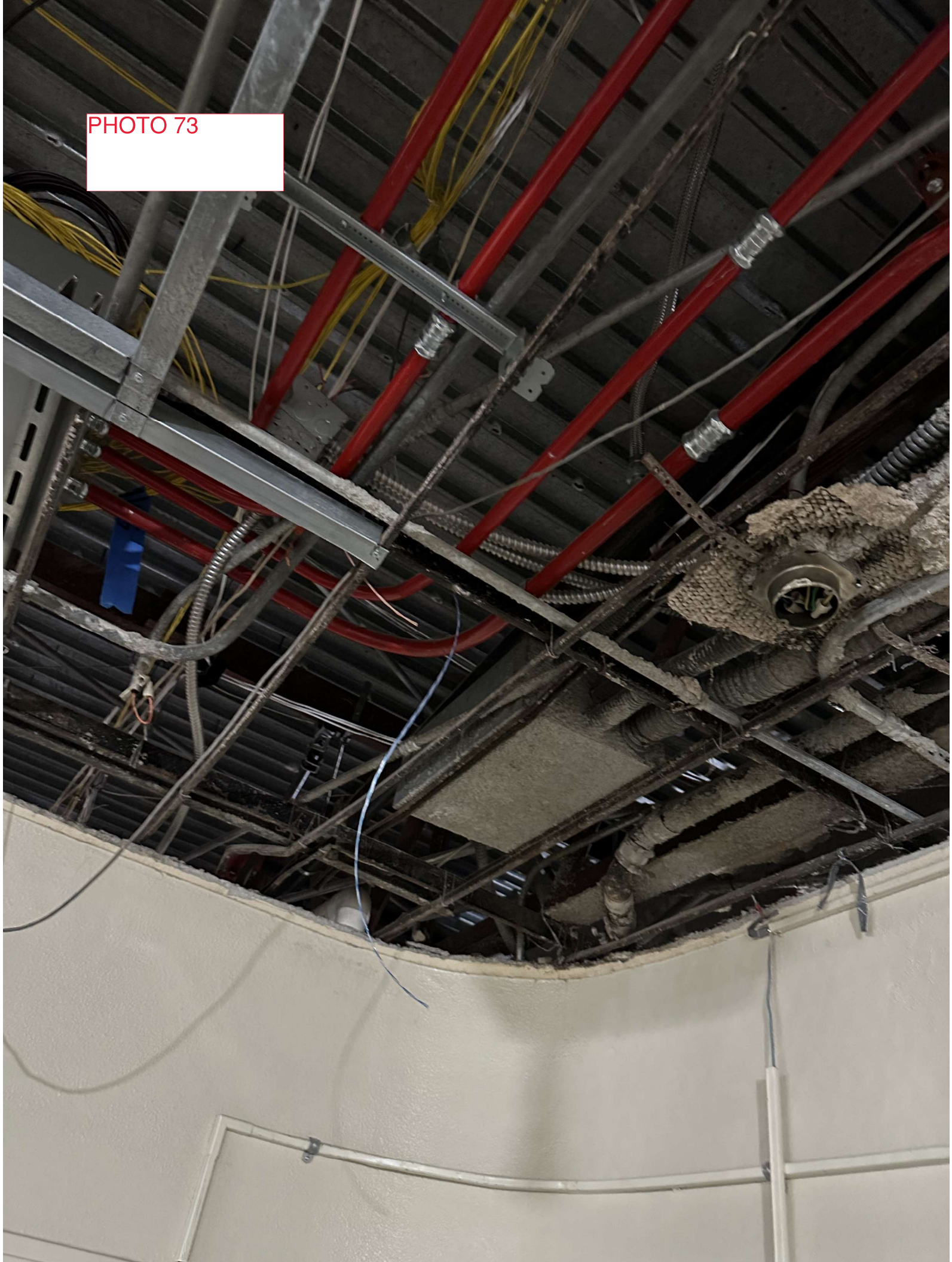


PHOTO 76



PHOTO 77



PHOTO 78

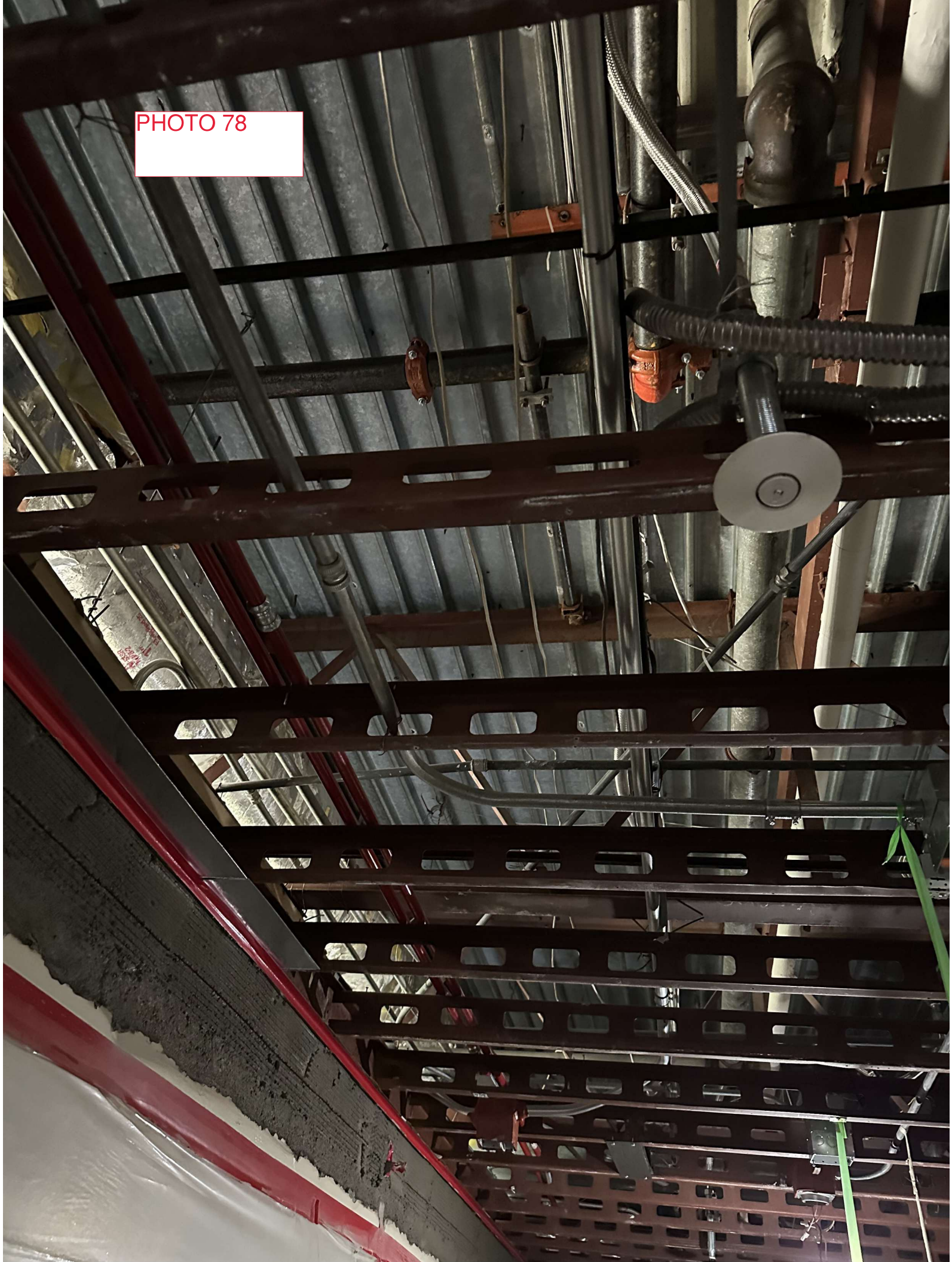




PHOTO 79

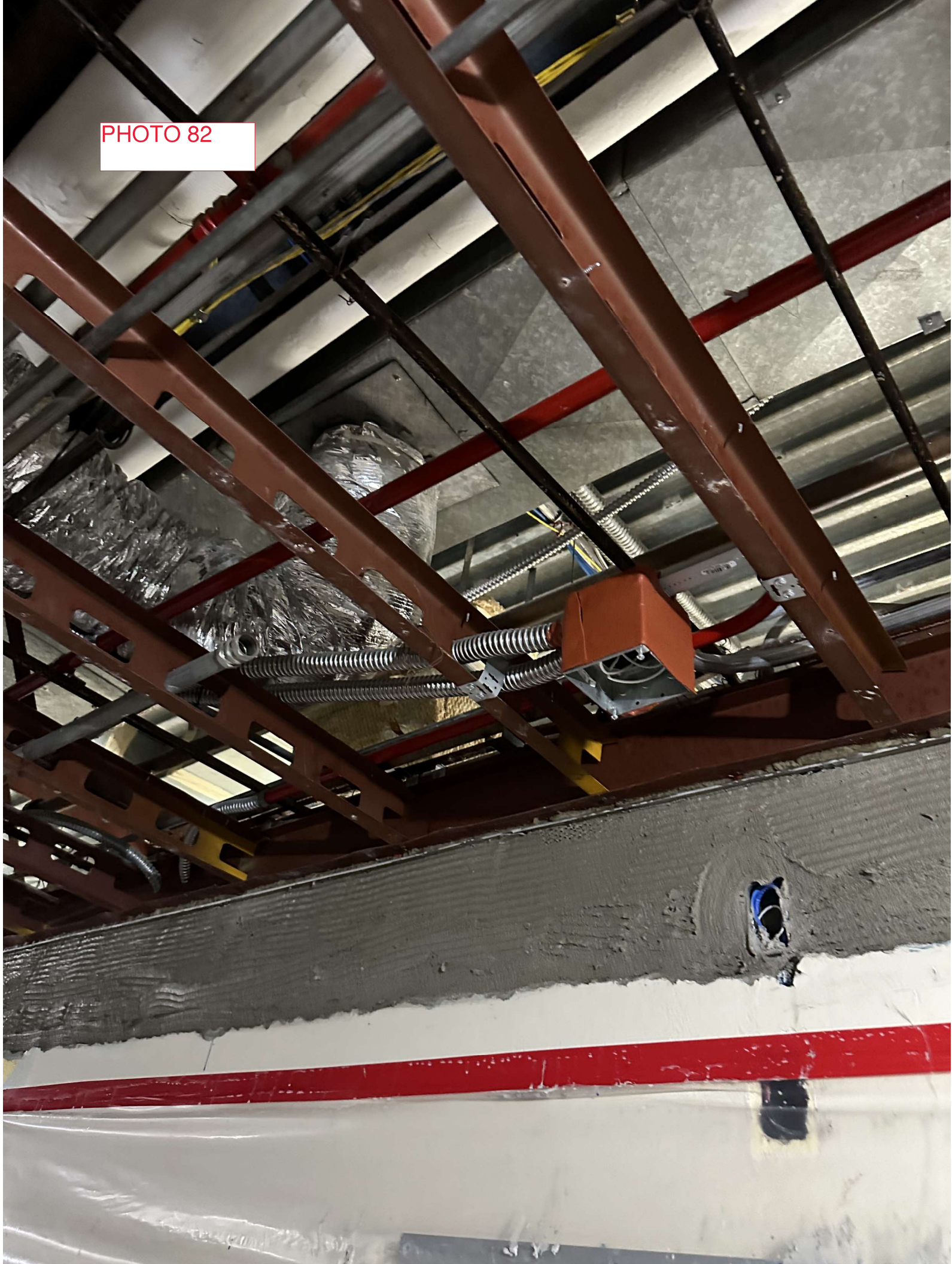
PHOTO 80

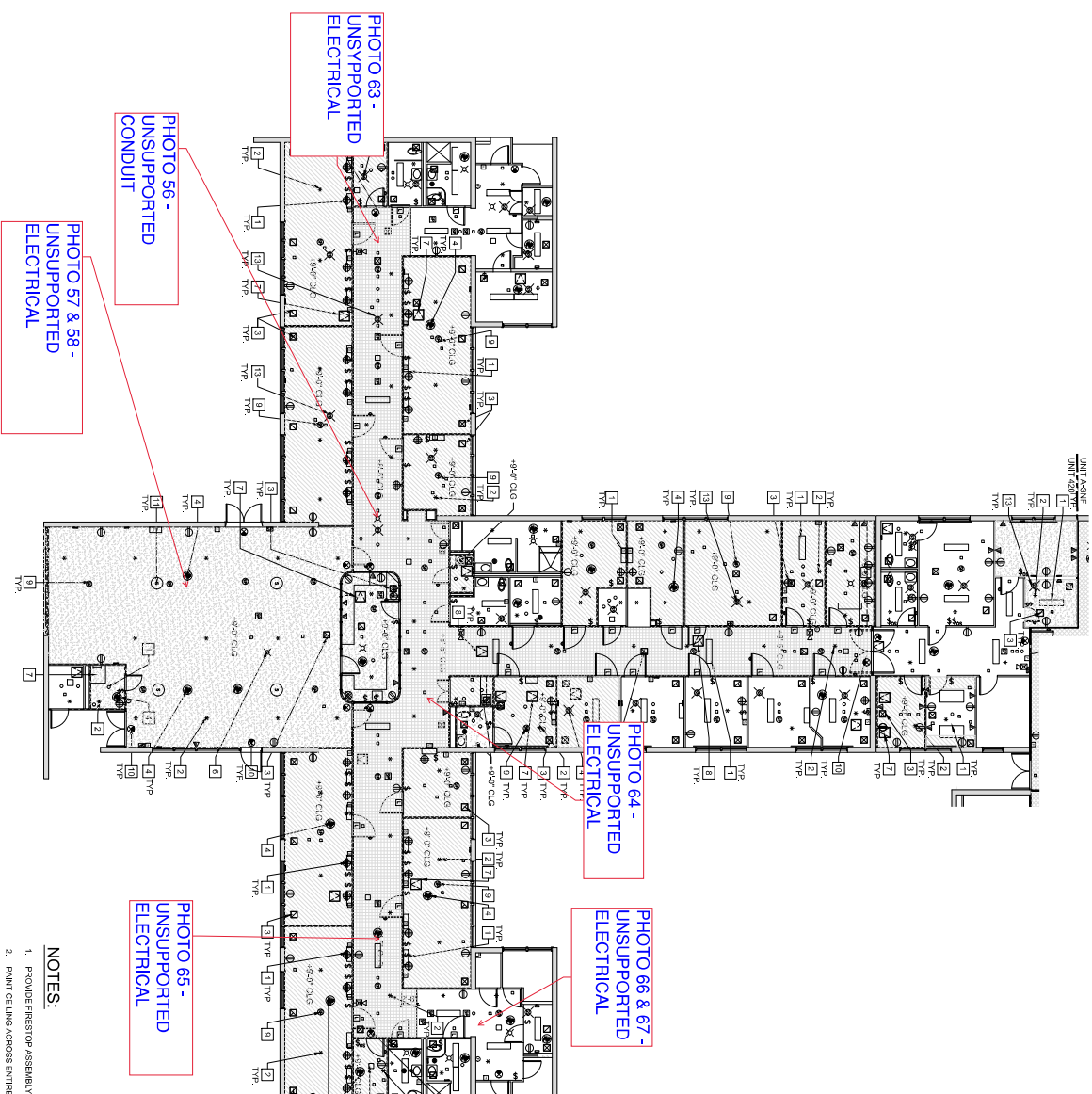


PHOTO 81



PHOTO 82





UNIT 420 - CEILING PLAN
 SCALE: 1/8" = 1'-0"



WALL LEGEND:

- 8" CONCRETE WALL
- 2-1/2" SOLID PLASTER WALL
- PLASTER ON METAL STUD

CEILING LEGEND:

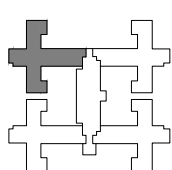
- CURTAIN TRACK ON CEILING
- EXIT SIGN
- FIRE SPRINKLER
- SPEAKER
- TWO WAY SPEAKER
- WIRELESS ACCESS POINTS
- MISC. MEP DEVICES
- HEAT DETECTOR
- SMOKE DETECTOR
- FIRE ALARM STROBE
- SECURITY STROBE
- FIRE ALARM CHIME STROBE
- NOTIFICATION LIGHT
- ACCESS PANEL
- AIR TERMINALS
- (VARIOUS TYPES & SIZES)
- LIPTING FIXTURES (VARIOUS TYPES & SIZES)

NEW WORK KEYNOTES:

1. CEILING MOUNTED LIGHT FIXTURE (N.C.), (E) CONDUIT AND PATTERN INSTALLATION, EXTERIOR CONDUIT WHEN THICKNESS OF CEILING FINISH CHANGED.
2. (E) FIRE SPRINKLER-HEAD - LOWER "A" HEAD WHEN THICKNESS OF CEILING FINISH CHANGED. (E) BRACKET TO ATTACH FIRING CHANNEL TO (E) CEILING FRAMING.
3. (E) AIR SUPPLY & RETURN GRILLE - REMOVE AND REINSTALL AFTER CONSTRUCTION IS FINISHED.
4. (E) CEILING MOUNTED HEAVY DETECTOR - REINSTALL AFTER CONSTRUCTION IS FINISHED.
5. (E) CEILING MOUNTED FIRE ALARM WITH COVER PROVIDE 1 HR PRE-FRATED CEILING MOUNTED ACCESS DOOR & EXTENSION FRAME AT (E) SUPPORT FRAMING.
6. NOT USED.
7. (E) RECESSED CEILING MOUNT SPEAKER PROVIDE FIRE RATED HOUSING ON COVER.
8. (E) CEILING MOUNT EXH SIGN - REMOVE AND REINSTALL EXTEND CONDUIT WHEN THICKNESS OF CEILING FINISH CHANGED.
9. (E) CURTAIN TRACK - REMOVE AND REINSTALL AT (E) SUPPORT OR GRILLE FOR EXHAUST FAN, REINSTALL AT (E) SUPPORT.

NOTES:

1. PROVIDE FIRESTOP ASSEMBLY AT NEW AND EXISTING PENETRATIONS.
2. PAINT CEILING ACCESS IN THE ROOM OR TO NATIONAL BREAK FRONT.
3. REINSTALL (E) CEILING ACCESS PANELS TO ORIGINAL LOCATION AT EXISTING FRAME, PROVIDE (N) FRAMING AT THE CORNER.
4. ALL CEILING AND WALL MOUNTED FIXTURES AND CONDUIT TO BE FROM REINSTALLATION.
5. WHICH DISCONTINUATION OF FIRE PROTECTION SYSTEMS AND UTILITY SERVICE IS REQUIRED FROM DATE AND PERIOD TO FACILITY MANAGER AND PROJECT ARCHITECT IN ADVANCE.
6. FIELD VERIFY ALL UTILITY AND FIRE PROTECTION SYSTEMS ARE WORKING PROPERLY BEFORE BEGINNING OF PROJECT. NOTIFY THE FACILITY MANAGER AND PROJECT ARCHITECT IF ANY SYSTEM DOES NOT FUNCTION.



S.N.F. BUILDING KEYSAN

SSA STAMP

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 Novato, CA 94949
 415-892-1100
 DGS PROJECT #02580001421125
 S.N.F. BLDG #19-14-42002

Project: DSH-METROPOLITAN S.N.F. BLDG RE-ROOF LEAK DAMAGE REPAIR PROJECT
 11401 Bordenfield Ave. Novato, CA 94949
 415-892-1100
 DGS PROJECT #02580001421125
 S.N.F. BLDG #19-14-42002

NO.	DATE	REVISION
1	10/14/21	FINAL DRAWINGS V1
2	3/2/22	FINAL DRAWINGS V2
3	5/10/22	FINAL DRAWINGS V3
4	6/2/22	FINAL DRAWING - FINAL & 2

Author: JCC/JCC
 Designer: JCC/JCC
 Checker: JCC/JCC
 Title: V.L.L. / M.K.R.

Phase: 102 CEILING REPAIR
 A2.5

PHOTO 56

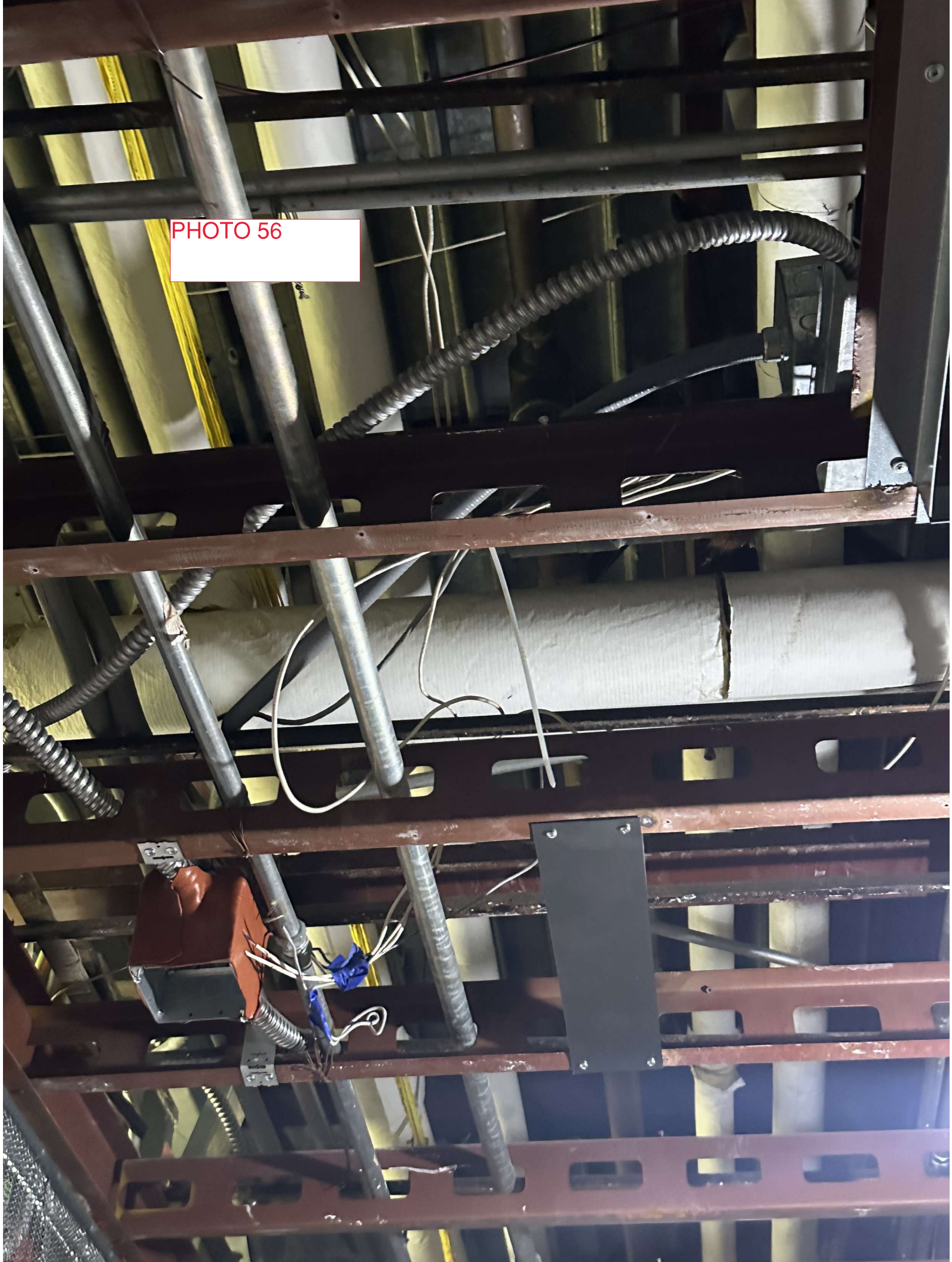


PHOTO 57



PHOTO 58



PHOTO 63



PHOTO 64

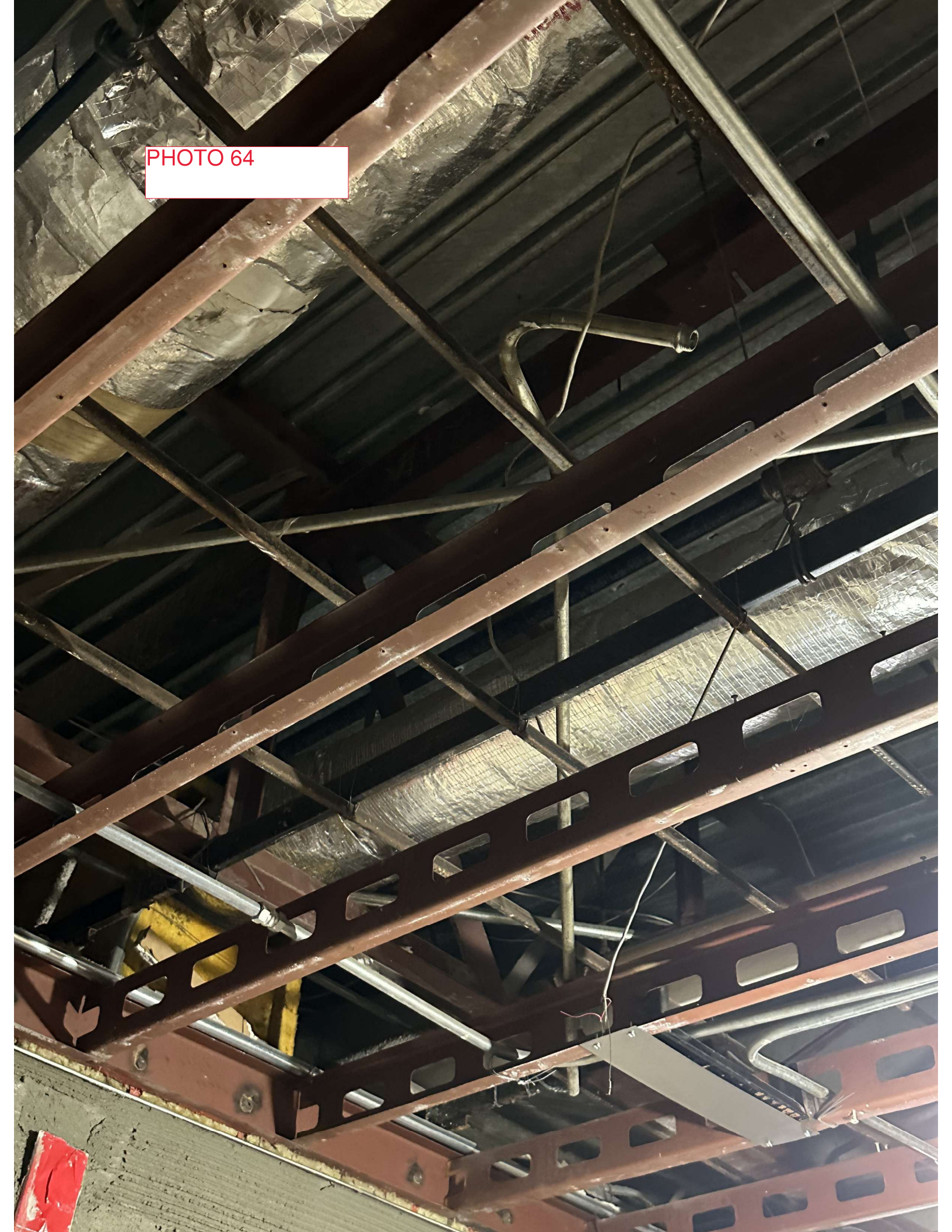


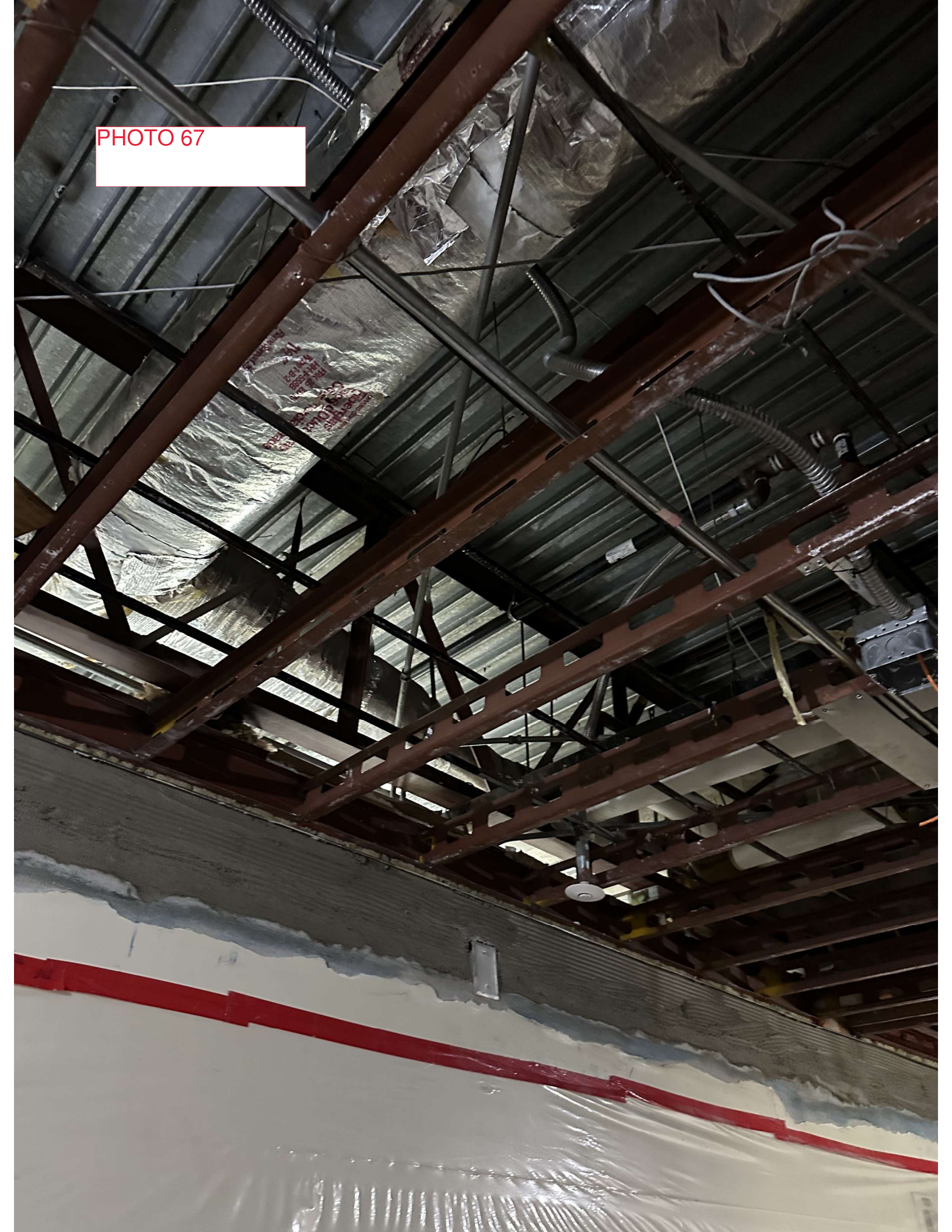
PHOTO 65



PHOTO 66



PHOTO 67



RFI detail

#84 Day Room & Cafeteria Lighting



Status	 Open In Review
Created on	Jul 2, 2024 by Keith Kulpinski (Kazoni Inc. dba Kazoni Construction)
RFI type	Default RFI workflow
Ball in court	Keith Kulpinski (Kazoni Inc. dba Kazoni Construction) April Kulpinski (Kazoni Inc. dba Kazoni Construction)
Due date	Jul 9, 2024

Question

These lights have not been specified by the design team. We are requesting that the design team provide specification for the surface mounted light fixtures for the day rooms and the cafeteria / dining.

Suggested answer

please provide specification.

Impact

Cost impact	Yes
Schedule impact	Yes

Other attributes

Priority	High
Discipline	Electrical
Category	Documentation Incomplete
Location	SNF Building Repair Project
Location details	Day Room & Cafeteria Lighting
External id	-

Co-reviewer(s)

Response:

Guidance was provided in response to Submittal 23. The lights proposed in the Submittal were a typical acrylic lens fixture suitable for an office environment. As the submittal comments explained, re-submittal was to include fixtures suitable for the environment, but it did not. The environment is a Skilled Nursing Facility in a Mental Healthcare Facility.

A typical high-abuse environment fixture is attached to the response to this submittal as friendly reference and guidance, but not a specification. The design team and the State (DGS/DSH) will review the product data for the fixture the Contractor will choose to submit, that is suitable for the environment using the submittal process.

Sevag Avanesian
2024-07-17

FOR REFERENCE ONLY NOT INTENDED AS A SPECIFICATION



Fail-Safe

FMS | LD4 LED

Confinement/Correctional Surface-mount LED
1' x 1', 1' x 2', 1' x 4', 2' x 2' and 2' x 4'

Typical Applications

Confinement • Security • Inmate Cells • Psychiatric Wards • Secure Corridors

Interactive Menu

- Order Information [page 2](#)
- Product Specifications [page 2](#)
- Nominal Input Watts/Delivered Lumens [page 3](#)
- Product Warranty

Product Certification



Product Feature

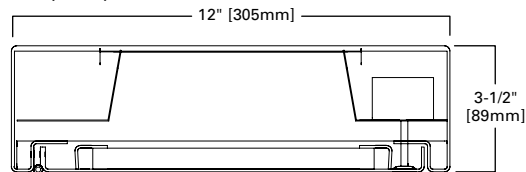


Top Product Features

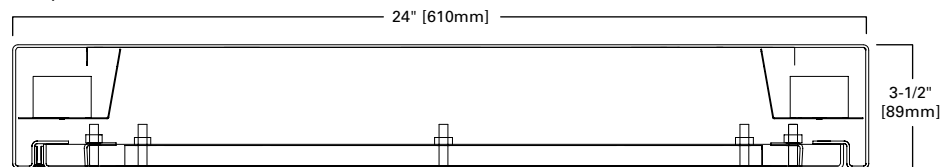
- Shallow depth of 3 1/2" for use with multiple ceiling heights
- Welded and ground housing for superior strength and aesthetics
- Die-formed 12- to 18-gauge steel one-piece housing
- Up to 1/2" thick clear polycarbonate or 3/8" thick clear tempered glass for maximum protection
- 3000K, 3500K, 4000K and 5000K CCT; 80 CRI minimum
- Options to meet Buy American Act requirements

Dimensional and Mounting Details

1' x 1', 1' x 2', 1' x 4'



2' x 2', 2' x 4'



additional product diagrams

Order Information

SAMPLE ORDER NUMBER: **FMS-X24-4-LD4-4STD-40-UNV-80/86-EDC1** or
FMS-S12-2-LD4-2HI-50-277-82/87-EDC1-EL10W

Domestic Preferences	Product Family	Door	Width	Length	LED	No. of LED	Illumination Level	Color Temp.	Voltage
Domestic Preferences ⁽¹⁾	Product Family	Door	Width	Length	LED	No. of LED	Illumination Level	Color Temp.	Voltage
[Blank] =Standard BAA =Buy American Act	FMS	S =12 ga. (Ultimax) X =14 ga. (Maximum) D =16 ga. (Medium) N =18 ga. (Minimum)	24 =24" Wide 12 =12" Wide	1 =1' Length (1' x 1' only) 2 =2' Length 4 =4' Length	LD4 =LED	1 =(1) LED Module 2 =(2) LED Modules 3 =(3) LED Modules (24" width only) 4 =(4) LED Modules (24" width only)	STD =Standard LO =Low HI =High	30 =3000K 35 =3500K 40 =4000K 50 =5000K	UNV =120V-277V 120 =120V 277 =277V 347 =347V ⁽⁶⁾
Notes ⁽¹⁾ Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.									Notes ⁽⁶⁾ 347 emergencies are not available. GLR option not available in 347

Inner Lens	Outer Lens	Electronic Driver	No. of Circuits	Options	Accessories
Inner Lens	Outer Lens	Electronic Driver	No. of Circuits	Options	Accessories ⁽⁷⁾
Fixture Side 80 =0.125 Prismatic Acrylic 81 =0.156 Prismatic Polycarbonate 82 =0.187 Prismatic Polycarbonate	Environment Side 84 =0.125 Clear Polycarbonate 85 =0.187 Clear Polycarbonate 86 =0.250 Clear Polycarbonate 87 =0.375 Clear Polycarbonate 88 =0.500 Clear Polycarbonate 94 =0.187 Clear Tempered Glass 96 =0.250 Clear Tempered Glass 97 =0.375 Clear Tempered Glass	EDC =Electronic Driver, Non-Dimming EDD =Electronic Driver, 0-10V Dimming, 10% ED1D =Electronic Driver, 0-10V Dimming, 1%	1 =1 Circuit 2 =2 Circuits 3 =3 Circuits 4 =4 Circuits	EL7W =Emergency Battery Pack, 7W Output ^{(2), (3), (6)} EL10W =Emergency Battery Pack, 10W Output ^{(2), (3), (6)} EL14W =Emergency Battery Pack, 14W Output ^{(2), (3), (6)} LLNL =Linear LED Night Light, Dimmable ^{(4), (5)} GLR =Fuse and Holder ⁽⁶⁾ WL =Wet Location Under Covered Ceiling Stainless Steel Fixture SSN =Natural Brushed Finish SSP =Polyester Powder Coat Finish Fasteners SF3 =Allen-Head (center pin reject)	9306 =Allen-Head Wrench VRSD =T20 Center Pin Tamperproof TORX® - head screwdriver Notes ⁽⁷⁾ Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
Notes ⁽²⁾ Not available 1' x 1' or 1' x 2'. ⁽³⁾ Emergency options are not available in 4HL. ⁽⁴⁾ LLNL not available in 1' x 1', 2-module LED cross section or 1' x 2', 2-module LED cross section. ⁽⁵⁾ Nominal 600 delivered lumens. ⁽⁶⁾ 347 emergencies are not available. GLR option not available in 347.				Notes ⁽⁷⁾ Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.	

Product Specifications

Application

- Confinement/correctional luminaire suitable for use in:
 - Inmate cells
 - Psychiatric wards
 - Secure corridors
 - General population areas
- Ideal surface-mount solution when a full door frame is desired

Housing

- Die-formed 12-, 14-, 16 or 18-gauge CRS body construction
- One-piece, seamless housing
- Continuous welded and ground ends
- Maximum impact resistance and prevention of unauthorized fixture penetration
- High gloss, electrostatically applied, White powder coat finish
- Average minimum reflectance 92%

Fasteners and Hinge

- Stainless steel tamper-resistant T20 TORX® screws with center pin reject standard
- Allen head screws with center pin reject optional
- Continuous, stainless steel piano hinge (1/4" diameter knuckle) with welded pin end, preventing removal

Door and Light Mask

- One-piece, CRS door frame with die-formed edges
- Tightly closed corners increase rigidity
- Door gauge matches housing
- Black fixture gasket prevents light leaks

Lens and Lens Retention

- Choice of prismatic acrylic, prismatic polycarbonate on fixture side
- Clear polycarbonate or clear tempered glass on environmental side (see lens options)
- Lens secured by thru-studs
- Vertically adjustable internal CRS hold-downs

LEDs

- Available in 3000K, 3500K, 4000K and 5000K; 80 CRI minimum
- Choice of Standard, Low or High illumination levels
- Projected life is 50,000 hours at 70% lumen maintenance

Electrical

- Electronic driver 120-277V, dimming driver standard
- 0-10V dimming down to 1% or 10%
- Non-dimming available

Compliance

- cULus listed for damp locations
- Wet location listed under covered ceiling optional

Warranty

- Five-year warranty on LEDs and electrical, consult website for details. www.cooperlighting.com/legal

TORX® is a registered trademark of Camcar Division of Textron Inc.

Nominal Input Watts/Delivered Lumens

 [View IES files](#)

*CRI: 80; CCT: 4000				80/84 Shielding	
Fixture Size	# Modules	Level	Nominal Input Watts	Nominal Delivered Lumens	LPW
1' x 1'	1	LO	5.85	642	109.7
	1	STD	8.325	859	103.2
	1	HI	10.8	1054	97.6
	2	LO	11.7	1284	109.7
	2	STD	16.65	1719	103.2
	2	HI	21.6	2108	97.6
1' x 2'	1	LO	11.7	1244	106.3
	1	STD	16.65	1666	100.1
	1	HI	21.6	2044	94.6
	2	LO	23.4	2488	106.3
	2	STD	33.3	3332	100.1
	2	HI	43.2	4087	94.6
1' x 4'	1	LO	23.4	2709	115.8
	1	STD	33.3	3628	108.9
	1	HI	43.2	4450	103
	2	LO	46.8	5418	115.8
	2	STD	66.6	7256	108.9
	2	HI	86.4	8900	103
2' x 2'	1	LO	11.7	1591	136
	1	STD	16.65	2131	128
	1	HI	21.6	2614	121
	2	LO	23.4	3183	136
	2	STD	33.3	4263	128
	2	HI	43.2	5228	121
	3	LO	35.1	4774	136
	3	STD	49.95	6394	128
	3	HI	64.8	7843	121
	4	LO	46.8	6366	136
	4	STD	66.6	8525	128
	4	HI	86.4	10457	121
2' x 4'	1	LO	23.4	3183	136
	1	STD	33.3	4263	128
	1	HI	43.2	5228	121
	2	LO	46.8	6366	136
	2	STD	66.6	8525	128
	2	HI	86.4	10457	121
	3	LO	70.2	9549	136
	3	STD	99.9	12788	128
	3	HI	129.6	15685	121
	4	LO	93.6	12732	136
	4	STD	133.2	17050	128
	4	HI	172.8	20913	121

Lumen Calculator

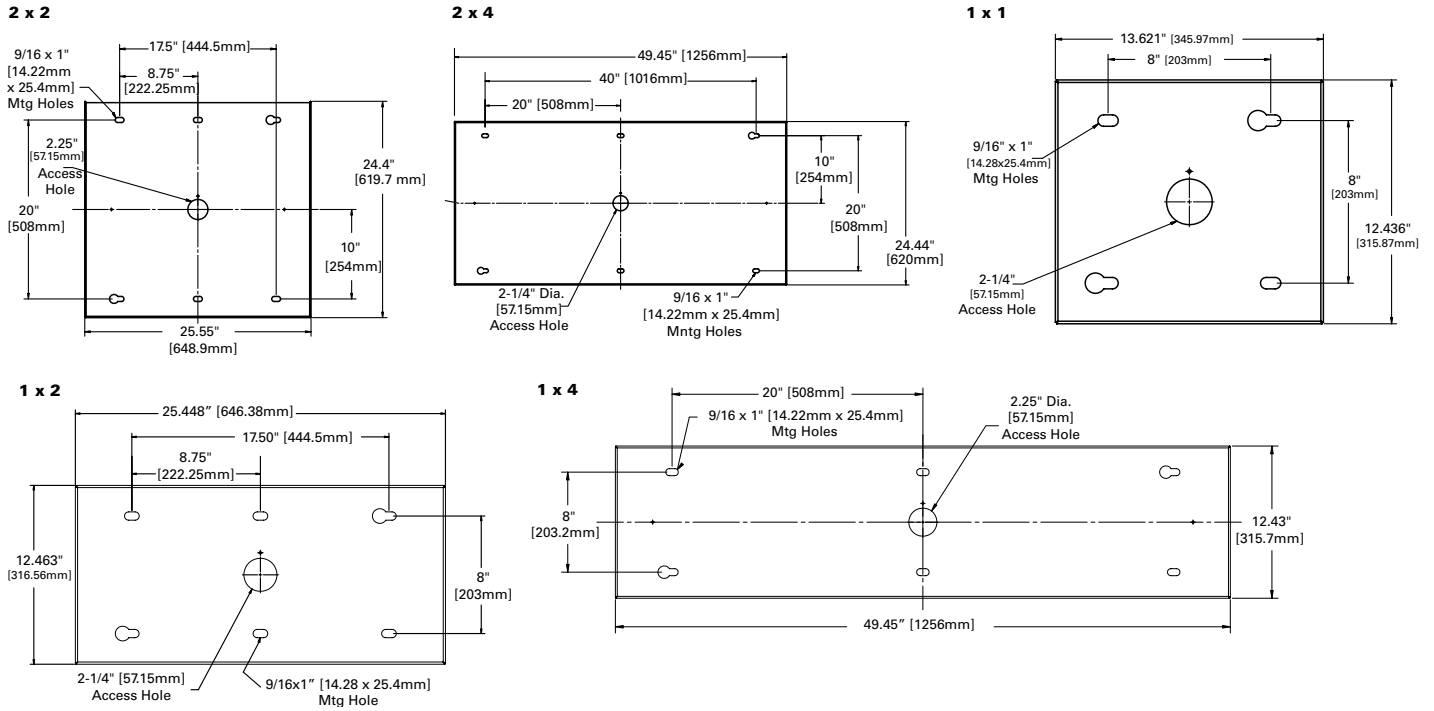
CCT	Multiplier
2000	0.673
2700	0.893
3000	0.943
3500	0.99
4000	1
5000	1.017

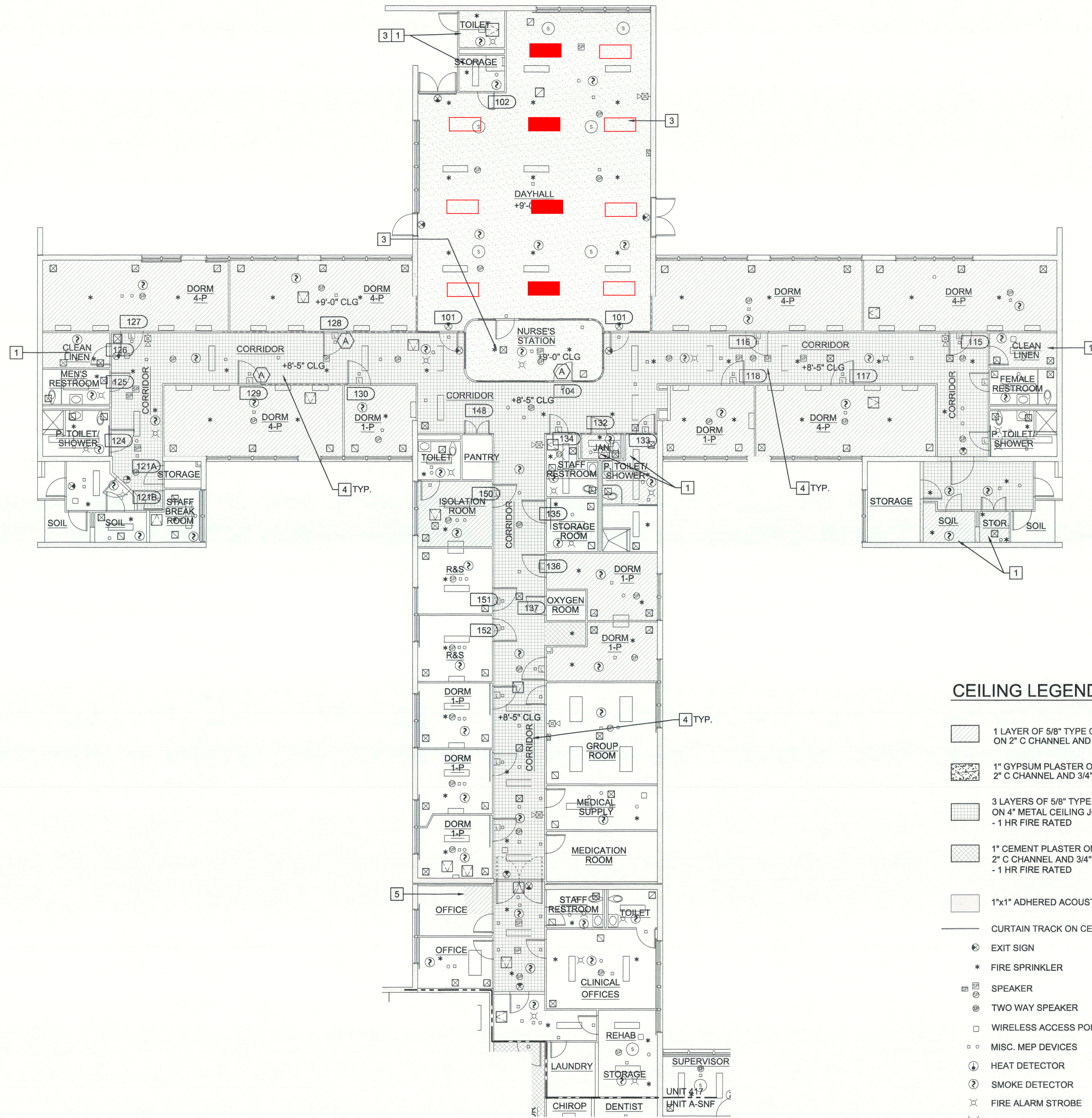
Lens Multiplier Table

	Lens	Multiplier
Fixture Side	80	1
	81	0.95
	82	0.93
Environment Side	84	1
	85	0.981
	86	0.969
	87	0.938
	88	0.844
	94	1
	96	0.991
97	0.956	

Nominal input wattage values include LED voltage, drive current, and typical driver efficiency. Refer to LM79 data/photometric files for exact delivered lumen values and input wattage. Values in table are nominal values only.

Dimensional and Mounting Details





UNIT 417 - CEILING FINISH PLAN
 SCALE: 0 4 8 FEET 16
 1/8" = 1'-0"

NEW WORK KEYNOTES:

- (E) - EXISTING
 (N) - NEW
- 1 PAINT CEILING FINISH. PROVIDE PRIMER SUITABLE FOR SUBSTRATE AND MIN. 3 COATS OF PAINT. VOC CONTENT SHALL BE ZERO OR NO MORE THAN 50 G/L. COLOR SELECTED BY FACILITY MANAGER FROM THE MANUFACTURER'S FULL SELECTION.
 - 2 NOT USED.
 - 3 REMOVE WATER DAMAGED METAL LATH. (E) CEILING SUPPORT TO REMAIN AND PROTECT. PROVIDE PLASTER TO MATCH (E) MATERIAL AND THICKNESS. (2&3) (A3.2)
 - 4 PROVIDE FIRESTOP SEALANT TO ALL PENETRATION. (HILTI CP 606, FS-ONE MAX, OR UL CERTIFIED APPROVED EQUAL)
 - 5 SCREW (N) DRYWALL TO CHANNELS ALL SIDES. PROVIDE FRAMING UNDERNEATH IF NEEDED. SEAL JOINTS WITH COMPOUND AND REINFORCED TAPE. LEVEL 5 FOR EXPOSED FINISH. LEVEL 4 OR 3 FOR ACOUSTIC TILE CEILING. (4&5) (A3.2)

CEILING LEGEND:

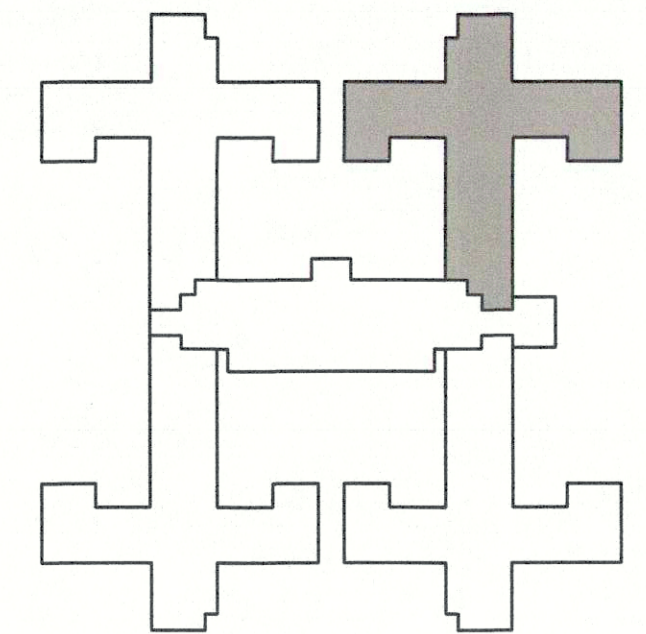
- 1 LAYER OF 5/8" TYPE C GYPSUM BOARD ON 2" C CHANNEL AND 7/8" HAT CHANNEL (4&5) (A3.2)
- 1" GYPSUM PLASTER ON METAL LATH 2" C CHANNEL AND 3/4" C CHANNEL (2&3) (A3.2)
- 3 LAYERS OF 5/8" TYPE 'X' GYPSUM BOARD ON 4" METAL CEILING JOIST - 1 HR FIRE RATED (3A) (3B) (A3.1) (A3.1)
- 1" CEMENT PLASTER ON METAL LATH 2" C CHANNEL AND 3/4" C CHANNEL - 1 HR FIRE RATED (2&3) (A3.2)
- 1"x1" ADHERED ACOUSTIC TILES ON CEILING
- CURTAIN TRACK ON CEILING
- EXIT SIGN
- FIRE SPRINKLER
- SPEAKER
- TWO WAY SPEAKER
- WIRELESS ACCESS POINTS
- MISC. MEP DEVICES
- HEAT DETECTOR
- SMOKE DETECTOR
- FIRE ALARM STROBE
- SECURITY STROBE
- FIRE ALARM CHIME STROBE WALL MOUNTED
- NOTIFICATION/CALL LIGHT
- ACCESS PANEL
- AIR TERMINALS (VARIOUS TYPES & SIZE)
- LIGHTING FIXTURES (VARIOUS TYPES & SIZE)

WALL LEGEND:

- 8" CONCRETE WALL (5) (A3.1)
- 2-1/2" SOLID PLASTER WALL (4A) (4B) (A3.1) (A3.1)
- 4" PLASTER ON METAL STUD

DOOR LEGEND:

- SEE 6/A3.1 FOR DOOR TYPES
 DOOR TYPE



DSA STAMP

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 707 Third Street, Suite 3-305
 Sacramento, California 95605
 Project Director:
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 (916) 376-1677 (Fax)
 www.dgs.ca.gov

Approval of this plan does not constitute approval of any deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plan shall be available on the project site at all times.
 APR 19 2022
 OFFICE OF THE STATE FIRE MARSHAL
 APPROVED FOR RECORDING ONLY
 Reviewed by: [Signature]

REGISTERED ARCHITECT
 J.C. CHANG & ASSOCIATES, INC.
 No. C-37614
 Exp. 1/31/23
 STATE OF CALIFORNIA

JCCA #17038-1
 ENGINEERS * ARCHITECTS * PLANNERS
 385 MAIN STREET, SUITE 200 TORRANCE, CALIFORNIA 90501
 PH (310) 212-7164 FAX (310) 212-9272

No.	Date	Description
-	11/01/21	FINAL DRAWINGS V1
-	3/2/22	FINAL DRAWINGS V2

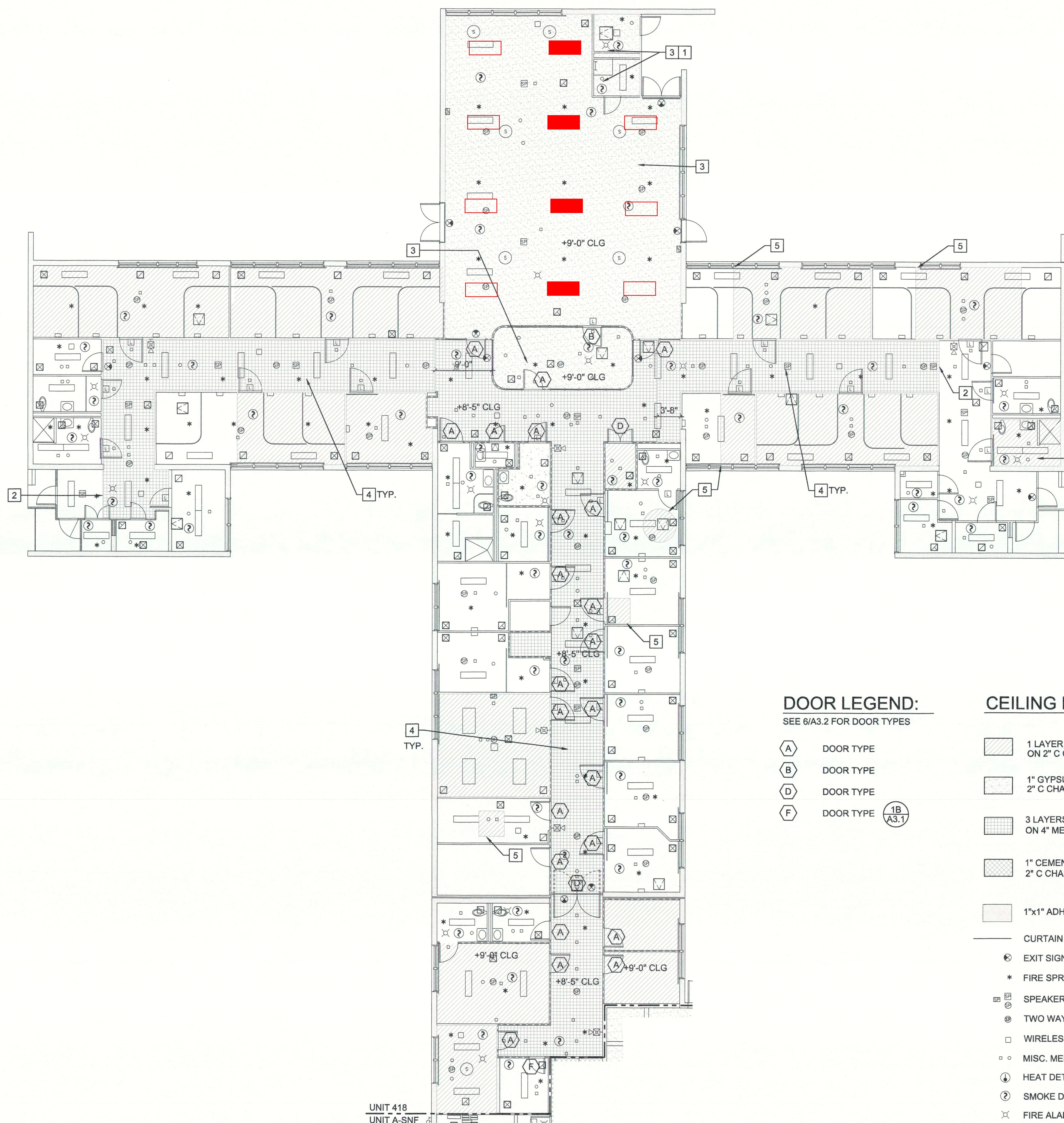
Project
DSH-METROPOLITAN SNF BLDG RE-ROOF LEAK DAMAGE REPAIR PROJECT
 11401 Bloomfield Ave.
 Norwalk, CA. 90650
 Los Angeles County
 DGS PROJECT # DGS0000142412C
 SFM FAC #19-19-43-0002

Supervisor	Designed	Drawn	Checked
MJK		V.L.	MJK

Sheet Title
UNIT 417 CEILING FINISH PLAN

DSA Building Number	Work Order
-	-

Reference North	Sheet Scale
	AS SHOWN
	Sheet Number
	A2.1.1



UNIT 418 - CEILING FINISH PLAN
 SCALE: 0 4 8 FEET 16
 1/8" = 1'-0"

NEW WORK KEYNOTES:

- (E) - EXISTING
 (N) - NEW
- 1 PAINT CEILING FINISH. PROVIDE PRIMER SUITABLE FOR SUBSTRATE AND MIN. 3 COATS OF PAINT. VOC CONTENT SHALL BE ZERO OR NO MORE THAN 50 G/L. COLOR SELECTED BY FACILITY MANAGER FROM THE MANUFACTURER'S FULL SELECTION.
 - 2 SOFFIT. (11) (A3.3)
 - 3 REMOVE WATER DAMAGED METAL LATH. (E) CEILING SUPPORT TO REMAIN AND PROTECT. PROVIDE PLASTER TO MATCH (E) MATERIAL AND THICKNESS. (2&3) (A3.2)
 - 4 PROVIDE FIRESTOP SEALANT TO ALL PENETRATION. (HILTI CP 606, FS-ONE MAX, OR UL CERTIFIED APPROVED EQUAL)
 - 5 SCREW (N) DRYWALL TO CHANNELS ALL SIDES. PROVIDE FRAMING UNDERNEATH IF NEEDED. SEAL JOINTS WITH COMPOUND AND REINFORCED TAPE. LEVEL 5 FOR EXPOSED FINISH. LEVEL 4 OR 3 FOR ACOUSTIC TILE CEILING. (4&5) (A3.2)

DOOR LEGEND:
 SEE 6/A3.2 FOR DOOR TYPES

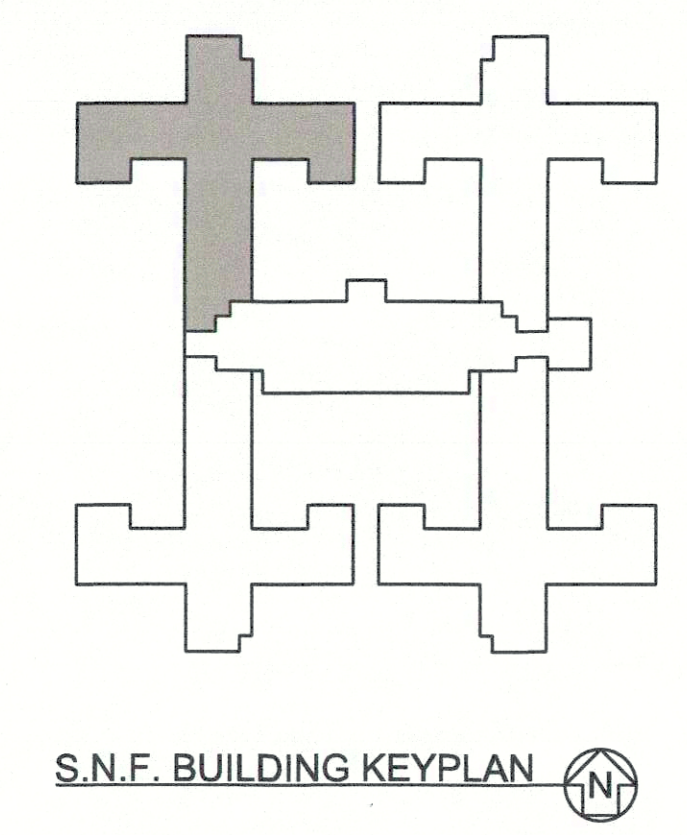
- (A) DOOR TYPE
- (B) DOOR TYPE
- (D) DOOR TYPE
- (F) DOOR TYPE (1B) (A3.1)

CEILING LEGEND:

- 1 LAYER OF 5/8" TYPE C GYPSUM BOARD ON 2" C CHANNEL AND 7/8" HAT CHANNEL (4&5) (A3.2)
- 1" GYPSUM PLASTER ON METAL LATH 2" C CHANNEL AND 3/4" C CHANNEL (2&3) (A3.2)
- 3 LAYERS OF 5/8" TYPE 'X' GYPSUM BOARD ON 4" METAL CEILING JOIST (3A) (3B) (A3.1) (A3.1)
- 1" CEMENT PLASTER ON METAL LATH 2" C CHANNEL AND 3/4" C CHANNEL (2&3) (A3.2)
- 1"x1" ADHERED ACOUSTIC TILES ON CEILING
- CURTAIN TRACK ON CEILING
- EXIT SIGN
- * FIRE SPRINKLER
- SPEAKER
- TWO WAY SPEAKER
- WIRELESS ACCESS POINTS
- MISC. MEP DEVICES
- HEAT DETECTOR
- SMOKE DETECTOR
- FIRE ALARM STROBE
- SECURITY STROBE
- FIRE ALARM CHIME STROBE WALL MOUNTED
- NOTIFICATION/CALL LIGHT
- ACCESS PANEL
- AIR TERMINALS (VARIOUS TYPES & SIZE)
- LIGHTING FIXTURES (VARIOUS TYPES & SIZE)

WALL LEGEND:

- 8" CONCRETE WALL (5) (A3.1)
- 2-1/2" SOLID PLASTER WALL (4A) (4B) (A3.1) (A3.1)
- 4" PLASTER ON METAL STUD



DSA STAMP

State of California
 Department of General Services
 Real Estate Services Division
DGS
 Project Management Branch
 707 Third Street, Suite 3-305
 Sacramento, California 95605
 Project Director:
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 (916) 376-1677 (Fax)
 www.dgs.ca.gov

Approval of this plan does not constitute or approve any omission or deviation from applicable regulations. Final approval is not subject to field inspection. One set of approved plans shall be available on the project site at all times.
 APR 19 2022
 OFFICE OF THE STATE FIRE MARSHAL
 APPROVED FOR SIGNATURE ONLY
 Reviewed by: JASON SCHNEIDER, DSPFM III

REGISTERED ARCHITECT
 J.C. CHANG & ASSOCIATES, INC.
 No. C-37614
 Exp. 12/31/23
 STATE OF CALIFORNIA

JCCA #17038-1
 ENGINEERS • ARCHITECTS • PLANNERS
 885 VAN NESS AVENUE, SUITE 204
 TORRANCE, CALIFORNIA 90501
 TEL: (310) 212-7544
 FAX: (310) 212-8272

No.	Date	Description
-	11/01/21	FINAL DRAWINGS V1
-	3/2/22	FINAL DRAWINGS V2

Project
**DSH-METROPOLITAN
 SNF BLDG
 RE-ROOF LEAK
 DAMAGE REPAIR
 PROJECT**
 11401 Bloomfield Ave.
 Norwalk, CA. 90650
 Los Angeles County
 DGS PROJECT # DGS000001424120
 SFM FAC #19-19-43-0002

Supervisor	Designed	Drawn	Checked
MJK	V.L.	MJK	

Sheet Title
**UNIT 418
 CEILING FINISH PLAN**

DSA Building Number	Work Order
-	-

Reference North	Sheet Scale
	AS SHOWN
	Sheet Number
	A2.2.1

DATE PLOTTED: 04/19/2022 04:29:54
 FILE: P:\17038-1\Rev\Unit Ceiling Repair_SNF_DSH-Metro\CA\17038\A2.2.1.dwg

DOOR LEGEND:
SEE 6/A3.2 FOR DOOR TYPES

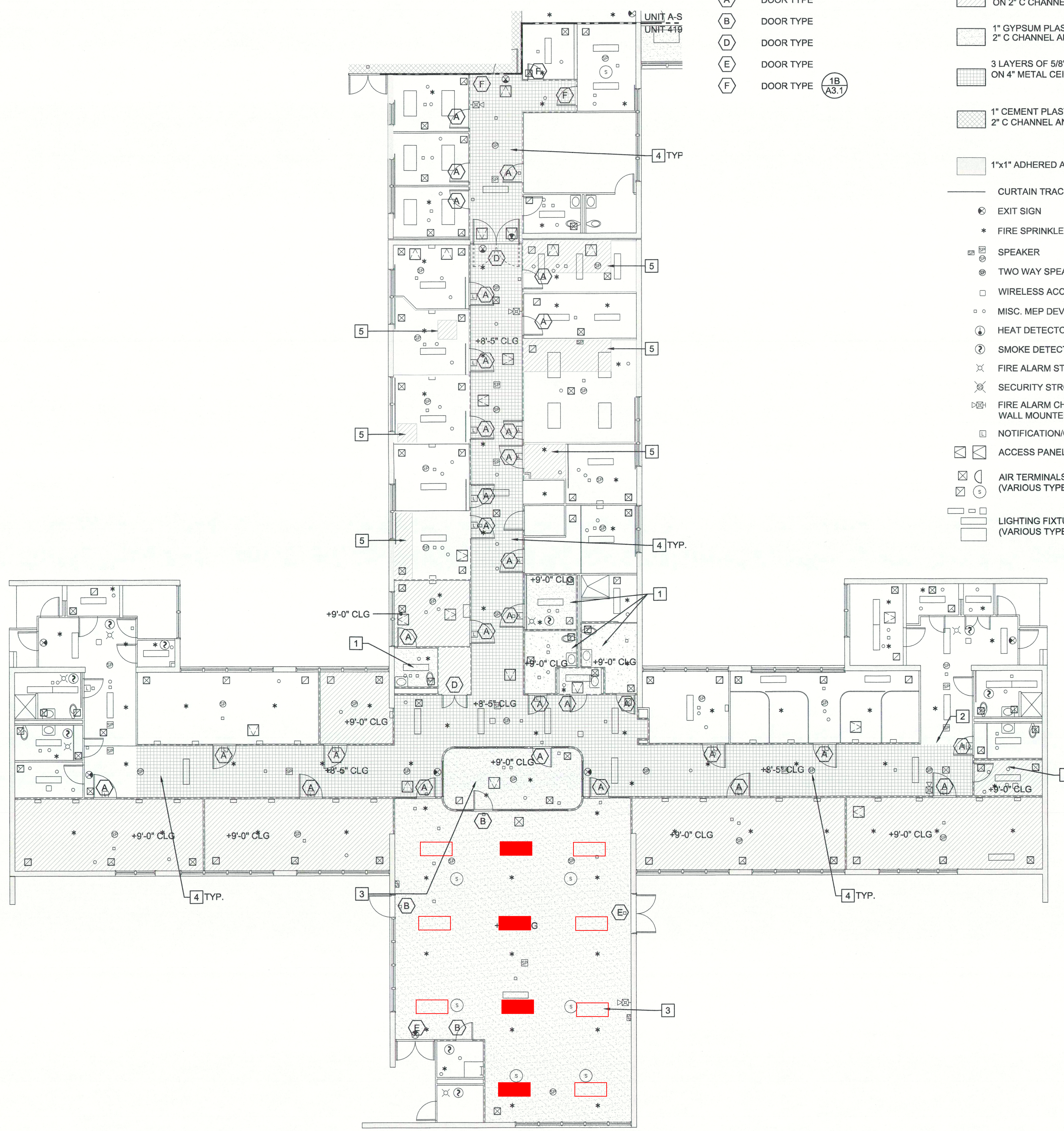
- (A) DOOR TYPE
- (B) DOOR TYPE
- (D) DOOR TYPE
- (E) DOOR TYPE
- (F) DOOR TYPE
- (1B) A3.1

CEILING LEGEND:

- 1 LAYER OF 5/8" TYPE C GYPSUM BOARD ON 2" C CHANNEL AND 7/8" HAT CHANNEL (4&5 A3.2)
- 1" GYPSUM PLASTER ON METAL LATH 2" C CHANNEL AND 3/4" C CHANNEL (2&3 A3.2)
- 3 LAYERS OF 5/8" TYPE 'X' GYPSUM BOARD ON 4" METAL CEILING JOIST (3A A3.1) (3B A3.1)
- 1" CEMENT PLASTER ON METAL LATH 2" C CHANNEL AND 3/4" C CHANNEL (2&3 A3.2)
- 1"x1" ADHERED ACOUSTIC TILES ON CEILING
- CURTAIN TRACK ON CEILING
- EXIT SIGN
- FIRE SPRINKLER
- SPEAKER
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- WIRELESS ACCESS POINTS
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- HEAT DETECTOR
- SMOKE DETECTOR
- FIRE ALARM STROBE
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- FIRE ALARM CHIME STROBE WALL MOUNTED
- NOTIFICATION/CALL LIGHT
- ACCESS PANEL
- AIR TERMINALS (VARIOUS TYPES & SIZE)
- LIGHTING FIXTURES (VARIOUS TYPES & SIZE)

WALL LEGEND:

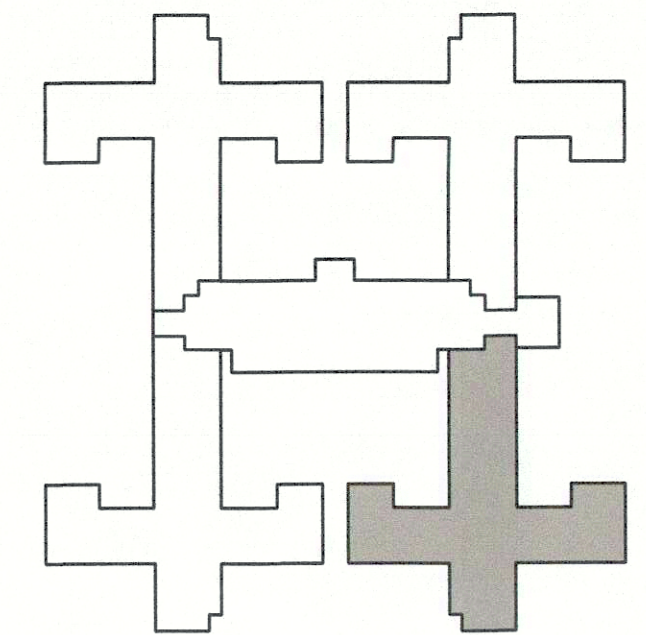
- 8" CONCRETE WALL (5 A3.1)
- 2-1/2" SOLID PLASTER WALL (4A A3.1) (4B A3.1)
- 4" PLASTER ON METAL STUD



UNIT 419 - CEILING FINISH PLAN
SCALE: 0 4 8 FEET 16
1/8" = 1'-0"

NEW WORK KEYNOTES:

- (E) - EXISTING
- (N) - NEW
- 1 PAINT CEILING FINISH. PROVIDE PRIMER SUITABLE FOR SUBSTRATE AND MIN. 3 COATS OF PAINT. VOC CONTENT SHALL BE ZERO OR NO MORE THAN 50 G/L. COLOR SELECTED BY FACILITY MANAGER FROM THE MANUFACTURER'S FULL SELECTION.
- 2 SOFFIT. (11 A3.3)
- 3 REMOVE WATER DAMAGED METAL LATH. (E) CEILING SUPPORT TO REMAIN AND PROTECT. PROVIDE PLASTER TO MATCH (E) MATERIAL AND THICKNESS. (2&3 A3.2)
- 4 PROVIDE FIRESTOP SEALANT TO ALL PENETRATION. (HILTI CP 606, FS-ONE MAX, OR UL CERTIFIED APPROVED EQUAL)
- 5 SCREW (N) DRYWALL TO CHANNELS ALL SIDES. PROVIDE FRAMING UNDERNEATH IF NEEDED. SEAL JOINTS WITH COMPOUND AND REINFORCED TAPE. LEVEL 5 FOR EXPOSED FINISH. LEVEL 4 OR 3 FOR ACOUSTIC TILE CEILING. (4&5 A3.2)



DSA STAMP

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APR 19 2022
OFFICE OF THE STATE FIRE MARSHAL
APPROVED FOR ARCHITECT ONLY
Reviewed by: [Signature]

J.C. CHANG & ASSOCIATES, INC.
No. C-37614
Exp. 1/31/23
STATE OF CALIFORNIA

JCCA #17038-1
Issue: 18-S-1084-C-P1

No.	Date	Description
-	11/01/21	FINAL DRAWINGS V1
-	3/2/22	FINAL DRAWINGS V2

Project
**DSH-METROPOLITAN
SNF BLDG
RE-ROOF LEAK
DAMAGE REPAIR
PROJECT**
11401 Bloomfield Ave.
Norwalk, CA. 90650
Los Angeles County
DGS PROJECT # DGS00000142412C
SFM FAC #19-19-43-0002

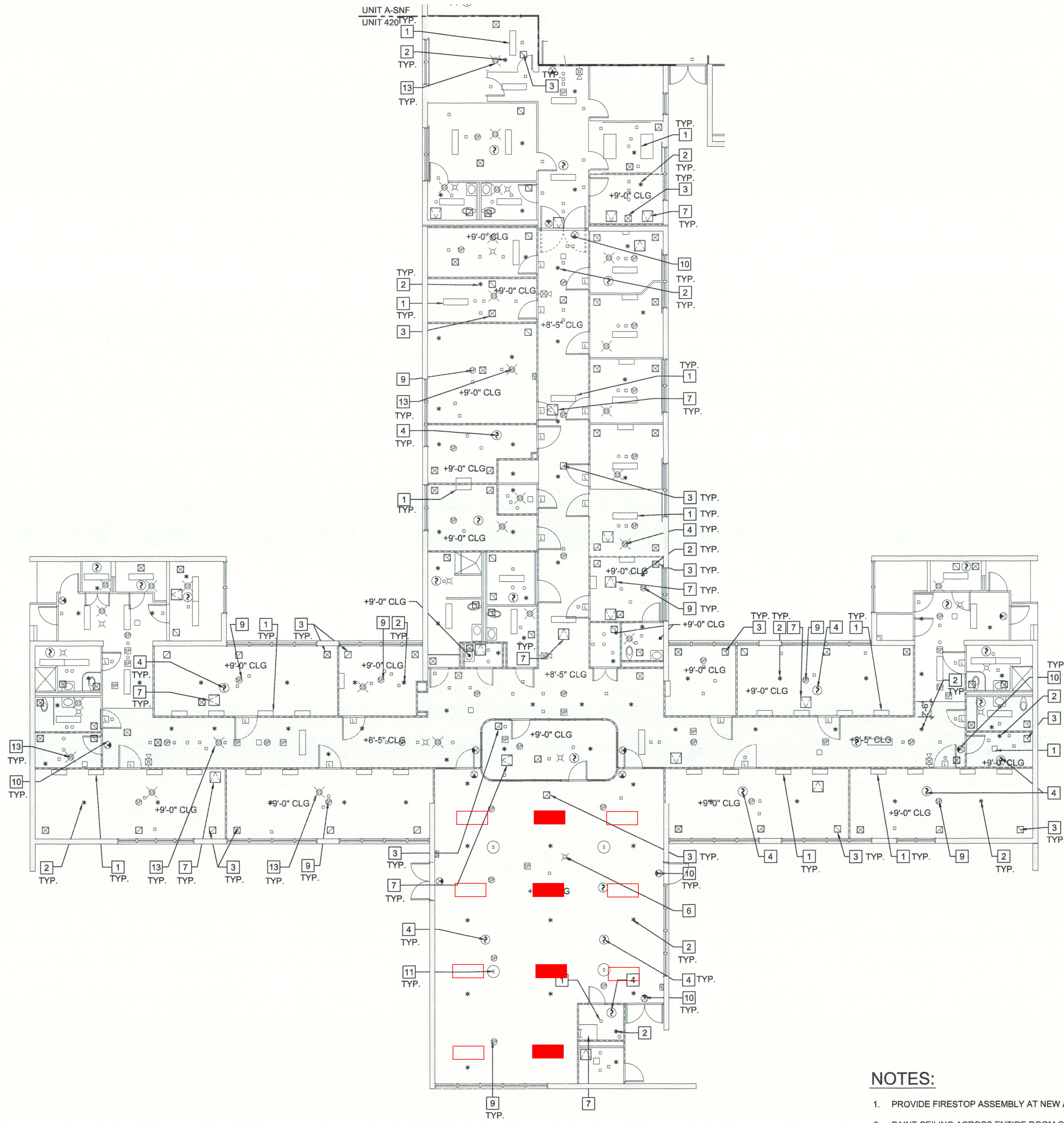
Supervisor	Designed	Drawn	Checked
MJK		V.L.	MJK

Sheet Title
**UNIT 419
CEILING FINISH PLAN**

Reference North	Sheet Scale
	AS SHOWN

Sheet Number
A2.4.1

DATE/TIME: 29 Mar 2022, 04:28PM
FILE: P:\111038-1 Roof Leak Ceiling Repair_SNF_DSJ-MetroCAD\17038162.4.dwg



UNIT 420 - CEILING PLAN
 SCALE: 0 4 8 FEET 16
 1/8" = 1'-0"



WALL LEGEND:

- 8" CONCRETE WALL (5/A3.1)
- 2-1/2" SOLID PLASTER WALL (4A/A3.1, 4B/A3.1)
- 4" PLASTER ON METAL STUD

CEILING LEGEND:

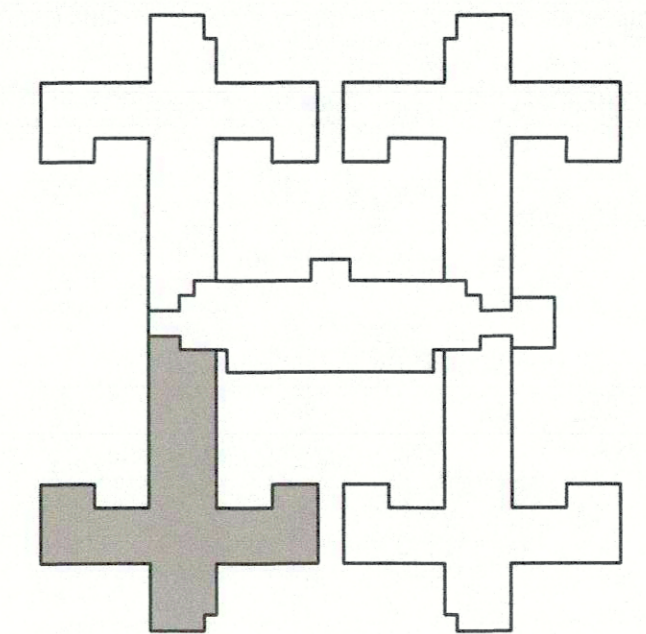
- CURTAIN TRACK ON CEILING
- EXIT SIGN
- FIRE SPRINKLER
- SPEAKER
- TWO WAY SPEAKER
- WIRELESS ACCESS POINTS
- MISC. MEP DEVICES
- HEAT DETECTOR
- SMOKE DETECTOR
- FIRE ALARM STROBE
- SECURITY STROBE
- FIRE ALARM CHIME STROBE WALL MOUNTED
- NOTIFICATION/CALL LIGHT
- ACCESS PANEL
- AIR TERMINALS (VARIOUS TYPES & SIZE)
- LIGHTING FIXTURES (VARIOUS TYPES & SIZE)

NEW WORK KEYNOTES:

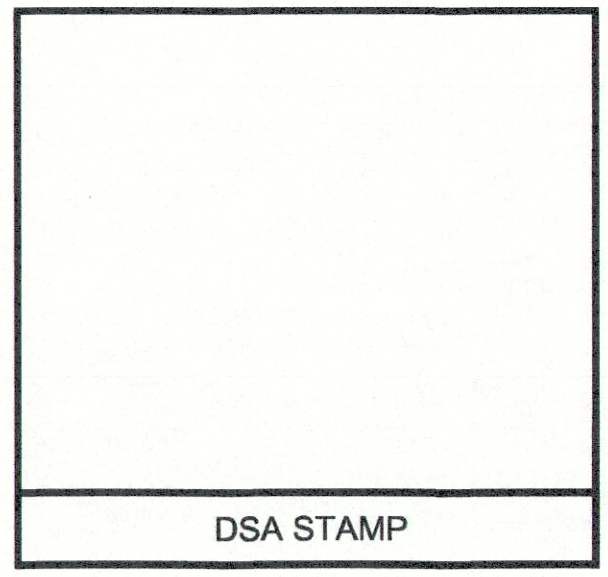
- (E) - EXISTING
(N) - NEW
- 1 CEILING MOUNTED LIGHT FIXTURE (N.I.C.) - (E) CONDUIT AND TERMINATION AT CEILING FINISH TO REMAIN FOR FUTURE LIGHT FIXTURE INSTALLATION. EXTEND CONDUIT WHEN THICKNESS OF CEILING FINISH CHANGED. (3/A3.3, 5/87/A3.3)
- 2 (E) FIRE SPRINKLER HEAD - LOWER F.S. HEAD WHEN THICKNESS OF CEILING FINISH CHANGED. REUSE (E) BRACKET TO ATTACH. PROVIDE THE MANUFACTURER'S APPROVED BRACKET WITH FURRING CHANNEL TO (E) CEILING FRAMING. (11/A3.3)
- 3 (E) AIR SUPPLY & RETURN GRILLE - REMOVE AND REINSTALL (6/8/A3.3)
- 4 (E) CEILING MOUNTED SMOKE DETECTOR. REINSTALL AFTER CONSTRUCTION IS FINISHED.
- 5 (E) CEILING MOUNTED HEAT DETECTOR. REINSTALL AFTER CONSTRUCTION IS FINISHED.
- 6 (E) CEILING MOUNTED FIRE ALARM WITH COVER
- 7 (E) CEILING MOUNTED ACCESS DOOR & SUPPORT FRAMING (9/A3.3)
- 8 NOT USED.
- 9 (E) RECESSED CEILING MOUNT SPEAKER. PROVIDE FIRE RATED HOUSING OR COVER.
- 10 (E) CEILING MOUNT EXIT SIGN - REMOVE AND REINSTALL. EXTEND CONDUIT WHEN THICKNESS OF CEILING FINISH CHANGED.
- 11 (E) CURTAIN TRACK - REMOVE AND REINSTALL AT (E) SUPPORT
- 12 (E) GRILLE FOR EXHAUST FAN. REINSTALL AT (E) SUPPORT.

NOTES:

1. PROVIDE FIRESTOP ASSEMBLY AT NEW AND EXISTING PENETRATIONS.
2. PAINT CEILING ACROSS ENTIRE ROOM OR TO NATURAL BREAK POINT.
3. REINSTALL (E) CEILING ACCESS PANELS TO ORIGINAL LOCATION AT EXISTING FRAME. PROVIDE (N) FRAMING AT THE CORRIDOR.
4. ALL CEILING AND WALL-MOUNTED FIXTURES AND CONDUIT 12" FROM THE CEILING IN THE WORK AREA SHALL BE REMOVED, PROTECTED, AND REINSTALLED.
5. WHEN DISCONNECTION OF FIRE PROTECTION SYSTEM AND UTILITY SERVICE IS REQUIRED, INFORM DATE AND PERIOD TO FACILITY MANAGER AND PROJECT ARCHITECT IN ADVANCE.
6. FIELD VERIFY ALL UTILITY AND FIRE PROTECTION SYSTEMS ARE WORKING PROPERLY BEFORE BEGINNING OF PROJECT. NOTIFY THE FACILITY MANAGER AND PROJECT ARCHITECT IF ANY SYSTEM DOES NOT FUNCTION.



S.N.F. BUILDING KEYPLAN



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 (916) 376-1677 (Fax)
 www.dgs.ca.gov

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 APR 19 2022
 OFFICE OF THE STATE FIRE MARSHAL
 APPROVED FOR ARCHITECT ONLY
 Reviewed by: [Signature]
 [Signature]



JCCA J.C. CHANG & ASSOCIATES, INC.
 ENGINEERS • ARCHITECTS • PLANNERS
 280 MAIN STREET, SUITE 208
 TORRANCE, CALIFORNIA 90501 PH: (310) 212-8844
 FAX: (310) 212-8572

JCCA #17038-1
 Issue: 16-S-1084-C-P1

No.	Date	Description
-	11/01/21	FINAL DRAWINGS V1
-	3/2/22	FINAL DRAWINGS V2

Project
DSH-METROPOLITAN SNF BLDG RE-ROOF LEAK DAMAGE REPAIR PROJECT
 11401 Bloomfield Ave.
 Norwalk, CA. 90650
 Los Angeles County
 DGS PROJECT # DGS00000142412C
 SFM FAC #19-19-43-0002

Supervisor	Designed	Drawn	Checked
MJK		V.L.	MJK

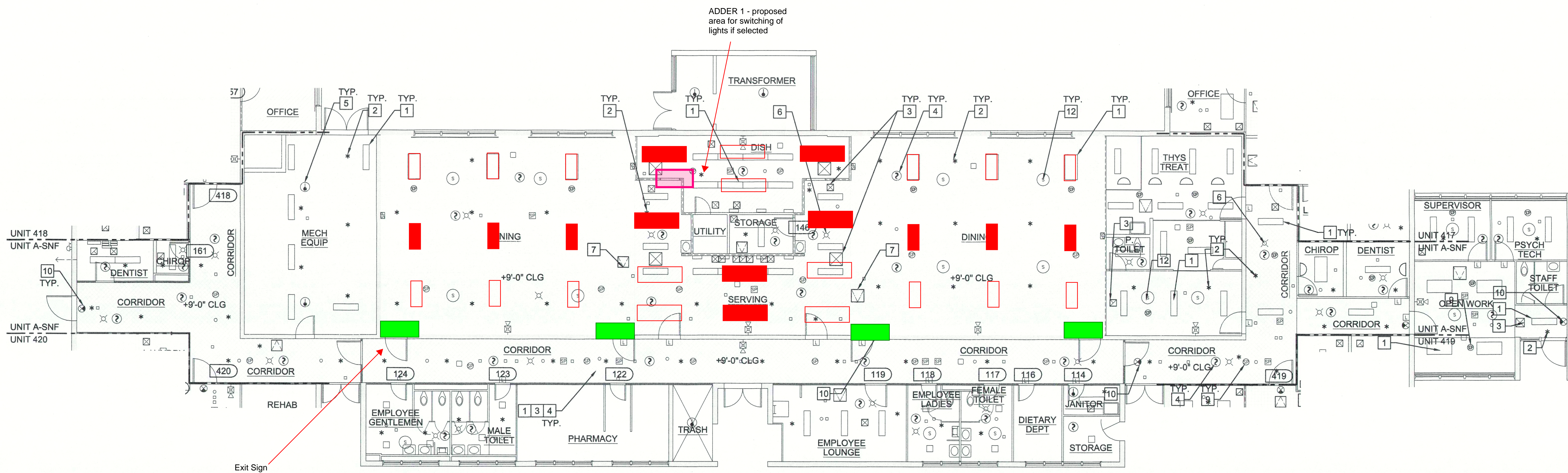
File Date: - Vault File Number: -

Sheet Title
UNIT 420 CEILING PLAN

DSA Building Number	Work Order
-	-

Reference North	Sheet Scale
	AS SHOWN
	Sheet Number
	A2.5

DATE/TIME: 29-Mar-2022 04:20PM
 FILE: P:\17038-1\Roof Leak Ceiling Repair - SNF - DSH-Metro-CAD\17038-1-A2.dwg

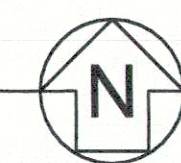


Exit Sign

ADDER 1 - proposed area for switching of lights if selected

UNIT A SNF - CEILING PLAN

SCALE: 0 4 8 FEET 16
1/8" = 1'-0"



CEILING LEGEND:

- CURTAIN TRACK ON CEILING
- ⊙ EXIT SIGN
- * FIRE SPRINKLER
- ⊙ SPEAKER
- ⊙ TWO WAY SPEAKER
- WIRELESS ACCESS POINTS
- MISC. MEP DEVICES
- ⊙ HEAT DETECTOR
- ⊙ SMOKE DETECTOR
- ⊙ FIRE ALARM STROBE
- ⊙ SECURITY STROBE
- ⊙ FIRE ALARM CHIME STROBE WALL MOUNTED
- NOTIFICATION/CALL LIGHT
- ACCESS PANEL
- ⊙ AIR TERMINALS (VARIOUS TYPES & SIZE)
- LIGHTING FIXTURES (VARIOUS TYPES & SIZE)

WALL LEGEND:

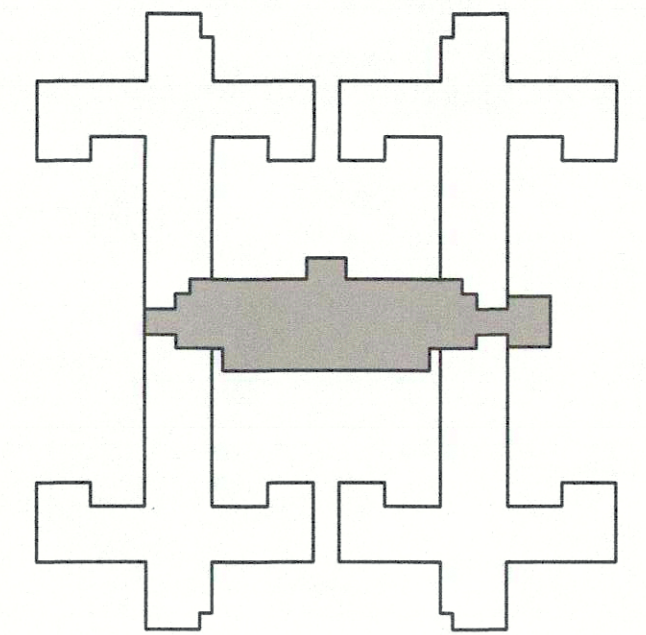
- ===== 8" CONCRETE WALL (5) (A3.1)
- ===== 2-1/2" SOLID PLASTER WALL (4A) (A3.1) (4B) (A3.1)
- ===== 4" PLASTER ON METAL STUD

NEW WORK KEYNOTES:

- (E) - EXISTING
- (N) - NEW
- 1 CEILING MOUNTED LIGHT FIXTURE (N.I.C.) - (E) CONDUIT AND TERMINATION AT CEILING FINISH TO REMAIN FOR FUTURE LIGHT FIXTURE INSTALLATION. EXTEND CONDUIT WHEN THICKNESS OF CEILING FINISH CHANGED. (3) (A3.3) (5&7) (A3.3)
- 2 (E) FIRE SPRINKLER HEAD - LOWER F.S. HEAD WHEN THICKNESS OF CEILING FINISH CHANGED. REUSE (E) BRACKET TO ATTACH. PROVIDE THE MANUFACTURER'S APPROVED BRACKET WITH FURRING CHANNEL TO (E) CEILING FRAMING. (1) (A3.3)
- 3 (E) AIR SUPPLY & RETURN GRILLE - REMOVE AND REINSTALL. (6&8) (A3.3)
- 4 (E) CEILING MOUNTED SMOKE DETECTOR. REINSTALL AFTER CONSTRUCTION IS FINISHED.
- 5 (E) CEILING MOUNTED HEAT DETECTOR. REINSTALL AFTER CONSTRUCTION IS FINISHED.
- 6 (E) CEILING MOUNTED FIRE ALARM WITH COVER
- 7 (E) CEILING MOUNTED ACCESS DOOR & SUPPORT FRAMING (9) (A3.3)
- 8 NOT USED.
- 9 (E) RECESSED CEILING MOUNT SPEAKER. PROVIDE FIRE RATED HOUSING OR COVER.
- 10 (E) CEILING MOUNT EXIT SIGN - REMOVE AND REINSTALL. EXTEND CONDUIT WHEN THICKNESS OF CEILING FINISH CHANGED.
- 11 (E) CURTAIN TRACK - REMOVE AND REINSTALL AT (E) SUPPORT
- 12 (E) GRILLE FOR EXHAUST FAN. REINSTALL AT (E) SUPPORT.

NOTES:

1. PROVIDE FIRESTOP ASSEMBLY AT NEW AND EXISTING PENETRATIONS.
2. PAINT CEILING ACROSS ENTIRE ROOM OR TO NATURAL BREAK POINT.
3. REINSTALL (E) CEILING ACCESS PANELS TO ORIGINAL LOCATION AT EXISTING FRAME. PROVIDE (N) FRAMING AT THE CORRIDOR.
4. ALL CEILING AND WALL-MOUNTED FIXTURES AND CONDUIT 12" FROM THE CEILING IN THE WORK AREA SHALL BE REMOVED, PROTECTED, AND REINSTALLED.
5. WHEN DISCONNECTION OF FIRE PROTECTION SYSTEM AND UTILITY SERVICE IS REQUIRED, INFORM DATE AND PERIOD TO FACILITY MANAGER AND PROJECT ARCHITECT IN ADVANCE.
6. FIELD VERIFY ALL UTILITY AND FIRE PROTECTION SYSTEMS ARE WORKING PROPERLY BEFORE BEGINNING OF PROJECT. NOTIFY THE FACILITY MANAGER AND PROJECT ARCHITECT IF ANY SYSTEM DOES NOT FUNCTION.



S.N.F. BUILDING KEYPLAN

DSA STAMP

State of California
Department of General Services
Real Estate Services Division
DGS
Project Management Branch
707 Third Street, Suite 3-305
Sacramento, California 95605
Project Director:
(916) 443-9948 (Phone)
(916) 376-1677 (Fax)
www.dgs.ca.gov

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APR 19 2022
OFFICE OF THE STATE FIRE MARSHAL
APPROVED FOR THE PROJECT ONLY
Reviewed by: [Signature] DSPM III



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ENGINEERS • ARCHITECTS • PLANNERS
180 VAN NESS AVENUE, SUITE 208 PH (910) 212-8844
TORRANCE, CALIFORNIA 90501 FAX (910) 212-6272

JCCA #17038-1

Issue: 18-S-1084-C-PI

No.	Date	Description
-	11/01/21	FINAL DRAWINGS V1
-	3/2/22	FINAL DRAWINGS V2

Project
**DSH-METROPOLITAN
SNF BLDG
RE-ROOF LEAK
DAMAGE REPAIR
PROJECT**

11401 Bloomfield Ave.
Norwalk, CA. 90650
Los Angeles County

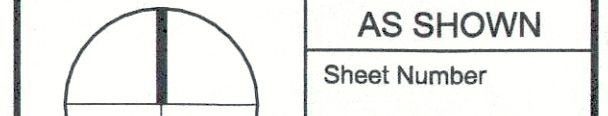
DGS PROJECT # DGS00000142412C
SFM FAC #19-19-43-0002

Supervisor	Designed	Drawn	Checked
MJK		V.L.	MJK

File Date: - Vault File Number: -
Sheet Title
**UNIT A SNF
CEILING PLAN**

DSA Building Number: - Work Order: -

Reference North: AS SHOWN
Sheet Scale: AS SHOWN
Sheet Number: A2.3



PHASE 1 CEILING REPAIR - 3/24/22

C:\PROJECTS\19-19-43-0002\18-S-1084-C-PI\18-S-1084-C-PI.dwg
DATE PLOTTED: 3/24/22 10:00 AM
SCALE: 1/8" = 1'-0"

REQUEST FOR INFORMATION

Site Name: DSH Metropolitan RFI Number: 021
Project Name: DSH - Metro SNF Building Repair Date: 9/5/2024
RFI Description: Plumbing Observations for Units 419 & 420 Project No.: 142412CE SNF BLDG REPAIR
Issued To: J.C. Chang & Associates, Inc. County Project No.: N/A
(Architect)
NA NA NA
Drawing Number Detail Specification Section Page

Please see attached Plumbing Observations for Units 419 & 420.
Please advise on how to proceed.

Request Issued by: *Alvaro Loya* Alvaro Loya September 5, 2024
Contractor's Signature *Name (Printed)* *Date*

Response:

DGS PDII/Thomas Brunet Response Date: 09/20/2024
1). See attached DGS Matrix for Units 419 & Unit 420
2). Please provide to DGS an Add Alternate Cost Proposal for the Marked "Y" Maintenance Items.

Response Review by: _____
Architect's Signature *Name (Printed)* *Date*

Response Issued by: _____
Owner Authorized Representative *Name (Printed)* *Date*

PAN PACIFIC MECHANICAL

RFI#021 UNIT 419 OBSERVATIONS		RFI #22 SINKS LIST Item #	RFI #22 Anti- Ligature Sinks	Maintenance Item	Comments
ROOM 112	SINK: Missing		Y		
	WC: New wax ring			Y	
	FD: Needs to be snaked drains slow			Y	
	SHOWER: low flow need new components or new valve			Y	
ROOM 113	W/C: New wax ring & new Flush Valve			Y	
	FD: Drains slow needs to be snaked			Y	
	SINK: Missing		Y		
ROOM 133	SINK: Missing		Y		
	waste line drains slow			Y	
	WC: New wax Ring, New Flush Valve and new angle stop			Y	
	FD: Drains slow needs to be snaked			Y	
ROOM 132	Sink: Needs new Faucet			Y	
ROOM 104	SINK: On floor in room does this go here?	17			Hot/Cold angle stops need replaced does not shut off all the way
ROOM 134	SINK: Need new P Trap and waste line snaked			Y	
	W/C: New wax Ring			Y	
HALLWAY	DRINKING FOUNTAIN: New one parts missing and does not work properly			Y	
ROOM 148	SINK: Missing	16			
	need new angle stops does not shut H/C water			Y	snake line drain slow
ROOM 121	SINK: Low flow, new P Trap			Y	
ROOM 124	FD: Needs to be snaked			Y	
	Sink: Missing		Y		
	W/C: New wax Ring			Y	
ROOM 125	SINK: Missing		Y		
	Hot/Cold capped need angle stops			Y	
ROOM 135	TUB: Installed HOT/ COLD capped , need new shower valve			Y	
ROOM 149	SINK: In room on floor does this go here?			Y	
	W/C: New Wax Ring & Flush Valve			Y	
ROOM 142	SINK: In room on floor does this go here?	15			
ROOM 143	W/C: New wax ring			Y	
	SINK: Needs 1-1/2" nipple for drain			Y	
ROOM 145 144	SINK: On floor in room does this go here?		Y		Snk belongs to Rm 144, being replaced by an anti-ligature sink per RFI # 022
	W/C: New Wax Ring			Y	
ROOM 147	FD: Needs to be snaked slow drain			Y	

URGENT

REQUEST FOR INFORMATION

Site Name: DSH Metropolitan RFI Number: 021.1
Project Name: DSH - Metro SNF Building Repair Date: 9/6/2024
RFI Description: Plumbing Observations for Units 418 Project No.: 142412CE SNF BLDG REPAIR
Issued To: J.C. Chang & Associates, Inc. County Project No.: N/A
(Architect)
NA NA NA
Drawing Number Detail Specification Section Page

Please see attached Plumbing Observations for Unit 418.
Please advise on how to proceed.

Request Issued by: *Alvaro Loya* Alvaro Loya September 6, 2024
Contractor's Signature *Name (Printed)* *Date*

Response:

DGS/PDII/Thomas Brunet Response Date: 09/20/2024
1). See attached DGS Matrix for Unit 418
2). Please provide to DGS an Add Alternate Cost Proposal for the Marked "Y" Maintenance Items.

Response Review by: _____
Architect's Signature *Name (Printed)* *Date*

Response Issued by: _____
Owner Authorized Representative *Name (Printed)* *Date*

PAN PACIFIC MECHANICAL

RFI#021.1 UNIT 418 OBSERVATIONS		RFI #22 SINKS LIST Item #	RFI #22 Anti- Ligature Sinks	Maintenance Item	Comments
ROOM 110	WC: For bed pans does not work			Y	
ROOM 112	SINK: Missing		Y		
	Drain needs to be snaked			Y	
	WC: New Wax Ring			Y	
ROOM 113	SINK: Missing		Y		
	Drain needs to be snaked			Y	
	FD: Needs to be snaked			Y	
	WC: New Wax Ring			Y	
HALLWAY	Drinking Fountain needs to be replaced			Y	OESH TO REVIEW
ROOM 133	SINK: Missing		Y		
	Drain needs to be snaked			Y	
	FD: Needs to be snaked			Y	
	SHOWER: Drain needs to be snaked			Y	
	WC: New Wax Ring , New Flush Valve , New Angle stop			Y	
ROOM 132	Janitor SINK: New Faucet and drain needs to be snaked			Y	
ROOM 134	SINK: Drain needs to be snaked			Y	
	WC: New Wax ring			Y	
ROOM 104	SINK: Missing	1			New Angle stops needed, Cast Iron Broken
	Drain needs to be snaked			Y	
ROOM 148	SINK: Missing	2			
	Drain needs to be snaked			Y	
ROOM 121	SINK: Drain needs to be snaked			Y	
ROOM 124	SINK: Missing		Y		
	WC: New Wax Ring			Y	
	SHOWER: Drain needs to be snaked			Y	
ROOM 125	SINK: Missing		Y		
	FD: Needs to be snaked			Y	
	WC: New Wax Ring			Y	
ROOM 149	SINK: Missing		Y		
	FD: Needs to be snaked			Y	
	WC: New Wax Ring			Y	
ROOM 135	TUB: New shower valve needed			Y	
ROOM 143	SINK: Missing	4			Angle stops need to be replaced
	Drain needs to be snaked			Y	
	WC: New Wax Ring, New Flush Valve			Y	
ROOM 144	SINK: Missing		Y		
	Need new nipple at wall			Y	
	WC: New Wax Ring			Y	
HALLWAY	HAND SINK: LOW FLOW , P Trap cleaned and drain line snaked			Y	
ROOM 147	Laundry Sink: Drain needs to be snaked			Y	
	Hose Bibbs: Need to be replaced			Y	

REQUEST FOR INFORMATION

Site Name: DSH Metropolitan RFI Number: 021.2
Project Name: DSH - Metro SNF Building Repair Date: 9/10/2024
RFI Description: Plumbing Observations for Units 417 & A Project No.: 142412CE SNF BLDG REPAIR
Issued To: J.C. Chang & Associates, Inc. County Project No.: N/A
(Architect)
NA NA NA
Drawing Number Detail Specification Section Page

Please see attached Plumbing Observations for Unit 417 & Unit A.
Please advise on how to proceed.

Request Issued by: *Alvaro Loya* Alvaro Loya September 10, 2024
Contractor's Signature *Name (Printed)* *Date*

Response:

DSG/PDII/Thomas Brunet Response Date: 09/20/2024
1). See attached DGS Matrix's for Unit 417 & Unit A
2). Please provide to DGS an Add Alternate Cost Proposal for the Marked "Y" Maintenance Items.

Response Review by: _____
Architect's Signature *Name (Printed)* *Date*

Response Issued by: _____
Owner Authorized Representative *Name (Printed)* *Date*

PAN PACIFIC MECHANICAL

RFI#021.2 UNIT 417 OBSERVATIONS		RFI #22 SINKS LIST Item #	RFI #22 Anti- Ligature Sinks	Maintenance Item	Comments
ROOM 121	SINK: Missing Hot water no flow replace angle stop, snake drain	14		Y	Staff Breakroom
ROOM 124	SINK: In room on floor is that correct sink? WC: New Wax Ring needed		Y	Y	
ROOM 125	SINK: Missing Hot water no flow replace angle stop, snake drain FD: Needs to be snaked WC: New Wax Ring needed		Y	Y Y Y	
ROOM 133	SINK: Missing Drain needs to be snaked FD: Needs to be snaked WC: New Wax Ring needed Shower: Drain needs to be snaked		Y	Y Y Y Y	
ROOM 135	TUB: Low flow			Y	
ROOM 134	SINK: Drain needs to be snaked WC: New Wax Ring needed			Y Y	
HALLWAY	DRINKING FOUNTAIN: Nerds replaced doesn't work			Y	
ROOM 104	SINK: Missing Need new angle stops, San T at wall broken needs replaced	12		Y	
ROOM 148	SINK: Missing Needs new angle stops , Drain needs to be snaked	13		Y	
ROOM 132	Janitor SINK: Snake drain 3 sinks sitting in this room do not know where they go			Y Y	
Outside RR	SINK: Does not work needs new faucet and angle stops WC: Need all new does not work or drain			Y Y	
ROOM 142	SINK: One on floor, angle stops broken need to be replaced	3			
ROOM 143	SINK: Snake the drain WC: New Wax Ring needed			Y Y	
ROOM 144	SINK: On floor is this correct one for room WC: New Wax Ring needed		Y	Y	
ROOM 147	Laundry Sink: Drain needs to be snaked Laundry Hook ups : Needs new hose bibbs 2			Y Y	
ROOM 113	SINK: Missing WC: New Wax Ring needed		Y	Y	
ROOM 112	SINK: Missing FD: Needs to be snaked WC: New wax ring and new flush valve		Y	Y Y	

PAN PACIFIC MECHANICAL

RFI#021.2 UNIT A OBSERVATIONS		RFI #22 SINKS LIST Item #	RFI #22 Anti- Ligature Sinks	Maintenance Item	Comments
ROOM 160	SINK Missing	18			
ROOM 117 RR	SINK: Left is good, right drain is slow need to clean P Trap and snake drain			Y	
	WC: Flush valve is loose in the wall			Y	
ROOM 114	Janitor Sink: Need new faucet			Y	
ROOM 118	WC: Toilet is broken needs replaced			Y	
Dining Kitchen Area	Hand Sink: Foot pedal good, drains slow need to snake			Y	
ROOM 123	RIGHT SINK: Water low flow replace angle stops, clean p trap and snake drain			Y	
	LEFT SINK: Water low flow replace angle stops, clean ptrap and snake sink			Y	
	WC: Both toilets do not work			Y	
	FD: Drains slow needs to be snaked			Y	
ROOM 124	LEFT SINK: Water low flow replace angle stops, clean ptrap and snake sink			Y	
	RIGHT SINK: Clean P trap and snake drain			Y	
	FD: Drains slow needs to be snaked			Y	
RM 122 Pharmacy	SINK: Drains slow need to clean P trap and snake			Y	
Dining / Serving RM	HAND SINK: Slow drain clean P Trap and snake			Y	
	HAND SPRAYER: need new hand sprayer			Y	
Dining / Serving RM	Ice Machine: Water works , floor sink is good, ice machine not on			Y	Need to test the machine when turned on

REQUEST FOR INFORMATION

Site Name: DSH Metropolitan RFI Number: 026
Project Name: DSH - Metro SNF Building Repair Date: 9/10/2024
RFI Description: Sewer System Jetting Project No.: 142412CE SNF BLDG REPAIR
Issued To: J.C. Chang & Associates, Inc. County Project No.: N/A
(Architect)
NA NA NA
Drawing Number Detail Specification Section Page

Please see attached Camerascope Markup and the link below for the recorded video per location. After camerascoping and investigating, Pan-Pacific Mechanical (plumber) recommends jetting the entire sewer system.
Please confirm this is acceptable.
Link for videos: <https://ppmechanical.egnyte.com/fl/pcykONiSWG>

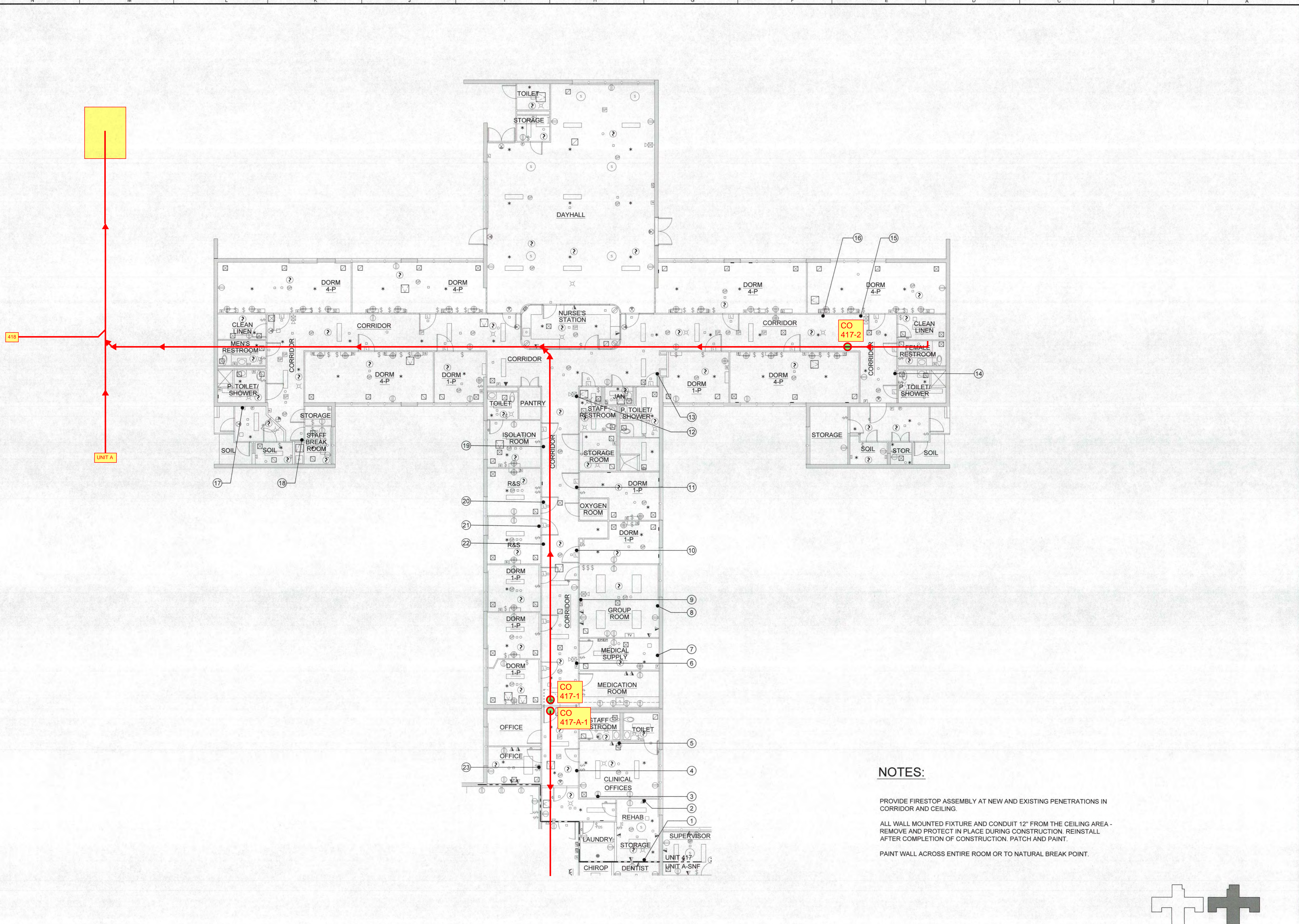
Request Issued by: *Alvaro Loya* Alvaro Loya September 10, 2024
Contractor's Signature *Name (Printed)* *Date*

Response:

Per DGS's request, please provide the cost for the recommended work under RFI #26.1.

Response Review by: _____ Ramy Eskander 09/12/24
Architect's Signature *Name (Printed)* *Date*

Response Issued by: _____
Owner Authorized Representative *Name (Printed)* *Date*



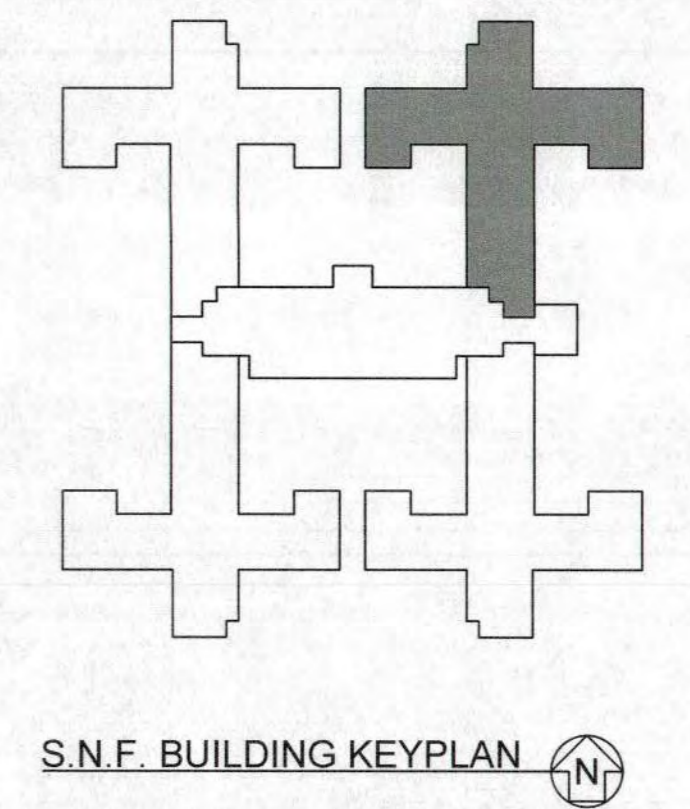
UNIT 417 - EXISTING CONDITIONS PHOTOGRAPH PLAN

SCALE: 0 4 8 FEET 16

1/8" = 1'-0"

NOTES:

- PROVIDE FIRESTOP ASSEMBLY AT NEW AND EXISTING PENETRATIONS IN CORRIDOR AND CEILING.
- ALL WALL MOUNTED FIXTURE AND CONDUIT 12" FROM THE CEILING AREA - REMOVE AND PROTECT IN PLACE DURING CONSTRUCTION. REINSTALL AFTER COMPLETION OF CONSTRUCTION. PATCH AND PAINT.
- PAINT WALL ACROSS ENTIRE ROOM OR TO NATURAL BREAK POINT.



DSA STAMP

State of California
Department of General Services
Real Estate Services Division

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JUN 13 2022

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FOR CONSTRUCTION ONLY
Reviewed by: Jason Craver - DGFU III



JCCA J.C. CHANG & ASSOCIATES, INC.
ENGINEERS • ARCHITECTS • PLANNERS
385 VAN NESS AVENUE, SUITE 208 PH (916) 212-7644
TORRANCE, CALIFORNIA 90503 FAX (916) 212-8272

JCCA #17038-1

Issue: 18-S-1084-C-PI

No.	Date	Description
-	11/01/21	FINAL DRAWINGS V1
PH1	3/2/22	FINAL DRAWINGS V2
PH2	5/12/22	FINAL DRAWINGS V1
R1	6/3/22	FINAL DRWGS - PH1 & 2

Project
DSH-METROPOLITAN SNF BLDG RE-ROOF LEAK DAMAGE REPAIR PROJECT

11401 Bloomfield Ave.
Norwalk, CA. 90650
Los Angeles County

DGS PROJECT # DGS00000142412C
SFM FAC #19-19-43-0002

Supervisor	Designed	Drawn	Checked
MJK		V.L.	MJK

File Date: _____ Vault File Number: _____

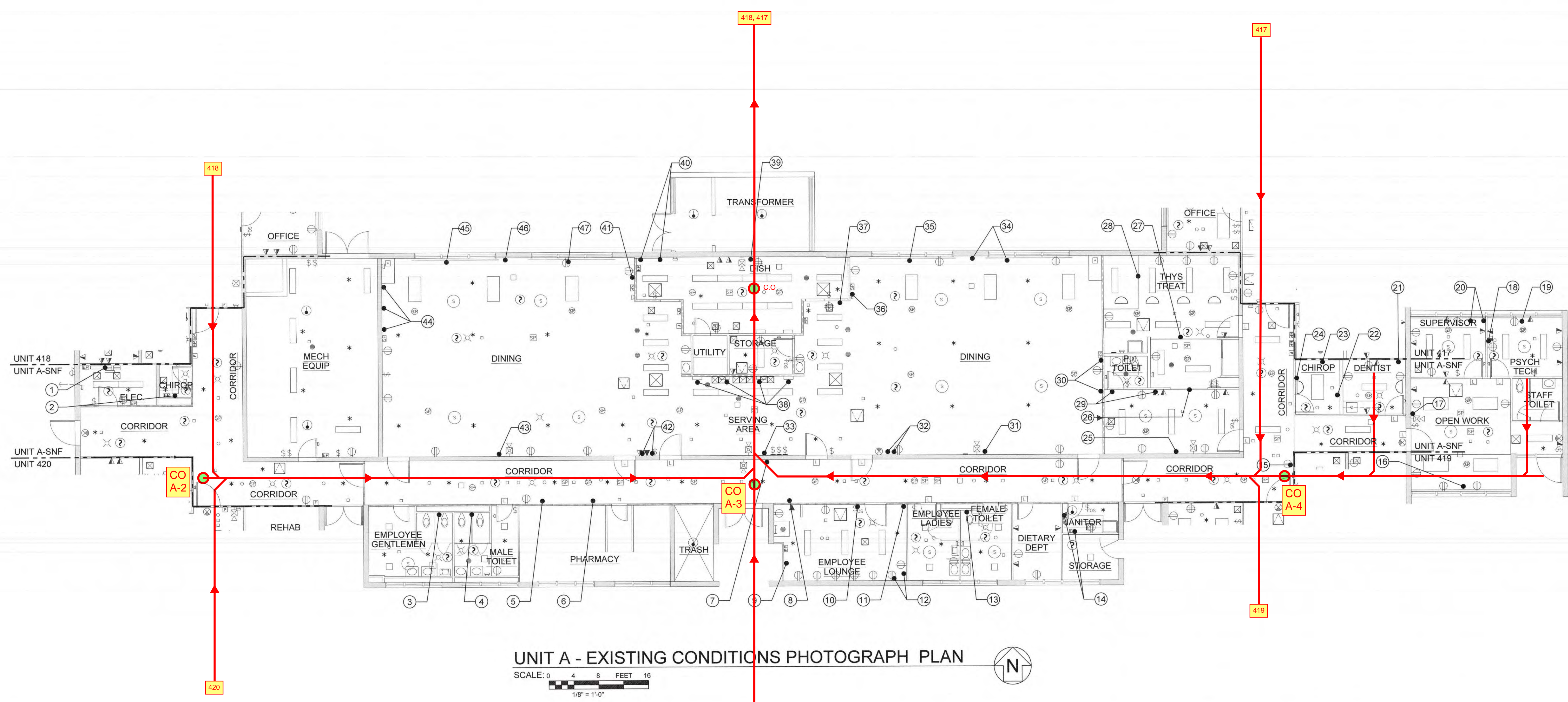
Sheet Title
UNIT 417 - EXISTING CONDITIONS PHOTOGRAPH PLAN

DSA Building Number	Work Order
-	-

Reference North

Sheet Scale
AS SHOWN
Sheet Number
A1.1

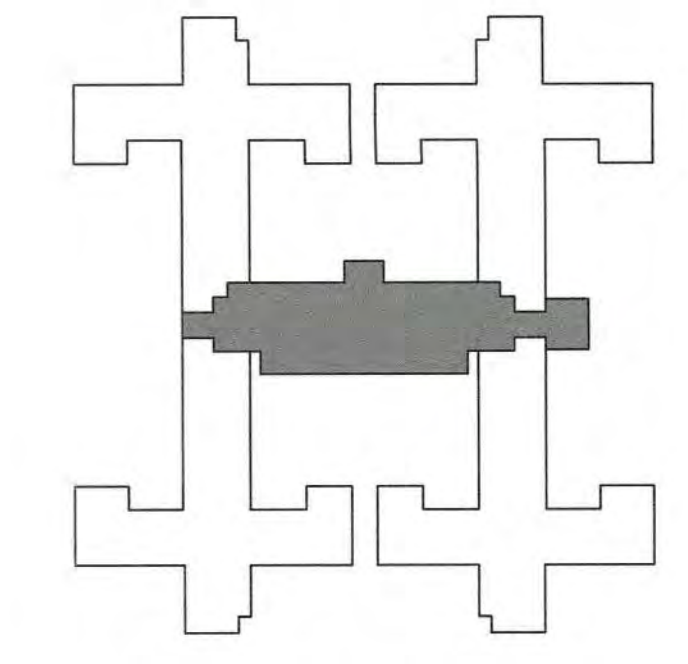
DATE/TIME: 03 Jun 2022 11:10AM
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User: JCC/JC Chang
Printer: SNF DSH-Metropolitan
Title: 10381-19-43-0002-01.dwg



UNIT A - EXISTING CONDITIONS PHOTOGRAPH PLAN
 SCALE: 0 4 8 FEET 16
 1/8" = 1'-0"

NOTES:

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S.N.F. BUILDING KEYPLAN

DSA STAMP

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JUN 13 2022
 OFFICE OF THE STATE FIRE MARSHAL
 APPROVED FIRE AND HAZARD ONLY
 Reviewed by: Jason Chavez, DSFM II



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 385 VAN NESS AVENUE, SUITE 208 PH (916) 212-7644
 TORRANCE, CALIFORNIA 90501 FAX (916) 212-0272

JCCA #17038-1

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	PH1	3/2/22	FINAL DRAWINGS V2
	PH2	5/12/22	FINAL DRAWINGS V1
	R1	6/3/22	FINAL DRWGS - PH1 & 2

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DSH-METROPOLITAN SNF BLDG RE-ROOF LEAK DAMAGE REPAIR PROJECT
 11401 Bloomfield Ave.
 Norwalk, CA. 90650
 Los Angeles County

DGS PROJECT # DGS00000142412C
 SFM FAC #19-19-43-0002

Supervisor	Designed	Drawn	Checked
MJK		V.L.	MJK

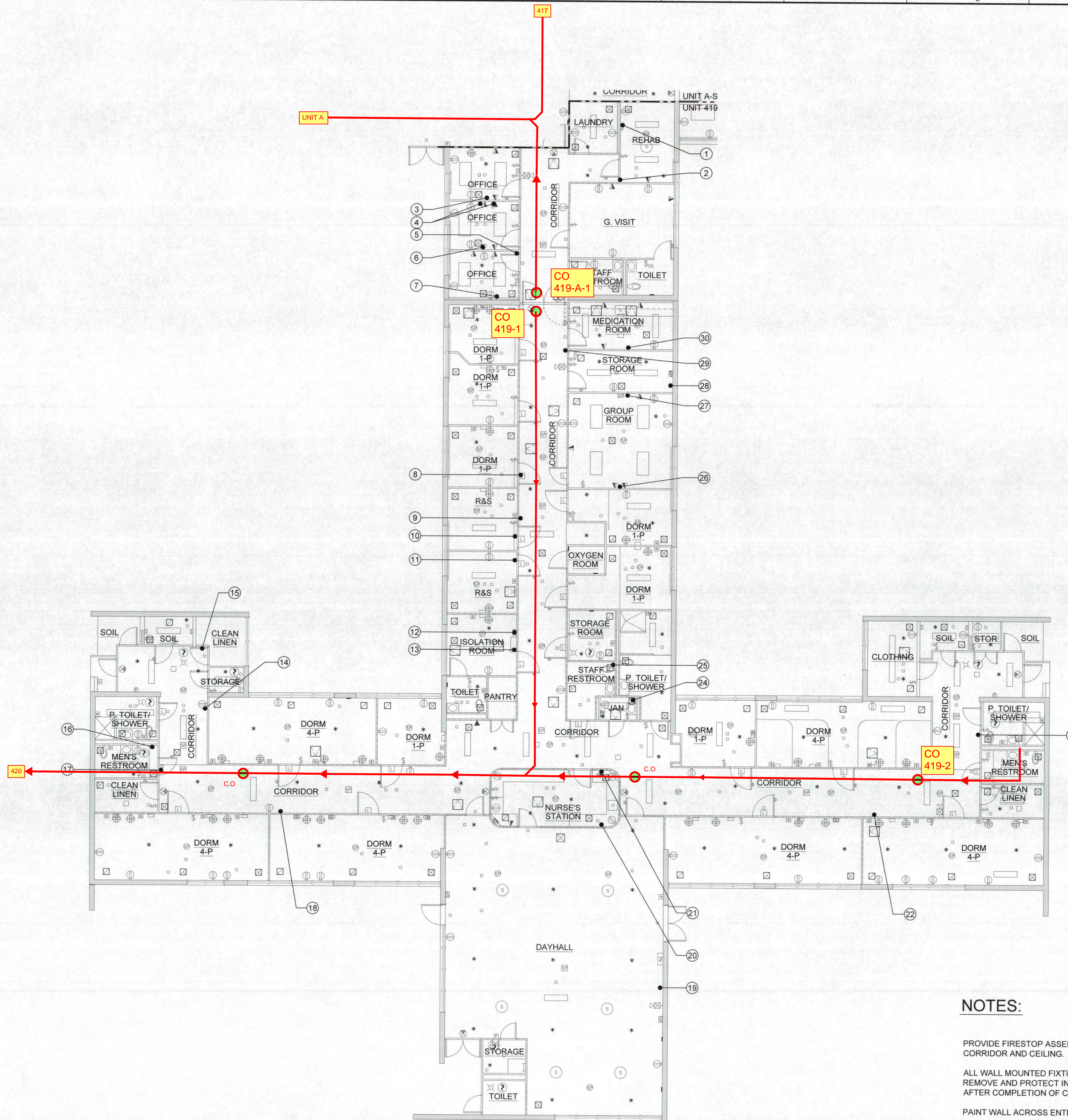
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Sheet Title
UNIT A SNF - EXISTING CONDITIONS PHOTOGRAPH PLAN

DSA Building Number: - Work Order: -

Reference North: - Sheet Scale: AS SHOWN

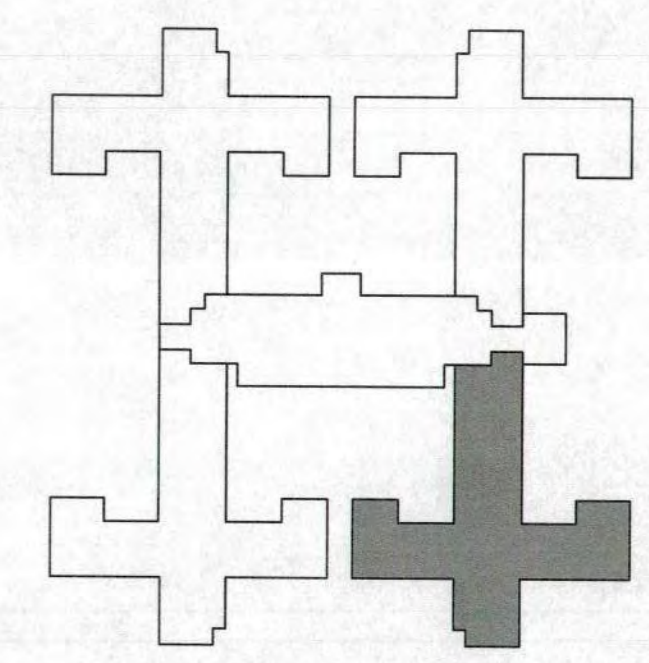
Sheet Number
A1.3



UNIT 419 - EXISTING CONDITIONS PHOTOGRAPH PLAN
 SCALE: 0 4 8 FEET 16
 1/8" = 1'-0"

NOTES:

- PROVIDE FIRESTOP ASSEMBLY AT NEW AND EXISTING PENETRATIONS IN CORRIDOR AND CEILING.
- ALL WALL MOUNTED FIXTURE AND CONDUIT 12" FROM THE CEILING AREA - REMOVE AND PROTECT IN PLACE DURING CONSTRUCTION. REINSTALL AFTER COMPLETION OF CONSTRUCTION. PATCH AND PAINT.
- PAINT WALL ACROSS ENTIRE ROOM OR TO NATURAL BREAK POINT.



S.N.F. BUILDING KEYPLAN

DSA STAMP

State of California
 Department of General Services
 Real Estate Services Division
DGS
Project Management Branch
 707 Third Street, Suite 3-305
 Sacramento, California 95605
 Project Director:
 (916) 443-9848 (Phone)
 (916) 376-1677 (Fax)
 www.dgs.ca.gov

Approval of this plan does not authorize or assume any change or deviation from applicable regulations. Final approval is subject to final inspection. One set of approved plans shall be preserved on the project site at all times.
 JUN 13 2022
 OFFICE OF THE STATE FIRE MARSHAL
 APPROVED FOR SIGNING ONLY
 Reviewed by: Jason Crane, DSPM III



JCCA ASSOCIATES, INC.
 ENGINEERS • ARCHITECTS • PLANNERS
 288 VAN NESS AVENUE, SUITE 209 PH (916) 212-7644
 TORRANCE, CALIFORNIA 90503 FAX (916) 212-6272

JCCA #17038-1

Issue: 18-S-1084-C-PI

No.	Date	Description
-	11/01/21	FINAL DRAWINGS V1
PH1	3/2/22	FINAL DRAWINGS V2
PH2	5/12/22	FINAL DRAWINGS V1
R1	6/3/22	FINAL DRWGS - PH1 & 2

Project
**DSH-METROPOLITAN
 SNF BLDG
 RE-ROOF LEAK
 DAMAGE REPAIR
 PROJECT**

11401 Bloomfield Ave.
 Norwalk, CA, 90650
 Los Angeles County

DGS PROJECT # DGS00000142412C
 SFM FAC #19-19-43-0002

Supervisor	Designed	Drawn	Checked
MJK		V.L.	MJK

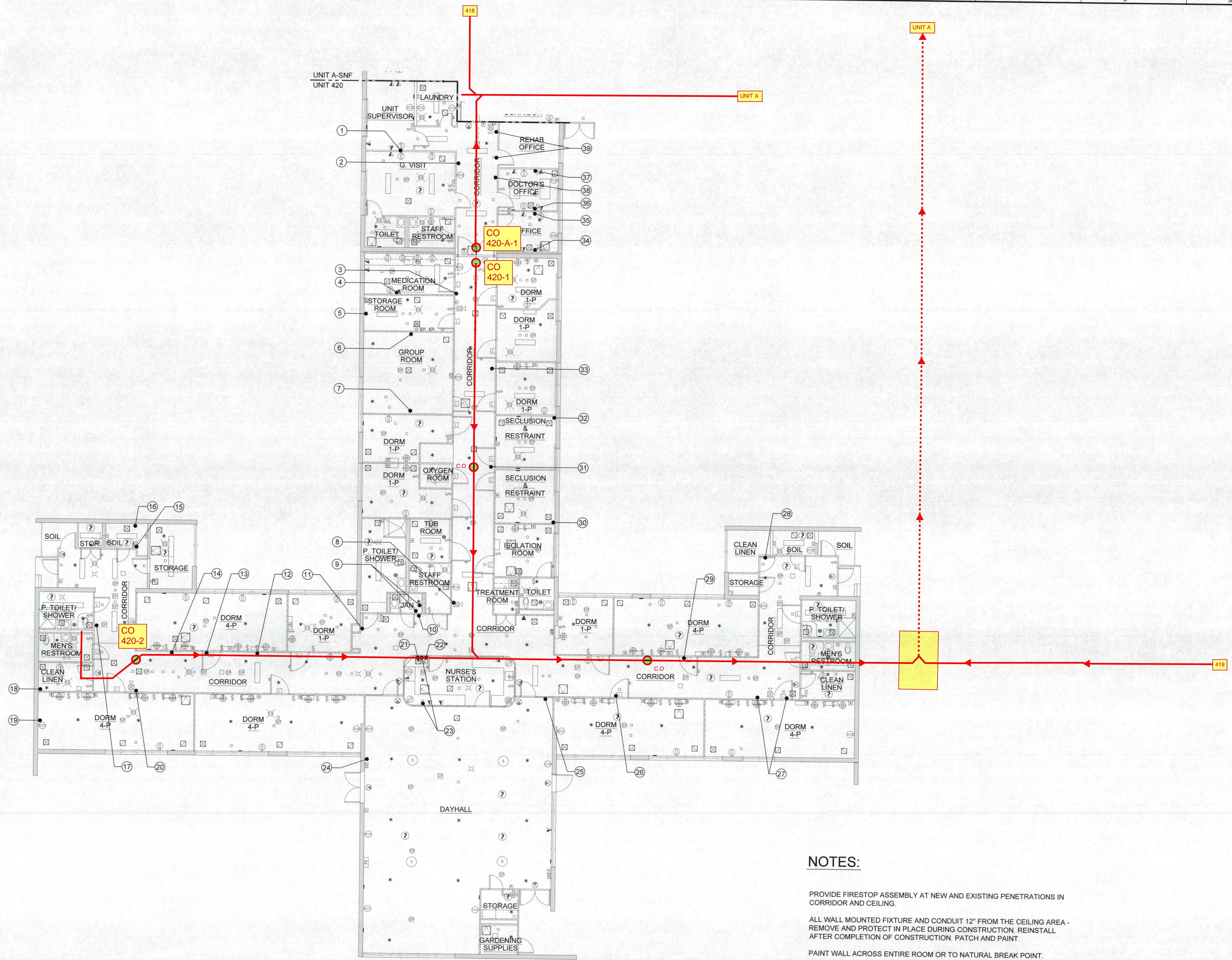
File Date: _____ Vault File Number: _____
 Sheet Title
**UNIT 419 - EXISTING
 CONDITIONS
 PHOTOGRAPH PLAN**

DSA Building Number: _____ Work Order: _____

Reference North: _____ Sheet Scale:
AS SHOWN

Sheet Number
A1.4

DATE/TIME: 09 Jun 2022 11:21 AM
 FILE: P:\17038-1\Floor Leak Ceiling Repair_SNF_DSH-MetroCAD\17038-1A1-4.dwg



UNIT 420 - EXISTING CONDITIONS PHOTOGRAPH PLAN

SCALE: 0 4 8 FEET 16

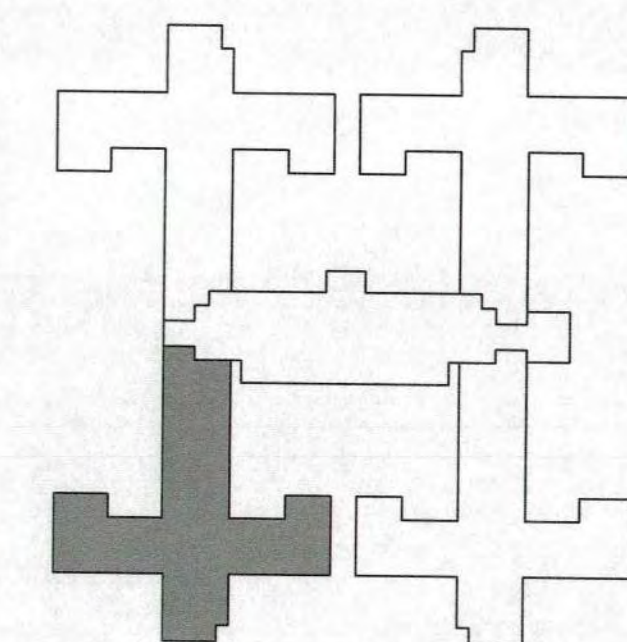
1/8" = 1'-0"

NOTES:

PROVIDE FIRESTOP ASSEMBLY AT NEW AND EXISTING PENETRATIONS IN CORRIDOR AND CEILING.

ALL WALL MOUNTED FIXTURE AND CONDUIT 12" FROM THE CEILING AREA - REMOVE AND PROTECT IN PLACE DURING CONSTRUCTION. REINSTALL AFTER COMPLETION OF CONSTRUCTION. PATCH AND PAINT.

PAINT WALL ACROSS ENTIRE ROOM OR TO NATURAL BREAK POINT.



DSA STAMP

State of California
Department of General Services
Real Estate Services Division

Project Management Branch
707 Third Street, Suite 3-305
Sacramento, California 95605
Project Director:
(916) 443-9848 (Phone)
(916) 376-1677 (Fax)
www.dgs.ca.gov

Approval of this plan does not authorize or approve any addition or revision from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

JUN 13 2022

OFFICE OF THE STATE FIRE MARSHAL
APPROVED FOR DRAWING ONLY
Reviewed by: [Signature]

JCCA J.C. CHANG & ASSOCIATES, INC.
ENGINEERS • ARCHITECTS • PLANNERS
300 VAN NESS AVENUE, SUITE 200 TORRANCE, CALIFORNIA 90501 PH (310) 212-1844 FAX (310) 212-6272

JCCA #17038-1

Issue: 18-S-1084-C-P1

No.	Date	Description
-	11/01/21	FINAL DRAWINGS V1
PH1	3/2/22	FINAL DRAWINGS V2
PH2	5/12/22	FINAL DRAWINGS V1
R1	6/3/22	FINAL DRWGS - PH1 & 2

Project
DSH-METROPOLITAN SNF BLDG RE-ROOF LEAK DAMAGE REPAIR PROJECT

11401 Bloomfield Ave.
Norwalk, CA. 90650
Los Angeles County

DGS PROJECT # DGS00000142412C
SFM FAC #19-19-43-0002

Supervisor	Designed	Drawn	Checked
MJK	V.L.	MJK	

File Date: Vault File Number

Sheet Title
UNIT 420 - EXISTING CONDITIONS PHOTOGRAPH PLAN

DSA Building Number: Work Order:

Reference North: Sheet Scale:

AS SHOWN

Sheet Number

A1.5

REQUEST FOR INFORMATION

Site Name: DSH Metropolitan RFI Number: 028
Project Name: DSH - Metro SNF Building Repair Date: 9/13/2024
RFI Description: Negative Air Pressure Machine Project No.: 142412CE SNF BLDG REPAIR
Issued To: J.C. Chang & Associates, Inc. County Project No.: N/A
(Architect)
NA NA NA
Drawing Number Detail Specification Section Page

Per meeting between Amoroso, DGS, DSH, and Architect held on Sept. 13th regarding the Negative Air Pressure located in the Isolation rooms in Unit 417, 418, 419, and 420, Amoroso is to do the following:
•Demo Negative Air Pressure machine
•Demo associated duct work from the machine to where it exhausts (exterior wall)
•Sack and patch exterior wall
•Uncap existing return air
•Demo electrical back to existing j-box & safe-off
•Repair or replace missing frame
•Patch behind Negative Air Pressure machine depending on existing wall condition

Please confirm.

Request Issued by: *Alvaro Loya* Alvaro Loya September 13, 2024
Contractor's Signature *Name (Printed)* *Date*

Response:

Confirmed. JCCA and DSH take no exceptions to the proposed work as outlined in the RFI submission.

Response Review by: _____ Ramy Eskander 09/25/24
Architect's Signature *Name (Printed)* *Date*

Response Issued by: _____ _____
Owner Authorized Representative *Name (Printed)* *Date*

REQUEST FOR INFORMATION

Site Name: DSH Metropolitan RFI Number: 030
Project Name: DSH - Metro SNF Building Repair Date: 9/18/2024
RFI Description: Use of Remote Volume Dampers Project No.: 142412CE SNF BLDG REPAIR
Issued To: J.C. Chang & Associates, Inc. County Project No.: N/A
(Architect)
NA NA NA
Drawing Number Detail Specification Section Page

The response to RFI #017 indicated to provide security diffusers throughout the building and provided recommendation for Greenheck Model SG-SG5500AL minimum security diffuser. There are existing round ceiling grilles in Activity Rooms 101 and Storage Rooms 146 in Units 417, 418, 419, and 420 that will be changed per RFI #017 to minimum security diffusers similar to the recommended Greenheck Model SG-SG5500AL minimum security diffuser.

The volume dampers in these existing round grilles are non-operable and will not be adjustable during air balancing of the building.

Please advise if it will be acceptable to replace the existing non-operable volume dampers in these existing round grilles which are non-operable with MAT remote damper regulators per attached product data submittal.

Request Issued by: *Alvaro Loya* Alvaro Loya September 18, 2024
Contractor's Signature *Name (Printed)* *Date*

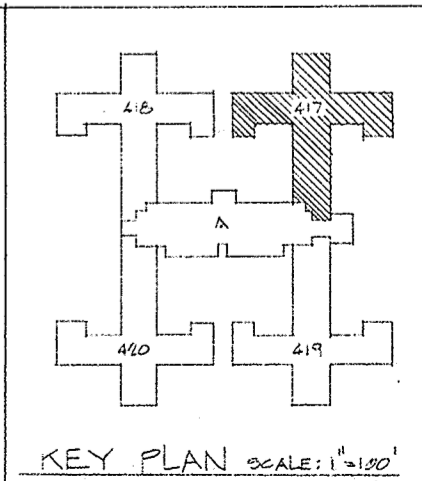
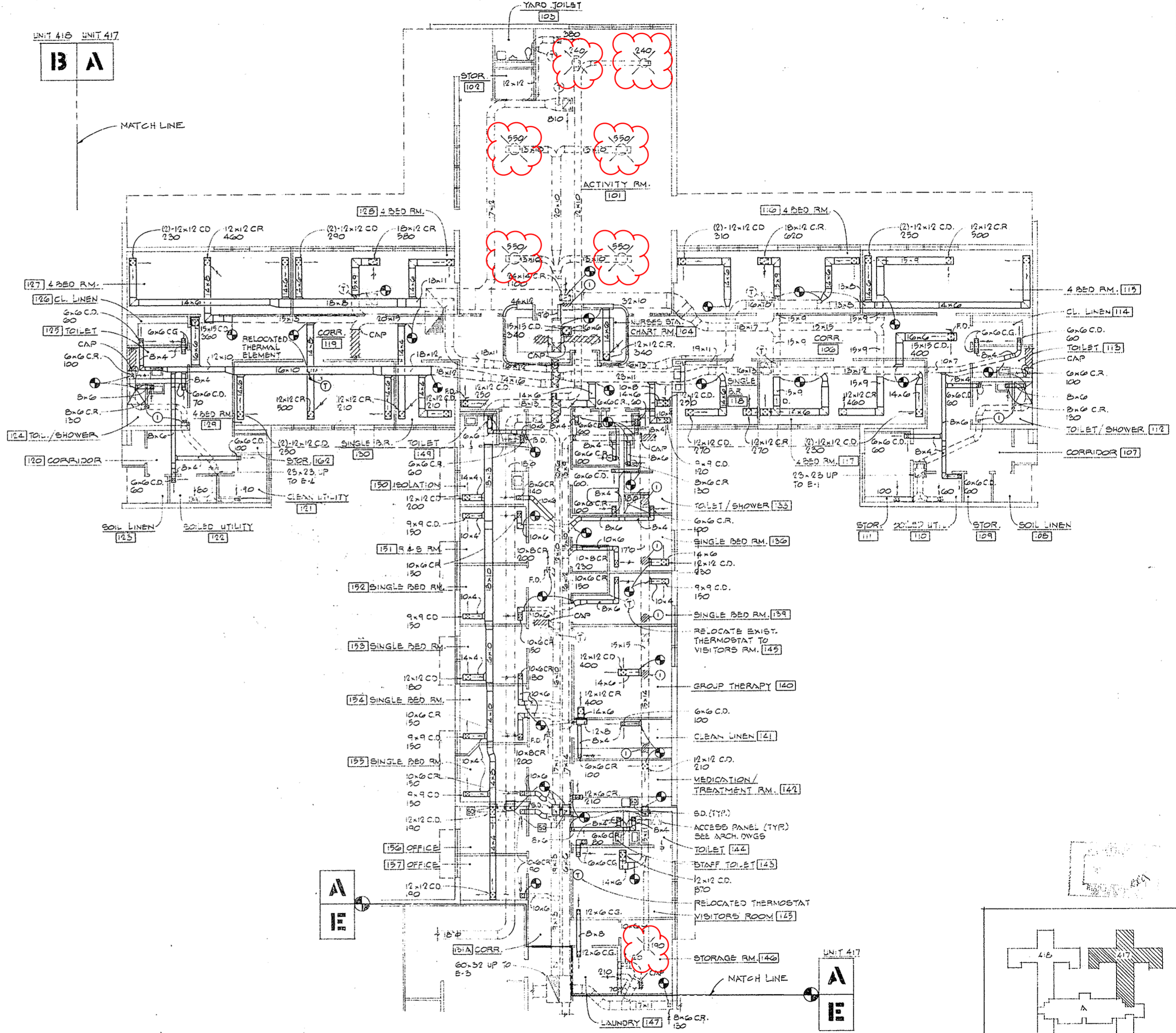
Response:

The proposed product is acceptable. Contractor shall field coordinate with the owner for the preferred locations of wall plates.

Response Review by: Yu Xie Yu Xie 09/23/24
Architect's Signature *Name (Printed)* *Date*

Response Issued by: Owner Authorized Representative *Name (Printed)* *Date*

NOTE:
 1. REMOVE EXISTING DIFFUSER OR REGISTER AND CAP AIR OUTLET.



HILLMAN & LOEBER
 ARCHITECTS
 5280 WILSHIRE BLVD., SUITE 1508
 LOS ANGELES, CALIFORNIA 90048
 (310) 458-8811

APPROVED
 FOR OWNER
 FOR ARCHITECT

STATE ARCHITECT
HARRY L. WASSERMAN
 PROJECT ARCHITECT / PROJECT ENGINEER
Cell 2/12

Office of the State Architect

STATE OF CALIFORNIA
 DEPARTMENT OF GENERAL SERVICES

HOWARD R. LANE, AIA
 ASSOCIATES ARCHITECTS
 16433 VENTURA BOULEVARD, ENCINO, CALIFORNIA • 213 / 788-4560

DEPARTMENT OF MENTAL HEALTH
 FIRE & LIFE SAFETY & ENVIRONMENTAL IMPROVEMENTS
 METROPOLITAN STATE HOSPITAL
 VAN NUYS, CALIFORNIA
 PROJECT WORK ORDER HMT 30108/301

REVISION

NO. DATE

REVISION

NO. DATE

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

DRAWN: RW
 CHECKED: RW

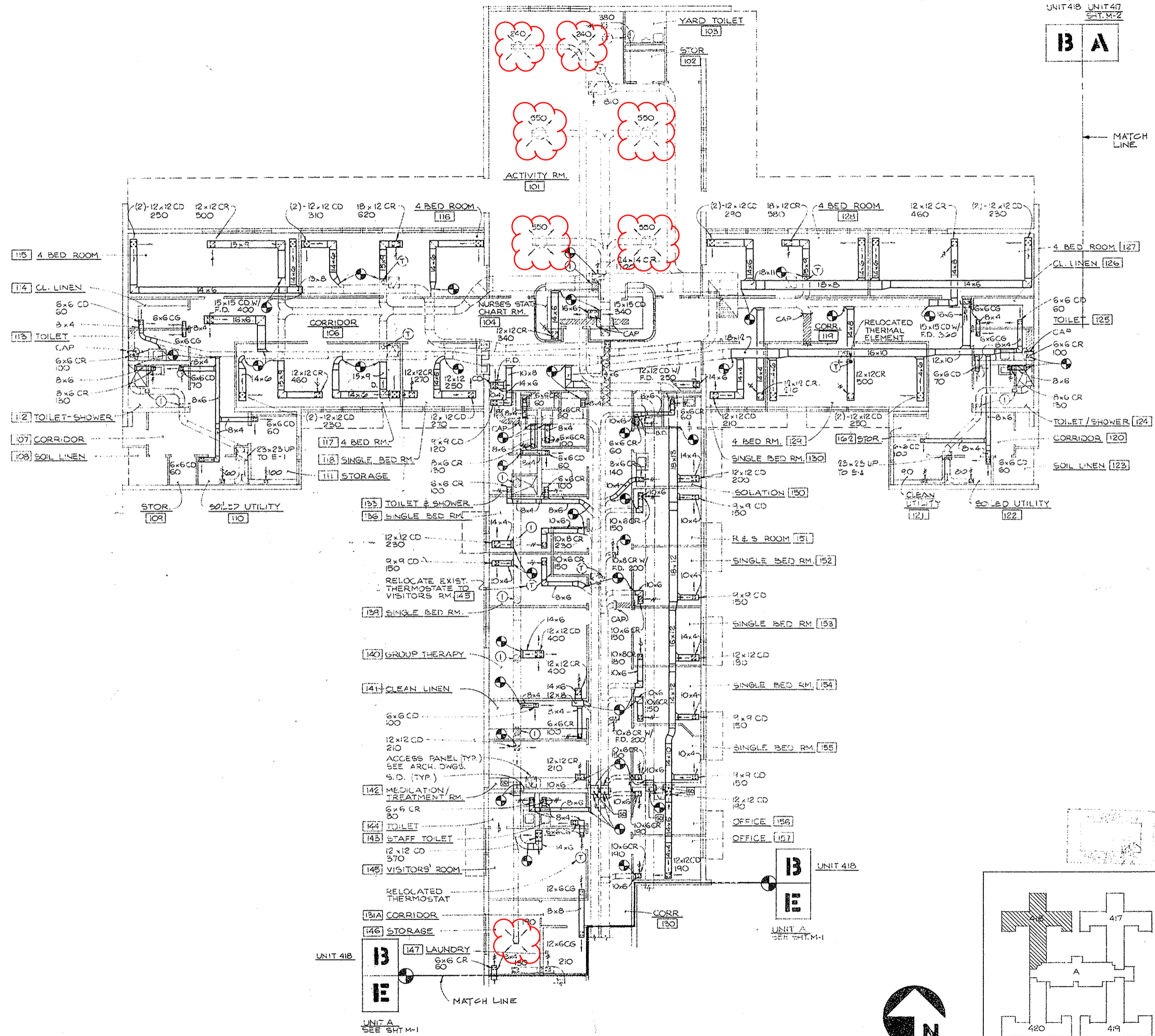
JOB NO: 7801.01
 DATE: 5-77

SHEET NO. **M-2**
 OF 5 SHEETS

12-C-32

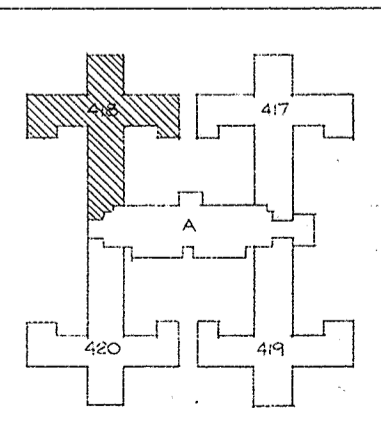
NOTES:

- ① REMOVE EXISTING DIFFUSER OR REGISTER AND CAP AIR OUTLET.
- ② REFER TO SHT. M-2 FOR EXISTING DUCT SIZES.



UNIT 418 UNIT 417
SHT. M-2
B A

MATCH LINE



KEY PLAN SCALE: 1"=100'

H L
STELLMAN & LOEBIG
REGISTERED ARCHITECTS
6330 WILSHIRE BLVD., SUITE 1506
LOS ANGELES, CALIFORNIA 90048
310 651-8811

NO.	DATE	REVISION

APPROVED
FOR OWNER
FOR ARCHITECT

STATE ARCHITECT
PROJECT ARCHITECT / PROJECT ENGINEER
Carl Fink



STATE OF CALIFORNIA
DEPARTMENT OF GENERAL SERVICES



**HOWARD R. LANE, AIA
ASSOCIATES ARCHITECTS**
16433 VENTURA BOULEVARD, ENCINO, CALIFORNIA • 213 / 781-4560

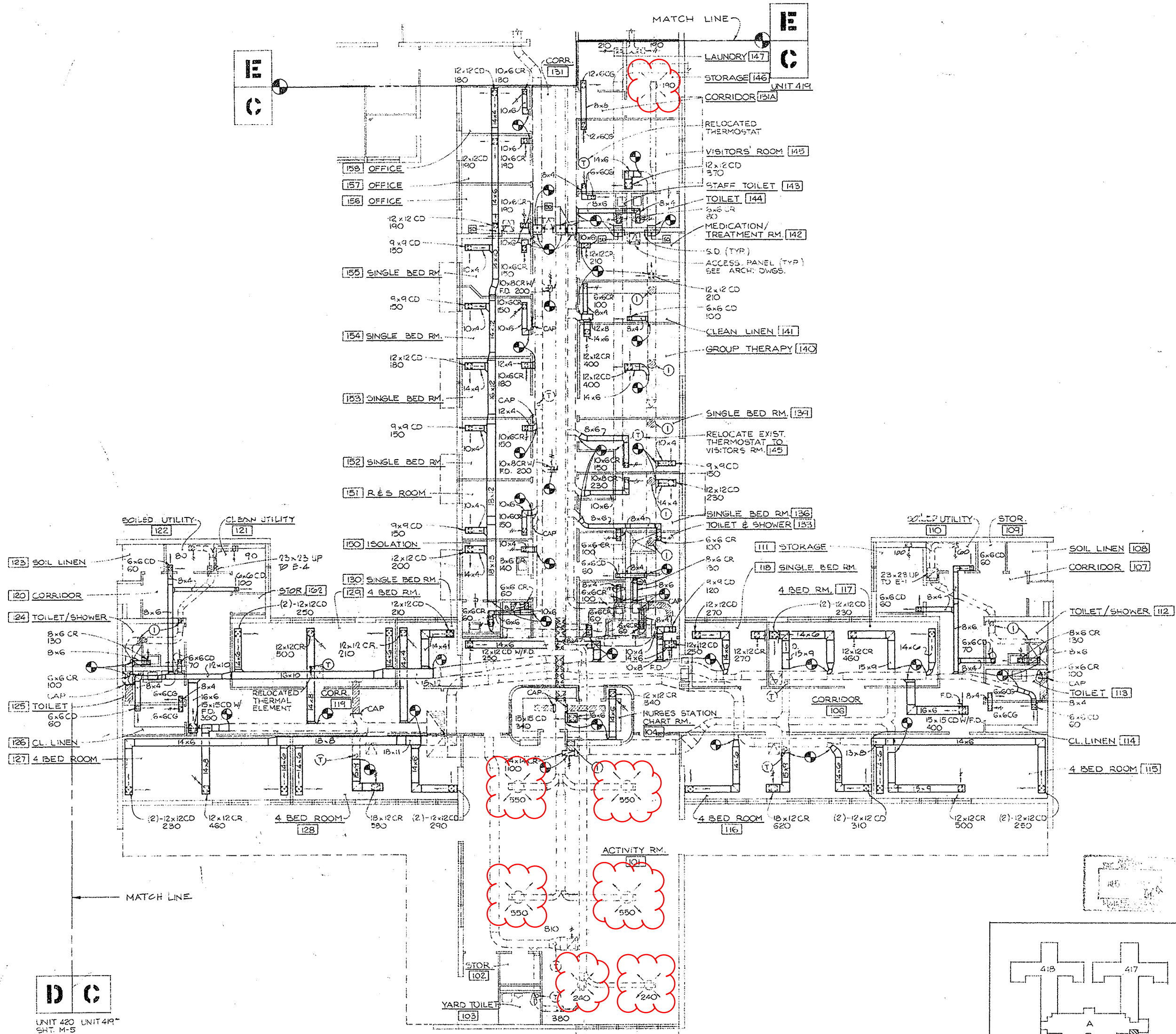
DEPARTMENT OF MENTAL HEALTH
FIRE & LIFE SAFETY & ENVIRONMENTAL IMPROVEMENTS
METROPOLITAN STATE HOSPITAL
NORWALK, CALIFORNIA
PROJECT WORK ORDER HMT 30123/301

SEGMENT B - UNIT 418
FLOOR PLAN
SCALE: 1/8"=1'-0"
DRAWN: G.R.
CHECKED: R.W.
DATE: 8-3-79

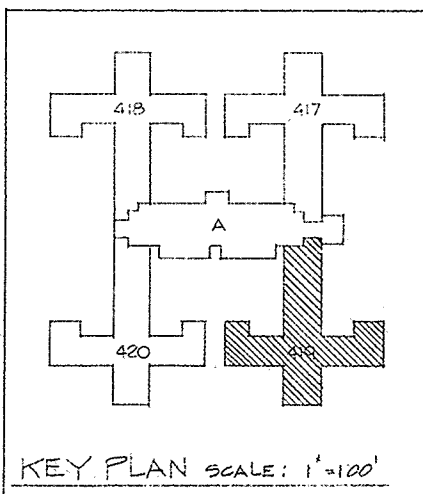
SHEET NO.
M-3
OF 5 SHEETS

NOTES:

- ① REMOVE EXISTING DIFFUSER OR REGISTER AND CAP AIR OUTLET
- ② REFER TO SHT. M-2 FOR EXISTING DUCT SIZES.



DC
UNIT 420 UNIT 419
SHT. M-5



KEY PLAN SCALE: 1" = 120'

H L
HELLMAN & LOEBER
CONSULTING ARCHITECTS
6340 WILSHIRE BLVD., SUITE 1306
LOS ANGELES, CALIFORNIA 90048
310 454-3811

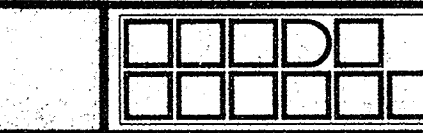
NO.	DATE	REVISION

APPROVED
FOR OWNER
FOR ARCHITECT

STATE ARCHITECT
HARRY L. WAGSTROM
PROJECT ARCHITECT / PROJECT ENGINEER
Carl F. ...



STATE OF CALIFORNIA
DEPARTMENT OF GENERAL SERVICES



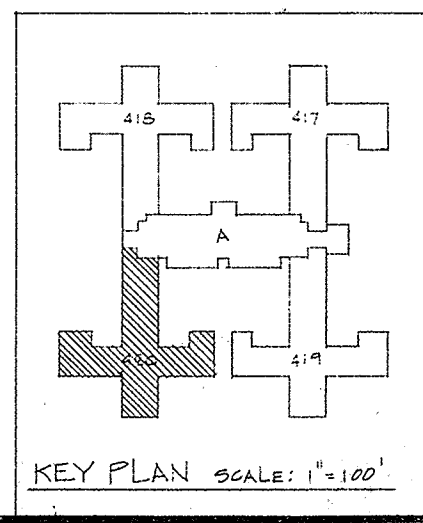
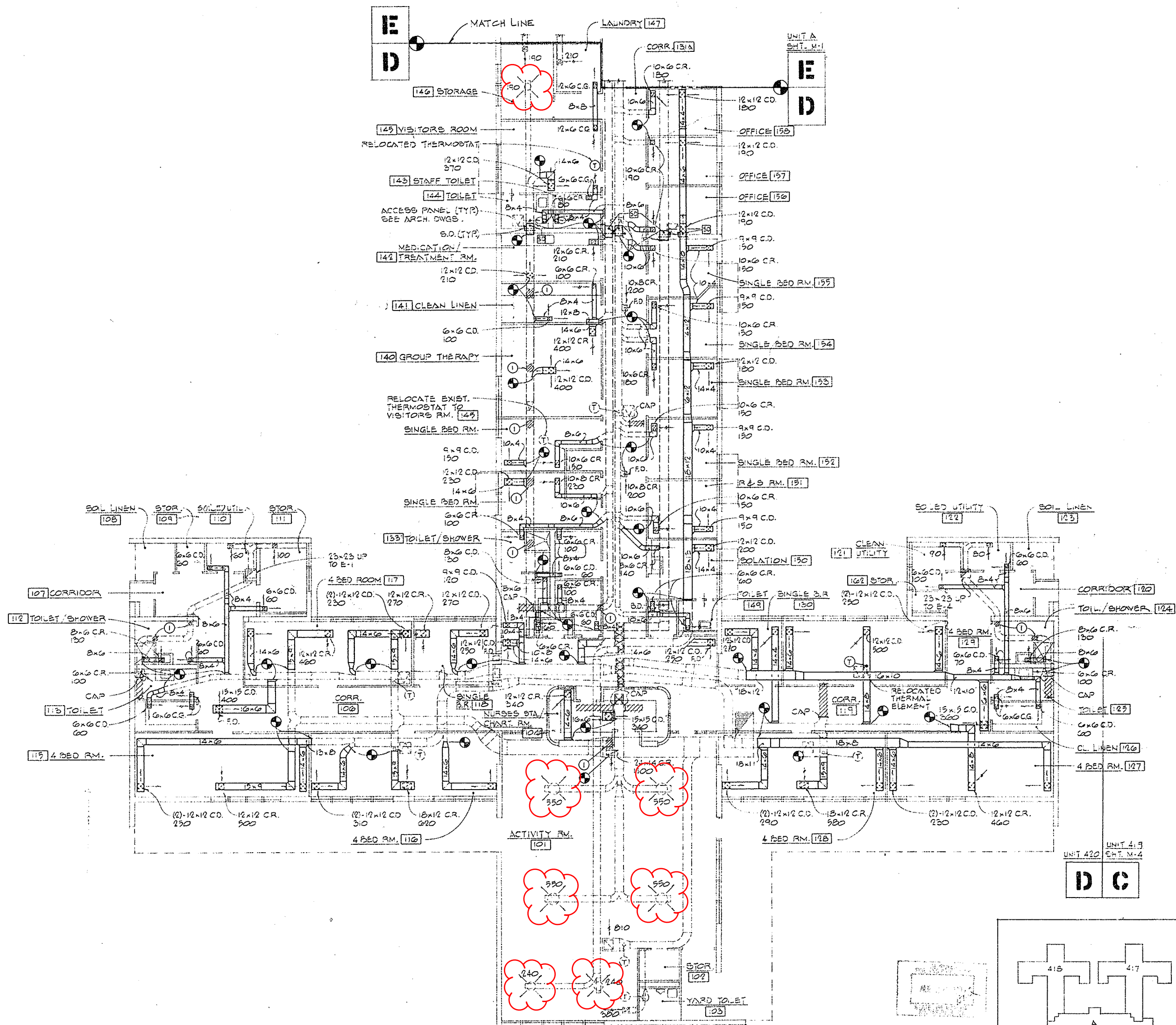
HOWARD R. LANE, AIA ASSOCIATES ARCHITECTS
16433 VENTURA BOULEVARD, ENCINO, CALIFORNIA • 313 / 788-4560

DEPARTMENT OF MENTAL HEALTH
FIRE & LIFE SAFETY & ENVIRONMENTAL IMPROVEMENTS
METROPOLITAN STATE HOSPITAL
ROYAL, CALIFORNIA
PROJECT WORK ORDER HHT 30103/901

SEGMENT - UNIT 419 FLOOR PLAN	SHEET NO. M-4 OF 3 SHEETS
SCALE: 1/8" = 1'-0"	DATE: 2-2-77
DRAWN: G.R.	CHECKED: R.W.

NOTES:

1. REMOVE EXISTING DIFFUSER OR REGISTER AND CAP AIR OUTLET.
2. REFER TO SHT. M-2 FOR EXISTING DUCT SIZES.



H
Frederick & Lober
 ARCHITECTS
 430 WILSHIRE BLVD., SUITE 1500
 LOS ANGELES, CALIFORNIA 90015
 (213) 259-8811

NO.	DATE	REVISION

APPROVED
 FOR OWNER
 STATE ARCHITECT
BARRY L. WASSERMAN
 PROJECT ARCHITECT / PROJECT ENGINEER
 FOR ARCHITECT
Ed Paul



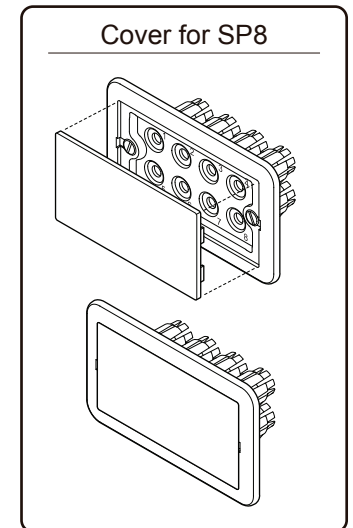
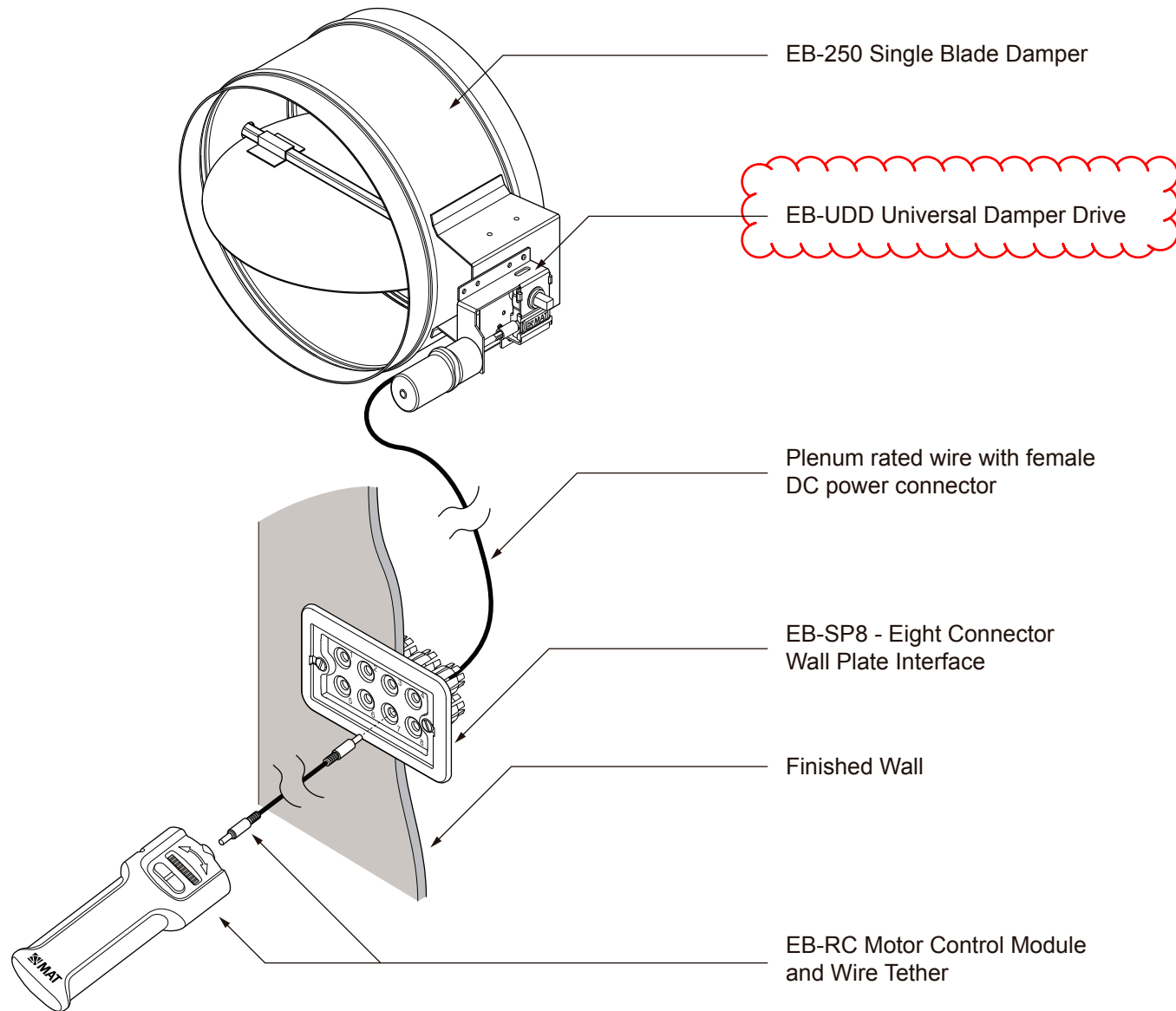
STATE OF CALIFORNIA
 DEPARTMENT OF GENERAL SERVICES

HOWARD R. LANE, AIA
ASSOCIATES ARCHITECTS
 16633 VENTURA BOULEVARD, ENCINO, CALIFORNIA • 213 / 788-4560

DEPARTMENT OF MENTAL HEALTH
 FIRE & LIFE SAFETY & ENVIRONMENTAL IMPROVEMENTS
 METROPOLITAN STATE HOSPITAL
 Norwalk, California
 PROJECT WORK ORDER HHT 30103 807

REG. NO. 4130
 FLOOR PLAN
 SHEET NO.
M-5
 SCALE: 1/8" = 1'-0"
 DRAWN R.V.
 CHECKED P.A.V.
 DATE 8-2-71
 SEP 1970

EB - 250 Damper Drive System - With EB-SP8 Eight Connector Interface



The leader in air flow control technology

The Electro-Balance™ EB-250 Round Damper System Submittal

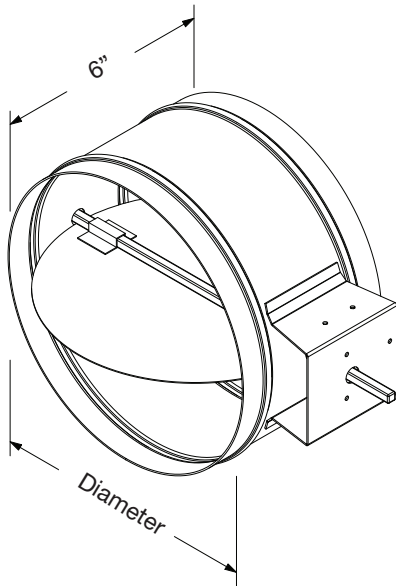
Project:

Date:

Architect:

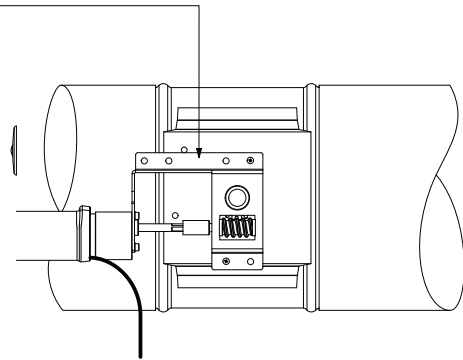
Engineer:

Contractor:



Battery powered universal damper drive (EB-UDD). Factory mounted to damper.

EB-250 Round Damper

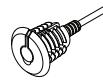


Plenum rated wiring with DC power connector:
8', 15', 25', 50', 75' (longer custom lengths available)
Connector Termination Options - shown below

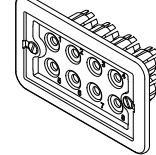
Standard Damper Construction (over 12" high)

- 20 ga. Galvanized steel with rolled bead stiffeners
- Reinforced blade, self lubricating bearings
- Standoff bracket for mounting EB-UDD Damper Drive
- 3/8" square (flat/flat) axle assures non slip connection
- Operating temperature = -40° - 200° F.
- Max velocity = 1500 FPM
- Furnished 1/8" undersized for male slip-in

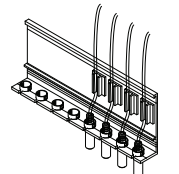
EB-SP1 Single Connector Wall Plate



EB-SP8 Eight Connector Wall Plate



EB-AB8 Surface Mount Wall Bracket



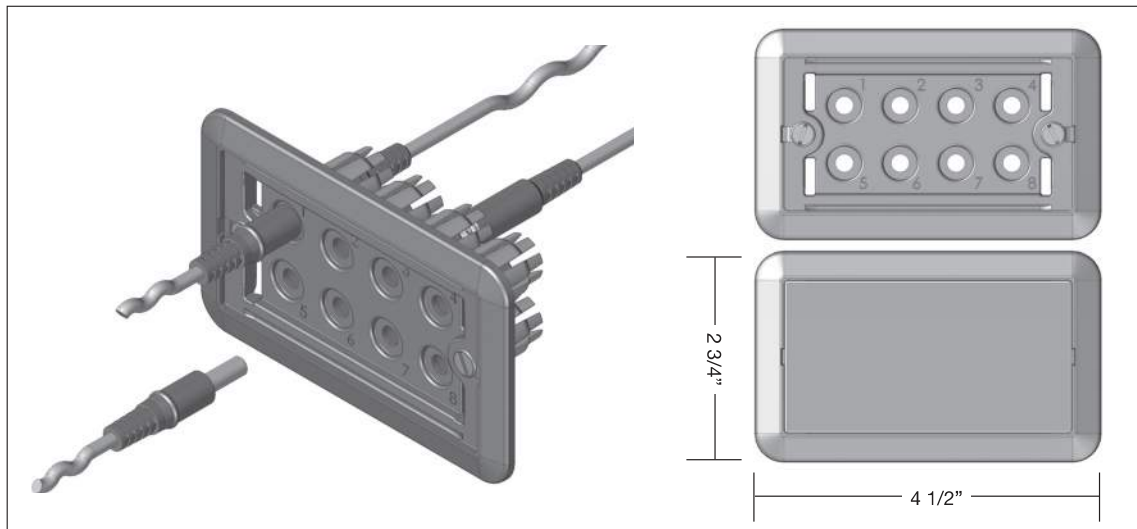
Patent Pending

Location/System	Qty.	Duct W x H Nominal Diameter	Cable Length	Termination

6235 South Oak Park Avenue Chicago, IL 60638 USA
Toll free: 800.585.7686 708.552.4040
Fax: 708.594.0396 www.metairtech.com

Represented by:

Electro-Balance® Multiple Port Finished Surface Interface Specifications



Patent pending

Furnish an 8 port white plastic surface termination plate and steel retaining bracket to capture and position Metropolitan Air Technology's Electro-Balance® over-molded cable connectors in a wall or ceiling opening. The surface termination plate shall be made from a UL94-V0 flammability rated paintable nylon material and mount flush to the wall (or ceiling) using a low-voltage (galvanized) steel retaining bracket or standard electrical box. Port locations shall be numbered and the inside surface of the removable cover shall provide space for port description information. The removable cover will install flush with the surrounding plate profile providing a smooth aesthetic appearance. Cable connectors shall snap manually into place from the rear without the need for any tools.

The 8 port surface interface plate shall be Metropolitan Air Technology LLC. (MAT) Model EB-SP8 and shall be used with MAT's Electro-Balance® battery powered damper systems.

The Electro-Balance™ EB-200 Rectangular Damper System Submittal

Project:

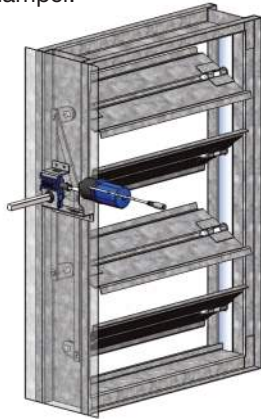
Date:

Architect:

Engineer:

Contractor:

Battery powered universal damper drive (EB-UDD).
Factory mounted to damper.



Cutaway Duct Detail

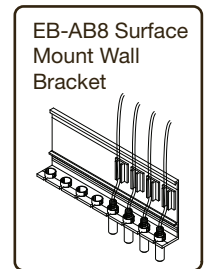
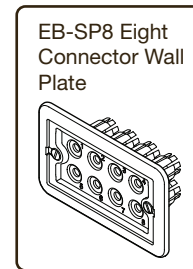
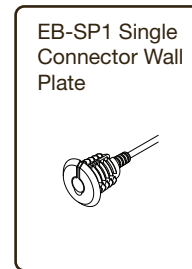
Plenum rated wiring with DC power connector routed to wall or ceiling location: 8', 15', 25', 50', 75' (longer custom lengths available)

7" width of side plate

Standard Damper Construction

- 16 gage galvanized steel channel frame with braced corners
- 16 gage galvanized steel blades. 8" max width
- Galvanized steel side plate for mounting EB-UDD Damper Drive
- Opposed blade design (parallel blades optional)
- Self-lubricated synthetic bearings
- 3/8 square shaft assures non slip connection
- Maximum temperature = -40° to 240° F
- Max velocity = 1500 FPM
- Width & height 1/4" undersized

Connector Termination Options



Available Damper Sizes

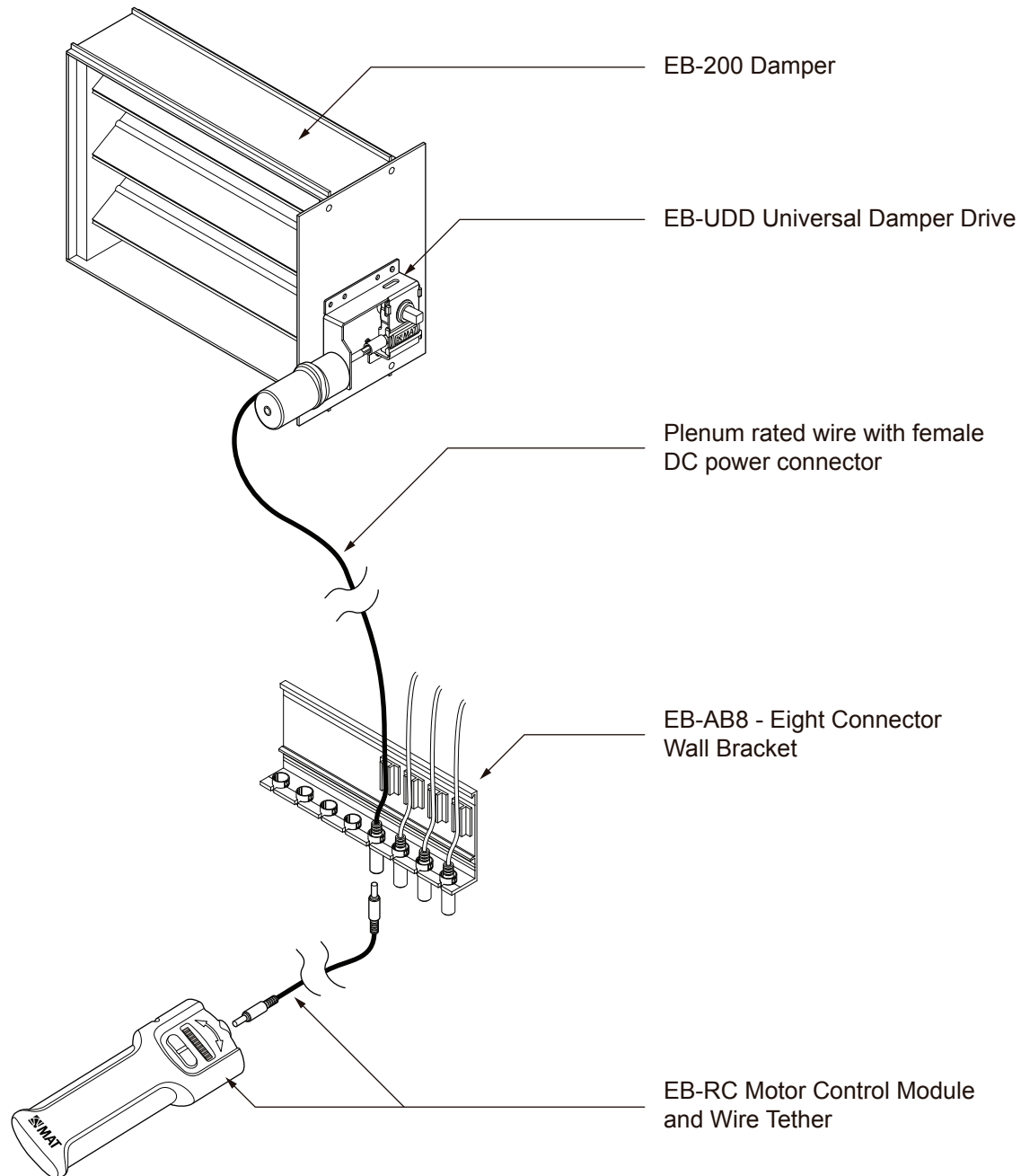
6" x 5" to 48" x 48"

Sectional Dampers available up to 96" x 96"

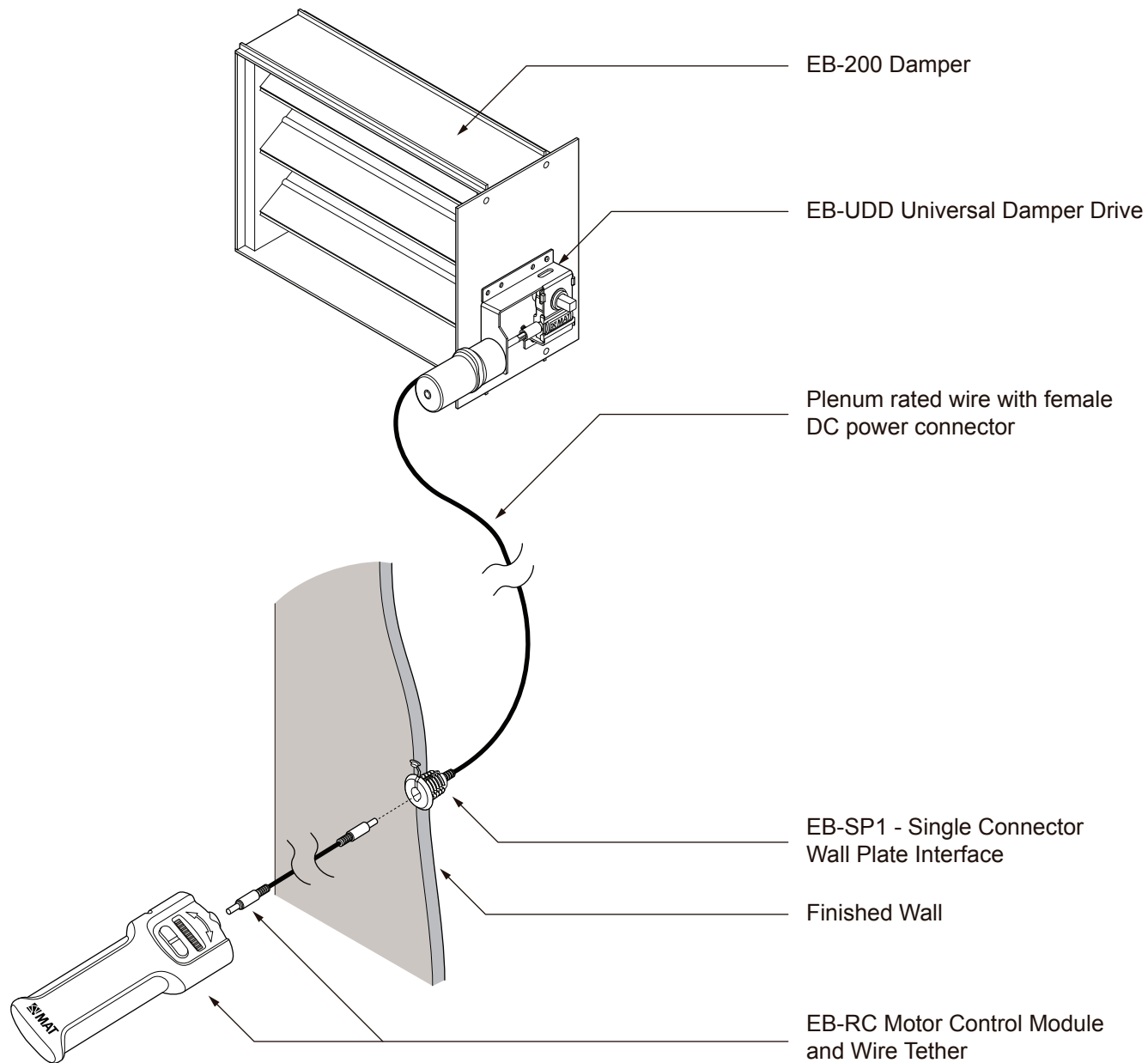
Patent Pending

Location/System	Qty.	Duct W x H Nominal	Cable Length	Termination

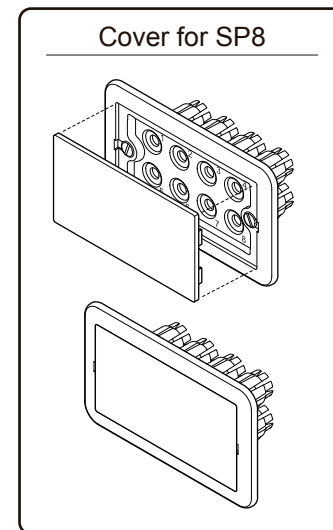
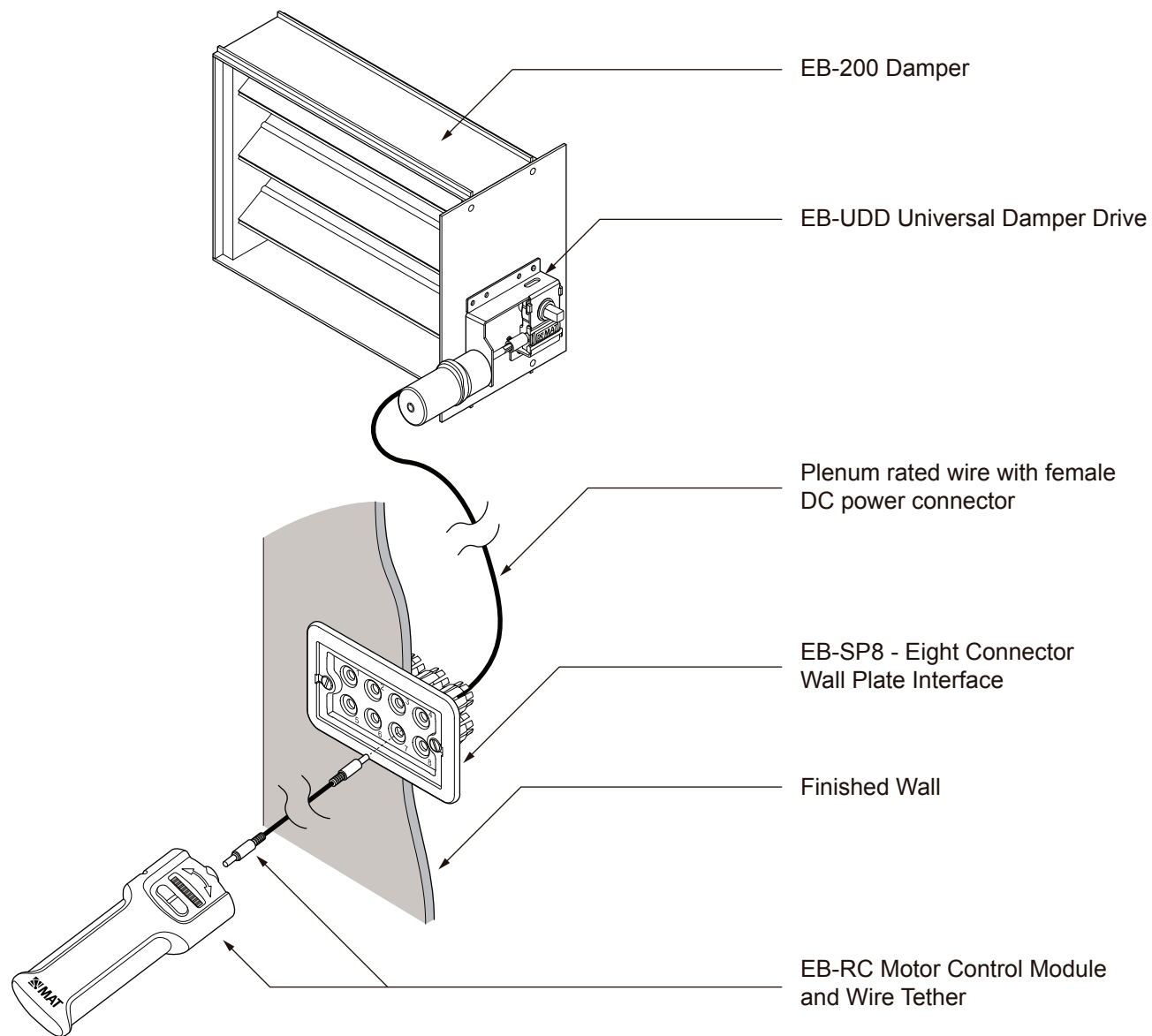
EB - 200 Damper System - With EB-AB8 Eight Connector Wall Bracket



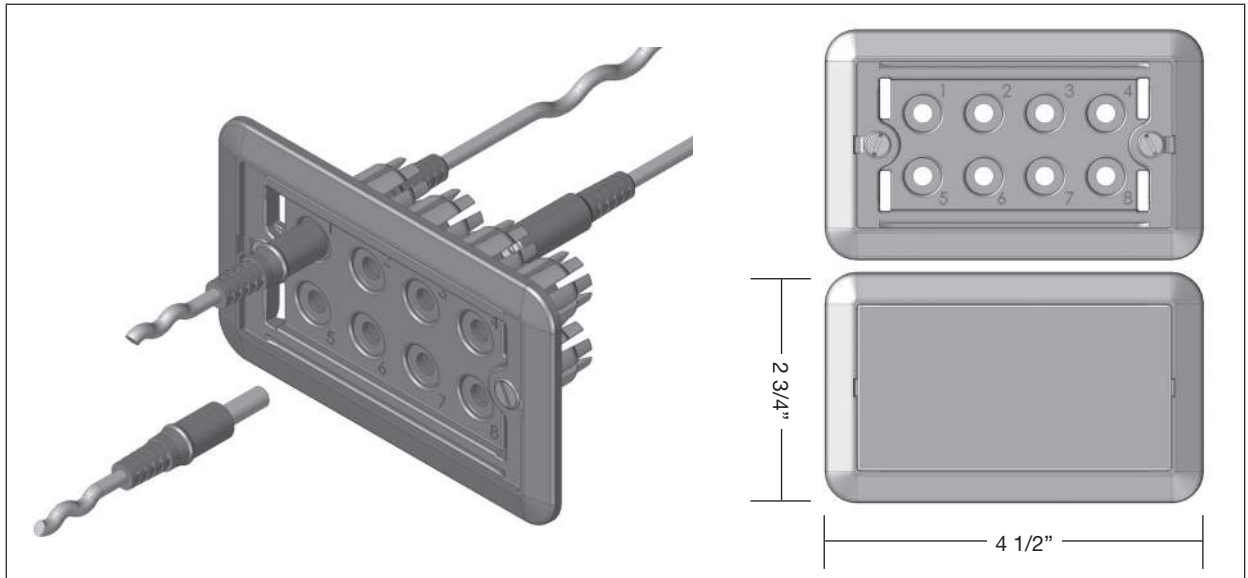
EB - 200 Damper System - With EB-SP1 Single Connector Interface



EB - 200 Damper System - With EB-SP8 Eight Connector Interface



Electro-Balance[®] Multiple Port Finished Surface Interface Specifications



Patent pending

Furnish an 8 port white plastic surface termination plate and steel retaining bracket to capture and position Metropolitan Air Technology's Electro-Balance[®] over-molded cable connectors in a wall or ceiling opening. The surface termination plate shall be made from a UL94-V0 flammability rated paintable nylon material and mount flush to the wall (or ceiling) using a low-voltage (galvanized) steel retaining bracket or standard electrical box. Port locations shall be numbered and the inside surface of the removable cover shall provide space for port description information. The removable cover will install flush with the surrounding plate profile providing a smooth aesthetic appearance. Cable connectors shall snap manually into place from the rear without the need for any tools.

The 8 port surface interface plate shall be Metropolitan Air Technology LLC. (MAT) Model EB-SP8 and shall be used with MAT's Electro-Balance[®] battery powered damper systems.

The Electro-Balance™ EB-250 Round Damper System Submittal

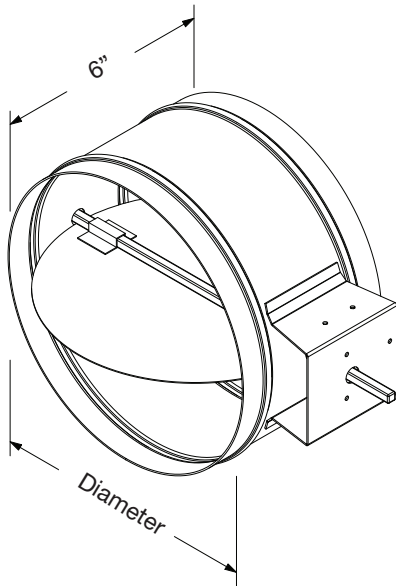
Project:

Date:

Architect:

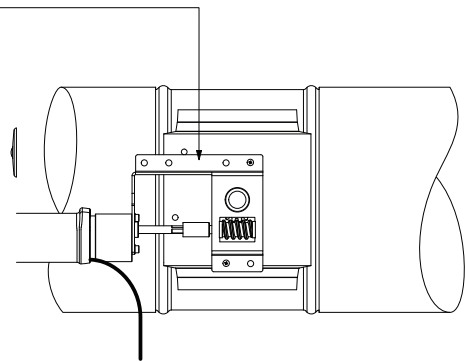
Engineer:

Contractor:



Battery powered universal damper drive (EB-UDD). Factory mounted to damper.

EB-250 Round Damper

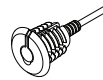


Plenum rated wiring with DC power connector:
8', 15', 25', 50', 75' (longer custom lengths available)
Connector Termination Options - shown below

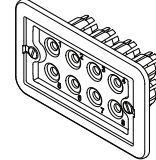
Standard Damper Construction (over 12" high)

- 20 ga. Galvanized steel with rolled bead stiffeners
- Reinforced blade, self lubricating bearings
- Standoff bracket for mounting EB-UDD Damper Drive
- 3/8" square (flat/flat) axle assures non slip connection
- Operating temperature = -40° - 200° F.
- Max velocity = 1500 FPM
- Furnished 1/8" undersized for male slip-in

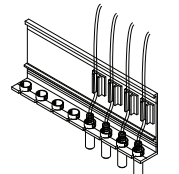
EB-SP1 Single Connector Wall Plate



EB-SP8 Eight Connector Wall Plate



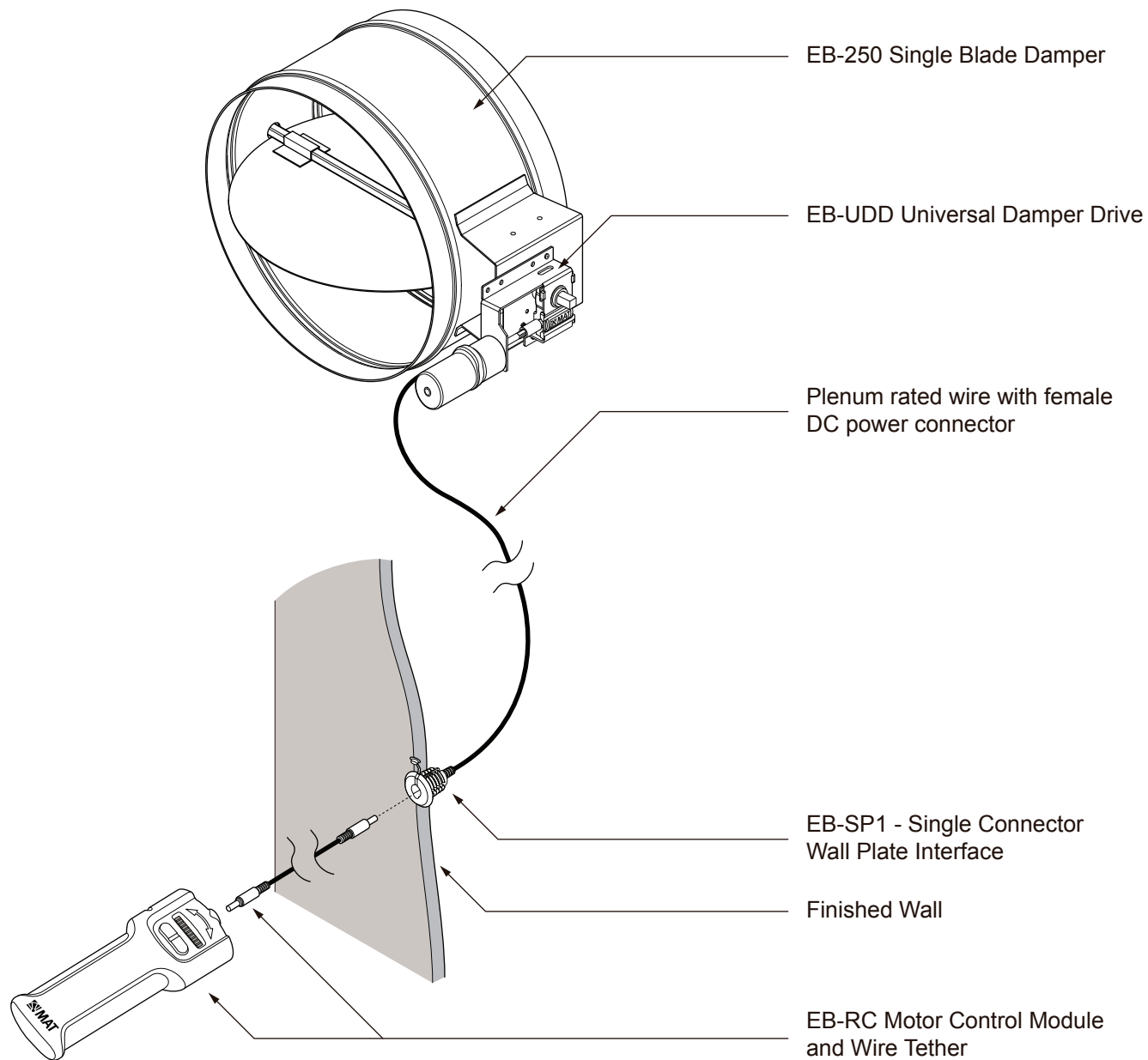
EB-AB8 Surface Mount Wall Bracket



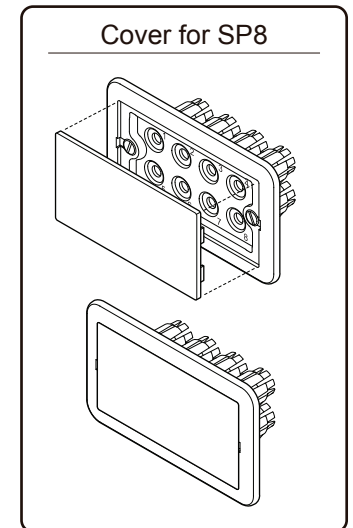
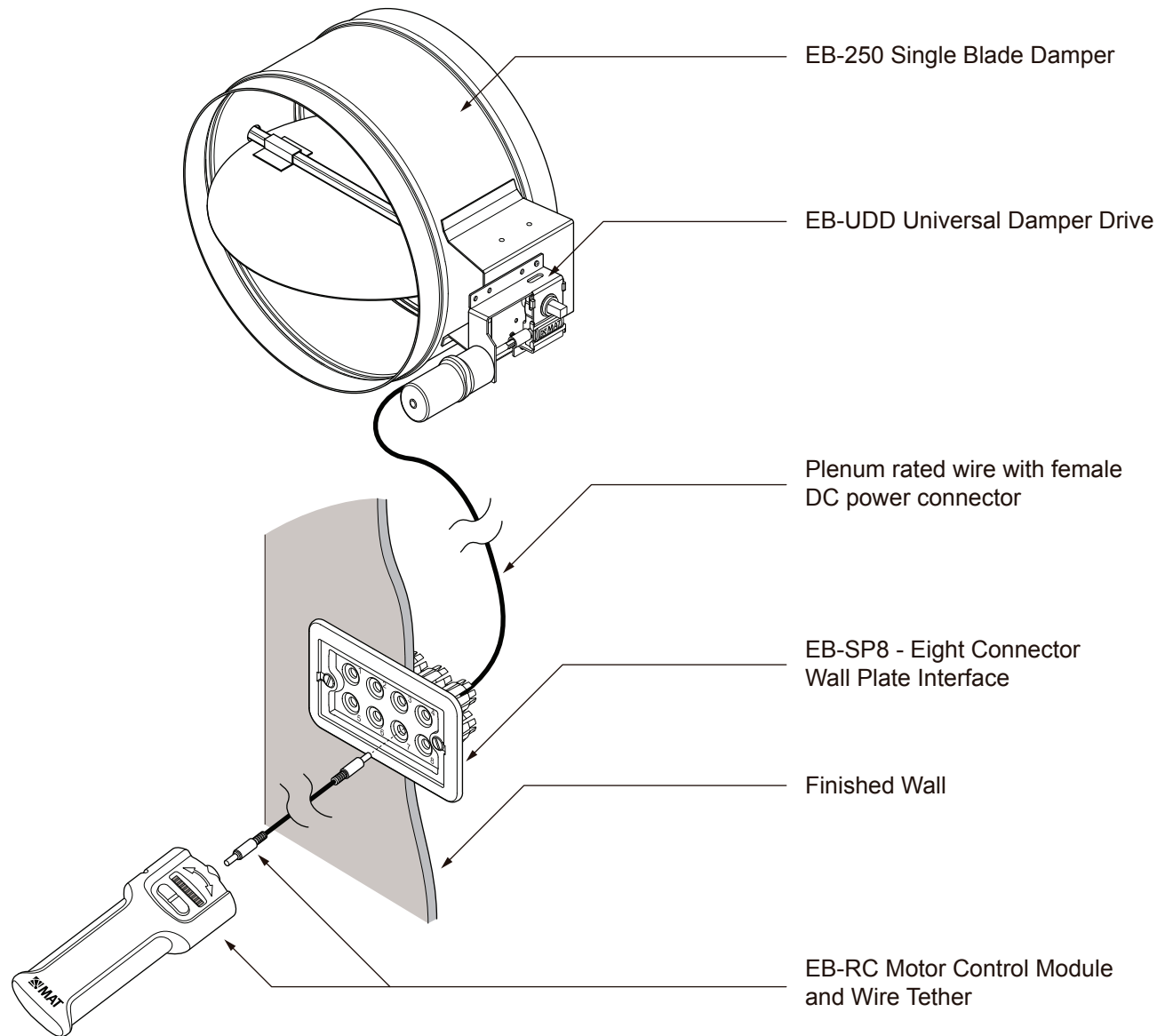
Patent Pending

Location/System	Qty.	Duct W x H Nominal Diameter	Cable Length	Termination

EB - 250 Damper Drive System - With EB-SP1 Single Connector Interface



EB - 250 Damper Drive System - With EB-SP8 Eight Connector Interface



Installation & Operation of Electro-Balance® Dampers & EB-UDD Battery Powered Universal Damper Drive

Please read completely before installing this equipment.

Receipt Inspection

Check material received against packing list. Claims resulting from factory errors must be made within 2 weeks after receipt of goods.

Installation

1. Prior to installing damper in duct, check to make sure blades operate freely with no binding or restriction. Blade interference or damper shaft interference with blade stop hardware may falsely signal to the remote control that the damper blade is in a full open or full closed position (in contact with the blade stop). This will result in the motor being turned off by the remote.
2. Secure the damper to duct. Make sure that fasteners do not interfere with blade operation and that damper is not racked. **Proceed to step 5 if you have purchased the EB-UDD drive with MAT dampers**
3. Mount EB-UDD universal damper drive to damper stand-off bracket or damper side plate by securing the damper drive in two locations opposed about the damper shaft. **Note: Mounting holes must be located to ensure that the spur gear axis and the damper shaft axis are concentric to prevent eccentric loads on the damper shaft.**
4. Align square shafts so as to catch set screws directly on flats. Tighten all four (4) set screws with a 1/8" Allen key so they are snug on the damper shaft. **Do not over tighten.**
5. Route wiring to the connector termination point. Excess cable can be bundled using the wire tie provided
6. **Before closing the ceiling, test the unit to verify smooth damper operation and system connectivity:**
 - a. Connect the EB-UDD universal damper drive connector to the hand held remote control using the grey male-to-male connector cable supplied with the remote. (See Figure 1)
 - b. Turn on the remote using the slide switch on the side of the housing. The green on/off LED will illuminate.
 - c. Operate the rocker switch on the remote control to ensure smooth damper operation through the open/close cycle. Right toggle opens the damper, left toggle closes the damper.
 - i. If the LED array on the remote control flashes red then green, connectivity has been broken. Check for sliced wiring or a loose connection at the motor. Note: If wiring or connectors are damaged in the field, they can be replaced quickly. Contact your sales rep for replacement components.
 - ii. If your damper has blade stops, the remote will turn off the motor when the damper blade contacts the stops. If the remote control turns the EB-UDD

Installation & Operation of Electro-Balance® Dampers & EB-UDD Battery Powered Universal Damper Drive

closed position, check to make sure that there are no fasteners interfering with damper blade operation. If using non MAT dampers, check to make sure that the EB-UDD universal damper drive is mounted concentric with the damper shaft.

7. The LED array will indicate approximate blade position for dampers with 90° open/close cycle. To use this feature, the damper must first be set to a full open or closed position. Then as you operate the remote, the LEDs will light up in sequence. There are 10 LEDs. If five are lit, the damper is 50% open.
8. The EB-UDD universal damper drive connectors can be terminated in a wall or ceiling using various MAT surface termination fixtures. See separate installation instructions for the EB-SP1, EB-SP8 and EB-AB8.
9. Balancing damper position is set during testing & balancing and remains fixed during HVAC operation so the EB-UDD damper drive does not require any maintenance. Access panels are not required.

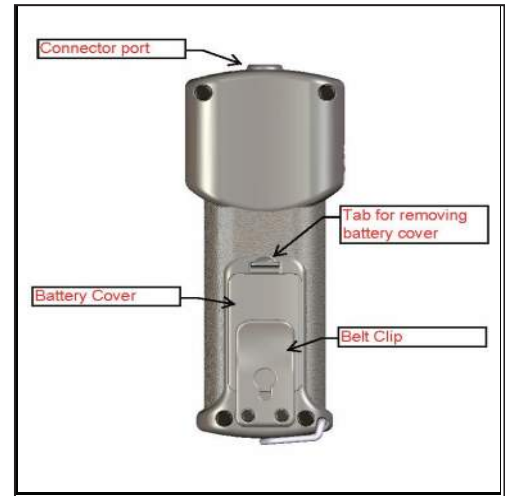
Operation Of EB-UDD Universal Damper Drive

Dampers are adjusted by connecting the grey male-to-male wire tether (supplied with the remote) to the hand held remote control and the damper motor connector. Turn on the remote using the slide switch on the side of the housing. The green on/off LED will illuminate. Press the rocker switch on the remote control to operate the damper. Right toggle opens the damper, left toggle closes the damper. If the LED array blinks alternating red and green, there is an open connection. Check to make sure the remote control male connectors are pushed all the way in.

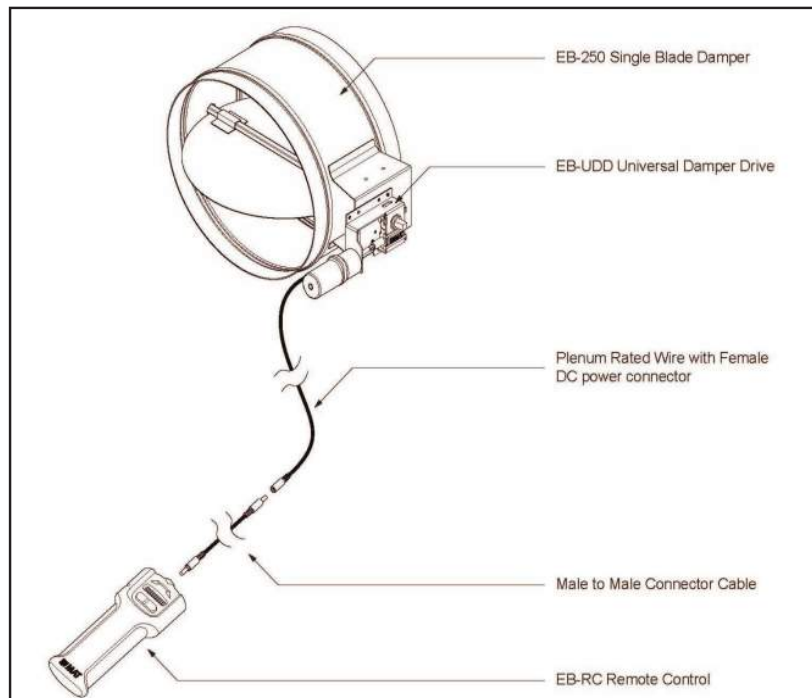
The LED array will indicate approximate blade position for dampers with 90° open/close cycles. To use this feature, the damper must first be set to a full open or closed position. Then as you operate the remote, the LEDs will light up in sequence. There are 10 LEDs. If five are lit, the damper is 50% open.

The on/off LED will flash to indicate low battery condition. The remote will continue to operate the damper but battery replacement will be needed soon. The Duracell 9V battery can be replaced by removing the battery cover on the back of the remote housing. It is not necessary to remove the belt clip to replace the battery.

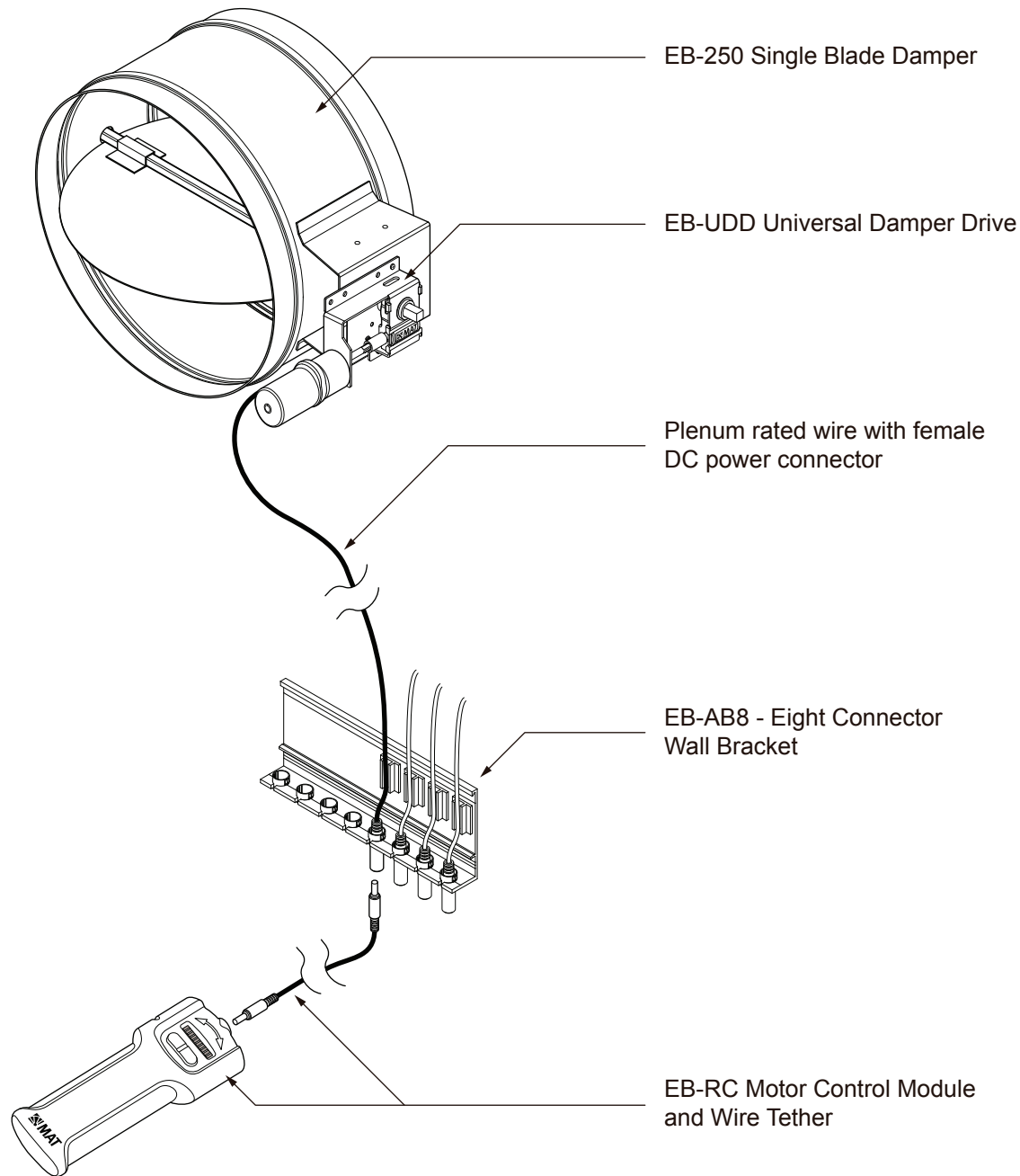
Installation & Operation of Electro-Balance® Dampers & EB-UDD Battery Powered Universal Damper Drive



EB-RC Remote control



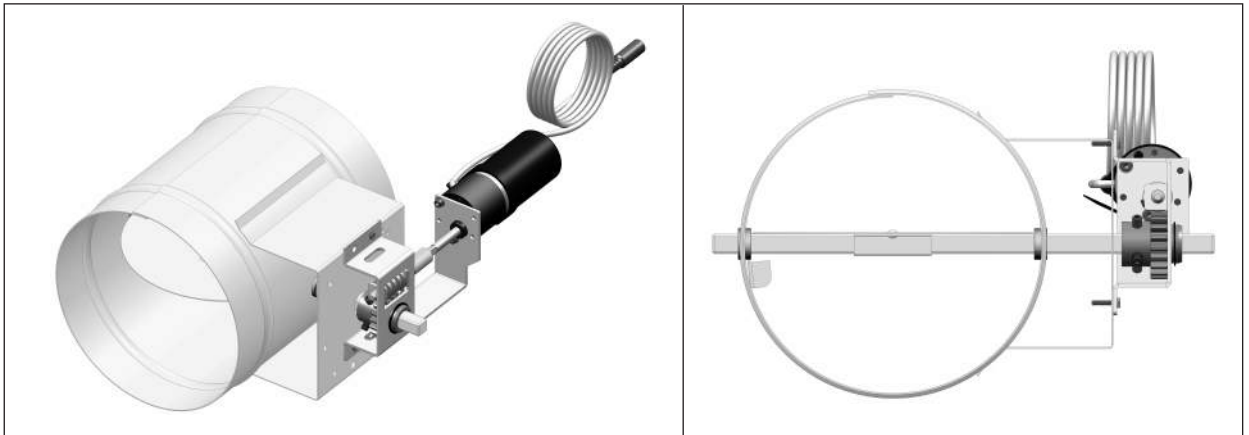
EB - 250 Damper Drive System - With EB-AB8 Eight Connector Wall Bracket



The leader in air flow control technology

Electro-Balance® Universal Damper Drive Specifications

Our low-voltage battery powered balancing dampers with universal drive mechanisms offer increased flexibility with inaccessible designs and crowded spaces.

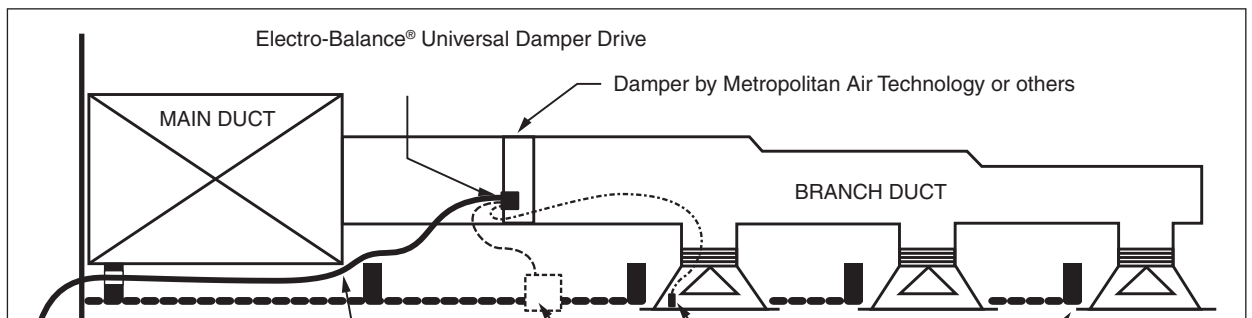


Features & Benefits

- Accommodates damper shaft sizes from 1/4" to 1/2" round and 1/4" to 3/8" square
- Low-voltage DC actuator operated with remote power source (9V battery)
- No wire crimping, soldering, or small parts assembly required
- Handheld remote control features an LED open circuit indicator for field verification of proper installation and LED damper position indicator

Standard Construction

- Pre-wired with plenum rated cable
- 9V DC motor is factory mounted and compliance tested
- UL94-V0 flammability rated materials used for surface termination plates
- 5.5 mm DC power connectors



Electro-Balance® Single Port Finished Surface Interface Specifications

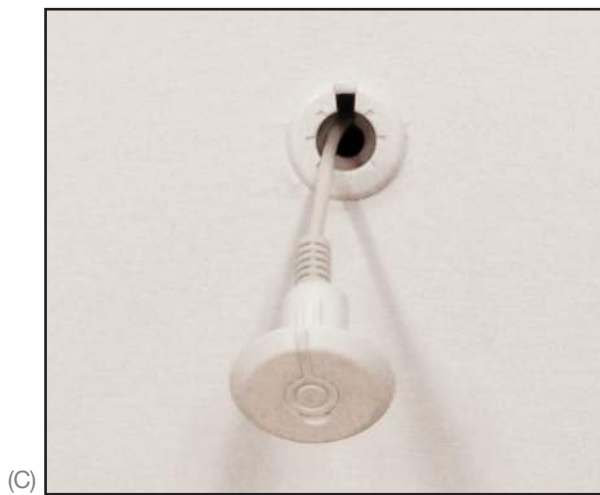
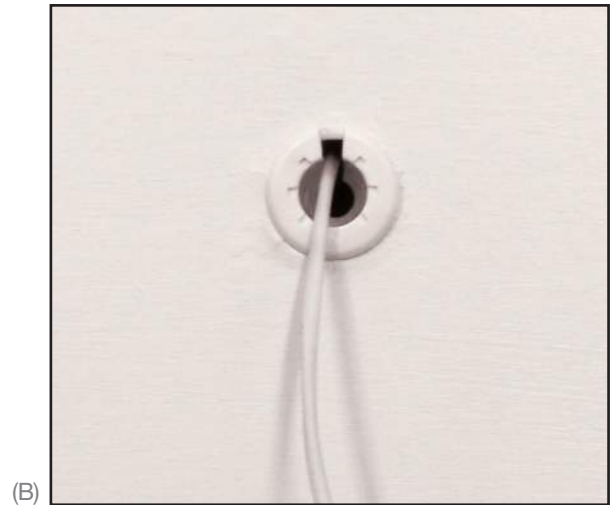


Patent pending

Furnish a single port white plastic surface termination plate to capture and position Metropolitan Air Technology's Electro-Balance® over-molded cable connector in a wall or ceiling opening. The surface termination plate shall be made from a UL94-V0 flammability rated paintable nylon material, have a diameter not larger than 1 3/8", and mount flush to the ceiling or wall. The connector shall manually load into the surface termination plate and the assembly shall be inserted into the wall or ceiling opening without the need for any tools. An integral cap on the surface termination plate shall open to allow cable connector access. In the closed position, the cap shall rest flush with the surrounding plate surface, providing a smooth aesthetic appearance. The surface termination plate shall accommodate ceiling/wall thicknesses from 5/8" - 1".

The surface interface plate shall be Metropolitan Air Technology LLC. (MAT) Model EB-SP1 and shall be used with MAT's Electro-Balance® battery powered damper systems.

Electro-Balance™ Single port Wall Plate (EB-SP1) Installation Instructions



Patent pending

1. Drill a 7/8" dia. hole in the wall.
2. Drop connector thru the wall to room side.
3. Slide wiring into "Part B" through the slot opening along the side of the part. (Illustration A)

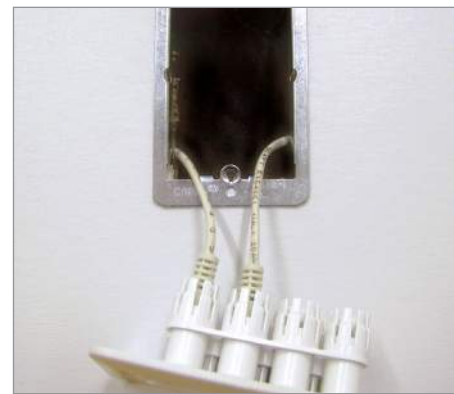
Model EB-SP8 Multiple Connector Finished Surface Interface

(for connector termination in a wall or ceiling)

1. Use attached caddy instructions to prep the wall opening and install the mounting plate (Illustration A).
2. Label the connector locations on the back side of the wall plate cover.
3. Route all connectors through the wall opening (paying attention to identify the connectors by location). Push connector into designated wall plate port until it snaps into place. (Illustration B)
4. Push excess cable back into wall opening and insert EB-SP8 wall plate. Secure with screws included. (Illustration C)
5. Install cover. (Illustration D)



A



B



C



D