

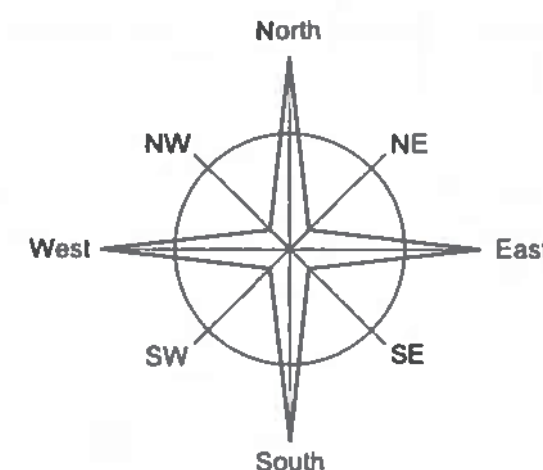
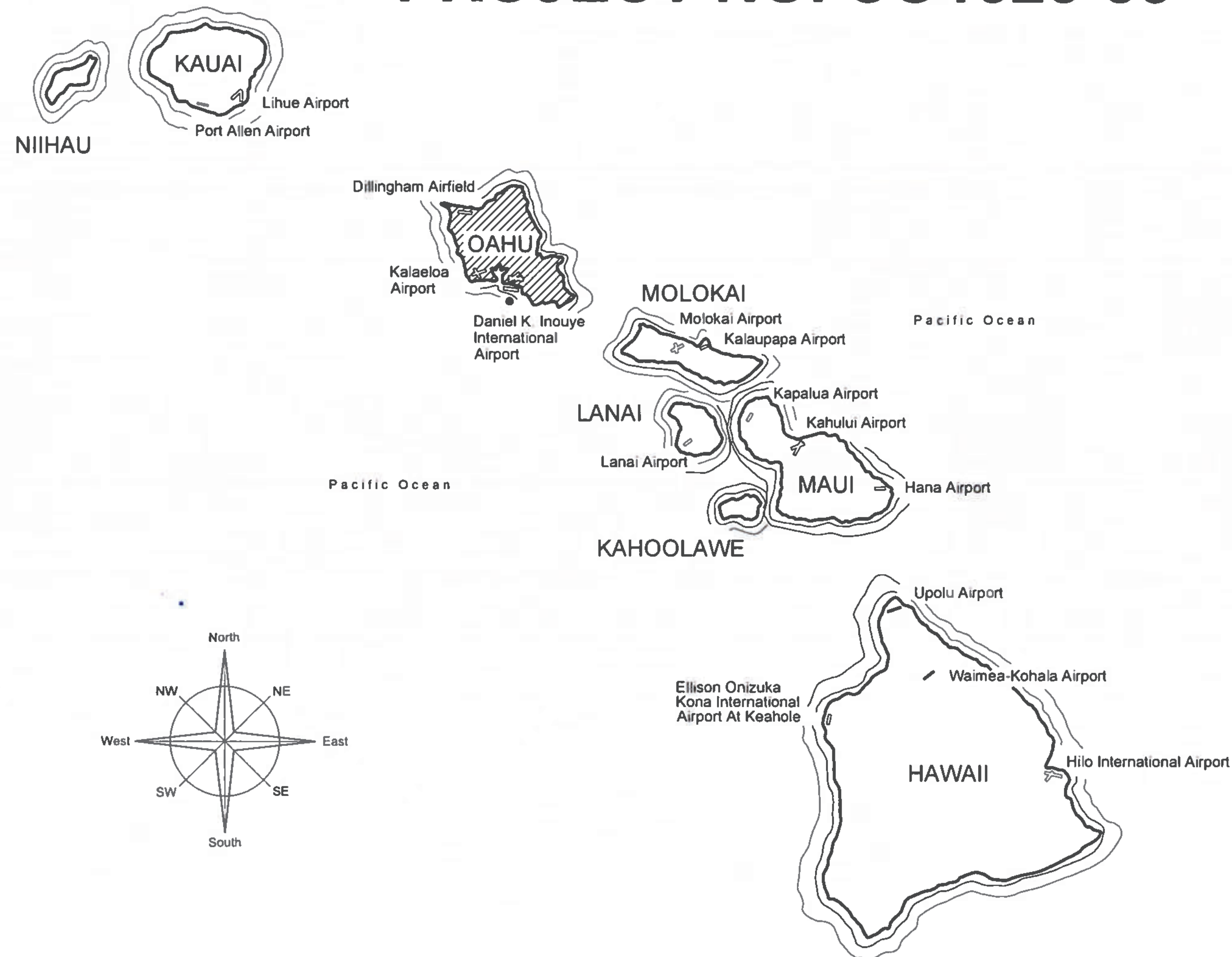
# STATE OF HAWAII DEPARTMENT OF TRANSPORTATION AIRPORTS

PLANS FOR

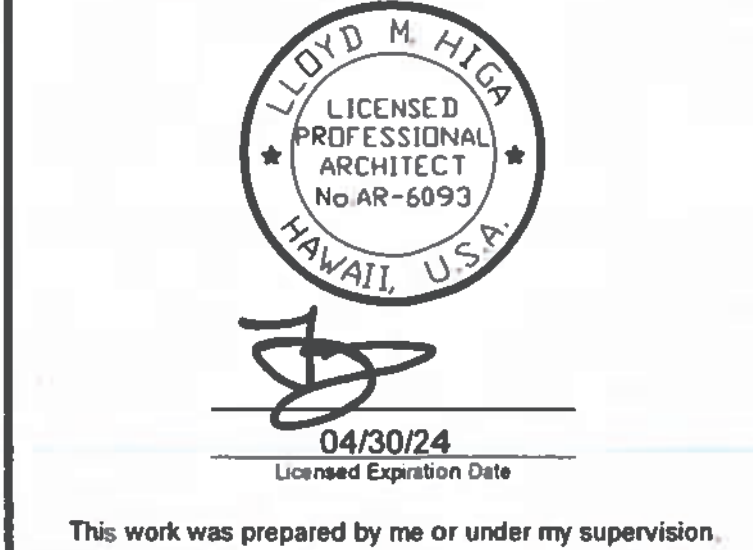
# CONVERT CARGO BUILDING TO WORKSHOP

AT

## DANIEL K. INOUE INTERNATIONAL AIRPORT HONOLULU, OAHU, HAWAII PROJECT NO. CO1325-33



<b>PROJECT TEAM</b>	
<b>ARCHITECTURAL:</b> YAMASATO HIGA ARCHITECTURE AND PLANNING, INC. 615 PIKOI STREET, #1806 HONOLULU, HI 96814 (808) 531-8825	 LLOYD M. HIGA ARCHITECT
<b>STRUCTURAL:</b> SSFM INTERNATIONAL, INC. 501 SUMNER STREET, #620 HONOLULU, HI 96817 (808) 531-1308	 KATHLEEN WONG STRUCTURAL ENGINEER
<b>MECHANICAL/PLUMBING:</b> INSYNERGY ENGINEERING, INC. 828 FORT STREET MALL, #500 HONOLULU, HI 96813 (808) 521-3773	 OWEN CRABTREE MECHANICAL ENGINEER
<b>FIRE PROTECTION:</b> INSYNERGY ENGINEERING, INC. 828 FORT STREET MALL, #500 HONOLULU, HI 96813 (808) 521-3773	 OWEN CRABTREE MECHANICAL ENGINEER
<b>ELECTRICAL:</b> INSYNERGY ENGINEERING, INC. 828 FORT STREET MALL, #500 HONOLULU, HI 96813 (808) 521-3773	 GARRET A. MASUDA ELECTRICAL ENGINEER
<b>ENVIRONMENTAL:</b> MURANAKA ENVIRONMENTAL CONSULTANTS, INC. P.O. BOX 4341 HONOLULU, HI 96812 (808) 845-8822	
<b>COST ESTIMATE:</b> J.UNO & ASSOCIATES, INC. 1210 WARD AVENUE HONOLULU, HI 96814 (808) 947-6855	



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JM	KN	JM	

NO.	DATE	REVISIONS

DATE

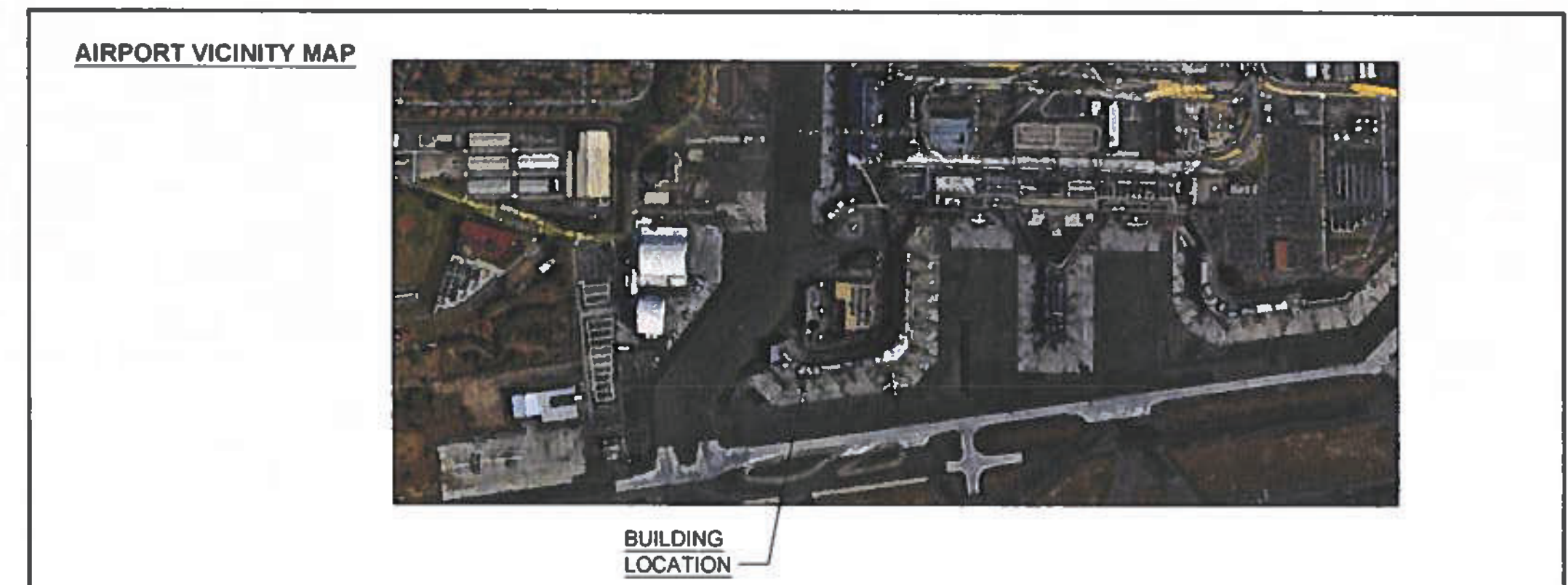
PROJECT TITLE :  
**CONVERT CARGO BUILDING  
TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:  
**CO1325-33**

SHEET TITLE:

**COVER SHEET,  
ISLAND MAP,  
VICINITY MAP**



DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII

APPROVED:  
  
DIRECTOR OF TRANSPORTATION

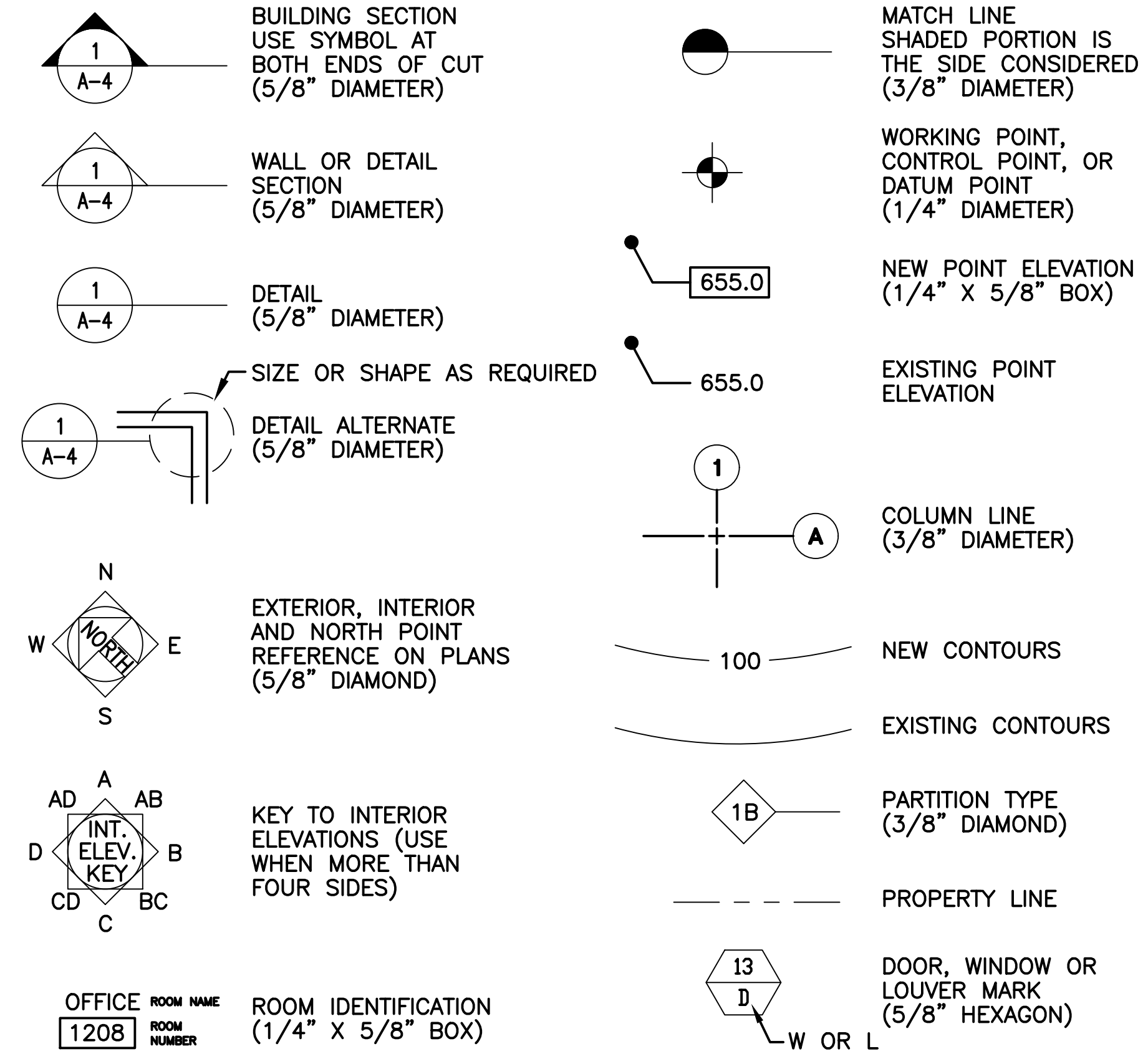
DATE: **5/12/23**

DATE	DWG. NO.
05/10/23	<b>G000</b>
SHEET	
1 OF 84 SHEETS	

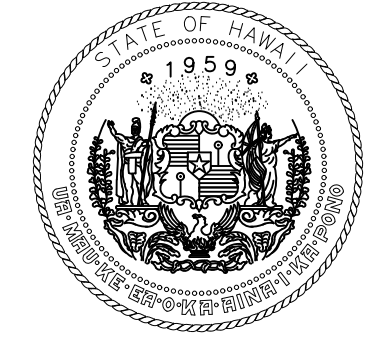
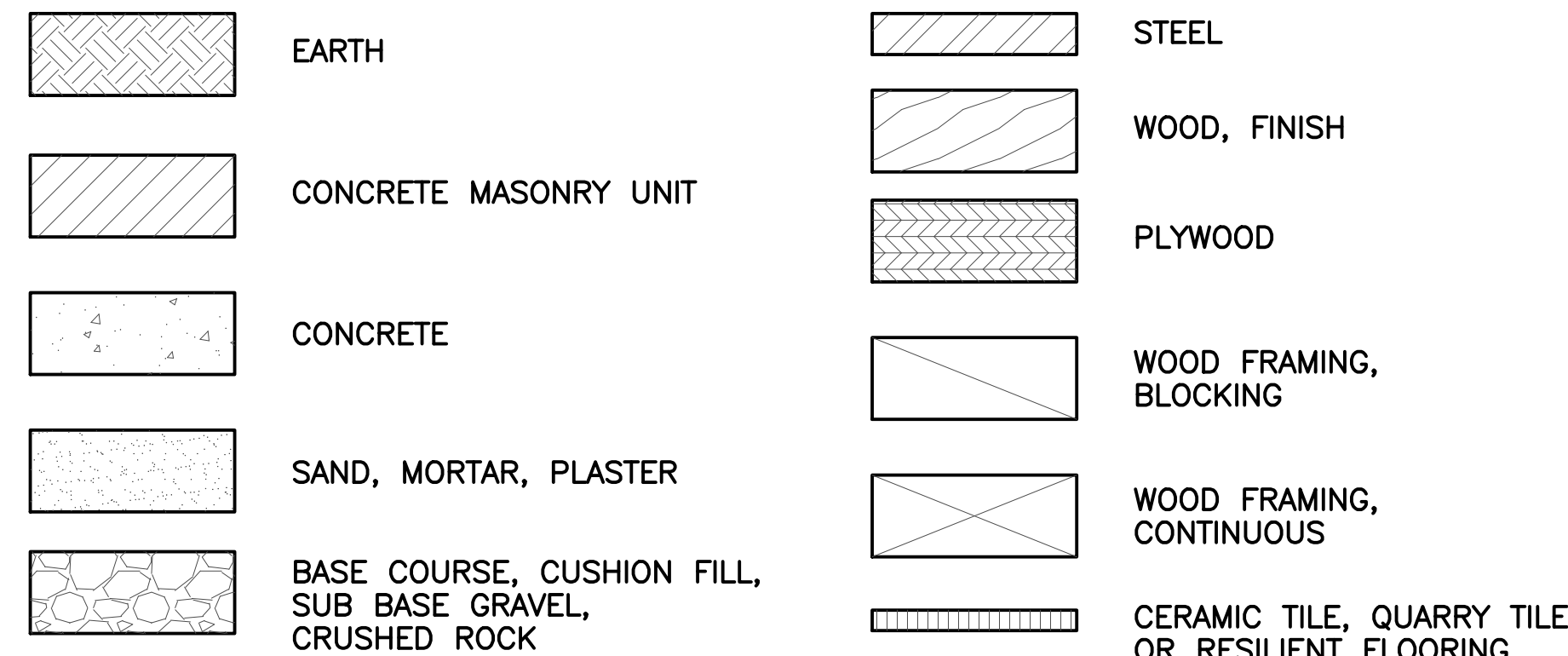
# INDEX TO DRAWINGS

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2	G001	INDEX TO DRAWINGS, SYMBOLS	54	F002	FIRE ALARM NOTES AND LEGEND
3	G002	ABBREVIATIONS	55	F003	FIRE DEPARTMENT NOTES
			56	F101	FIRE PROTECTION REMOVAL PLAN
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37	M201	ENLARGED MECHANICAL PLAN - 01			
38	M202	ENLARGED MECHANICAL PLAN - 02			
39	M203	ENLARGED MECHANICAL PLAN - 03			
40	M501	MECHANICAL DETAILS			
41	M502	MECHANICAL DETAILS			
42	M601	MECHANICAL SCHEDULES			
43	M602	MECHANICAL SCHEDULES			
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45	P001	PLUMBING NOTES AND LEGEND			
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51	P501	PLUMBING DETAILS			
52	P601	PLUMBING SCHEDULES			

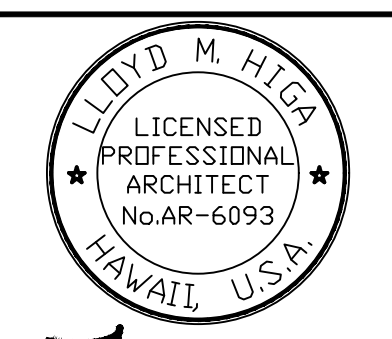
## TYPICAL SYMBOLS



## TYPICAL MATERIAL SECTIONS



Airports Division  
DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



LLOYD M. HIGA  
LICENSED PROFESSIONAL ARCHITECT  
No. AR-6093  
HAWAII, U.S.A.  
04/30/24  
Licensed Expiration Date

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DSGN.	DRWN.	CHKD.	APPD.
JM	KN	JM	

NO.	DATE	REVISIONS

DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**INDEX TO DRAWINGS SYMBOLS**

DATE : 05/10/23

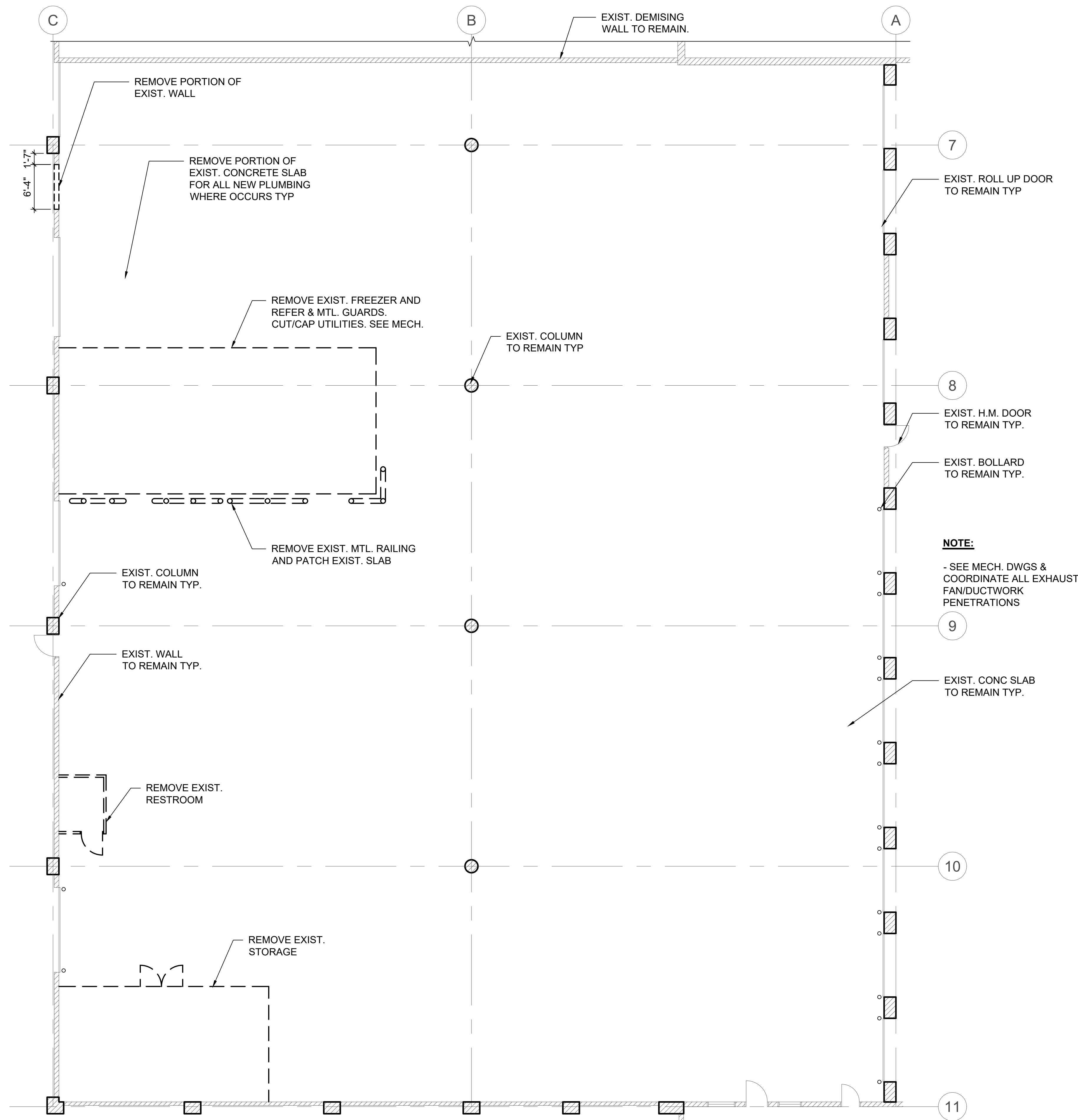
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DWG. NO.

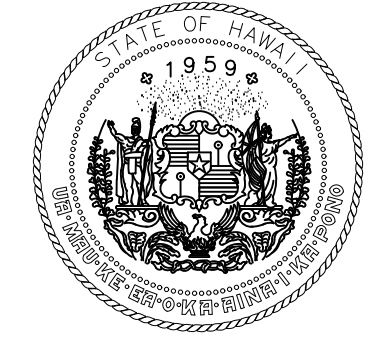
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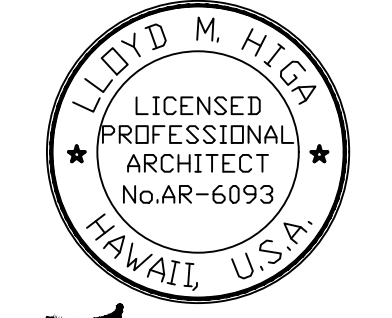




**1** EXISTING/DEMOLITION PLAN  
 A-001.1 SCALE: 1/8"= 1'-0"  
 2' 0' 2' 4' 6' 10' 14'



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 DEPARTMENT OF TRANSPORTATION  
 STATE OF HAWAII



*Lloyd M. Higa*  
 04/30/24  
 Licensed Expiration Date

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 HONOLULU, OAHU, HAWAII

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**CO1325-33**

**SHEET TITLE:**

**EXISTING/DEMOLITION PLAN**

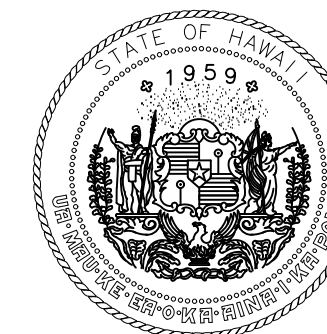
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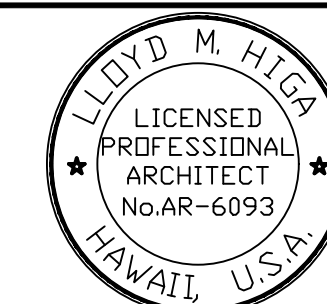
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**A001.1**

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LICENSED PROFESSIONAL ARCHITECT  
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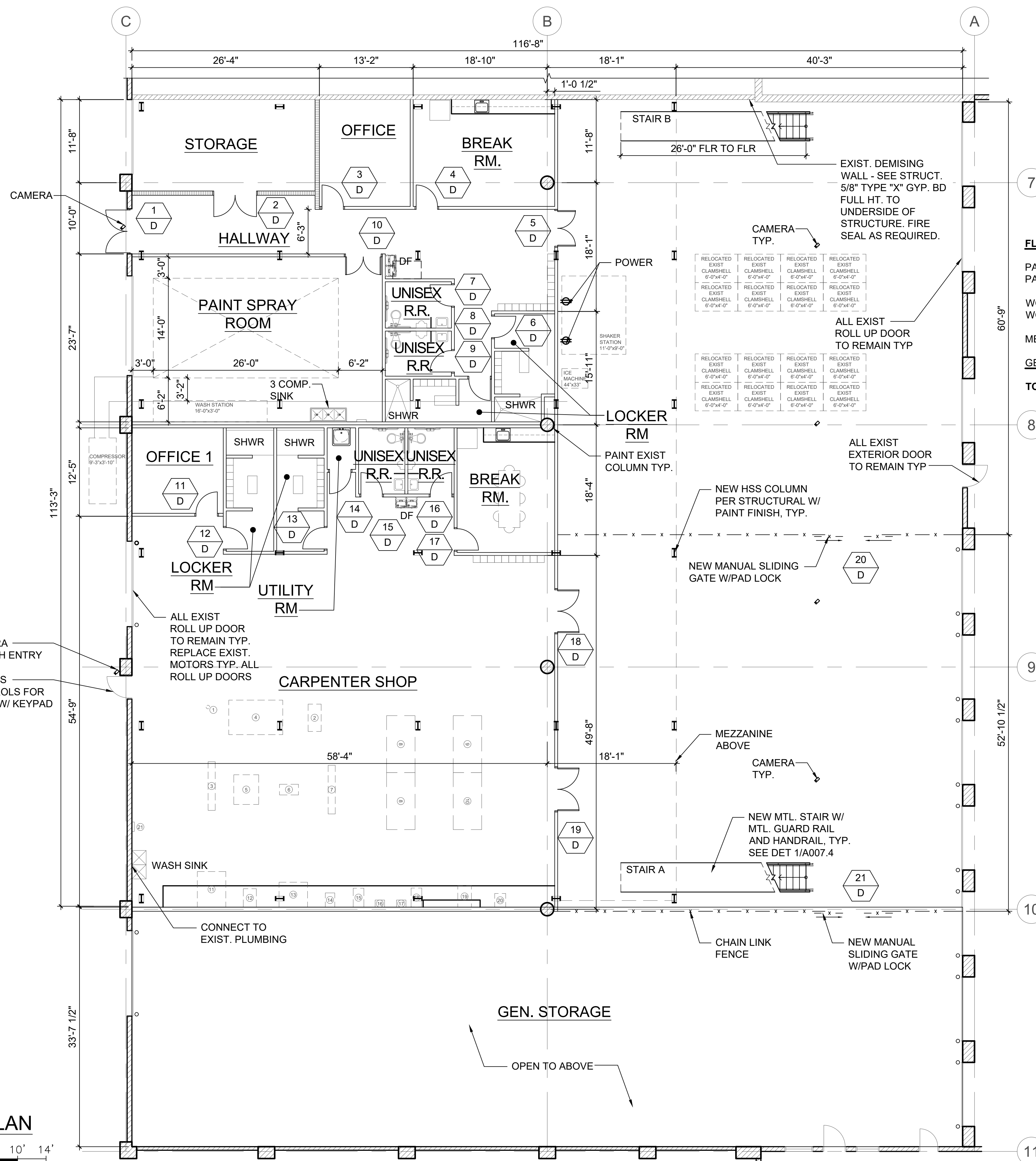
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JM	KN	JM	

**FLOOR AREA CALCULATION:**

PAINT SHOP = 2,674 SF  
 PAINT SHOP STOR = 3,618 SF  
 WOOD SHOP - 3,890 SF  
 WOOD SHOP STOR = 3,067 SF  
 MEZZANINE = 2,093 SF  
 GENERAL AIRPORT STOR = 3,938 SF  
**TOTAL BUILDING FLOOR AREA = 19,280 SF**

**WALL LEGEND**

- EXIST WALL TO REMAIN
- 3 5/8" METAL STUD @ 16" O.C. W/ 5/8" TYPE "X" GYPBD. BOTH SIDE



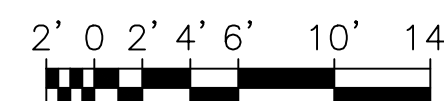
**EQUIPMENT LIST**

1	DISC. SANDER
2	24" SURFACE PLANER
3	8" JOINTER
4	10" TABLE SAW
5	10" TABLE SAW
6	18" SURFACE PLANER
7	8" JOINTER
8	4' X 8" ROLLING WORK TABLE
9	4' X 8" ROLLING WORK TABLE
10	4' X 8" ROLLING WORK TABLE
11	16" RADIAL ARM SAW
12	8 1/2" CHOPSAW
13	24" BAND SAW
14	14" BAND SAW
15	16 1/2" DRILL PRESS
16	6" BENCH GRINDER
17	6" BUFFER
18	16 1/2" DRILL PRESS
19	12" RADIAL ARM SAW
20	10" SLD. CHOPSAW
21	EMERGENCY EYE WASH PORTABLE, SELF CONTAINED

CAMERA @ BOTH ENTRY  
 ACCESS CONTROLS FOR DOOR W/ KEYPAD

**1 RENOVATED FLOOR PLAN**

A-002.1 SCALE: 1/8" = 1'-0"



NO.	DATE	REVISIONS

DATE

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AT DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**RENOVATED FLOOR PLAN**

DATE :

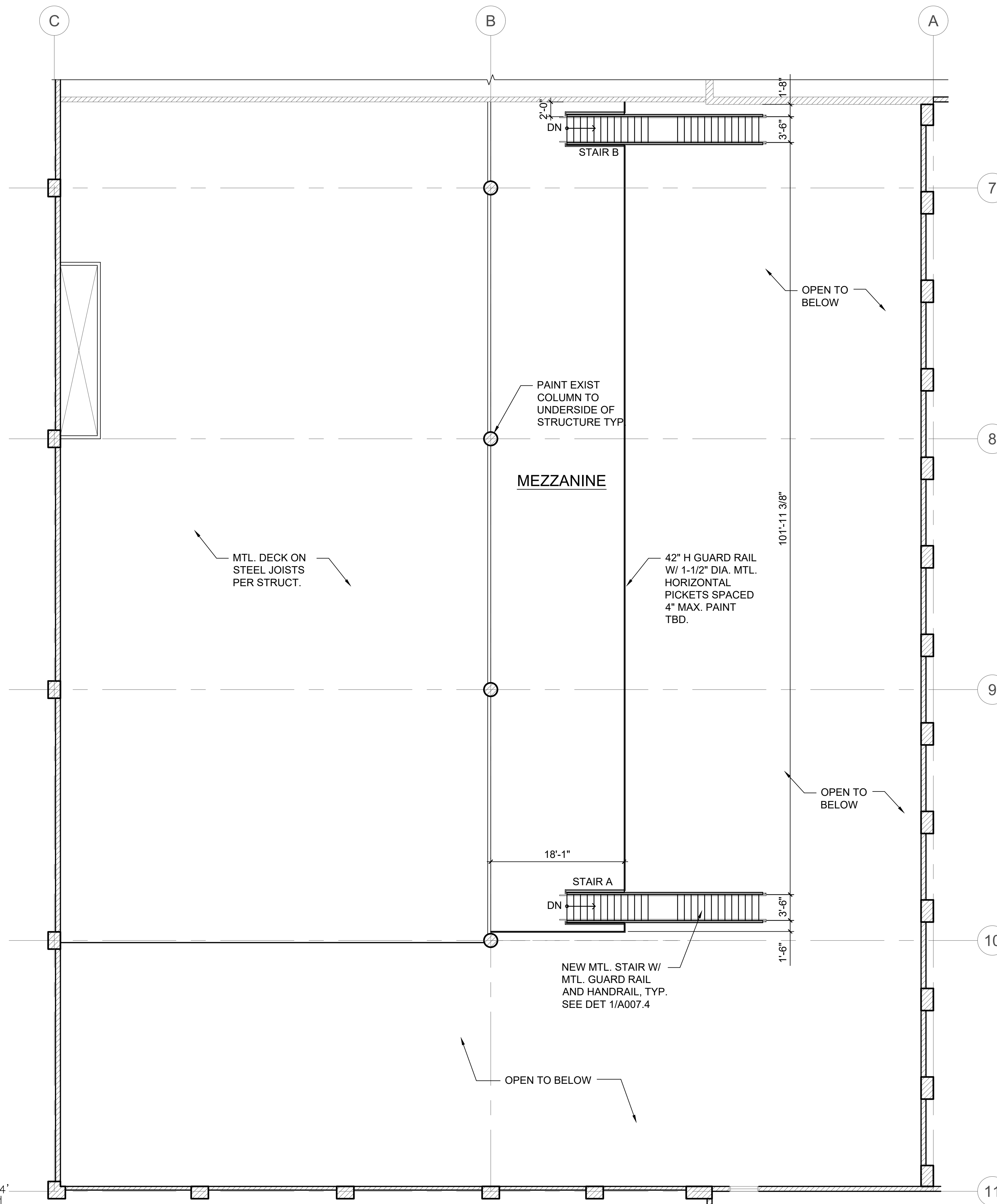
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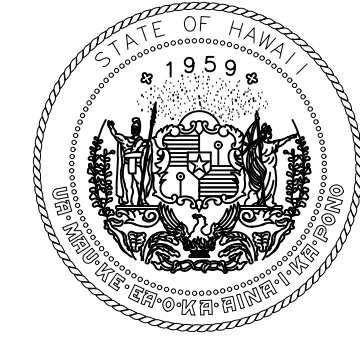
5 OF 84 SHEETS

DWG. NO.

**A002.1**



1 MEZZANINE FLOOR PLAN  
 A-002.2 SCALE: 1/8" = 1'-0"  
 2' 0' 2' 4' 6' 10' 14'



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AT  
 DANIEL K. INOUE INTERNATIONAL AIRPORT  
 HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**MEZZANINE FLOOR PLAN**

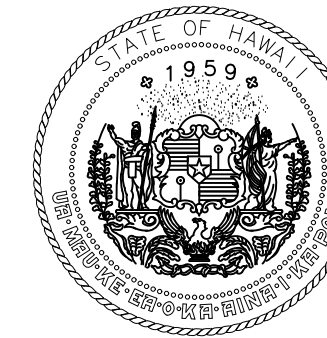
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DWG. NO.

**A002.2**

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LLOYD M. HIGA  
LICENSED PROFESSIONAL ARCHITECT  
No. AR-6093  
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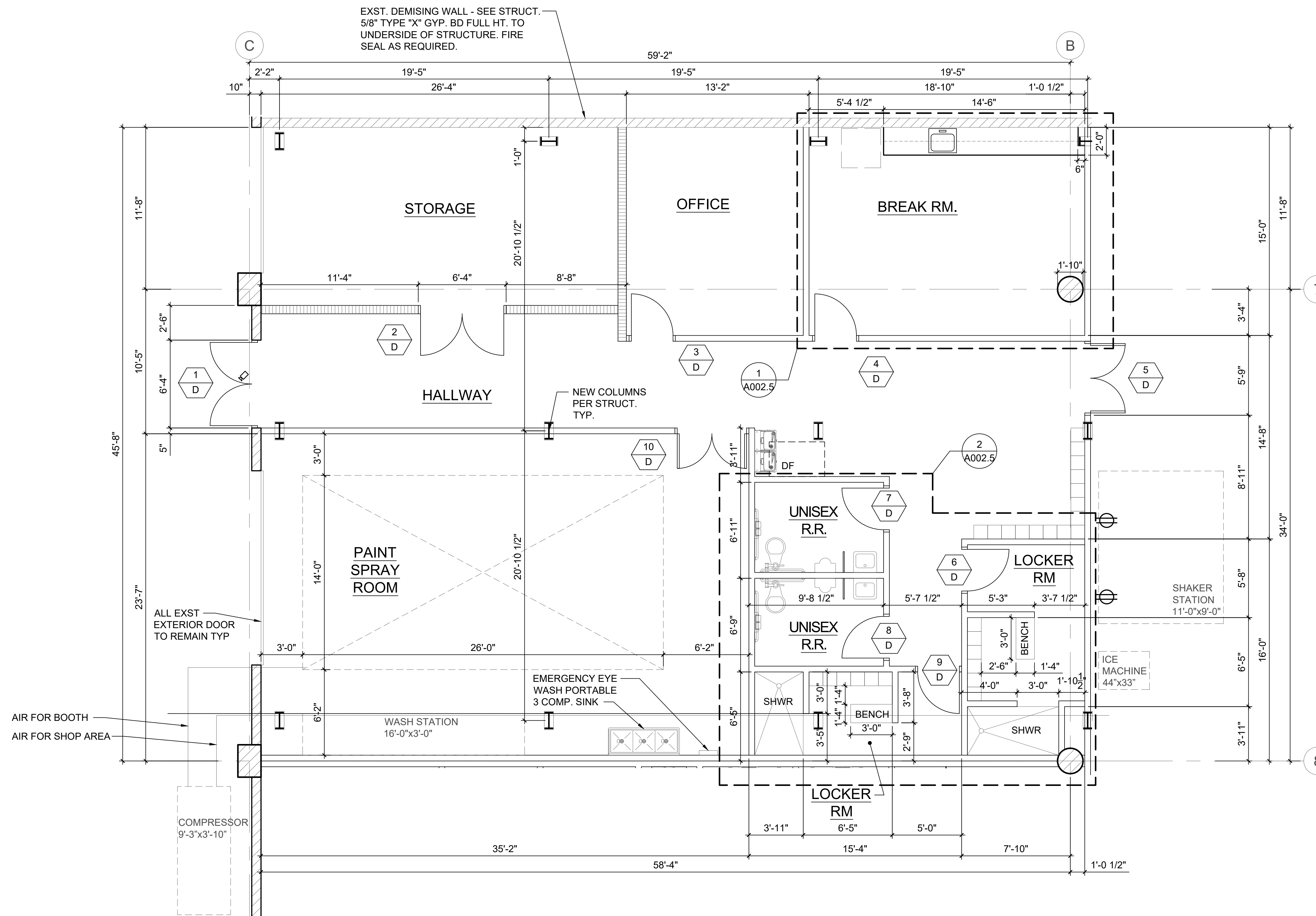
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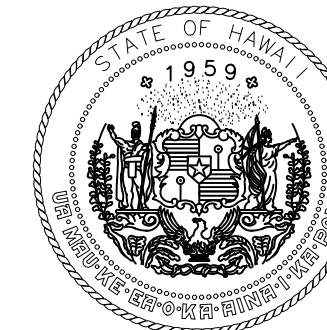
**PAINT SHOP PLAN**

DATE :	DWG. NO.
05/10/23	<b>A002.3</b>
SHEET :	
7 OF 84 SHEETS	



**1 PAINT SHOP PLAN**  
A-002.2 SCALE: 1/4" = 1'-0"  
1' 0 2' 4' 8'

C:\USERS\NAKAZAWA\ONE\DRIVE - YAMASATO HIGA ARCHITECTS\2024-063 DOTA CONTINENTAL CARGO BLDG\CONTINENTAL WAREHOUSE - HNL\DRAWING\WORKING DWGS\007 A002.3\_PEN0 PAINT PLAN.DWG



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STATE OF HAWAII



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HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**CARPENTER SHOP PLAN**

DATE :

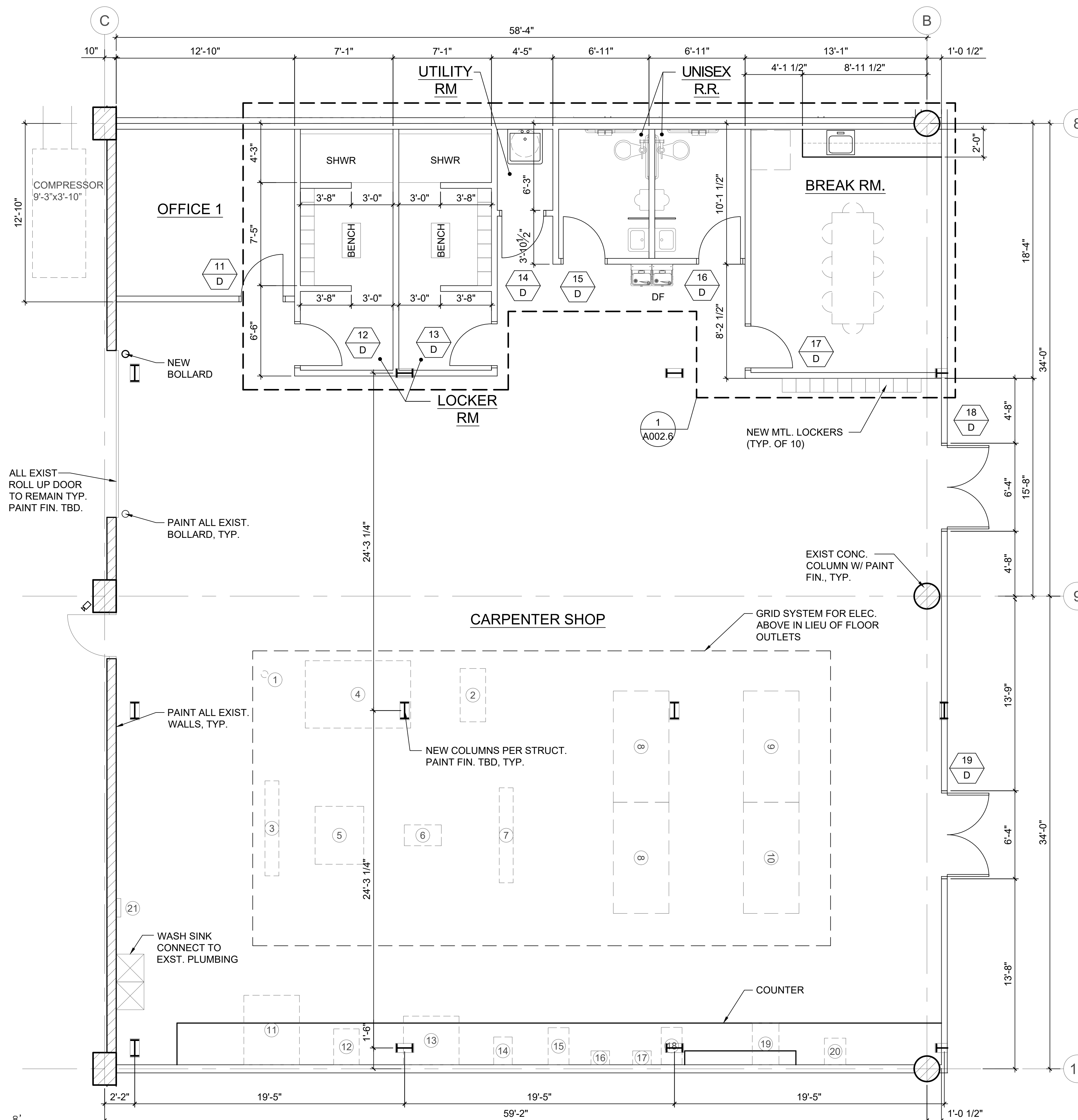
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SHEET :

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**A002.4**

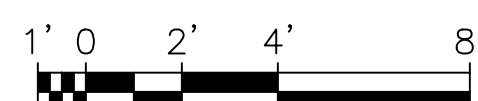


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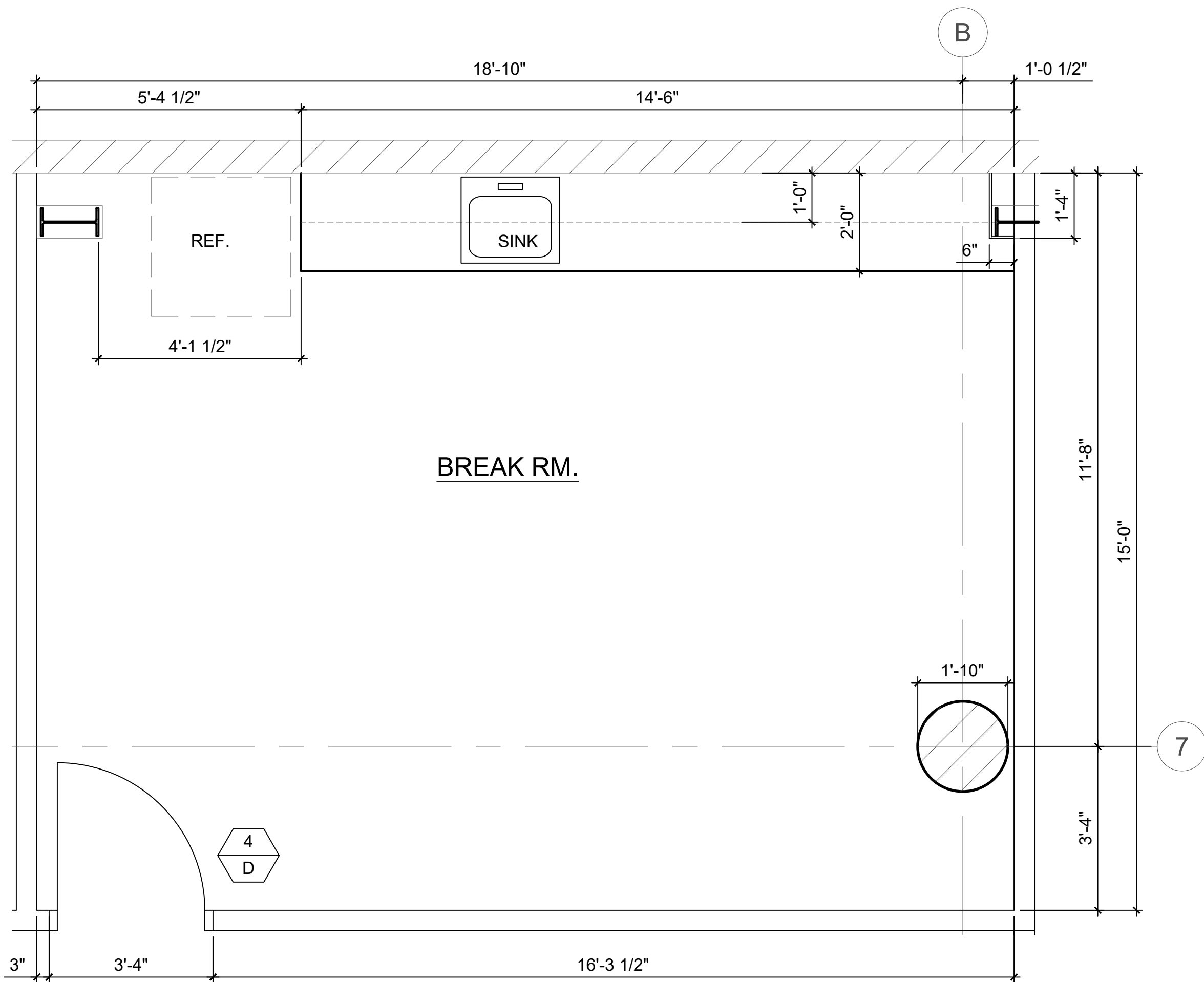
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17	6" BUFFER
18	16 1/2" DRILL PRESS
19	12" RADIAL ARM SAW
20	10" SLD. CHOPSAW
21	EMERGENCY EYE WASH PORTABLE, SELF CONTAINED

**1 CARPENTER SHOP PLAN**

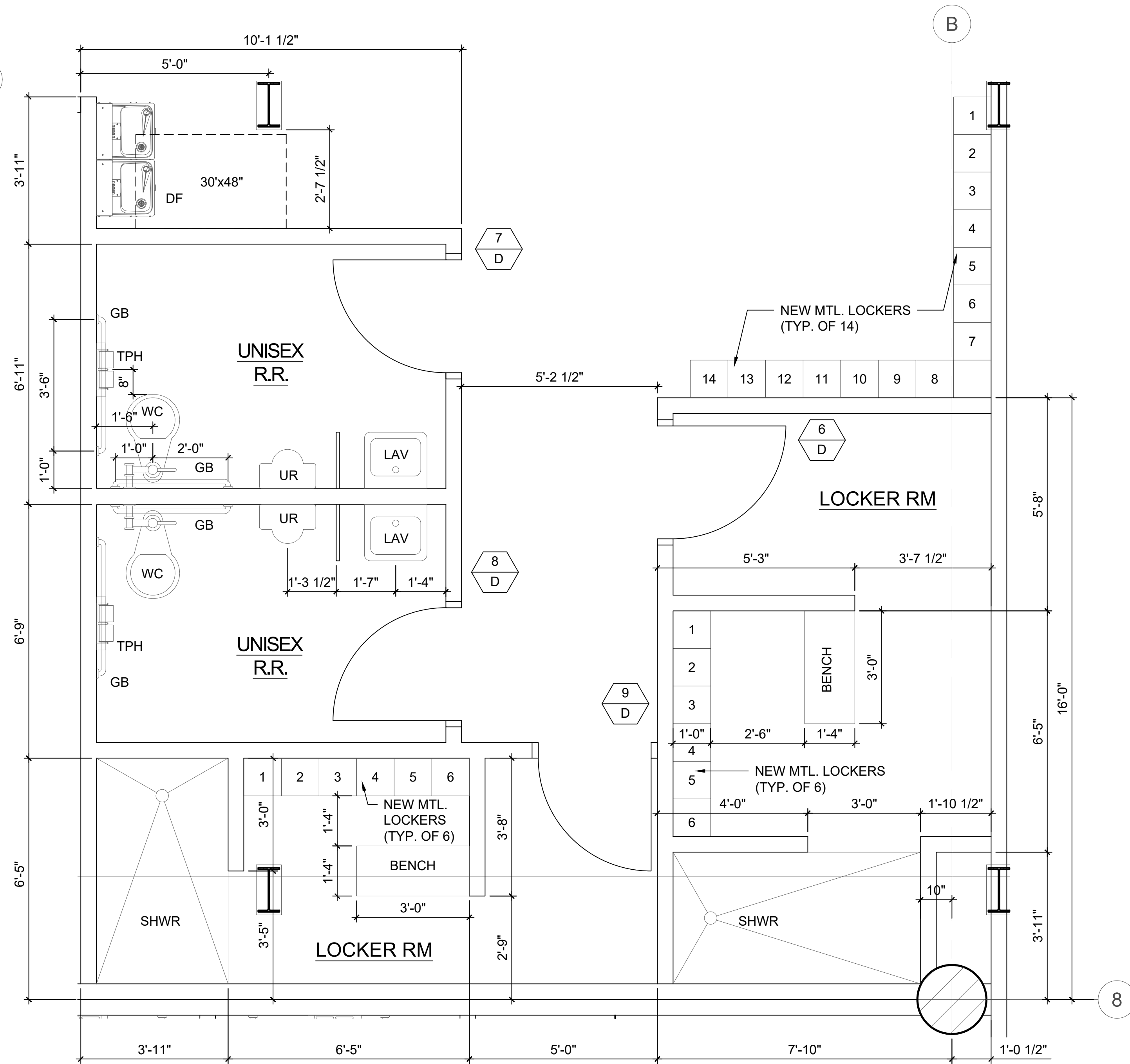
A-002.2 SCALE: 1/4" = 1'-0"



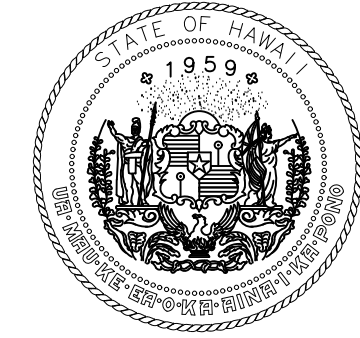
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**1 BREAK RM @ PAINT SHOP**  
 A-002.5 SCALE: 1/2" = 1'-0"  
 1' 0 2' 4'



**2 ENLARGED PLAN @ PAINT SHOP**  
 A-002.5 SCALE: 1/2" = 1'-0"  
 1' 0 2' 4'



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 STATE OF HAWAII



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 HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**ENLARGED PLAN @ PAINT SHOP**

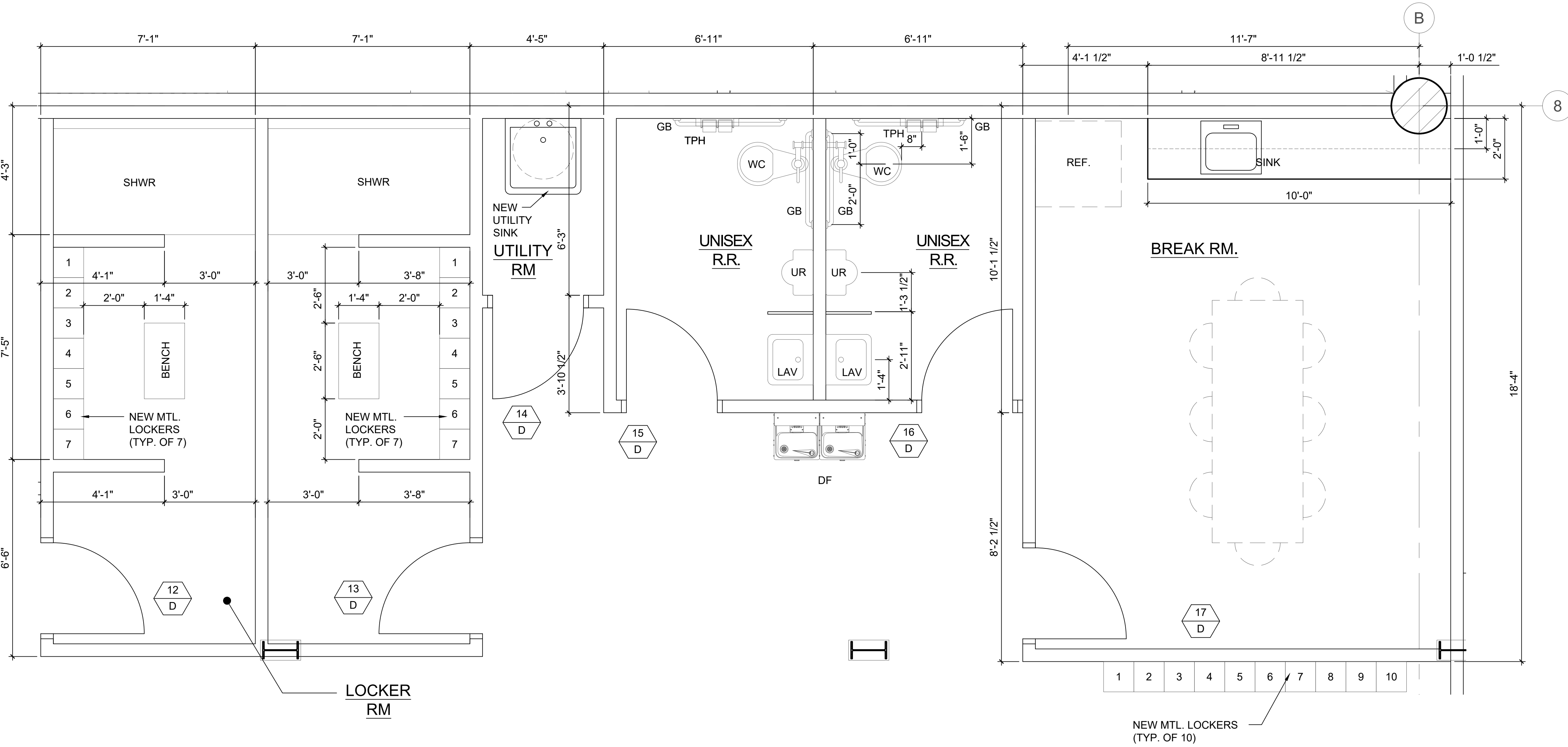
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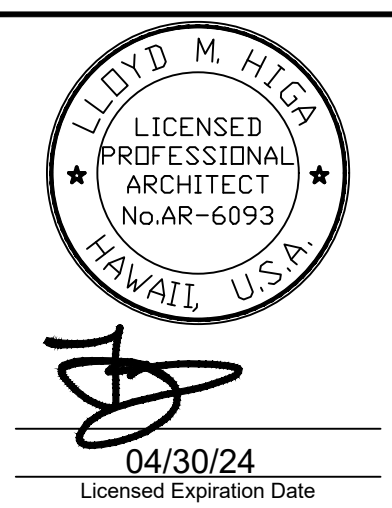
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1 ENLARGED PLAN @ CARPENTER SHOP  
 SCALE: 1/2" = 1'-0"  
 1' 0 2' 4'



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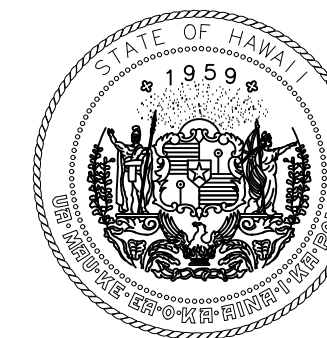
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**ENLARGED PLAN @ CARPENTER SHOP**

DATE :	05/10/23	DWG. NO.	<b>A002.6</b>
SHEET :	10 OF 84 SHEETS		

C:\USERS\NAKAZAWA\ONE\DRIVE - YAMASATO HIGA ARCHITECTS\2024-063 DOTA CONTINENTAL CARGO BLDG\CONTINENTAL WAREHOUSE - HNL\DRAWINGS\WORKING DWGS\010 A002.6\_ENLARGED PLAN.DWG

INTERIOR FINISH LIST

CODE	MATERIAL	MANUFACTURER	STYLE/PATTERN/COLOR	REMARKS
ACT-1	ACOUSTICAL CEILING PANEL	ARMSTRONG	STYLE: CALLA SIZE: 2X2 COLOR: WHITE GRID: 15/16" PRELUDE, SQUARE LAY-IN	CONF RMS, LOBBY, COMP LAB
CL-1	PAINT	SHERWIN WILLIAMS	COLOR: PURE WHITE SHEEN FLAT	GYP BD CEILINGS/SOFFITS
VT-1	VINYL TILE	MOHAWK	STYLE: PREMIUM WOOD, LIVING LOCAL (C0194) COLOR: TAN TONE SIZE: 8 X 52	HALLWAYS, SUPPLY RM, IT RM, BREAK RM
VT-2	VINYL TILE	MOHAWK	STYLE: STONEWORK, LIVING LOCAL (C0179) COLOR: IGNEOUS 950 SIZE: 12 X 24	LOCKER RMS
CPT-1	CARPET TILE	OBEX	STYLE: CUT/CROSS COLOR: DARK GREY	MAIN ENTRY ALCOVE, BACK HALLWAY
CPT-2	CARPET TILE	OBEX	STYLE: CUT/CROSS COLOR: BLUE	LOBBY
CPT-3	CARPET TILE	MOHAWK	STYLE: ENLIVEDDED, ART EXPOSURE (BT455) COLOR: ECRU, 958 SIZE: 24 X 24	BADGING, COMPUTER LAB, CONF ROOMS
CPT-4	CARPET TILE	MOHAWK	STYLE: cHILLD, RELAXING FLOORS (GT424) COLOR: FOCUS, 829 SIZE: 12 X 36	OFFICES, WELLNESS ROOM
CS-1	CONCRETE SEALER	SCOFIELD	STYLE: SCOFIELD FORMULA ONE LITHIUM CONCRETE DENSIFIER MP	BACK HALLWAY TO RR'S
B-1	RUBBER BASE 4"	MOHAWK	COLOR: AIRCRAFT CARRIER, 073	LOBBY AREA, BADGING AREA, SUPPLY RM, HALLWAY, BREAK, WELLNESS, CONF RMS, COMP LAB
B-2	RUBBER BASE 4"	MOHAWK	COLOR: DOVE, 053	OFFICES
PL-1	PLASTIC LAMINATE	WILSONART	COLOR: NEO WALNUT, #7991 FINISH: 38 FINE VELVET	LOBBY RECEPTION COUNTER PANELS
PL-2	PLASTIC LAMINATE	WILSONART	COLOR: TAILORED LINEN, #4992 FINISH: 38 FINE VELVET	BREAK RM, WELLNESS RM
PT-1	PAINT	SHERWIN WILLIAMS	COLOR: CEILING BRIGHT WHITE, SW7007 SHEEN: FLAT	BYP BD CEILINGS/SOFFITS THROUGHOUT
PT-2	PAINT	SHERWIN WILLIAMS	COLOR: ICE CUBE, SW6252 SHEEN: SATEEN	LOBBY, BADGING AREA WALLS, CONF RMS, COMP LAB., HALLWAYS
PT-3	PAINT	SHERWIN WILLIAMS	COLOR: MEDITATIVE, SW6227 SHEEN: SATEEN	WELLNESS RM
PT-4	PAINT	SHERWIN WILLIAMS	COLOR: SILVERPOINTE, SW7653 SHEEN: SATEEN	OFFICE
PT-5	PAINT	SHERWIN WILLIAMS	COLOR: NEBULOUSE WHITE, SW7063 SHEEN: SATEEN,(SEM-GLOSS AT BREAK/SHOWER)	BREAK RM, LOCKER RMS, SHOWER RM
T-1	PORCELAIN TILE	DALTILE	STYLE: STONE ATACHE COLOR: EMINENCE GREY SIZE: 24X48 FINISH: MATTE	SHOWER ROOM FLOOR
T-2	PORCELAIN TILE	DALTILE	STYLE: STONE ATACHE COLOR: EMINENCE GREY SIZE: 12X24 FINISH: MATTE	SHOWER STALL WALLS/WAINSCOT
T-3	PORCELAIN TILE	DALTILE	STYLE: STONE ATACHE COLOR: EMINENCE GREY SIZE: ABSTRACT FINISH: MATTE	SHOWER STALL FLOOR
SS-1	SOLID SURFACE	CORIAN	COLOR: RAIN CLOUD	LOBBY RECEPTION COUNTER
SS-2	SOLID SURFACE	CORIAN	COLOR: PEBBLE TERRAZZO	BREAK RM, WELLNESS RM COUNTERS
SS-3	SOLID SURFACE	CORIAN	COLOR: DOVE	SHOWER RM BENCH
SP-1	SOLID POLYMER RESIN PANEL	3-FORM	STYLE: SAVU COLOR: OFF SHORE SIZE: 1/4" MOUNT: STAND OFFS	LOBBY RECEPTION COUNTER FRONT PANEL



Airports Division  
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STATE OF HAWAII



LLOYD M. HIGA  
LICENSED PROFESSIONAL ARCHITECT  
No. AR-6093  
HAWAII, U.S.A.  
04/30/24  
Licensed Expiration Date

This work was prepared by me or under my supervision.

DSGN.	DRWN.	CHKD.	APPD.
JM	KN	JM	

NO.	DATE	REVISIONS

DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

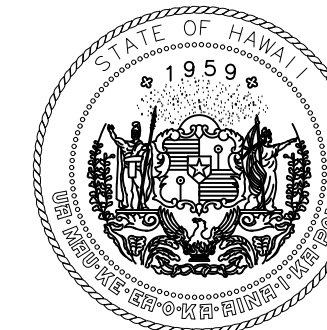
PROJECT NO.:

**CO1325-33**

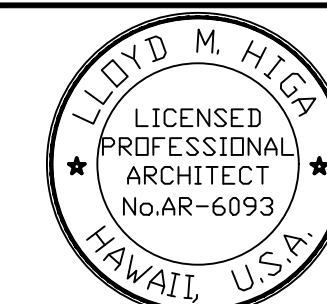
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**INTERIOR FINISH SCHEDULE**

DATE :	DWG. NO.
05/10/23	A002.7
SHEET :	
11 OF 84 SHEETS	



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STATE OF HAWAII



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TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**EXISTING/DEMOLITION  
REFLECTED  
CEILING PLAN**

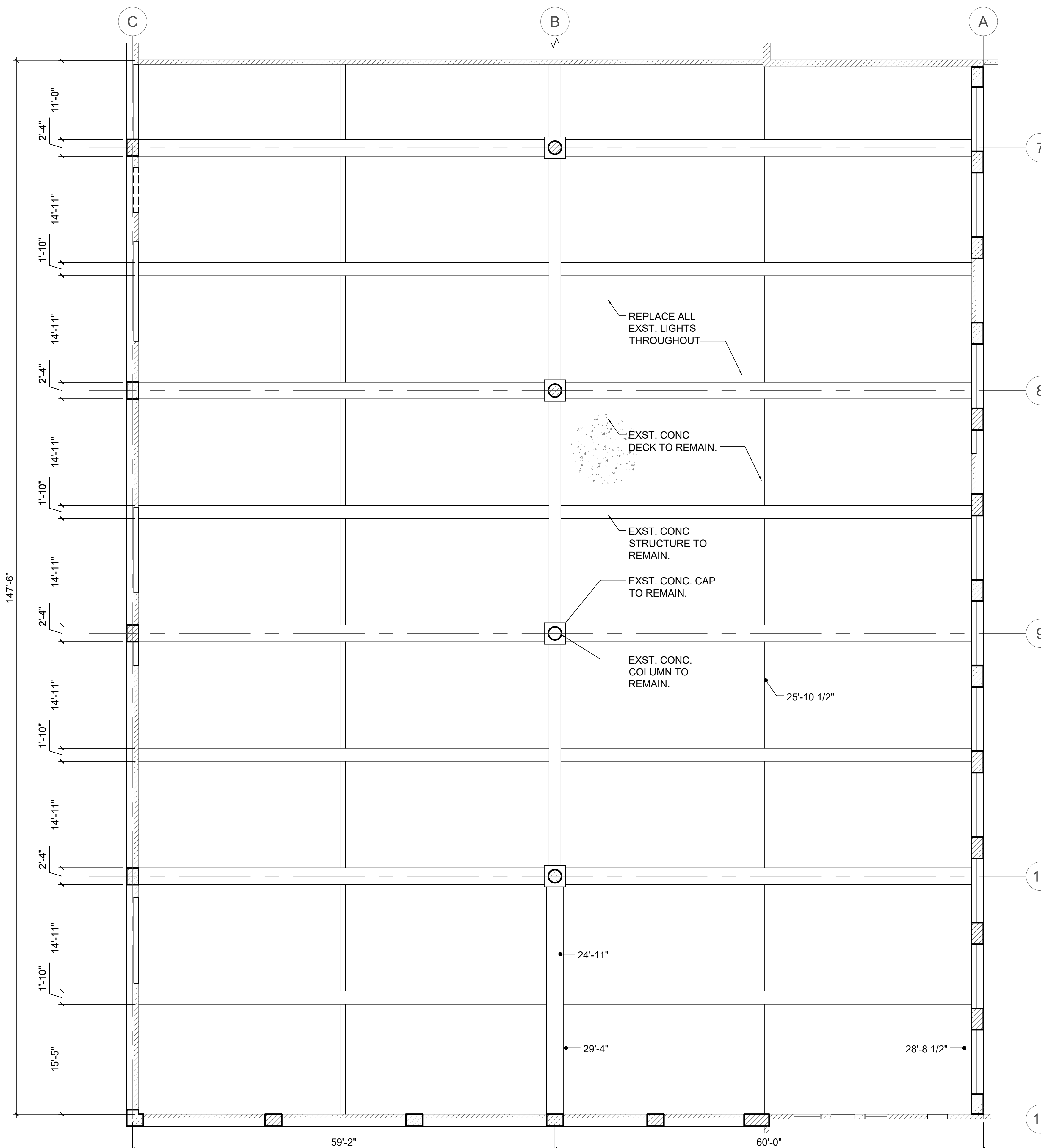
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**05/10/23**

SHEET :  
**A003.1**

12 OF 84 SHEETS

DWG. NO.

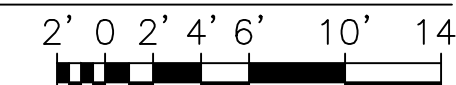
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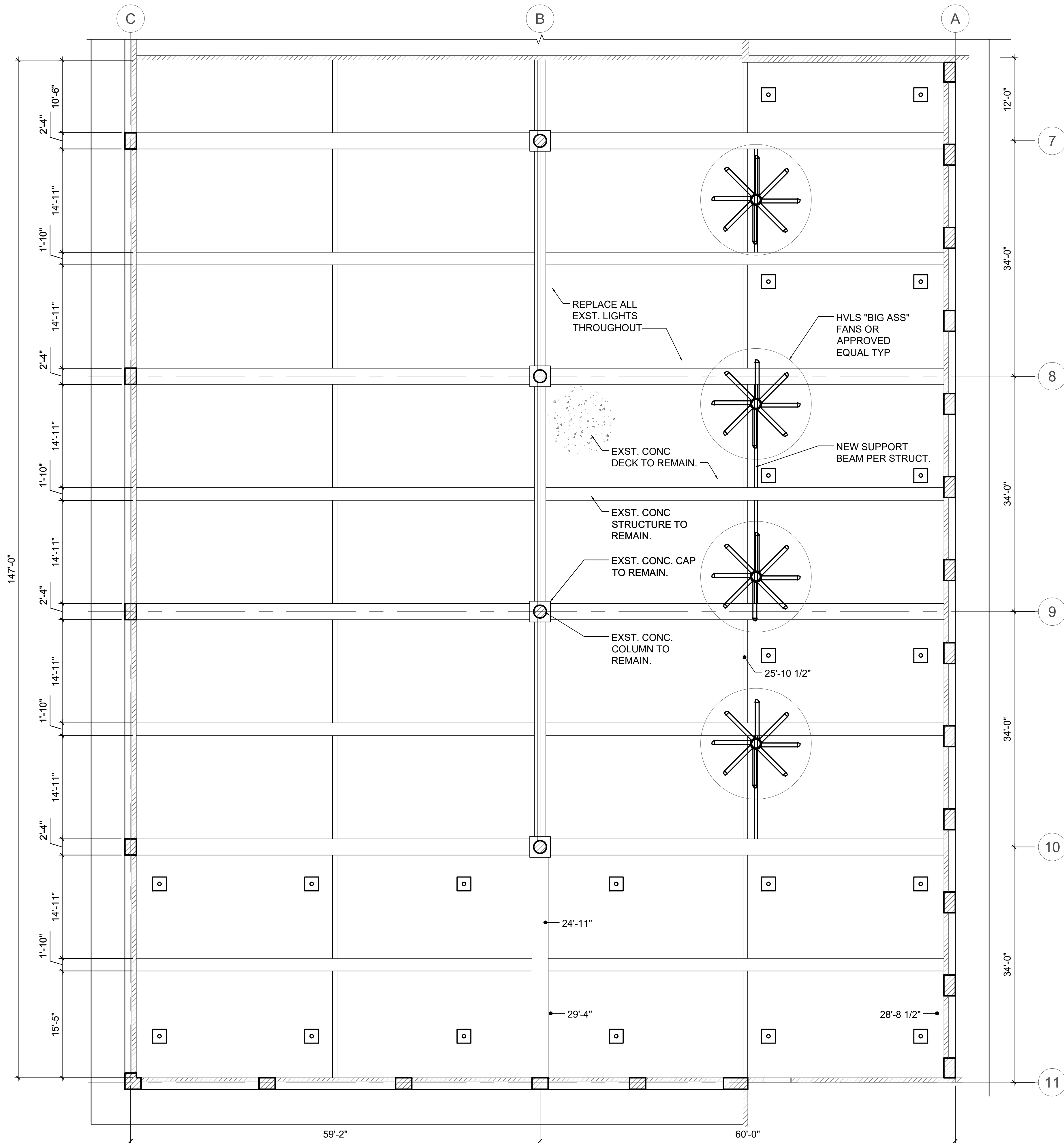
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REFLECTED CEILING PLAN**

1  
A-003.1

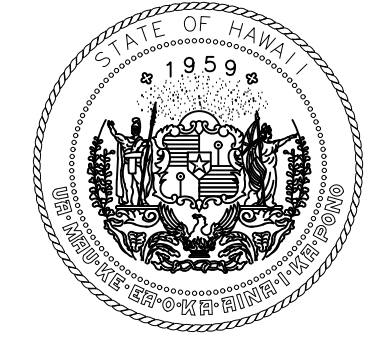
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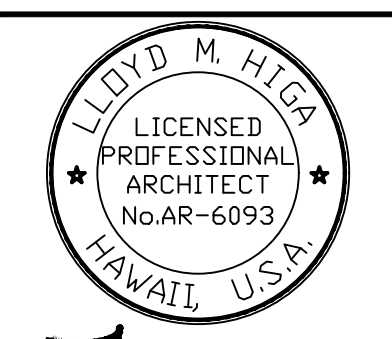
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**1**  
**RENOVATED REFLECTED CEILING PLAN**  
 SCALE: 1/8" = 1'-0"  
 2' 0 2' 4' 6' 10' 14'



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**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
 DANIEL K. INOUE INTERNATIONAL AIRPORT  
 HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

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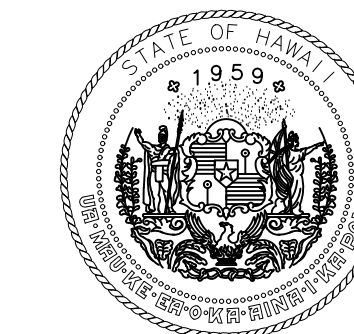
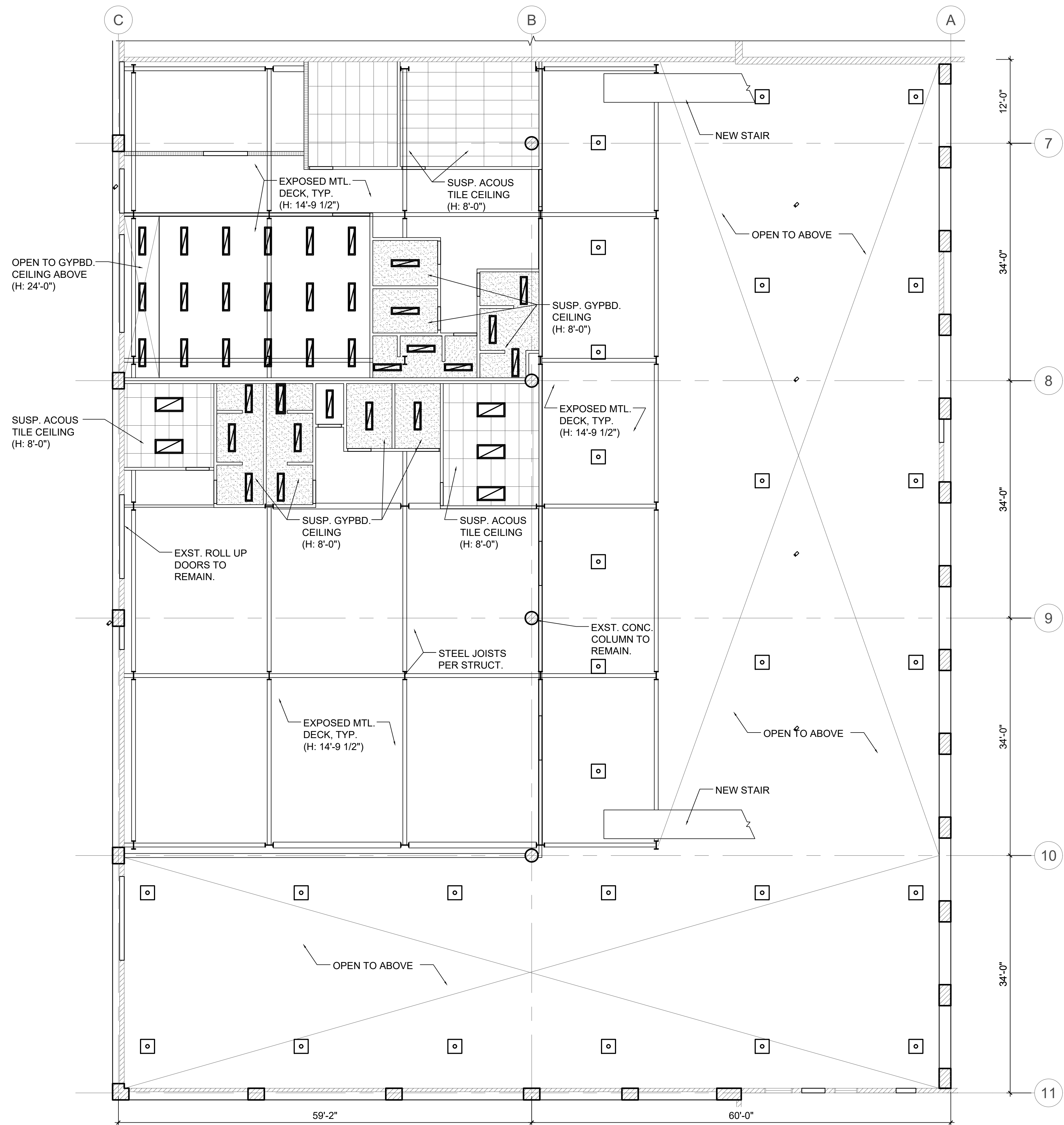
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SHEET : 13 OF 84 SHEETS

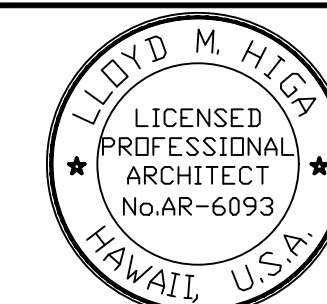
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**A004.1**

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04/30/24  
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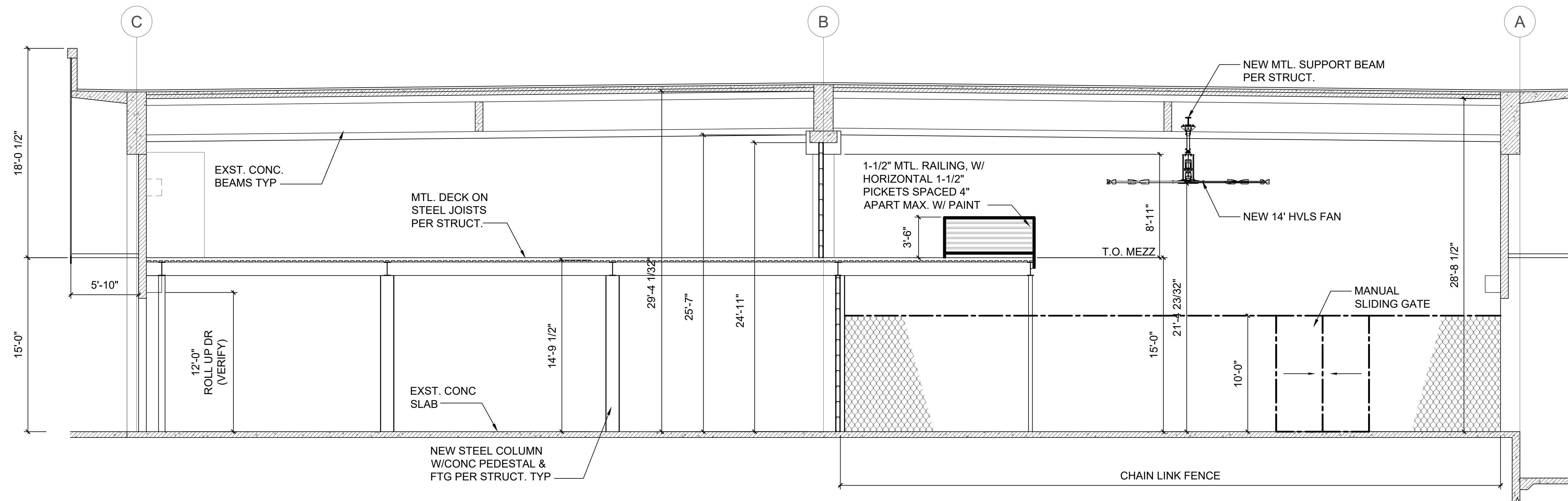
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**CO1325-33**

SHEET TITLE:  
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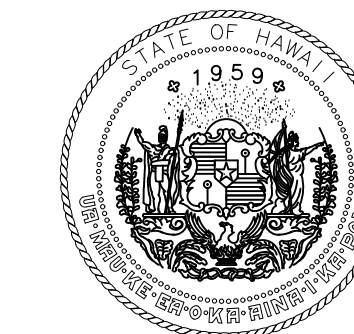
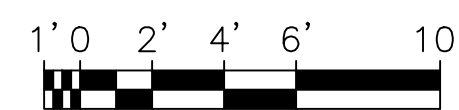
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05/10/23	<b>A004.2</b>
SHEET :	
14 OF 84 SHEETS	

**1 REFLECTED CEILING PLAN**  
SCALE: 1/8" = 1'-0"

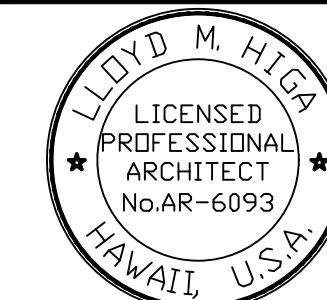
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**1** CROSS SECTION  
A-004 SCALE: 3/16"= 1'-0"



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DATE

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HONOLULU, OAHU, HAWAII

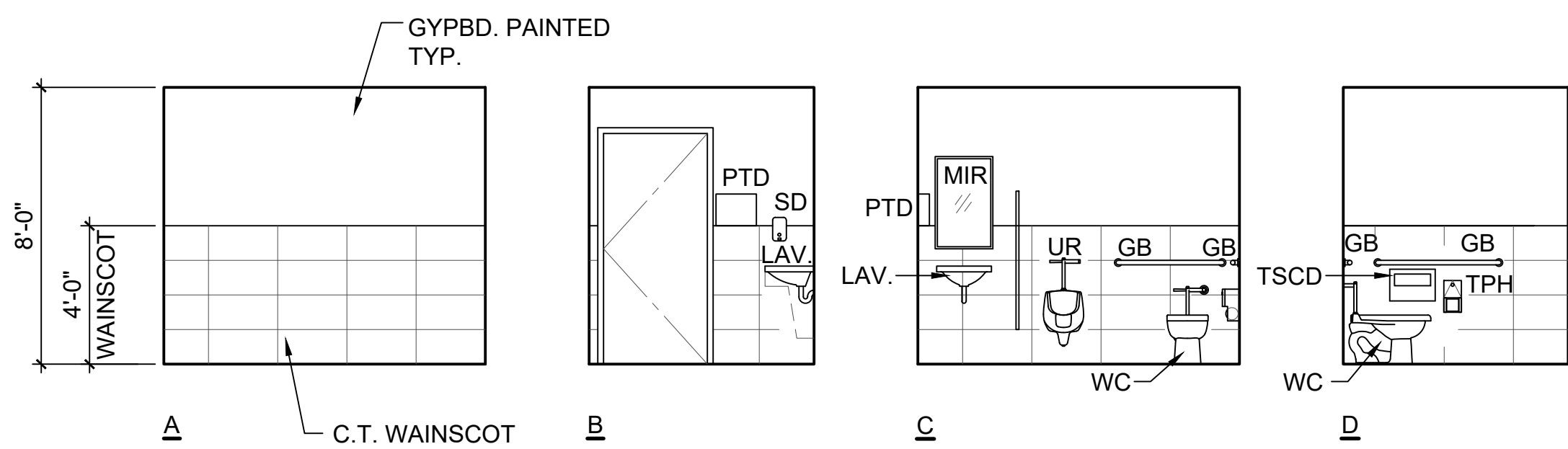
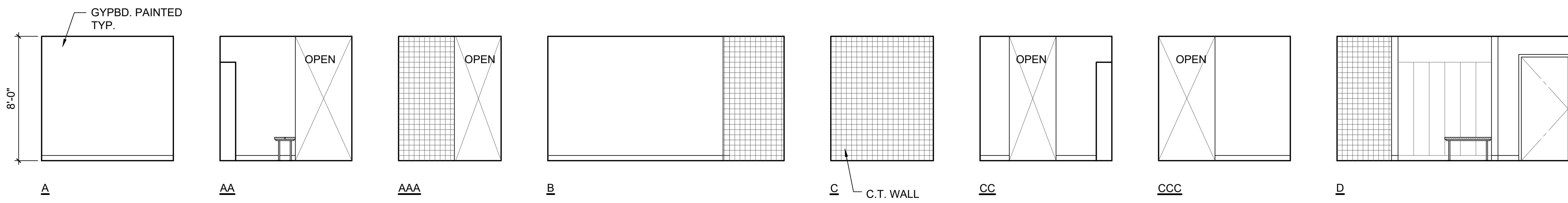
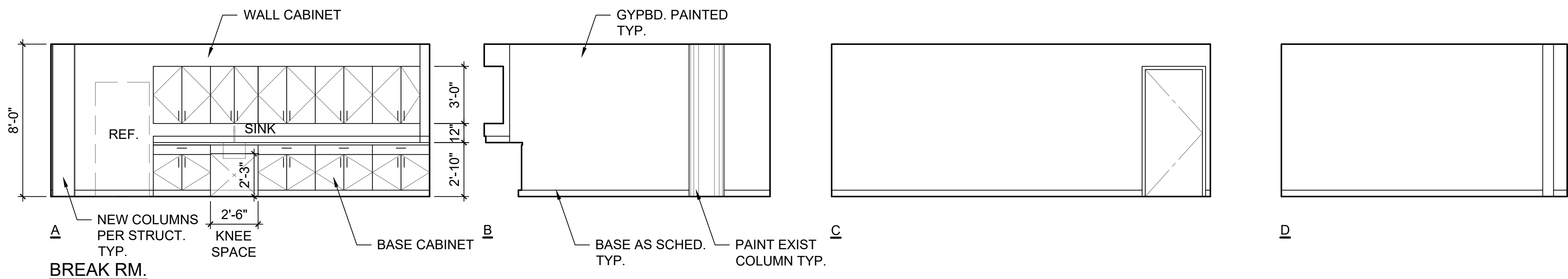
PROJECT NO.:

**CO1325-33**

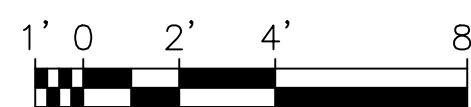
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**BUILDING SECTIONS**

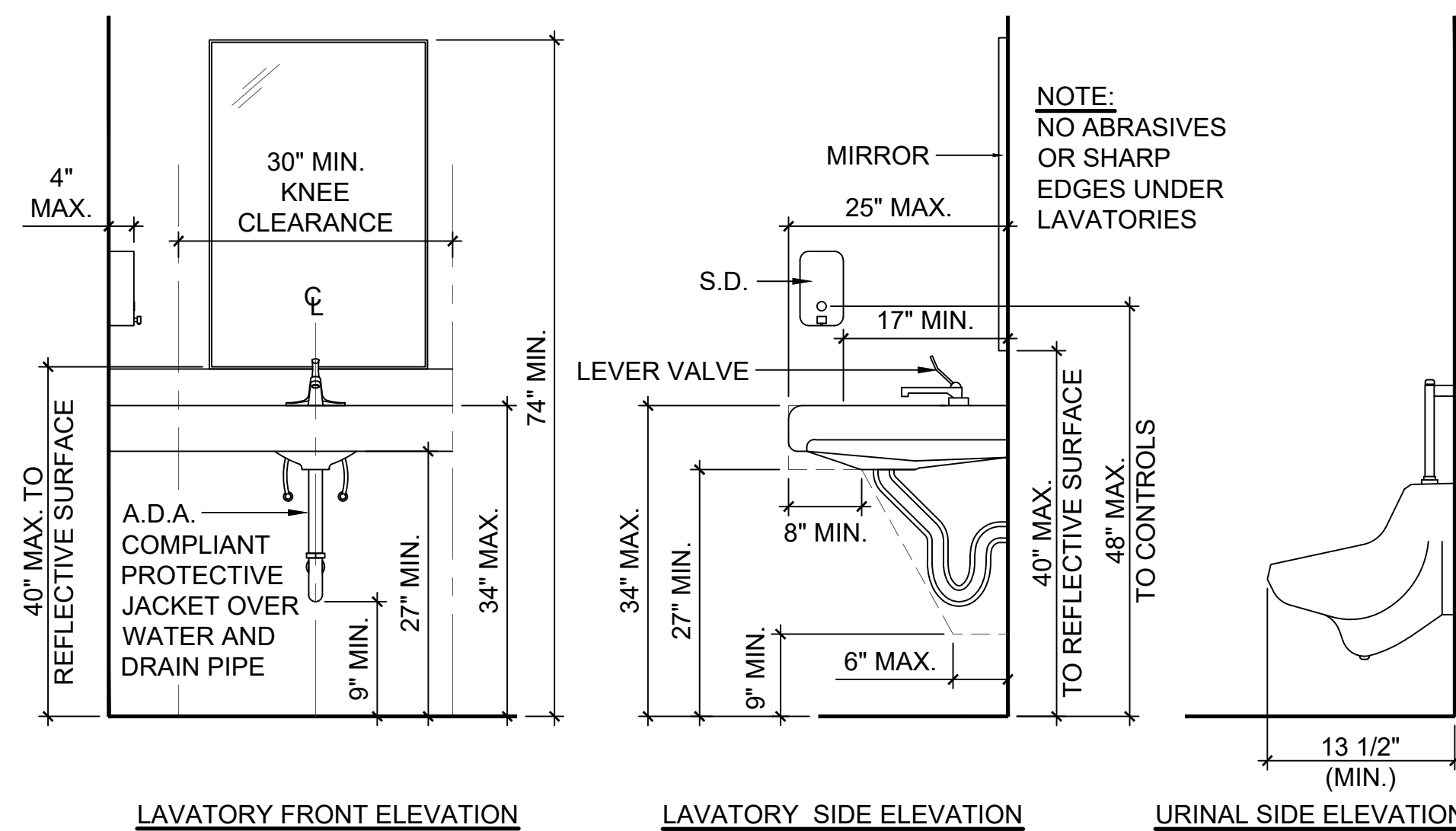
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05/10/23	<b>A005</b>
SHEET :	
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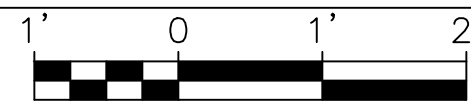
**1 INTERIOR ELEVATION @ PAINT SHOP**  
 A-006.1 SCALE: 1/4" = 1'-0"



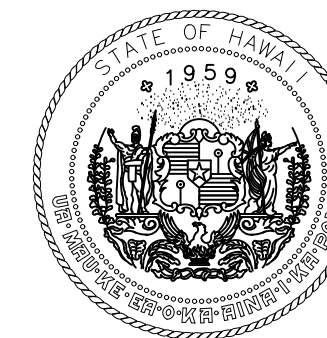
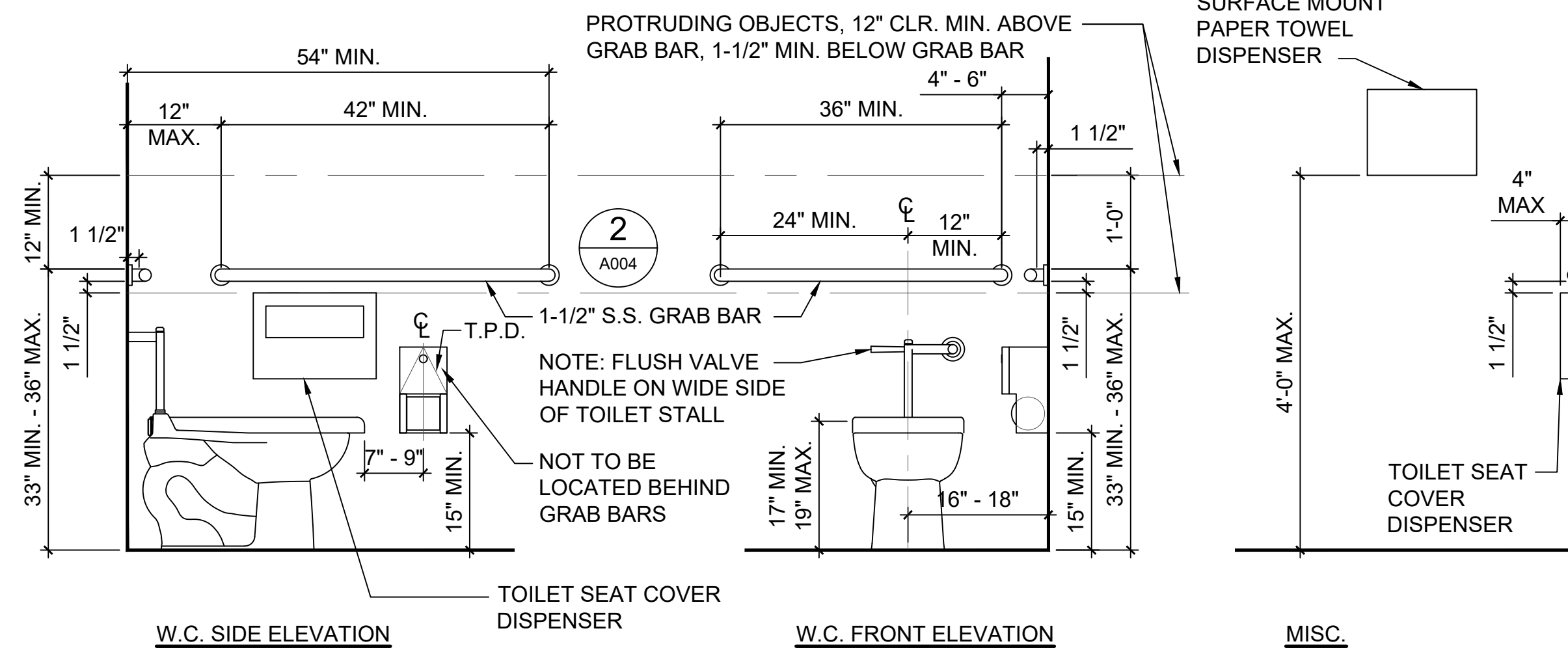
- NOTES:**
- SEE 2/A006.1 FOR ACCESSORY MOUNTING HEIGHT DETAIL
  - WATER CLOSET SHALL BE ELONGATED TYPES WITH OPEN FRONT SEAT



**2 MOUNTING HEIGHT DETAIL**  
 A-006.1 SCALE: 3/4" = 1'-0"



- NOTE:**  
 CONTRACTOR TO VERIFY AND COORDINATE CONFLICTS IN HEIGHTS WITH SWITCHES, ACCESSORIES AND WAINSCOT PRIOR TO INSTALLATION.



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 LICENSED PROFESSIONAL ARCHITECT  
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**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
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 HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**INTERIOR ELEVATIONS @ PAINT SHOP, MOUNTING HEIGHT DETAIL**

DATE :

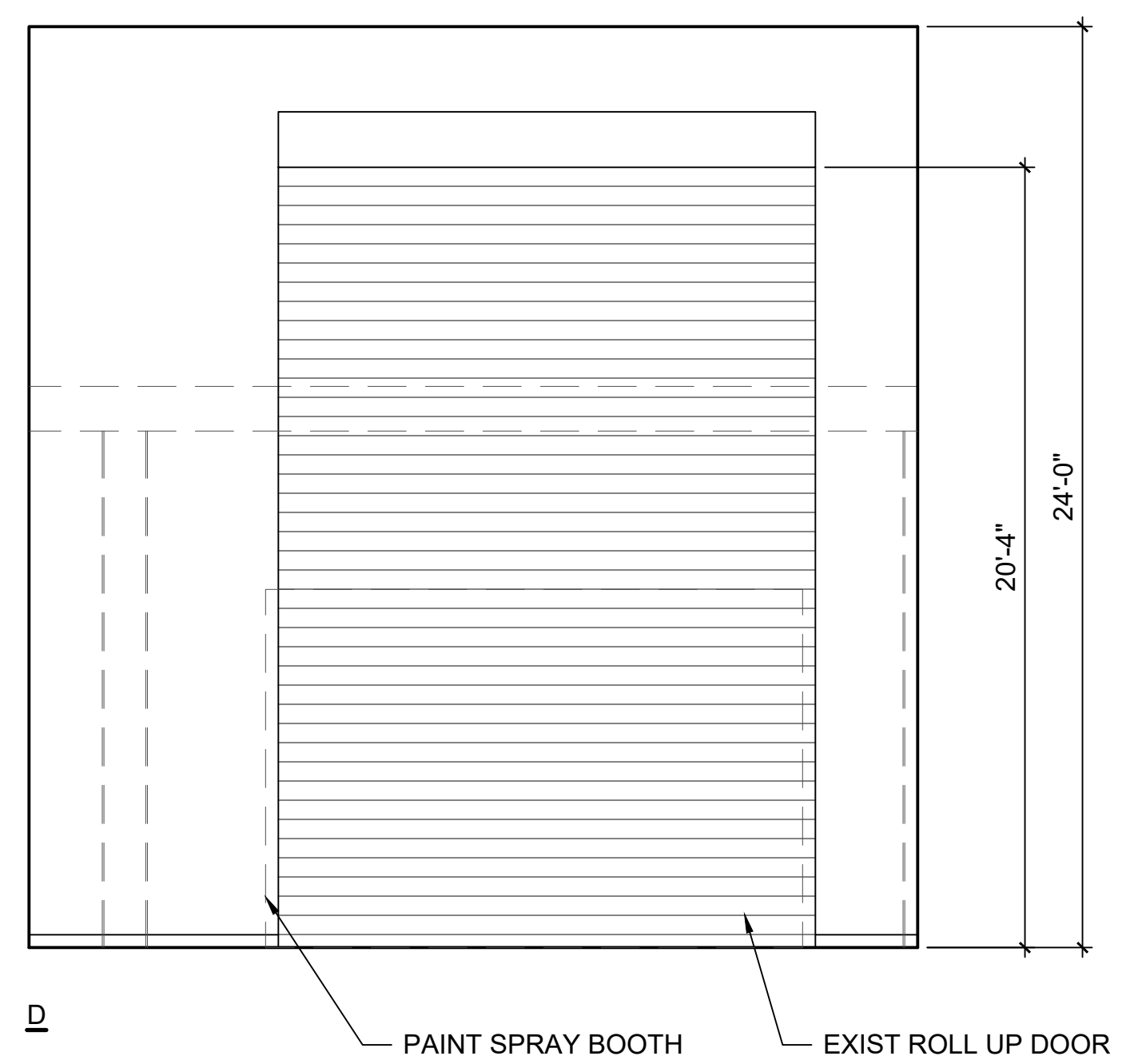
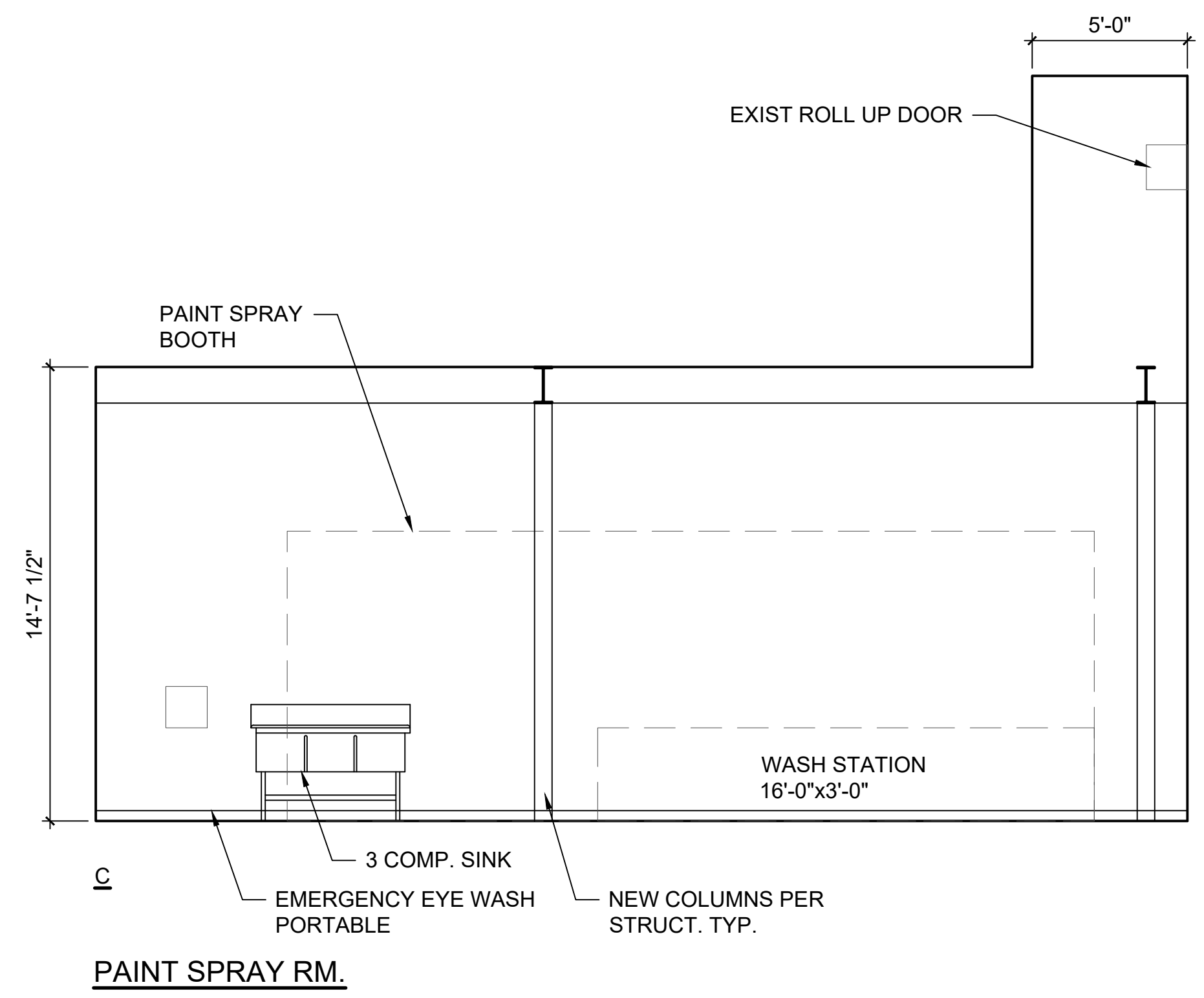
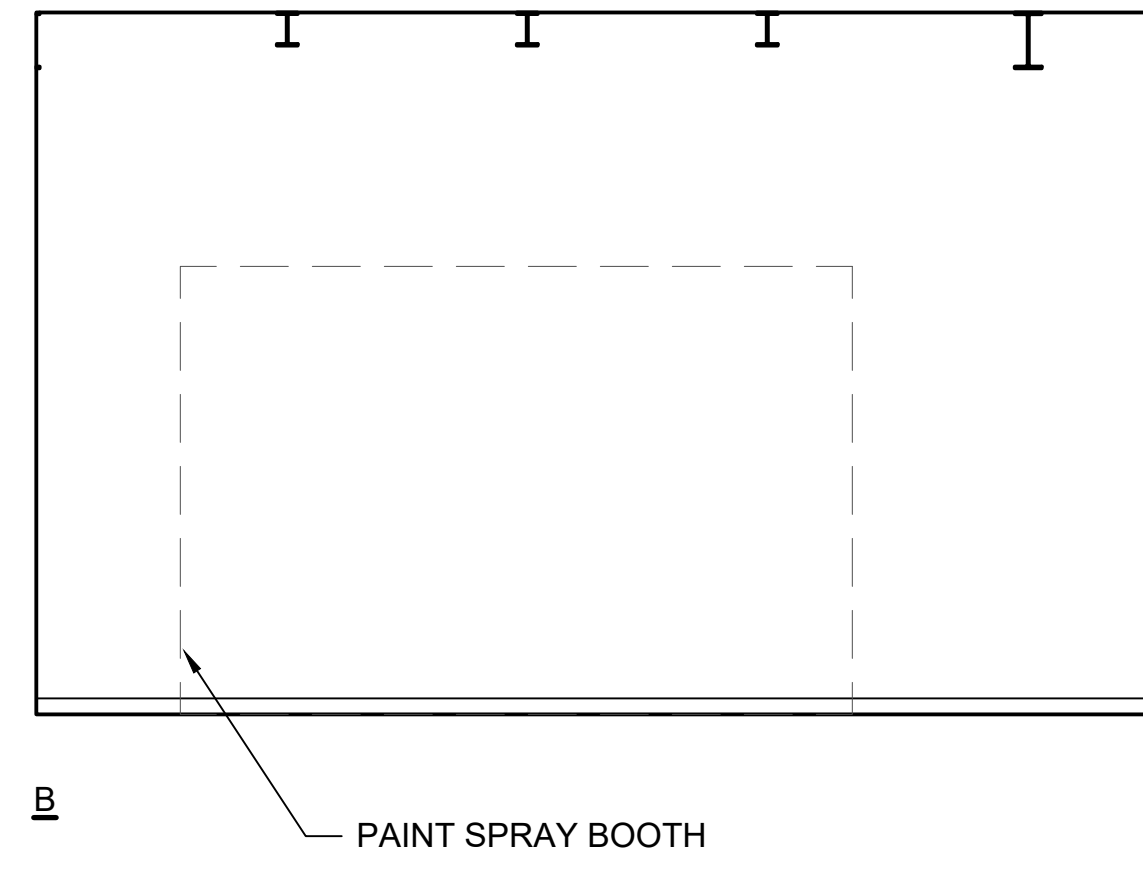
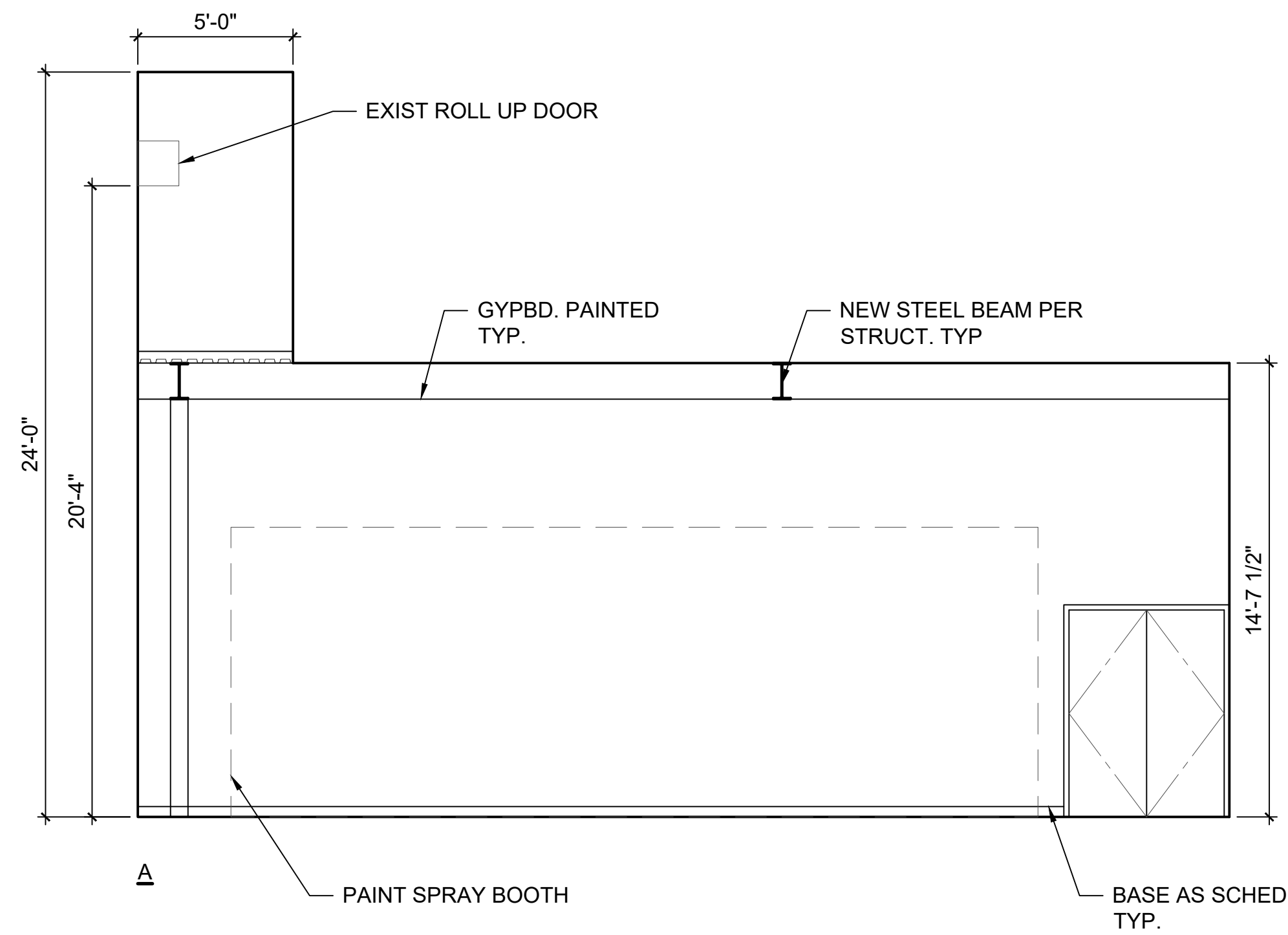
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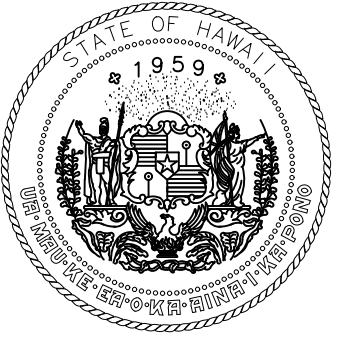
16 OF 84 SHEETS

DWG. NO.

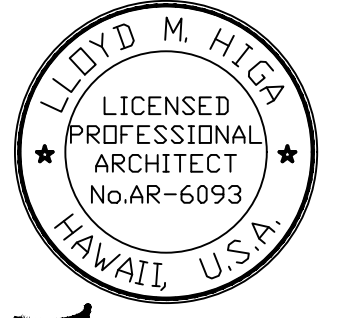
**A006.1**



1 INTERIOR ELEVATION @ PAINT SPRAY ROOM  
 A-006.2 SCALE: 1/4" = 1'-0"  
 1' 0' 2' 4' 8'



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PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**INTERIOR ELEVATIONS @ PAINT SHOP,**

DATE : 05/10/23

SHEET : A006.2

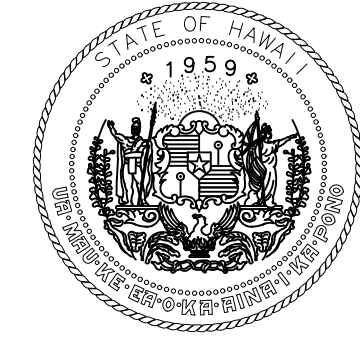
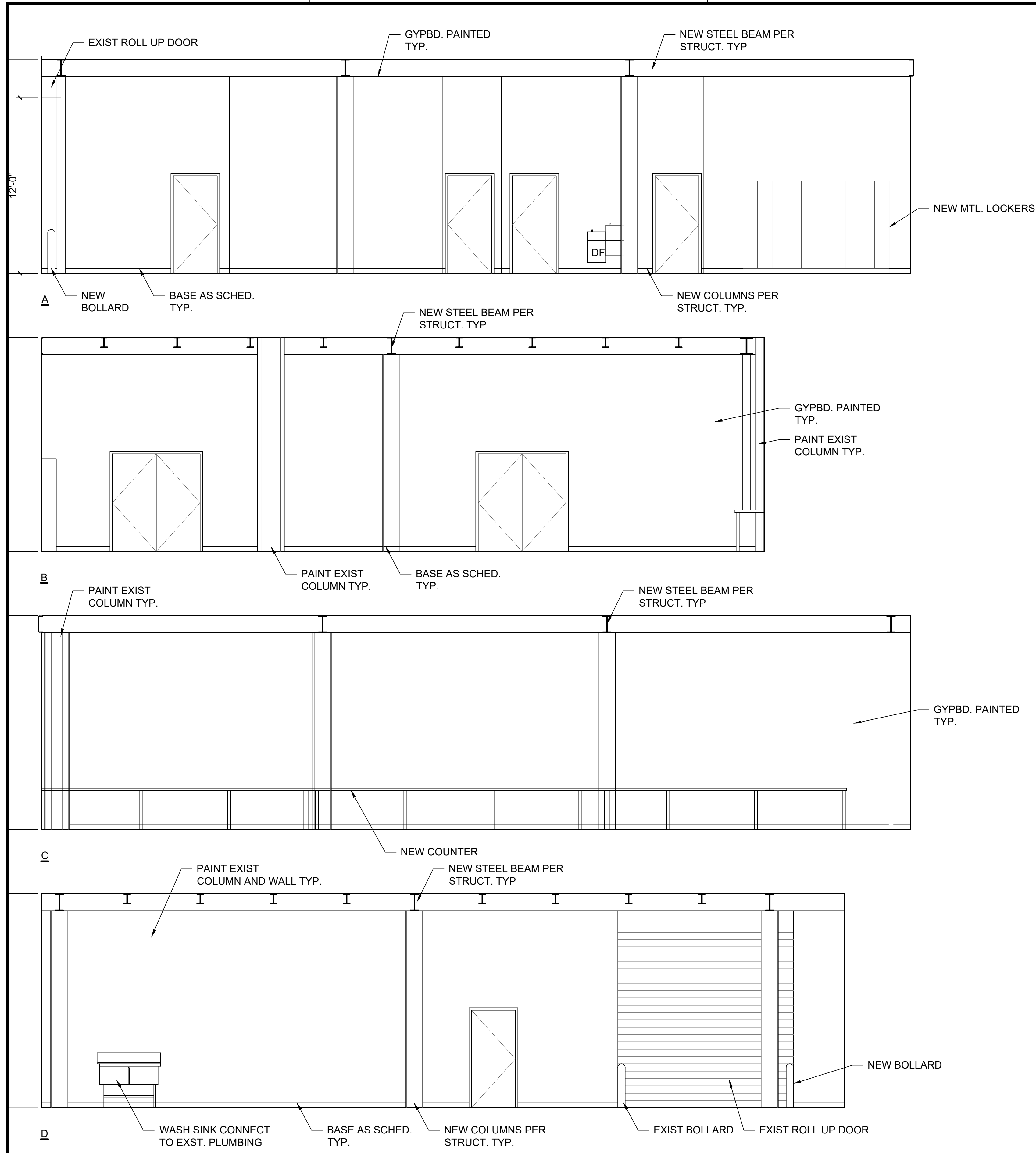
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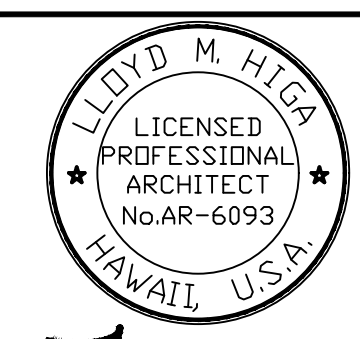
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HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**INTERIOR ELEVATIONS @ CARPENTER SHOP**

DATE :

05/10/23

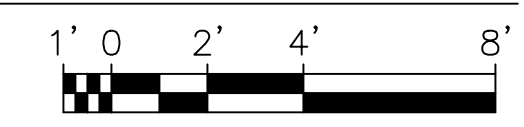
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19 OF 84 SHEETS

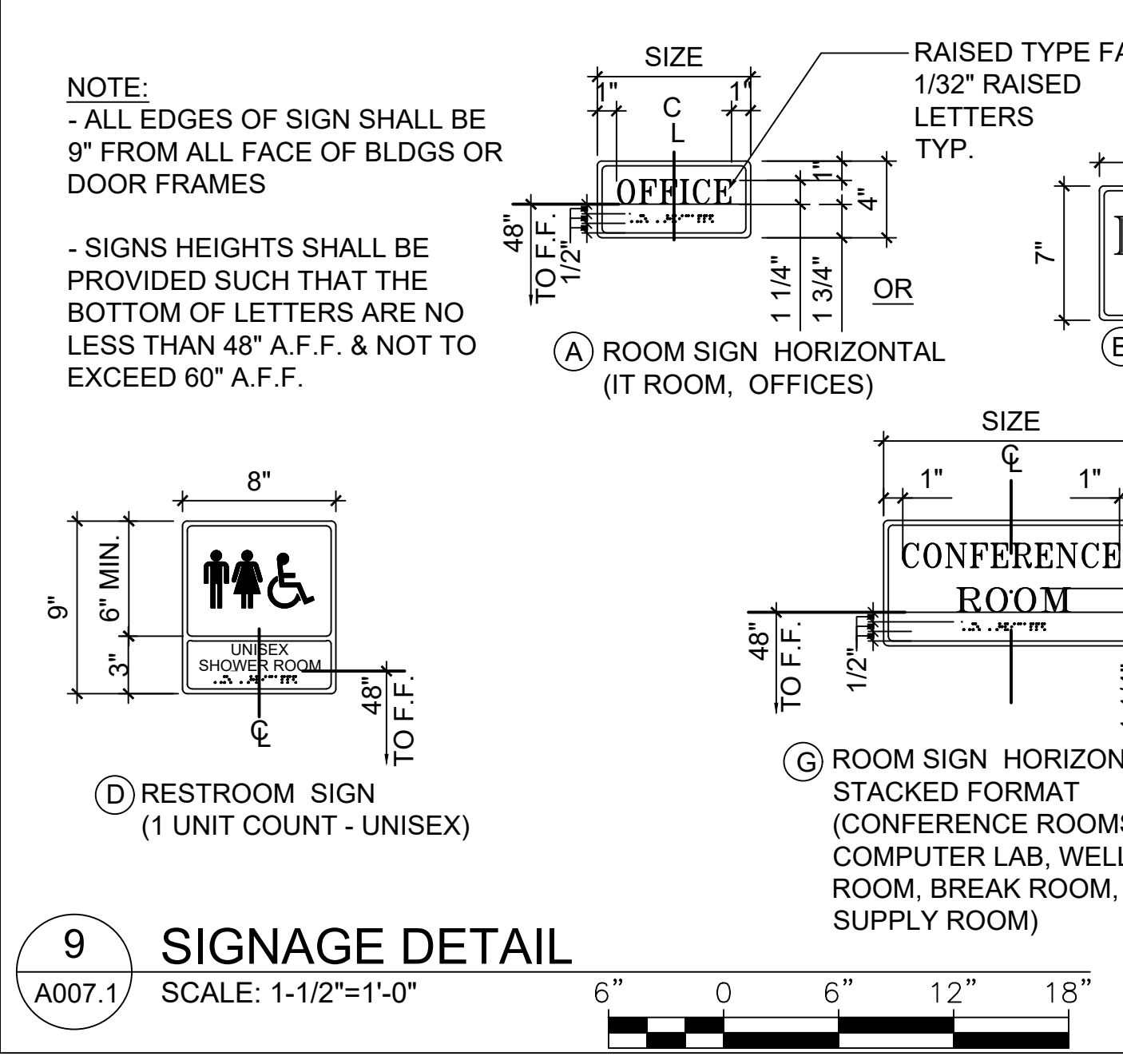
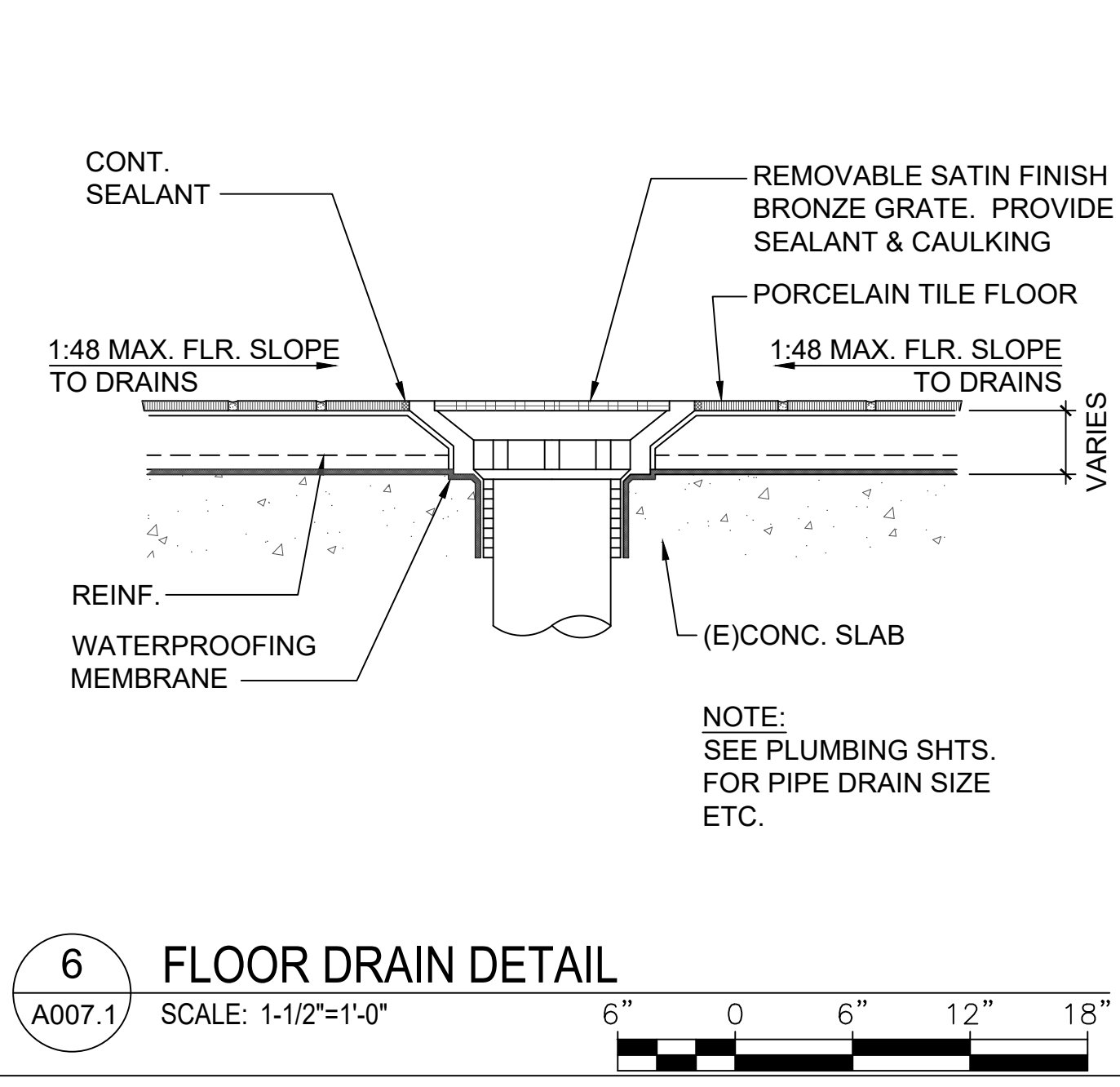
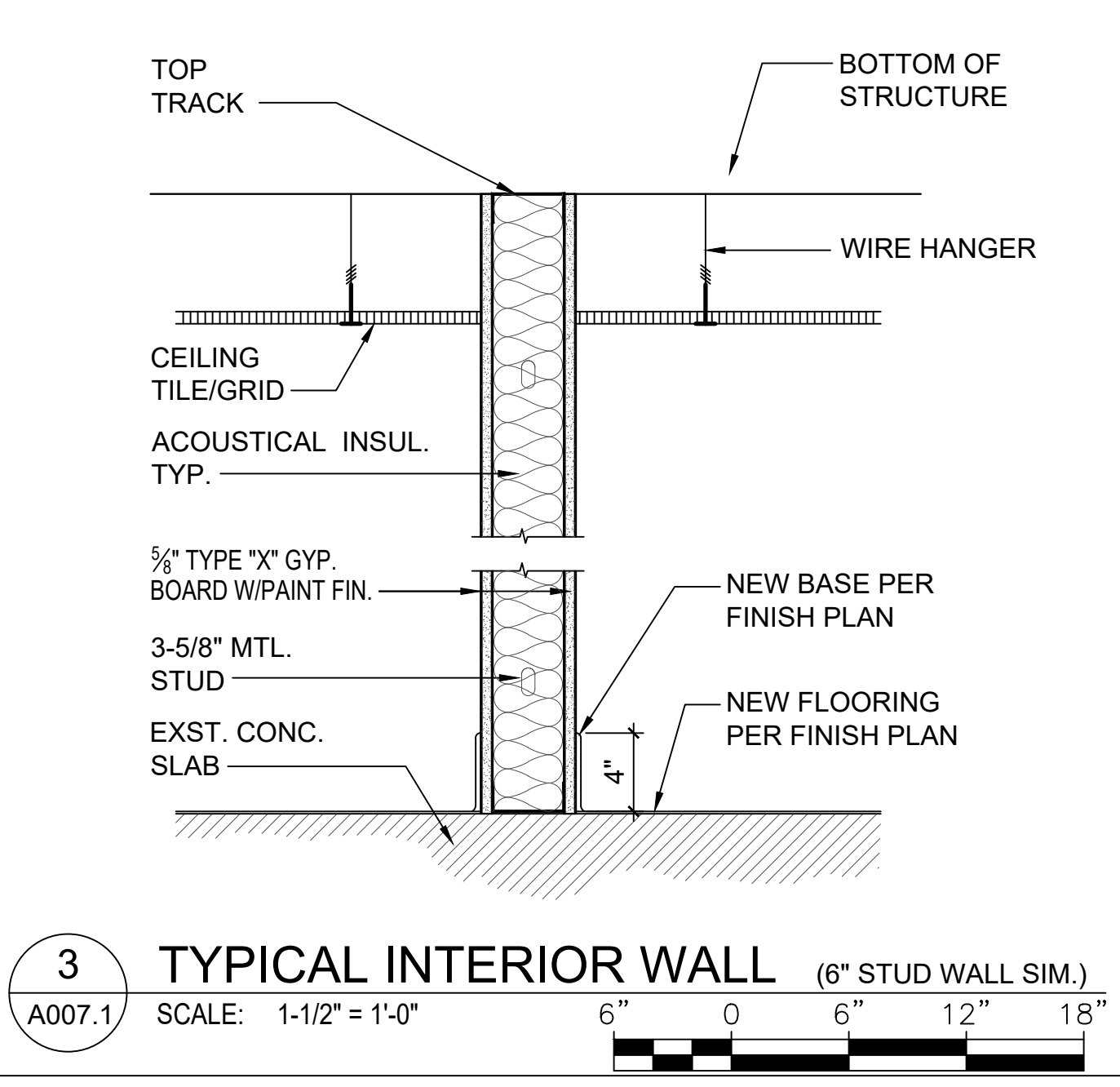
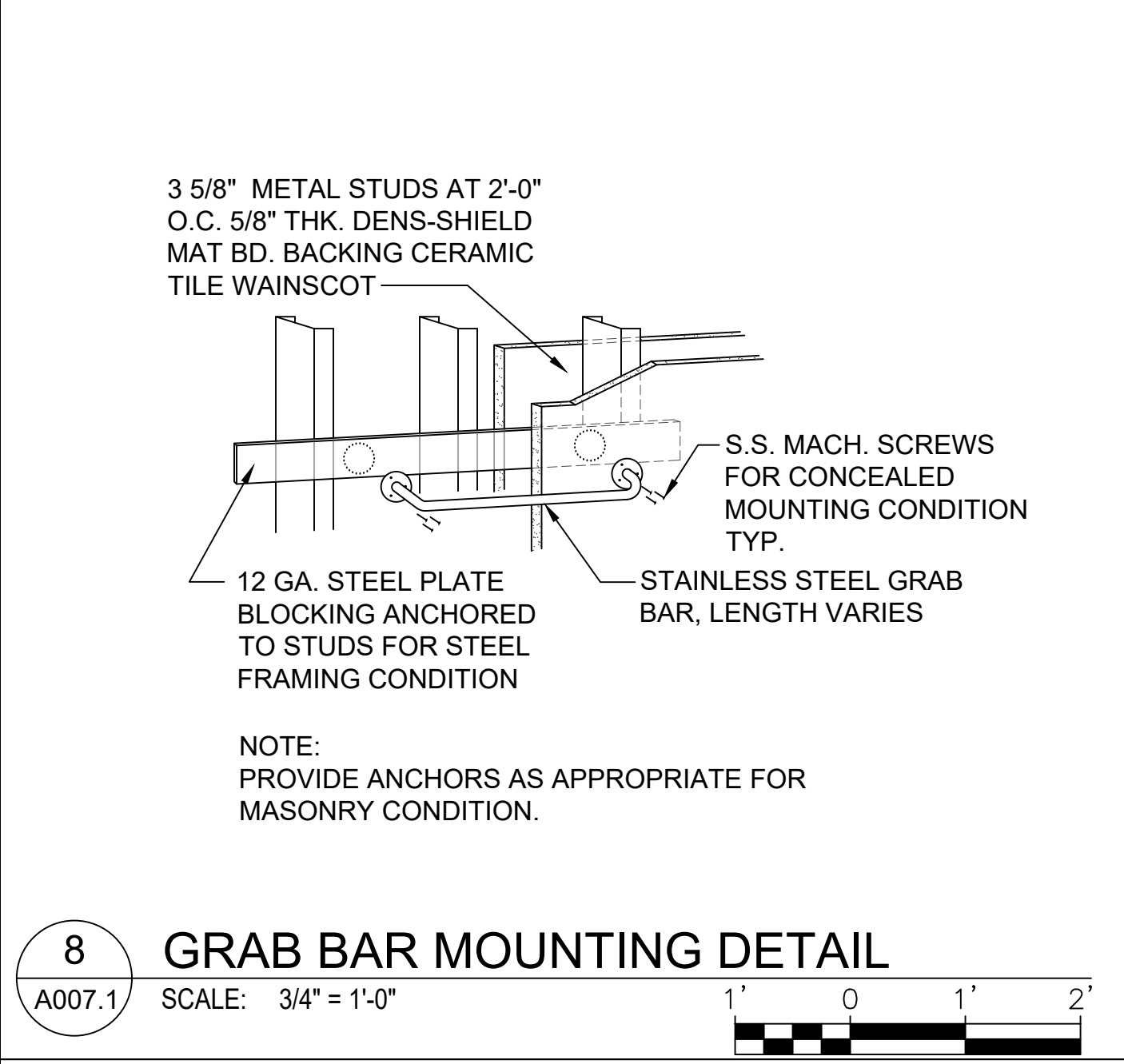
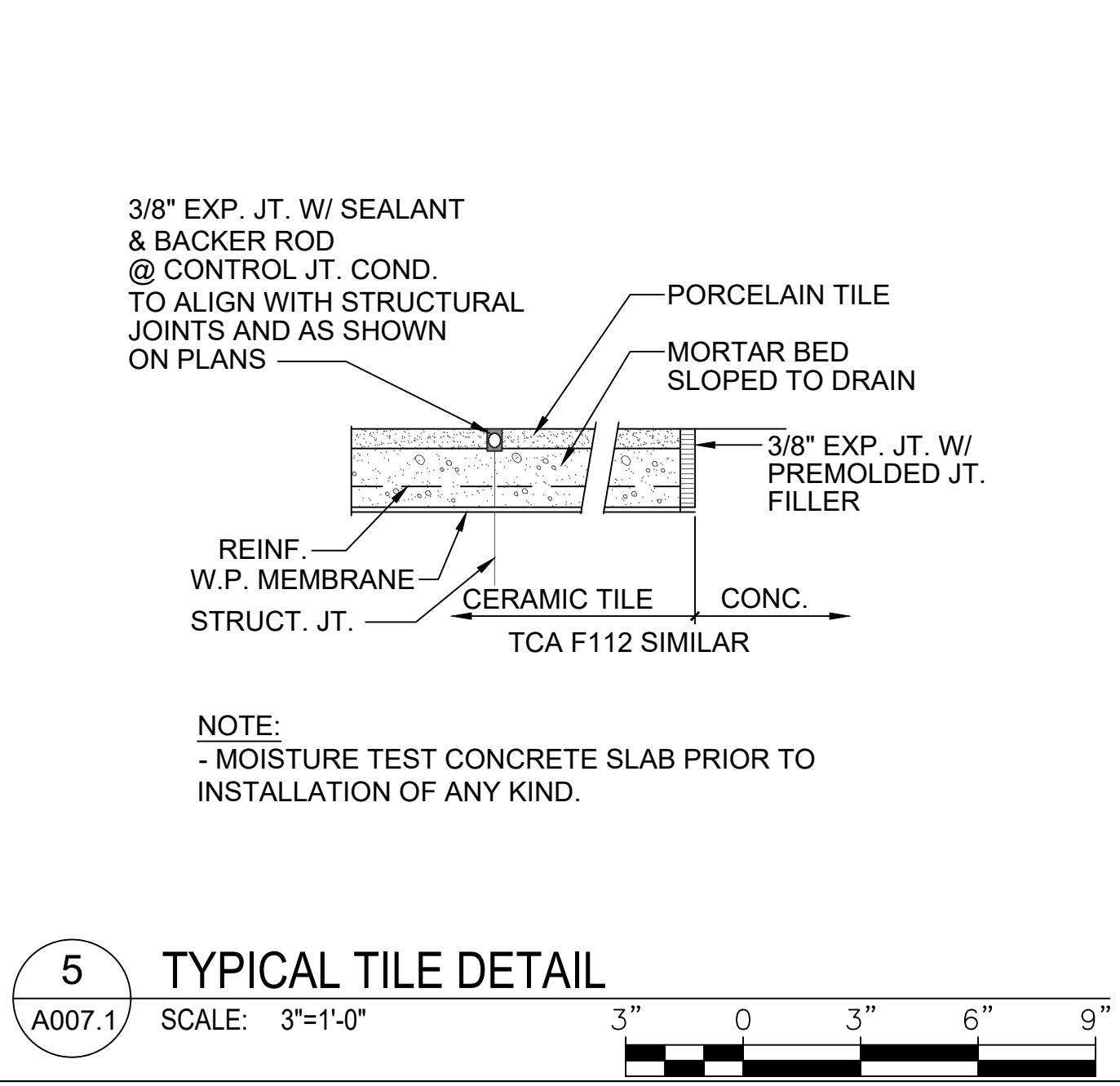
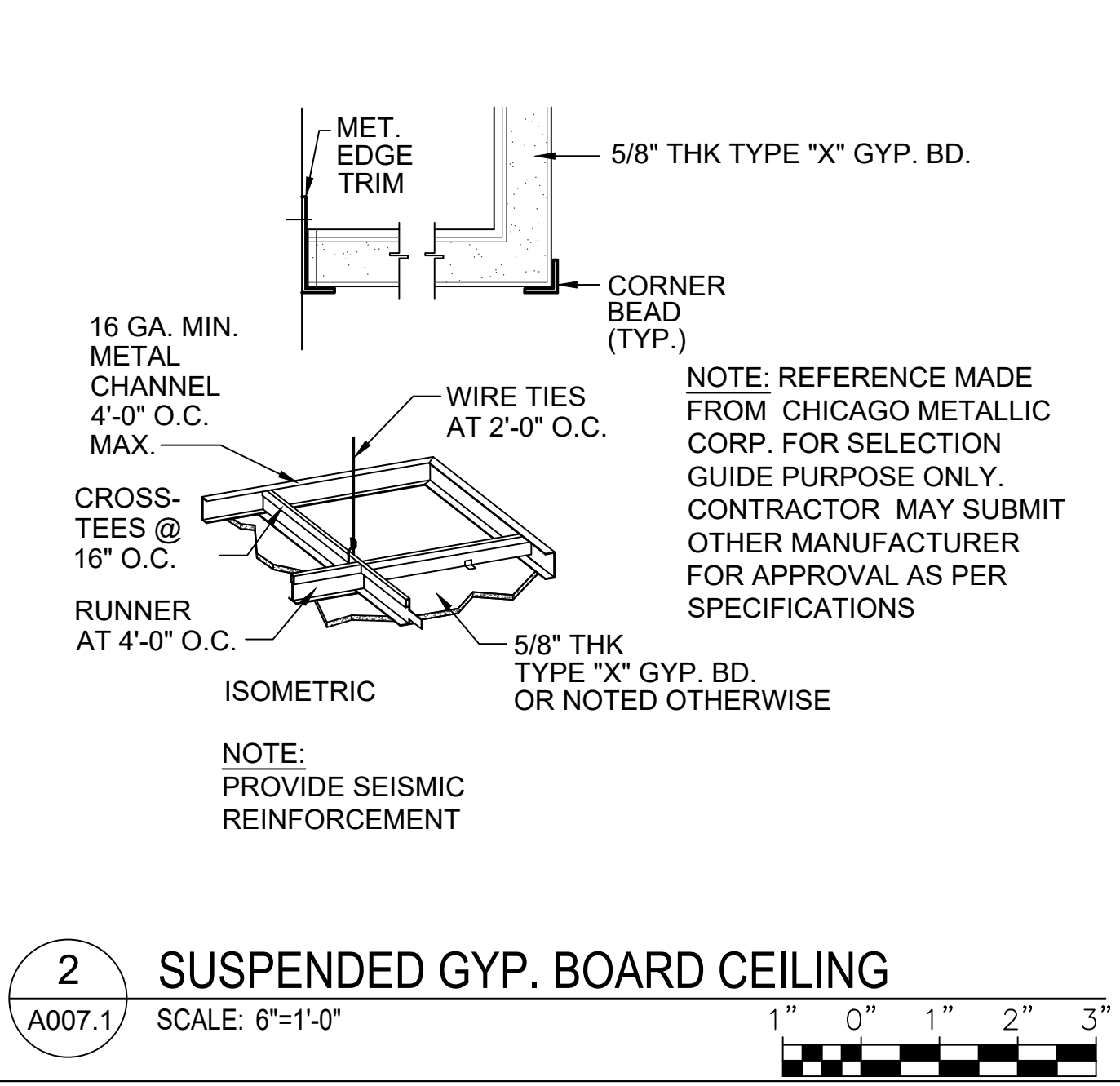
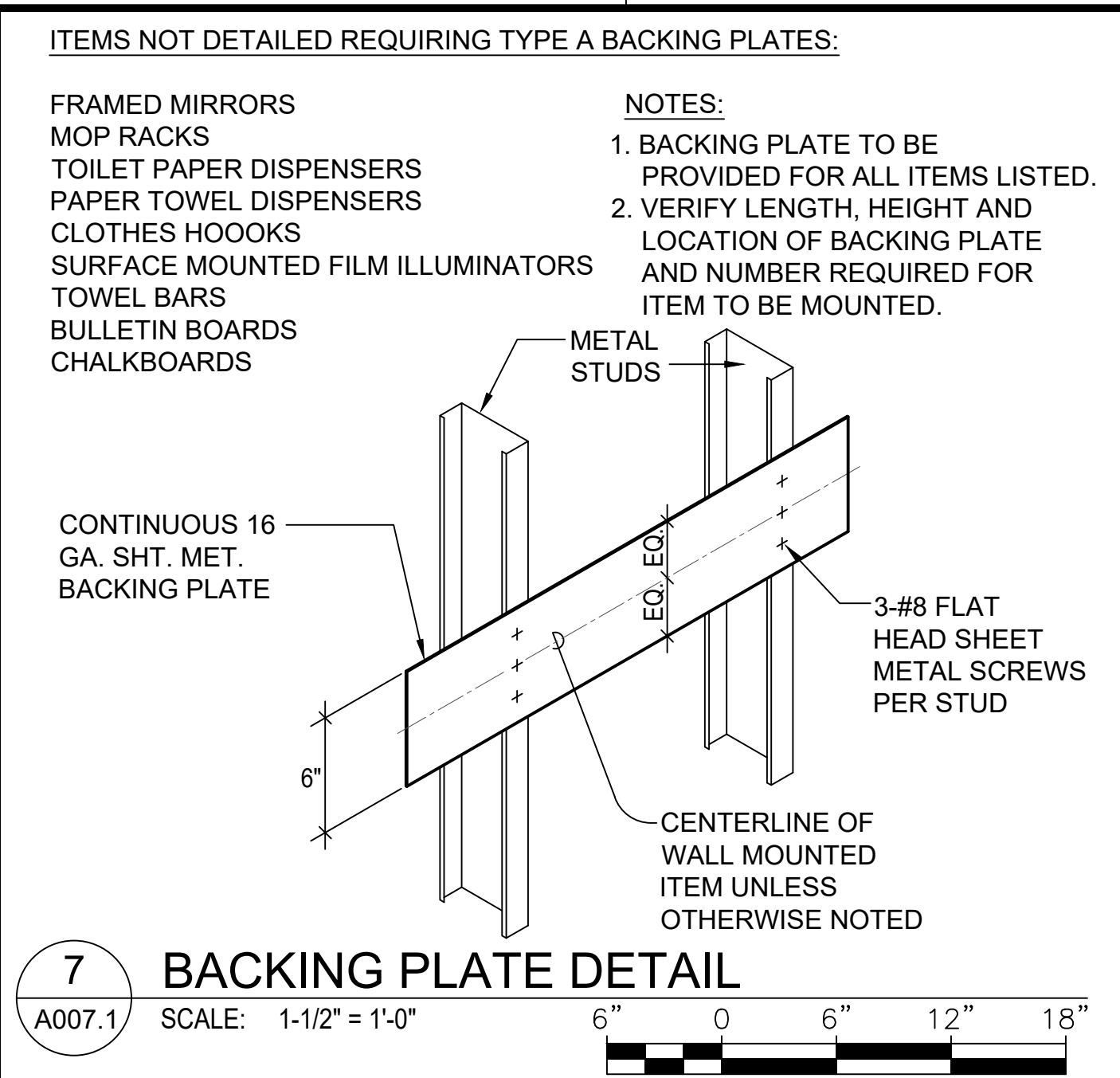
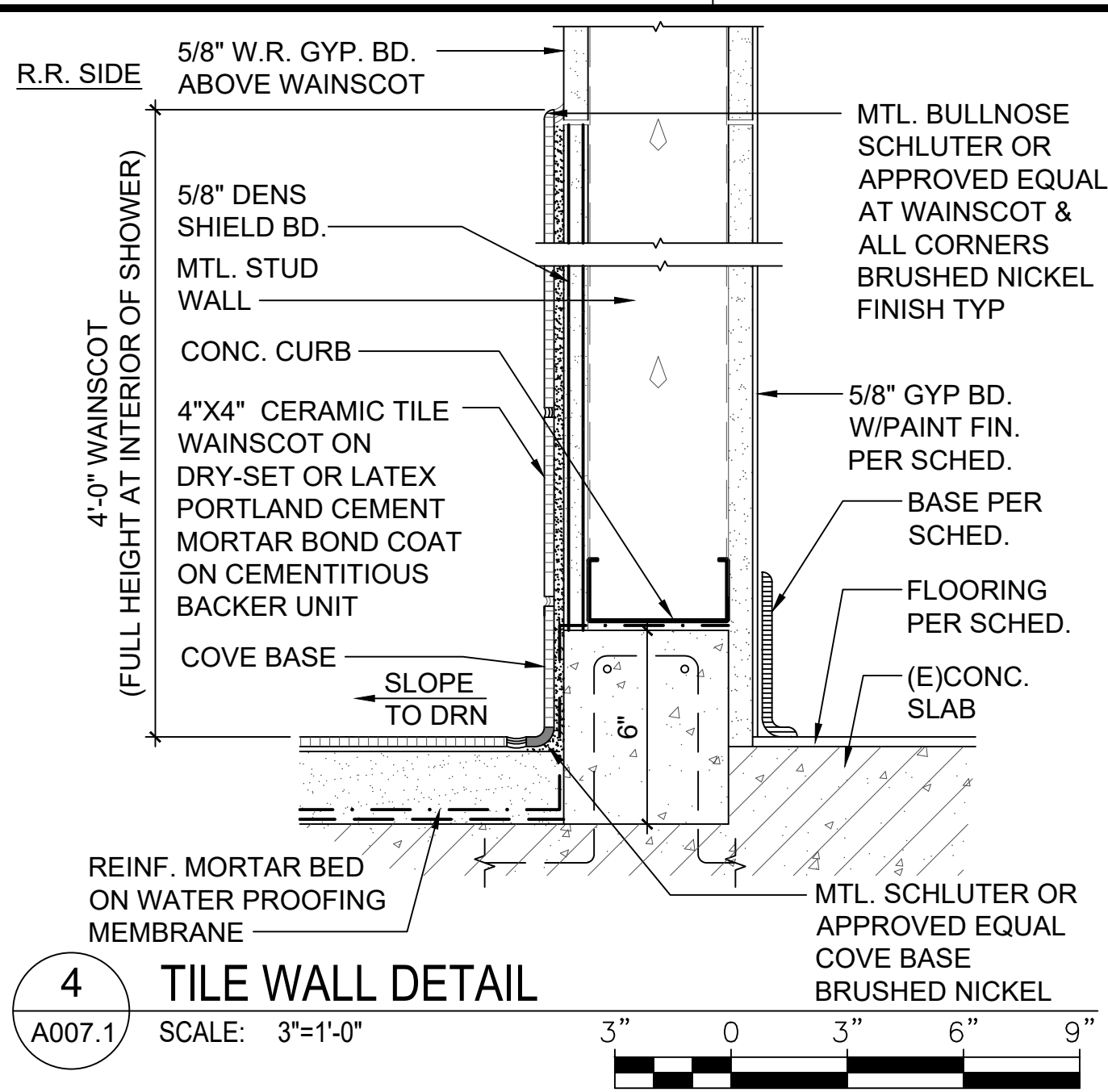
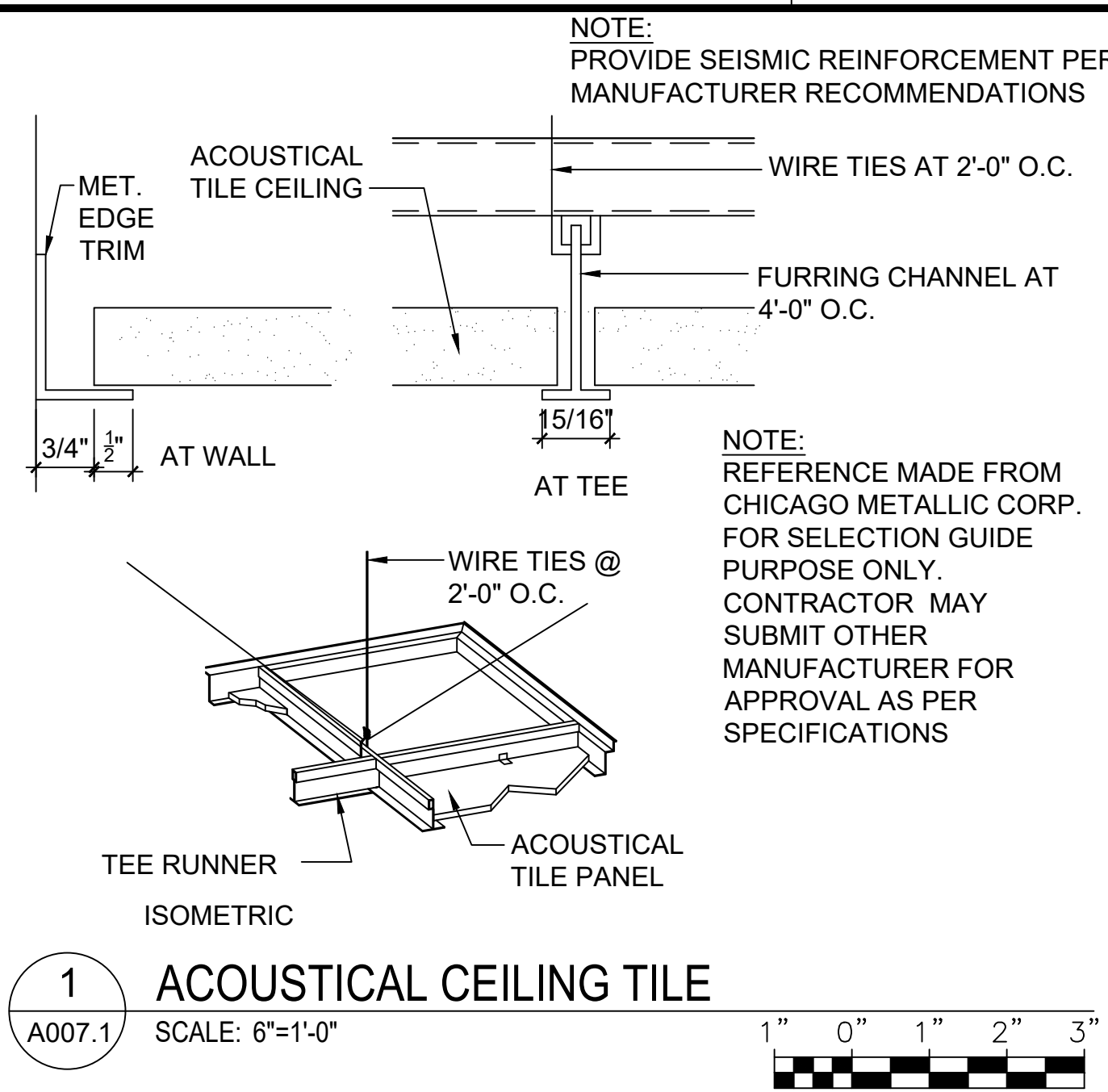
DWG. NO.

**A006.4**

1 INTERIOR ELEVATION @ CARPENTER SHOP  
A-006.4 SCALE: 1/4"= 1'-0"



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**ITEMS NOT DETAILED REQUIRING TYPE A BACKING PLATES:**  
 FRAMED MIRRORS  
 MOP RACKS  
 TOILET PAPER DISPENSERS  
 PAPER TOWEL DISPENSERS  
 CLOTHES HOOKS  
 SURFACE MOUNTED FILM ILLUMINATORS  
 TOWEL BARS  
 BULLETIN BOARDS  
 CHALKBOARDS

**NOTES:**  
 1. BACKING PLATE TO BE PROVIDED FOR ALL ITEMS LISTED.  
 2. VERIFY LENGTH, HEIGHT AND LOCATION OF BACKING PLATE AND NUMBER REQUIRED FOR ITEM TO BE MOUNTED.

**NOTE:**  
 PROVIDE SEISMIC REINFORCEMENT PER MANUFACTURER RECOMMENDATIONS

**NOTE:**  
 REFERENCE MADE FROM CHICAGO METALLIC CORP. FOR SELECTION GUIDE PURPOSE ONLY. CONTRACTOR MAY SUBMIT OTHER MANUFACTURER FOR APPROVAL AS PER SPECIFICATIONS

**NOTE:**  
 PROVIDE SEISMIC REINFORCEMENT

**NOTE:**  
 MOISTURE TEST CONCRETE SLAB PRIOR TO INSTALLATION OF ANY KIND.

**NOTE:**  
 PROVIDE ANCHORS AS APPROPRIATE FOR MASONRY CONDITION.

**NOTE:**  
 - ALL EDGES OF SIGN SHALL BE 9" FROM ALL FACE OF BLDGS OR DOOR FRAMES

**NOTE:**  
 - SIGNS HEIGHTS SHALL BE PROVIDED SUCH THAT THE BOTTOM OF LETTERS ARE NO LESS THAN 48" A.F.F. & NOT TO EXCEED 60" A.F.F.

**NOTE:**  
 SEE PLUMBING SHTS. FOR PIPE DRAIN SIZE ETC.

**NOTE:**  
 1/4" DIA. SCREW & EXPANSION SHIELD. EPOXY ANCHORS OPTIONAL TYP. (CONDITION WHERE OCCURS)

**NOTE:**  
 FILL GROOVES & VOIDS IN WALL BEHIND SIGN FOR EVEN BACKING

DSGN.	DRWN.	CHKD.	APPD.
JM	KN	JM	

NO.	DATE	REVISIONS

DATE

**PROJECT TITLE :**  
 CONVERT CARGO BUILDING TO WORKSHOP

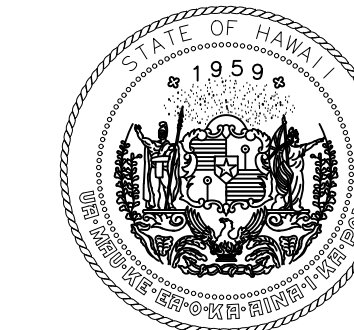
AT  
 DANIEL K. INOUE INTERNATIONAL AIRPORT  
 HONOLULU, OAHU, HAWAII

**PROJECT NO.:**  
 CO1325-33

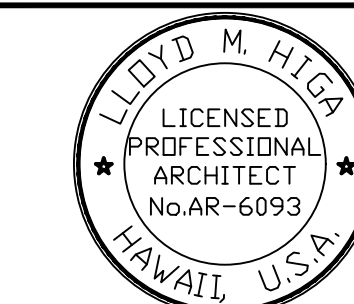
**SHEET TITLE:**  
 MISC DETAILS

DATE :	DWG. NO.
05/10/23	A007.1
SHEET :	
20 OF 84 SHEETS	

C:\USERS\NAKAWAKI\DRAWING\PROJECTS\2024-063 DOTA CONTINENTAL CARGO BLDG\CONTINENTAL WAREHOUSE - HNL\DRAWINGS\WORKING DWG\2024\A007.1\_TYP DETAILS.DWG



Airports Division  
DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



LLOYD M. HIGA  
LICENSURE EXPIRES  
04/30/24  
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JM	KN	JM	

NO.	DATE	REVISIONS
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DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING  
TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

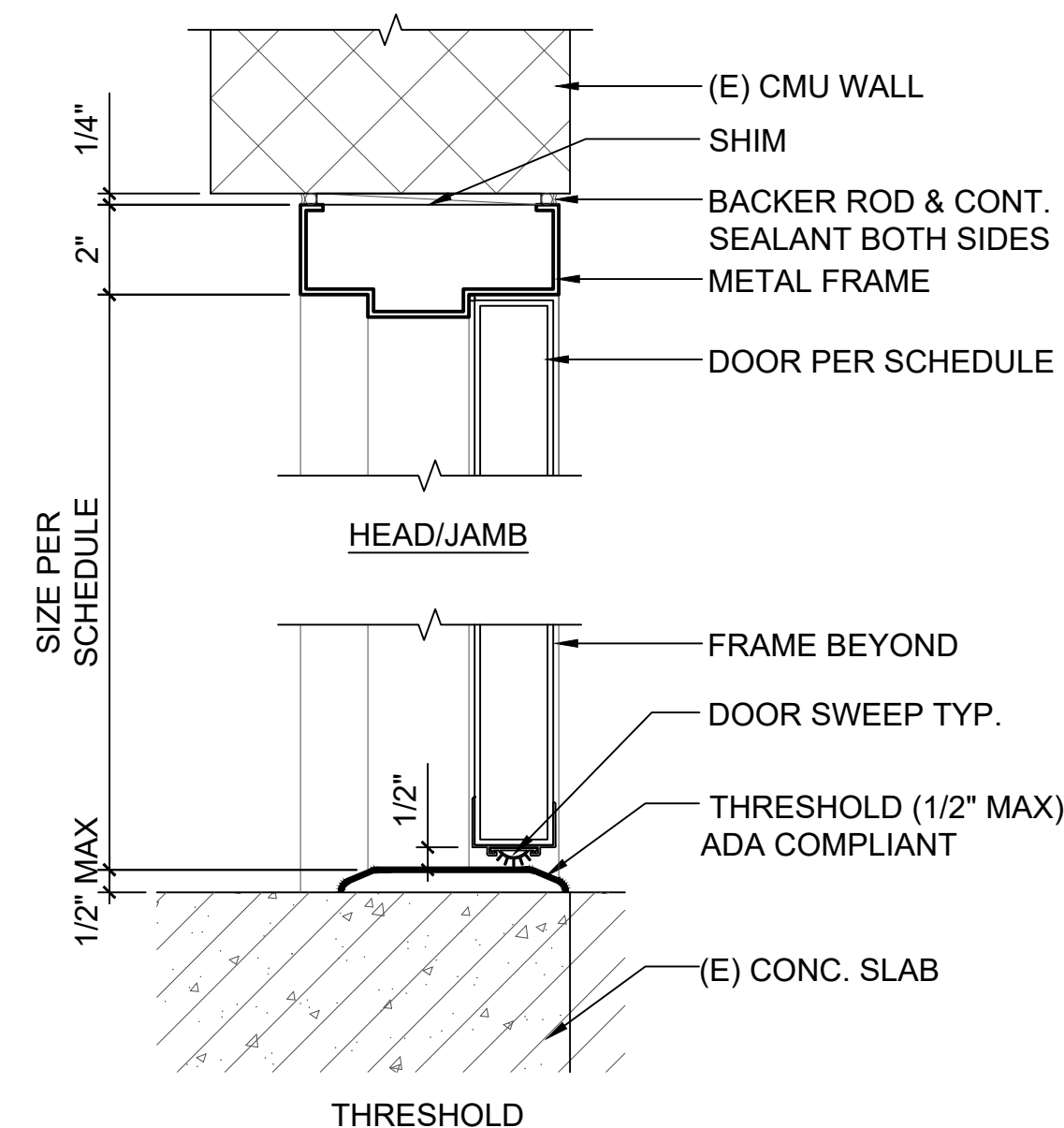
PROJECT NO.:

**CO1325-33**

SHEET TITLE:

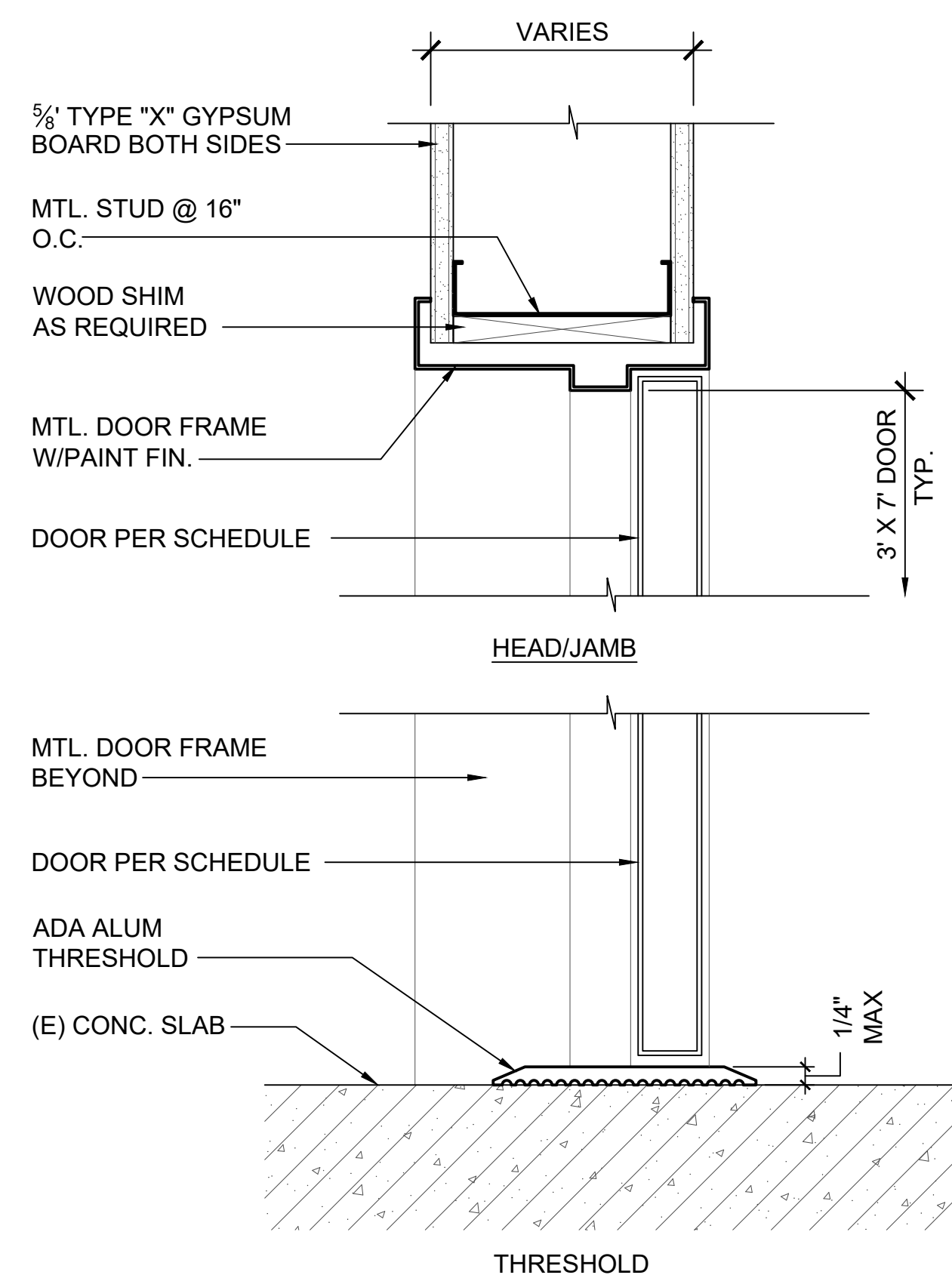
**MISC DETAILS**

DATE :	DWG. NO.
05/10/23	<b>A007.2</b>
SHEET :	
21 OF 84 SHEETS	



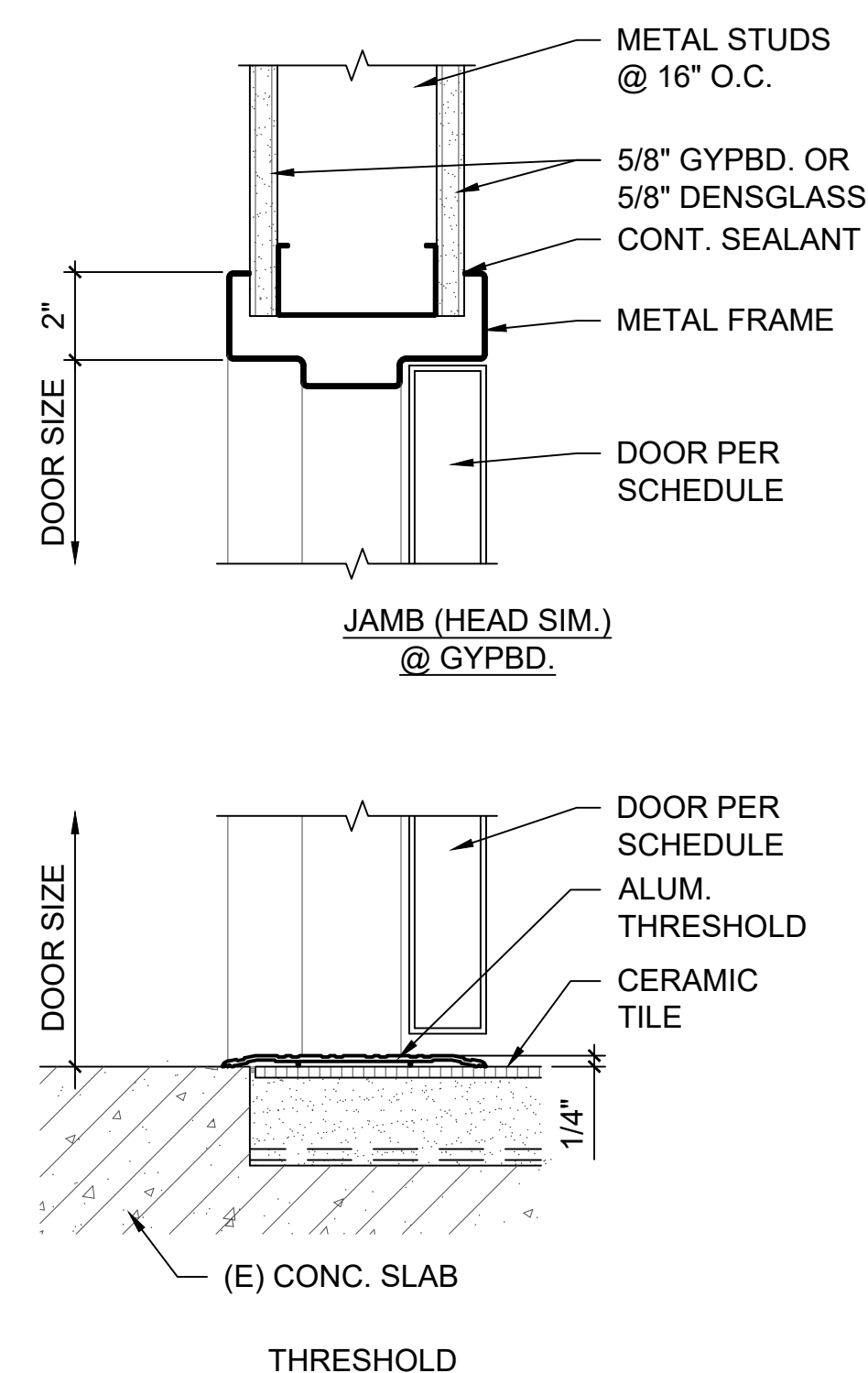
**1**  
TYPICAL FLUSH HOLLOW METAL  
EXTERIOR DOOR DETAIL

A007.2 SCALE: 3"=1'-0"



**2**  
TYPICAL HOLLOW METAL  
INTERIOR DOOR DETAIL

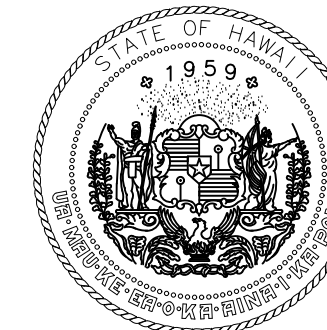
A007.2 SCALE: 3"=1'-0"



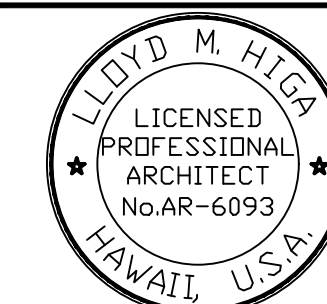
**3**  
THRESHOLD DETAIL  
AT LOCKER AND R.R.

A007.2 SCALE: 3"=1'-0"

C:\USERS\NAKAZAWA\ONE\DRIVE - YAMASATO HIGA ARCHITECTS\2021-063 DOTA CONTINENTAL CARGO BLDG\CONTINENTAL WAREHOUSE - HALLDRAWINGS\WORKING DWGS\021 A007.2\_TYP DETAILS.DWG



Airports Division  
DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



LLOYD M. HIGA  
LICENSED PROFESSIONAL ARCHITECT  
No. AR-6093  
HAWAII, U.S.A.  
04/30/24  
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JM	KN	JM	

NO.	DATE	REVISIONS

DATE

PROJECT TITLE :

CONVERT CARGO BUILDING  
TO WORKSHOP

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

CO1325-33

SHEET TITLE:

CABINTRY DETAILS

DATE :

05/10/23

SHEET :

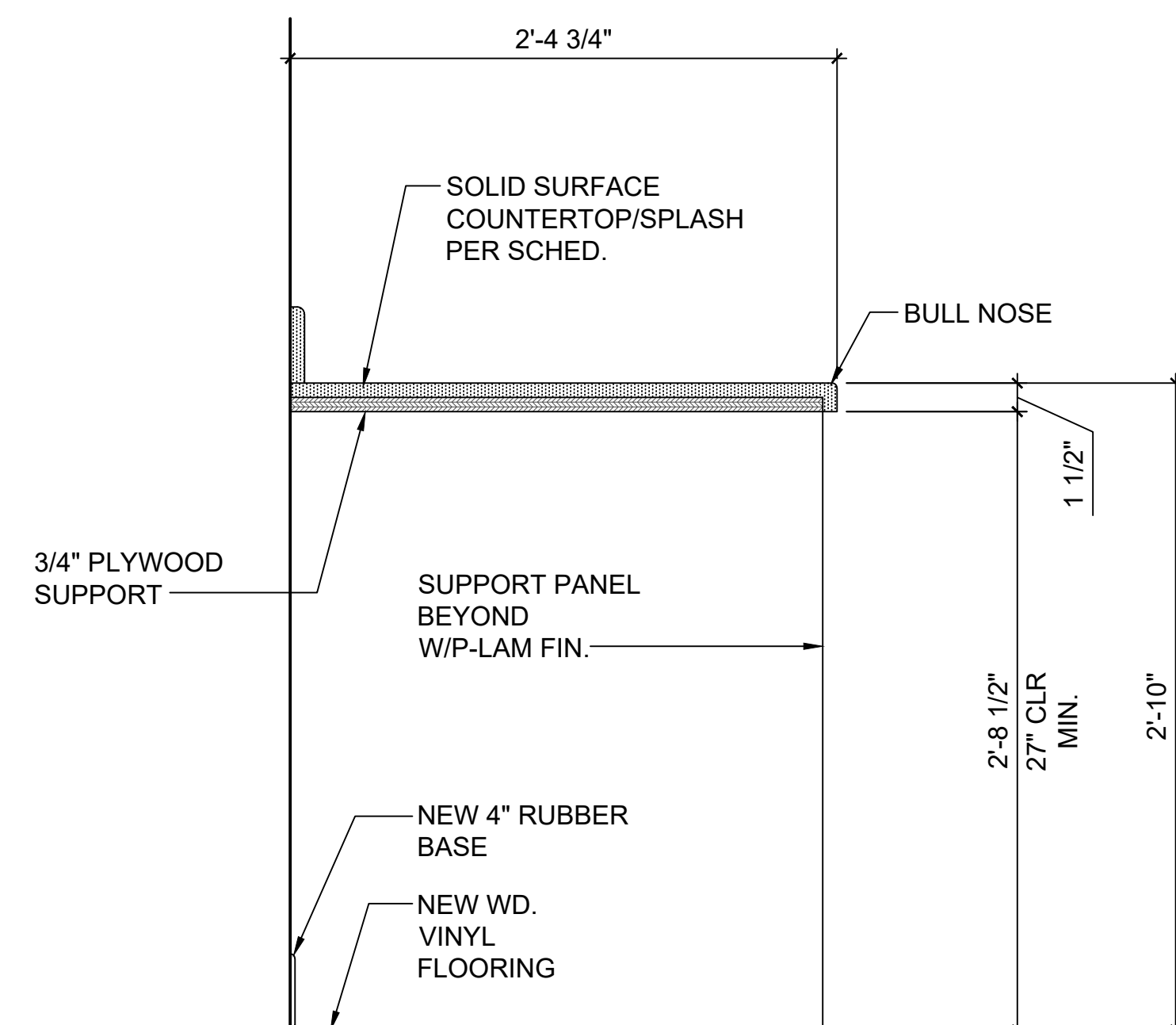
22 OF 84 SHEETS

DWG. NO.

A007.3

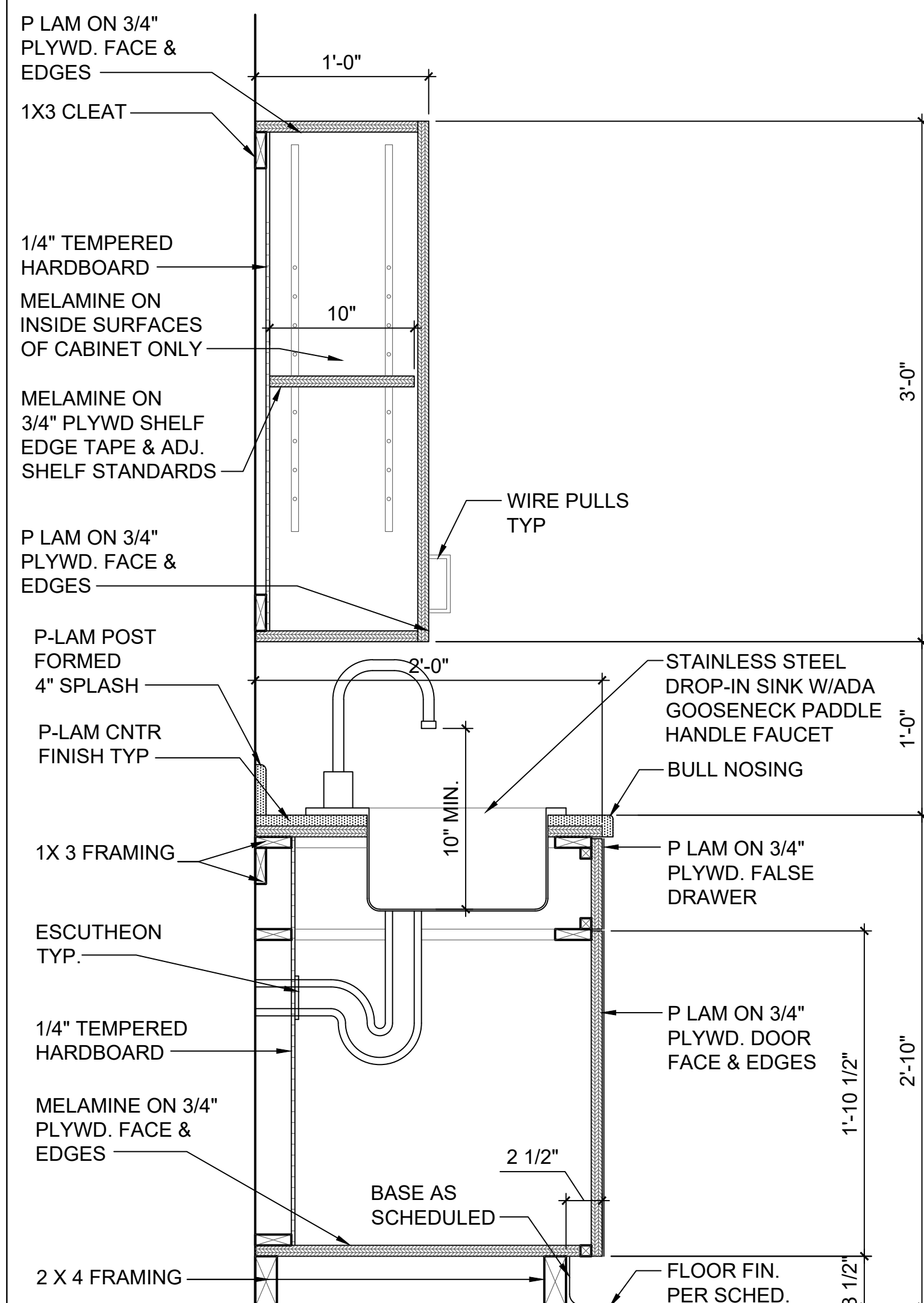
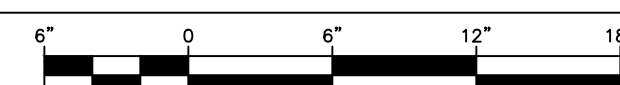
**NOTE:**

- ALL DOOR PULLS TO BE BRUSHED NICKEL FINISH
- ENSURE P-LAM ON ALL EXPOSED FACES AND EDGES.
- ALL WOODS SHALL BE PRESSURE TREATED.



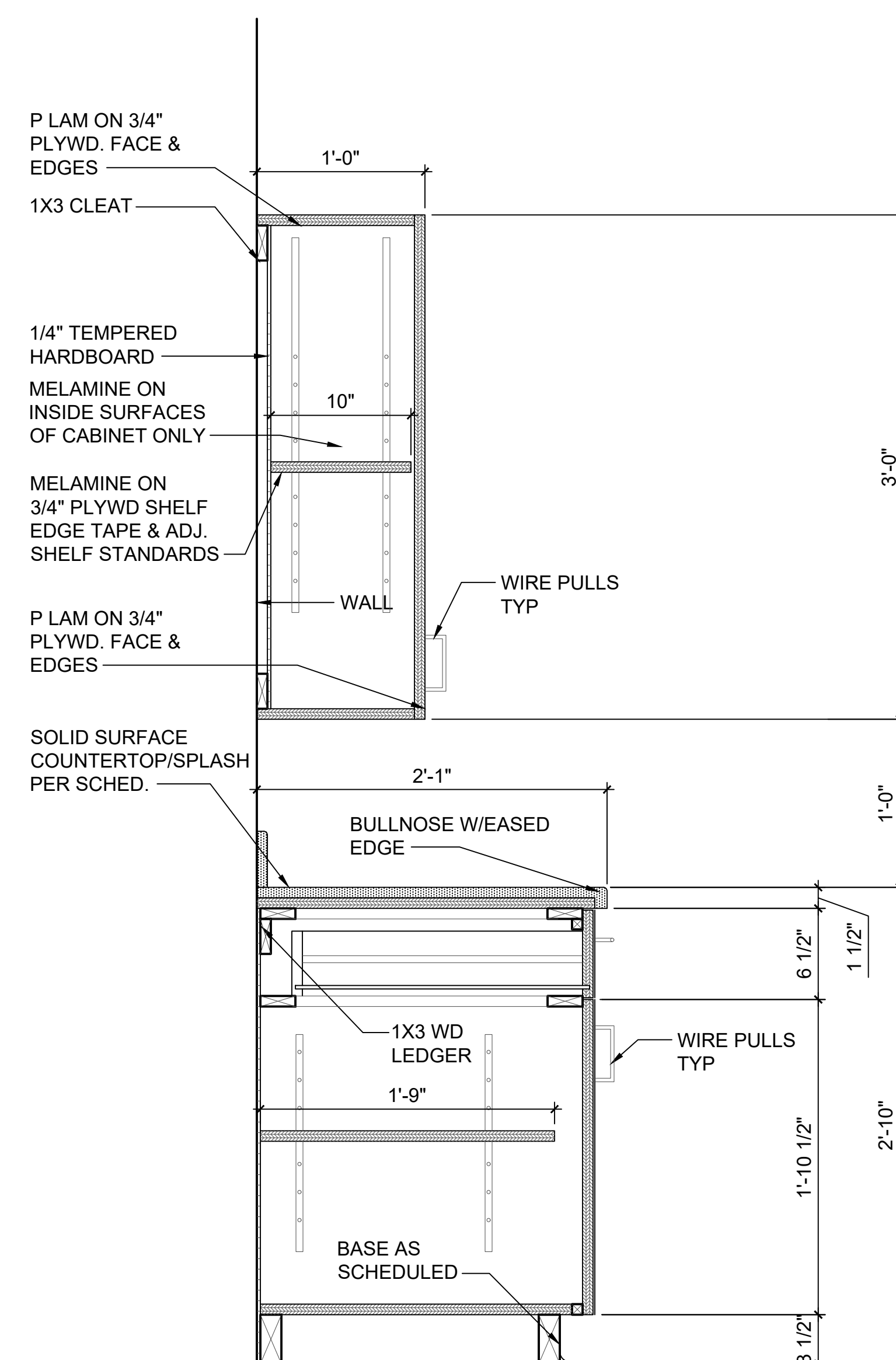
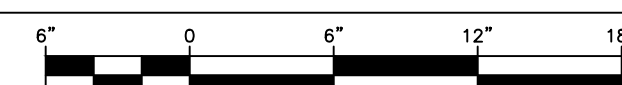
1 TYPICAL OPEN COUNTER DETAIL

A007.3 SCALE: 1-1/2" = 1'-0"



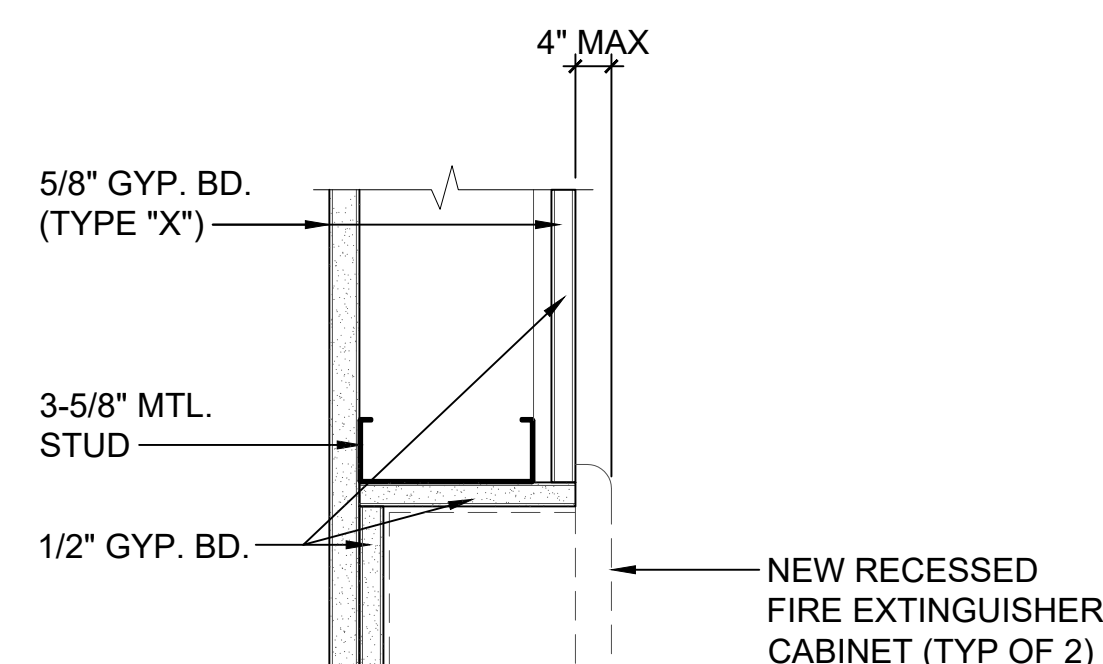
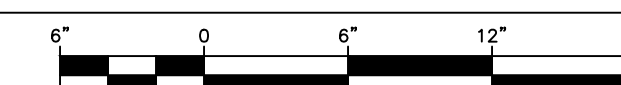
2 TYPICAL SINK BASE CABINET

A007.3 SCALE: 1-1/2" = 1'-0"



3 TYPICAL CABINET/DRAWER DETAIL

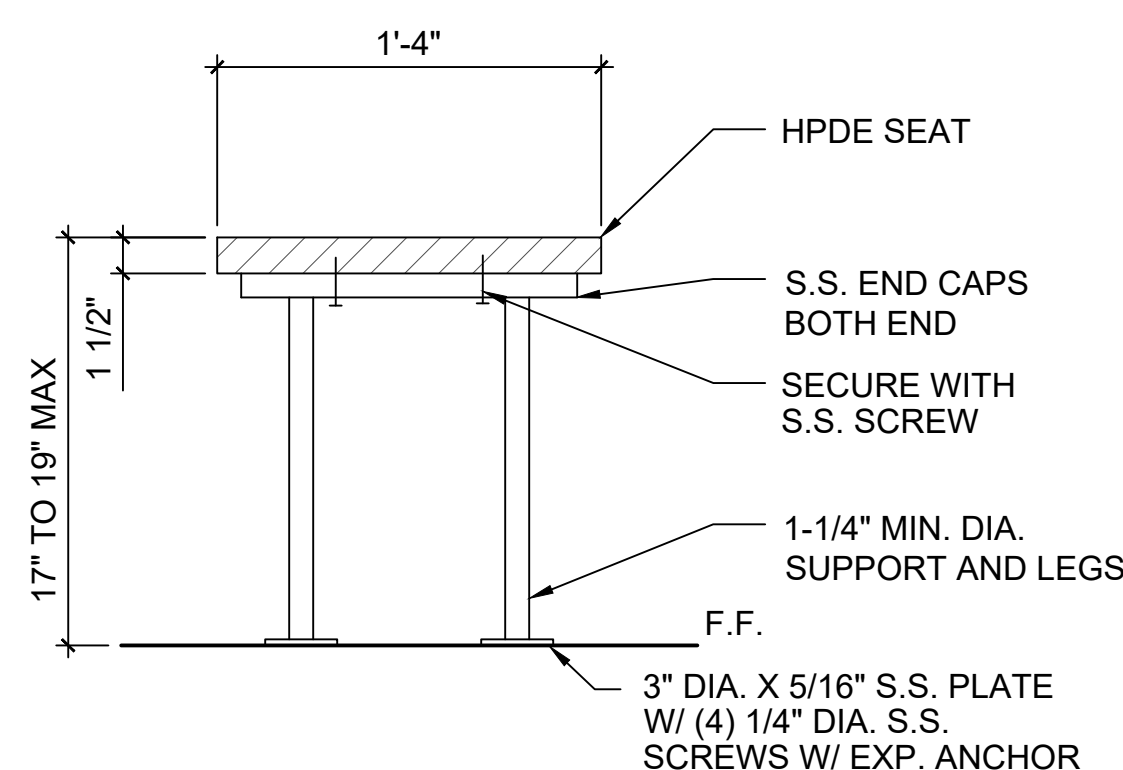
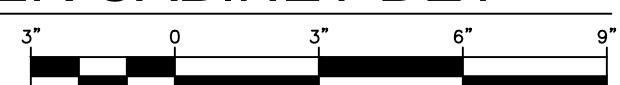
A007.3 SCALE: 1-1/2" = 1'-0"



FIRE EXTINGUISHER TO BE UL RATED TO MEET OCCUPANCY TYPE FOR OFFICE USE

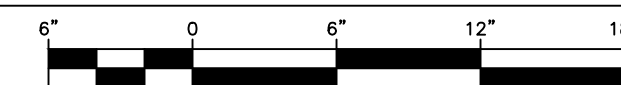
4 FIRE EXTINGUISHER CABINET DET

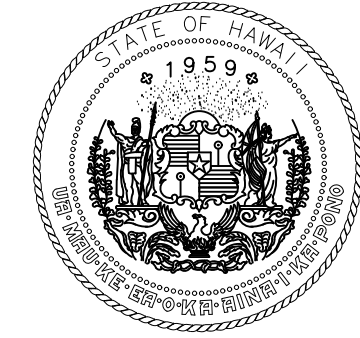
A007.3 SCALE: 3" = 1'-0"



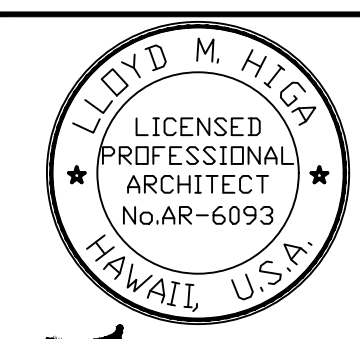
5 TYPICAL BENCH DETAIL

A007.3 SCALE: 1 1/2" = 1'-0"





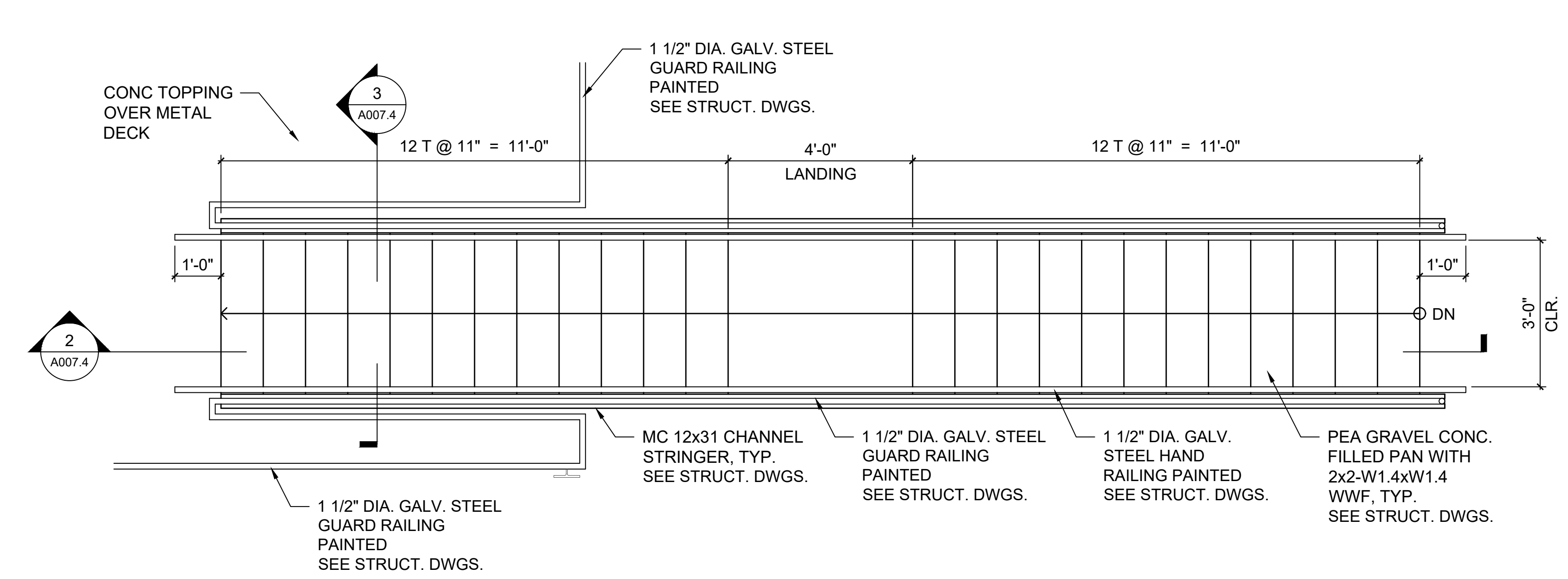
Airports Division  
DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



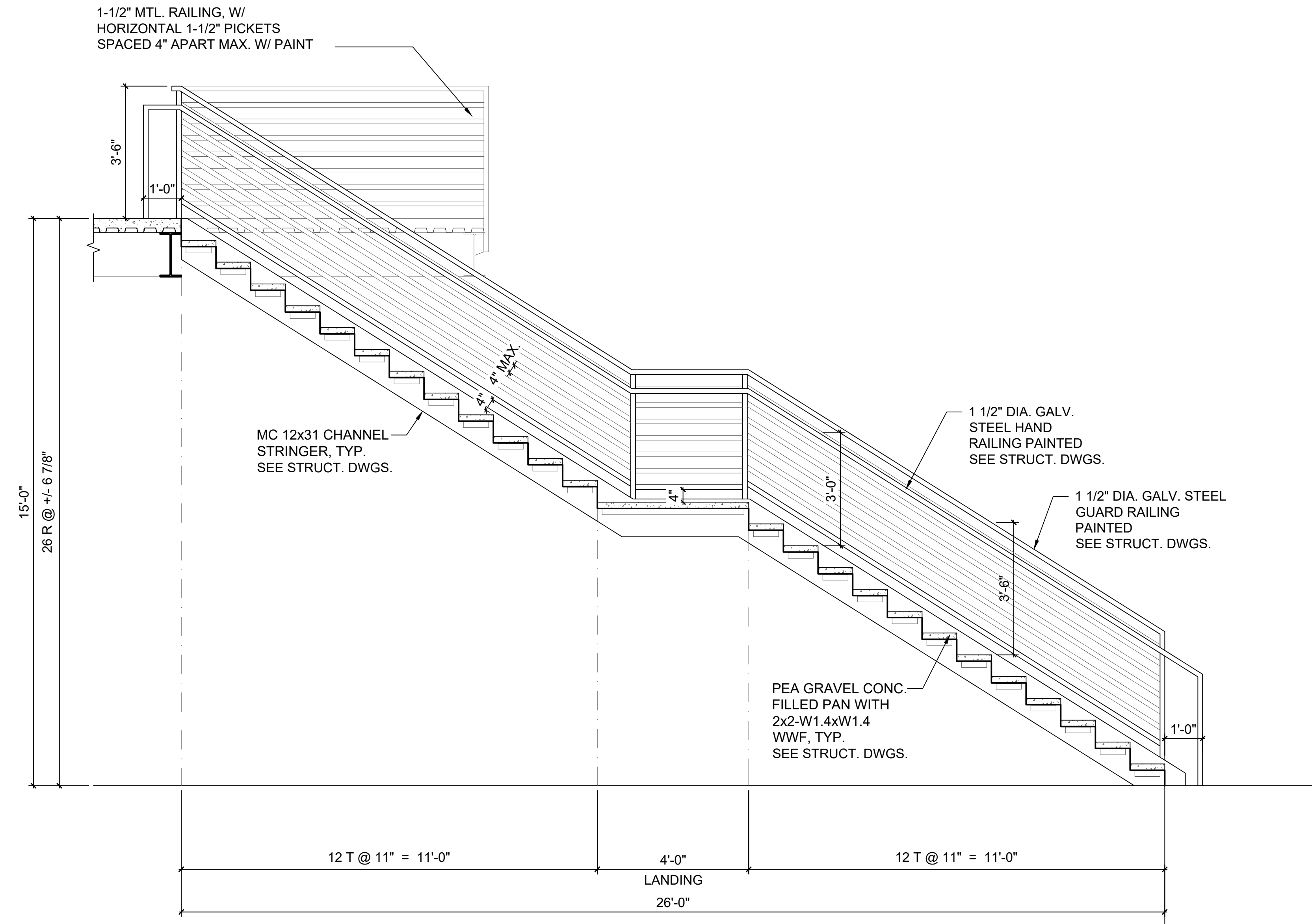
LLOYD M. HIGA  
LICENSED PROFESSIONAL ARCHITECT  
No. AR-6093  
HAWAII, U.S.A.  
04/30/24  
Licensed Expiration Date

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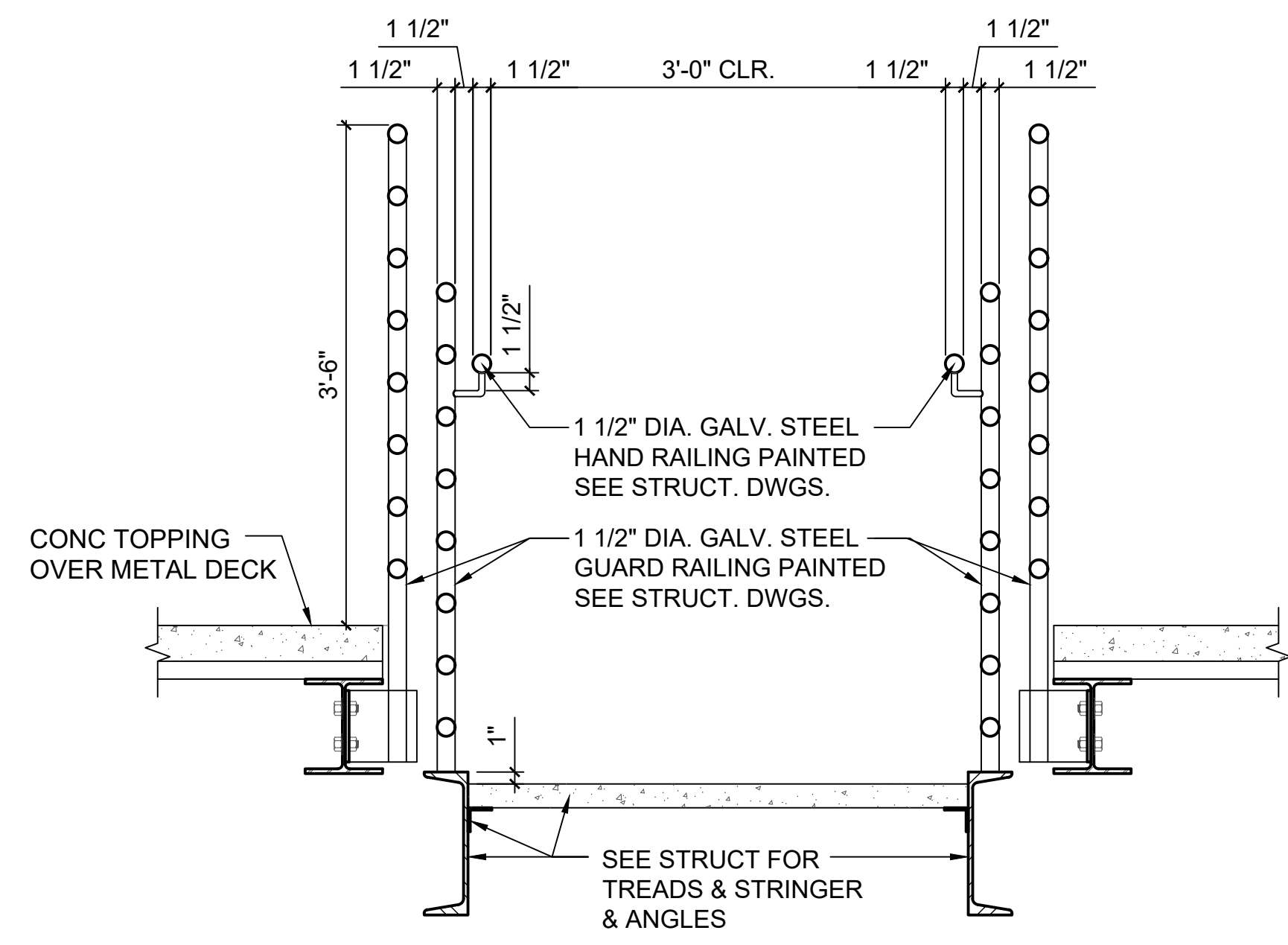
DSGN.	DRWN.	CHKD.	APPD.
JM	KN	JM	



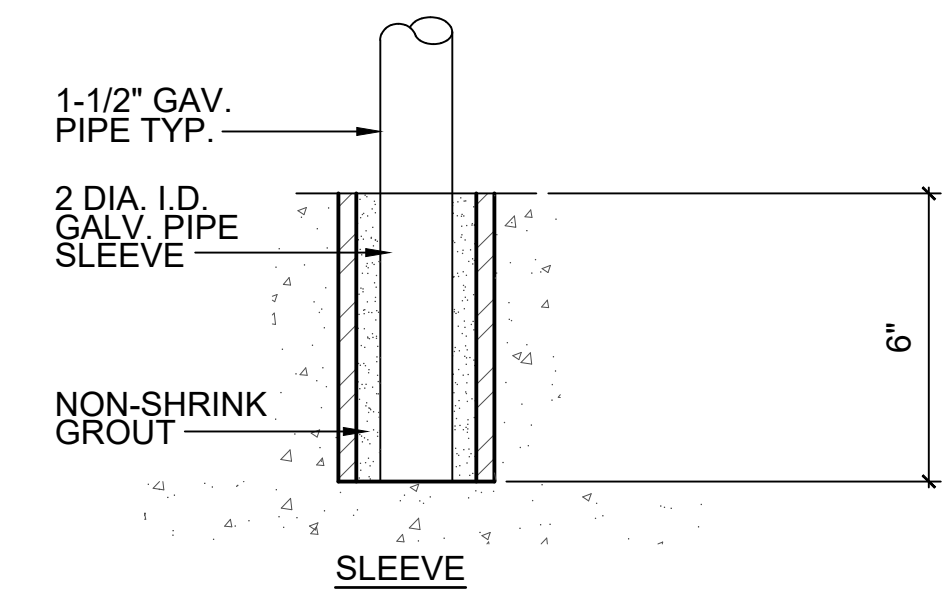
**1 STAIR PLAN**  
A007.4 SCALE: 1/2" = 1'-0"  
1' 0 2' 4'



**2 STAIR SECTION**  
A007.4 SCALE: 1/2" = 1'-0"  
1' 0 2' 4'



**3 STAIR SECTION**  
A007.4 SCALE: 1" = 1'-0"  
1' 0 1'



**4 PIPE RAIL EMBEDMENT DETAIL**  
A007.4 SCALE: 3" = 1'-0"  
3" 0 3" 6" 9"

NO.	DATE	REVISIONS
-----	------	-----------

DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**RAMP & RAILING DETAILS**

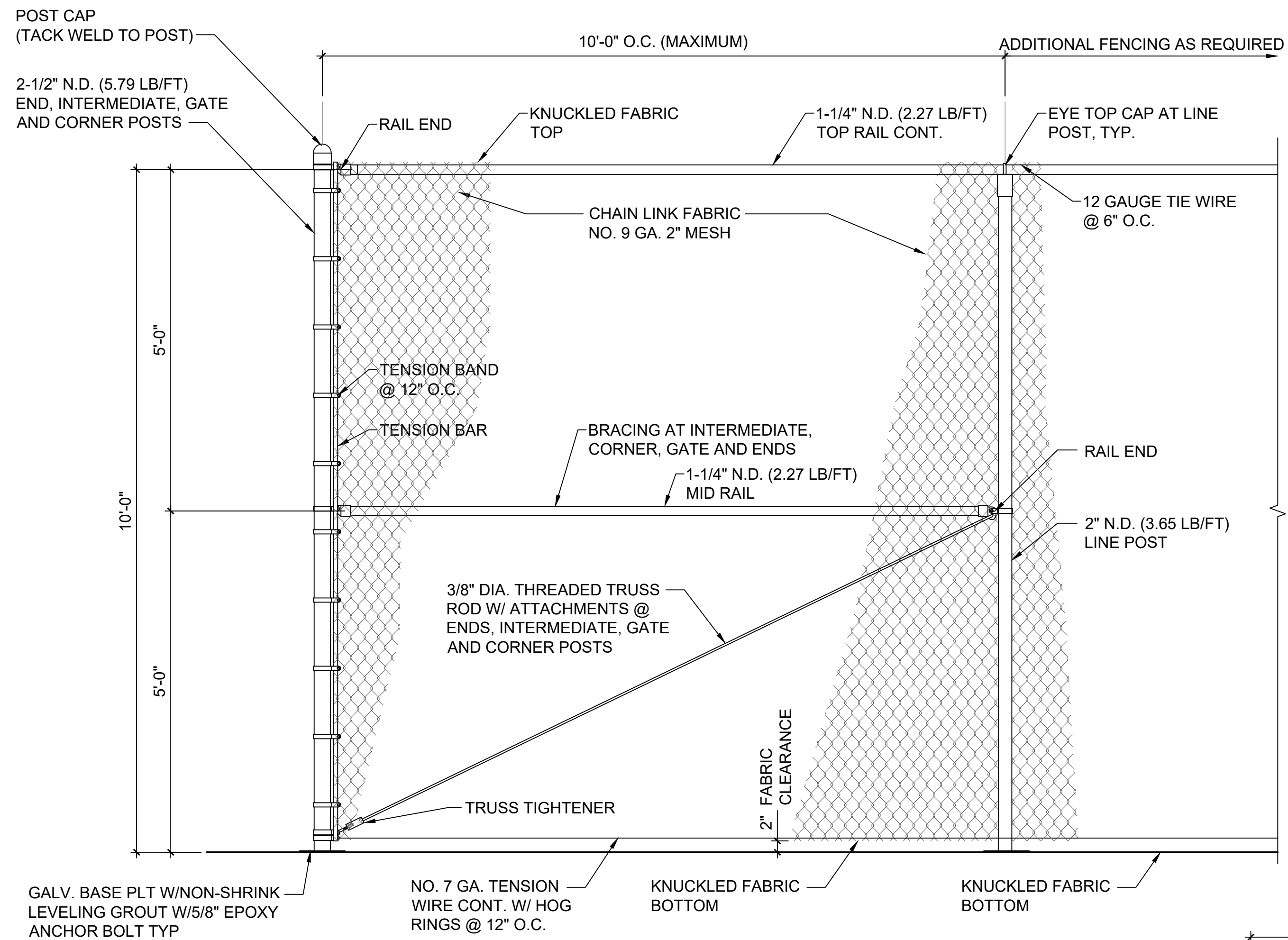
DATE : 05/10/23

SHEET : 23 OF 84 SHEETS

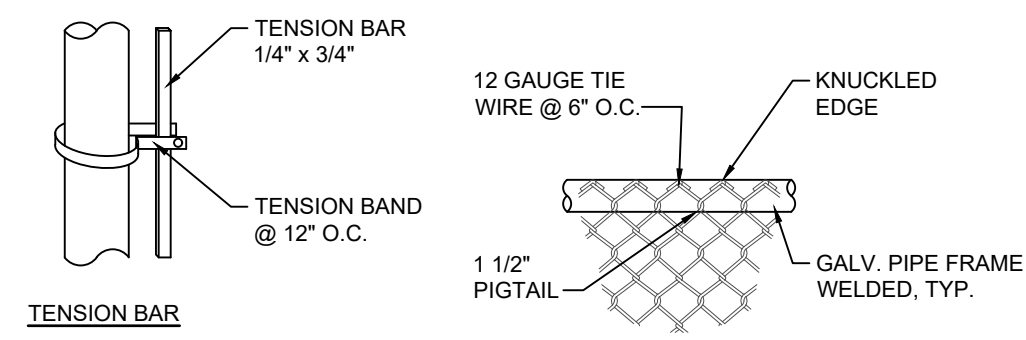
DWG. NO.

**A007.4**

C:\USERS\NAKAWAKI\DRIVE - YAMASATO HIGA ARCHITECTS\2024-03 DOTA CONTINENTAL CARGO BLDG\CONTINENTAL WAREHOUSE - HNL\DRAWINGS\WORKING DWGS\023 A007.4 STAIR & RAIL DETAILS.DWG

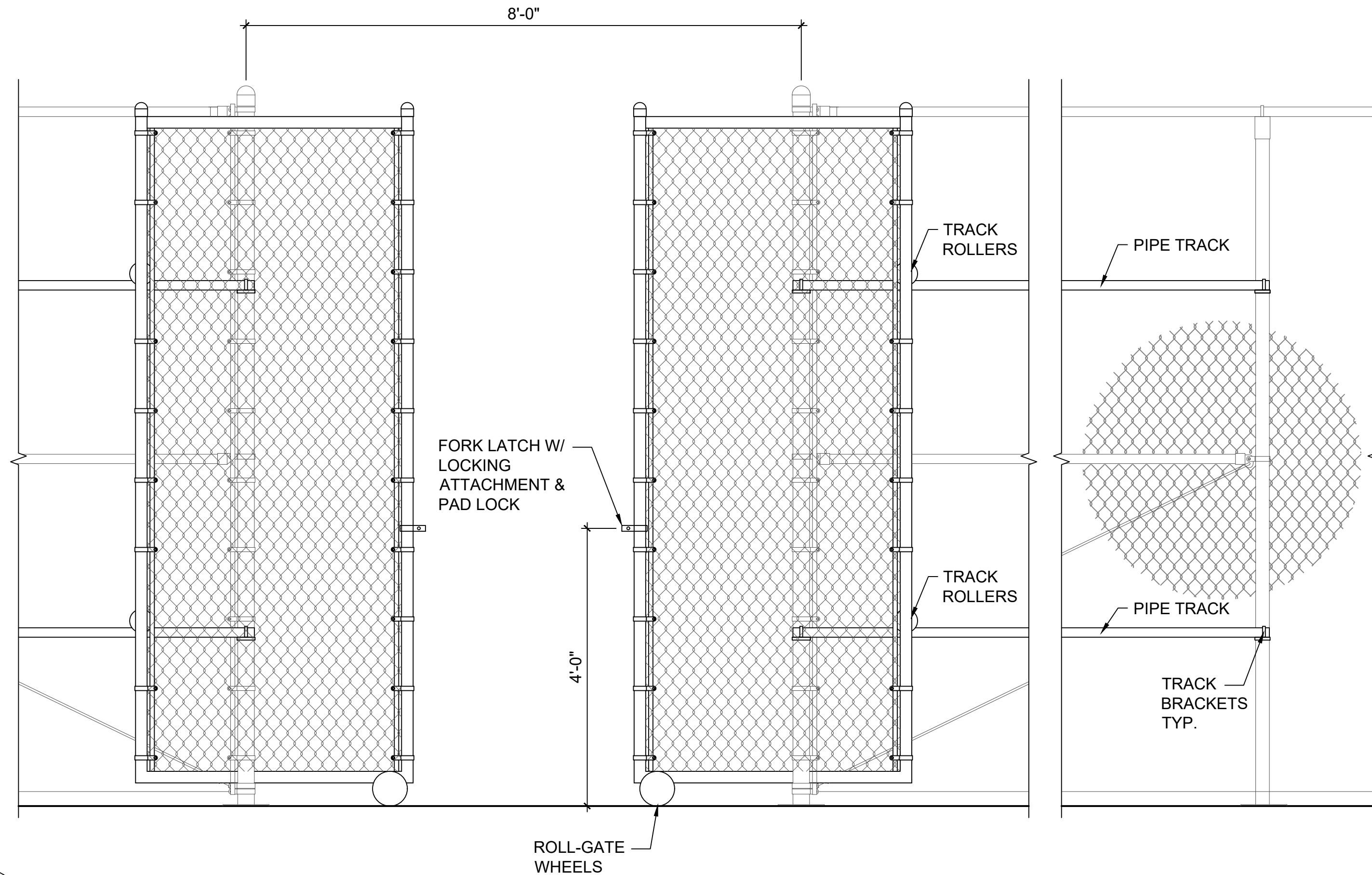
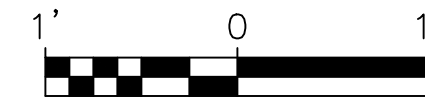


**1 CHAIN LINK FENCE DETAIL**  
 A007.5 SCALE: 3/4" = 1'-0"  
 1' 0 1' 2'

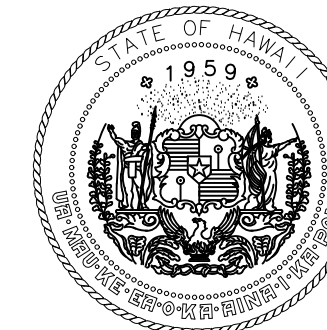


- NOTES: 1. ALL BOLTS AND NUTS SHALL BE PLACED ON THE EXTERIOR SIDE OF THE FENCING FOR SAFETY, TYP.  
 2. CUT OFF ALL EXCESS BOLT LENGTHS AND GRIND SMOOTH, TYP.  
 3. APPLY MOULDABLE RUBBER COVERING TO ALL CONNECTION BOLTS FACING INSIDE OF COURTS, TYP.  
 4. CHAIN LINK FABRIC SHALL BE ON INSIDE OF FENCE POSTS, TYP.

**2 TYPICAL CHAIN LINK FENCE DETAILS**  
 A007.5 SCALE: 1" = 1'-0"



**3 MANUAL SLIDING GATE DETAIL**  
 A007.5 SCALE: 3/4" = 1'-0"  
 1' 0 1' 2'



Airports Division  
 DEPARTMENT OF TRANSPORTATION  
 STATE OF HAWAII



04/30/24  
 Licensed Expiration Date

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JM	KN	JM	

NO.	DATE	REVISIONS

DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT DANIEL K. INOUE INTERNATIONAL AIRPORT  
 HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**CHAIN LINK FENCE DETAILS**

DATE : 05/10/23

SHEET : A007.5

24 OF 84 SHEETS

DWG. NO.

**A007.5**

C:\USERS\NAKAZAWA\ONE\DRIVE - YAMASATO HIGA ARCHITECTS\2024-063 DOTA CONTINENTAL CARGO BLDG\CONTINENTAL WAREHOUSE - HNL\DRAWINGS\WORKING DWGS\2024 A007.5\_FENCE DET.DWG

# DOOR TYPES

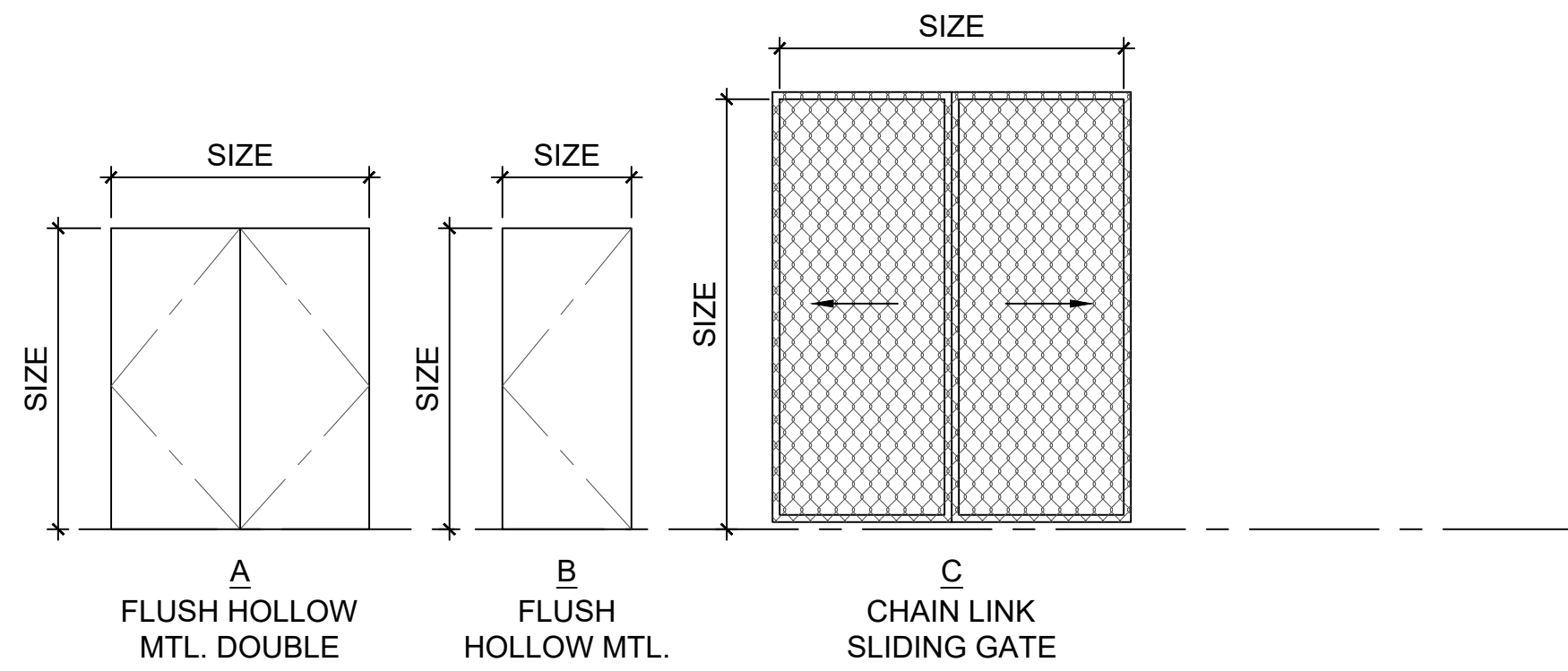
## DOOR NOTES

\*ALL DOORS SHALL BE FINISHED ON ALL 6 SIDES.

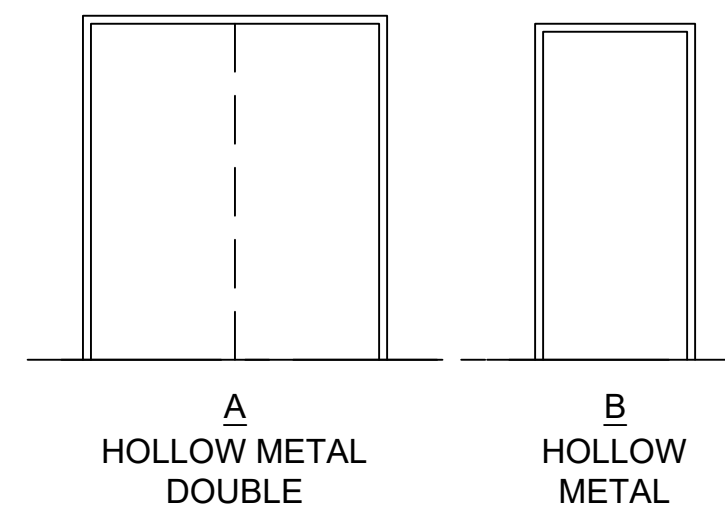
\*ALL FLOOR TRANSITIONS AND/OR THRESHOLDS SHALL BE 1/4" MAX WHERE/IF THEY OCCUR.

\*ALL EXTERIOR DOORS SHALL BE EQUIPPED W/FULL WEATHER STRIPPING/SEALING.

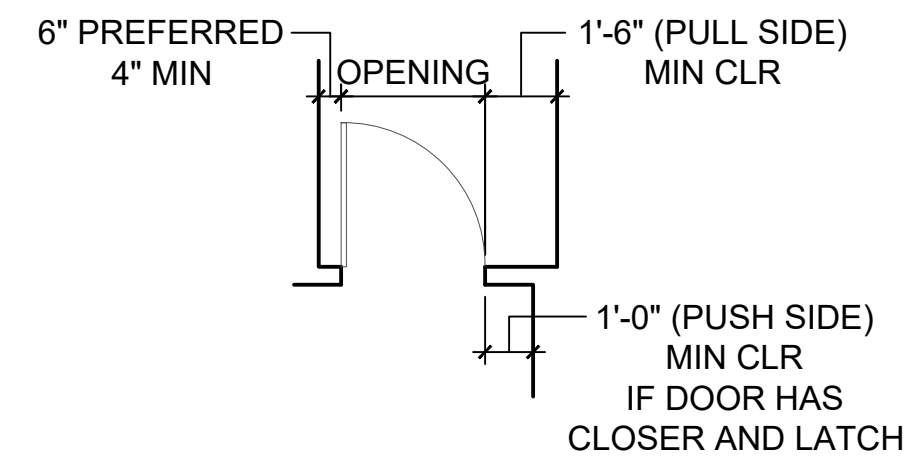
## DOOR TYPES



## FRAME TYPES



## DOOR PLAN DESIGNATION



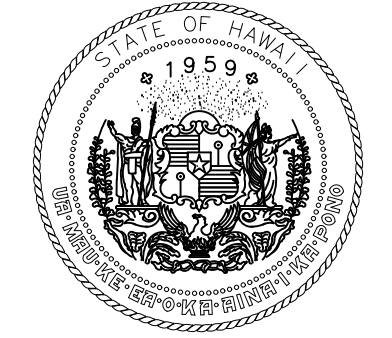
### DOOR OPENING LOCATION

A. DOORS SHOWN ADJACENT TO A FLANKING WALL OR OTHER FIXED OBSTRUCTION, SHALL BE LOCATED AS SHOWN ABOVE.

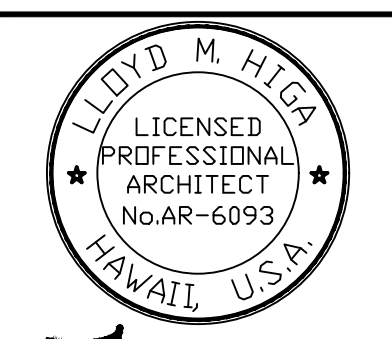
B. OTHER LOCATIONS SHALL BE ON CENTERLINE OF ROOM OR AS SPECIFICALLY DIMENSIONED.

# DOOR SCHEDULE

#	DOOR			HDWR SET	FIRE RATING	DOOR		FRAME			DETAIL	GLASS		REMARKS
	WIDTH	HEIGHT	TYPE			MATERIAL	FINISH	MATERIAL	FINISH	TYPE		THK	TYPE	
1	6'-0"	7'-0"	A	-	-	METAL	PAINT	METAL	PAINT	A	1/A007.1	-	-	-
2	6'-0"	7'-0"	A	-	-	METAL	PAINT	METAL	PAINT	A	2/A007.1	-	-	-
3	3'-0"	7'-0"	B	-	-	METAL	PAINT	METAL	PAINT	B	2/A007.1	-	-	-
4	3'-0"	7'-0"	B	-	-	METAL	PAINT	METAL	PAINT	B	2/A007.1	-	-	-
5	6'-0"	7'-0"	A	-	-	METAL	PAINT	METAL	PAINT	A	2/A007.1	-	-	-
6	3'-0"	7'-0"	B	-	-	METAL	PAINT	METAL	PAINT	B	3/A007.1	-	-	-
7	3'-0"	7'-0"	B	-	-	METAL	PAINT	METAL	PAINT	B	3/A007.1	-	-	-
8	3'-0"	7'-0"	B	-	-	METAL	PAINT	METAL	PAINT	B	3/A007.1	-	-	-
9	3'-0"	7'-0"	B	-	-	METAL	PAINT	METAL	PAINT	B	3/A007.1	-	-	-
10	5'-0"	7'-0"	A	-	-	METAL	PAINT	METAL	PAINT	A	2/A007.1	-	-	-
11	3'-0"	7'-0"	B	-	-	METAL	PAINT	METAL	PAINT	B	2/A007.1	-	-	-
12	3'-0"	7'-0"	B	-	-	METAL	PAINT	METAL	PAINT	B	3/A007.1	-	-	-
13	3'-0"	7'-0"	B	-	-	METAL	PAINT	METAL	PAINT	B	3/A007.1	-	-	-
14	3'-0"	7'-0"	B	-	-	METAL	PAINT	METAL	PAINT	B	3/A007.1	-	-	-
15	3'-0"	7'-0"	B	-	-	METAL	PAINT	METAL	PAINT	B	3/A007.1	-	-	-
16	3'-0"	7'-0"	B	-	-	METAL	PAINT	METAL	PAINT	B	3/A007.1	-	-	-
17	3'-0"	7'-0"	B	-	-	METAL	PAINT	METAL	PAINT	B	2/A007.1	-	-	-
18	6'-0"	7'-0"	A	-	-	METAL	PAINT	METAL	PAINT	A	2/A007.1	-	-	-
19	6'-0"	7'-0"	A	-	-	METAL	PAINT	METAL	PAINT	A	2/A007.1	-	-	-
20	8'-0"	10'-0"	C	-	-	METAL	PAINT	METAL	PAINT	-	3/A007.5	-	-	PAD LOCK
21	8'-0"	10'-0"	C	-	-	METAL	PAINT	METAL	PAINT	-	3/A007.5	-	-	PAD LOCK



Airports Division  
DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



LLOYD M. HIGA  
LICENSED PROFESSIONAL ARCHITECT  
No. AR-6093  
HAWAII, U.S.A.  
04/30/24  
Licensed Expiration Date

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JM	KN	JM	

NO.	DATE	REVISIONS

DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**DOOR SCHEDULE**

DATE : 05/10/23

SHEET : 25 OF 84 SHEETS

DWG. NO.

**A008**

**GENERAL NOTES**

- A. SEE ALSO: SPECIFICATIONS, SPECIAL NOTES ON DRAWINGS, AND OTHER CONTRACT DOCUMENTS.
- B. DISCREPANCIES - CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AND SHALL REPORT ANY DISCREPANCIES IN WRITING TO ENGINEER OF RECORD BEFORE COMMENCING WORK OR ORDERING MATERIALS.
- C. MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE.
- D. DETAILS SHOWN ON THE DRAWINGS SHALL BE TYPICAL FOR ALL SIMILAR CONDITIONS. MODIFY DETAILS FOR SPECIAL CONDITIONS AS DIRECTED BY THE ENGINEER.
- E. SEE ARCHITECTURAL DRAWINGS FOR CHAMFERS, EDGE RADIUS, DRIPS, REGLETS, FINISHES, AND OTHER NON-STRUCTURAL ITEMS NOT SHOWN OR SPECIFIED ON STRUCTURAL DRAWINGS. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS NOTED OTHERWISE.

**CONSTRUCTION NOTES**

- A. THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER AT LEAST 48 HOURS IN ADVANCE FOR REVIEW AND OBSERVATION OF REINFORCING AND CONCRETE POURS.
- B. CONSTRUCTION LOADING SHALL NOT EXCEED THE DESIGN LIVE LOAD UNLESS SPECIAL SHORING IS PROVIDED. ALLOWABLE LOADS SHALL BE REDUCED IN AREAS WHERE THE STRUCTURE HAS NOT ATTAINED ITS FULL DESIGN STRENGTH.
- C. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, WORKMANSHIP AND JOB SAFETY INCLUDING FALSEWORK, BRACINGS, MUD SILLS, OTHER TEMPORARY ITEMS USED FOR THE CONSTRUCTION OF THE PROJECT AND PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY REGULATORY AGENCIES.

**EARTHWORK NOTES**

- A. SHALLOW FOUNDATION DESIGN IS BASED ON A BEARING CAPACITY OF 5,000 PSF FOR TYPICAL FOUNDATIONS FOUNDED ON DENSE FILL.
- B. CLEAN AND MOISTEN FOOTING TRENCHES PRIOR TO POURING CONCRETE. WHERE SHRINKAGE CRACKS ARE NOTED AFTER COMPACTION OF THE FOOTING SUBGRADE, THE SOIL SHALL BE MOISTENED TO CLOSE ALL CRACKS.
- C. ALL FOOTING EXCAVATIONS, FILL AND BACKFILL OPERATIONS SHALL BE MONITORED BY AND APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF ANY REINFORCING STEEL OR CONCRETE. CONTRACTOR SHALL MAKE APPROPRIATE ARRANGEMENTS FOR OBSERVATIONS A MINIMUM OF 48 HOURS IN ADVANCE.

**STRUCTURAL STEEL NOTES**

- A. UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEEL MEMBERS, BOLTS, ANCHOR BOLTS, SHALL CONFORM TO:
  - 1. W-SHAPES: ASTM A992 Fy 50 KSI
  - 2. ANGLES, PLATES, CHANNELS, RODS: ASTM A36 Fy 36 KSI
  - 3. HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A500 GRADE B Fy 42 KSI
  - 4. ERECTION BOLTS: ASTM A307
  - 5. BOLTS: ASTM A325
  - ANCHOR BOLTS: ASTM F1554
- B. WELDING, WHETHER SHOP OR FIELD, SHALL BE BY CERTIFIED WELDERS ONLY.
- C. WELDING ELECTRODES SHALL BE GRADE E-70XX IN ACCORDANCE WITH AWS D1.1.
- D. ALL STRUCTURAL STEEL SURFACES SHALL BE HOT-DIP GALVANIZED. UNLESS OTHERWISE SHOWN, ALL EMBEDDED BOLTS, ANCHORS, PLATES, INSERTS, ETC. SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.

**CONCRETE NOTES**

- A. ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS AND A MAXIMUM WATER/CEMENT RATIO OF 0.50 AND A MAXIMUM AGGREGATE SIZE OF 3/4".
- B. ALL LIGHT-WEIGHT CELLULAR CONCRETE USED FOR BACKFILL SHALL HAVE A MAXIMUM UNIT WEIGHT OF 45 PCF AND MINIMUM COMPRESSIVE STRENGTH OF 80 PSI AT 28 DAYS. USE MIX NUMBER 01L35CN BY ISLAND READY MIX OR AN APPROVED EQUAL.
- C. ADMIXTURES MAY BE USED AS CONTRACTORS OPTION BUT SUBJECT TO ENGINEERS APPROVAL.
- D. THE USE OF ANY CALCIUM CHLORIDE IN ANY CONCRETE IS PROHIBITED.

**REINFORCING STEEL NOTES**

- A. UNLESS OTHERWISE NOTED ON PLANS, ALL REINFORCING BARS SHALL BE ASTM A615 GRADE 60. WHERE WELDING OF REINFORCING STEEL IS REQUIRED, ASTM A703 GRADE 60 SHALL BE USED.
- B. SPLICES SHALL BE IN ACCORDANCE WITH ACI 318-14. SPLICE LENGTH SHALL NOT BE LESS THAN 48 BAR DIAM. OR 24" WHICHEVER GREATER. STAGGER SPLICES.
- C. MINIMUM CONCRETE CLEAR COVER:
  - 1. CONCRETE POURED AGAINST EARTH ----- 3"
  - 2. CONCRETE POURED AGAINST FORMS AND LATER EXPOSED TO WEATHER OR GROUND
    - a. #5 BAR OR SMALLER ----- 1 1/2"
    - b. #6 BAR OR LARGER ----- 2"
  - 3. CONCRETE NOT EXPOSED TO WEATHER OR GROUND ----- 1 1/2"
- D. BAR BENDS, HOOKS, AND OFFSETS SHALL BE IN ACCORDANCE WITH THE ACI RECOMMENDATIONS.

**COLD-FORMED METAL FRAMING NOTES**

- A. LIGHT GAUGE COLD FORMED STEEL MEMBERS ARE TO BE MANUFACTURED BY A MEMBER OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA). ALL MEMBERS ARE DESIGNATED PER SSMA STANDARDS.
- B. ALL LIGHT GAGE METAL FRAMING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AISI "SPECIFICATIONS FOR DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" AND ASTM A1003 LATEST EDITION.
- C. MEMBERS ARE TO COMPLY WITH ICC EVALUATION REPORT NO. 4443P.
- D. MEMBERS ARE TO BE GALVANIZED IN ACCORDANCE WITH ASTM A525.
- E. SHOP DRAWINGS SUBMITTALS SHALL BE ACCOMPANIED BY MANUFACTURERS PRODUCT INFORMATION AND OTHER DATA NEEDED TO VERIFY COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
- F. UNLESS OTHERWISE NOTED, ALL LIGHT-GAGE METAL FRAMING SHALL CONFORM WITH THE FOLLOWING:
  - 1. GALVANIZED STUDS #10 - 16 GAUGE ASTM A53 GRADE 50 COATING
  - 2. GALVANIZED STUDS #18 OR 20 GAUGE ASTM A53 GRADE 33 COATING
  - 3. GALVANIZED TRACK, END CLOSURES, BRIDGING AND ACCESSORIES ASTM A53 GRADE 50 COATING
- G. LIGHT-GAGE FRAMING SHALL BE THE SIZE AND GAUGE INDICATED ON THE DRAWINGS.
- H. ALL SHEET METAL SCREWS SHALL PROTRUDE A MINIMUM OF 1/4" THRU METAL FRAMING.

**EPOXY ANCHOR BOLT ADHESIVE**

- A. EPOXY ANCHOR BOLT ADHESIVES SHALL BE TWO-COMPONENT HIGH-SOLIDS EPOXY BASED SYSTEM SUPPLIED THROUGH A MIXING NOZZLE PROVIDED BY THE MANUFACTURER. THE ADHESIVE ANCHOR SHALL HAVE BEEN TESTED AND QUALIFIED FOR PERFORMANCE IN UNCRACKED CONCRETE, CRACKED CONCRETE OR MASONRY WHICHEVER IS APPLICABLE IN ACCORDANCE WITH ICC-ES.
- B. THE ADHESIVE SHALL BE DESIGNED FOR SEISMIC APPLICATIONS.
- C. ALL MANUFACTURERS PREPARATION, INSTALLATION AND SETTING PROCEDURES SHALL BE FOLLOWED IN STRICT ACCORDANCE.

**SPECIAL INSPECTION NOTES**

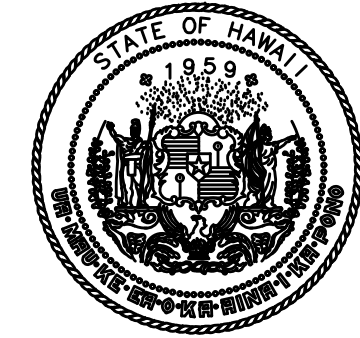
- A. SPECIAL INSPECTION PROVISIONS OF CHAPTER 17 OF THE 2018 INTERNATIONAL BUILDING CODE GOVERNS PORTIONS OF THE STRUCTURAL WORK AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS. THE SPECIAL INSPECTOR SHALL BE HIRED BY THE OWNER.
- B. THE MINIMUM RESPONSIBILITIES OF THE SPECIAL INSPECTOR SHALL BE OUTLINED IN THE "SPECIAL INSPECTION RECOMMENDED STANDARD OF PRACTICE" 2ND EDITION PUBLISHED BY THE STRUCTURAL ENGINEERS ASSOCIATION OF HAWAII.
- C. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY THE SPECIAL INSPECTOR FOR ALL ITEMS REQUIRING SPECIAL INSPECTION A MINIMUM OF 48 HOURS IN ADVANCE.
- D. SPECIAL INSPECTIONS DO NOT RELIEVE THE GENERAL CONTRACTOR OF HIS RESPONSIBILITIES TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND TO BE RESPONSIBLE FOR THE SAFETY OF THE JOB SITE.
- E. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT TO THE BUILDING DEPARTMENT ARCHITECT, STRUCTURAL ENGINEER AND OWNER STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS TO THE BEST OF HIS/HER KNOWLEDGE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE BUILDING CODE.
- F. THE SPECIAL INSPECTOR SHALL BE CERTIFIED AS A SPECIAL INSPECTOR BY THE BUILDING DEPARTMENT OF THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO).
- G. THE FOLLOWING STRUCTURAL WORK FOR THIS PROJECT REQUIRE SPECIAL INSPECTIONS AS NOTED BELOW:
  - 1. CONCRETE AND CONCRETE REINFORCING STEEL
  - 2. BOLTS AND EMBEDS INSTALLED IN CONCRETE
  - 3. STRUCTURAL STEEL
  - 4. EXPANSION ANCHORS AND ADHESIVE BOLT, BAR OR DOWEL INSTALLATION

**DESIGN DATA**

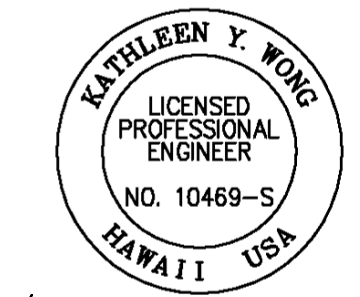
- A. BUILDING RISK CATEGORY ----- II
- B. LIVE LOADS:
  - 1. OFFICES ----- 50 PSF
- C. SUPERIMPOSED DEAD LOADS:
  - 1. MECHANICAL, ELECTRICAL, PLUMBING ----- 5 PSF
  - 2. CEILING ----- 5 PSF
- D. SEISMIC LOADS:
  - 1. RISK CATEGORY ----- II
  - 2. SEISMIC IMPORTANCE FACTOR ----- 1.00
  - 3. SEISMIC SITE CLASS ----- D ASSUMED
  - 4. Ss ----- 0.570
  - 5. S1 ----- 0.174
  - 6. Sds ----- 0.511
  - 7. Sd1 ----- 0.248
  - 8. SEISMIC RESISTING SYSTEM: INTERMEDIATE STEEL MOMENT FRAME
  - 9. RESPONSE MODIFICATION FACTOR, R ----- 4.5
  - 10. SYSTEM OVERSTRENGTH FACTOR ----- 3
  - 11. DEFLECTION AMPLIFICATION FACTOR ----- 4
  - 12. SEISMIC DESIGN CATEGORY ----- D
- E. WIND LOADS:
  - 1. RISK CATEGORY ----- II
  - 2. BASIC WIND SPEED ----- 131 MPH
  - 3. WIND IMPORTANCE FACTOR ----- 1.0
  - 4. WIND EXPOSURE ----- C
  - 5. ENCLOSED BUILDING
- F. FOUNDATION PARAMETERS - PER AS-BUILT DRAWINGS, "CONTINENTAL AIRLINES CARGO BUILDING" DATED FEB. 8, 1974:
  - 1. SHALLOW FOUNDATION BEARING CAPACITY ----- 5,000 PSF

**STANDARDS AND REFERENCES**

- A. INTERNATIONAL BUILDING CODE, INTERNATIONAL CODE COUNCIL, 2018 EDITION AS AMENDED BY STATE OF HAWAII.
- B. ASCE 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
- C. ACI 318-14, AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
- D. AISC 360-16, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
- E. ANSII/AISC 358-18W - PREQUALIFIED CONNECTIONS FOR SPECIAL AND INTERMEDIATE STEEL MOMENT FRAMES FOR SEISMIC APPLICATIONS INCLUDING SUPPLEMENT NO. 1
- F. AWS D1.1 - 2017, STRUCTURAL WELDING CODE - STEEL



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STATE OF HAWAII



*Kathleen Y. Wong*  
04/30/2024  
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DSGN.	DRWN.	CHKD.	APPD.
JP	JP	KW	

NO.	DATE	REVISIONS
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DATE

**PROJECT TITLE :**

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

**PROJECT NO.:**

**CO1325-33**

**SHEET TITLE:**

**STRUCTURAL GENERAL NOTES**

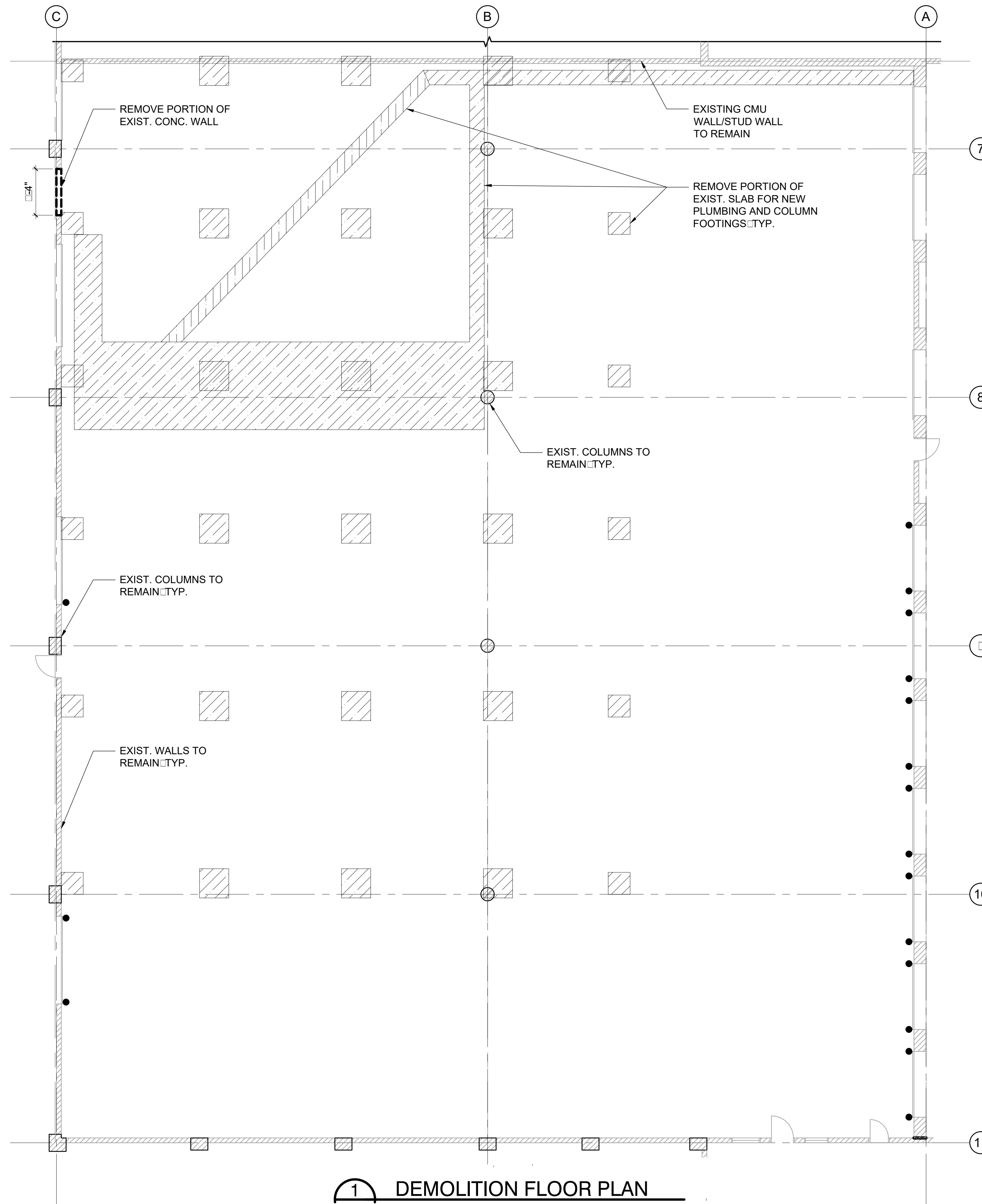
DATE : 05/10/23

SHEET : 26 OF 84 SHEETS

DWG. NO.

**S001**

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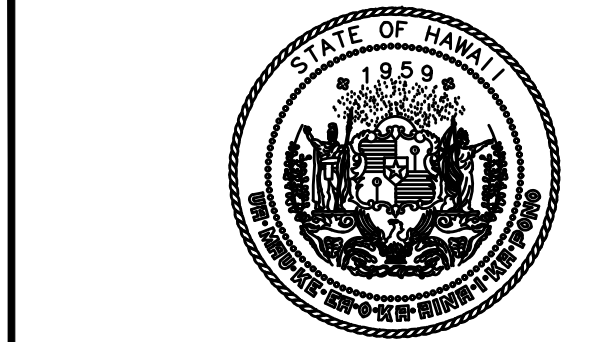
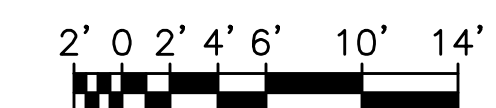
**DEMOLITION NOTES:**

- A. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND SHALL FAMILIARIZE HIMSELF AND VERIFY THE ACTUAL EXISTING CONDITIONS OF THE EXTERIOR AND INTERIOR BUILDING.
- B. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS SHOWN. NOTIFY THE ENGINEER IF ANY DISCREPANCIES ARE FOUND.
- C. DEMOLITION OF EXISTING CONCRETE SLAB SHALL BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, FIRE PROTECTION AND ELECTRICAL WORK.
- D. DEMOLITION OF EXISTING CONCRETE SLAB SHALL BE HANDLED IN A MANNER SO AS NOT TO DISTURB OR DAMAGE THE INTEGRITY OF THE EXISTING STRUCTURES.
- E. NOT ALL NEW PENETRATIONS REQUIRED FOR CONSTRUCTION ARE SHOWN ON THE CONTRACT DOCUMENTS. CONTRACTOR SHALL COORDINATE, LOCATE AND PROVIDE ALL NEW PENETRATIONS REQUIRED.
- F. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT THE EXISTING FLOOR FROM DAMAGE AND OVERLOAD.
- G. CONTRACTOR SHALL CUT THE DEMOLISHED SLABS INTO SMALL PIECES AND REMOVE FROM SITE.

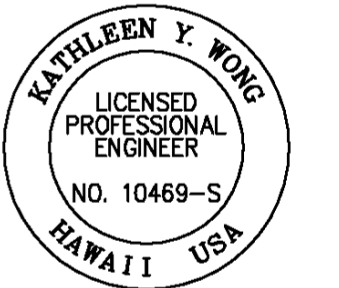
**LEGEND:**

- EXISTING STAIR AND SLAB TO BE DEMOLISHED
- EXISTING WALL AND SLAB TO REMAIN

**1** DEMOLITION FLOOR PLAN  
SD101 SCALE: 1/8" = 1'-0"



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DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



*Kathleen Wong*  
04/30/2024  
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JP	JP	KW	

NO.	DATE	REVISIONS

DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**DEMOLITION FLOOR PLAN**

DATE :

**05/10/23**

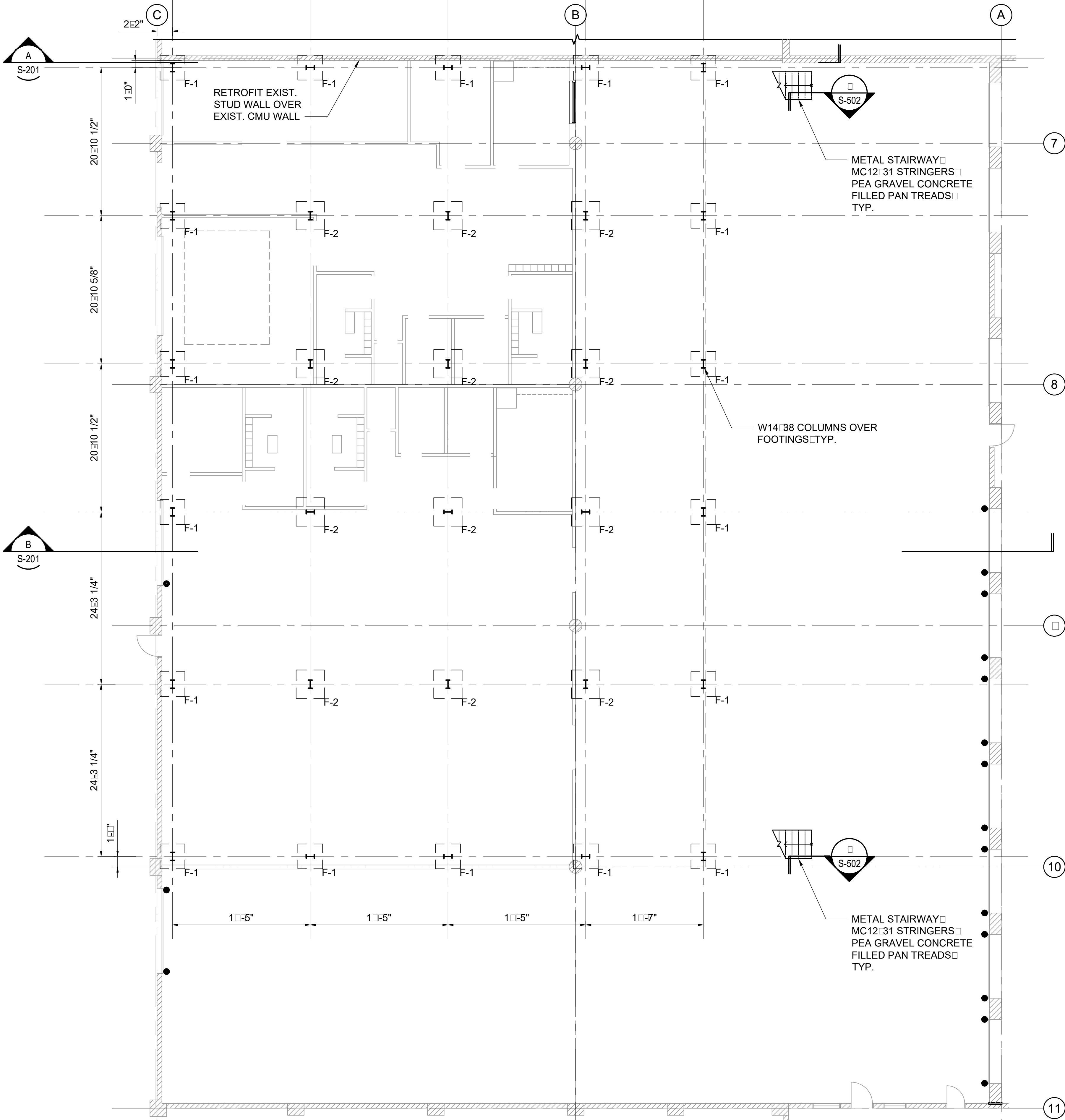
SHEET :

27 OF 84 SHEETS

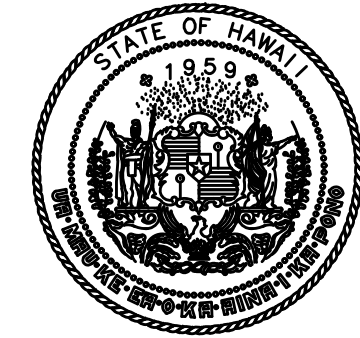
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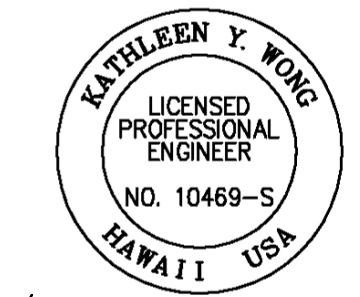
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**LEGEND:**  
 F1: 3x3x12" CONCRETE FOOTING :SEE SHEET S501  
 F2: 4x4x14" CONCRETE FOOTING :SEE SHEET S501



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AT DANIEL K. INOUE INTERNATIONAL AIRPORT  
 HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**GROUND FLOOR PLAN**

DATE :

**05/10/23**

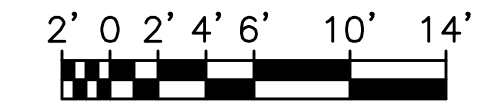
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28 OF 84 SHEETS

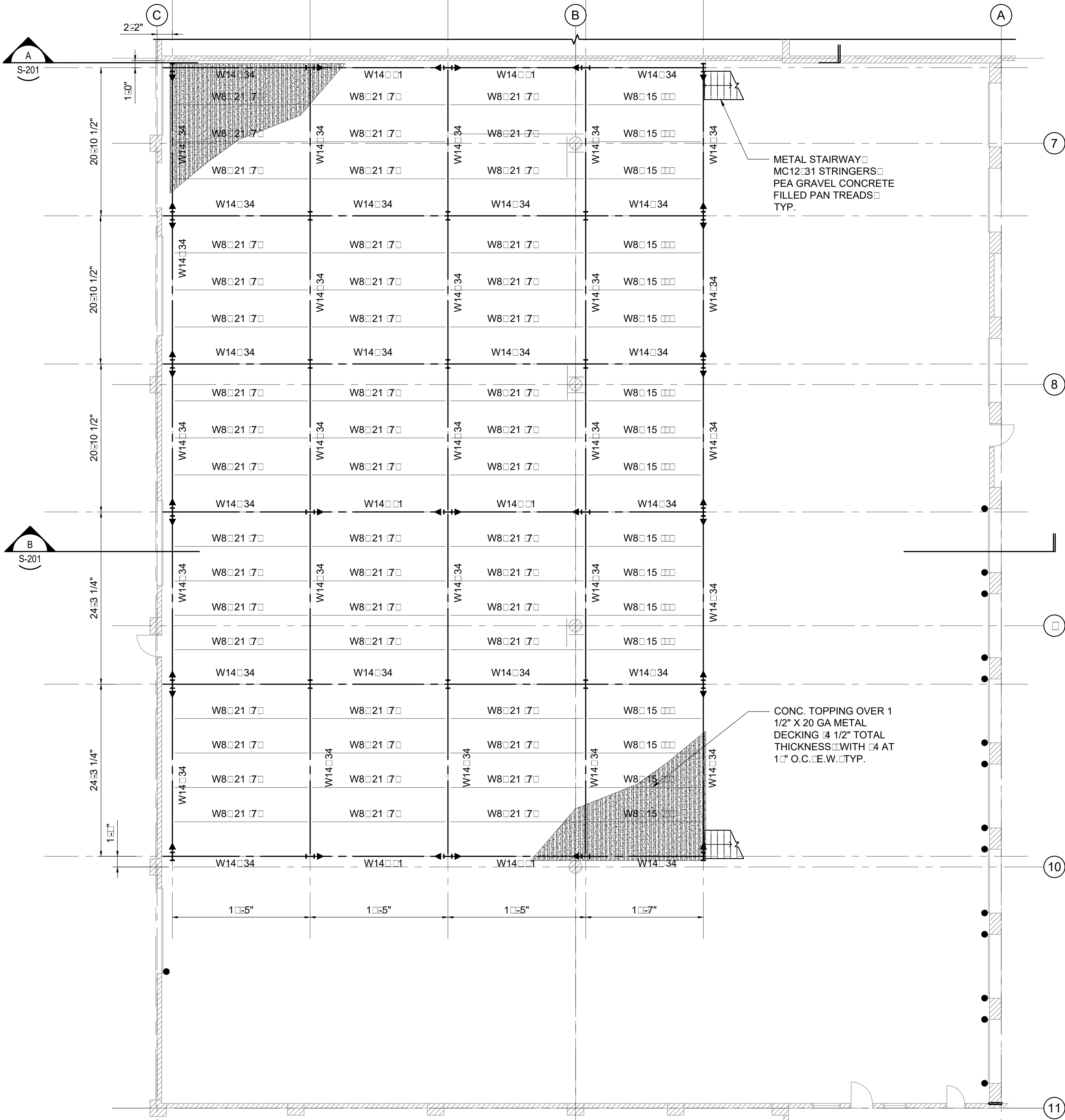
DWG. NO.

**S101**

**1 GROUND FLOOR PLAN**  
 S101 SCALE: 1/8" = 1'-0"



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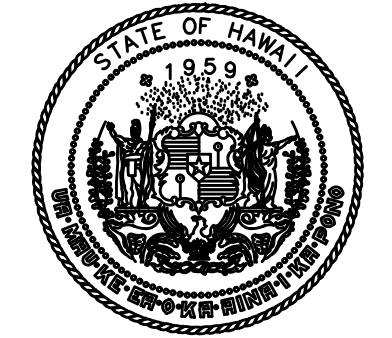


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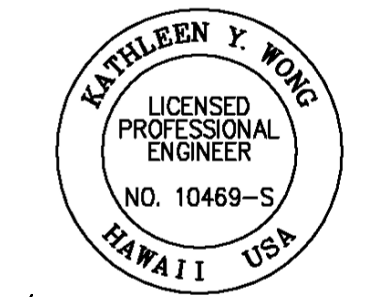
- >— STEEL MOMENT FRAME
- W8x15 □ □ W8x15 FRAMING BEAM WITH □ STUDS SPACED EQUALLY

METAL STAIRWAY  
 MC12x31 STRINGERS  
 PEA GRAVEL CONCRETE  
 FILLED PAN TREADS  
 TYP.

CONC. TOPPING OVER 1  
 1/2" X 20 GA METAL  
 DECKING 3/4 1/2" TOTAL  
 THICKNESS WITH #4 AT  
 1" O.C. E.W. TYP.



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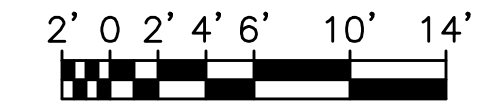
DATE : \_\_\_\_\_  
**PROJECT TITLE :**  
**CONVERT CARGO BUILDING  
 TO WORKSHOP**  
 AT  
 DANIEL K. INOUE INTERNATIONAL AIRPORT  
 HONOLULU, OAHU, HAWAII

**PROJECT NO.:**  
**CO1325-33**

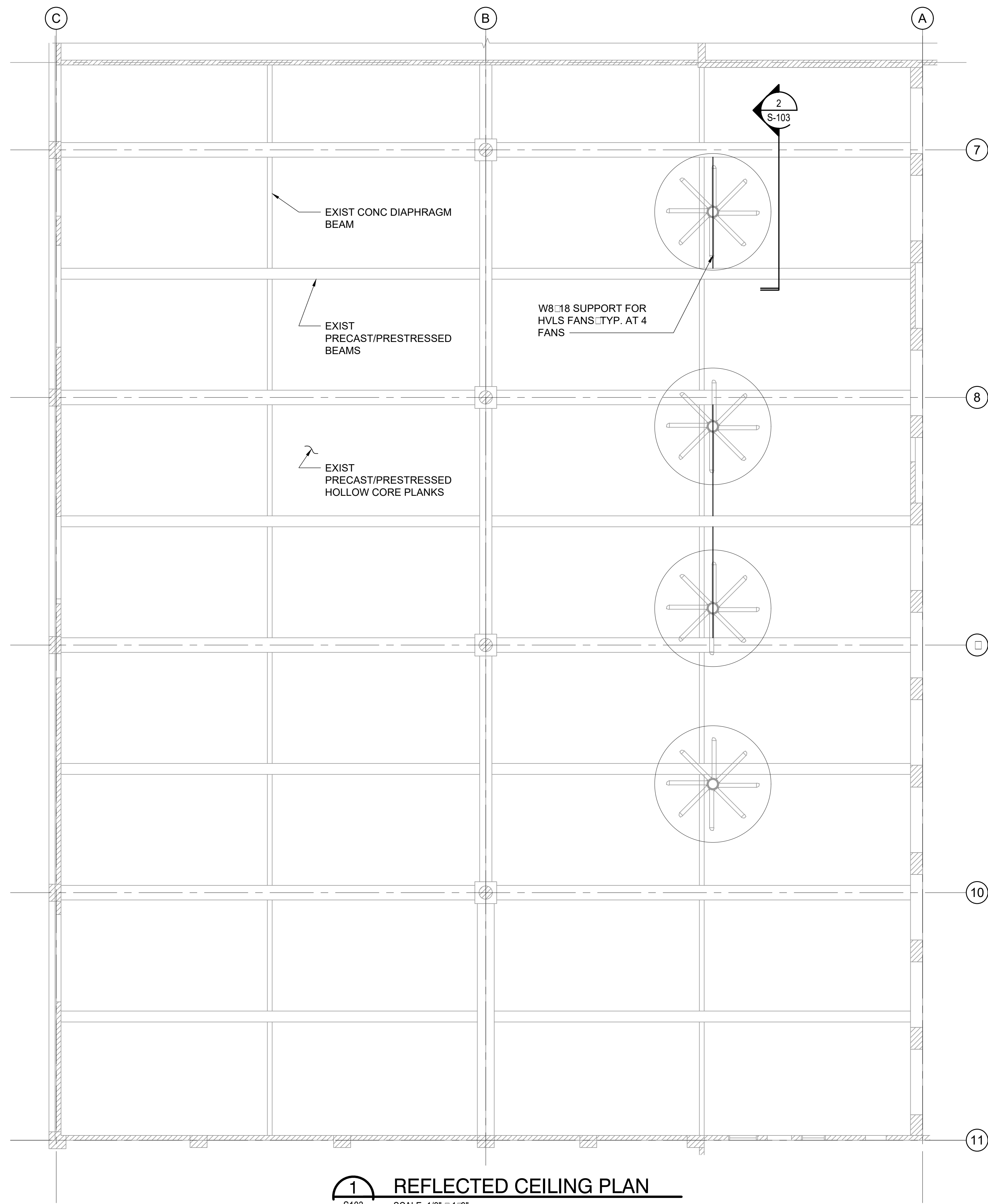
**SHEET TITLE:**  
**MEZZANINE FLOOR  
 PLAN**

DATE :	DWG. NO.
05/10/23	<b>S102</b>
SHEET :	
29 OF 84 SHEETS	

**1** MEZZANINE FLOOR PLAN  
 S102 SCALE: 1/8" = 1'-0"



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**1 REFLECTED CEILING PLAN**  
 S103 SCALE: 1/8" = 1'-0"

W8 BEAM CONNECTED TO EXIST. PRESTRESSED GIRDER AT MID-DEPTH (AVOID BOTTOM OF GIRDER DUE TO TENDONS)

3/4" DIA. EYEBOLT ATTACHED TO W8

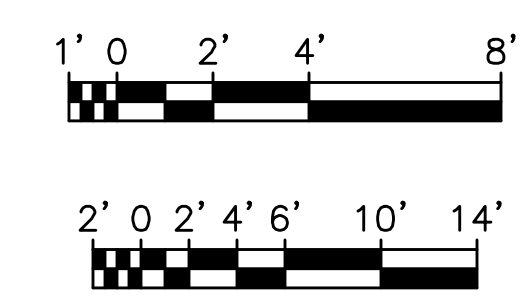
8 S-502

7 S-502

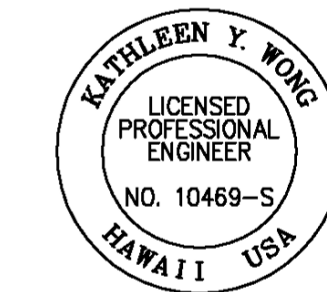
4 GUY WIRES BY FAN MANUF.

INDUSTRIAL FAN INSTALL AS PER MANUF. SPEC

**2 FAN SUPPORT SECTION**  
 S103 SCALE: 1/4" = 1'-0"



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DATE

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AT DANIEL K. INOUE INTERNATIONAL AIRPORT  
 HONOLULU, OAHU, HAWAII

PROJECT NO.:

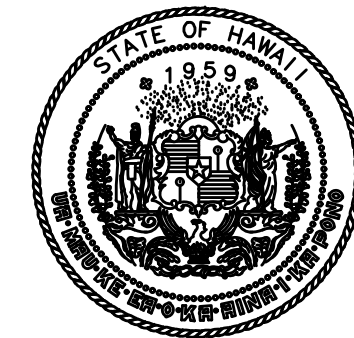
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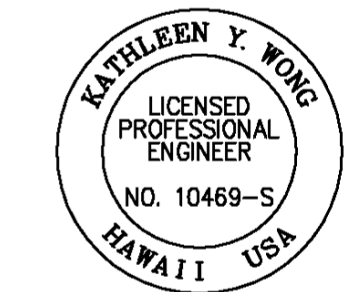
**REFLECTED CEILING PLAN**

DATE :	DWG. NO.
05/10/23	<b>S103</b>
SHEET :	
30 OF 84 SHEETS	

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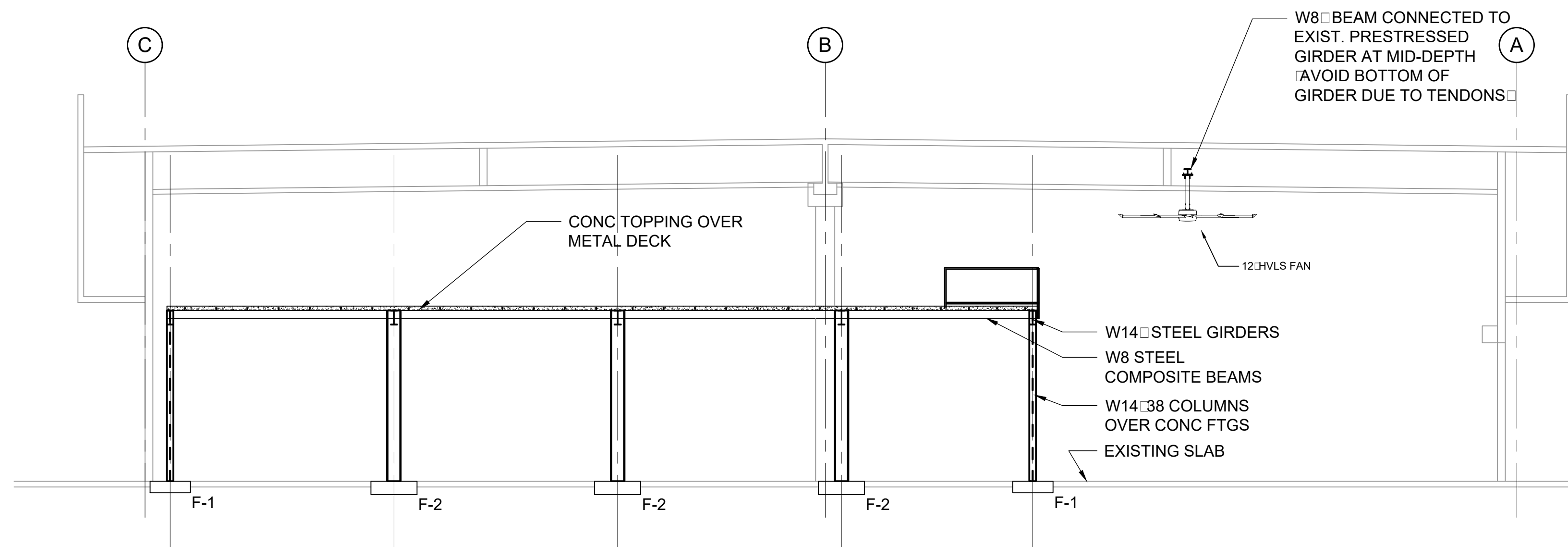
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STATE OF HAWAII



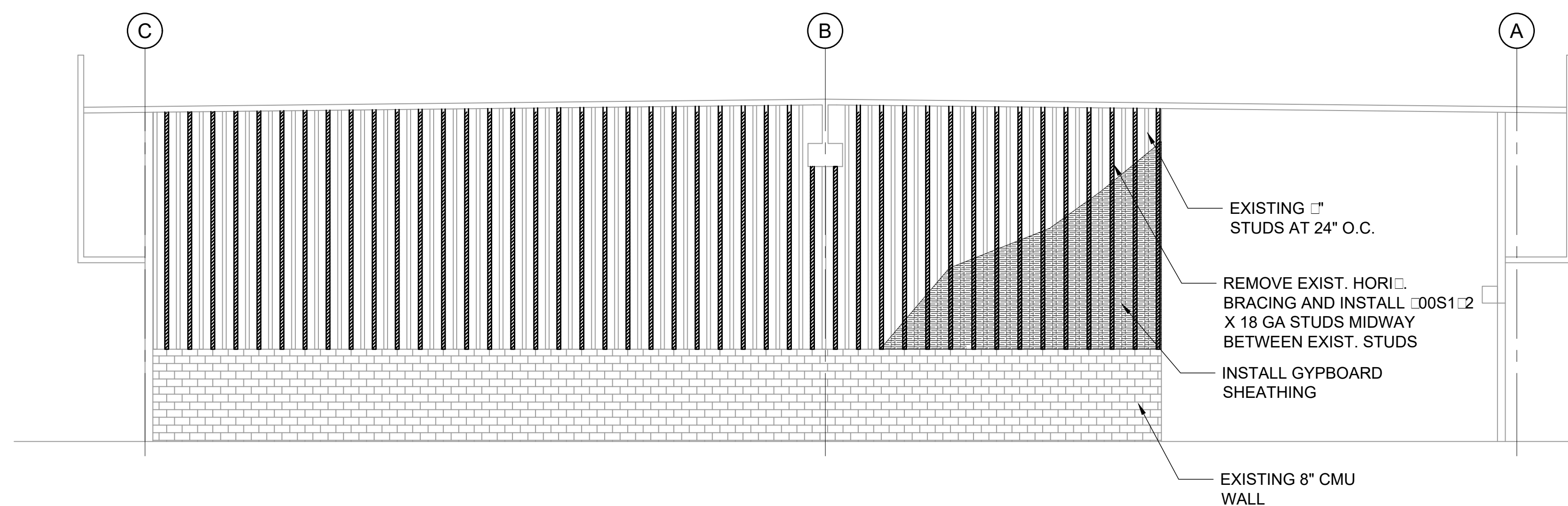
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**B BUILDING SECTION**  
S201 SCALE: 1/8" = 1'-0"



**A DEMISING WALL ELEVATION**  
S201 SCALE: 1/8" = 1'-0"

NO.	DATE	REVISIONS
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DATE

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**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

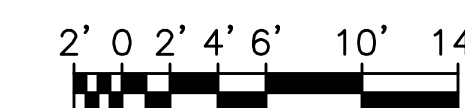
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**CO1325-33**

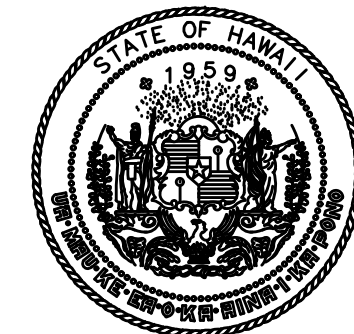
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**BUILDING SECTIONS**

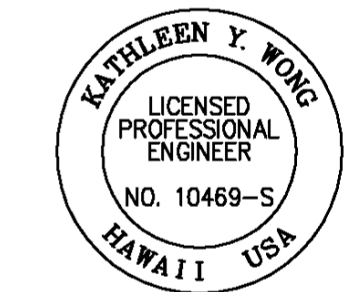
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05/10/23	<b>S201</b>
SHEET :	
31 OF 84 SHEETS	



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DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**FOUNDATION SECTIONS  
AND DETAILS**

DATE :

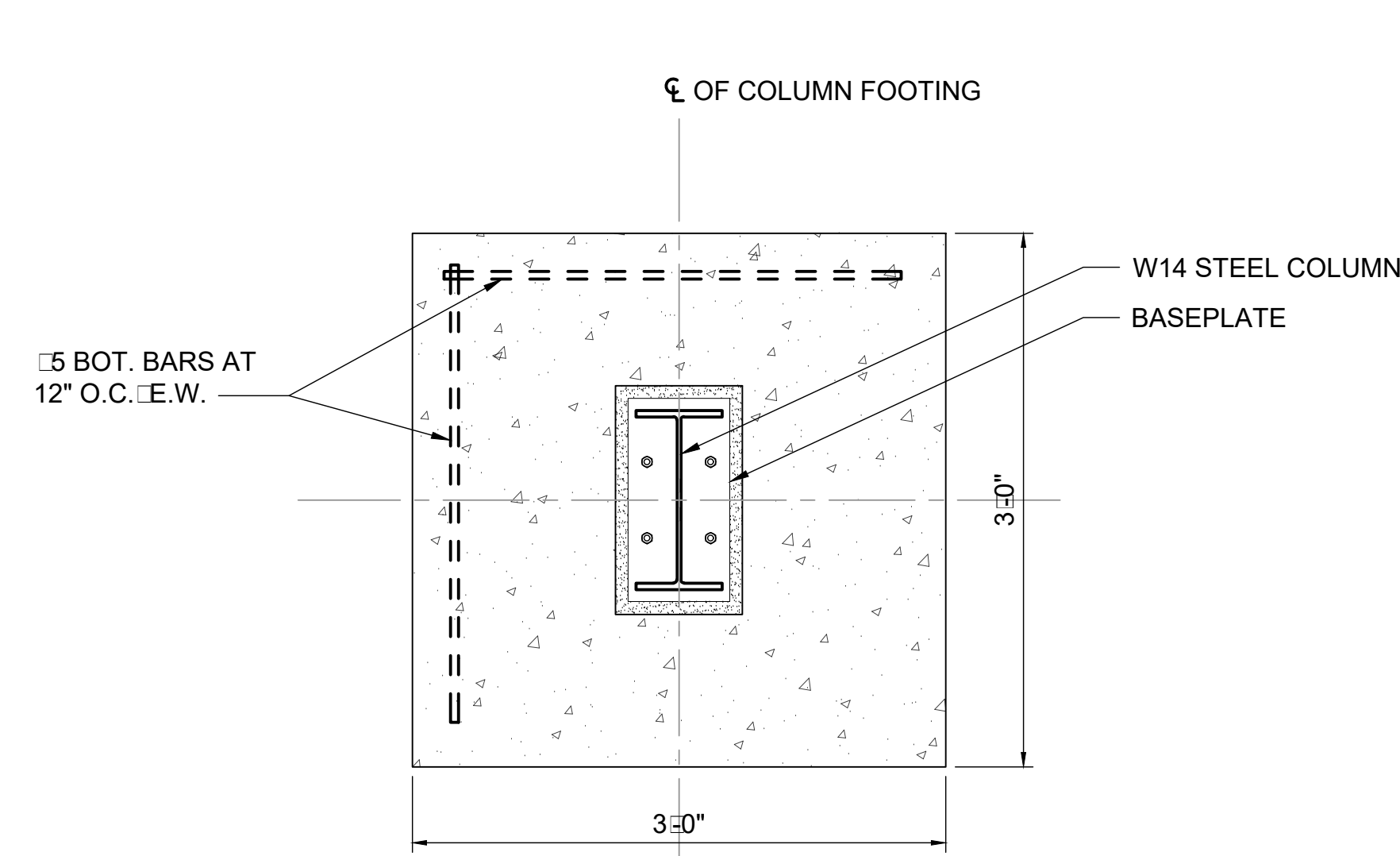
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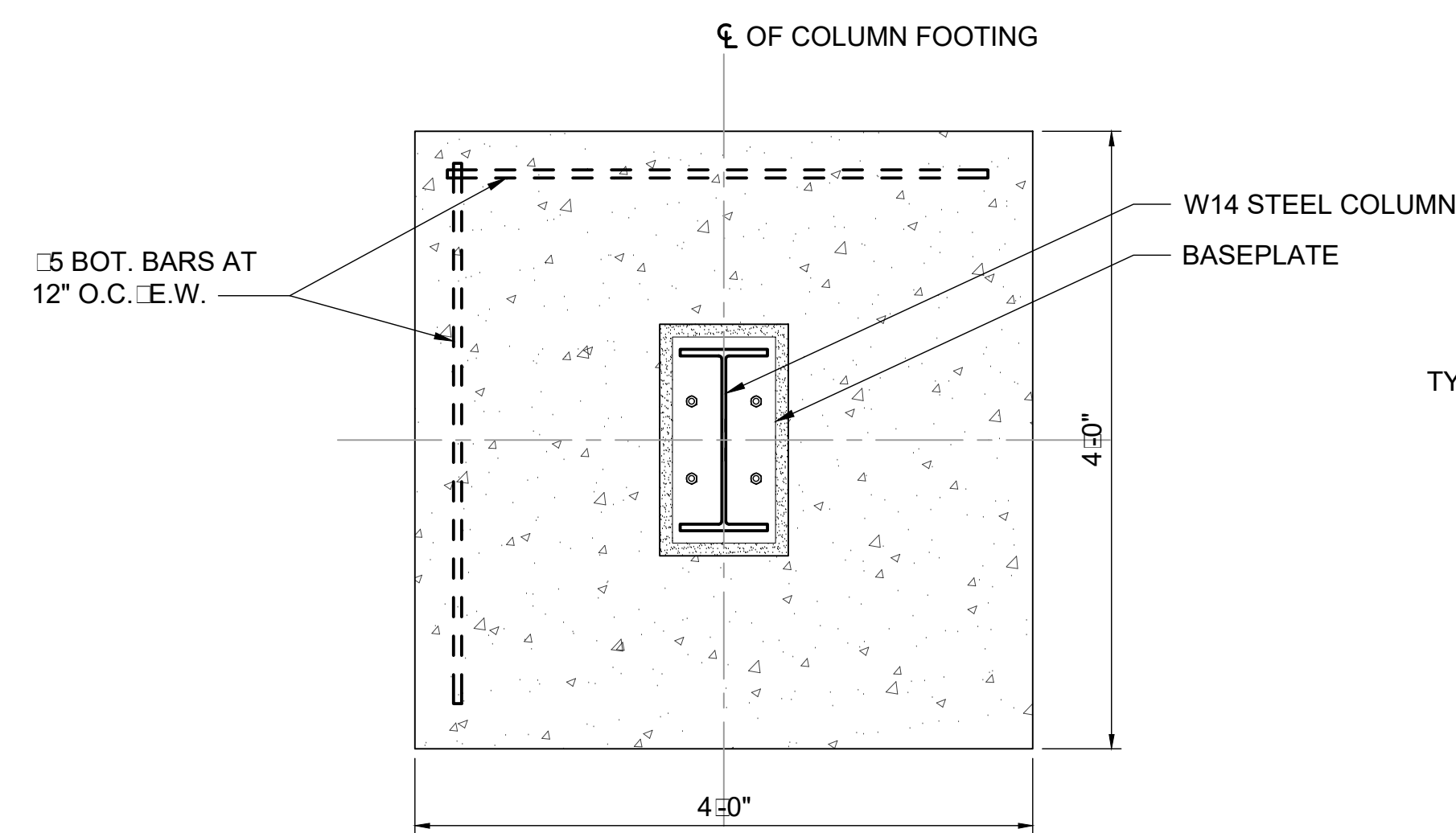
32 OF 84 SHEETS

DWG. NO.

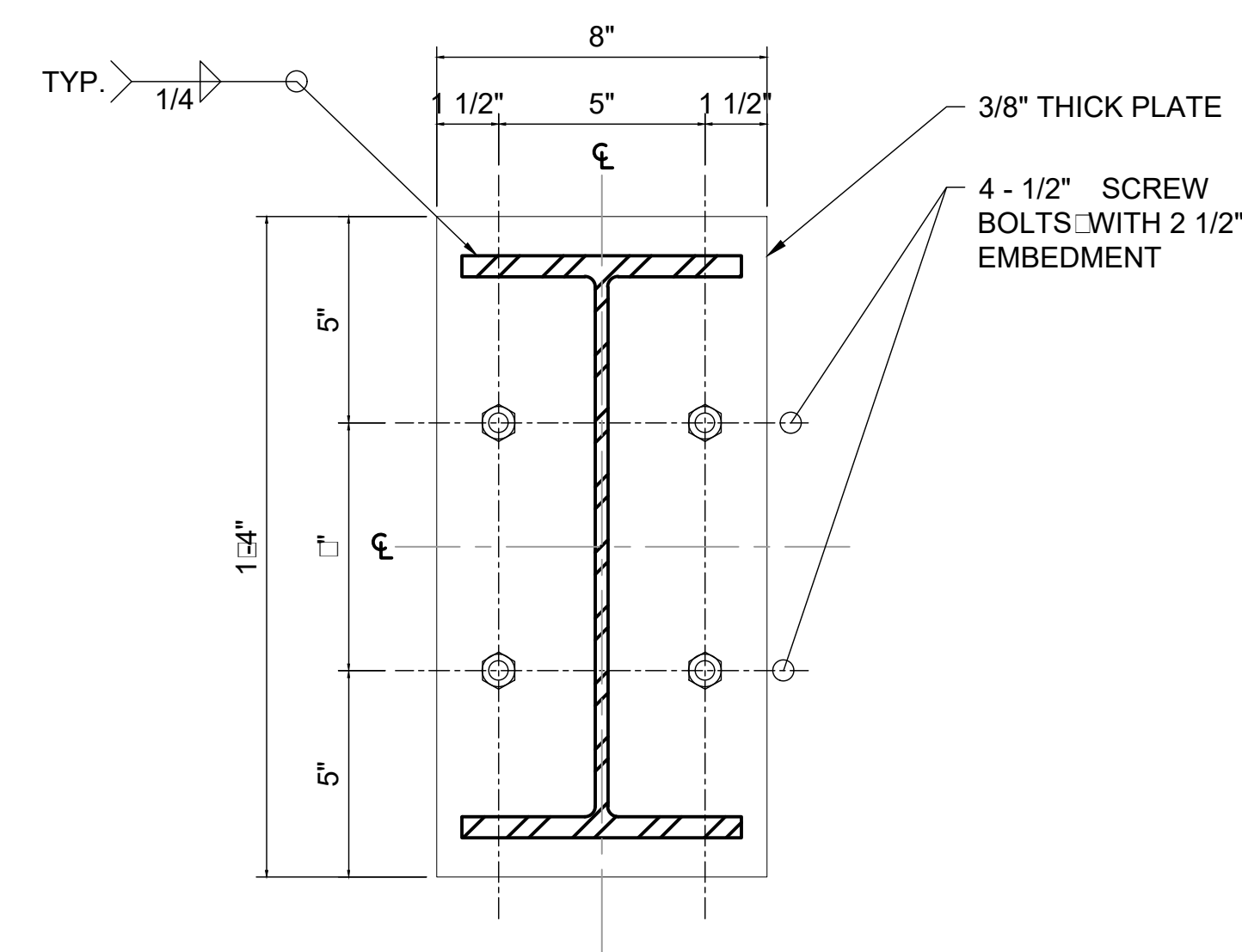
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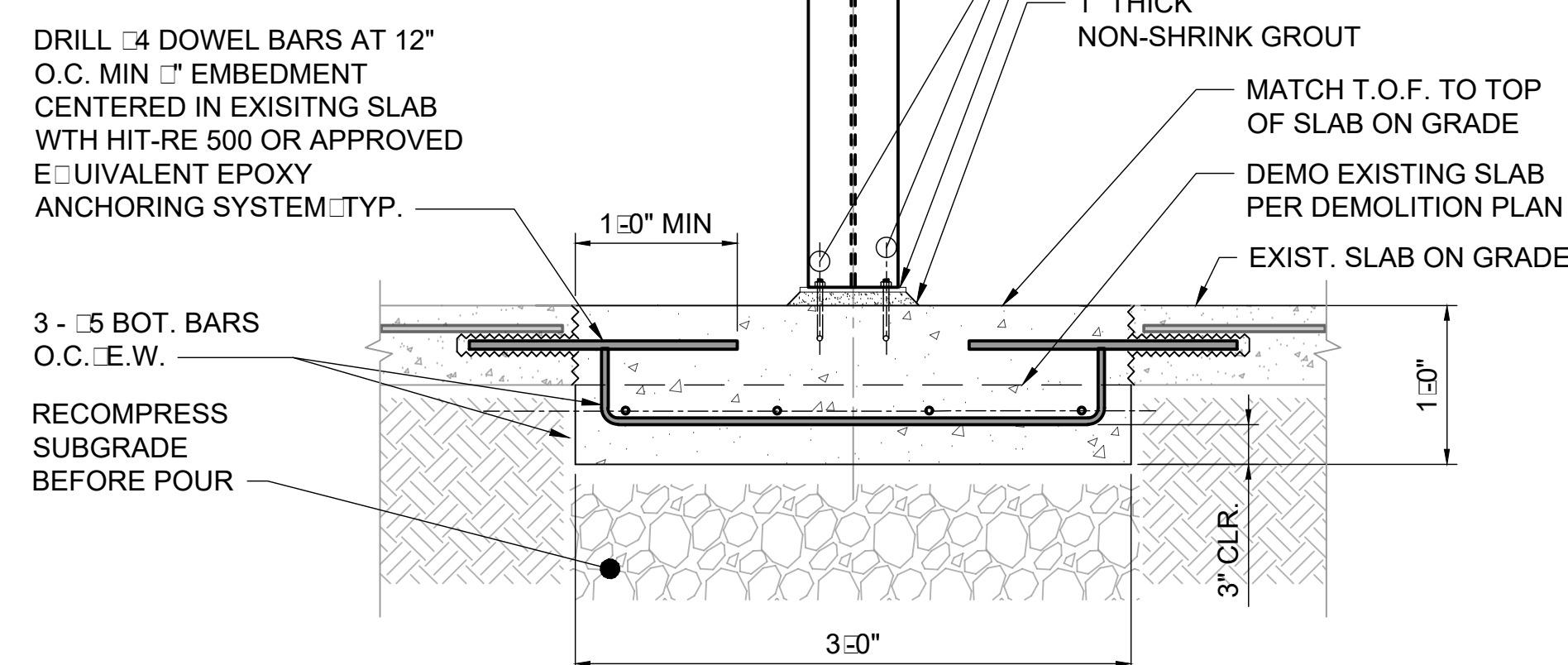
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PLAN

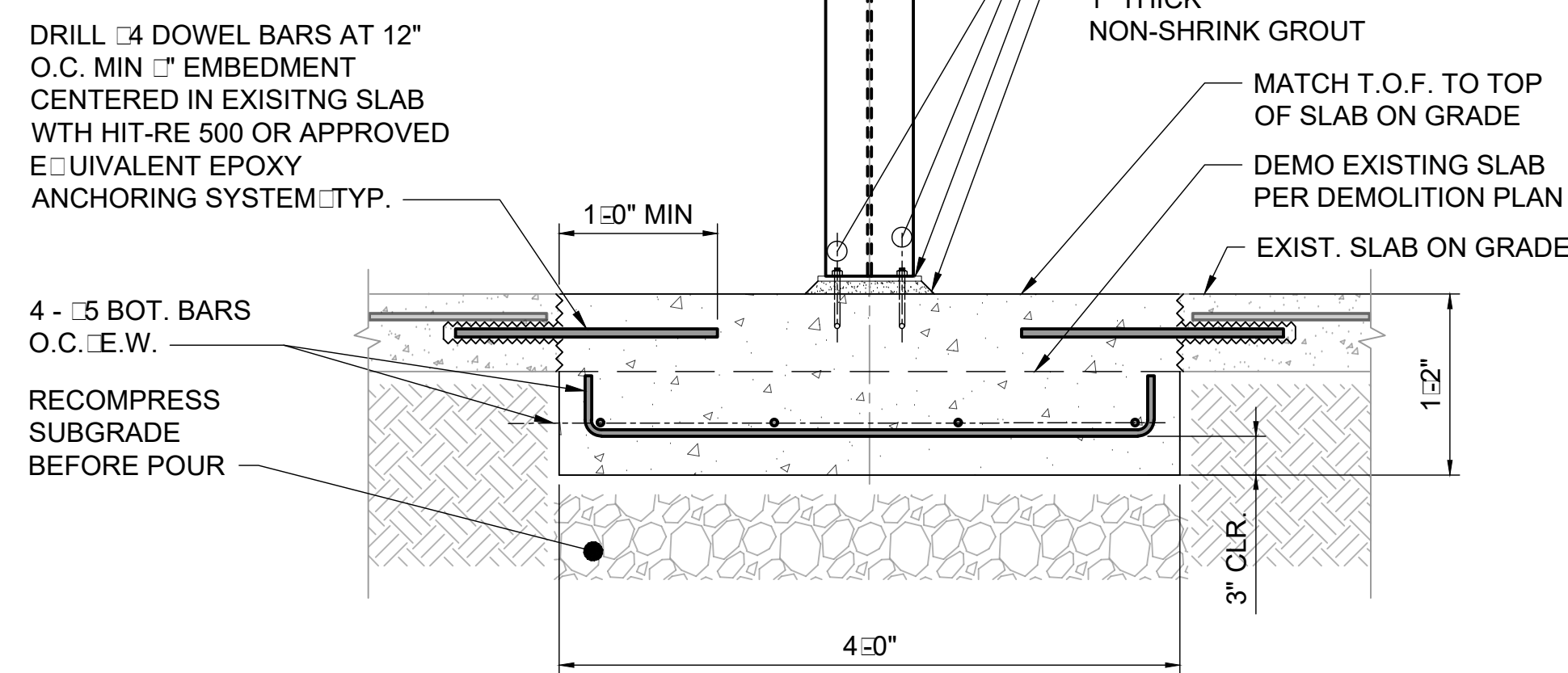


**3 BASE PLATE DETAIL**  
SCALE: 3" = 1'-0"



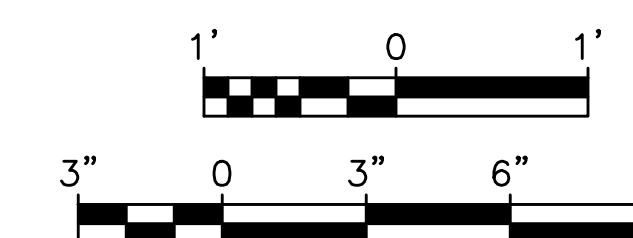
SECTION

**1 F1 FOOTING DETAIL**  
SCALE: 1" = 1'-0"

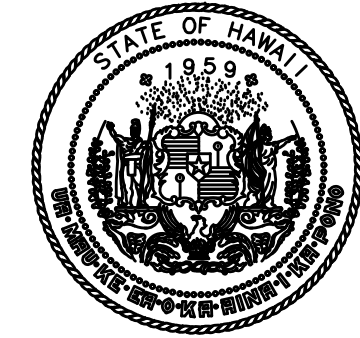


SECTION

**2 F2 FOOTING DETAIL**  
SCALE: 1" = 1'-0"



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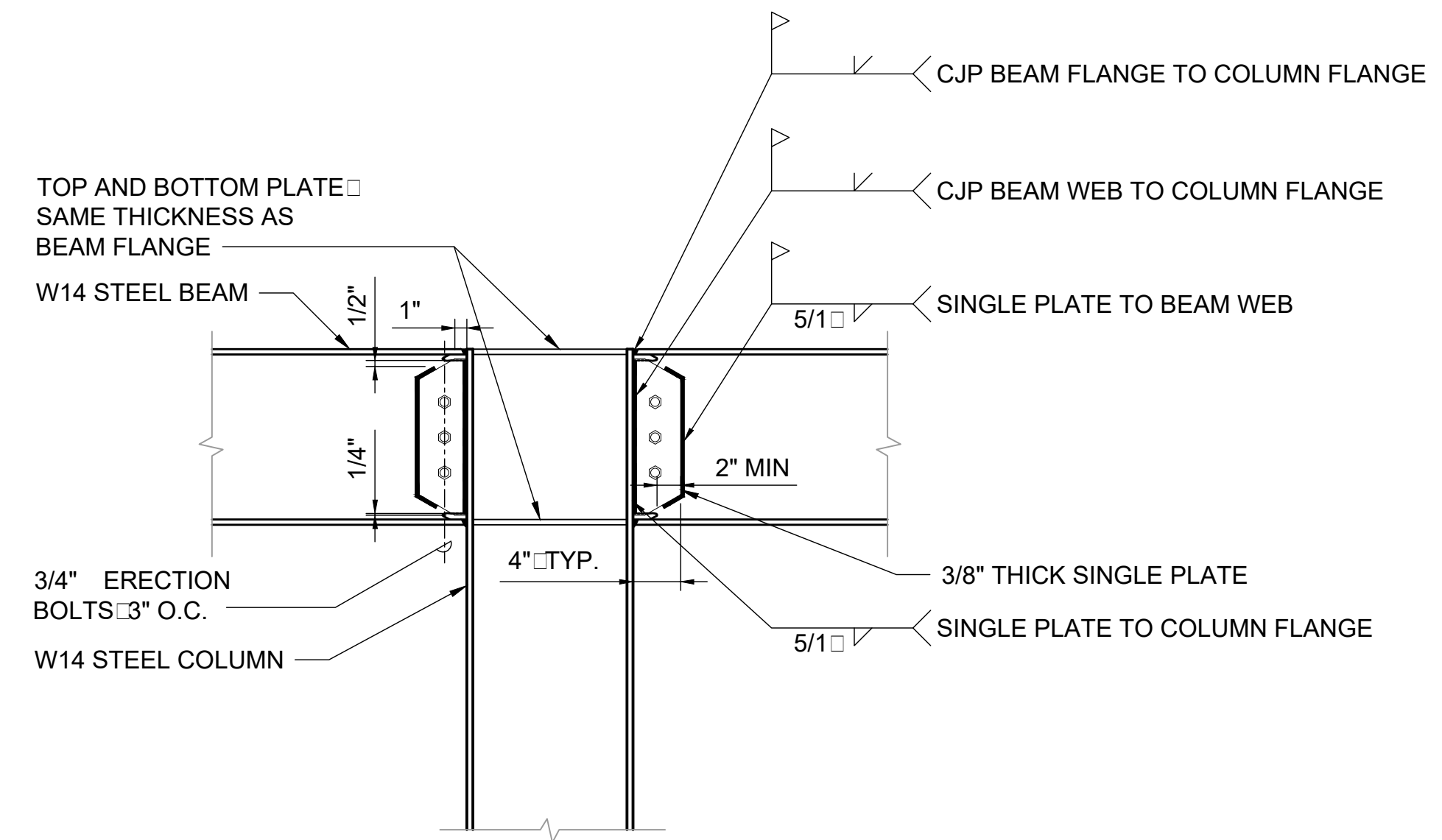
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STATE OF HAWAII



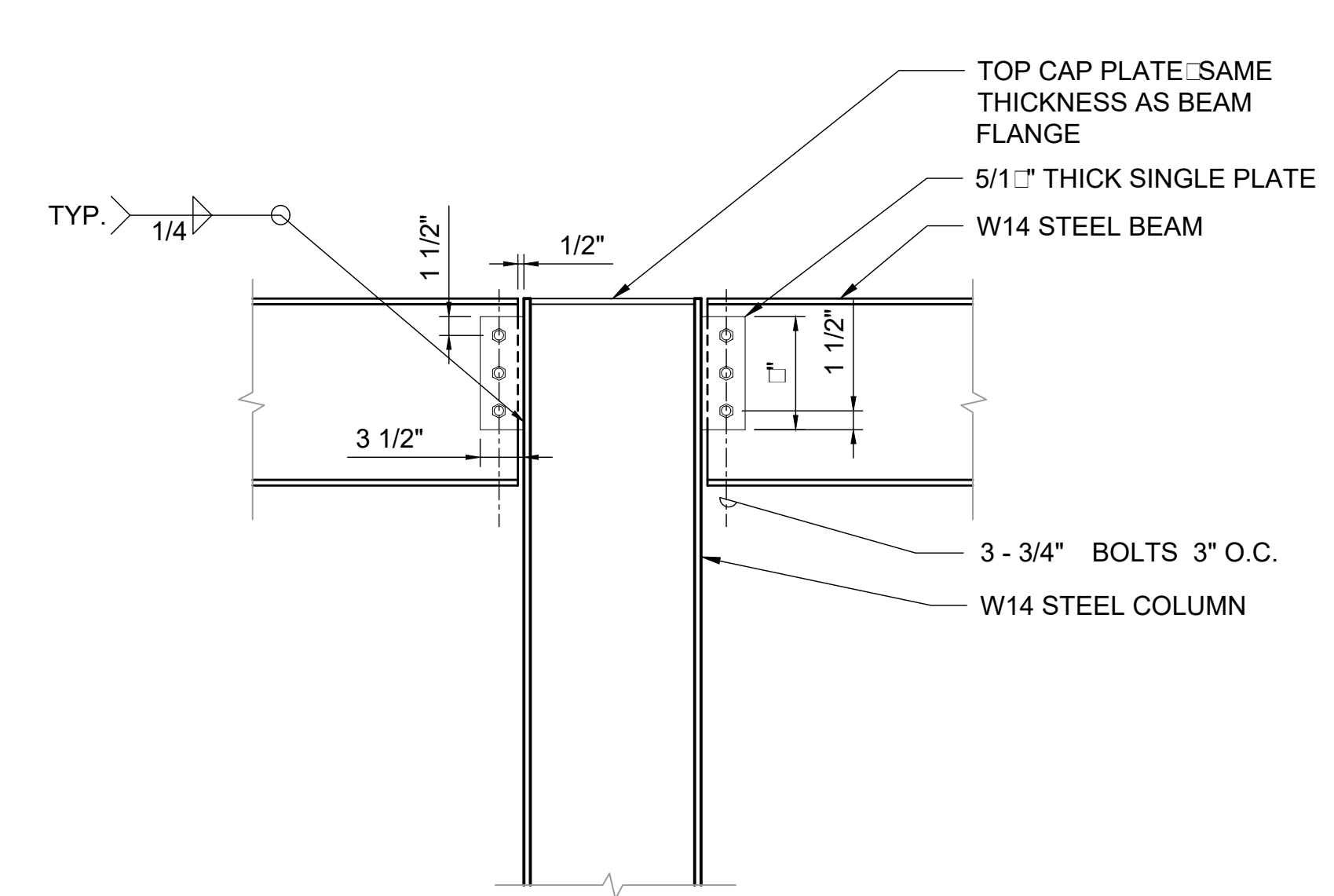
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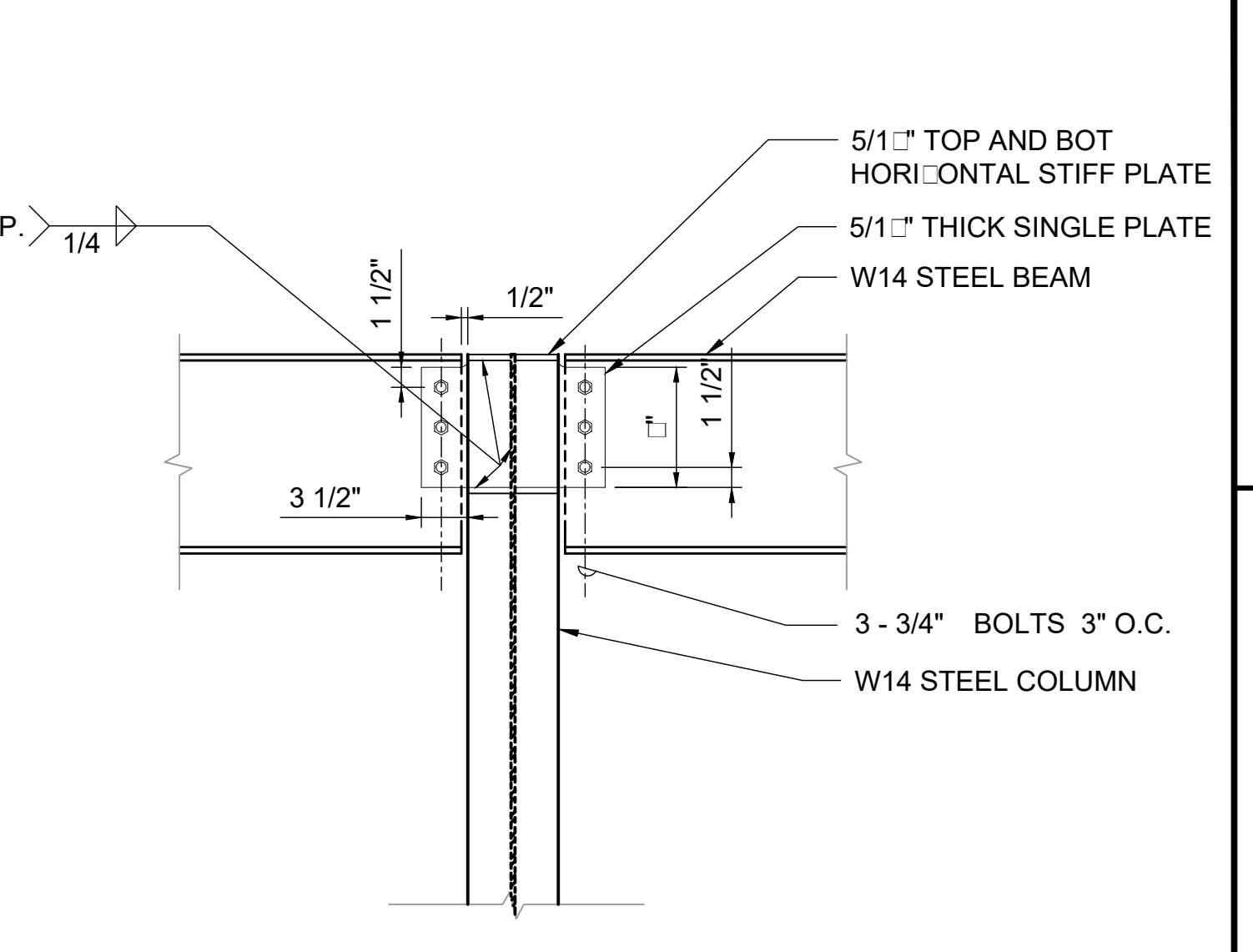
DSGN.	DRWN.	CHKD.	APPD.
JP	JP	KW	



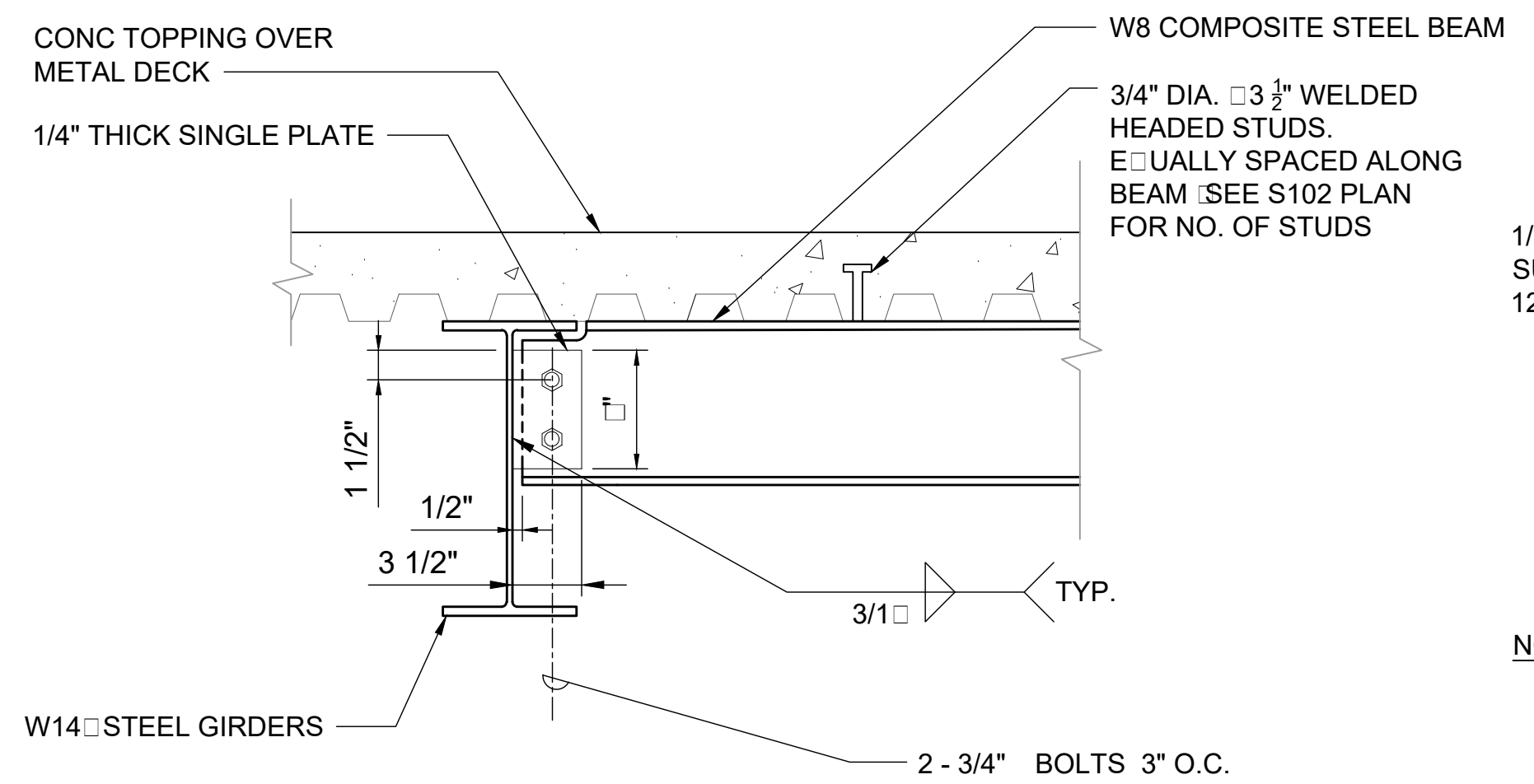
**1** MOMENT FRAME BEAM TO COLUMN CONNECTION  
S502 SCALE: 1" = 1'-0"



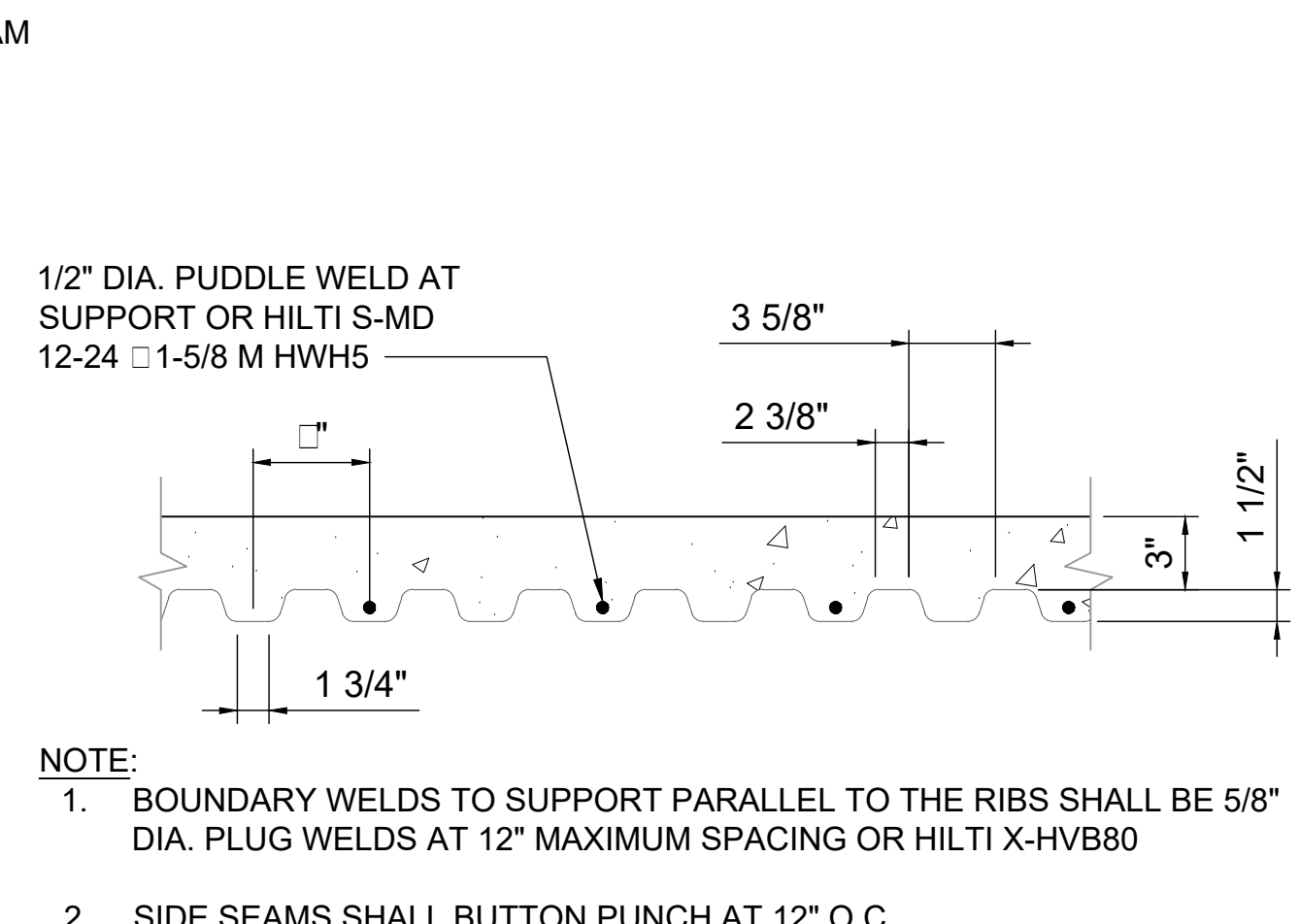
**2** BEAM TO COLUMN FLANGE CONNECTION  
S502 SCALE: 1" = 1'-0"



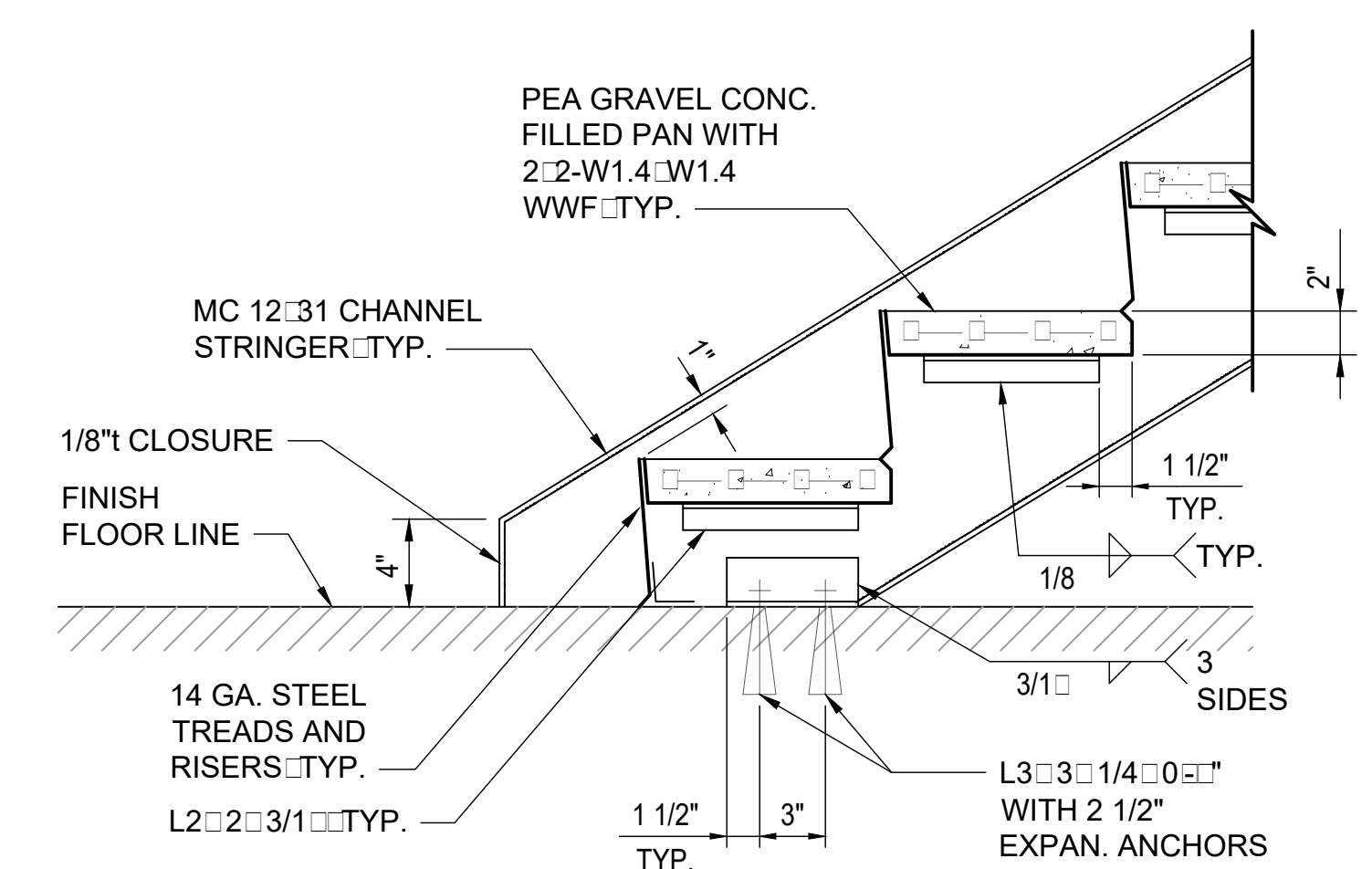
**3** BEAM TO COLUMN WEB CONNECTION  
S502 SCALE: 1" = 1'-0"



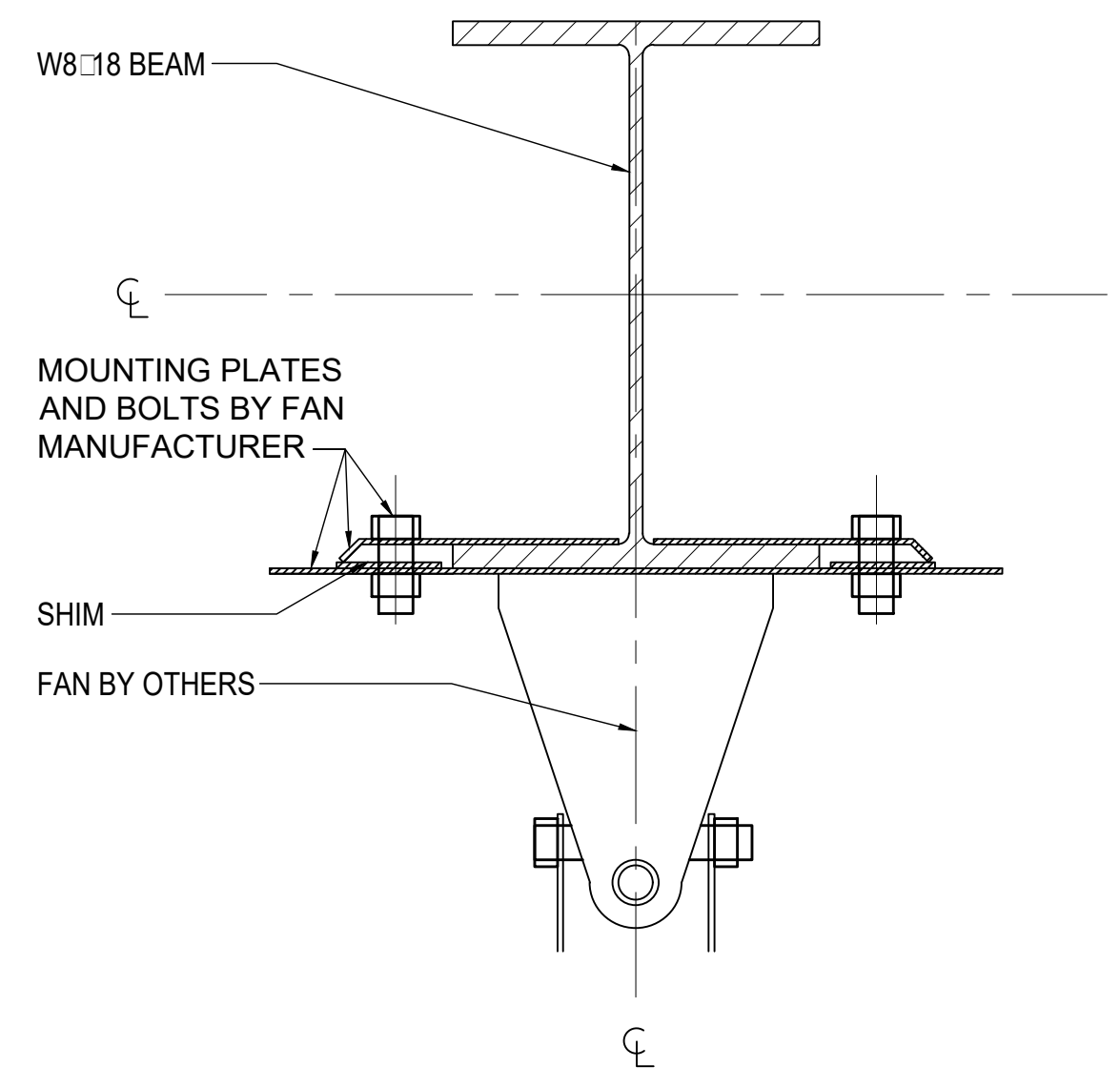
**4** BEAM TO BEAM CONNECTION  
S502 SCALE: 1 1/2" = 1'-0"



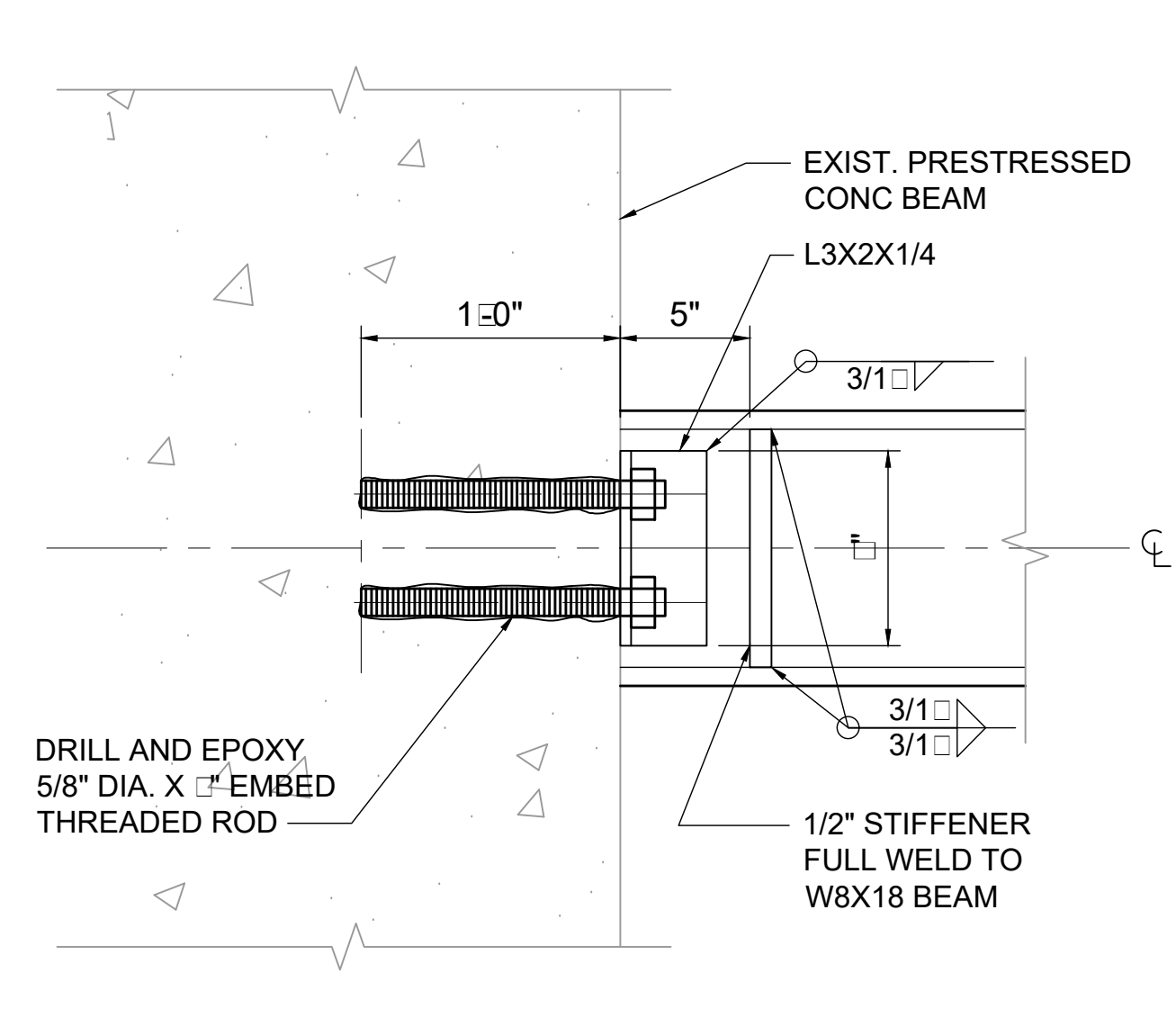
**5** TYPICAL METAL DECKING DETAIL  
S502 SCALE: 1 1/2" = 1'-0"



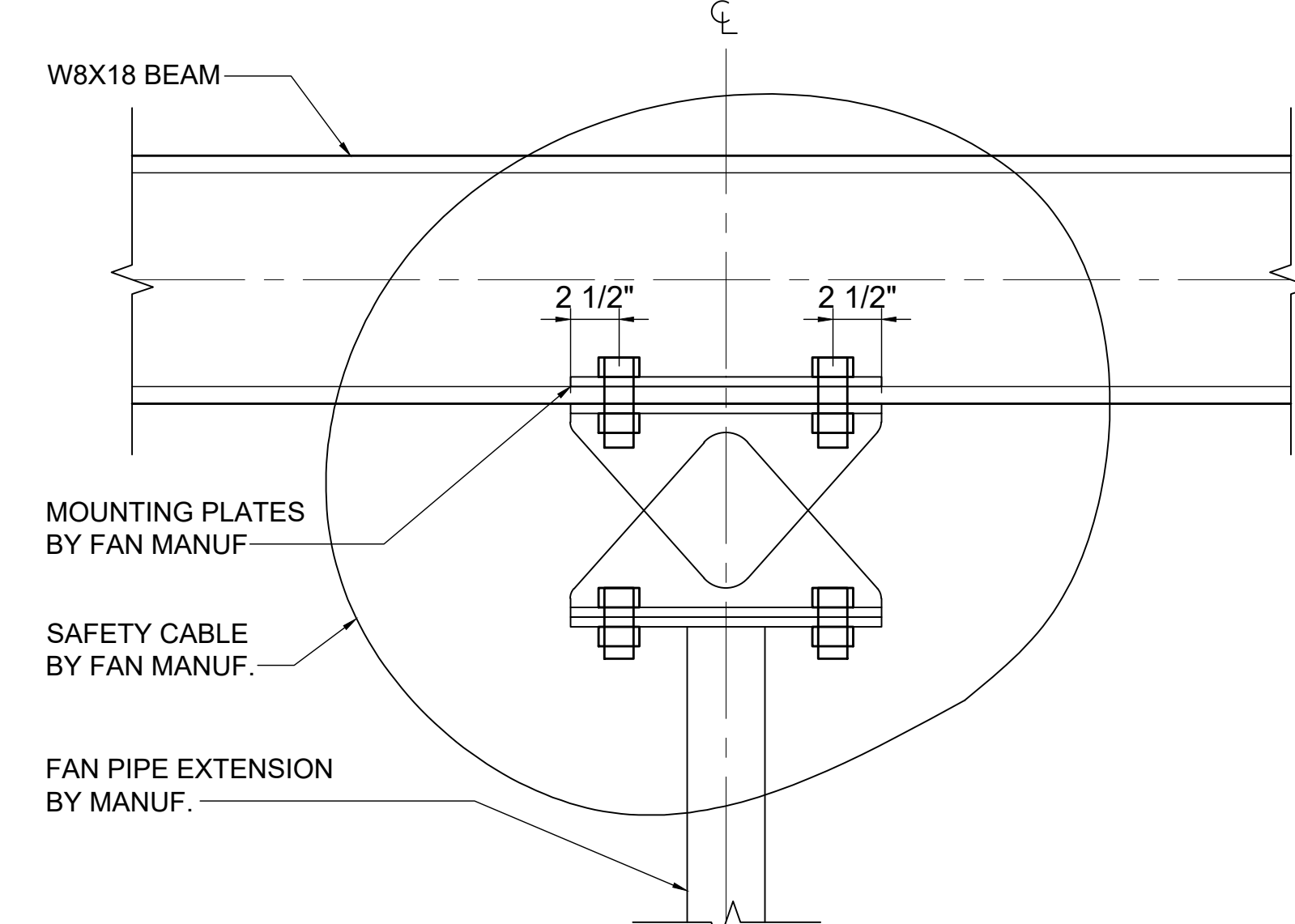
**6** STEEL STAIR DETAIL  
S502 SCALE: 1 1/2" = 1'-0"



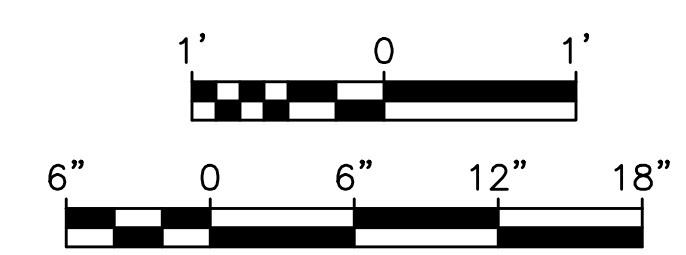
**7** FAN SUPPORT DETAIL  
S502 SCALE: 1 1/2" = 1'-0"



**8** FAN SUPPORT DETAIL  
S502 SCALE: 1 1/2" = 1'-0"



**9** FAN SUPPORT DETAIL  
S502 SCALE: 1 1/2" = 1'-0"



NO.	DATE	REVISIONS

DATE  
PROJECT TITLE :  
**CONVERT CARGO BUILDING TO WORKSHOP**  
AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:  
**CO1325-33**

SHEET TITLE:  
**STEEL DETAILS**

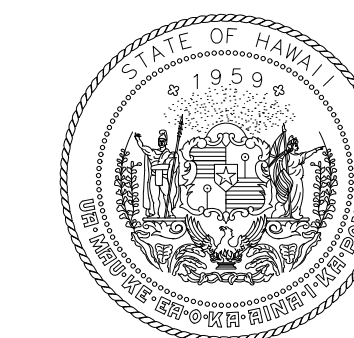
DATE : <b>05/10/23</b>	DWG. NO. <b>S502</b>
SHEET : 33 OF 84 SHEETS	

M:\2022\2022\_01\000\YFH-HNL\_CARGO\_WAREHOUSE\DWG\STRUCT\INDIVIDUAL SHEETS\S501 STEEL DETAILS.DWG

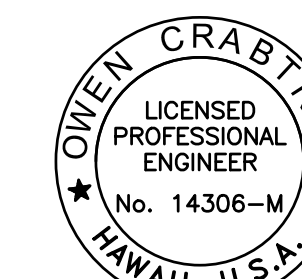
MECHANICAL LEGEND					
SYMBOL	ABBRV.	DESCRIPTION	SYMBOL	ABBRV.	DESCRIPTION
	AFF	ABOVE FINISHED FLOOR		TC	TIMECLOCK
	AHV	AIR HANDLING UNIT		TD	TIME DELAY
	BV	BALL VALVE		TEMP	TEMPERATURE
	BD	BACK DRAFT DAMPER		TS	TEMPERATURE SENSOR
	BFV	BUTTERFLY VALVE		THERM.	THERMOMETER
	CD	CONDENSATE DRAIN		THERM.	THERMOMETER
	CV	CHECK VALVE		VFD	VARIABLE FREQUENCY DRIVE
	CFCU	CHILLED WATER FAN COIL UNIT			CAPPED/STUBOUT PIPE
	CR	CONTACT RELAY		CW	COLD WATER
	CV	CONTROL VALVE		FD	FLOOR DRAIN
	DP	DIFFERENTIAL PRESSURE		POC	POINT OF CONNECTION
		DUCT SMOKE DETECTOR		POR	POINT OF REMOVAL
	EA/OA	EXHAUST AIR/OUTSIDE AIR		RPBFP	REDUCED PRESS. BACKFLOW PREVENT
	EAG	EXHAUST AIR GRILLE		SS	START STOP
	EF	EXHAUST FAN		SW	SWITCH
	EMCS/EMS	ENERGY MNGMT CONTROL SYSTEM		S OR W	SOIL OR WASTE
	EXH.	EXHAUST			STRAINER
	FS	FLOW SWITCH		T & P	TEMP. AND PRESS. RELIEF VALVE
	GV	GATE VALVE		TYP.	TYPICAL
	H-O-A	HAND-OFF-AUTO			PRESSURE GAUGE
		MANUAL AIR VENT			UNION
		MOTOR (ELECTRIC)		VAV	VARIABLE AIR VOLUME
	NO	NORMALLY OPEN		V	VENT
	NC	NORMALLY CLOSED		FSR	FLOW SENSOR
	NPT	NATIONAL PIPE THREAD SIZE			FIRE DAMPER

## MECHANICAL GENERAL NOTES:

- EXAMINE THE PROJECT SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND THE EXTENT OF REMOVAL, RELOCATION, RECONNECTION AND/OR NEW WORK PRIOR TO BIDDING. NOTIFY AND COORDINATE WITH THE ARCHITECT FOR ANY MAJOR DEVIATIONS OR DISCREPANCIES DISCOVERED IN THE PLANS AND SPECIFICATIONS DUE TO UNFORESEEN OR VARYING FIELD CONDITIONS. BID SUBMISSION SHALL BE CONSIDERED AS EVIDENCE THAT THE CONTRACTOR HAS VISITED THE SITE AND HAS RESOLVED ALL DISCREPANCIES AND QUESTIONS AND NO EXTRA PAYMENT WILL BE AUTHORIZED FOR WORK MADE NECESSARY BY THE CONTRACTOR'S FAILURE TO DO SO.
- THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE BUILDING CODE OF THE STATE OF HAWAII, STATE DEPARTMENT OF HEALTH REGULATIONS, 2018 UNIFORM PLUMBING CODE AS ADOPTED BY THE STATE PLUMBING CODE, 2017 NATIONAL ELECTRICAL CODE AS ADOPTED BY THE STATE ELECTRICAL CODE, ASME BOILER AND PRESSURE VESSEL CODE, ASME PRESSURE PIPING CODE, 2018 IECC INTERNATIONAL ENERGY CONSERVATION CODE AS ADOPTED BY THE HAWAII STATE MODEL ENERGY CODE, 2018 NFPA 1 AS ADOPTED BY THE STATE FIRE CODE, 2018 INTERNATIONAL BUILDING CODE (IBC) AS ADOPTED BY THE STATE BUILDING CODE, AND ALL OTHER AGENCIES HAVING JURISDICTION.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER THE COMPLETE INSTALLATION OF SYSTEMS TO FUNCTION AS DESCRIBED AND SPECIFIED. THE OMISSION OF REFERENCE TO ANY NECESSARY ITEM OF LABOR OR MATERIAL SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH LABOR AND MATERIAL.
- ALL EQUIPMENT SHALL BE CAPABLE OF FITTING INTO THE SPACES ALLOCATED WHILE MEETING THE MANUFACTURER'S RECOMMENDED ACCESS REQUIREMENTS. REVIEW ALL SPACES WHERE EQUIPMENT IS TO BE INSTALLED PRIOR TO ORDERING OF EQUIPMENT AND NOTIFY THE ENGINEER OF ANY INADEQUATE CLEARANCES OR CONDITIONS THAT WILL PREVENT THE PROPER INSTALLATION, MAINTENANCE, AND OPERATION OF THE EQUIPMENT.
- PROVIDE SHOP DRAWINGS FOR THE LAYOUT OF EQUIPMENT, PIPING, AND DUCTWORK SHOWING COORDINATION OF ALL WORK WITH ALL OTHER TRADES, INCLUDING PLUMBING, MED GAS, FIRE SPRINKLER, FIRE ALARM, CONTROLS, ELECTRICAL, AND COMMUNICATION SYSTEMS. COORDINATION DRAWINGS SHALL OVERLAY HVAC, PLUMBING, POL, FIRE SPRINKLER, ELECTRICAL, AND FIRE ALARM SYSTEMS, AND ALL CONFLICTS BETWEEN TRADES SHALL BE NOTED AND RESOLVED.
- VERIFY AND COORDINATE ALL ROOF, WALL, AND FLOOR PENETRATIONS WITH THE STRUCTURAL AND ARCHITECTURAL DRAWINGS PRIOR TO THE START OF CONSTRUCTION.
- OBTAIN APPROVAL FROM THE ARCHITECT BEFORE MAKING ANY PENETRATIONS THROUGH STRUCTURAL MEMBERS, WALLS, AND SLABS.
- VERIFY THE EXACT LOCATION, SIZE, AND INVERT OF ALL EXISTING SEWER, STORM DRAIN, AND WATER LINES AT THE NEW POINT OF CONNECTION PRIOR TO THE START OF CONSTRUCTION.
- DRAWINGS DO NOT ATTEMPT TO SHOW EXACT DETAILS OF PIPING AND DUCTWORK. PROVIDE OFFSETS AS NECESSARY TO AVOID LOCAL OBSTRUCTIONS OR INTERFERENCE WITH OTHER TRADES. REVIEW ALL PIPING AND DUCT RUNS PRIOR TO FABRICATION AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY INTERFERENCE AND/OR LACK OF ADEQUATE CLEARANCES.
- SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF WORK, MARK SUCH CHANGES ON THE AS-BUILT DRAWINGS. IF THESE CHANGES REQUIRE ALTERNATE METHODS TO THOSE APPROVED BY THE CONTRACT DOCUMENTS, SUBMIT SHOP DRAWINGS SHOWING THE PROPOSED ALTERNATE METHODS TO THE ARCHITECT FOR REVIEW. DO NOT PROCEED UNTIL REVIEWED.
- PATCH AND PAINT ALL EXPOSED MATERIAL, INCLUDING DUCTWORK, TO MATCH ADJACENT SURFACES OR AS INDICATED.
- REPAIR ANY DAMAGE TO EXISTING CONSTRUCTION RESULTING FROM THE INSTALLATION OF MECHANICAL ITEMS. THE AREAS REPAIRED SHALL MATCH THE ADJACENT SURFACES IN TEXTURE AND COLOR.
- PROPERLY FIRESTOP ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, OR PARTITIONS WITH A UL APPROVED SYSTEM APPROPRIATE FOR THE PENETRATION TYPE AND FIRE RATING. FIRESTOP ALL PENETRATIONS BETWEEN FLOORS.
- PROVIDE ACCESS PANELS TO ALL CONCEALED VALVES, DAMPERS, AND EQUIPMENT. PANELS SHALL BE MILCOR OR EQUAL. COORDINATE THE LOCATION OF ACCESS PANELS TO INSURE THAT THE EQUIPMENT CAN BE MAINTAINED ADEQUATELY.
- PROVIDE SMOKE, FIRE, OR SMOKE/FIRE DAMPERS IN DUCTS AND AIR DEVICES AT ALL FIRE RATED WALLS, CEILINGS, AND PARTITIONS AS REQUIRED BY THE IBC.
- PROVIDE ISOLATION VALVES ON PIPING BRANCH LINES AND VOLUME DAMPERS ON DUCTWORK BRANCH LINES WHETHER SHOWN ON THE DRAWINGS OR NOT.
- PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS IN HOT WATER, COLD WATER, HOT WATER RETURN, AND CHILLED WATER PIPES.
- SEISMICALLY BRACE ALL EQUIPMENT, PIPING, AND DUCTWORK IN ACCORDANCE WITH THE CURRENT CITY AND COUNTY OF HONOLULU BUILDING CODE FOR SEISMIC ZONE 2A.
- INSTALL CONDENSATE DRAINS AT A MINIMUM SLOPE OF 1/4" PER FOOT. INDIVIDUAL UNIT CONDENSATE DRAINS SHALL BE 1" DIAMETER LINES AND 1 1/4" FOR COMBINED LINES UNLESS OTHERWISE INDICATED.
- INSULATE ALL SEWER PIPING RECEIVING AIR CONDITIONING CONDENSATE DRAINS, ICE DRAINS, OR ANY OTHER COLD LIQUID WHICH MAY CREATE CONDENSATION, FROM POINT OF CONNECTION TO TOP OF CONCRETE SLAB-ON-GRADE. INSULATE FLOOR DRAIN AND FLOOR SINK BODIES EXPOSED TO AIR BELOW THE FLOOR.
- ROUTE ALL CONTROL AND MOTOR STARTER WIRING IN CONDUIT.
- MOUNT ALL ROOM THERMOSTATS AT 4'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.
- ALL DUCT DIMENSIONS SHOWN ARE NET DIMENSIONS.
- NEW OPENINGS ARE NOT ALLOWED IN CONCRETE BEAMS, GIRDERS OR COLUMNS.
- CONTRACTOR SHALL LOCATE ALL EXISTING REINFORCING IN PRESTRESSED CONCRETE SLABS BY NON-DESTRUCTIVE METHODS PRIOR TO DRILLING AND/OR CUTTING NEW HOLES AND OPENINGS IN SLABS. EXISTING PRESTRESSED TENDONS SHALL NOT BE DAMAGED.
- NEW PIPES AND CONDUITS SHALL NOT BE EMBEDDED IN EXISTING CONCRETE AND CMU WALLS OR SLABS.
- NEW OPENINGS SHALL NOT BE OVERCUT.
- SIGNAL FROM ALL NEW DUCT SMOKE DETECTORS SHALL BE CONNECTED TO EXISTING FIRE ALARM SYSTEM.
- PROVIDE PREMIUM EFFICIENCY MOTORS FOR ALL MECHANICAL EQUIPMENT.
- CONTRACTOR TO INCLUDE TWO YEARS EXTENDED MAINTENANCE PER MANUFACTURER'S RECOMMENDATIONS FOR ALL NEW A/C EQUIPMENT.
- PROVIDE ACCESS PANEL FOR ALL DAMPERS AND VAV BOXES WHERE SHOWN ON THE DRAWINGS OR NOT.



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STATE OF HAWAII



EXP. 4/30/2024

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WJ	WJ	OC	

NO.	DATE	REVISIONS

DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING  
TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

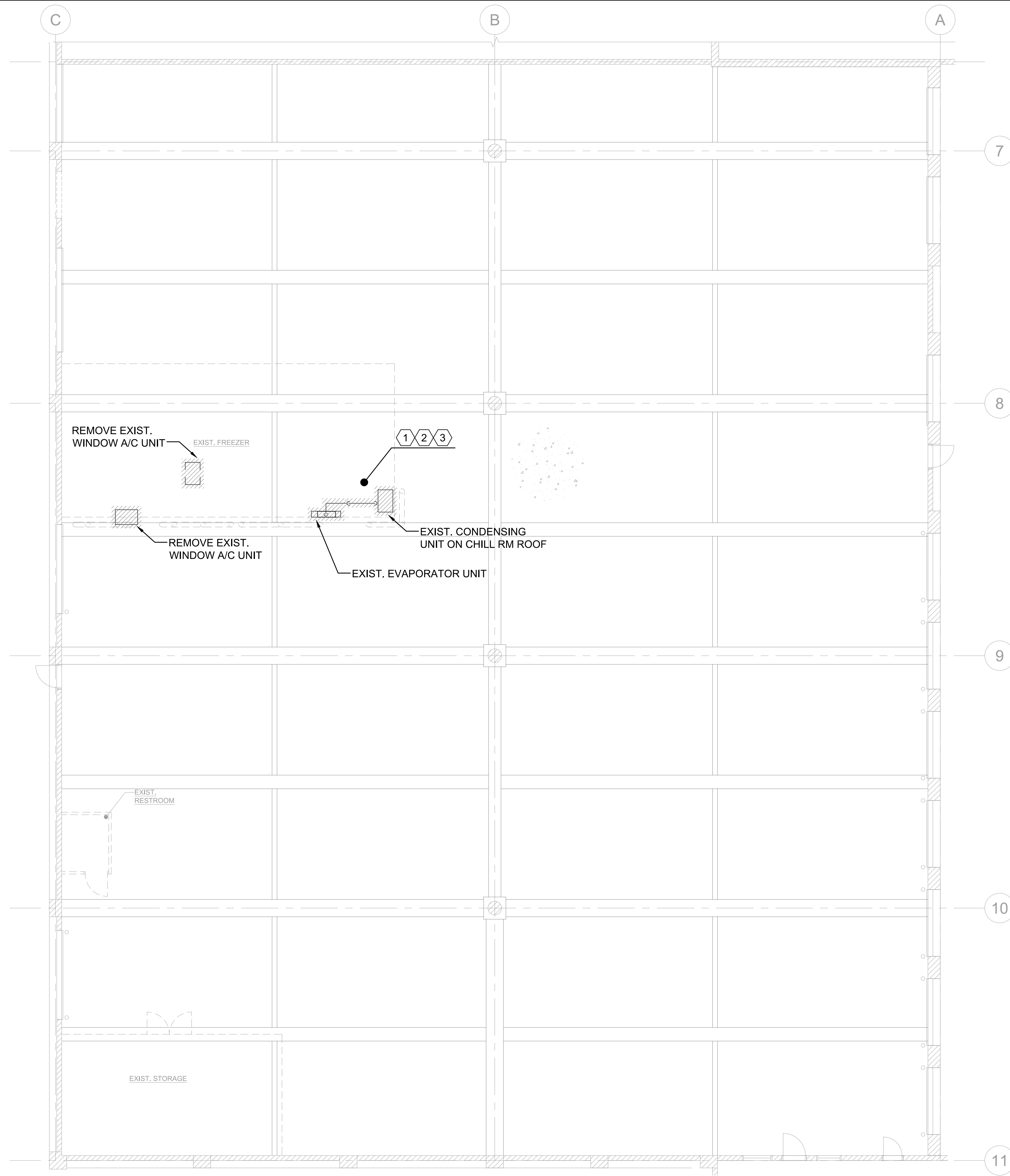
PROJECT NO.:

**CO1325-33**

SHEET TITLE:

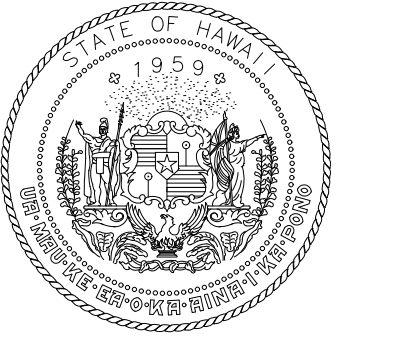
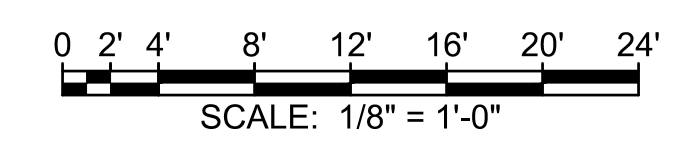
**MECHANICAL  
NOTES AND LEGEND**

DATE :	DWG. NO.
05/10/23	M001
SHEET :	
34 OF 84 SHEETS	

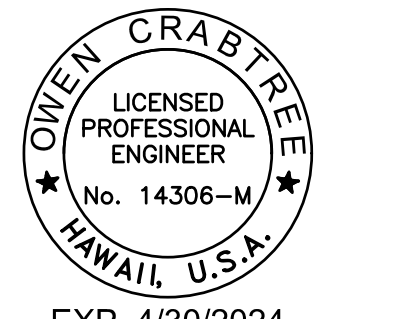


- 8 DEMO KEY NOTES:
- ① REMOVE EXISTING WINDOW AIR CONDITIONS AND ASSOCIATED PIPING.
  - ② REMOVE WALK-IN FREEZER CONDENSING UNIT AND ASSOCIATED PIPING.
  - ③ REMOVE EXISTING REFRIGERATION SYSTEM AND EVAPORATOR COILS.

1 MECHANICAL REMOVAL PLAN  
M101 SCALE: 1/8" = 1'-0"



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DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



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WJ	WJ	OC	

NO.	DATE	REVISIONS
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DATE

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AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**MECHANICAL  
REMOVAL PLAN**

DATE :  
**05/10/23**

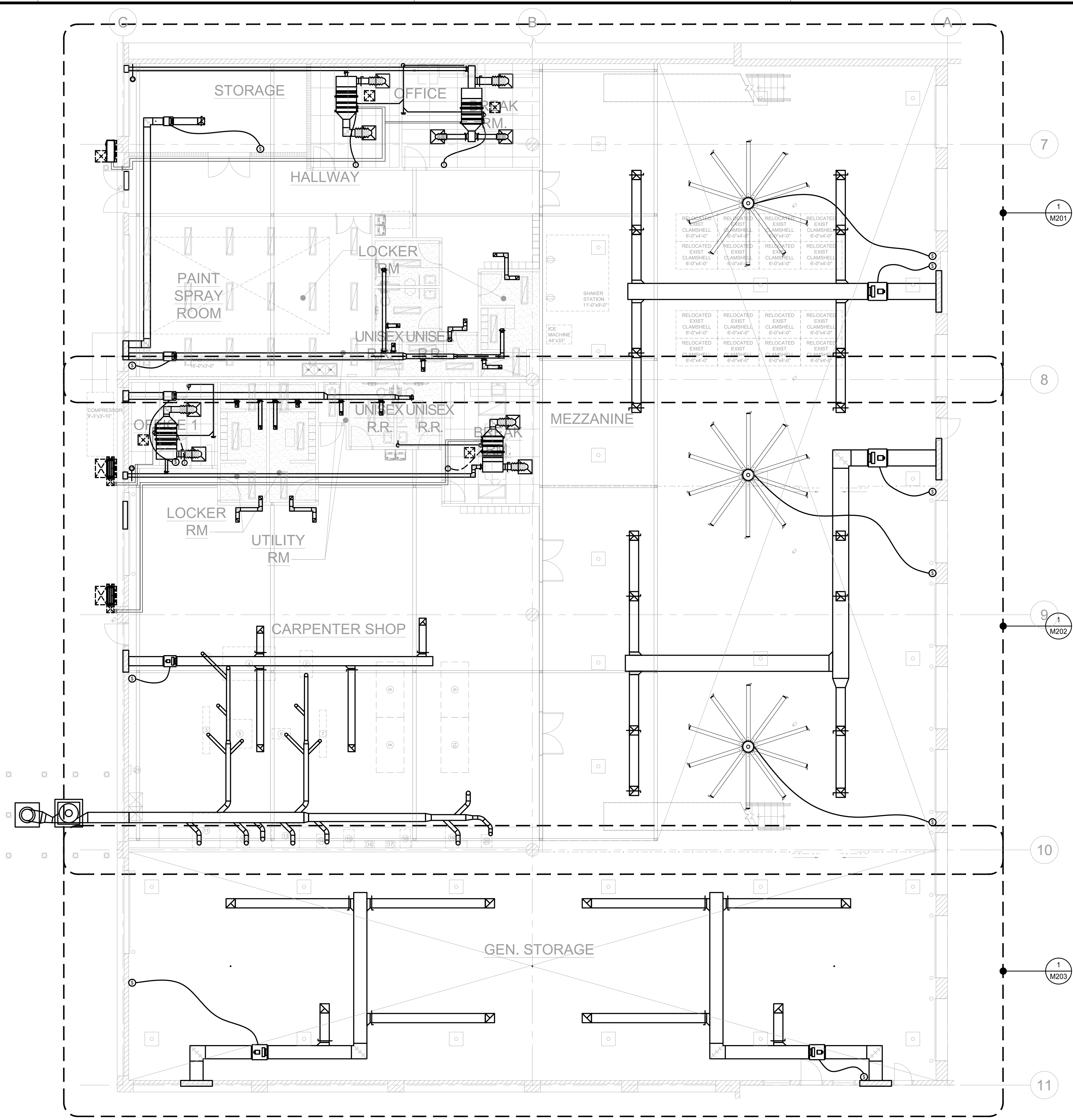
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35 OF 84 SHEETS

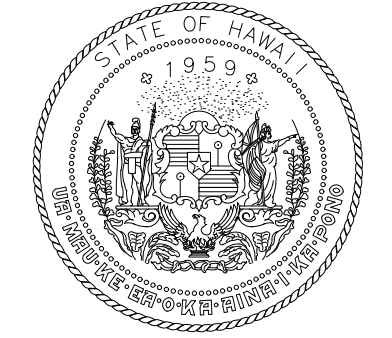
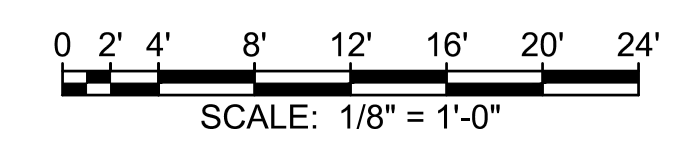
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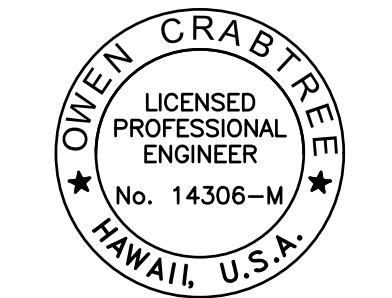
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1 OVERALL MECHANICAL PLAN  
 M102 SCALE: 1/8" = 1'-0"



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AT  
 DANIEL K. INOUE INTERNATIONAL AIRPORT  
 HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

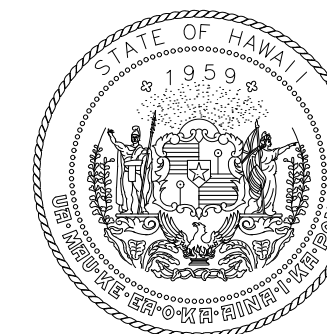
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DATE :  
**05/10/23**

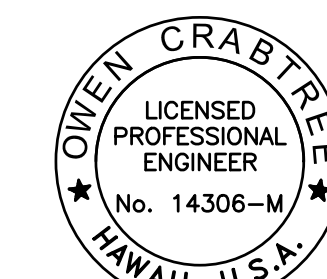
SHEET :  
 36 OF 84 SHEETS

DWG. NO.  
**M102**

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STATE OF HAWAII



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HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

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DATE :

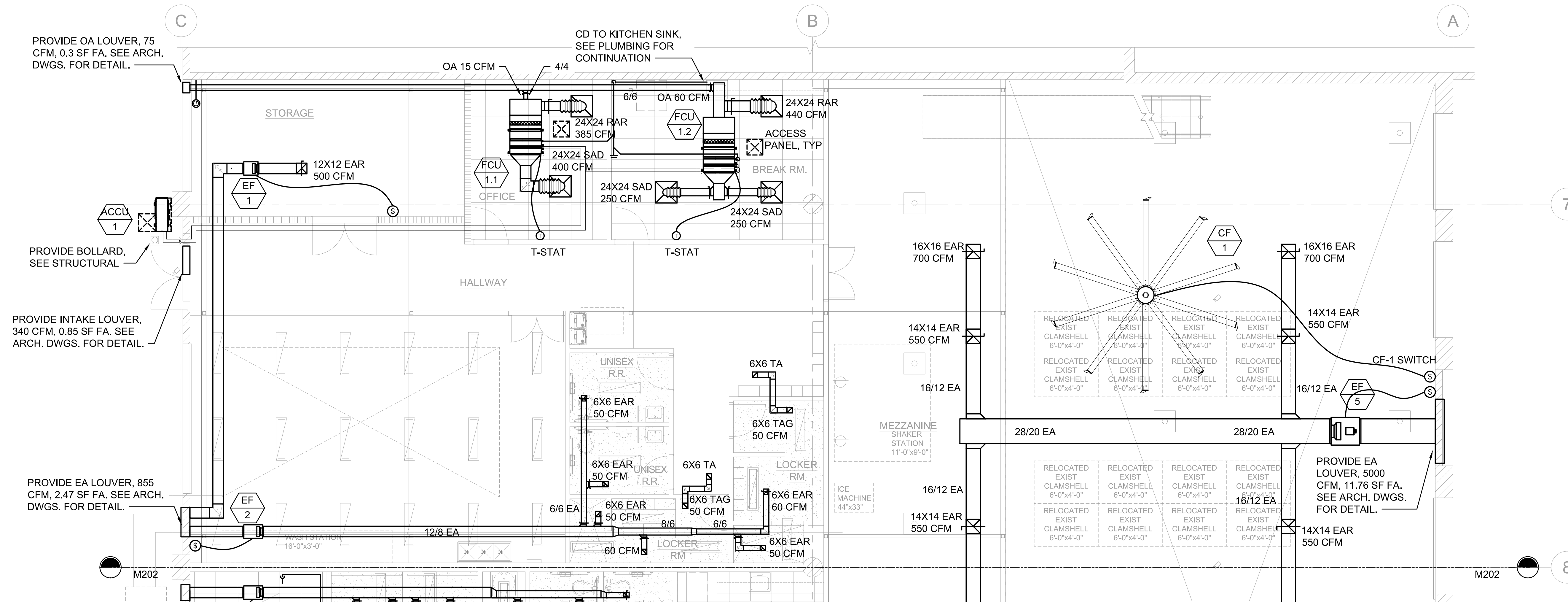
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SHEET :

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DWG. NO.

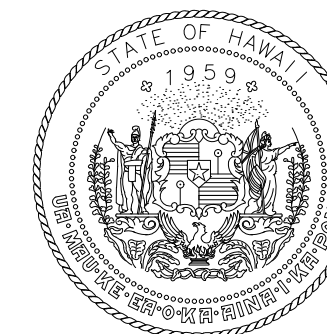
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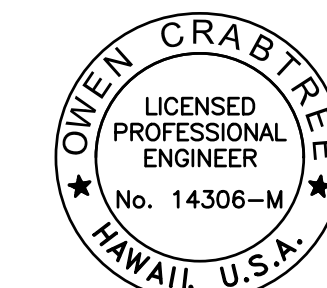
**1** ENLARGED MECHANICAL PLAN - 01  
M201 SCALE: 3/16" = 1'-0"







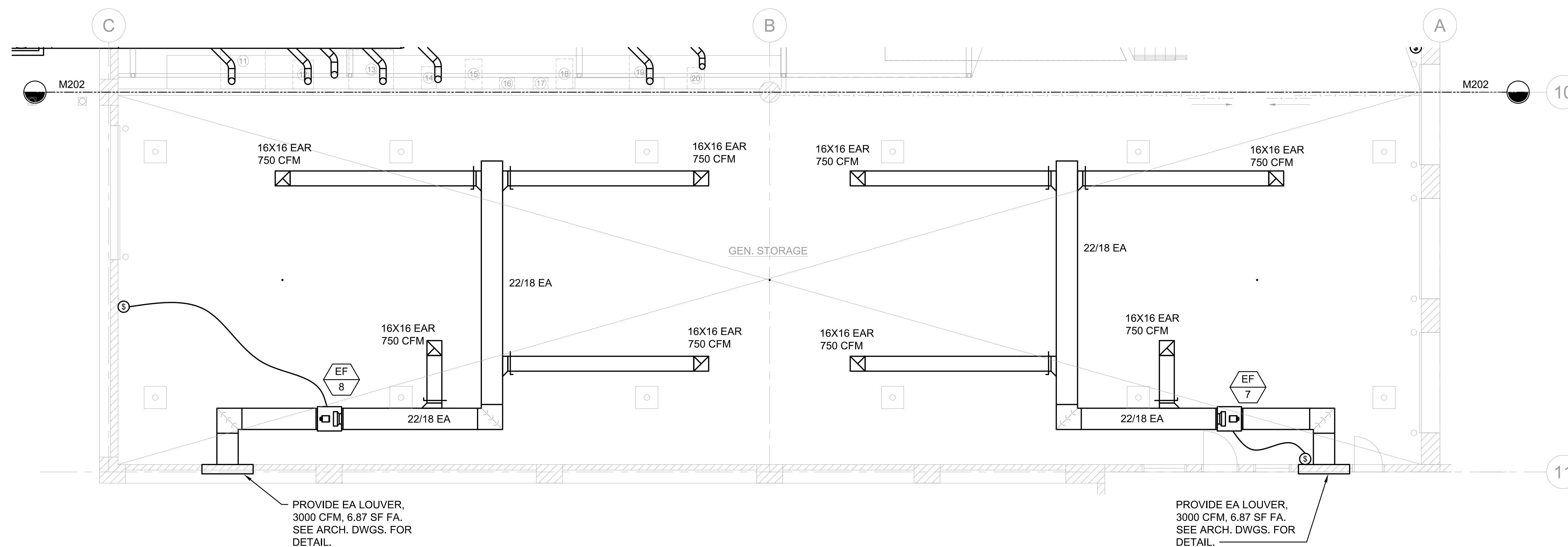
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PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**ENLARGED MECHANICAL PLAN - 03**

DATE :

**05/10/23**

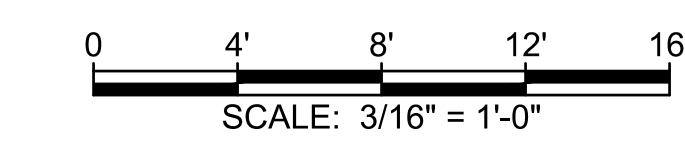
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**39 OF 84 SHEETS**

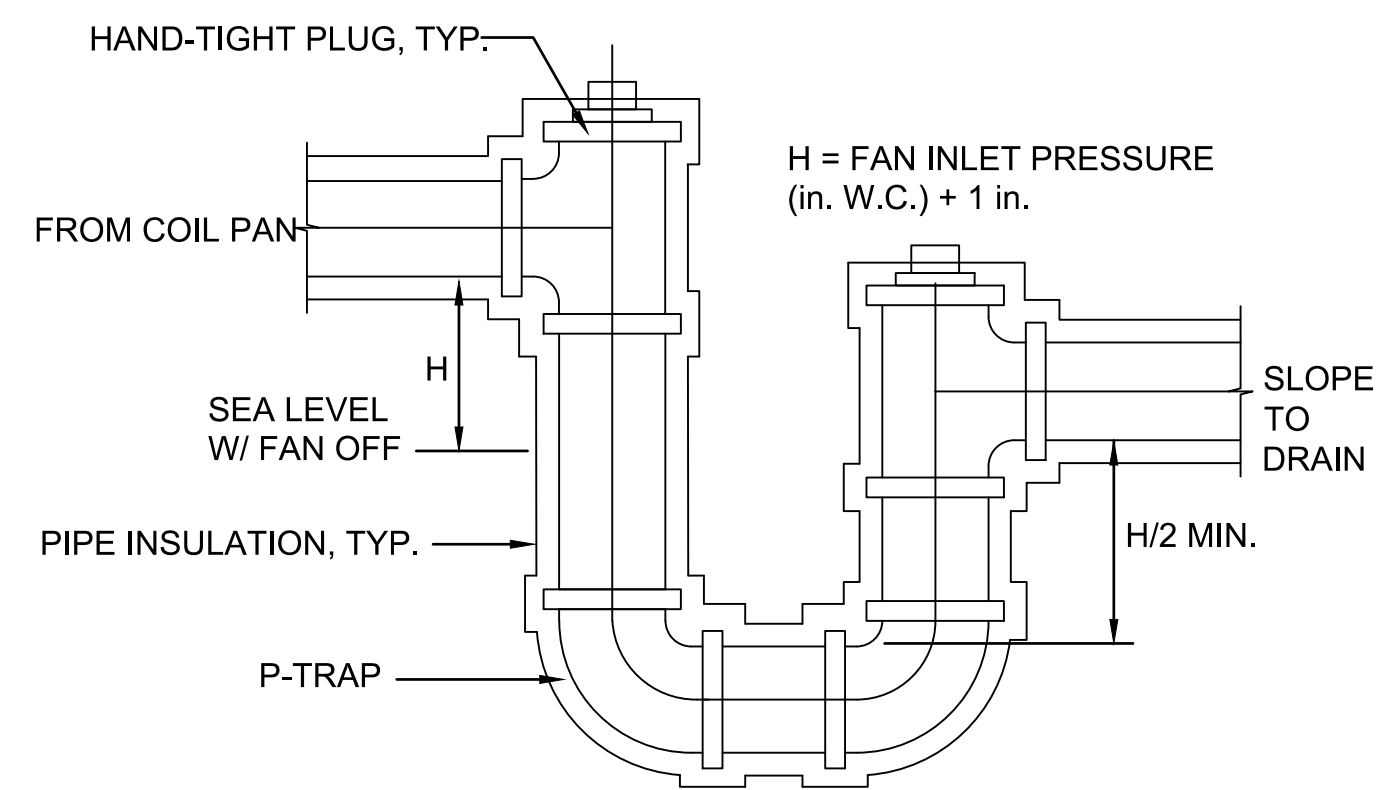
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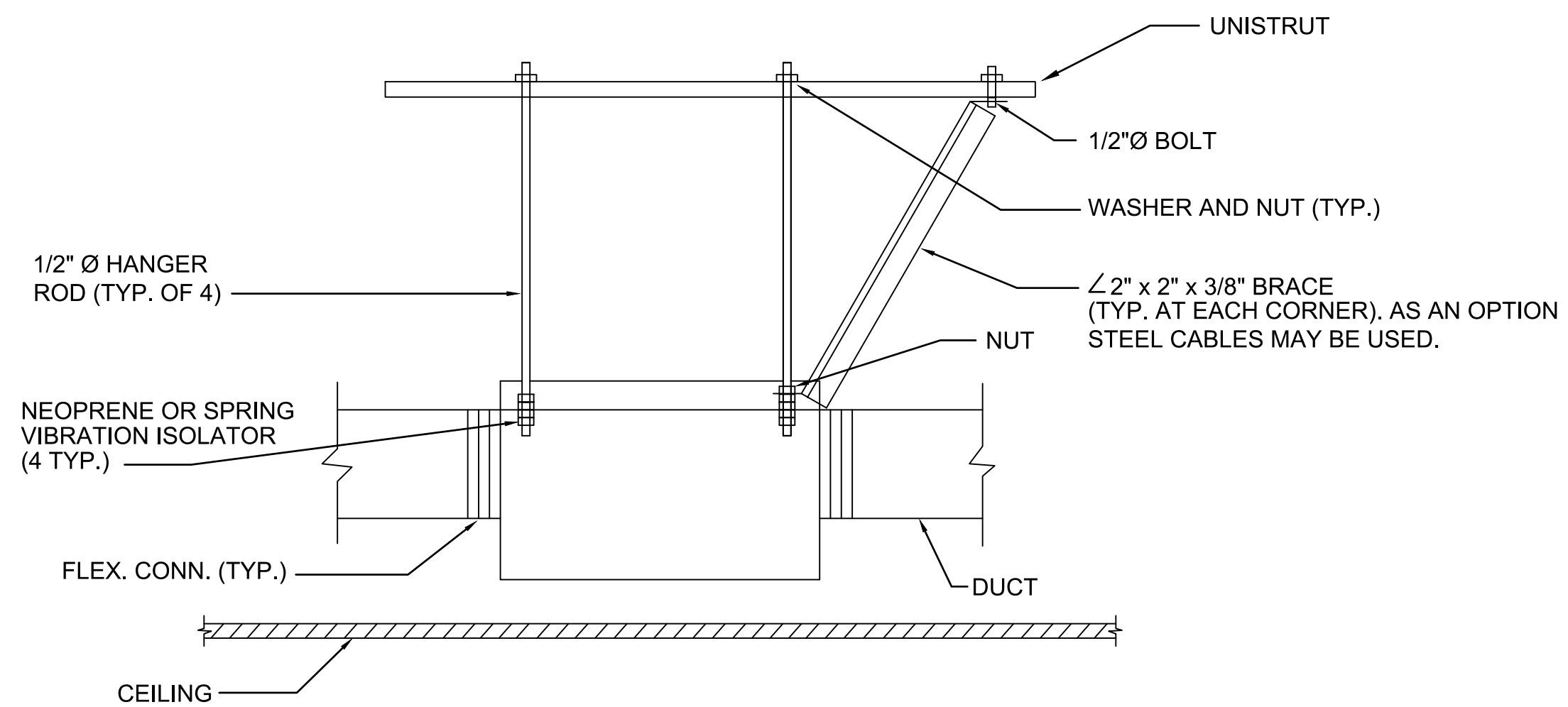
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ENLARGED MECHANICAL PLAN - 03  
SCALE: 3/16" = 1'-0"



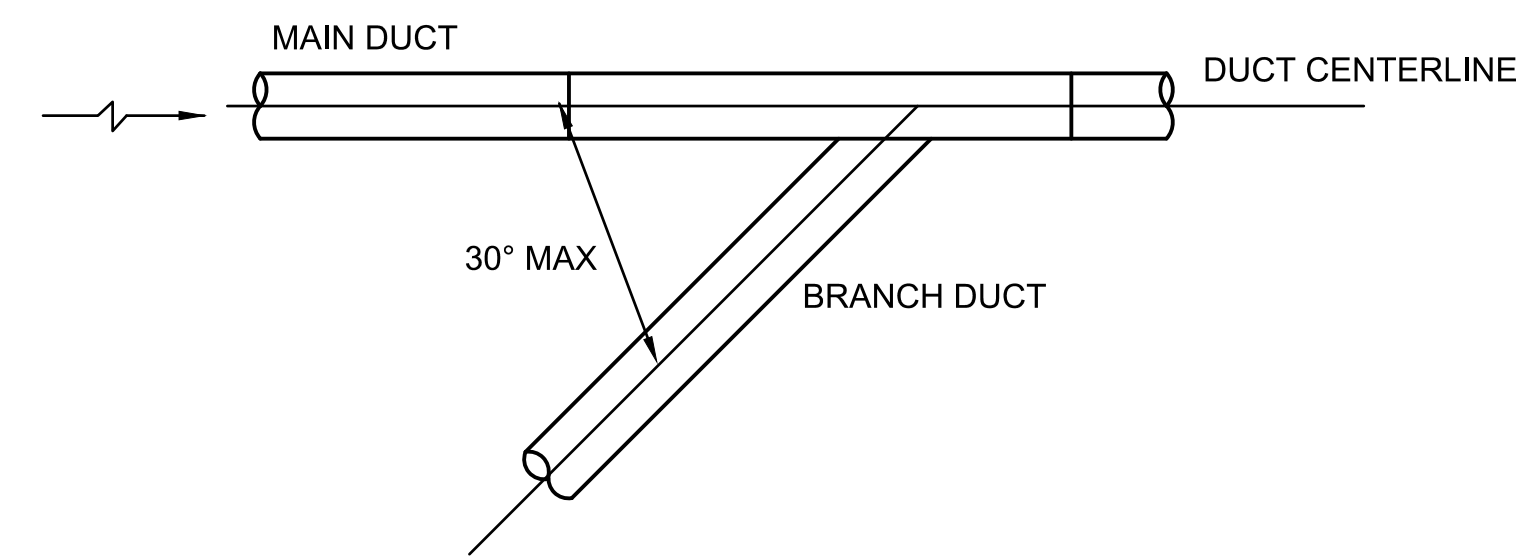
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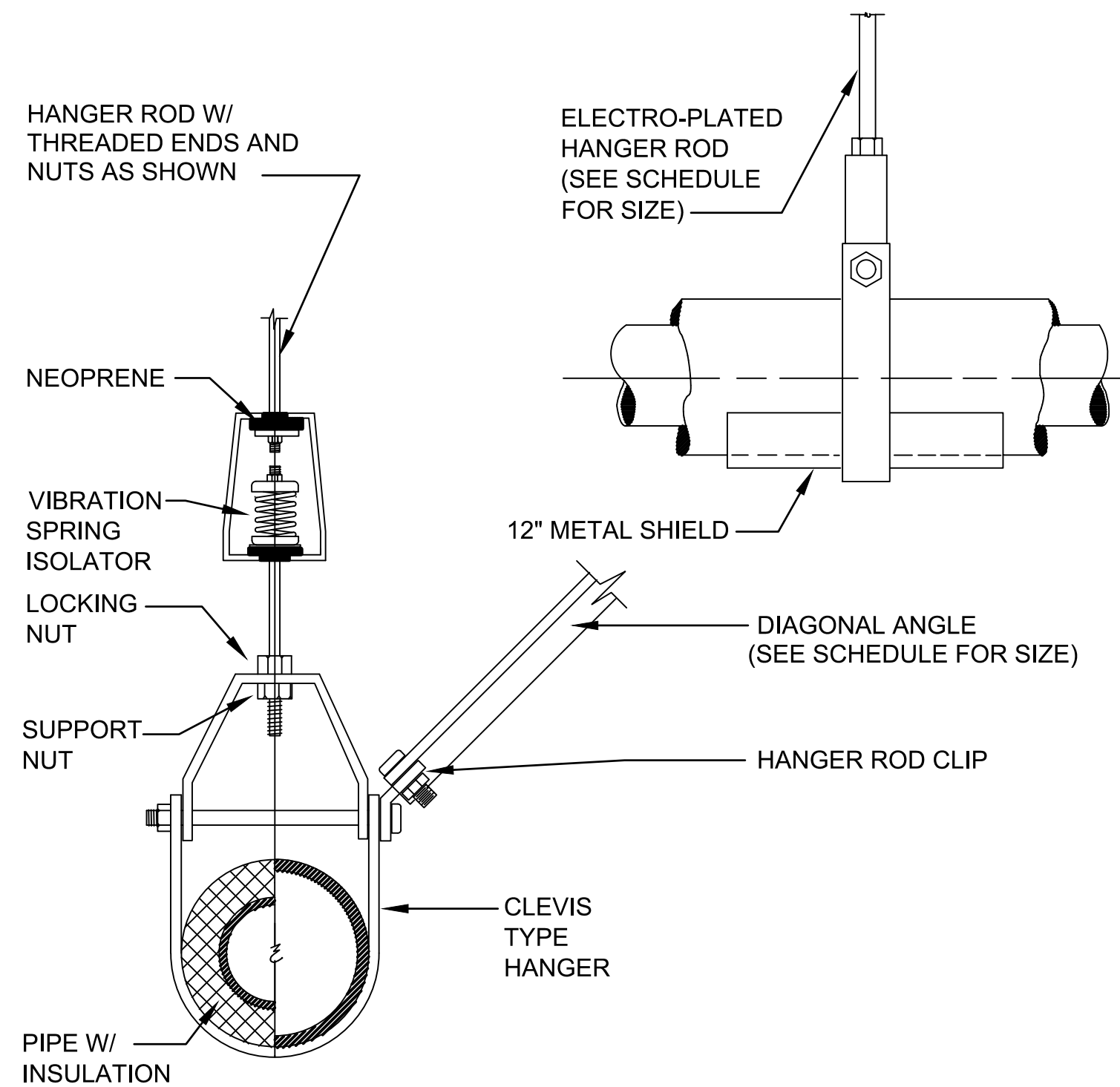
**1** TYPICAL CONDENSATE TRAP DETAIL  
SCALE: NOT TO SCALE



**2** INLINE EXHAUST FAN SUPPORT  
NOT TO SCALE

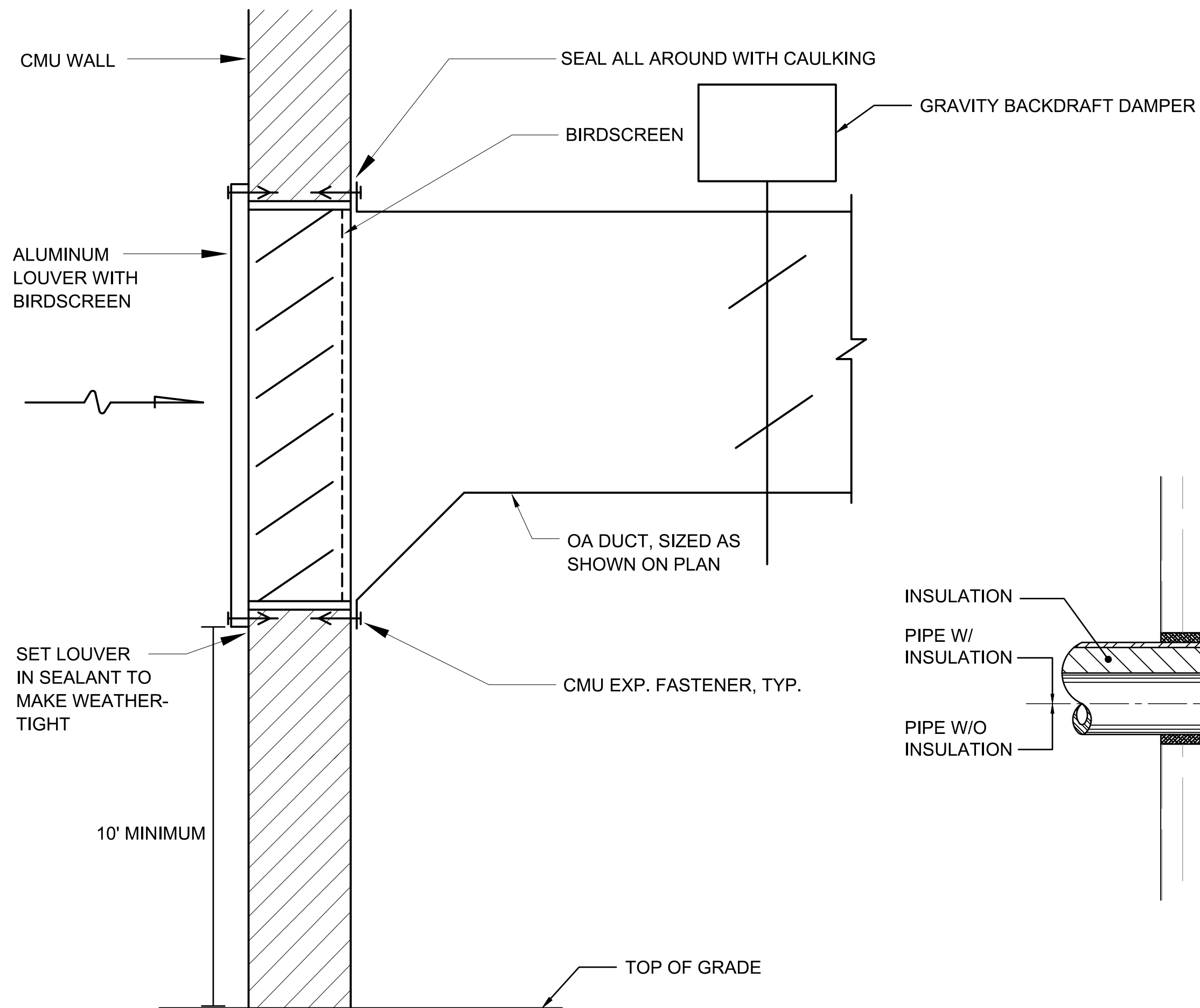


**3** TYPICAL DUST COLLECTION DUCT ENTRY  
SCALE: NOT TO SCALE

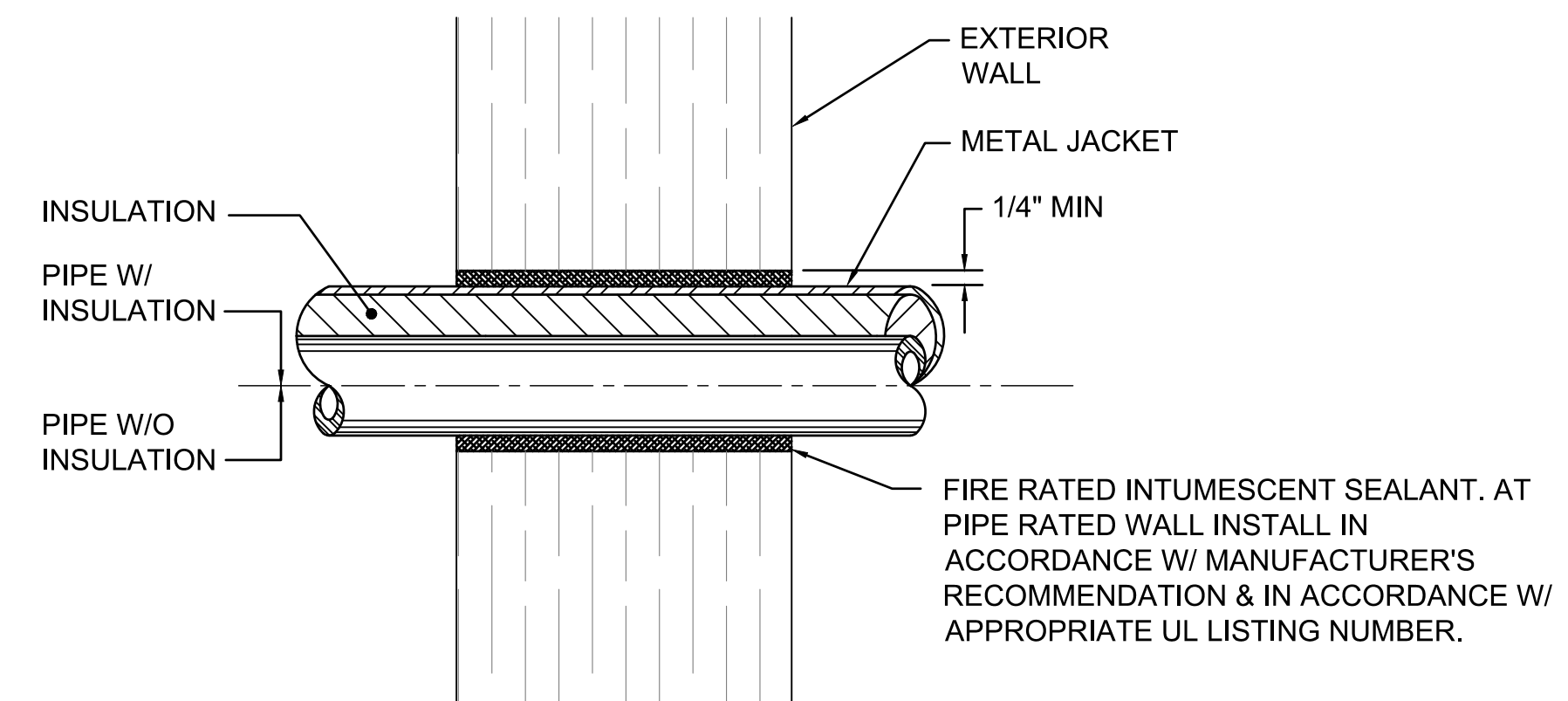


HANGER ROD SCHEDULE		
PIPE SIZE	ROD SIZE	ANGLE SIZE
1/2" - 2"	3/8"	2x2x16 GA.
2 1/2" - 3"	1/2"	2x2x16 GA.
4" - 5"	5/8"	2x2x16 GA.
6"	3/4"	2x2x16 GA.

**4** TYPICAL PIPE HANGER DETAIL  
SCALE: NOT TO SCALE



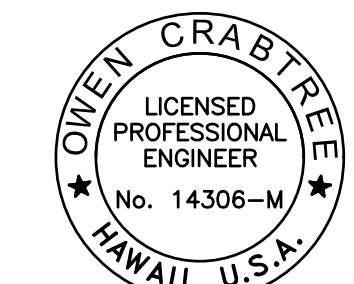
**5** LOUVER DETAIL  
SCALE: NOT TO SCALE



**6** PIPE PENETRATION THRU WALL DETAIL  
NOT TO SCALE



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STATE OF HAWAII



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PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**MECHANICAL  
DETAILS**

DATE :

05/10/23

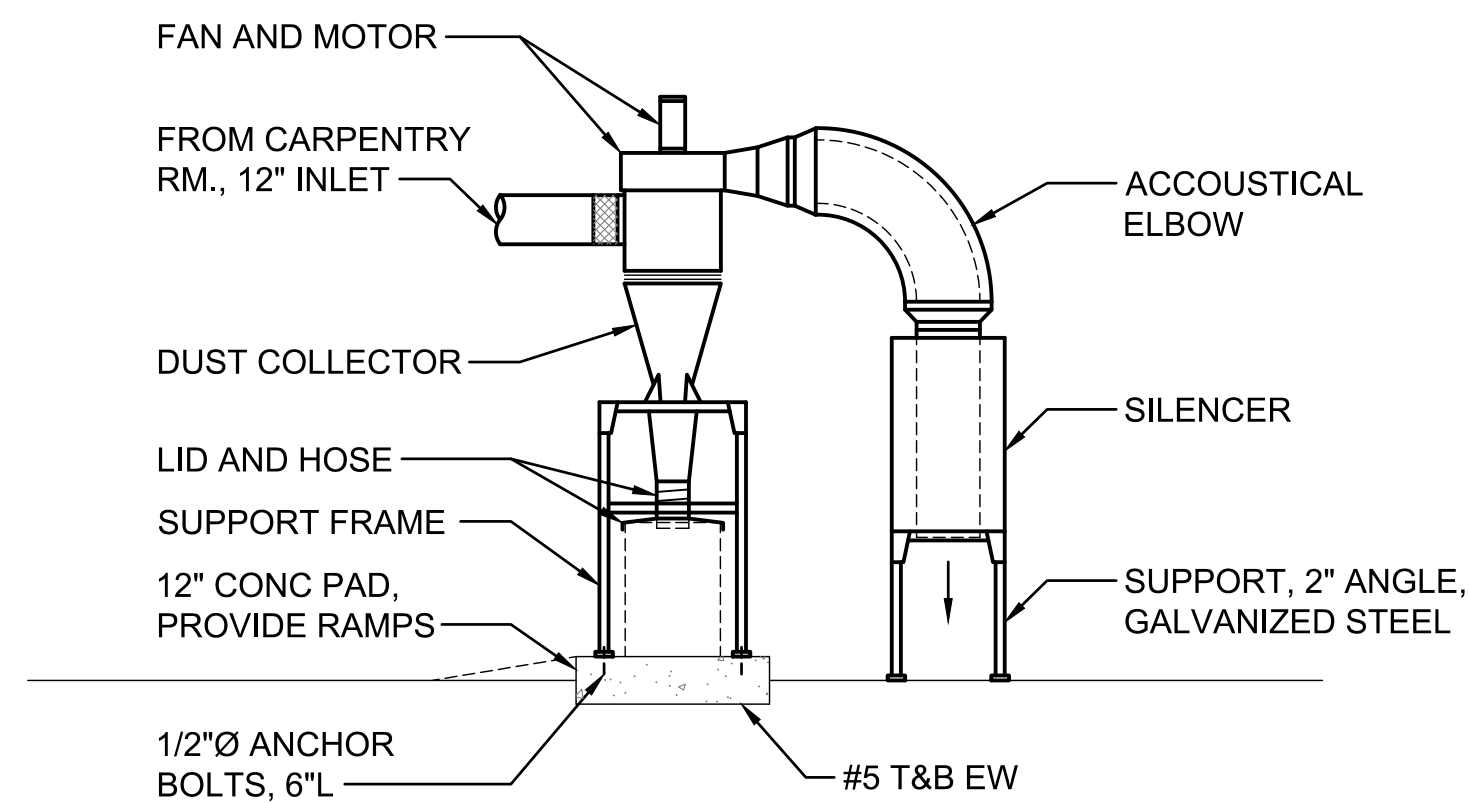
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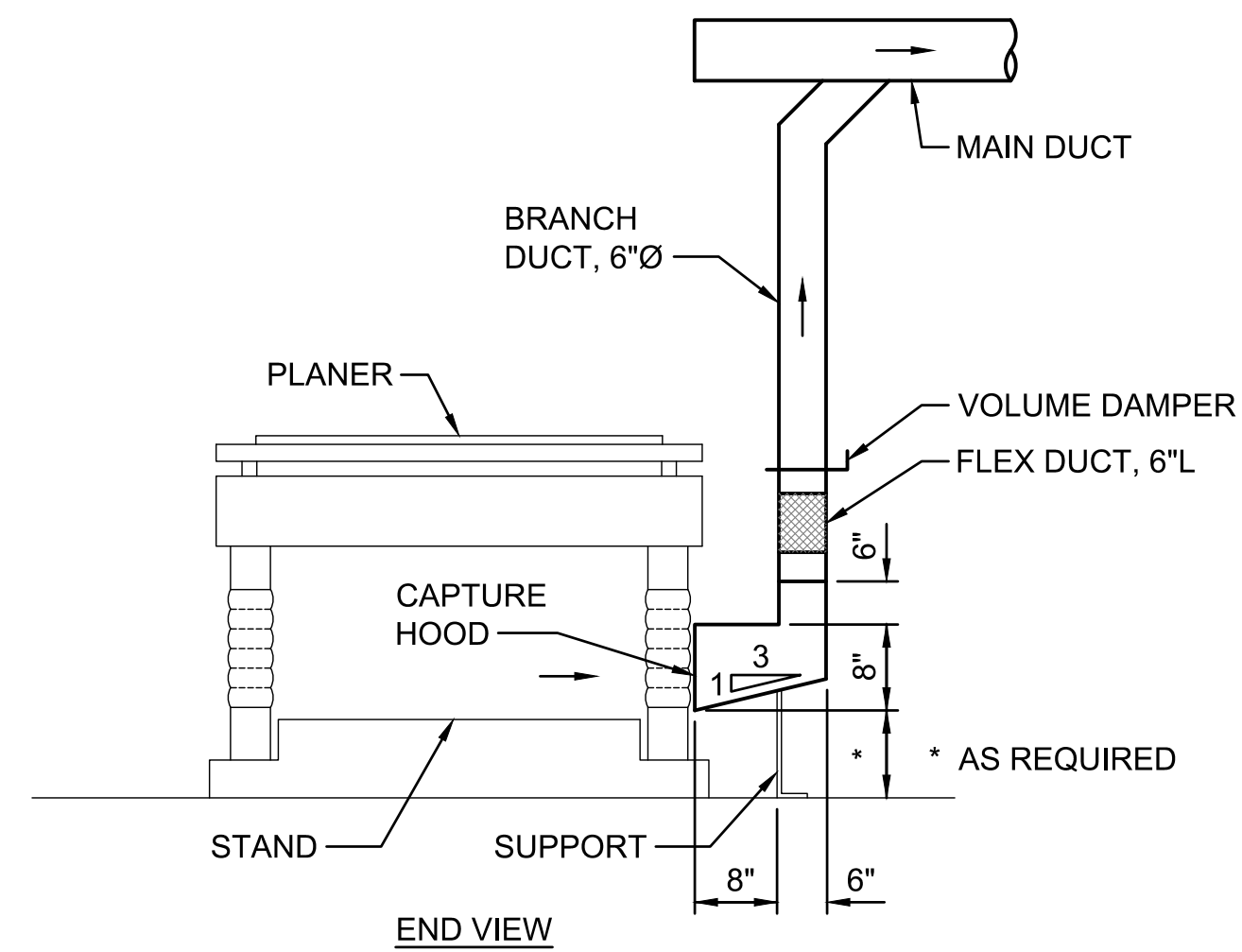
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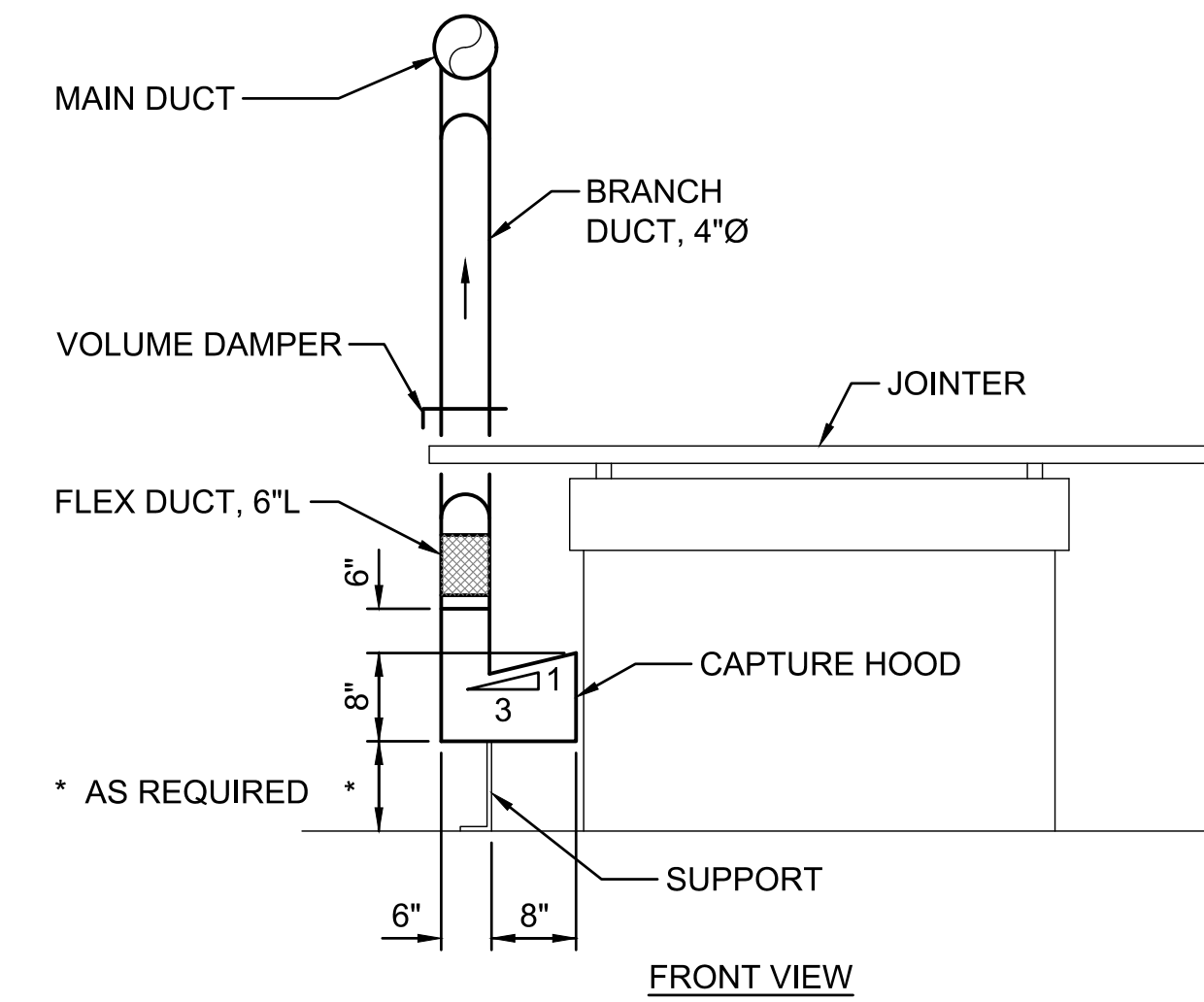
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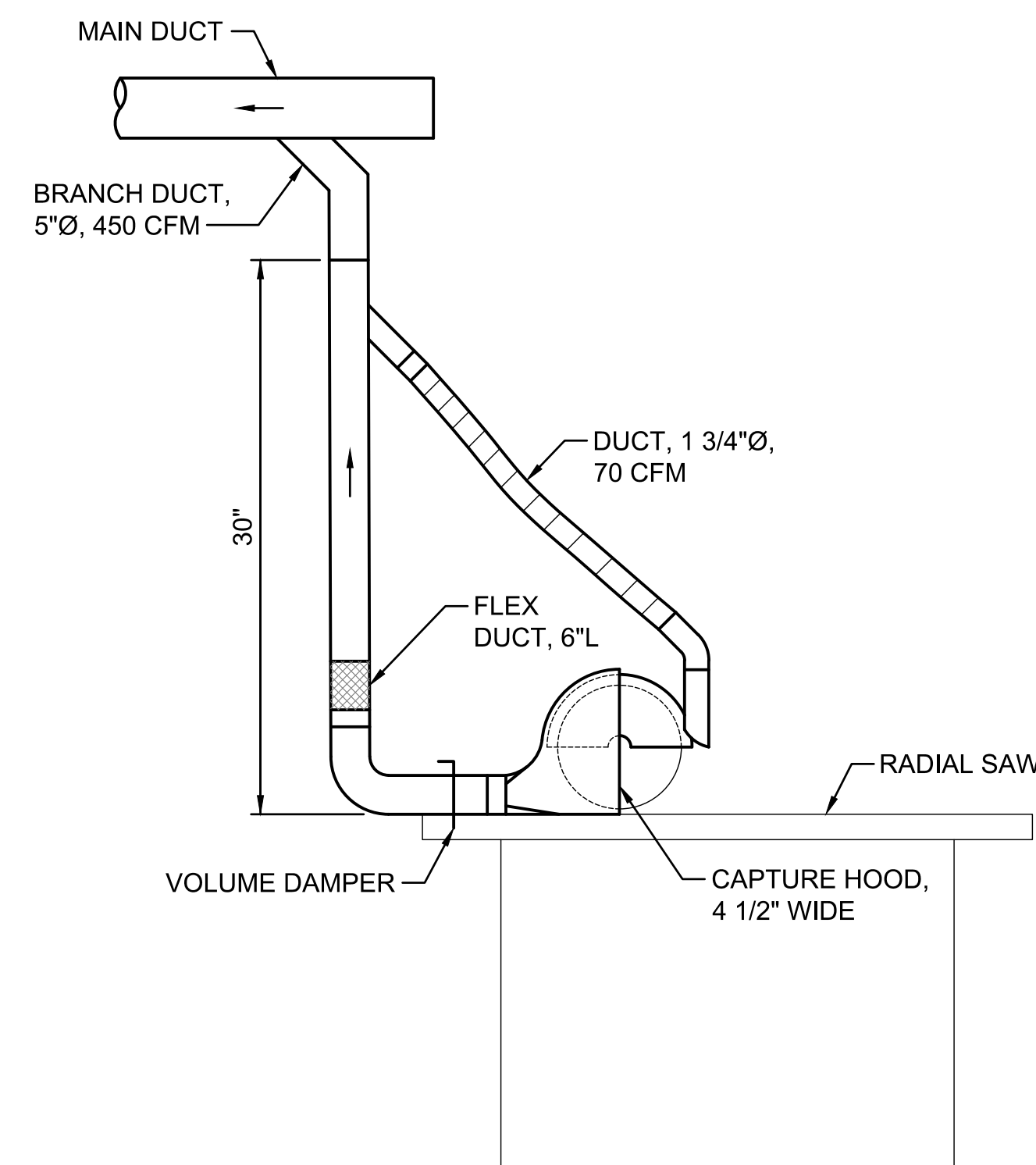
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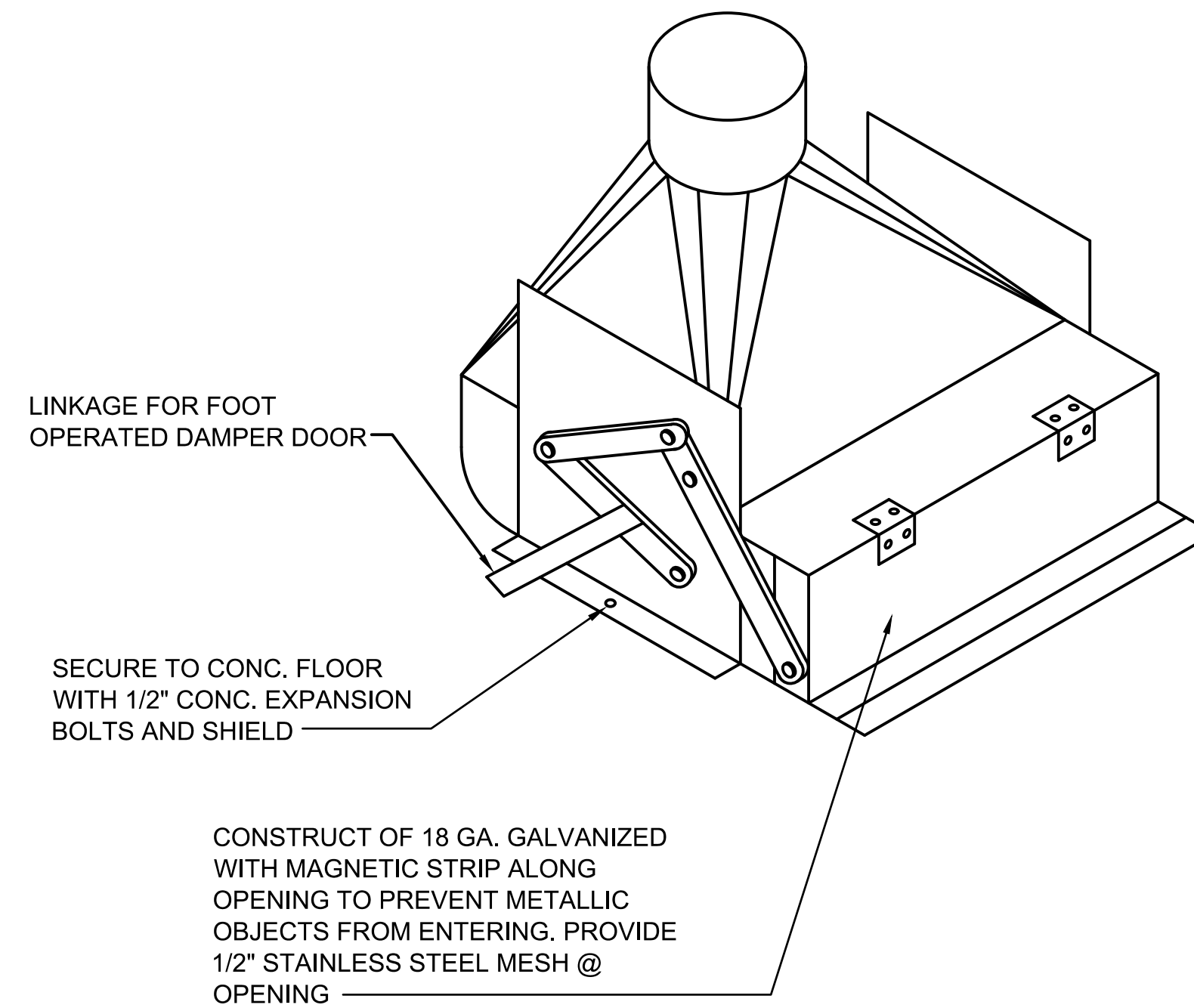
**2 PLANER VENTILATION**  
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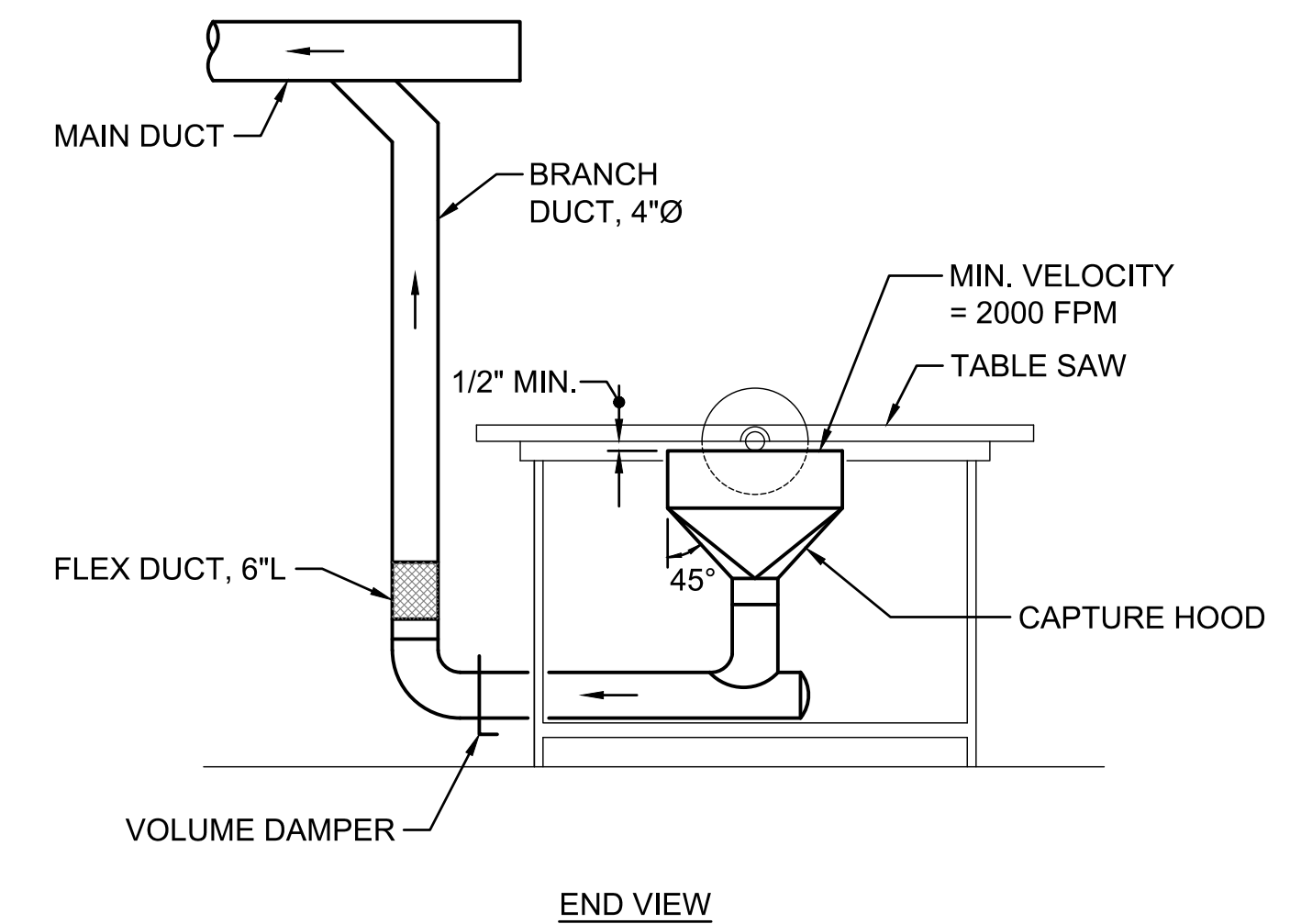
**3 JOINTER VENTILATION**  
SCALE: NOT TO SCALE



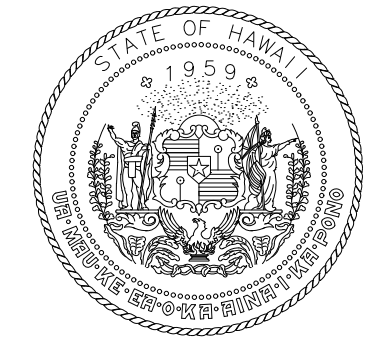
**4 RADIAL SAW VENTILATION**  
SCALE: NOT TO SCALE



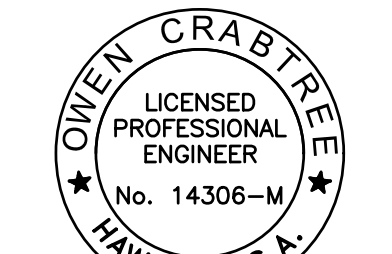
**5 FLOOR SWEEP**  
SCALE: NOT TO SCALE



**6 TABLE SAW VENTILATION**  
SCALE: NOT TO SCALE



Airports Division  
DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



EXP. 4/30/2024

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DSGN.	DRWN.	CHKD.	APPD.
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NO.	DATE	REVISIONS
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DATE

**PROJECT TITLE :**

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

**PROJECT NO.:**

**CO1325-33**

**SHEET TITLE:**

**MECHANICAL DETAILS**

DATE :

05/10/23

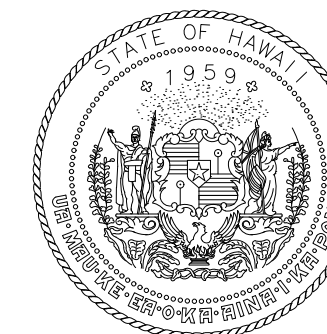
SHEET :

41 OF 84 SHEETS

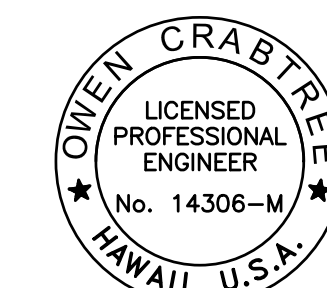
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**M502**

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DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



EXP. 4/30/2024

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DSGN.	DRWN.	CHKD.	APPD.
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WJ	WJ	OC	
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NO.	DATE	REVISIONS
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DATE

**PROJECT TITLE :**  
**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

**PROJECT NO.:**

**CO1325-33**

**SHEET TITLE:**

**MECHANICAL SCHEDULES**

DATE :

05/10/23

SHEET :

42 OF 84 SHEETS

DWG. NO.

**M601**

### AIR COOLED CONDENSING UNIT (ACCU) SCHEDULE

ACCU NO.	LOCATION	AREA SERVED	COOLING NOMINAL TONS	REFRIG. TYPE	COND. FANS (NO.)	COMP. (NO.)	ELECTRICAL			SEER/EER	SIZE HxWxD (IN)	UNIT WT. (LB)	SOUND LEVEL (DBA)	BASIS OF DESIGN	REMARKS
							MCA	MOCP	V/PH/Hz						
ACCU-1	PAINT SHOP BREAK ROOM	BREAK ROOM / OFFICE	3.00	-	2	1	29	40	208/1/60	21.2/12.2	53 x 42 x 13	271	49	MXZ-SM36NAM	1, 2
ACCU-2	CARPENTER SHOP	BREAK ROOM	1.0	-	1	1	11	28	208/1/60	21/13.3	25 x 32 x 12	92	44	PUY-A12NKA7	1, 2
ACCU-3	CARPENTER SHOP	OFFICE	1.0	-	1	1	11	28	208/1/60	21/13.3	25 x 32 x 12	92	44	PUY-A12NKA7	1, 2

**MECHANICAL NOTES:**

- REFRIGERANT PIPE QUANTITIES AND SIZE TO BE PER MANUFACTURER'S PIPING SCHEMATIC.
- COAT UNIT CASING AND COILS WITH COATING RATED FOR COASTAL ENVIRONMENT

### FAN COIL UNIT (FCU) SCHEDULE

FCU NO.	AREA SERVED	TYPE	COOLING CAPACITY			SUPPLY FAN		ELECTRICAL			SOUND LEVEL (DBA)	SIZE WxDxH (IN)	UNIT WEIGHT (LBS)	BASIS OF DESIGN	REMARKS
			TOTAL (BTUH)	EAT DB°F	LAT DB°F	SA (CFM)	OA (CFM)	MCA	FLA	V/PH/Hz					
FCU-1.1	PAINT SHOP OFFICE	HORIZONTAL DUCTED	15,000	75.0	55.0	400	15	2.44	1.95	208/1/60	29-34-37	36 x 29 x 10	60	MTSUBISHI PEAD-A15AA8	PROVIDE WITH ROOM MOUNT WIRELESS WALL CONTROLLER
FCU-1.2	PAINT SHOP BREAK ROOM	HORIZONTAL DUCTED	18,000	75.0	55.0	500	60	1.69	1.35	208/1/60	30-33-37	36 x 29 x 10	60	MTSUBISHI PEAD-A18AA7	PROVIDE WITH ROOM MOUNT WIRELESS WALL CONTROLLER
FCU-2.1	CARPENTER SHOP OFFICE	HORIZONTAL DUCTED	12,000	75.0	55.0	400	20	5	2.23	POWERED FROM ACCU-2	27-31-34	36 x 29 x 10	60	MTSUBISHI PEAD-A12AA8	PROVIDE WITH ROOM MOUNT WIRELESS WALL CONTROLLER
FCU-3.1	CARPENTER SHOP BREAK ROOM	HORIZONTAL DUCTED	12,000	75.0	55.0	400	60	5	2.23	POWERED FROM ACCU-3	27-31-34	36 x 29 x 10	60	MTSUBISHI PEAD-A12AA8	PROVIDE WITH ROOM MOUNT WIRELESS WALL CONTROLLER

### EXHAUST FAN (EF) SCHEDULE

UNIT TAG	LOCATION	AREA SERVED	TYPE	AIRFLOW (CFM)	ESP (IN. WG)	FAN RPM	ELECTRICAL					SIZE LxWxH (IN)	OPERATING WEIGHT (LBS)	INLET NOISE (dBA)	INLET NOISE (SONES)	BASIS OF DESIGN	REMARKS
							MOTOR (BHP)	MOTOR SIZE (HP)	FLA (AMPS)	MCA	V/PH/Hz						
EF-1	WAREHOUSE	PAINT SHOP STORAGE	INLINE DUCTED - DIRECT DRIVE	500	0.56	1,406	0.14	0.25	3.50	4.00	115/1/60	16 x 15 x 15	47	58	10.1	GREENHECK SQ-99-VG	1, 2
EF-2	WAREHOUSE	PAINT SHOP LOCKER RM / UNISEX R.R	INLINE DUCTED - DIRECT DRIVE	355	0.78	1,594	0.17	0.25	2.85	4.00	115/1/60	21 x 15 x 15	47	60	11.5	GREENHECK SQ-98-VG	1, 2, 3 CONNECT TO TIMECLOCK
EF-3	WAREHOUSE	CARPENTER LOCKER RM / UTILITY RM / UNISEX R.R	INLINE DUCTED - DIRECT DRIVE	365	0.78	1,606	0.17	0.25	3.50	4.00	115/1/60	21 x 15 x 15	47	60	11.5	GREENHECK SQ-98-VG	1, 2, 3 CONNECT TO TIMECLOCK
EF-4	WAREHOUSE	CARPENTER SHOP	CENTRIFUGAL INLINE DUCTED - BELT DRIVE	1,600	1.30	1,527	0.68	1.00	11.50	14.00	115/1/60	21 x 19 x 32	104	65	13.5	GREENHECK SQ-140-VG	1, 2, 3 CONNECT TO TIMECLOCK
EF-5	WAREHOUSE	MEZZANINE	CENTRIFUGAL INLINE DUCTED - BELT DRIVE	5,000	1.67	1,556	2.14	3.00	9.70	12.00	208/3/60	32 x 31 x 47	218	69	18.8	GREENHECK SQ-18-VG	1, 2, 3, 4 CONNECT TO T-STAT IN SPACE SET TO 85F
EF-6	WAREHOUSE	MEZZANINE	CENTRIFUGAL INLINE DUCTED - BELT DRIVE	5,000	1.67	1,556	2.14	3.00	9.70	12.00	208/3/60	32 x 31 x 47	218	69	18.8	GREENHECK SQ-18-VG	1, 2, 3, 4 CONNECT TO T-STAT IN SPACE SET TO 85F
EF-7	WAREHOUSE	GEN. STORAGE	CENTRIFUGAL INLINE DUCTED - BELT DRIVE	3,000	1.11	1,409	1.06	2.00	12.50	16.00	208/1/60	26 x 26 x 39	144	69	16.3	GREENHECK SQ-160-VG	1, 2, 3, 4 CONNECT TO T-STAT IN SPACE SET TO 85F
EF-8	WAREHOUSE	GEN. STORAGE	CENTRIFUGAL INLINE DUCTED - BELT DRIVE	3,000	1.11	1,409	1.06	2.00	12.50	16.00	208/1/60	26 x 26 x 39	144	69	16.3	GREENHECK SQ-160-VG	1, 2, 3, 4 CONNECT TO T-STAT IN SPACE SET TO 85F

**NOTES**

- PROVIDE WITH INTEGRAL BACKDRAFT DAMPER
- PROVIDE INTEGRAL DISCONNECT SWITCH
- PROVIDE SPEED CONTROLLER
- PROVIDE DUCT SMOKE DETECTOR
- PROVIDE SPARK RESISTANT CONSTRUCTION

### DUST COLLECTOR (DC) SCHEDULE

UNIT TAG	LOCATION	AREA SERVED	TYPE	CAPACITY (CFM)	EXTERNAL STATIC PRESSURE (IN. WG.)	MOTOR (HP)	EFFICIENCY (%)	DRUM STORAGE (GAL)	V/PH/Hz	OPERATING WEIGHT (LBS)	BASIS OF DESIGN	REMARKS
DC-1	OUTSIDE OF WAREHOUSE BUILDING	CARPENTER SHOP	CYCLONE TYPE, TAPERING CONE DESIGN	12,410	-	50	-	165	460/3/60	1,745	UNITED AIR SPECIALIST C SERIES MODEL C-4450	1

**NOTES**

1. PROVIDE WITH SILENCER PACKAGE.

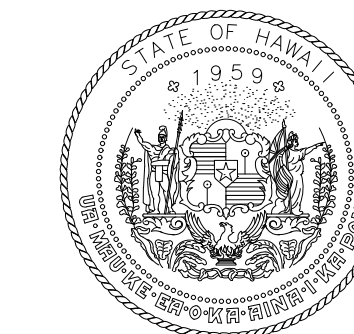
### HVLS CEILING FAN (CF) SCHEDULE

UNIT NO	SERVES	QTY	TYPE	FAN DIAMETER (FT)	FAN SPEED (RPM)	ELECTRICAL				MOUNTING HT	HANGING WEIGHT (LBS)	BASIS OF DESIGN	REMARKS
						VOLTS	PH	HZ	A				
CF-1	STORAGE	1	AIRFOIL BLADE	12	145	208	1	60	10	29 FT	227	POWERFOIL D OR APPROVED EQUAL	FURNISH WITH CEILING FAN WALL-MOUNTED CONTROLLER
CF-2	STORAGE	1	AIRFOIL BLADE	12	145	208	1	60	10	29 FT	227	POWERFOIL D OR APPROVED EQUAL	FURNISH WITH CEILING FAN WALL-MOUNTED CONTROLLER
CF-3	STORAGE	1	AIRFOIL BLADE	12	145	208	1	60	10	29 FT	227	POWERFOIL D OR APPROVED EQUAL	FURNISH WITH CEILING FAN WALL-MOUNTED CONTROLLER

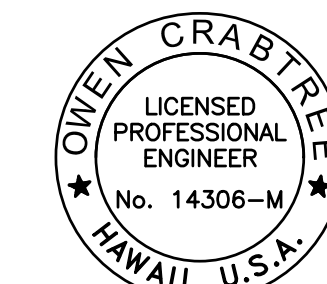
### TYPICAL AIR DIFFUSER AND REGISTER SCHEDULE

<b>A</b>	CEILING DIFFUSER: PER SPECIFICATIONS. DIRECTIONAL FLOW SHALL BE 4-WAY UNLESS SHOWN OTHERWISE.			
	CFM RANGE - SUPPLY	OUTSIDE FRAME DIMENSIONS	ROUND NECK SIZE	SQUARE NECK SIZE
	0-150	24"x24"	6" Ø	6"x6"
	151-250	24"x24"	10" Ø	10"x10"
	251-500	24"x24"	12" Ø	12"x12"
	501-700	24"x24"	14" Ø	16"x16"
	701-900	24"x24"	16" Ø	18"x18"
<b>B</b>	SUPPLY AND RETURN TRANSFER GRILLE: SAME AS SYMBOL <b>C</b>			
<b>C</b>	CEILING EXHAUST REGISTER: PER SPECIFICATIONS.			
	CFM RANGE - RETURN/EXHAUST	FACE SIZE	MINIMUM NECK SIZE	NC RATING
	0 - 200	6"x6"	6"x6"	30
	201 - 300	8"x8"	8"x8"	30
	301 - 400	10"x10"	10"x10"	30
	401 - 700	12"x12"	12"x12"	30
	701 - 1100	16"x16"	14"x14"	30
	1101 - 1800	20"x20"	16"x16"	30
	1801 - 2,250	24"x24"	18"x18"	30

**CEILING DIFFUSER AND REGISTER KEY**



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DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



EXP. 4/30/2024

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WJ	WJ	OC	

NO.	DATE	REVISIONS

DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

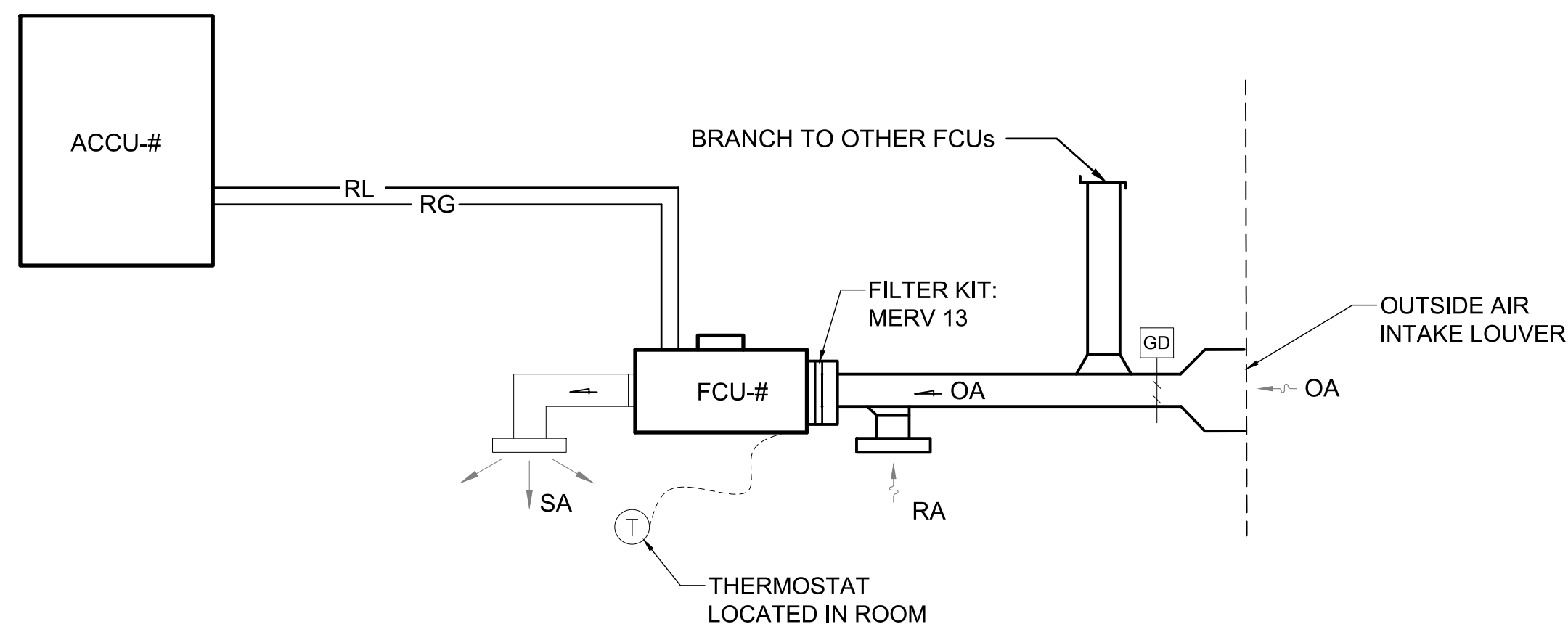
**CO1325-33**

SHEET TITLE:

**MECHANICAL SCHEDULES**

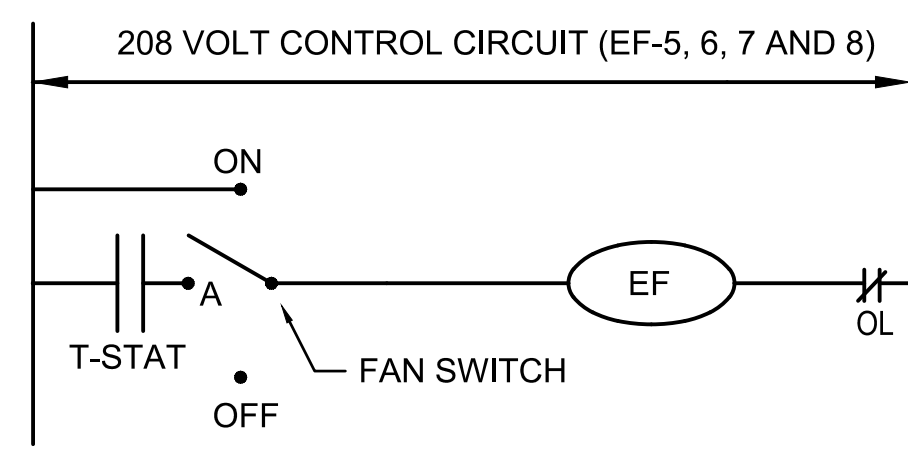
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05/10/23	<b>M602</b>
SHEET :	
43 OF 84 SHEETS	

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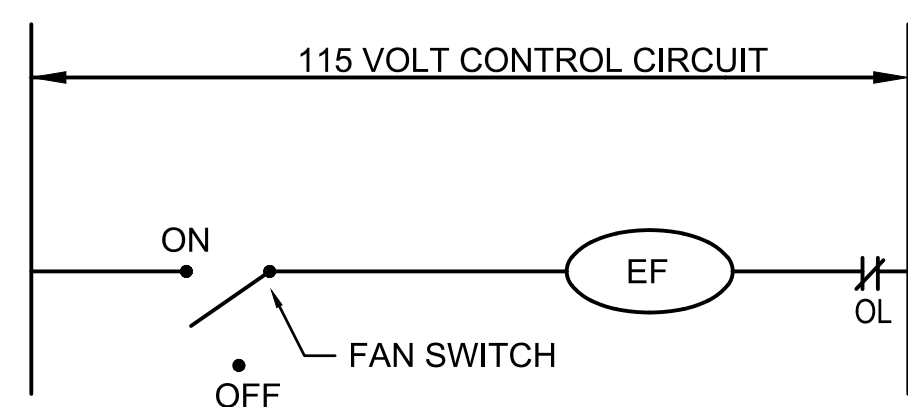


**1 FAN COIL CONTROL DIAGRAM**  
NOT TO SCALE

EXHAUST FAN SERVING CONCESSION (BACK OF HOUSE) SHALL BE CONNECTED TO H-O-A SWITCH. IN AUTO MODE, EF SHALL BE CONTROLLED BY A PROGRAMMABLE THERMOSTAT SET AT 85°F.



**2 EF-5, 6, 7 AND EF-8 CONTROL DIAGRAM - TEMPERATURE CONTROLLED**  
NOT TO SCALE



**3 EF-1, 2, 3 AND EF-4 CONTROL DIAGRAM - SWITCH CONTROLLED**  
NOT TO SCALE

**FCU AND ACCU SEQUENCE:**

THE DX MULTISPLIT SYSTEM CONTROLS SHALL BE STAND ALONE. THE DX MULTISPLIT SYSTEM SHALL TURN ON AND OFF VIA A SCHEDULED TIMER SET BY THE USER. TIMER SHALL BE CAPABLE OF CHANGING ROOM TEMPERATURE DEPENDENT ON UNOCCUPIED/OCCUPIED SCHEDULE. INITIAL SCHEDULE SHALL BE PROGRAMMED FOR OCCUPIED MODE DURING 0630 - 1700.

**ACCU-1 CONNECTED SYSTEM**

1. PAINT SHOP OFFICE AND BREAK ROOM WILL BE SERVED BY TWO FCU'S WITH OUTSIDE AIR . EACH FAN COIL UNIT SHALL BE CONTROLLED VIA ITS OWN THERMOSTAT MOUNTED ON THE WALL WHERE INDICATED ON THE DRAWINGS.
2. THE SYSTEM SHALL MAINTAIN THE ROOM TEMPERATURE AT 76 DEGREES F DURING OCCUPIED HOURS AND 83 DEGREES F DURING UNOCCUPIED HOURS. TEMPERATURE WILL BE SAMPLED AT T-STAT.

**ACCU-2 CONNECTED SYSTEM**

1. CARPENTER SHOP OFFICE WILL BE SERVED BY A FCU. THE FAN COIL UNIT SHALL BE CONTROLLED VIA ITS OWN THERMOSTAT MOUNTED ON THE WALL WHERE INDICATED ON THE DRAWINGS.
2. THE SYSTEM SHALL MAINTAIN THE ROOM TEMPERATURE AT 76 DEGREES F DURING OCCUPIED HOURS AND 83 DEGREES F DURING UNOCCUPIED HOURS. TEMPERATURE WILL BE SAMPLED AT T-STAT.

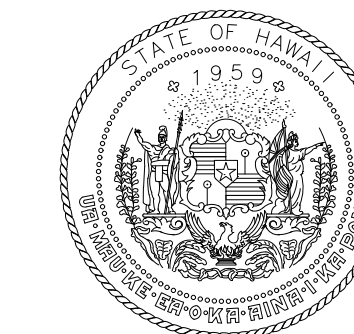
**ACCU-3 CONNECTED SYSTEM**

1. CARPENTER SHOP BREAK ROOM WILL BE SERVED BY A FCU. THE FAN COIL UNIT SHALL BE CONTROLLED VIA ITS OWN THERMOSTAT MOUNTED ON THE WALL WHERE INDICATED ON THE DRAWINGS.
2. THE SYSTEM SHALL MAINTAIN THE ROOM TEMPERATURE AT 76 DEGREES F DURING OCCUPIED HOURS AND 83 DEGREES F DURING UNOCCUPIED HOURS. TEMPERATURE WILL BE SAMPLED AT T-STAT.

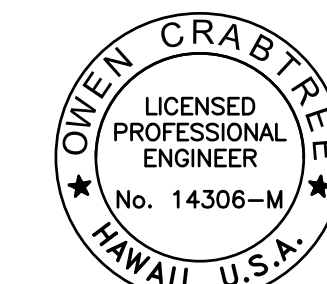
**GENERAL HVAC SCHEDULING AND SEQUENCE**

SEQUENCE OF OPERATION: UNLESS OTHERWISE INDICATED, THE BUILDING SHALL OPERATE UNDER THESE GENERAL SCHEDULING CONDITIONS.

- A. ALL HVAC SYSTEMS SHALL BE PROVIDED WITH OPTIMAL START AND STOP TO WARM UP AND COOL DOWN THE BUILDING PRIOR TO AND AT THE END OF NORMAL OCCUPIED HOURS. TEMPERATURE OVERRIDE SHALL BE AVAILABLE AT THE ROOM T-STAT FOR EACH OCCUPANT.
- B. SCHEDULING SHALL BE FULLY ADJUSTABLE AND COORDINATED WITH THE USERS.
- C. THERMOSTAT SET POINTS SHALL IN GENERAL BE 76 °F.
- D. **CEILING FANS:** CEILING FANS SHALL BE ON DURING BUSINESS HOURS. UPON ACTIVATION OF FIRE ALARM SYSTEM, CEILINGS FANS SHALL BE TURNED OFF. THE FANS SHALL AUTOMATICALLY TURN ON WHEN ALL ALARM SIGNALS HAVE BEEN CLEARED.



Airports Division  
DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



EXP. 4/30/2024

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WJ	WJ	OC	

NO.	DATE	REVISIONS

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PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**MECHANICAL SEQUENCING**

DATE :

05/10/23

SHEET :

44 OF 84 SHEETS

DWG. NO.

**M901**

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PLUMBING LEGEND		
SYMBOL	ABBRV.	DESCRIPTION
	BV	BALL VALVE
	BFV	BUTTERFLY VALVE
	CD	CONDENSATE DRAIN
	CO	CLEAN OUT
	COTG	CLEAN OUT TO GRADE
	CV	CHECK VALVE
	GV	GATE VALVE
		CAPPED/STUBOUT PIPE
	CW	COLD WATER
	DF	DRINKING FOUNTAIN
	EEW	EMERGENCY EYEWASH
	(E)	EXISTING
	FCO	FLOOR CLEANOUT
	FD	FLOOR DRAIN
	HB	HOSE BIBB
	HW	HOT WATER
	(N)	NEW
	PD	PLANTER DRAIN
	POC	POINT OF CONNECTION
	POR	POINT OF REMOVAL
		PRESSURE GAUGE
	RD	ROOF DRAIN
	REF	REFRIGERATOR
	RBPBP	REDUCED PRESS. BACKFLOW PREVENT
	S	LAVATORY SINK
	SAN OR W	SANITARY OR WASTE
	SD	STORM DRAIN
	SH	SHOWER
	SK	SINK
	SS	SERVICE SINK
		STRAINER
	T & P	TEMP. AND PRESS. RELIEF VALVE
		THERMOMETER
		UNION
	U	URINAL
	V	VENT
	VTR	VENT TO ROOF
	WC	WATER CLOSET
	WCO	WALL CLEAN OUT
	WH	WATER HEATER
	WHA	WATER HAMMER ARRESTOR

**BOARD OF WATER SUPPLY NOTE:**

THE AIR CONDITIONING WORK WILL NOT AFFECT THE WATER DEMAND.

**BOARD OF WATER SUPPLY NOTE:**

PREMISE ID#: HONOLULU INTERNATIONAL AIRPORT  
METER NUMBER (M/N): -

**BWS FLOW REQUIREMENTS:**

DESCRIPTION	FU	GPM	GPD
A. PROPOSED DOMESTIC (ALL FIXTURES BEING INSTALLED)	46.8	27.4	--
B. PROPOSED IRRIGATION	0	0	0
C. OTHER	0	0	0
D. TOTAL PROPOSED	46.8	27.4	--
E. DEMOLITION (ALL FIXTURES BEING REMOVED)	2.3	2.0	--
F. NET CHANGE: (SUBTRACT "E" FROM "D" ABOVE)	44.5	26.6	--
G. EXISTING TO REMAIN:	0	0	--
H. GRAND TOTAL (ADD "D" AND "G" ABOVE)	46.8	27.4	--

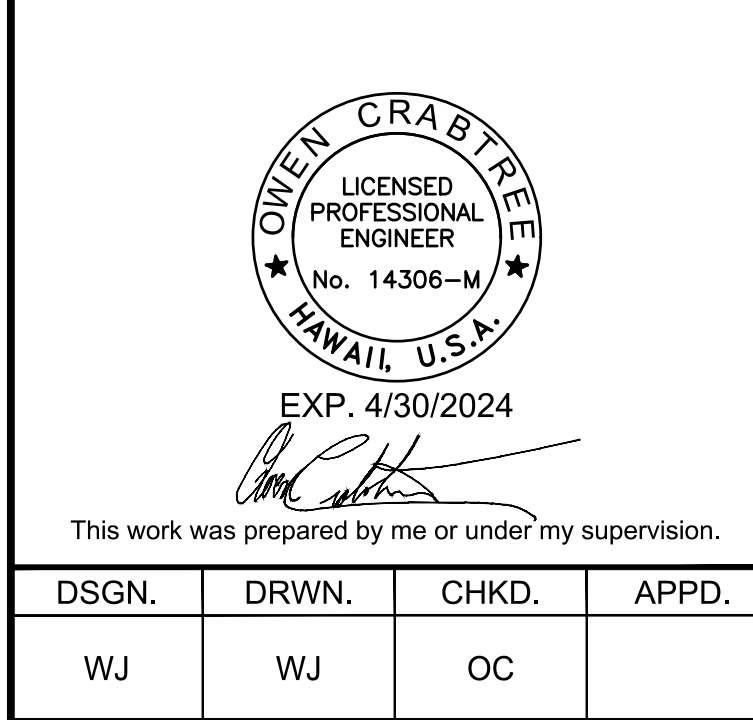
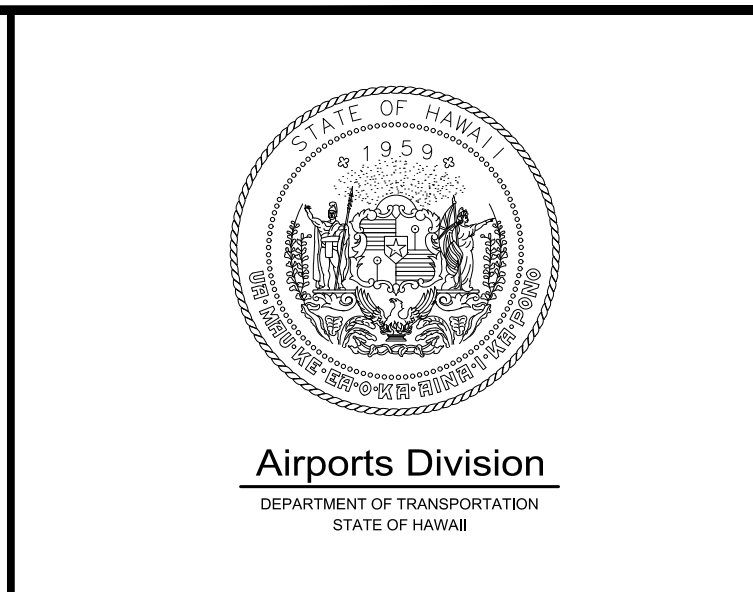
**WATER DEMAND FIXTURE UNIT CALCULATIONS**

FIXTURE UNIT	NEW		
	QTY	FU (EA)	FU (TOTAL)
WC (FLUSH VALVE)	4	3.4	13.60
UR	4	1.7	6.80
LAV	4	0.6	2.40
DF	4	1.6	6.40
SH	4	1.6	6.40
SK	2	1.6	3.20
SS	4	2.0	8.00
			TOTAL:46.8
FIXTURE UNIT	DEMO		
	QTY	FU (EA)	FU (TOTAL)
UR	1	1.7	1.70
LAV	1	0.6	0.60
			TOTAL:2.3

THE EXISTING DOMESTIC WATER METER DOES NOT SERVE ANY AUTOMATIC FIRE SPRINKLER SYSTEM. THIS WATER METER DOES SERVE AN IRRIGATION SYSTEM.

**PLUMBING GENERAL NOTES:**

1. THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODE (INCLUDING NFPA 1, AS ADOPTED BY THE STATE FIRE CODE), NATIONAL ELECTRICAL CODE, STATE PLUMBING CODE (2018 UNIFORM PLUMBING CODE AS ADOPTED), STATE BUILDING CODE (2018 IBC, AS ADOPTED) AND ALL OTHER LOCAL AGENCIES HAVING JURISDICTION.
2. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER THE COMPLETE INSTALLATION OF SYSTEMS TO FUNCTION AS DESCRIBED AND SPECIFIED. THE OMISSION OF REFERENCE TO ANY NECESSARY ITEM OF LABOR OR MATERIAL SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH LABOR AND MATERIAL.
3. ALL EQUIPMENT SHALL BE CAPABLE OF FITTING INTO THE SPACES ALLOCATED WHILE MEETING THE MANUFACTURER'S RECOMMENDED ACCESS REQUIREMENTS. REVIEW ALL SPACES WHERE EQUIPMENT IS TO BE INSTALLED PRIOR TO ORDERING OF EQUIPMENT AND NOTIFY THE ENGINEER OF ANY INADEQUATE CLEARANCES OR CONDITIONS THAT WILL PREVENT THE PROPER INSTALLATION, MAINTENANCE, AND OPERATION OF THE EQUIPMENT.
4. COORDINATE WITH OTHER TRADES PRIOR TO COMMENCING AND DURING CONSTRUCTION. OVERLAY PLANS AND CHECK FOR ANY DISCREPANCIES OR CONFLICTS WITH OTHER TRADES.
5. VERIFY AND COORDINATE ALL ROOF, WALL AND FLOOR PENETRATIONS WITH THE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO START OF CONSTRUCTION.
6. NO PENETRATIONS SHALL BE MADE THROUGH STRUCTURAL MEMBERS, WALLS AND SLABS WITHOUT FIRST COORDINATING WITH STRUCTURAL ENGINEER.
7. VERIFY THE EXACT LOCATION, SIZE, AND INVERT OF ALL EXISTING SEWER, AND WATER LINES AT THE POINT OF CONNECTION TO CIVIL UTILITIES PRIOR TO THE START OF CONSTRUCTION.
8. DRAWINGS DO NOT ATTEMPT TO SHOW EXACT DETAILS OF PIPING. PROVIDE OFFSETS AS NECESSARY TO AVOID LOCAL OBSTRUCTIONS OR INTERFERENCE WITH OTHER TRADES. REVIEW ALL PIPING AND DUCT RUNS PRIOR TO FABRICATION AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY INTERFERENCE AND/OR LACK OF ADEQUATE CLEARANCES.
9. SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF WORK, MARK SUCH CHANGES ON THE AS-BUILT DRAWINGS AND NOTIFY THE ENGINEER. IF THESE CHANGES REQUIRE ALTERNATE METHODS TO THOSE APPROVED BY THE CONTRACT DOCUMENTS, SUBMIT SHOP DRAWINGS SHOWING THE PROPOSED ALTERNATE METHODS TO THE ENGINEER FOR REVIEW. DO NOT PROCEED UNTIL REVIEWED.
10. PATCH AND PAINT ALL EXPOSED MATERIAL, INCLUDING PIPING, TO MATCH ADJACENT SURFACES OR AS INDICATED.
11. PROPERLY FIRE STOP ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, OR PARTITIONS WITH A UL APPROVED SYSTEM APPROPRIATE FOR THE PENETRATION TYPE AND FIRE RATING IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. FIRE STOP ALL PENETRATIONS BETWEEN FLOORS.
12. PROVIDE ACCESS PANELS TO ALL CONCEALED VALVES, DAMPERS, AND EQUIPMENT. COORDINATE THE LOCATION OF ACCESS PANELS TO INSURE THAT THE EQUIPMENT CAN BE MAINTAINED ADEQUATELY.
13. SEISMICALLY BRACE ALL EQUIPMENT AND PIPING IN ACCORDANCE WITH THE SPECIFICATIONS FOR SEISMIC 2A.
14. INSTALL CONDENSATE DRAINS AT A MINIMUM SLOPE OF 2%. INDIVIDUAL UNIT CONDENSATE DRAINS SHALL BE 1" DIAMETER LINES AND 1-1/4" FOR COMBINED LINES UNLESS OTHERWISE INDICATED.
15. INSULATE ALL SEWER PIPING RECEIVING AIR CONDITIONING CONDENSATE DRAINS, OR ANY OTHER COLD LIQUID WHICH MAY CREATE CONDENSATION, FROM POINT OF CONNECTION TO TOP OF CONCRETE SLAB-ON-GRADE. INSULATE FLOOR DRAIN AND FLOOR SINK BODIES EXPOSED TO AIR BELOW THE FLOOR.
16. ROUTE ALL CONTROL AND MOTOR STARTER WIRING IN CONDUIT.
17. PROVIDE AND INSTALL WALL CLEANOUTS AT THE BASE OF ALL WASTE RISERS, UNLESS NOTED OTHERWISE.
18. SLOPE SANITARY SEWER 1/4" PER FOOT UNLESS NOTED OTHERWISE.
19. ALL EXPOSED WASTE AND SUPPLY PIPING IN FINISHED AREAS SHALL BE CHROME PLATED OR COPPER.



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WJ	WJ	OC	

NO.	DATE	REVISIONS

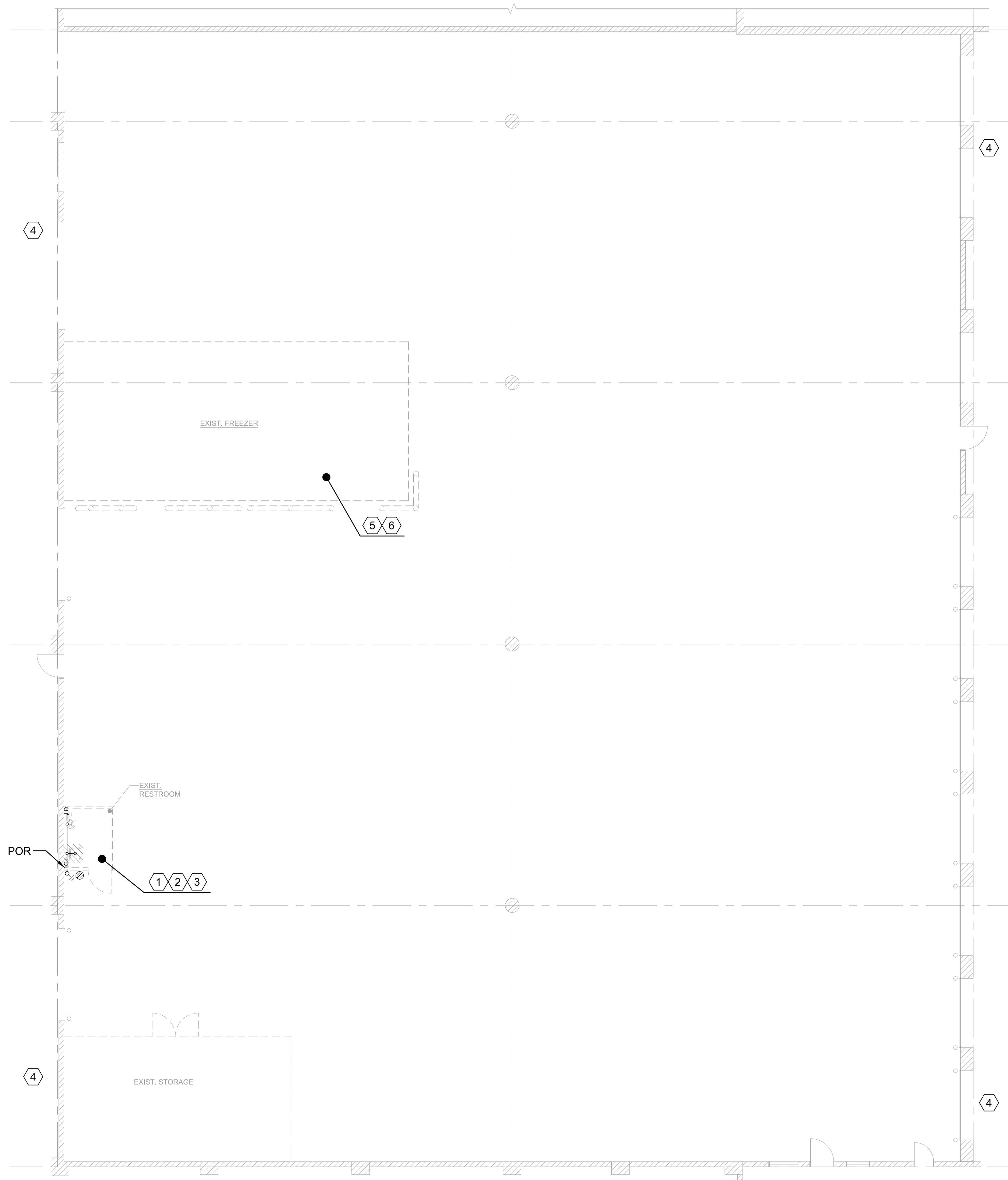
PROJECT TITLE :  
**CONVERT CARGO BUILDING TO WORKSHOP**  
AT DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:  
**CO1325-33**

SHEET TITLE:

**PLUMBING NOTES AND LEGEND**

DATE :	DWG. NO.
05/10/23	P001
SHEET :	
45 OF 84 SHEETS	



**GENERAL NOTES:**

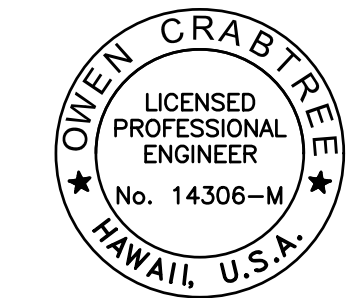
1. CONTRACTOR TO FIELD VERIFY ALL EXISTING COLD WATER CONDITIONS AND ALL EXISTING SANITARY SEWER LINES.

**DEMO KEY NOTES:**

- 1 REMOVE EXISTING URINAL AND ASSOCIATED PIPING AND APPURTENANCES.
- 2 REMOVE EXISTING LAVATORY AND ASSOCIATED PIPING AND APPURTENANCES.
- 3 REMOVE EXISTING FLOOR DRAIN AND WALL CLEANOUT.
- 4 REMAIN ALL EXISTING HOSE BIBS. CONTRACTOR TO FIELD VERIFY.
- 5 REMOVE ALL EXISTING PLUMBING FIXTURES AND ASSOCIATED PIPING AND APPURTENANCES IN EXISTING FREEZER AREA.
- 6 REMOVE WATER PIPING CONNECTION LINES AND SANITARY SEWER LINES TO BELOW GRADE AND CAP STUB PIPES AND CONCEAL ALL WORK IN EXSITING FREEZER AREA.



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STATE OF HAWAII



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NO.	DATE	REVISIONS

DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**PLUMBING REMOVAL PLAN**

DATE :

**05/10/23**

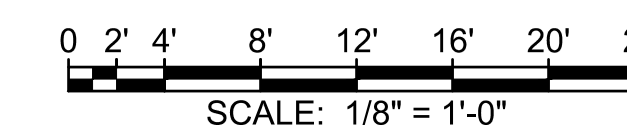
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46 OF 84 SHEETS

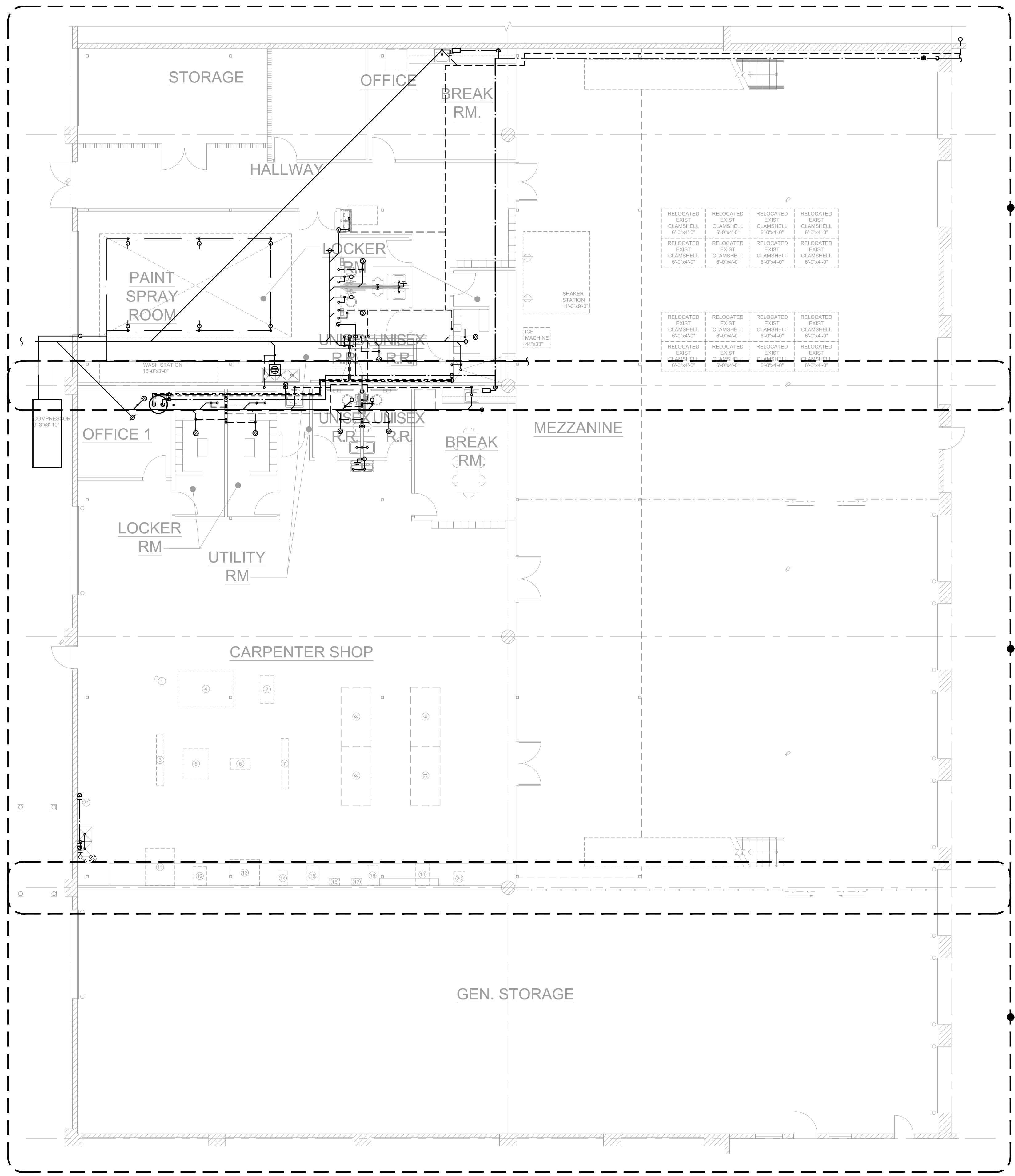
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**P101**

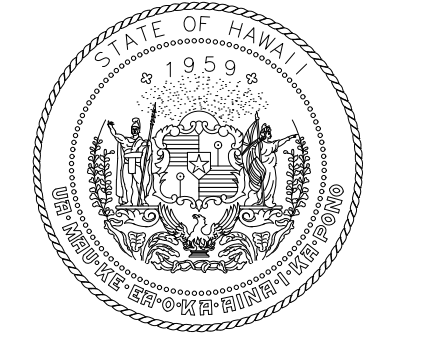
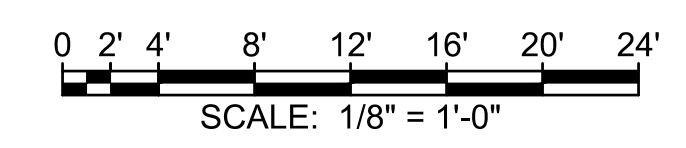
1 PLUMBING REMOVAL PLAN  
P101 SCALE: 1/8" = 1'-0"



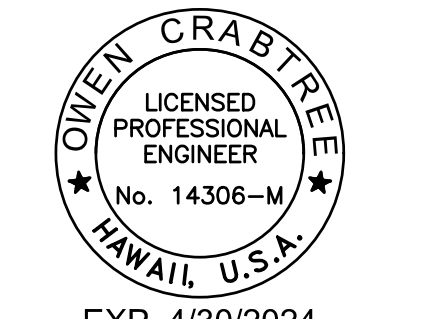
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1 OVERALL PLUMBING PLAN  
 P102 SCALE: 1/8" = 1'-0"



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AT  
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 HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**OVERALL PLUMBING PLAN**

DATE :  
 05/10/23

SHEET :  
 47 OF 84 SHEETS

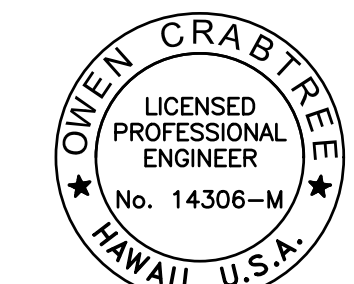
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DATE

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TO WORKSHOP**

AT  
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HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**ENLARGED  
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DATE :

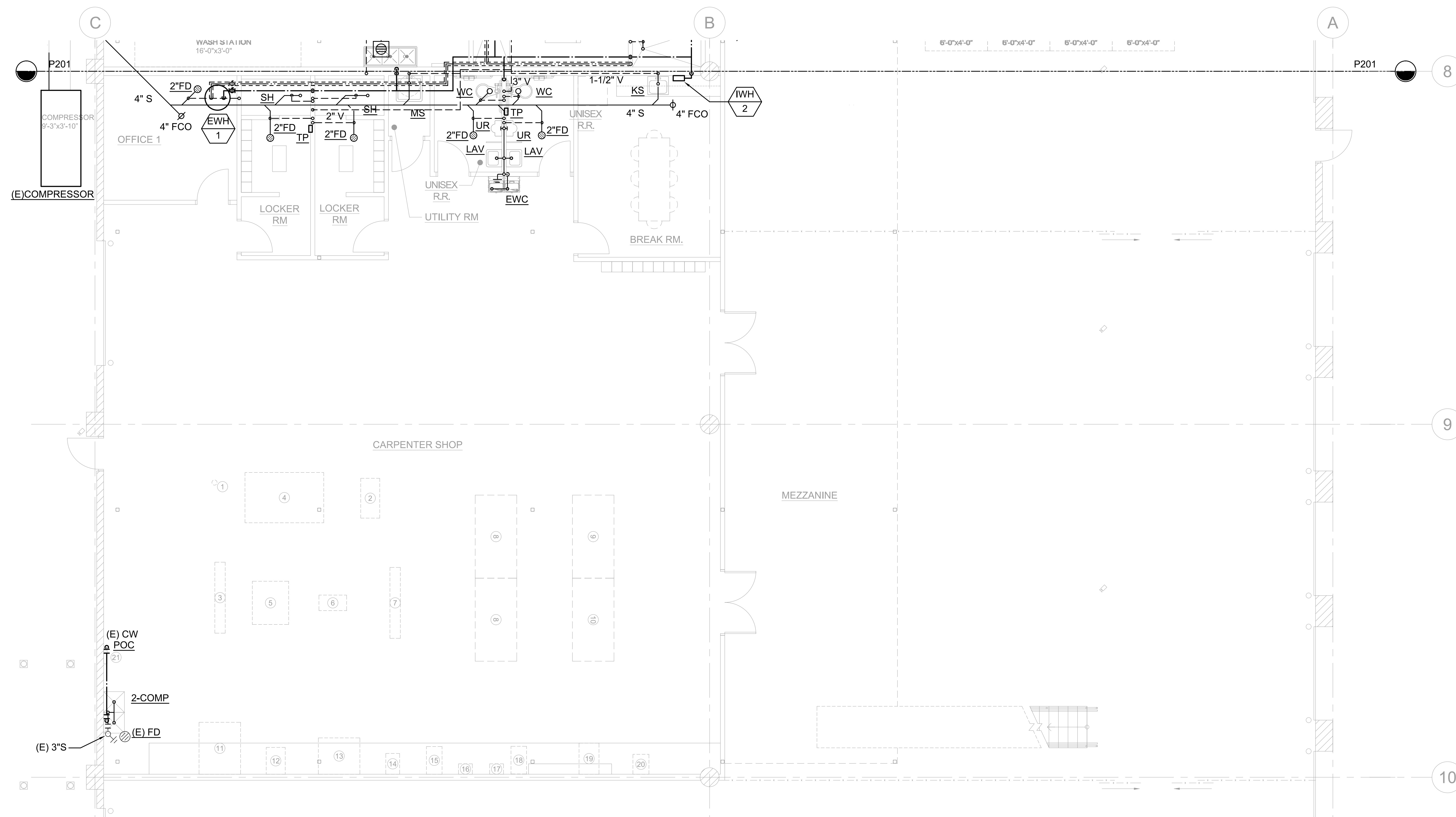
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SHEET :

49 OF 84 SHEETS

DWG. NO.

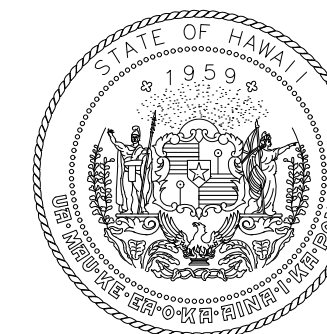
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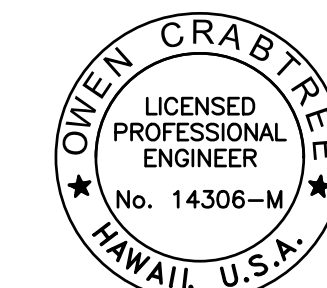
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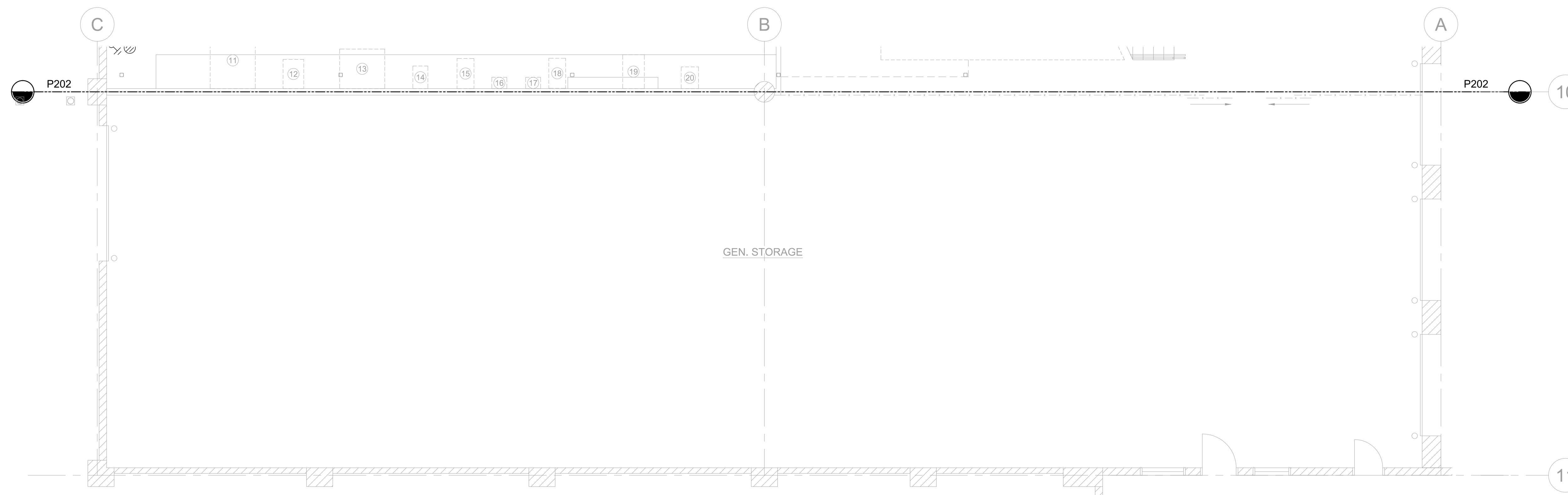
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STATE OF HAWAII



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HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**ENLARGED  
PLUMBING PLAN - 03**

DATE :

**05/10/23**

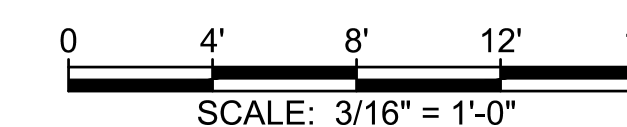
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**50 OF 84 SHEETS**

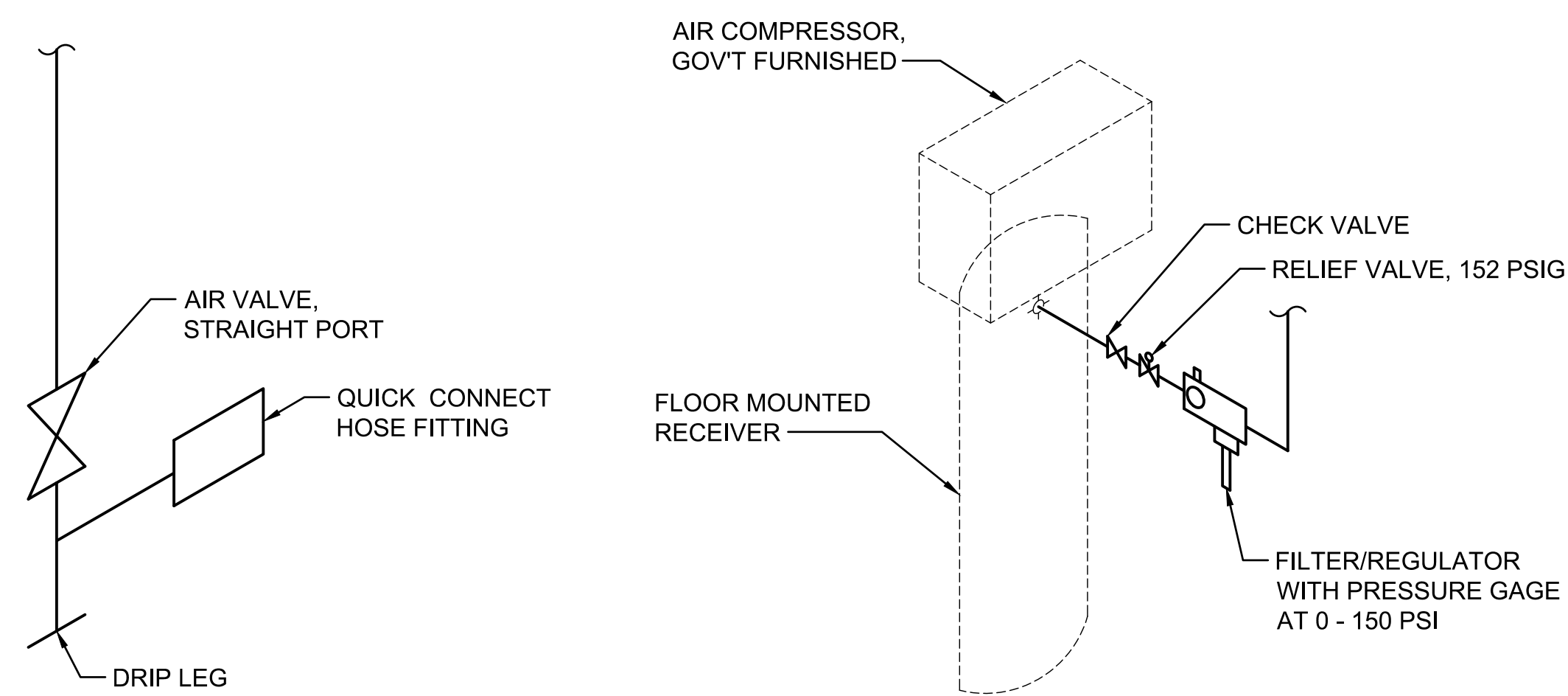
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**P203**

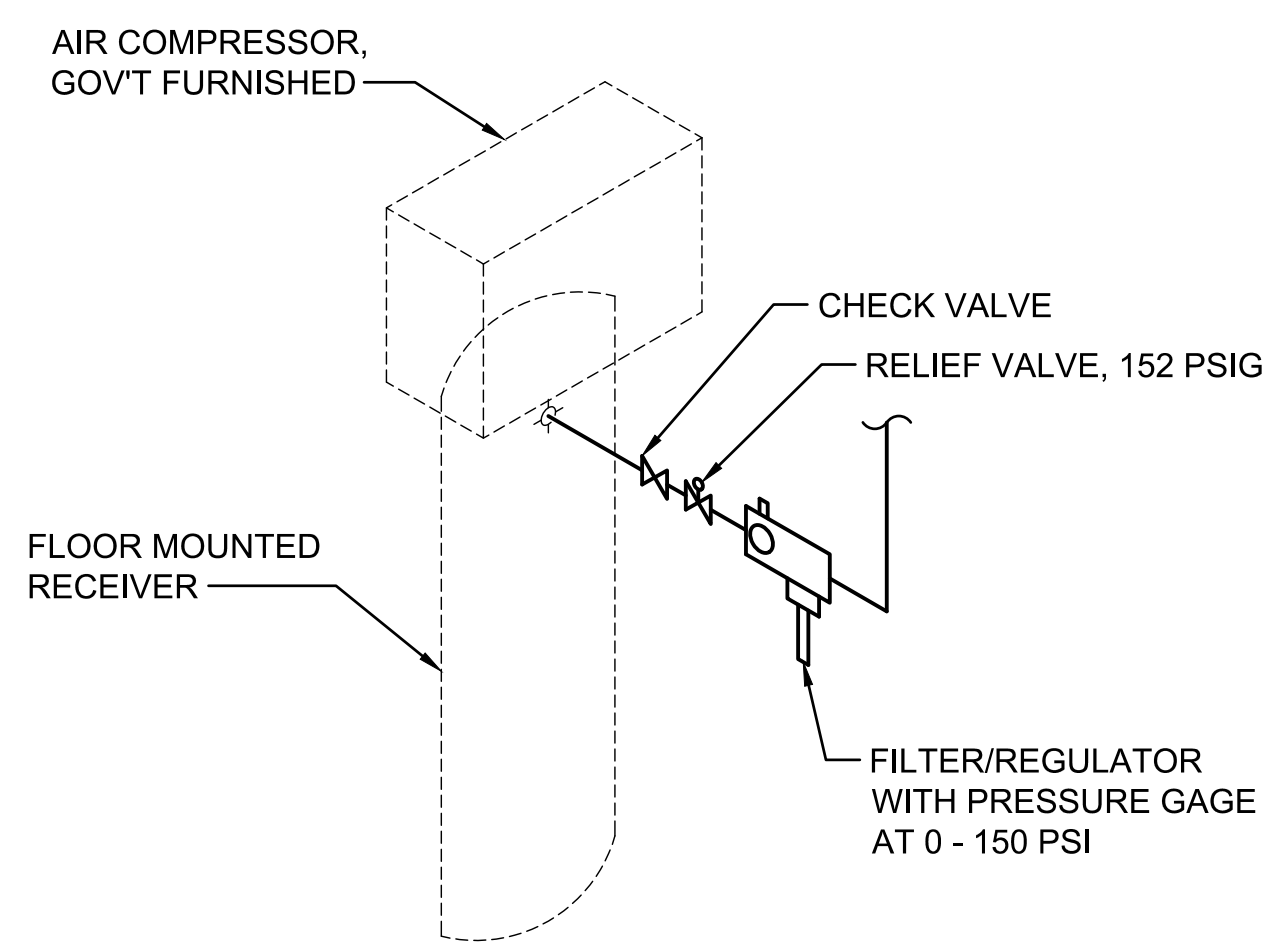
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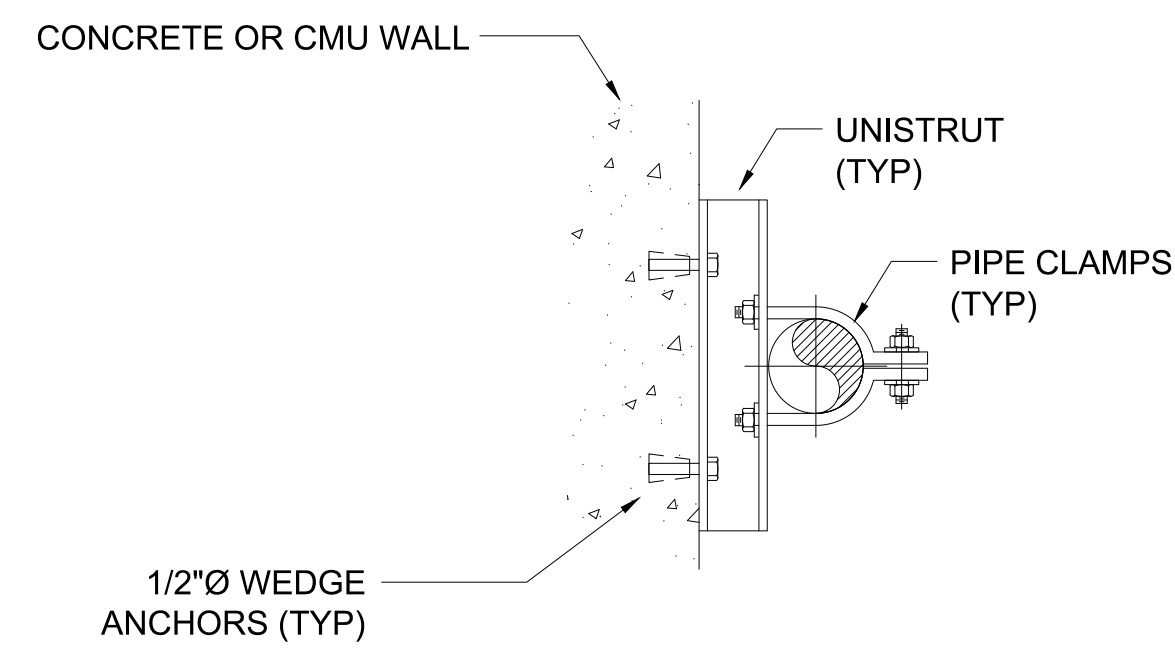
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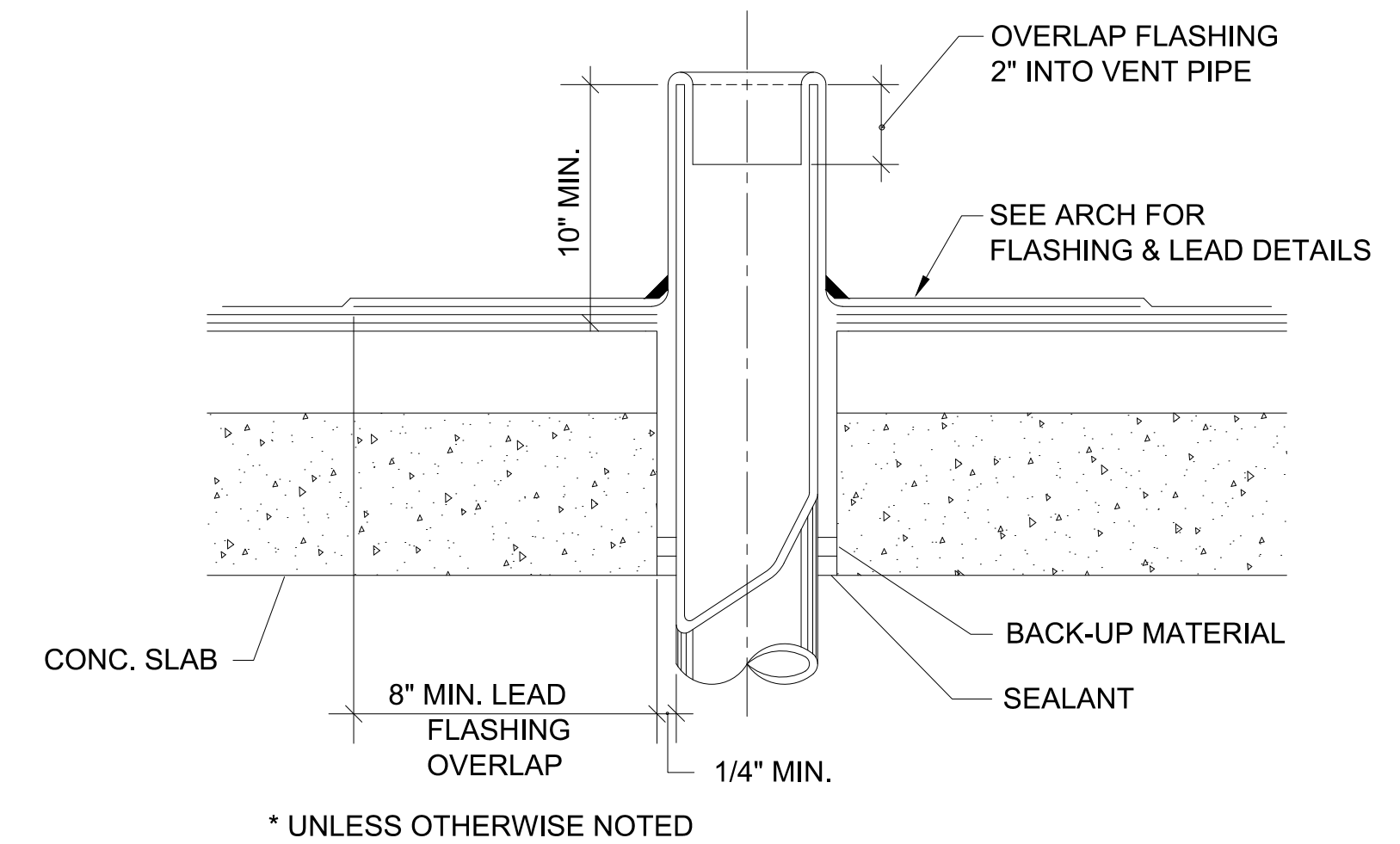
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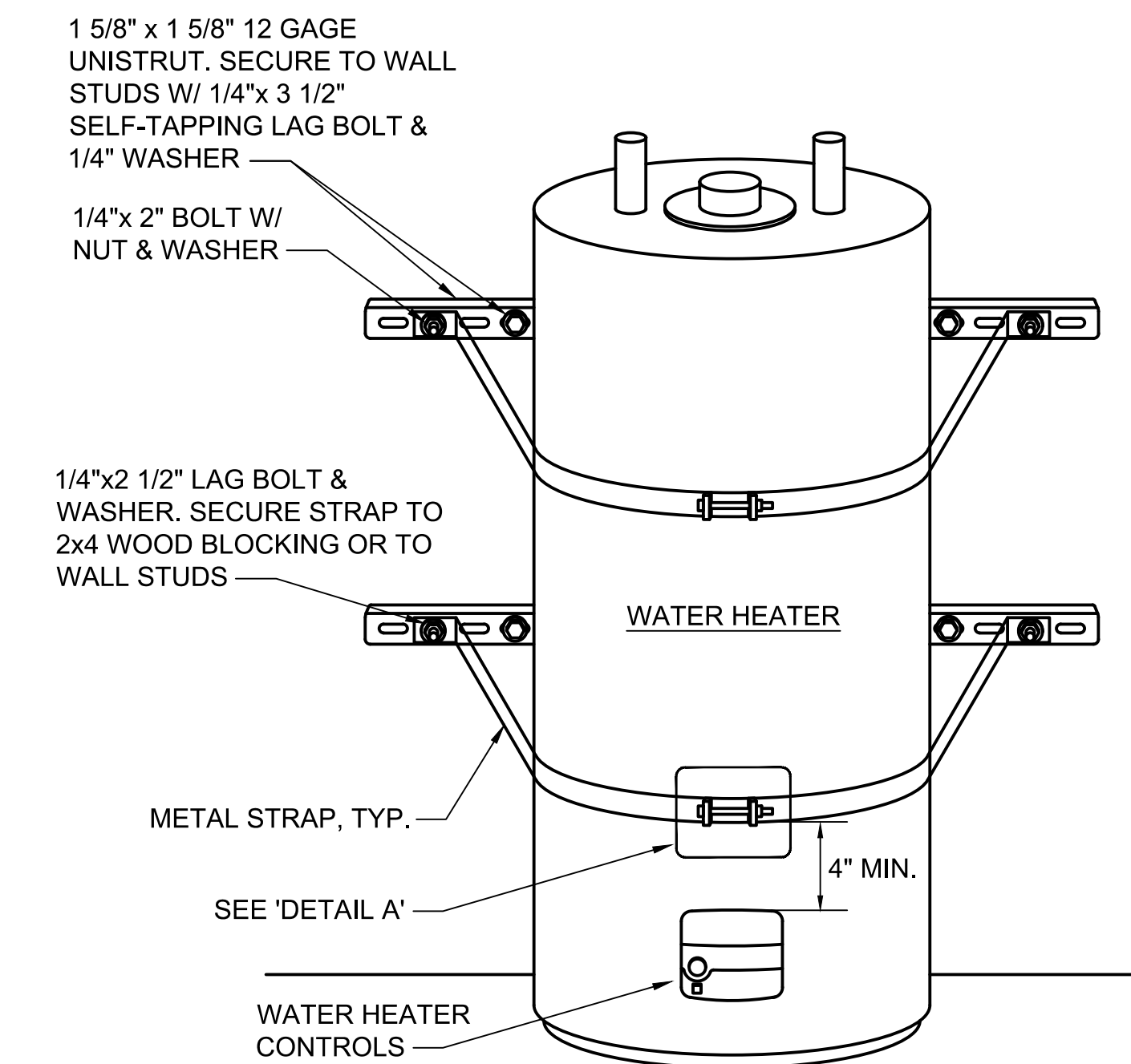
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NOT TO SCALE



**3 WALL MOUNT PIPE SUPPORT DETAIL**  
NOT TO SCALE

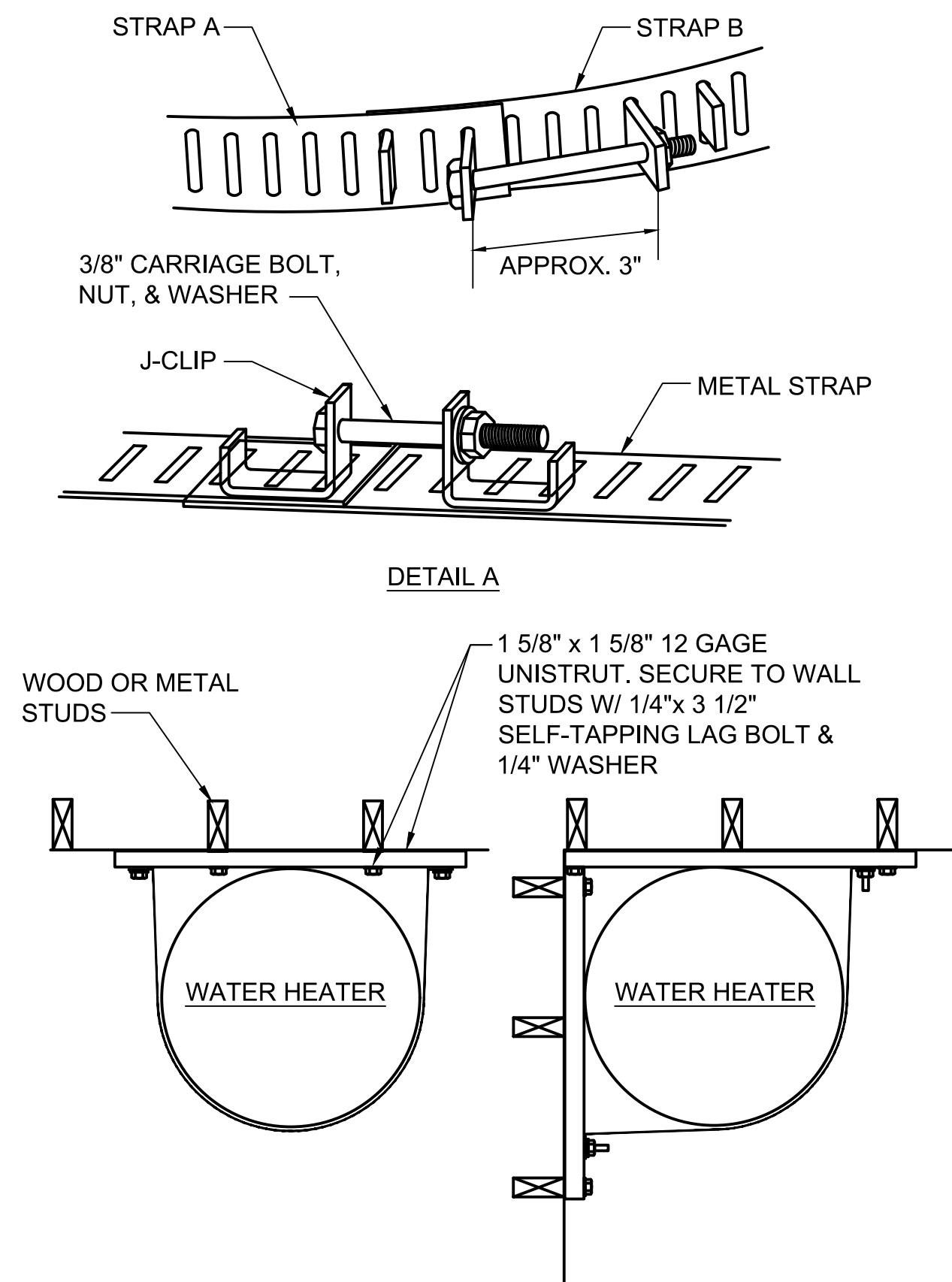


**4 VENT THRU ROOF DETAIL**  
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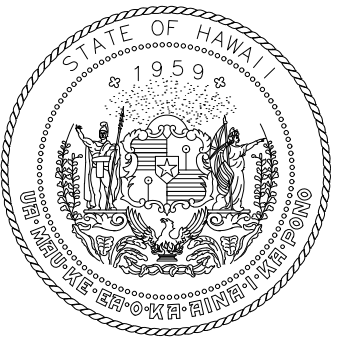


- NOTES:
- STRAPS MUST BE INSTALLED IN THE UPPER AND LOWER 1/3 OF THE WATER HEATER. THE LOWER STRAP MUST BE MIN. 4" ABOVE THE WATER HEATER CONTROLS.
  - SECURE STRAPS TO WALL STUDS OR WOOD BLOCKING IF STUD LOCATIONS DO NOT LINE UP.
  - PROVIDE WITH QUICK STRAP WATER HEATER RESTRAIN BRACKETS OR APPROVED EQUAL.

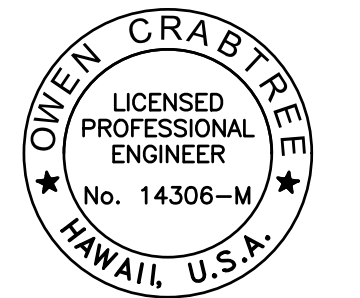
**5 WATER HEATER SEISMIC RESTRAINT**  
NOT TO SCALE



**6 TYP. FLOOR DRAIN DETAIL**  
NOT TO SCALE



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NO.	DATE	REVISIONS
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DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**PLUMBING DETAILS**

DATE :

05/10/23

SHEET :

51 OF 84 SHEETS

DWG. NO.

**P501**

### INSTANTANEOUS TANKLESS WATER HEATER (IWH)

MARK	LOCATION	SERVICE	FLOW (GPM)	ELECTRICAL			BASIS OF DESIGN
				KW	A	V	
IWH-1	PAINT SHOP BREAK ROOM	BREAK ROOM KITCHEN SHINK	UP TO 2.0 FOR SINKS	8.3	40	208	EEMAX SPEX8208T
IWH-2	CARPENTER SHOP BREAK ROOM	BREAK ROOM KITCHEN SHINK	UP TO 2.0 FOR SINKS	8.3	40	208	EEMAX SPEX8208T

### HOT WATER HEAT PUMP SCHEDULE

UNIT	LOCATION	SERVICE	RECOVERY RATE AT 70°F (GPH)	TANK STORAGE (GAL)	ELECTRICAL - HEATER			INPUT (KW)	MAX DIA (INCH)	BASIS OF DESIGN	REMARK
					V	PH	HZ				
EWH-1	CARPENTER SHOP OFFICE	PAINT/CARPENTER LOCKER RMS/UTILITY RM	50	120	240	1	60	6.0	28	LOCHINVAR CHPA120PD	MIXING VALVE, VACUUM RELIEF VALVE AND ISOLATION VALVES ON CW IN & HW OUT.

### EXPANSION TANK (ET) SCHEDULE

UNIT	LOCATION	SYSTEM SERVED	TYPE	ACCEPT. VOLUME (GAL)	TEMP. RANGE (DEG F)		TANK VOL. (GAL.)
					MIN.	MAX.	
ET-1	PAINT SHOP LOCKER RM	LOCKER RMS/UTILITY RM	DIAPHRAGM	5.3	70	120	6

### EXISTING AIR COMPRESSOR SCHEDULE

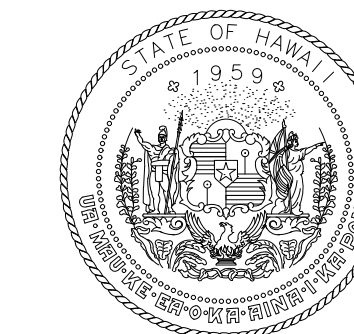
UNIT	LOCATION	TYPE	CFM	COMPRESSOR		FAN		ELECTRICAL				WEIGHT (LBS)	BASIS OF DESIGN	REMARK
				NO.	HP	NO.	HP (WATT)	FLA	V	PH	HZ			
(E) AC-1	-	-	40	1	1/3	1	16	19	115	1	60	650	PNEUMATECH ADA-40	1

NOTES:  
1. OWENER FURNISHED, CONTRACTOR INSTALLED.

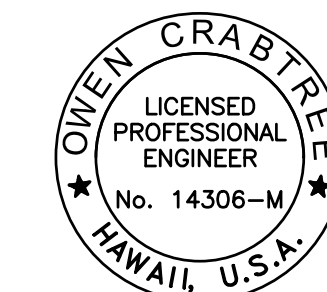
### PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	TRAP SIZE	WASTE	VENT	HOT WATER	COLD WATER	NOTES
WC	PUBLIC WATER CLOSET, FLOOR MOUNTED FLUSH VALVE	INTEGRAL	4"	2"	-	1"	ELONGATED WITH OPEN FRONT, HEAVY DUTY WAX RING, 1.28 GPF QUARTER TURN BALL VALVE
UR	URINAL, WALL MOUNTED	INTEGRAL	2"	2"	-	3/4"	VITREOUS CHINA, MANUAL FLUSH VALVE. 0.5 GPF. QUARTER TURN BALL VALVE
LAV	LAVATORY, UNDERCOUNTER	1-1/2"	1-1/2"	2"	1/2"	1/2"	SINGLE HOLE CENTERSET, 0.5 GPM QUARTER TURN BALL VALVE
KS	KITCHEN SINK	1-1/2"	1-1/2"	2"	1/2"	1/2"	STAINLESS STEEL, 1.5 GPM FAUCET PROVIDE WITH 1/2 HP GARBAGE DISPOSAL. QUARTER TURN BALL VALVE.
SHWR	SHOWER	2"	2"	2"	1/2"	1/2"	PROVIDE 1.5 GPM LOW FLOW SHOWER HEAD, THERMOSTATIC TYPE MIXING VALVE TO ALLOW, MAXIMUM 120°F HOT WATER AT SHOWER HEAD.
EWC	ELECTRIC WATER COOLER	2"	2"	2"	-	1/2"	DOUBLE BASIN WITH BOTTLE FILLER.
MS	MOP SINK	2"	2"	2"	-	1/2"	2.0 GPM, CAST IRON, FLOOR MOUNT
FS	FLOOR SINK	2"3/4"	2"3/4"	2"	-	-	REFER TO DRAWINGS FOR SIZES
FD	FLOOR DRAIN	2"	2"	2"	-	-	PROVIDE TRAP PRIMER.
TP	TRAP PRIMER	-	-	-	-	1/2"	PROVIDE WITH ACCESS PANEL WHEN INSTALLED IN CONCEALED LOCATION

NOTES:  
1. REFER TO ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURES PRODUCT DATA  
2. ALL POTABLE WATER FIXTURE TO BE CERTIFIED LEAD FREE



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STATE OF HAWAII



EXP. 4/30/2024

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NO.	DATE	REVISIONS

DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**PLUMBING SCHEDULES**

DATE :	DWG. NO.
05/10/23	P601
SHEET :	
52 OF 84 SHEETS	

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**FIRE PROTECTION GENERAL NOTES:**

- THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE HAWAII STATE FIRE CODE, UNIFORM FIRE CODE, NATIONAL FIRE PROTECTION ASSOCIATION CODE, NATIONAL ELECTRICAL CODE, AND ALL OTHER AGENCIES HAVING JURISDICTION.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER THE COMPLETE INSTALLATION OF SYSTEMS TO FUNCTION AS DESCRIBED AND SPECIFIED. THE OMISSION OF REFERENCE TO ANY NECESSARY ITEM OF LABOR OR MATERIAL SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH LABOR AND MATERIAL.
- ALL EQUIPMENT SHALL BE CAPABLE OF FITTING INTO THE SPACES ALLOCATED WHILE MEETING THE MANUFACTURER'S RECOMMENDED ACCESS REQUIREMENTS. REVIEW ALL SPACES WHERE EQUIPMENT IS TO BE INSTALLED PRIOR TO ORDERING OF EQUIPMENT AND NOTIFY THE ENGINEER OF ANY INADEQUATE CLEARANCES OR CONDITIONS THAT WILL PREVENT THE PROPER INSTALLATION, MAINTENANCE, AND OPERATION OF THE EQUIPMENT.
- PROVIDE SHOP DRAWINGS FOR THE LAYOUT OF FIRE SPRINKLER AND FIRE ALARM SYSTEMS SHOWING COORDINATION OF ALL WORK WITH ALL OTHER TRADES, INCLUDING PLUMBING, AIR CONDITIONING, CONTROLS, ELECTRICAL AND COMMUNICATION SYSTEMS. COORDINATION DRAWINGS SHALL OVERLAY HVAC, PLUMBING, FIRE SPRINKLER, ELECTRICAL AND FIRE ALARM SYSTEMS, AND ALL CONFLICTS BETWEEN TRADES SHALL BE NOTED AND RESOLVED.
- VERIFY AND COORDINATE ALL ROOF, WALL AND FLOOR PENETRATIONS WITH THE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO START OF CONSTRUCTION.
- OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER BEFORE MAKING ANY PENETRATIONS THROUGH STRUCTURAL MEMBERS, WALLS AND SLABS.
- TONE AND LOCATE ALL UTILITY LINES OR OTHER INTERFERENCES IN AREAS OF PROPOSED TRENCH WORK PRIOR TO START OF EXCAVATION. REPAIR OR PAY FOR ALL DAMAGES TO EXISTING UTILITIES.
- DRAWINGS DO NOT ATTEMPT TO SHOW EXACT DETAILS OF PIPING. PROVIDE OFFSETS AS NECESSARY TO AVOID LOCAL OBSTRUCTIONS OR INTERFERENCE WITH OTHER TRADES. REVIEW ALL PIPING AND DUCT RUNS PRIOR TO FABRICATION AND IMMEDIATELY NOTIFY THE GENERAL CONTRACTOR OF ANY INTERFERENCE AND/OR LACK OF ADEQUATE CLEARANCES.
- SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF WORK, MARK SUCH CHANGES ON THE AS-BUILT DRAWINGS AND NOTIFY THE ENGINEER. IF THESE CHANGES REQUIRE ALTERNATE METHODS TO THOSE APPROVED BY THE CONTRACT DOCUMENTS, SUBMIT SHOP DRAWINGS SHOWING THE PROPOSED ALTERNATE METHODS TO THE ENGINEER FOR REVIEW. DO NOT PROCEED UNTIL REVIEWED.
- REPAIR ANY DAMAGE TO EXISTING CONSTRUCTION RESULTING FROM THE INSTALLATION OF MECHANICAL ITEMS. THE AREAS REPAIRED SHALL MATCH THE ADJACENT SURFACES IN TEXTURE AND COLOR.
- PROPERLY FIRE STOP ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, OR PARTITIONS WITH A UL APPROVED SYSTEM APPROPRIATE FOR THE PENETRATION TYPE AND FIRE RATING IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. FIRE STOP ALL PENETRATIONS BETWEEN FLOORS.
- SEISMICALLY BRACE ALL EQUIPMENT AND PIPING IN ACCORDANCE WITH THE SPECIFICATIONS. PROVIDE ZONE-OF-INFLUENCE CALCULATIONS.
- TWO SETS (2) OF COMPLETE WORKING PLANS AND HYDRAULIC CALCULATIONS STAMPED AND SIGNED BY A HAWAII LICENSED MECHANICAL ENGINEER SHALL BE SUBMITTED, AS APPLICABLE, TO THE FIRE PROTECTION SPECIAL INSPECTOR (FPSI) FOR CODE COMPLIANCE REVIEW. ONE (1) SET WITH THE FPSI APPROVAL STAMP SHALL BE SUBMITTED TO THE DPP BUILDING DIVISION ALONG WITH THE FPSI FINAL REPORT/LETTER PRIOR TO CLOSING OF THE BUILDING PERMIT.
- COORDINATE WITH OTHER TRADES AND CONFIRM THE EXACT EQUIPMENT LOCATIONS AND MOUNTING HEIGHT OF THE MECHANICAL EQUIPMENTS, FIRE ALARM DEVICES, PLUMBING WORK, ELECTRICAL WORK, LIGHT FIXTURES, AND AIR CONDITIONING DUCTS.
- SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS AND SLABS USING A U.L. LISTED FIRE RATED SEALANT TO MAINTAIN THE INTEGRITY OF THE FIRE RATING.

**FIRE PROTECTION UNDERGROUND NOTES:**

- UNDERGROUND FIRE PROTECTION WATER LINE DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 24 AND SPECIFICATIONS.
- ALL DEVICES AND EQUIPMENT SHALL BE LISTED IN UL FPED OR FM P7825a FOR UNDERGROUND FIRE SERVICE.
- PIPING SHALL BE DUCTILE IRON WITH A RATED WORKING PRESSURE OF 175 PSI CONFORMING TO AWWA C151, WITH CEMENT MORTAR LINING CONFORMING TO AWWA C104. MINIMUM BURIAL DEPTH OF PIPE SHALL BE 36".
- PROVIDE PROPER THRUST RESTRAINT AT ALL CHANGES IN DIRECTION OF PIPE.

**FIRE SPRINKLER SYSTEM NOTES:**

- FIRE SPRINKLER SYSTEM SHALL COMPLY WITH NFPA 13, NFPA 24, AND THE SPECIFICATIONS.
- THE FIRE SPRINKLER SYSTEM SHOWN IS CONCEPTUAL. THE EQUIPMENT IS SHOWN IN SUGGESTED LOCATIONS, FINAL QUANTITY AND LAYOUT SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS, AND EQUIPMENT LISTING. SHOP SUBMITTALS SHALL SHOW SPRINKLER DETAILS IN ACCORDANCE WITH NFPA 13 AND THE MANUFACTURER'S EQUIPMENT LISTING INSTALLATION REQUIREMENTS.

- AUTOMATIC SPRINKLER PROTECTION IS REQUIRED THROUGHOUT THE ENTIRE BUILDING IN ACCORDANCE WITH NFPA 13.
- FIRE SPRINKLER SHALL BE SERVED BY WATER SUPPLY SOURCE SERVING THE MAINTENANCE FACILITY. THE FLOW TEST INFORMATION BELOW IS USED AS INFORMATION ONLY FOR THE AIRPORT WATER DEMAND AND SHALL NOT BE USED FOR THE HYDRAULIC INFORMATION FOR THE SHOP DRAWINGS. THE CONTRACTOR SHALL CONDUCT A NEW FLOW TEST PRIOR TO CONSTRUCTION AND USE THE LATEST FLOW TEST FOR THEIR SHOP DRAWINGS.

LOCATION: NEAR THE MAINTENANCE FACILITY  
 FLOW: 893 GPM  
 STATIC: 58 PSI  
 RESIDUAL: 52 PSI

CONTRACTOR SHALL CONDUCT A FLOW TEST BEFORE THE START OF CONSTRUCTION. THE CONTRACTOR SHALL USE THE LATEST FLOW TEST DEMAND FOR THEIR HYDRAULIC CALCULATION TO SIZE THE FIRE SPRINKLER SYSTEM.

- SPRINKLER DESIGN REQUIRED PRESSURE (RESIDUAL) SHALL BE BASED ON A MINIMUM 10 PSI SAFETY FACTOR.
- THE WET-PIPE SYSTEM SHALL BE HYDRAULICALLY DESIGNED AND INSTALLED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:

**OFFICES, RESTROOMS, HALLWAYS, TOILETS, AND BREAK ROOMS**  
 OCCUPANCY CLASSIFICATION: LIGHT HAZARD  
 DESIGN METHOD: AREA/ DENSITY  
 SPRINKLER: QUICK RESPONSE  
 TEMP RATING: ORDINARY  
 DESIGN DENSITY: 0.1 GPM/SF  
 DESIGN AREA: 1500 SF (SPACED AT 225 SF FS COVERAGE)  
 HOSE STREAM: 150 GPM  
 DURATION: 30 MIN.  
 K-FACTOR: 5.6K MINIMUM  
 ROOM DESIGN METHOD SHALL BE ALLOWABLE PER NFPA 13

**UTILITY ROOM, LOCKER ROOM, AND STORAGE ROOM**  
 OCCUPANCY CLASSIFICATION: ORDINARY GROUP 2 HAZARD  
 DESIGN METHOD: AREA/DENSITY  
 SPRINKLER: STANDARD  
 TEMP RATING: INTERMEDIATE (200 DEGREES F)  
 DESIGN DENSITY: 0.2 GPM/SF  
 DESIGN AREA: 1500 SF (SPACED AT 130 SF FS COVERAGE)  
 HOSE STREAM: 250 GPM  
 DURATION: 60 MIN.  
 K-FACTOR: 8.0K MINIMUM

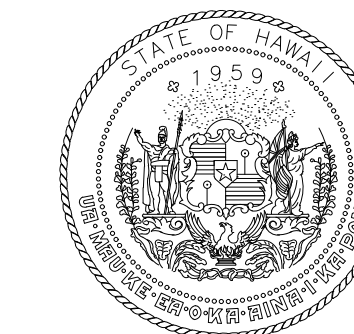
**CARPENTER SHOP, PAINT SPRAY BOOTH ROOM, GEN STORAGE, ABOVE AND BELOW MEZZANINE**  
 OCCUPANCY CLASSIFICATION: EXTRA HAZARD GROUP 2 HAZARD  
 DESIGN METHOD: AREA/DENSITY  
 SPRINKLER: STANDARD  
 TEMP RATING: INTERMEDIATE (200 DEGREES F)  
 DESIGN DENSITY: 0.4 GPM/SF  
 DESIGN AREA: 2500 SF (SPACED AT 100 SF FS COVERAGE)  
 HOSE STREAM: 500 GPM  
 DURATION: 60 MIN.  
 K-FACTOR: 8.0K MINIMUM

- PROVIDE EARTHQUAKE PROTECTION (SWAY BRACING) IN ACCORDANCE WITH NFPA 13. USE A HORIZONTAL FORCE FACTOR OF HALF THE WEIGHT OF THE WATER FILLED PIPE. PROVIDE SURGE RESTRAINT CLIPS ON ALL HANGAR RINGS. PROVIDE END OF BRANCH RESTRAINT FOR ALL BRANCH LINES OVER 4 FEET OR WHERE SUBJECT TO DAMAGE OR WHERE UPWARD OR LATERAL MOVEMENT OF THE SYSTEM PIPING WOULD RESULT IN DAMAGE TO THE SPRINKLER THROUGH IMPACT AGAINST THE BUILDING STRUCTURE, EQUIPMENT, OR FINISH MATERIALS.
- SPRINKLER PIPING SHALL BE SCHEDULE 40 BLACK STEEL  
  
ALL FIRE SPRINKLER PIPING, FITTINGS, VALVES, SUPPORTS, HANGERS SHALL BE PAINTED PRIMED AND PAINTED RED WITH ALKYD COATING TO PREVENT CORROSION.
- ALL DEVICES AND EQUIPMENT SHALL BE UL LISTED OR FM APPROVED.
- PROVIDE UL LISTED FS EXPANSION/SEISMIC JOINTS AT THE BUILDINGS EXPANSION JOINT TO ACCOMMODATE UP TO 4" OF MOVEMENT.

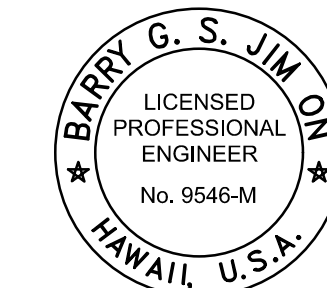
LEGEND	OCCUPANCY CLASSIFICATION	DESIGN DENSITY	DESIGN AREA	MAX. SPRINKLER SPACING	HOSE ALLOWANCE	DURATION	FS K-FACTOR
	LIGHT HAZARD: OFFICES, RESTROOMS, HALLWAYS, TOILETS, AND BREAK ROOMS	.10 GPM/SF	1500 SF	225 SF	250 GPM	60 MIN.	5.6K MIN.
	ORDINARY HAZARD: UTILITY ROOM, LOCKER ROOM, AND STORAGE ROOM	.20 GPM/SF	2500 SF	130 SF	250 GPM	60 MIN.	8.0K MIN.
	EXTRA HAZARD: CARPENTER SHOP, PAINT SPRAY BOOTH ROOM, GEN STORAGE, ABOVE AND BELOW MEZZANINE	.40 GPM/SF	2500 SF	100 SF	500 GPM	60 MIN.	8.0K MIN.

- TEMPERATURE RATINGS FOR ALL SPRINKLERS SHALL BE APPROPRIATE FOR THE LOCATION IN ACCORDANCE WITH NFPA 13. PROVIDE QUICK RESPONSE SPRINKLERS THROUGHOUT THE FACILITY UNLESS OTHERWISE NOTED. SPRINKLERS WITH O-RINGS ARE NOT PERMITTED.
- THE CONTRACTOR SHALL COMPLY WITH OSHA 29 CFR 1910.36 AND 29 CFR 1910.37.
- PROVIDE INSPECTION AND HYDROSTATIC TEST AND SUBMIT CONTRACTOR'S MATERIAL AND TEST CERTIFICATES FOR ABOVE GROUND AND UNDERGROUND PIPING IN ACCORDANCE WITH NFPA 13. PRIOR TO HYDROSTATIC TEST, THE CONTRACTOR SHALL PERFORM AN AIR PRESSURE TEST TO LOCATE ANY POTENTIAL LEAKAGE.
- PROVIDE LABELS AND VISIBLE IDENTIFICATION INDICATING LOCATION OF ALL FLOOR CONTROL VALVES, INSPECTOR'S TEST STATIONS, AND FIRE DEPARTMENT CONNECTIONS.
- COORDINATE SPRINKLER LINE ROUTING WITH CEILING HEIGHTS AND OTHER EQUIPMENT, DUCTS, AND PIPING IN THE CEILING. CONTRACTOR SHALL FOLLOW THE PROPOSED MAIN ROUTING AS MUCH AS POSSIBLE.
- ALL WATER FLOW SWITCHES AND CONTROL VALVES SHALL BE ELECTRICALLY SUPERVISED BY THE FIRE ALARM PANEL.
- LOCATE FS HEADS PER NFPA 13 TO AVOID ANY OBSTRUCTIONS. COORDINATE WITH SOFFIT, LIGHT FIXTURE, AND DUCTWORK LOCATIONS.
- ALL FIRE SPRINKLER PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED AREAS WHERE THERE ARE NO CEILING SPACES. ANY PROPOSED EXPOSED PIPING SHALL BE CLEARLY NOTED ON THE SHOP DRAWINGS AND APPROVED BY THE ENGINEER AND THE ARCHITECT PRIOR TO INSTALLATION.
- PROVIDE INSPECTIONS AND HYDROSTATIC TESTS IN ACCORDANCE WITH NFPA 13. PRIOR TO HYDROSTATIC TEST, CONTRACTOR SHALL PERFORM AN AIR PRESSURE TEST TO LOCATE POTENTIAL LEAKAGE POINTS.
- ALL SPRINKLER CONTROL VALVES SHALL BE MONITORED BY TAMPER SWITCHES. COORDINATE INTERFACE WITH FIRE ALARM SYSTEM WITH THE FIRE ALARM CONTRACTOR.
- ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS AND WATER FLOW SWITCHES ON ALL SPRINKLER SYSTEMS SHALL BE ELECTRONICALLY MONITORED WHERE THE NUMBERS OF SPRINKLERS ARE:  
 1) TWENTY OR MORE IN A GROUP I, DIVISIONS 1.1 AND 1.2 OCCUPANCIES.  
 2) ONE HUNDRED OR MORE IN ALL OTHER OCCUPANCIES.
- VALVE MONITORING AND WATER FLOW ALARM AND TROUBLE SIGNALS SHALL BE DISTINCTLY DIFFERENT AND SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED CENTRAL STATION, REMOTE STATION OR PROPRIETARY MONITORING STATION AS DEFINED BY UFC STANDARD 10-2 OR, WHEN APPROVED BY THE BUILDING OFFICIAL WITH THE CONCURRENCE OF THE CHIEF, SHALL SOUND AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION. VALVE MONITORING, WATER FLOW AND TROUBLE SIGNALS SHALL BE MONITORED ON THE ISLAND OF OAHU. EXCEPTION: UNDERGROUND KEY OR HUB VALVES IN ROADWAY BOXES PROVIDED BY THE MUNICIPALITY OR PUBLIC UTILITY NEED NOT BE MONITORED. 2012 UFC, SECTION 1003.3.1 AS AMENDED.
- SPARE SPRINKLER HEADS SHALL BE PROVIDED AND STORED IN A CABINET IN A LOCATION APPROVED BY THE CHIEF AS FOLLOWS:  
 1) 1-300 SPRINKLERS 06 HEADS  
 2) 301-1000 SPRINKLERS 12 HEADS  
 3) OVER 100 SPRINKLERS 24 HEADS  
 IN ADDITION, THREE SPRINKLER STOPPERS AND A SPECIAL SPRINKLER WRENCH SHALL BE PROVIDED AND KEPT IN THE CABINET TO BE USED IN THE REMOVAL AND INSTALLATION OF SPRINKLER HEADS. 2012 UFC, SECTION 1003.1.1 AS AMENDED.
- FLEXIBLE FIRE SPRINKLER DROPS SHALL NOT BE ALLOWED FOR THIS PROJECT.
- ALL FIRE SPRINKLER HEADS SHALL BE ELECTROLESS NICKEL PTFE (ENT) FINISH.
- ACTIVATION OF WATER FLOW SWITCH SHALL SHUT OFF THE HIGH VOLUME FANS IN THE MEZZANINE AND GENERAL STORAGE ROOMS.
- THE PAINT ROOM SHALL BE EQUIPPED WITH FIRE SPRINKLER CAGE GUARDS AND PROTECTIVE CELLOPHANE BAGS HAVING A THICKNESS OF 0.0003 IN. (0.08mm) OR LESS SHALL BE USED. CONTRACTOR SHALL ALSO PROVIDE 50 SPARE BAGS.

SYMBOL	ABBRV.	DESCRIPTION
	FS	FLOW SWITCH
	GV	GATE VALVE
	OS&Y	OUTSIDE STEM AND YOKE
	-	INDICATING BUTTERFLY VALVE
	POC	POINT OF CONNECTION
	POR	POINT OF REMOVAL
	TS	TAMPER SWITCH
		WET-PIPE FS RISER/STANDPIPE RISER
	TYP.	TYPICAL
	FDC	FIRE DEPARTMENT CONNECTION
		FIRE SPRINKLER HEAD - PENDANT
		FIRE SPRINKLER HEAD - UPRIGHT



Airports Division  
 DEPARTMENT OF TRANSPORTATION  
 STATE OF HAWAII



EXP. 4/30/2024

This work was prepared by me or under my supervision.

DSGN.	DRWN.	CHKD.	APPD.

NO.	DATE	REVISIONS

DATE

**PROJECT TITLE :**

**CONVERT CARGO BUILDING TO WORKSHOP**

AT DANIEL K. INOUE INTERNATIONAL AIRPORT  
 HONOLULU, OAHU, HAWAII

**PROJECT NO.:**

**CO1325-33**

**SHEET TITLE:**

**FIRE SPRINKLER NOTES AND LEGEND**

DATE :	DWG. NO.
05/10/23	F001
SHEET :	
53 OF 84 SHEETS	

**FIRE ALARM GENERAL NOTES:**

- THE FIRE ALARM SYSTEM DEMOLITION AND INSTALLATION SHALL COMPLY WITH ALL APPLICABLE CODES AND STANDARDS WITH STATE OF HAWAII AMENDMENTS INCLUDING, BUT NOT LIMITED TO:
  - 2018 INTERNATIONAL BUILDING CODE (IBC)
  - 2018 NFPA 1: FIRE CODE (NFPA 1)
  - 2017 NFPA 70: NATIONAL ELECTRICAL CODE (NEC)
  - 2016 NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE (NFPA 72)
  - 2010 AMERICANS WITH DISABILITIES ACT (ADA)
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER THE COMPLETE INSTALLATION OF SYSTEMS TO FUNCTION AS DESCRIBED AND SPECIFIED. THE OMISSION OF REFERENCE TO ANY NECESSARY ITEM OF LABOR OR MATERIAL SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH LABOR AND MATERIAL.
- ALL EQUIPMENT SHALL BE CAPABLE OF FITTING INTO THE SPACES ALLOCATED WHILE MEETING THE MANUFACTURER'S RECOMMENDED ACCESS REQUIREMENTS. REVIEW ALL SPACES WHERE EQUIPMENT IS TO BE INSTALLED PRIOR TO ORDERING OF EQUIPMENT AND NOTIFY THE ENGINEER OF ANY INADEQUATE CLEARANCES OR CONDITIONS THAT WILL PREVENT THE PROPER INSTALLATION, MAINTENANCE, AND OPERATION OF THE EQUIPMENT.
- PROVIDE SHOP DRAWINGS FOR THE LAYOUT OF THE FIRE ALARM SYSTEMS SHOWING COORDINATION OF ALL WORK WITH ALL OTHER TRADES INCLUDING, BUT NOT LIMITED TO: PLUMBING, HVAC, CONTROLS, ELECTRICAL, COMMUNICATION, AND OTHER FIRE PROTECTION SYSTEMS. COORDINATION DRAWINGS SHALL OVERLAY HVAC, PLUMBING, FIRE SPRINKLER, ELECTRICAL AND FIRE ALARM SYSTEMS, AND ALL CONFLICTS BETWEEN TRADES SHALL BE NOTED AND RESOLVED.
- VERIFY AND COORDINATE ALL ROOF, WALL AND FLOOR PENETRATIONS WITH THE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO START OF CONSTRUCTION.
- OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER BEFORE MAKING ANY PENETRATIONS THROUGH STRUCTURAL MEMBERS, WALLS AND SLABS.
- TONE AND LOCATE ALL UTILITY LINES OR OTHER INTERFERENCES IN AREAS OF PROPOSED TRENCH WORK PRIOR TO START OF EXCAVATION. REPAIR OR PAY FOR ALL DAMAGES TO EXISTING UTILITIES.
- DRAWINGS DO NOT ATTEMPT TO SHOW EXACT DETAILS OF CONDUIT ROUTING. PROVIDE OFFSETS AS NECESSARY TO AVOID LOCAL OBSTRUCTIONS OR INTERFERENCE WITH OTHER TRADES. REVIEW ALL PIPING AND DUCT RUNS PRIOR TO FABRICATION AND IMMEDIATELY NOTIFY THE GENERAL CONTRACTOR OF ANY INTERFERENCE AND/OR LACK OF ADEQUATE CLEARANCES.
- SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF WORK, MARK SUCH CHANGES ON THE AS-BUILT DRAWINGS AND NOTIFY THE ENGINEER. IF THESE CHANGES REQUIRE ALTERNATE METHODS TO THOSE APPROVED BY THE CONTRACT DOCUMENTS, SUBMIT SHOP DRAWINGS SHOWING THE PROPOSED ALTERNATE METHODS TO THE ENGINEER FOR REVIEW. DO NOT PROCEED UNTIL REVIEWED.
- REPAIR ANY DAMAGE TO EXISTING CONSTRUCTION RESULTING FROM THE INSTALLATION OF ELECTRICAL ITEMS. THE AREAS REPAIRED SHALL MATCH THE ADJACENT SURFACES IN TEXTURE AND COLOR.
- PROPERLY FIRE STOP ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, OR PARTITIONS WITH A U.L. APPROVED SYSTEM APPROPRIATE FOR THE PENETRATION TYPE AND FIRE RATING IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- TWO SETS (2) OF COMPLETE WORKING PLANS AND VOLTAGE LOAD AND BATTERY CALCULATIONS STAMPED AND SIGNED BY A HAWAII LICENSED ELECTRICAL ENGINEER SHALL BE SUBMITTED, AS APPLICABLE, TO THE FIRE PROTECTION SPECIAL INSPECTOR (FPSI) FOR CODE COMPLIANCE REVIEW. ONE (1) SET WITH THE FPSI APPROVAL STAMP SHALL BE SUBMITTED TO THE DPP BUILDING DIVISION ALONG WITH THE FPSI FINAL REPORT/LETTER PRIOR TO CLOSING OF THE BUILDING PERMIT.
- WEATHERPROOF-TYPE DEVICES SHALL BE PROVIDED IN WET LOCATIONS AND WHERE INDICATED ON THE DRAWINGS.
- COORDINATE WITH THE FIRE SPRINKLER CONTRACTOR TO PROVIDE THE LOCATION AND AMOUNT OF FIRE ALARM DEVICES FOR THE FIRE SPRINKLER AND STANDPIPE SYSTEMS. ALL SYSTEM WATER SUPPLY VALVES AND CONTROL VALVES SHALL BE ELECTRONICALLY SUPERVISED.
- SMOKE DETECTORS SMOKE ALARMS SHALL BE INSTALLED AT LEAST 5 FEET FROM SUPPLY AIR DIFFUSERS AND AIR CONDITIONING UNITS.
- THE FIRE ALARM SYSTEM SHALL BE TIED INTO THE PHONE SYSTEM USING AN AUTODIALER OR 3RD PARTY SECURITY SYSTEM TO MONITOR THE FIRE ALARM SYSTEM 24/7. ACTIVATION OF THE FIRE ALARM SYSTEM SHALL SEND SIGNAL TO THE SECURITY SYSTEM.

**ELECTRICAL GENERAL NOTES:**

- WORK INCLUDES INSTALLATION OF ALL ELECTRICAL SYSTEMS COMPLETE AND OPERATIONAL AS LIMITED BY THE INTENT OF THE CONTRACT DOCUMENTS.
- PERFORM ELECTRICAL WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70), NATIONAL ELECTRICAL SAFETY CODE, AND ALL LOCAL RULES AND REGULATIONS.
- OBTAIN ALL NECESSARY PERMITS AS REQUIRED.

- PROVIDE THREADED TYPE FITTINGS FOR GALVANIZED CONDUITS. ALL CONDUITS INSTALLED SHALL BE GALVANIZED TYPE AND THE FITTINGS, JUNCTION BOXES INSTALLED IN THE BUILDING SHALL BE WATER TIGHT.
- SIZE ALL CONDUIT PER THE NEC REQUIREMENTS UNLESS NOTED OTHERWISE.
- PROVIDE SOLID COPPER, 600 VOLT INSULATION TYPE THHN, THWN POWER CONDUCTORS.
- PROVIDE AN INSULATED GREEN GROUNDING CONDUCTOR, SIZED PER NEC TABLE 250-122, FOR ALL CIRCUITS. INSTALL THIS CONDUCTOR IN ALL RACEWAYS INCLUDING THOSE INSTALLED FOR SWITCH LEGS AND ATTACH TO THE DEVICE, LUMINAIRE, OR EQUIPMENT USING A SUITABLE GROUNDING LUG.
- PROVIDE AND INSTALL ALL JUNCTION AND PULLBOXES REQUIRED FOR THE INSTALLATION OF ELECTRICAL DEVICES AND EQUIPMENT, WHETHER OR NOT SPECIFICALLY INDICATED ON THE PLANS. SIZE BOXES PER THE NEC.
- SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS AND SLABS USING A U.L. LISTED FIRE RATED SEALANT TO MAINTAIN THE INTEGRITY OF THE FIRE RATED CONSTRUCTION PENETRATED.
- SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF WORK, INDICATE SUCH CHANGES ON THE AS-BUILT DRAWINGS.
- SUBMIT SHOP DRAWINGS TO THE CONTRACTING OFFICER FOR ALL LUMINAIRES, EQUIPMENT AND DEVICES COVERED BY THIS CONTRACT FOR APPROVAL PRIOR TO ORDERING.
- THE MINIMUM CONDUIT SIZE IS 3/4 INCH FOR INTERIOR ABOVE GRADE USE AND 1" FOR EXTERIOR UNDERGROUND USE. ACCEPTABLE CONDUITS FOR INTERIOR USE ARE EMT WITH COMPRESSION FITTINGS, GRS, IMC, LIQUID TIGHT FLEXIBLE METAL AND FLEXIBLE METAL CONDUITS. ACCEPTABLE CONDUITS FOR EXTERIOR USE ARE PVC SCH40, PVC SCH80, GRS, IMC.
- TONE AND LOCATE ALL UTILITY LINES WITHIN THE PROJECT AREA PRIOR TO START OF EXCAVATION. REPAIR OR PAY FOR ALL DAMAGES TO EXISTING UTILITIES.
- AFTER INSTALLATION OF CABLES, CONDUITS SHALL BE SEALED WITH CAULKING COMPOUND TO PREVENT ENTRANCE OF MOISTURE OR GASES INTO BUILDINGS.
- SURFACE MOUNT PANELS IN ELECTRICAL AND MECHANICAL ROOMS. FINISH MOUNT PANELS IN ALL PUBLIC SPACES.

**FIRE ALARM SYSTEM NOTES**

- THE EXISTING FIRE ALARM SYSTEM WITHIN THE BUILDING SHALL BE REMOVED AND REPLACED WITH A NEW FIRE ALARM SYSTEM WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVACS) DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 72, NEC, AND THE SPECIFICATIONS. ALL DEVICES AND EQUIPMENT SHALL BE U.L. LISTED OR FM APPROVED.
- THE NEW BUILDING FIRE ALARM SYSTEM WILL BE INTERFACED WITH THE EXISTING CAMPUS FIRE ALARM SYSTEM. ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM WILL ACTIVATE THE CAMPUS FIRE ALARM SYSTEM.
- THE FIRE ALARM DESIGN SHOWN IS **CONCEPTUAL**. THE EQUIPMENT IS SHOWN IN SUGGESTED LOCATIONS. FINAL QUANTITY AND LAYOUT SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURE'S RECOMMENDATIONS, AND EQUIPMENT LISTING. SHOP DRAWINGS SUBMITTALS SHALL INCLUDE FIRE ALARM DETAILS IN ACCORDANCE WITH NFPA 72, NEC AND THE MANUFACTURER'S EQUIPMENT LISTING INSTALLATION REQUIREMENTS.
- AUDIBLE AND VISIBLE NOTIFICATION SHALL COMPLY WITH ALL APPLICABLE NFPA 72, A117.1, AND ADA REQUIREMENTS.

**AUDIBLE NOTIFICATION REQUIREMENTS**

- WALL-MOUNTED AUDIBLE NOTIFICATION APPLIANCES SHALL BE INSTALLED WITH THEIR TOPS NOT LESS THAN 90 INCHES ABOVE THE FINISHED FLOOR AND NOT LESS THAN 6 INCHES BELOW THE FINISHED CEILING.
- IF ANY BARRIER, SUCH AS A DOOR, CURTAIN, OR RETRACTABLE PARTITION, IS LOCATED BETWEEN THE NOTIFICATION APPLIANCE AND THE AREA SERVED, THE SOUND PRESSURE LEVEL SHALL BE MEASURED WITH THE BARRIER IN PLACE.
- AUDIBLE NOTIFICATION IN PUBLIC AREAS SHALL BE AT LEAST 15dB ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5dB ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION AT LEAST 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5 FEET ABOVE THE FLOOR OF THE AREA SERVED.
- AUDIBLE NOTIFICATION IN SLEEPING AREAS SHALL BE AT LEAST 15 DB ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 dB ABOVE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS, OR A SOUND LEVEL OF AT LEAST 75 dB, WHICHEVER IS GREATER, MEASURED AT THE PILLOW LEVEL OF THE AREA SERVED.
- IN AREAS WHERE THE AVERAGE AMBIENT SOUND LEVELS EXCEED 105 dBA, VISIBLE NOTIFICATION SHALL BE PERMITTED.
- AUDIBLE NOTIFICATION APPLIANCES INSTALLED IN DWELLING AND SLEEPING AREAS SHALL PRODUCE A 520 HZ LOW-FREQUENCY ALERT TONE.

**VISIBLE NOTIFICATION REQUIREMENTS**

- WALL-MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 IN. AND NOT GREATER THAN 96 IN. ABOVE THE FINISHED FLOOR.
- WHERE TWO OR MORE VISIBLE NOTIFICATION APPLIANCES ARE INSTALLED IN THE SAME FIELD OF VIEW, THE FLASHES SHALL BE SYNCHRONIZED.

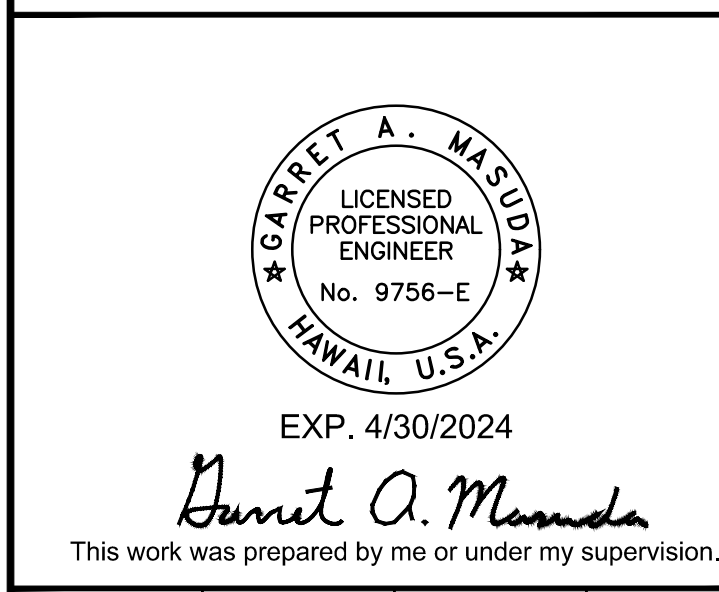
**MANUAL FIRE ALARM BOXES**

- A MANUAL FIRE ALARM BOX SHALL BE PROVIDED ON EVERY LEVEL WITHIN 5 FEET OF THE OPENING TO EACH EXIT, UNLESS OTHERWISE APPROVED BY THE AHJ.
- WHERE GROUPED OPENINGS EXCEED 40 FEET IN WIDTH, MANUAL FIRE ALARM BOXES SHALL BE PROVIDED WITHIN 5 FEET OF EACH SIDE OF THE OPENING.
- ADDITIONAL MANUAL FIRE ALARM BOXES SHALL BE LOCATED SO THAT, ON ANY GIVEN FLOOR IN ANY PART OF THE BUILDING, NO HORIZONTAL DISTANCE ON THAT FLOOR EXCEEDING 200 FEET SHALL NEED TO BE TRAVERSED TO REACH A MANUAL FIRE ALARM BOX.
- EACH MANUAL FIRE ALARM BOX ON A SYSTEM SHALL BE ACCESSIBLE, UNOBSTRUCTED, AND VISIBLE.
- THE OPERABLE PART OF EACH MANUAL FIRE ALARM BOX SHALL BE NOT LESS THAN 42 INCHES AND NOT MORE THAN 48 INCHES ABOVE FLOOR LEVEL.

**AUTOMATIC SMOKE DETECTION**

- AUTOMATIC SMOKE DETECTION SHALL BE PROVIDED IN EACH MECHANICAL EQUIPMENT, ELECTRICAL, TRANSFORMER, TELEPHONE EQUIPMENT, OR SIMILAR ROOM WHICH IS NOT PROVIDED WITH AUTOMATIC SPRINKLER PROTECTION.
- SMOKE DETECTORS SHALL BE INSTALLED AT EACH ELEVATOR LOBBY AND INSIDE EACH ELEVATOR MACHINE ROOM, WHERE PROVIDED.
- DUCT SMOKE DETECTORS SHALL BE PROVIDED ON HVAC SYSTEMS WITH A CAPACITY GREATER THAN 2,000 CFM AND INSTALLED DOWNSTREAM ON THE LAST DUCT INLET.
- SMOKE DETECTORS SHALL BE INSTALLED WHERE REQUIRED TO INITIATE AUTOMATIC CLOSING OR RELEASE OF HOLD-OPEN DEVICES ON DOORS IN SMOKE-RATED AND FIRE-RATED CONSTRUCTION.
- SMOKE DETECTORS SHALL BE INSTALLED WHERE REQUIRED TO INITIATE AUTOMATIC CLOSING OF SMOKE AND FIRE/SMOKE DAMPERS.
- UNLESS CONTINUOUSLY OCCUPIED, AUTOMATIC SMOKE DETECTION SHALL BE PROVIDED AT THE LOCATION OF EACH FIRE ALARM CONTROL UNIT, NOTIFICATION APPLIANCE CIRCUIT POWER EXTENDERS, AND SUPERVISING STATION TRANSMITTING EQUIPMENT. WHERE AMBIENT CONDITIONS PROHIBIT INSTALLATION OF AUTOMATIC SMOKE DETECTION, AUTOMATIC HEAT DETECTION SHALL BE PERMITTED.

FIRE ALARM LEGEND	
SYMBOL	DESCRIPTION
	ADDRESSABLE SMOKE DETECTOR
	ADDRESSABLE IN-DUCT SMOKE DETECTOR
	ADDRESSABLE CARBON MONOXIDE DETECTOR
	ADDRESSABLE SPEAKER
	ADDRESSABLE SPEAKER-STROBE
	MANUAL PULL STATION
	MANUAL PULL STATION SIGNAGE, MOUNTED 88" AFF
	ADDRESSABLE MONITOR MODULE
	ADDRESSABLE CONTROL MODULE
	MAGNETIC DOOR HOLD-OPEN DEVICE
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	REMOTE POWER SUPPLY
	SPRINKLER WATERFLOW SWITCH
	SPRINKLER VALVE SUPERVISORY (TAMPER) SWITCH
LF	LOW-FREQUENCY (520 HZ) ALERT TONE
C	CEILING MOUNTED
WP	WEATHER-PROOF



DSGN.	DRWN.	CHKD.	APPD.

NO.	DATE	REVISIONS

DATE \_\_\_\_\_

**PROJECT TITLE :**

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

**PROJECT NO.:**

**CO1325-33**

**SHEET TITLE:**

**FIRE ALARM NOTES AND LEGEND**

DATE :	DWG. NO.
05/10/23	F002
SHEET :	
54 OF 84 SHEETS	

FIRE DEPARTMENT NOTES:

FIRE SAFETY NOTE

- STRUCTURES UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION OPERATIONS, INCLUDING THOSE IN UNDERGROUND LOCATIONS, SHALL COMPLY WITH NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS, AND THIS CHAPTER, 2012 NFPA 1.

FIRE SAFETY DURING ALTERATION

- 16.4.4.1 WHERE THE BUILDING IS PROTECTED BY FIRE PROTECTION SYSTEMS, SUCH SYSTEMS SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES DURING ALTERATION.
- 16.4.4.2 WHERE ALTERATION REQUIRES MODIFICATION OF A PORTION OF THE FIRE PROTECTION SYSTEM, THE REMAINDER OF THE SYSTEM SHALL BE KEPT IN SERVICE AND THE FIRE DEPARTMENT SHALL BE NOTIFIED.
- 16.4.4.3 WHEN IT IS NECESSARY TO SHUT DOWN THE SYSTEM, THE AHJ SHALL HAVE THE AUTHORITY TO REQUIRE ALTERNATE MEASURES OF PROTECTION UNTIL THE SYSTEM IS RETURNED TO SERVICE.
- 10.8.1.1 AS NECESSARY DURING EMERGENCIES, MAINTENANCE, DRILLS, PRESCRIBED TESTING, ALTERATIONS, OR RENOVATIONS, PORTABLE OR FIXED FIRE-EXTINGUISHING SYSTEMS OR DEVICES OR ANY FIRE-WARNING SYSTEM SHALL BE PERMITTED TO BE MADE INOPERATIVE OR INACCESSIBLE. A FIRE WATCH SHALL BE REQUIRED AS SPECIFIED IN SECTIONS 13.3.4.3.5.2(3), 13.7.1.4.4, 16.5.4, 20.2.3.6, 34.6.3.3, 41.2.2.5, 41.2.2.6, 41.2.4, 41.3.4, 41.4.1, 34.5.4.3, AND 25.1.8 AT NO COST TO THE AHJ. NFPA 1 2012, AS AMENDED.

AHJ APPROVAL

- 13.1.1 THE AHJ SHALL HAVE THE AUTHORITY TO REQUIRE THAT CONSTRUCTION DOCUMENTS FOR ALL FIRE PROTECTION SYSTEMS BE SUBMITTED FOR REVIEW AND APPROVAL AND A PERMIT BE ISSUED PRIOR TO THE INSTALLATION, REHABILITATION, OR MODIFICATION. FURTHER, THE AHJ SHALL HAVE THE AUTHORITY TO REQUIRE THAT FULL ACCEPTANCE TESTS OF THE SYSTEMS BE PERFORMED IN THE AHJ'S PRESENCE PRIOR TO REQUIRE THAT FULL ACCEPTANCE TESTS OF THE SYSTEMS BE PERFORMED IN THE AHJ'S PRESENCE PRIOR TO FINAL SYSTEM CERTIFICATION.
- FIRE ALARM SYSTEMS; FIRE HYDRANT SYSTEMS; FIRE-EXTINGUISHING SYSTEMS; STANDPIPES; AND OTHER FIRE-PROTECTION SYSTEMS AND APPURTENANCES REQUIRED BY THIS CODE SHALL BE APPROVED BY THE AHJ AS TO INSTALLATION AND LOCATION AND SHALL BE SUBJECT TO ACCEPTANCE TESTS REQUIRED BY THE APPROPRIATE COUNTY AGENCY. NFPA 1, CHAPTER 13 AS AMENDED.

13.7.3.2.1 APPROVAL AND ACCEPTANCE.

- 13.7.3.2.1.2 BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, IF REQUIRED BY THE AHJ, THE INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT STATING THAT THE SYSTEM HAS BEEN INSTALLED IN ACCORDANCE WITH APPROVED PLANS AND TESTED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND THE APPROPRIATE NFPA REQUIREMENTS. [72:4.5.1.2] 13.7.3.2.1.3\* THE RECORD OF COMPLETION FORM, FIGURE 4.5.2.1 OF NFPA 72, SHALL BE PERMITTED TO BE A PART OF THE WRITTEN STATEMENT REQUIRED IN 13.7.3.2.1.2. WHEN MORE THAN ONE CONTRACTOR HAS BEEN RESPONSIBLE FOR THE INSTALLATION, EACH CONTRACTOR SHALL COMPLETE THE PORTIONS OF THE FORM FOR WHICH THAT CONTRACTOR HAD RESPONSIBILITY.
- 13.7.3.2.1.4 THE RECORD OF COMPLETION FORM, FIGURE 4.5.2.1 OF NFPA 72, SHALL BE PERMITTED TO BE A PART OF THE DOCUMENTS THAT SUPPORT THE REQUIREMENTS OF 13.7.3.2.1.3. 2012 NFPA 1.
- ENSURE AUDIBILITY IS MET THROUGH ALL OCCUPIABLE AREAS AND SPACES. THIS WILL BE THOROUGHLY CHECKED AT TIME OF THE ALARM ACCEPTANCE TEST.

FIRE DEPARTMENT NOTES CONTINUED:

ACCESS AND WATER SUPPLY

- 16.4.3.1.3- WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED, AND IN SERVICE PRIOR TO CONSTRUCTION. NFPA 1, CHAPTER 16.16.1.4 FIRE DEPARTMENT ACCESS ROADS PROVIDED IN ACCORDANCE WITH 18.2.3 SHALL BE PROVIDED AT THE START OF A PROJECT AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

- 16.1.5 PERMANENT FIRE DEPARTMENT ACCESS ROAD MARKINGS SHALL NOT BE REQUIRED UNTIL THE BUILDING IS COMPLETE OR OCCUPIED FOR USE.

18.2.3.2 ACCESS TO BUILDING.

- 18.2.3.2.1 A FIRE DEPARTMENT ACCESS ROAD SHALL EXTEND TO WITHIN 50 FT (15 M) OF AT LEAST ONE EXTERIOR DOOR THAT CAN BE OPENED FROM THE OUTSIDE AND THAT PROVIDES ACCESS TO THE INTERIOR OF THE BUILDING.

- 18.2.3.2.2 PROVIDE A FIRE APPARATUS ACCESS ROAD FOR EVERY FACILITY, BUILDING, OR PORTION OF A BUILDING HEREAFTER CONSTRUCTED OR MOVED INTO OR WITHIN THE JURISDICTION WHEN ANY PORTION OF THE FACILITY OR ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY OF THE BUILDING IS LOCATED MORE THAN 150 FEET (45 720 MM) FROM A FIRE APPARATUS ACCESS ROAD AS MEASURED BY AN APPROVED ROUTE AROUND THE EXTERIOR OF THE BUILDING OR FACILITY. (2012 NFPA 1, SECTION 18.2.3.2.2)

- 18.2.3.2.2.1- WHEN BUILDINGS ARE PROTECTED THROUGHOUT WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM THAT IS INSTALLED IN ACCORDANCE WITH NFPA 13, NFPA 13D, OR NFPA 13R, THE DISTANCE IN 18.2.3.2.2 SHALL BE PERMITTED TO BE INCREASED TO 450FT.

- 18.2.3.4.1.1- FIRE ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN 20FT. AND AN UNOBSTRUCTED VERTICAL CLEARANCE OF 13 FT. 6 IN. NFPA 1, CHAPTER 18.

- 18.2.3.4.2 SURFACE. FIRE DEPARTMENT ACCESS ROADS SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS AND SHALL BE PROVIDED WITH AN ALL-WEATHER DRIVING SURFACE.

- 18.2.3.4.3.1 THE TURNING RADIUS OF A FIRE APPARATUS ACCESS ROAD SHALL MEET COUNTY REQUIREMENTS.

- 18.2.3.4.3.2 TURNS IN FIRE DEPARTMENT ACCESS ROADS SHALL MAINTAIN THE MINIMUM ROAD WIDTH. A FIRE DEPARTMENT ACCESS ROAD SHALL EXTEND TO WITHIN 50 FT (15 M) OF AT LEAST ONE EXTERIOR DOOR THAT CAN BE OPENED FROM THE OUTSIDE AND THAT PROVIDES ACCESS TO THE INTERIOR OF THE BUILDING (2012 NFPA 1, SECTION 18.2.3.2.1)

- PROVIDE A WATER SUPPLY, APPROVED BY THE COUNTY, CAPABLE OF SUPPLYING THE REQUIRED FIRE FLOW FOR FIRE PROTECTION TO ALL PREMISES UPON WHICH FACILITIES OR BUILDINGS, OR PORTIONS THEREOF, ARE HEREAFTER CONSTRUCTED OR MOVED INTO OR WITHIN THE COUNTY.

- ON-SITE FIRE HYDRANTS AND MAINS CAPABLE OF SUPPLYING THE REQUIRED FIRE FLOW SHALL BE PROVIDED WHEN ANY PORTION OF THE FACILITY OR BUILDING IS IN EXCESS OF 150 FEET (45 720 MM) FROM A WATER SUPPLY ON A FIRE APPARATUS ACCESS ROAD, AS MEASURED BY AN APPROVED ROUTE AROUND THE EXTERIOR OF THE FACILITY OR BUILDING. (2012 NFPA 1, SECTION 18.3.1, AS AMENDED).

- FIRE DEPARTMENT HOSE CONNECTIONS SHALL BE LOCATED WITHIN 20 FEET OF A FIRE APPARATUS ACCESS ROAD, NOT LESS THAN 18 INCHES AND NOT MORE THAN 4 FEET ABOVE GRADE, OR AS APPROVED BY THE AHJ. APPROPRIATE IDENTIFICATION SIGNS SHALL BE PROVIDED AS REQUIRED BY THE AHJ. SECTION 13.2.2.2 AND 13.3.1.2.1 OF NFPA 1 2012, AS AMENDED.

1.14 PLAN REVIEW

- 1.14.4 REVIEW AND APPROVAL BY THE AHJ SHALL NOT RELIEVE THE APPLICANT OF THE RESPONSIBILITY OF COMPLIANCE WITH THIS CODE.

FIRE DEPARTMENT NOTES

DETECTION, ALARM, AND COMMUNICATION SYSTEMS

- 13.7.1.1 WHERE BUILDING FIRE ALARM SYSTEMS OR AUTOMATIC FIRE DETECTORS ARE REQUIRED BY OTHER SECTIONS OF THIS CODE, THEY SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH NFPA 70, NFPA 72, NATIONAL FIRE ALARM CODE, AND SECTION 13.7. 2012 NFPA 1. FIRE ALARM SYSTEM INSTALLATION AND MAINTENANCE SHALL BE IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM CODE, AND 2012 NFPA 1

AUDIBILITY

- 13.7.1.4.10.8 AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL PRODUCE SIGNALS THAT ARE DISTINCTIVE FROM AUDIBLE SIGNALS USED FOR OTHER PURPOSES IN A GIVEN BUILDING. [101:9.6.3.8] ENSURE AUDIBILITY IS MET THROUGH ALL OCCUPIABLE AREAS AND SPACES. THIS WILL BE THOROUGHLY CHECKED AT TIME OF THE ALARM

TAG

- 13.7.3.2.5 A TAG SHALL BE PLACED ON THE FIRE ALARM PANEL WHEN TESTED IN ACCORDANCE WITH SECTION 13.7.3.2. INFORMATION ON THE TAG SHALL INCLUDE THE DATE OF TESTING, TESTING COMPANY, AND CONTACT INFORMATION, TECHNICIAN PERFORMING THE TEST, AND THAT THE TEST WAS SATISFACTORY. NFPA 1, CHAPTER 13 AS AMENDED.

- 13.7.3.2.1 APPROVAL AND ACCEPTANCE. 13.7.3.2.1.1 THE AHJ SHALL BE NOTIFIED PRIOR TO INSTALLATION OR ALTERATION OF EQUIPMENT OR WIRING.

- 13.7.3.2.1.2 AT THE AHJ'S REQUEST, COMPLETE INFORMATION REGARDING THE SYSTEM OR SYSTEM ALTERATIONS, INCLUDING SPECIFICATIONS, TYPE OF SYSTEM OR SERVICE, SHOP DRAWINGS, INPUT/OUTPUT MATRIX, BATTERY CALCULATIONS, AND NOTIFICATION APPLIANCE CIRCUIT VOLTAGE DROP CALCULATIONS, SHALL BE SUBMITTED FOR APPROVAL.

- 13.7.3.2.1.3 BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, IF REQUIRED BY THE AHJ, THE INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT STATING THAT THE SYSTEM HAS BEEN INSTALLED IN ACCORDANCE WITH APPROVED PLANS AND TESTED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND THE APPROPRIATE NFPA REQUIREMENTS. [72:10.18.1.3]

- 13.7.3.2.1.4\* THE RECORD OF COMPLETION FORM, FIGURE 10.18.2.1.1 OF NFPA 72, SHALL BE PERMITTED TO BE A PART OF THE WRITTEN STATEMENT REQUIRED IN 13.7.3.2.1.3. WHEN MORE THAN ONE CONTRACTOR HAS BEEN RESPONSIBLE FOR THE INSTALLATION, EACH CONTRACTOR SHALL COMPLETE THE PORTIONS OF THE FORM FOR WHICH THAT CONTRACTOR HAD RESPONSIBILITY. [72:10.18.1.4]

- 13.7.3.2.1.5 THE RECORD OF COMPLETION FORM, FIGURE 10.18.2.1.1 OF NFPA 72, SHALL BE PERMITTED TO BE A PART OF THE DOCUMENTS THAT SUPPORT THE REQUIREMENTS OF 13.7.3.2.2.4.[72:10.18.1.5].

NOTIFICATION DEVICES

- 13.7.1.4.10.5 UNLESS OTHERWISE PROVIDED IN 13.7.1.4.10.5.1 THROUGH 13.7.1.4.10.5.8, NOTIFICATION SIGNALS FOR OCCUPANTS TO EVACUATE SHALL BE AUDIBLE AND VISIBLE SIGNALS IN ACCORDANCE WITH NFPA 72 AND ICC/ANSI A117.1. AMERICAN STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, OR OTHER MEANS OF NOTIFICATION ACCEPTABLE TO THE AHJ SHALL BE PROVIDED. [101:9.6.3.5]

MANUAL FIRE ALARM BOXES

- 13.7.1.4.8.3 A MANUAL FIRE ALARM BOX SHALL BE PROVIDED AS FOLLOWS, UNLESS MODIFIED BY ANOTHER SECTION OF THIS CODE:

- (1)FOR NEW ALARM SYSTEM INSTALLATIONS, THE MANUAL FIRE ALARM BOX SHALL BE LOCATED WITHIN 5FT (1.5 M) OF EXIT DOORWAYS.

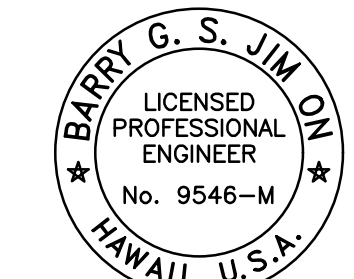
- (2)FOR EXISTING ALARM SYSTEM INSTALLATIONS, THE MANUAL FIRE ALARM BOX EITHER SHALL BE PROVIDED IN THE NATURAL EXIT ACCESS PATH NEAR EACH REQUIRED EXIT OR WITHIN 5 FT (1.5 M) OF EXIT DOORWAYS.

APPROVAL AND ACCEPTANCE

- BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, IF REQUIRED BY THE AHJ, THE INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT STATING THAT THE SYSTEM HAS BEEN INSTALLED IN ACCORDANCE WITH APPROVED PLANS AND TESTED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND APPLICABLE CODE REQUIREMENTS.
- THE RECORD OF COMPLETION FORM (NFPA 72 FIGURE 4.5.2.1) SHALL BE PERMITTED TO BE A PART OF THE WRITTEN STATEMENT. WHEN MORE THAN ONE CONTRACTOR HAS BEEN RESPONSIBLE FOR THE INSTALLATION, EACH CONTRACTOR SHALL COMPLETE THE PORTIONS OF THE FORM FOR WHICH THAT CONTRACTOR HAD RESPONSIBILITY.
- ENSURE AUDIBILITY IS MET THROUGH ALL OCCUPIABLE AREAS AND SPACES. THIS WILL BE THOROUGHLY CHECKED AT TIME OF THE ACCEPTANCE TEST.
- ONE SET OF APPROVED PLANS, SPECIFICATIONS, AND COMPUTATIONS SHALL BE RETAINED BY THE BUILDING OFFICIAL FOR A PERIOD OF NOT LESS THAN 90 DAYS FROM DATE OF COMPLETION OF THE WORK COVERED THEREIN, AND ONE SET OF APPROVED PLANS SHALL BE RETURNED TO THE APPLICANT, AND SAID SET SHALL BE KEPT ON THE SITE OF THE BUILDING OR WORK AT ALL TIMES DURING WHICH THE WORK AUTHORIZED THEREBY IS IN PROGRESS.
- A TAG SHALL BE PLACED ON THE FIRE ALARM PANEL WHEN TESTED IN ACCORDANCE WITH NFPA 1 SECTION 13.7.3.2. INFORMATION ON THE TAG SHALL INCLUDE THE DATE OF TESTING, TESTING COMPANY, AND CONTACT INFORMATION, TECHNICIAN PERFORMING THE TEST, AND THAT THE TEST WAS SATISFACTORY.
- THIS CODE (NFPA 1) SHALL NOT BE CONSTRUED TO RELIEVE FROM OR LESSEN THE RESPONSIBILITY OF ANY PERSON OWNING, OPERATING, OR CONTROLLING ANY BUILDING OR STRUCTURE FOR ANY DAMAGES TO PERSONS OR PROPERTY CAUSED BY DEFECTS, NOR SHALL THE CODE ENFORCEMENT AGENCY OR ITS PARENT JURISDICTION BE HELD AS ASSUMING ANY SUCH LIABILITY BY REASON OF THE INSPECTIONS AUTHORIZED BY THIS CODE OR ANY PERMITS OR CERTIFICATES ISSUED UNDER THIS CODE.



Airports Division  
DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



EXP. 4/30/2024

This work was prepared by me or under my supervision.

DSGN.	DRWN.	CHKD.	APPD.

NO.	DATE	REVISIONS

DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

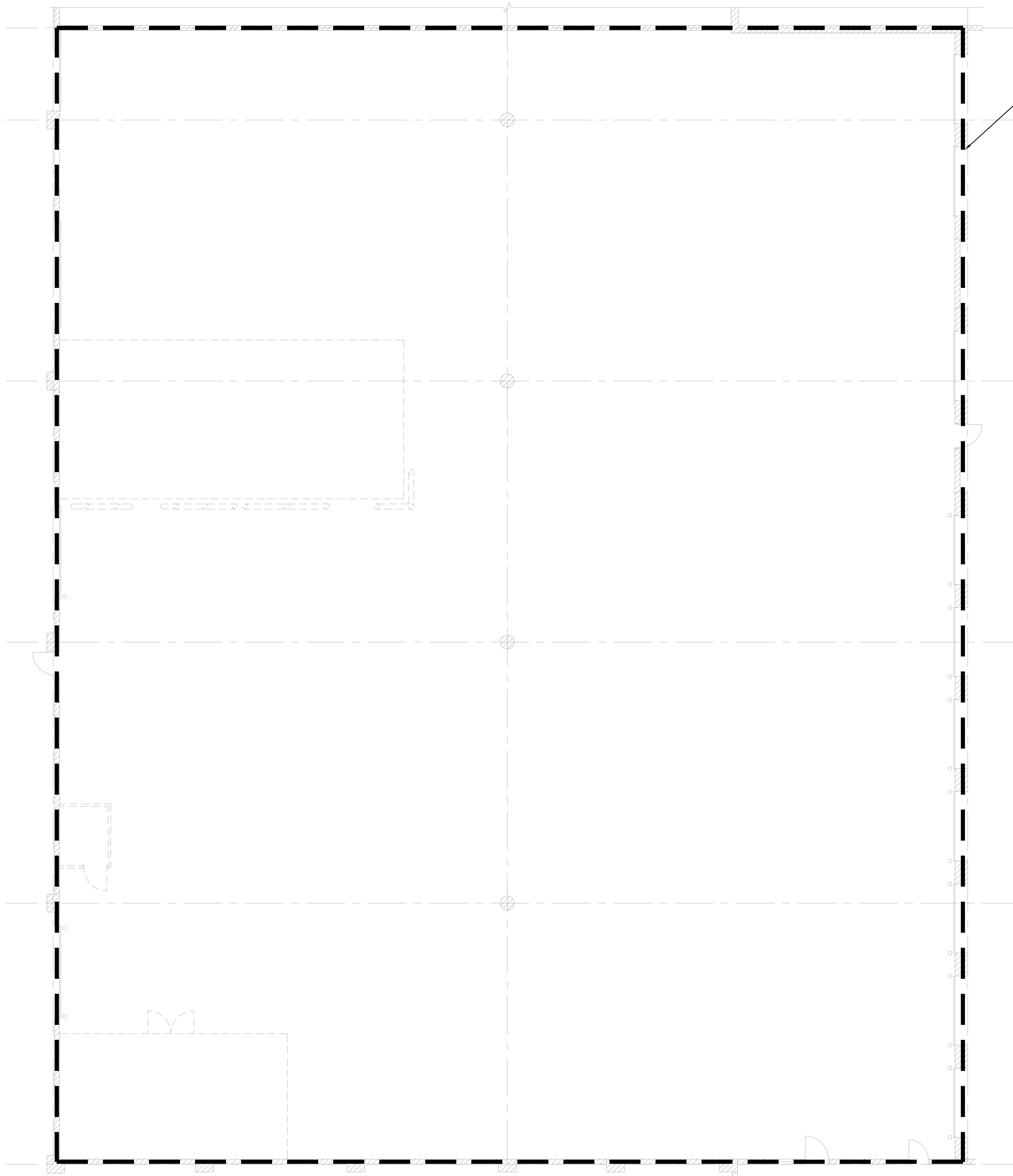
PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**FIRE DEPARTMENT NOTES**

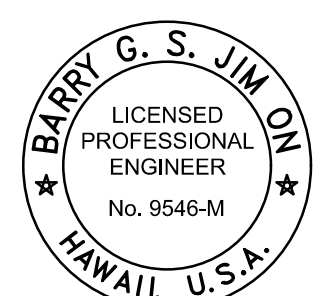
DATE :	DWG. NO.
<b>05/10/23</b>	<b>F003</b>
SHEET :	
55 OF 84 SHEETS	



DEMOLISH ALL EXISTING  
FIRE SPRINKLER PIPING,  
HEADS, VALVES, FIRE ALARM  
DEVICES, FIRE ALARM PANELS,  
CONDUIT AND WIRING



Airports Division  
DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



EXP. 4/30/2024

*Barry G. S. Jim*  
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DSGN.	DRWN.	CHKD.	APPD.

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DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING  
TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**FIRE PROTECTION  
REMOVAL PLAN**

DATE :

**05/10/23**

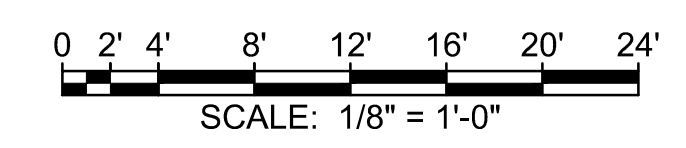
SHEET :

56 OF 84 SHEETS

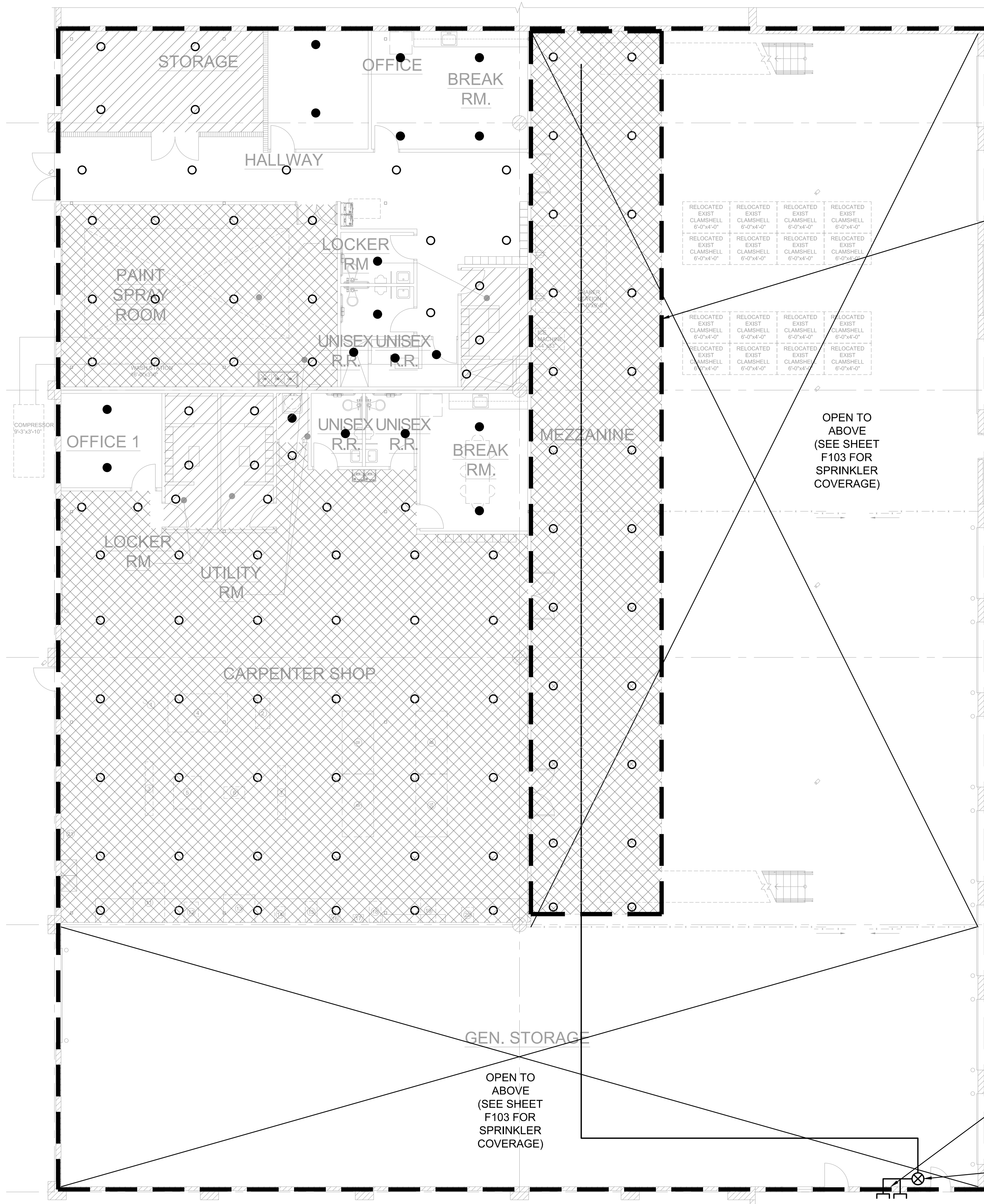
DWG. NO.

**F101**

1 FIRE PROTECTION REMOVAL PLAN  
F101 SCALE: 1/8" = 1'-0"



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FIRE SPRINKLER COVERAGE IN THE MEZZANINE SHALL BE PROVIDED IN THE ROOMS AND ABOVE THE ROOMS THAT IS SHOWN WITHIN THIS BOUNDARY. THE FIRE SPRINKLER HEADS ABOVE THE ROOMS WITHIN THE BOUNDARY ARE EXTRA HAZARD 2

PROVIDE FIRE SPRINKLER COVERAGE BELOW THE MEZZANINE. FIRE SPRINKLER HEADS BELOW THE MEZZANINE SHALL BE EQUIPPED WITH SPRINKLER CAGE GUARDS

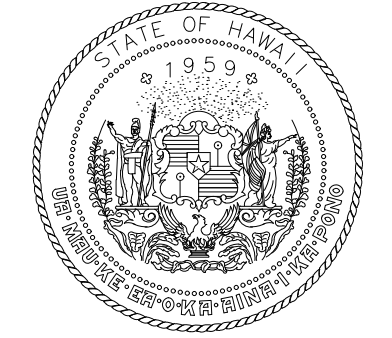
PROVIDE FIRE SPRINKLER COVERAGE IN ACCORDANCE WITH NFPA 13 AND THE HONOLULU COUNTY FIRE CODE

OPEN TO ABOVE (SEE SHEET F103 FOR SPRINKLER COVERAGE)

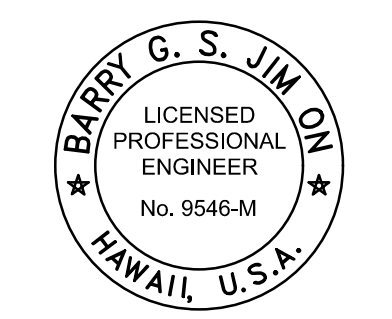
OPEN TO ABOVE (SEE SHEET F103 FOR SPRINKLER COVERAGE)

FIRE DEPARTMENT AND TEST HEADER CONNECTION FOR DETAIL SEE SHEET F-501

8" FIRE SPRINKLER RISER FOR DETAIL SEE SHEET F-501



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STATE OF HAWAII



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NO.	DATE	REVISIONS

DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**FIRE SPRINKLER PLAN**

DATE :

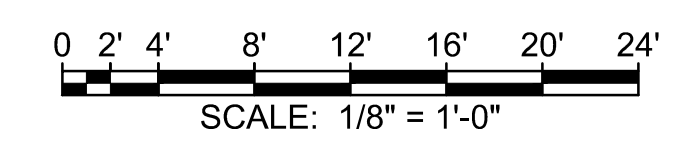
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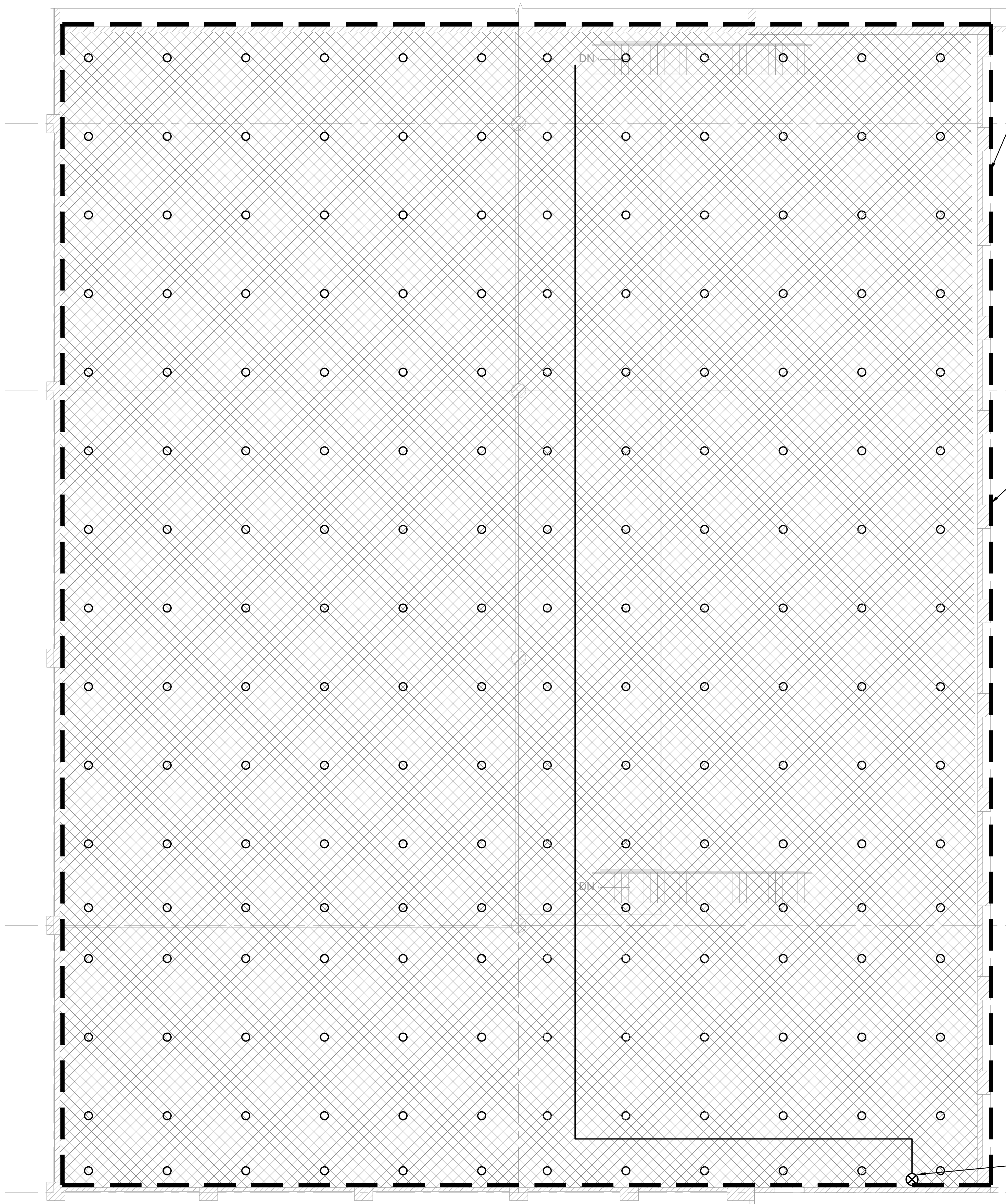
SHEET :

57 OF 84 SHEETS

DWG. NO.

**F102**

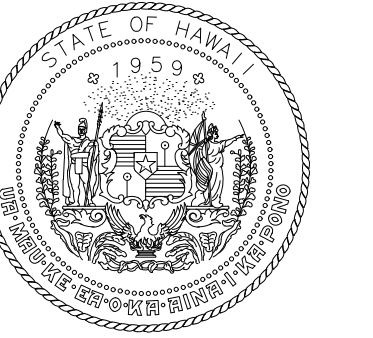




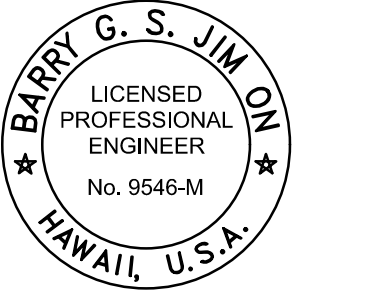
FIRE SPRINKLER COVERAGE IN THE MEZZANINE SHALL BE PROVIDED IN THE ROOMS AND ABOVE THE ROOMS THAT IS SHOWN WITHIN THIS BOUNDARY. THE FIRE SPRINKLER HEADS ABOVE THE ROOMS WITHIN THE BOUNDARY ARE EXTRA HAZARD 2

PROVIDE FIRE SPRINKLER COVERAGE IN ACCORDANCE WITH NFPA 13 AND THE HONOLULU COUNTY FIRE CODE

8" FIRE SPRINKLER MAIN (DOWN)



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PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**FIRE SPRINKLER PLAN**

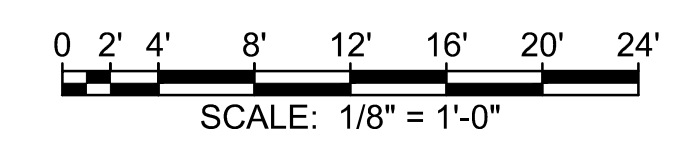
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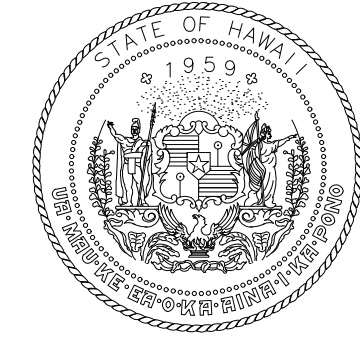
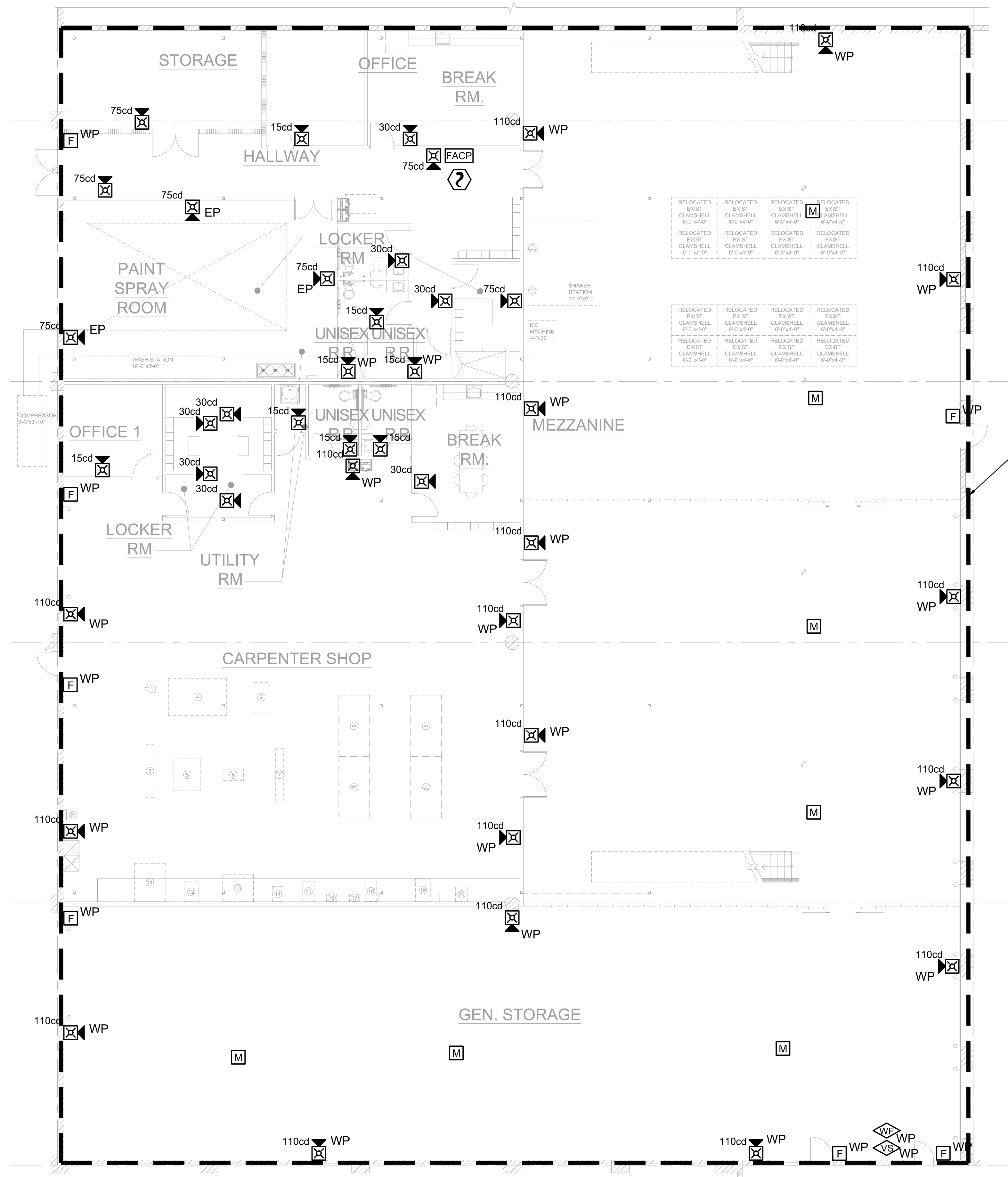
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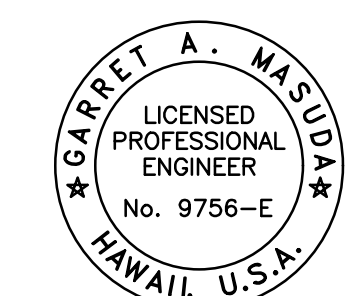
SHEET : 58 OF 84 SHEETS

1 FIRE SPRINKLER PLAN - MEZZANINE  
F102 SCALE: 1/8" = 1'-0"





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EXP. 4/30/2024

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NO.	DATE	REVISIONS

DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**FIRE ALARM PLAN**

DATE :

**05/10/23**

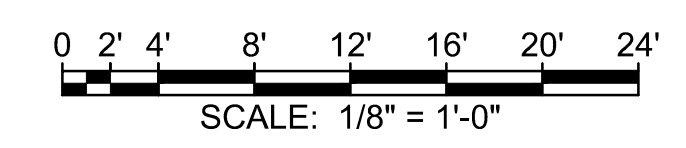
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59 OF 84 SHEETS

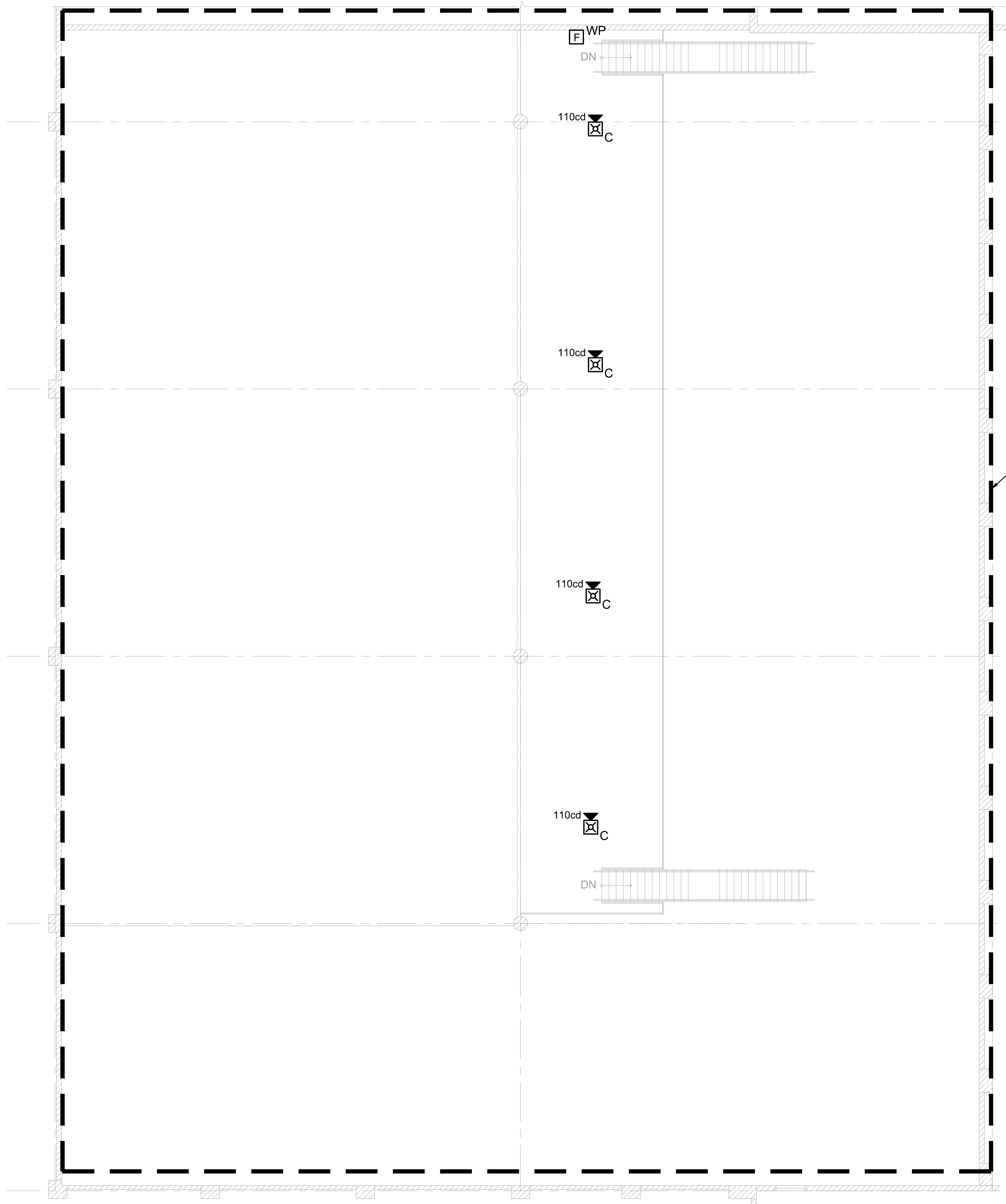
DWG. NO.

**F104**

1 FIRE ALARM PLAN  
F103 SCALE: 1/8" = 1'-0"

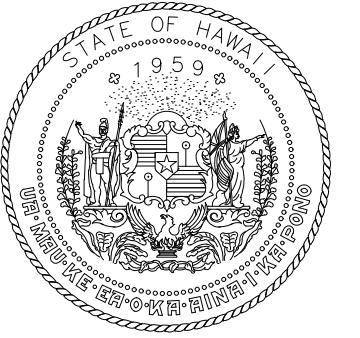
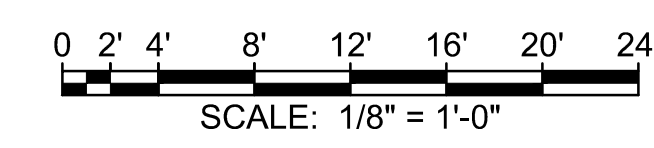


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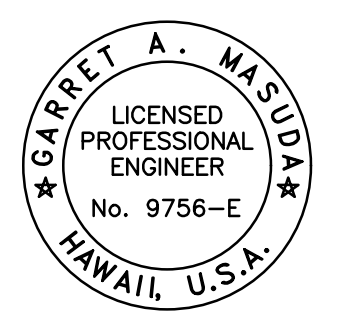


PROVIDE FIRE ALARM COVERAGE  
IN ACCORDANCE WITH NFPA 72 AND  
THE HONOLULU COUNTY FIRE CODE

1 FIRE ALARM MEZZANINE PLAN  
F103 SCALE: 1/8" = 1'-0"



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STATE OF HAWAII



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NO.	DATE	REVISIONS

DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING  
TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**FIRE ALARM  
PLAN**

DATE :  
**05/10/23**

SHEET :  
**F105**

60 OF 84 SHEETS

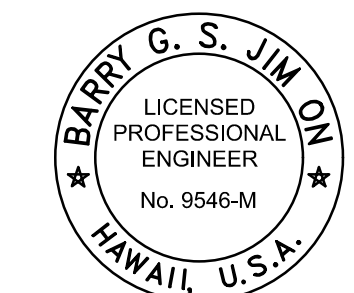
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**F105**

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DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



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NO. DATE REVISIONS

DATE

PROJECT TITLE :

CONVERT CARGO BUILDING  
TO WORKSHOP

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

CO1325-33

SHEET TITLE:

FIRE SPRINKLER  
DETAILS

DATE :

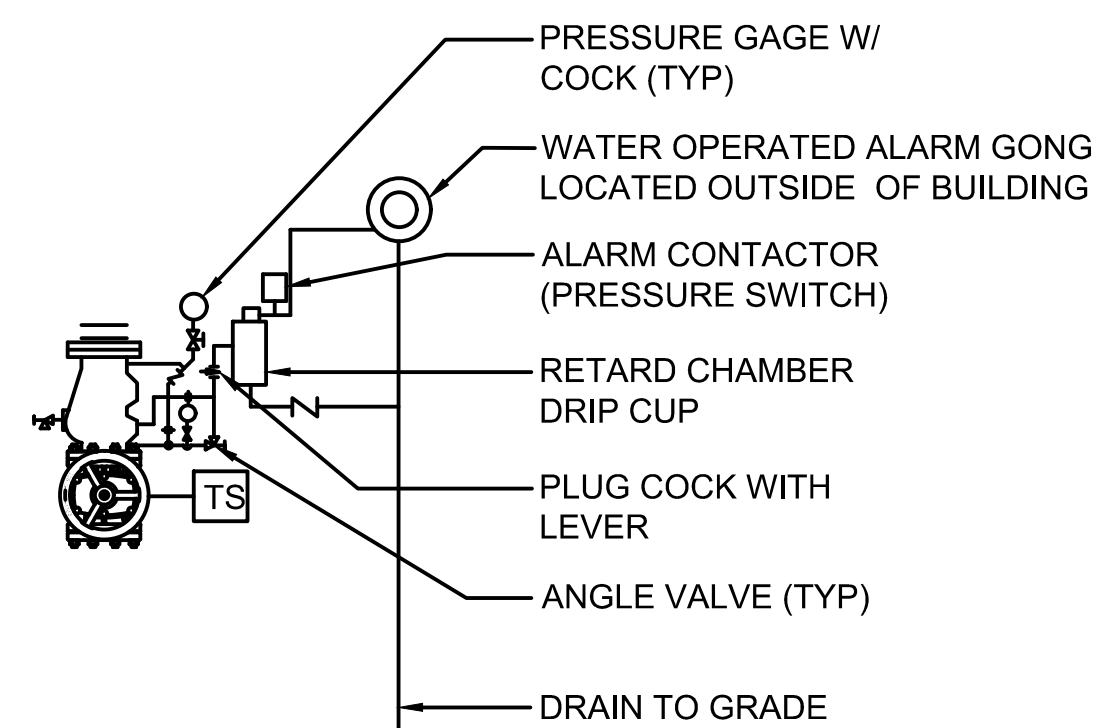
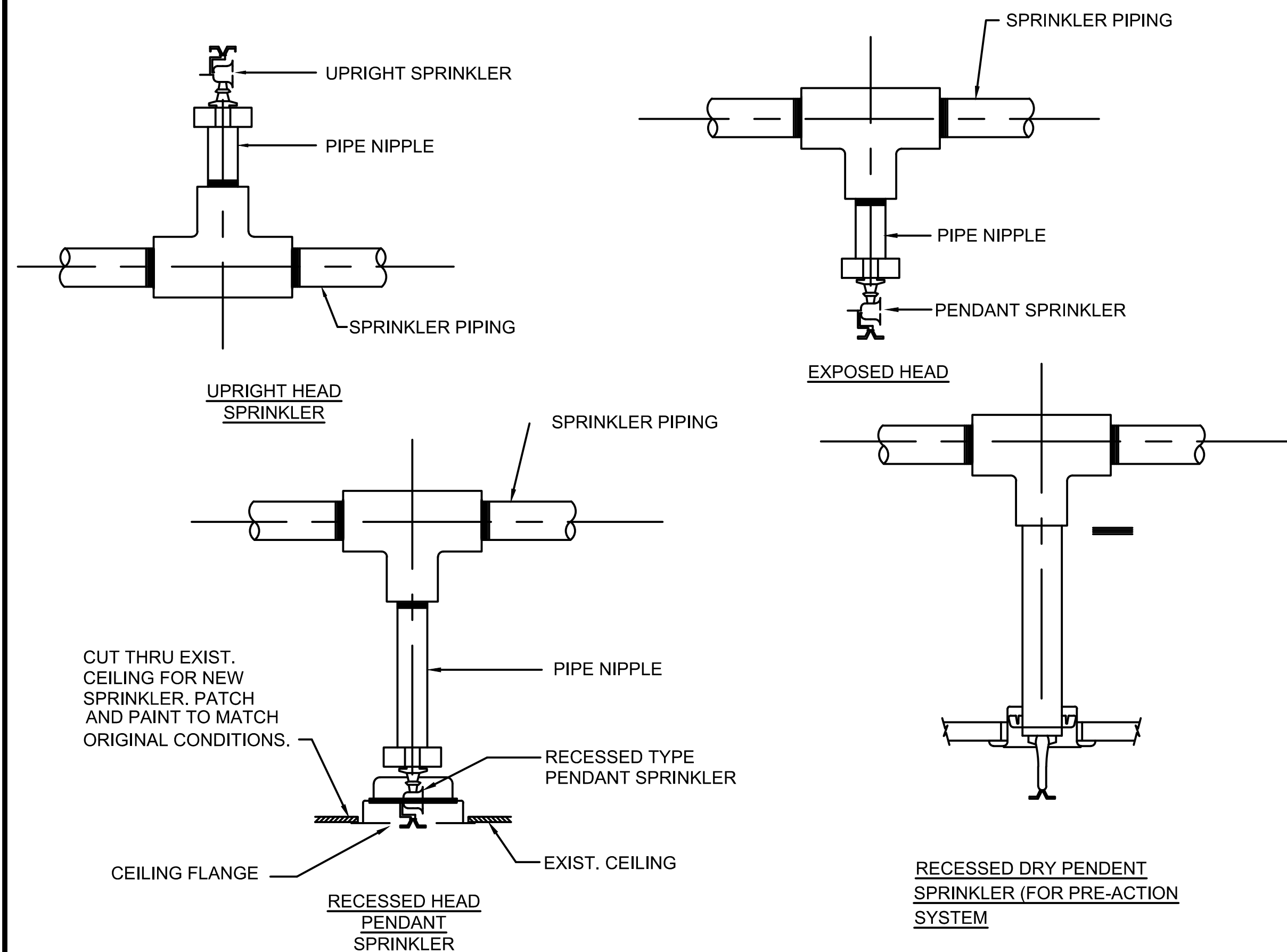
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SHEET :

61 OF 84 SHEETS

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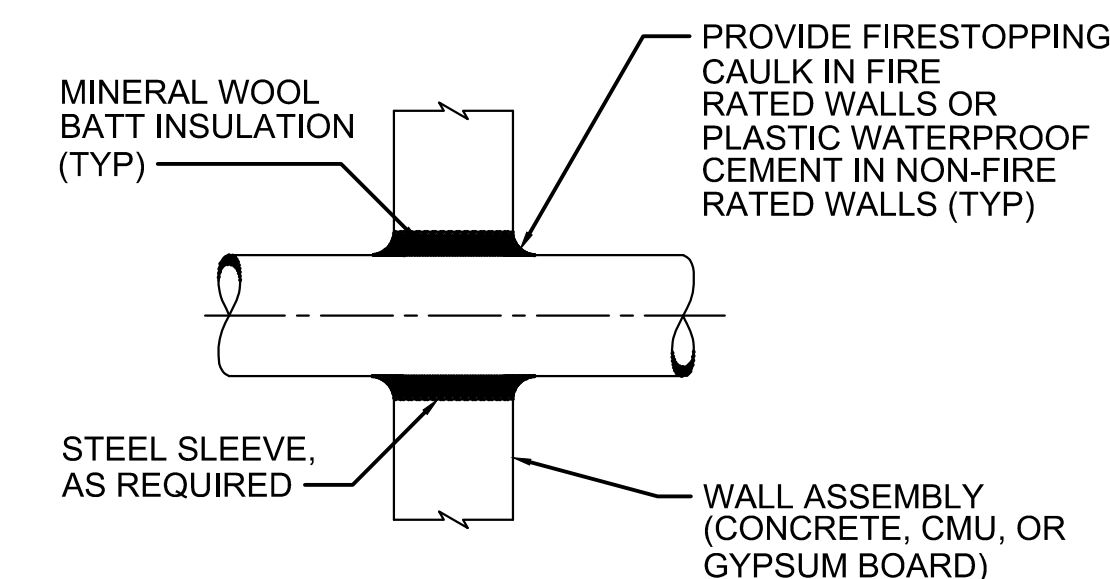
F501



GENERAL NOTES:

1. ALL GATE VALVES AND BUTTERFLY VALVES SHALL BE PROVIDED WITH TAMPER SWITCHES AND SHALL BE ELECTRONICALLY MONITORED BY THE FIRE ALARM SYSTEM.

4 ALARM CHECK VALVE ASSEMBLY DETAIL  
F501 NOT TO SCALE

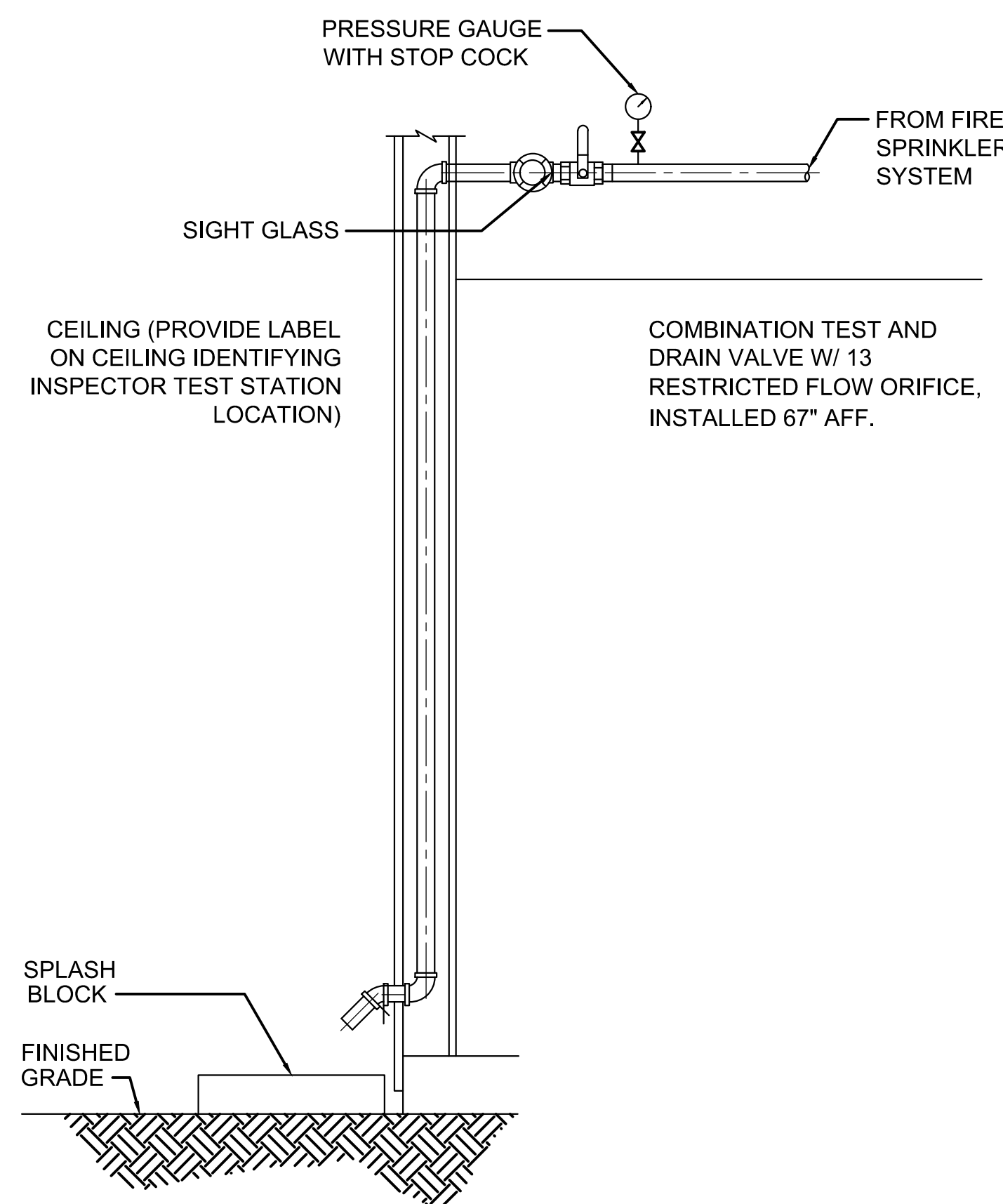


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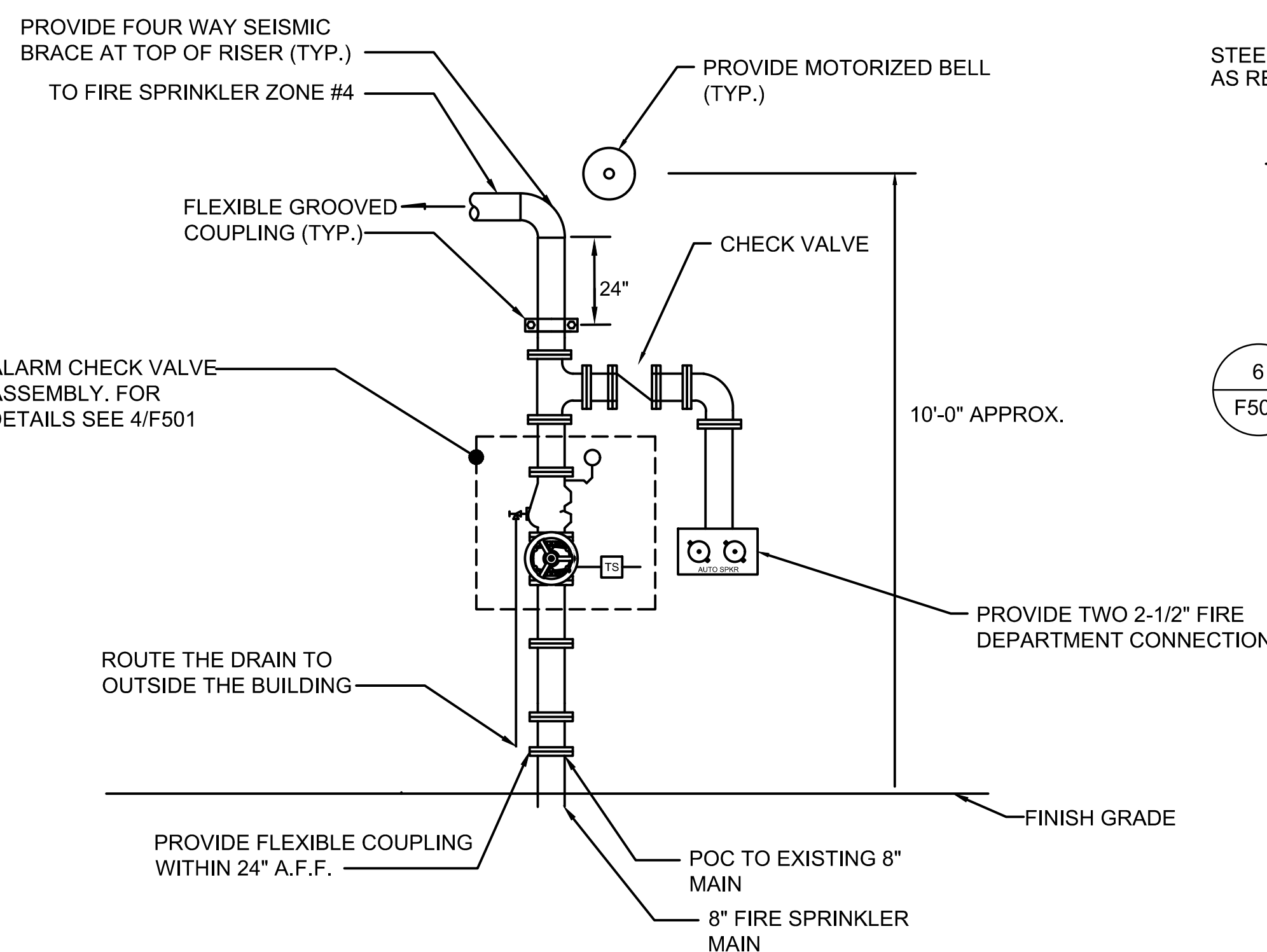
1. CONTRACTOR SHALL PROVIDE A UL LISTED THROUGH PENETRATION FIRESTOP SYSTEM FOR FIRE RATED WALLS.
2. PROVIDE SPRINKLER PIPE CLEARANCES IN ACCORDANCE WITH NFPA 13.

6 TYPICAL PIPE CONDUIT THRU WALL  
F501 NOT TO SCALE

3 TYPICAL SPRINKLER DETAILS  
F501 NOT TO SCALE



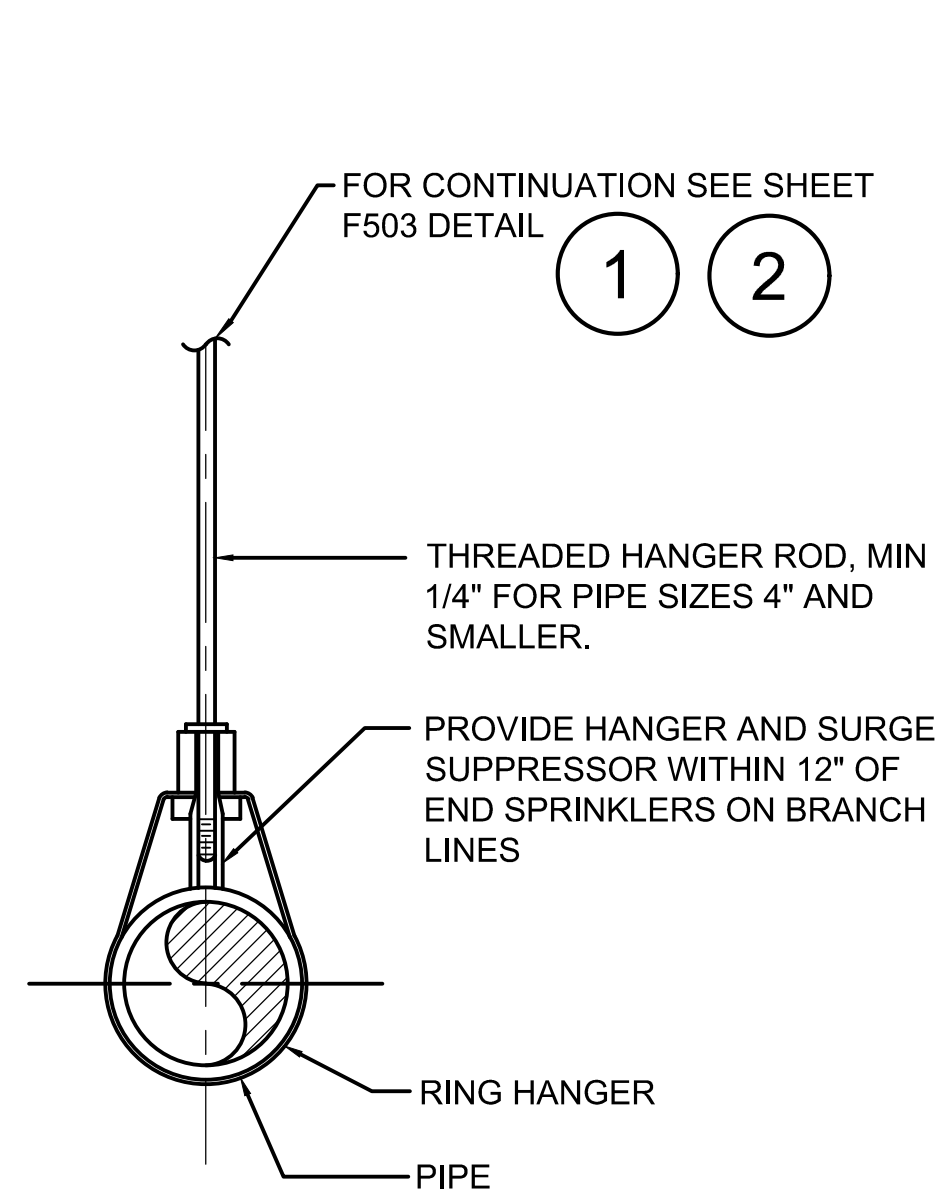
1 INSPECTOR'S TEST CONNECTION  
F501 NOT TO SCALE



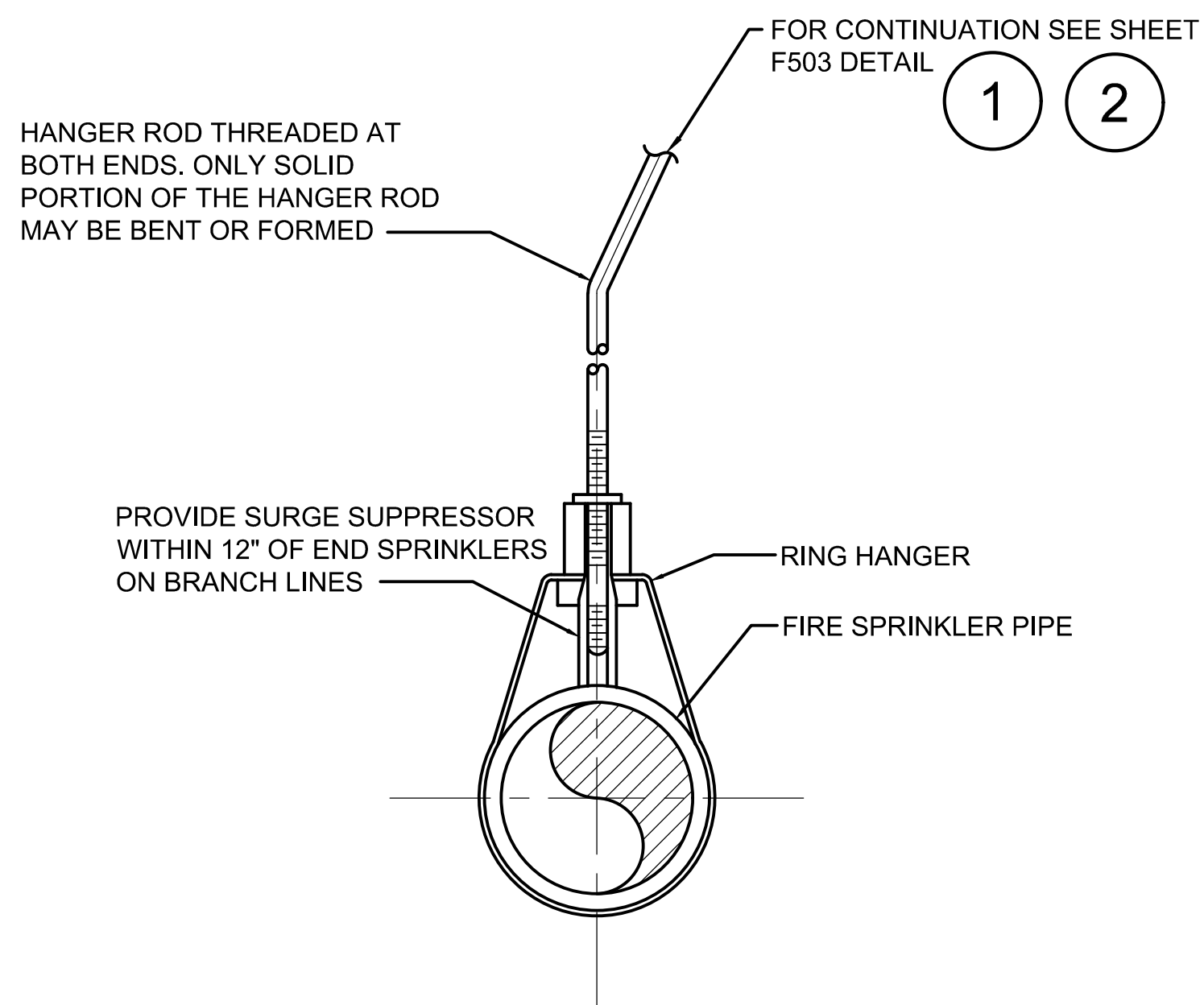
GENERAL NOTES:

1. ALL FIRE SPRINKLER RISERS SHALL BE 8".
2. THE FIRE SPRINKLER RISER, SUPPORTS, FITTINGS AND VALVES SHALL BE PRIMED AND PAINTED RED WITH 2 COATS OF EPOXY COATING.
3. ALL WATERFLOW/PRESSURE SWITCHES AND TAMPER SWITCHES SHALL BE ELECTRONICALLY MONITORED BY THE FIRE ALARM SYSTEM.

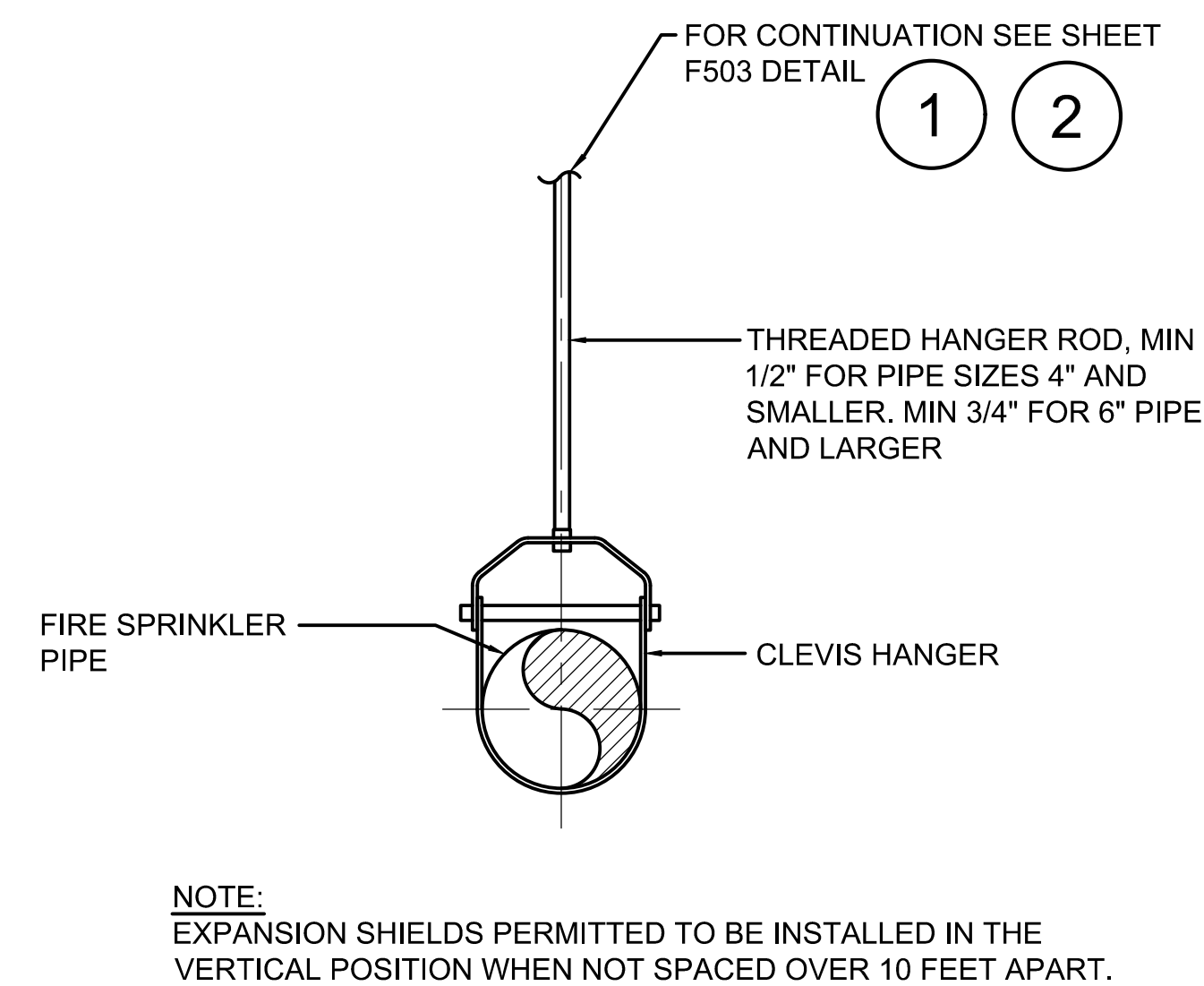
2 FIRE SPRINKLER RISER DETAIL  
F501 NOT TO SCALE



1 PIPE HANGER WITH SURGE SUPPRESSOR  
F502 NOT TO SCALE

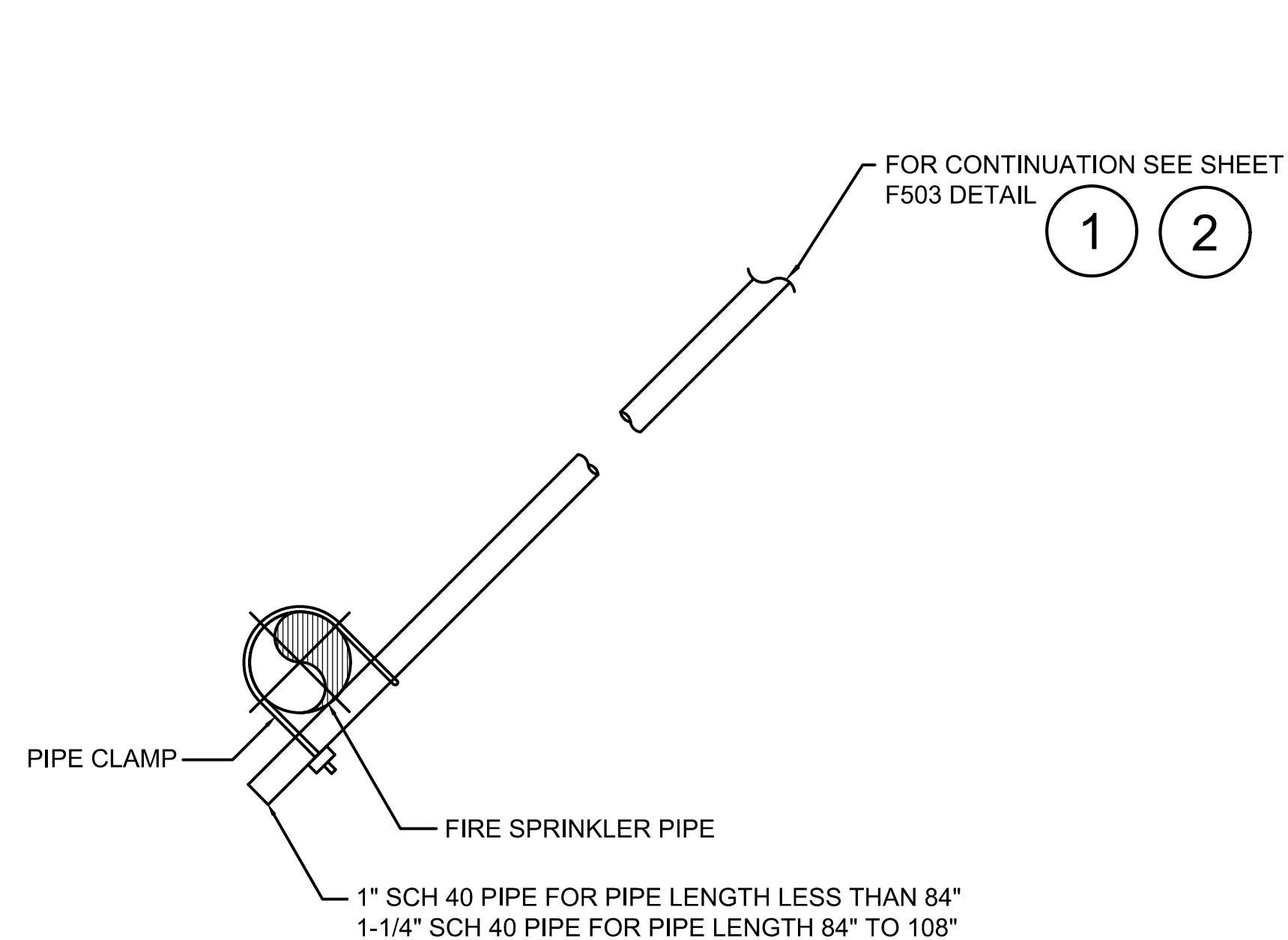


2 PIPE HANGER DETAIL  
F502 NOT TO SCALE



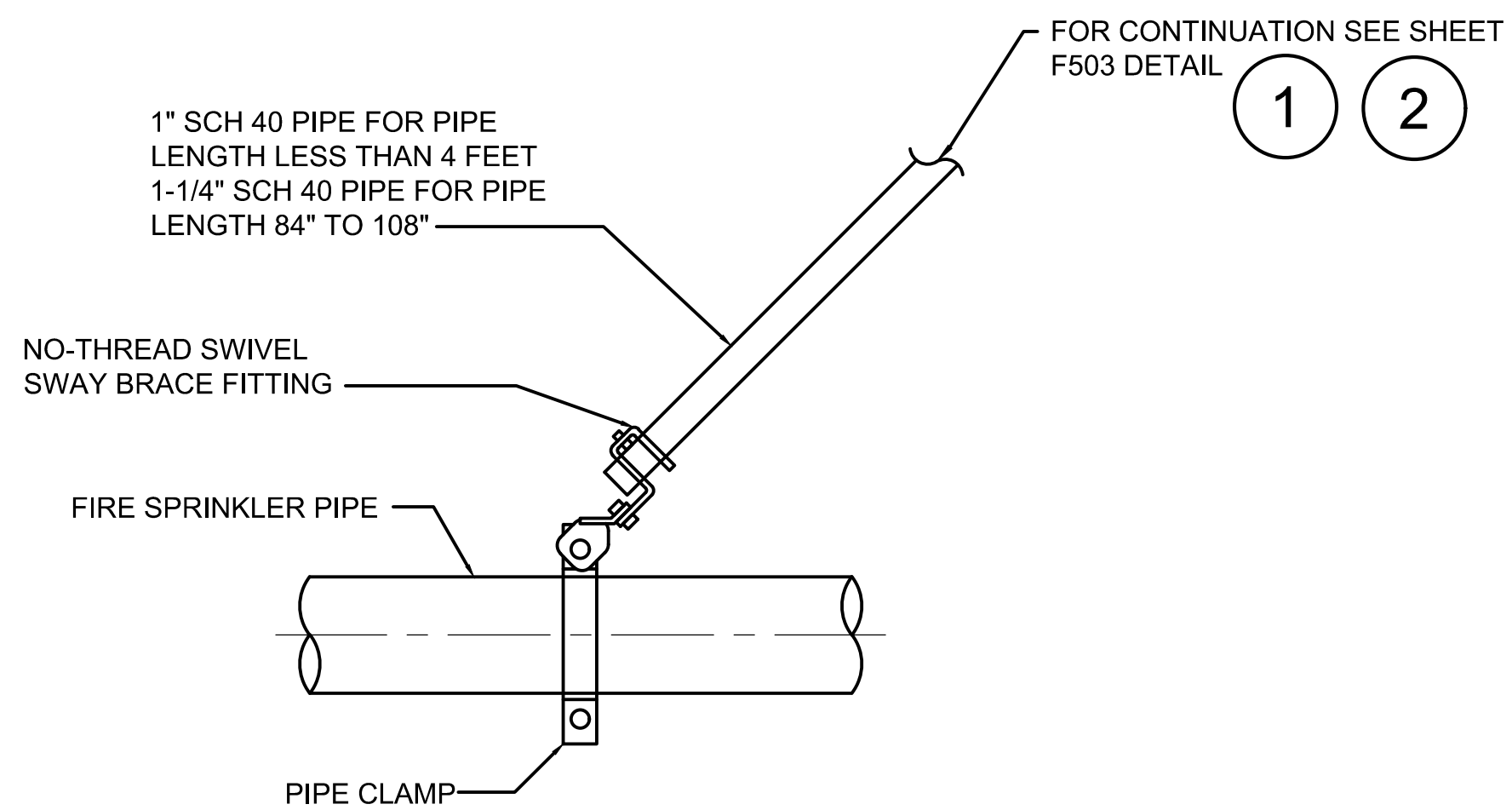
3 STANDARD CLEVIS HANGER FOR 4" PIPE AND LARGER  
F502 NOT TO SCALE

NOTE:  
EXPANSION SHIELDS PERMITTED TO BE INSTALLED IN THE VERTICAL POSITION WHEN NOT SPACED OVER 10 FEET APART.



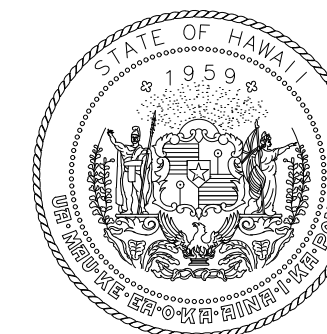
4 LATERAL SWAY BRACE DETAIL  
F502 NOT TO SCALE

- NOTES:
- LATERAL SWAY BRACING SHALL BE SPACED AT A MAXIMUM OF 40 FEET APART.
  - LATERAL SWAY BRACING MAY BE USED FOR BRANCH LINE RESTRAINTS.

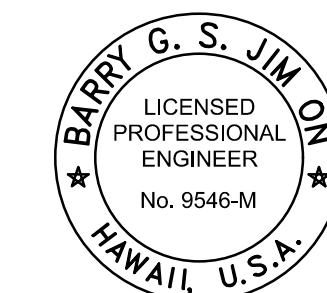


5 LONGITUDINAL SWAY BRACE DETAIL  
F502 NOT TO SCALE

NOTE:  
LONGITUDINAL BRACING SHALL BE SPACED AT A MAXIMUM OF 80 FEET APART.



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STATE OF HAWAII



EXP. 4/30/2024

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DSGN.	DRWN.	CHKD.	APPD.

NO.	DATE	REVISIONS

DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

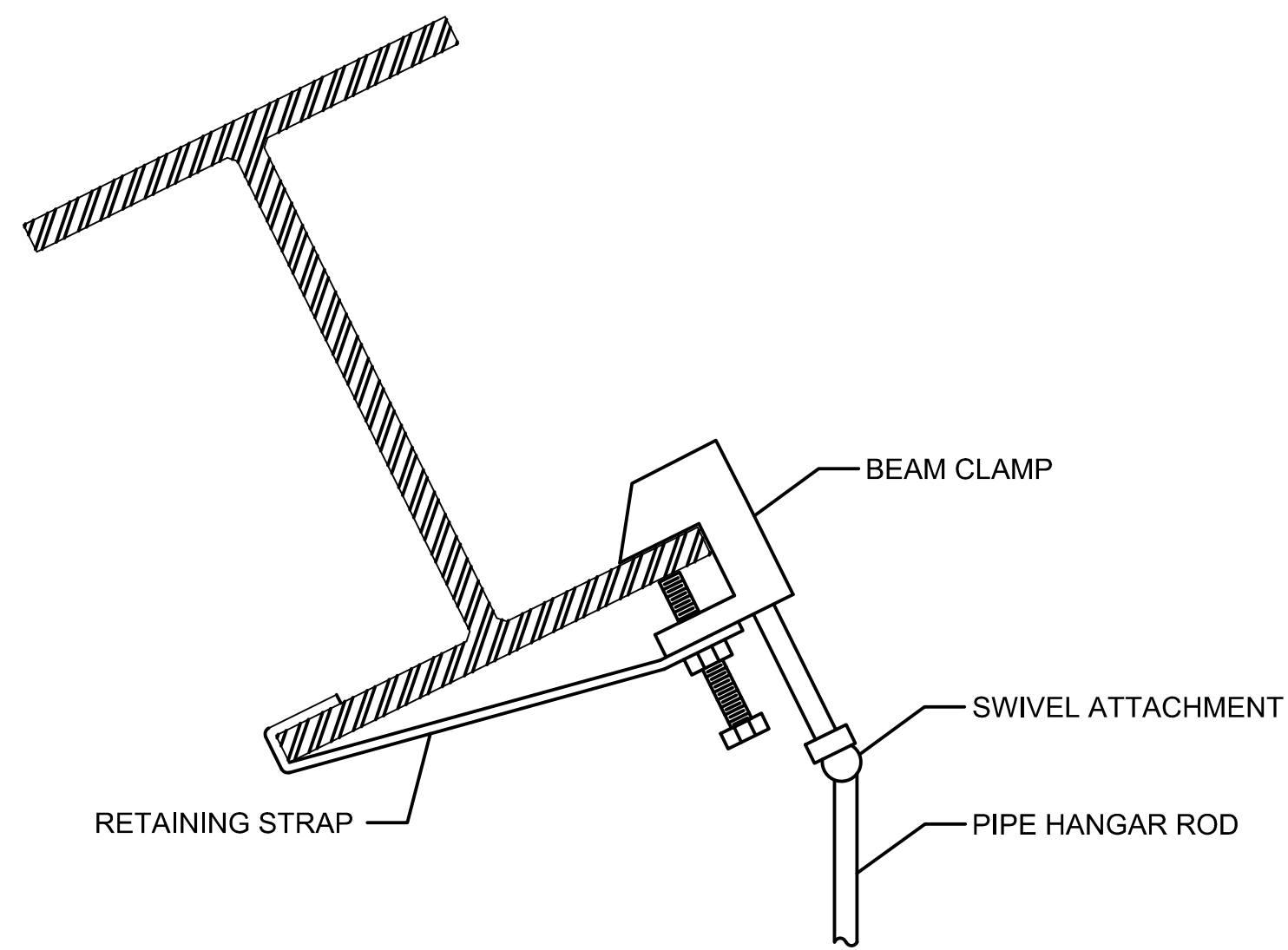
PROJECT NO.:

**CO1325-33**

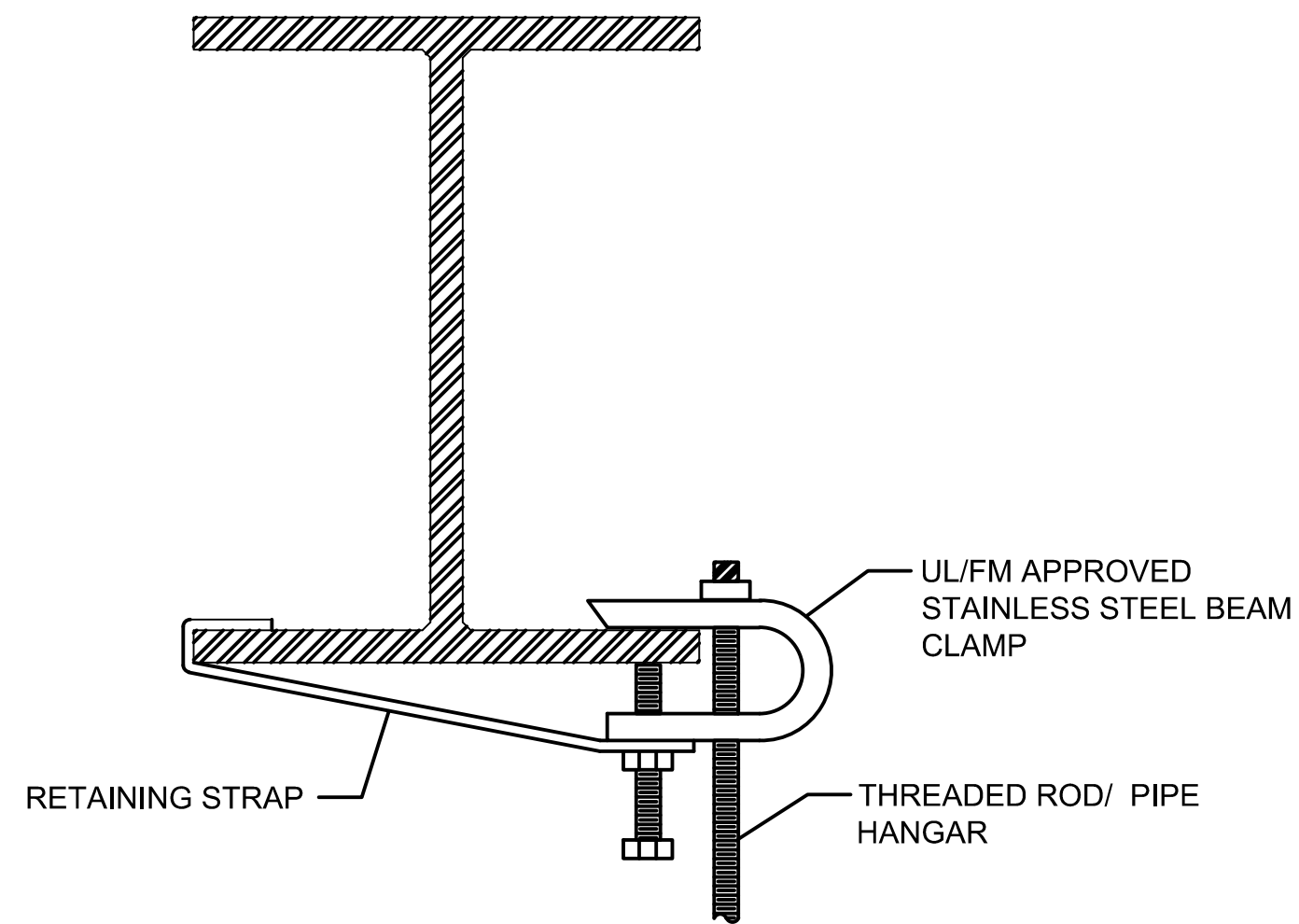
SHEET TITLE:

**FIRE SPRINKLER DETAILS**

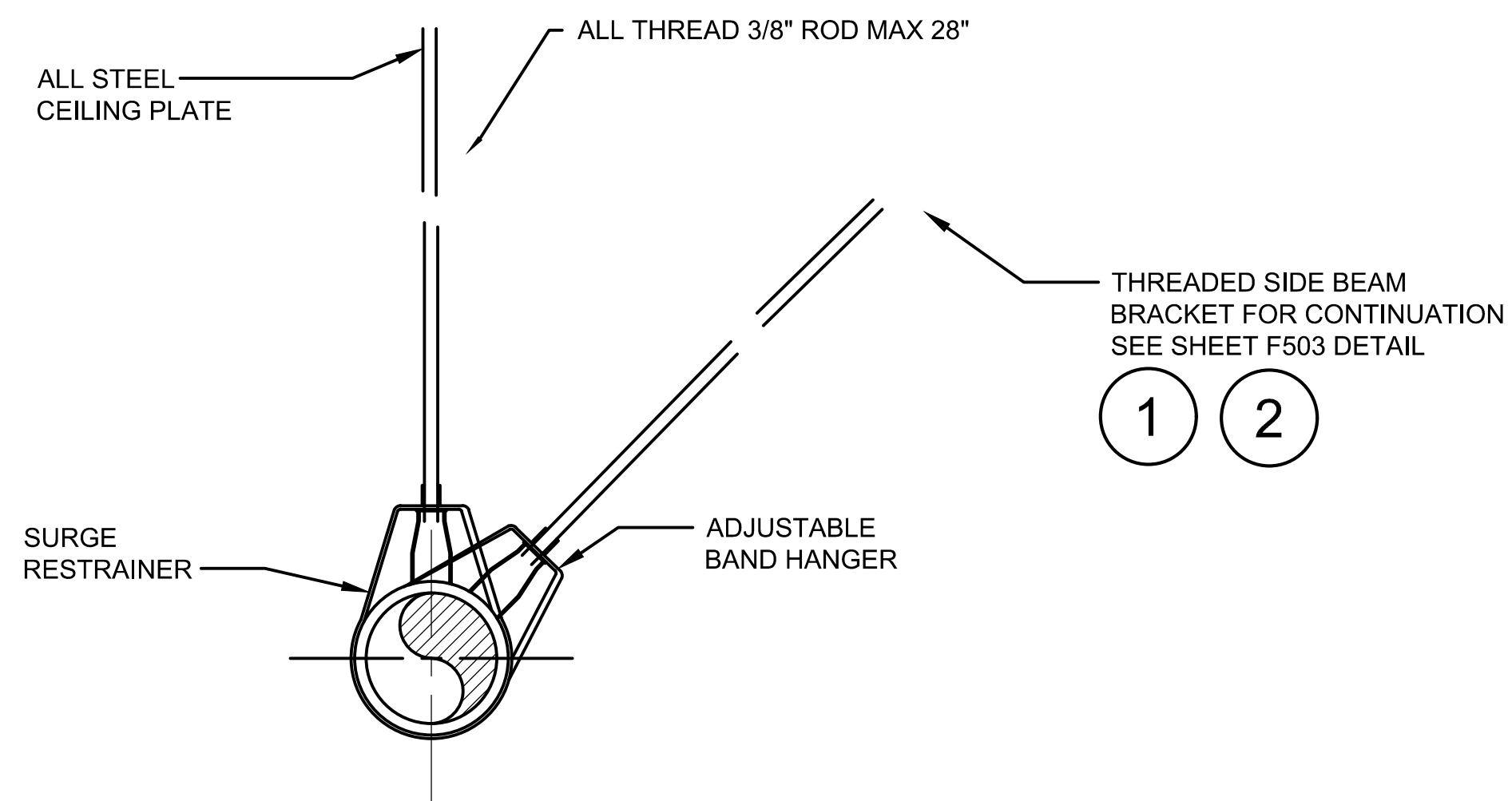
DATE :	DWG. NO.
05/10/23	F502
SHEET :	
62 OF 84 SHEETS	



1 **PITCH ROOF BEAM**  
F503 NOT TO SCALE

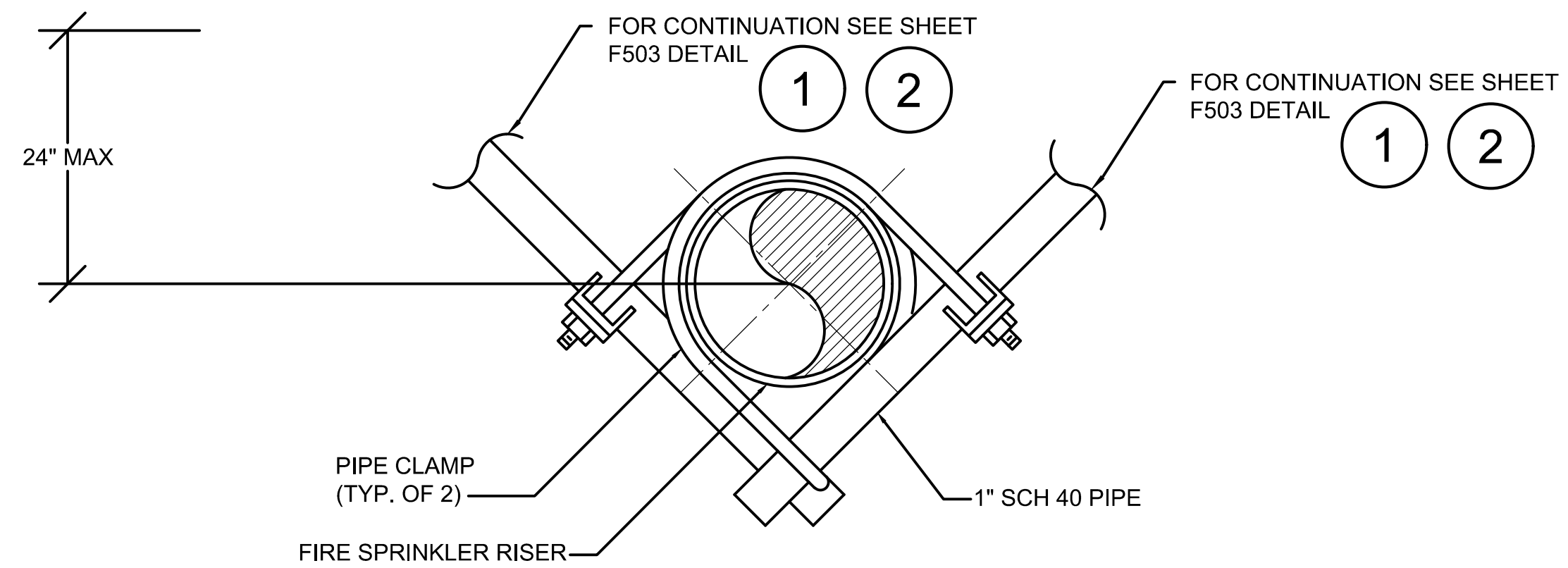


2 **STEEL ATTACHMENT/SUPPORT**  
F503 NOT TO SCALE



NOTE:  
FOR END OF LINE WHERE HANGER SUPPORT ROD IS LONGER THAN 6" IN LENGTH, LOCATE WITHIN 2 FT OF THE HANGER

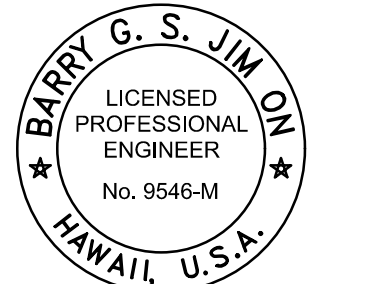
3 **TYPICAL END OF LINE RESTRAINT**  
F503 NOT TO SCALE



4 **4-WAY SWAY BRACE DETAIL**  
F503 NOT TO SCALE



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DEPARTMENT OF TRANSPORTATION  
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DATE

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AT  
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HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**FIRE SPRINKLER DETAILS**

DATE :

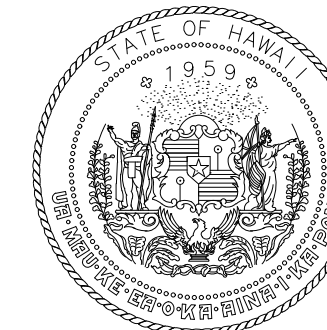
05/10/23

SHEET :

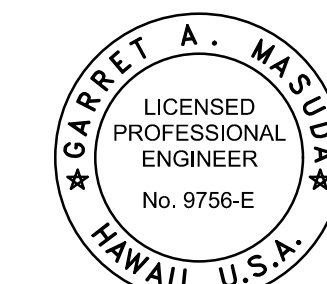
63 OF 84 SHEETS

DWG. NO.

**F503**



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EXP. 4/30/2024

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NO.	DATE	REVISIONS
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DATE

PROJECT TITLE :

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AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**FIRE ALARM  
DETAILS**

DATE :	DWG. NO.
05/10/23	<b>F504</b>
SHEET :	
64 OF 84 SHEETS	

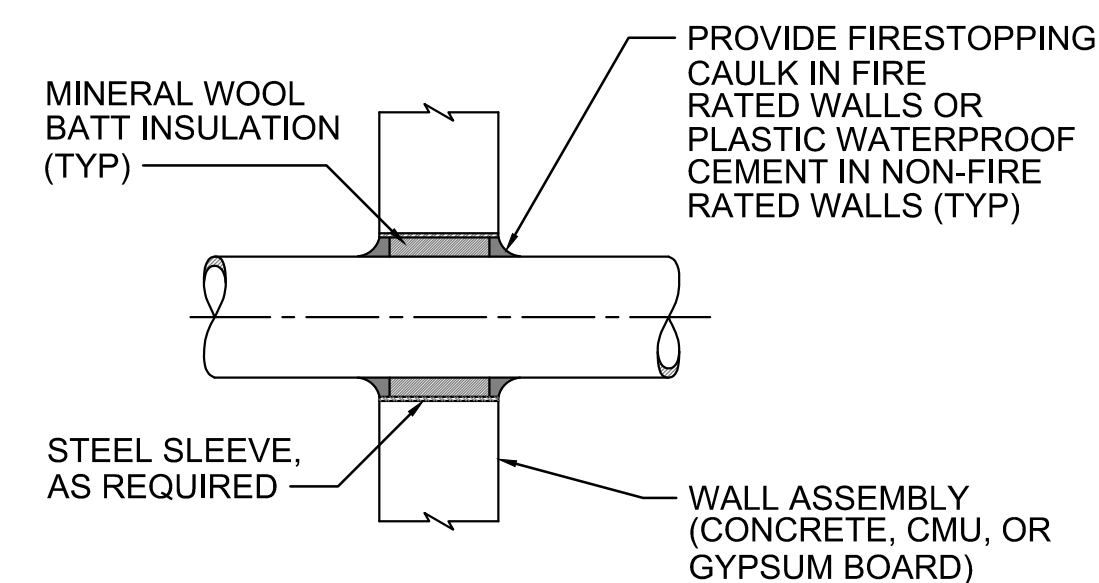
FIRE ALARM SYSTEM INPUT	TRANSMIT SIGNALS TO THE FIRE DEPARTMENT				ANNUNCIATION AT PANEL			AUXILIARY FUNCTIONS		
	SYSTEM OUTPUT ALARM SIGNAL PER BUILDING	COMMON SMOKE OR HEAT GENERAL ALARM SIGNAL PER BUILDING	COMMON MANUAL PULL STATION ACTIVATION SIGNAL PER BUILDING	COMMON SUPERVISORY SIGNAL	SPRINKLER FLOW SIGNAL	ACTIVATE VISIBLE AND AUDIBLE ALARM ANNUNCIATOR	ACTIVATE VISIBLE AND AUDIBLE ALARM ANNUNCIATOR	ACTIVATE VISIBLE AND AUDIBLE SUPERVISORY ANNUNCIATOR	INITIATION DEVICE AND OCCUPANT NOTIFICATION APPLIANCES OPERATION	SHUT DOWN THE HIGH VOLUME LOW SPEED FANS
SPRINKLER RISER OR FLOOR WATER FLOW OR PRESSURE SWITCH				X	X			X	X	
SINGLE BREAK OR GROUND FAULT IN FIRE ALARM CIRCUIT			X			X		X		X
SMOKE DETECTOR AT PANEL	X					X				X
LOW BATTERY			X		X					
POWER FAILURE			X							
PULL STATION ACTIVATION		X				X				X

\* IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS AND THE MATRIX, THE MATRIX SEQUENCE WILL TAKE PRECEDENCE.

NOTE:

1. THE CLIENT SHALL BE RESPONSIBLE IN PROVIDING A SERVICE/COMPANY THAT WILL MONITOR THE TELEPHONE AUTO DIALER. THE COMPANY SHALL BE CAPABLE OF A 24 HOURS AND 7 DAYS A WEEK MONITORING AT A CENTRAL STATION AND CAPABLE OF NOTIFYING THE FIRE DEPARTMENT AS REQUIRED BY NFPA 72.
2. THE CONTRACTOR SHALL PROVIDE THE AUTO DIALER TO MONITOR THE FIRE ALARM SYSTEM THE AUTO DIALER SHALL BE CAPABLE OF SENDING AN ALARM, SUPERVISORY AND TROUBLE SIGNAL. CONTRACTOR SHALL PROVIDE A NUMBER OF AUTO DIALERS NEEDED TO SEND ALL 3 SIGNALS IF THE AUTO DIALER IS CAPABLE OF SENDING ONLY ONE SIGNAL AT A TIME.
3. THE FIRE ALARM SYSTEM SHALL SHUT POWER TO THE HIGH VOLUME LOW SPEED FANS (BIG FANS) INSIDE THE WAREHOUSE UPON ACTIVATION OF THE FIRE SPRINKLER FLOW SWITCH REFER TO THE ELECTRICAL SHEETS FOR THE LOCATION OF THE ELECTRICAL PANEL LOCATIONS SERVING THE FANS.

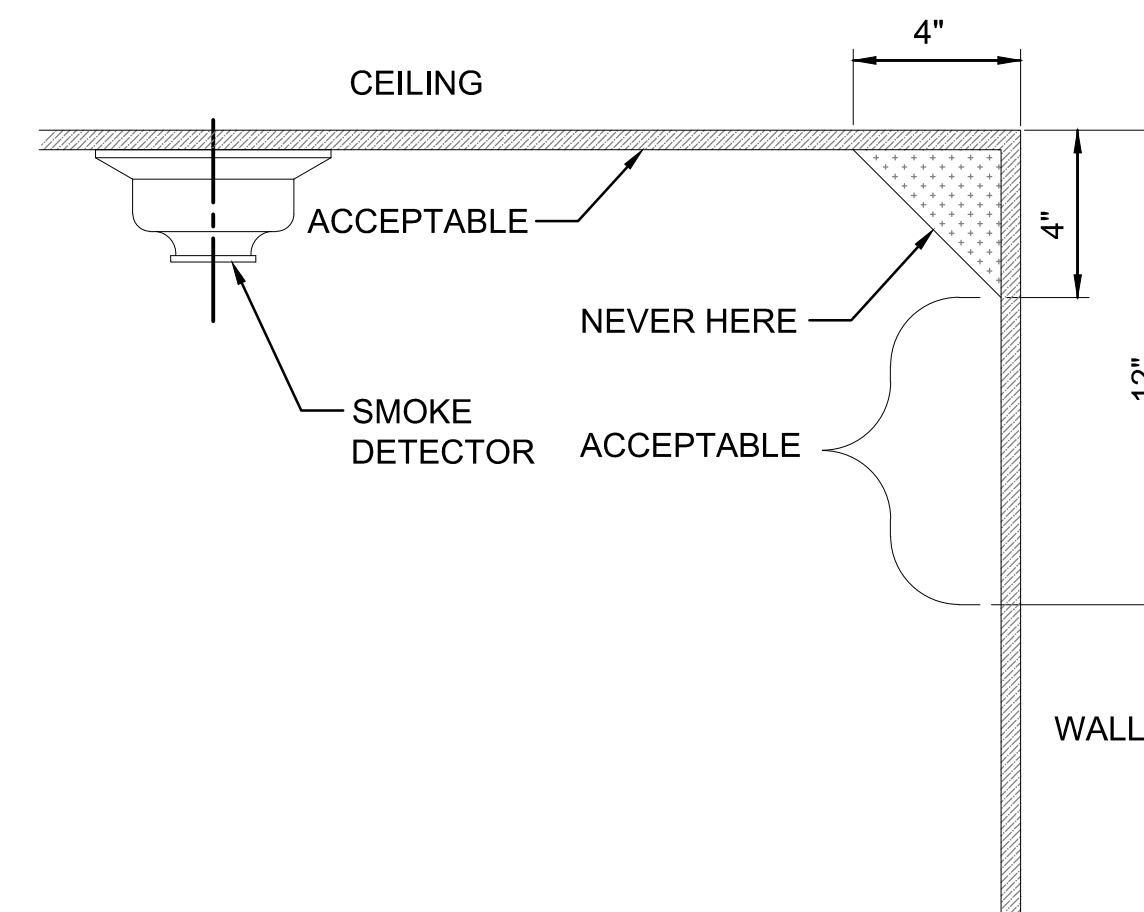
**1 FIRE PROTECTION MATRIX OF OPERATIONS**  
F504 NOT TO SCALE



NOTES:

1. CONTRACTOR SHALL PROVIDE A UL LISTED THROUGH PENETRATION FIRESTOP SYSTEM FOR FIRE RATED WALLS.

**2 TYPICAL PIPE AND CONDUIT THRU WALL DETAIL**  
F504 NOT TO SCALE



**3 SMOKE DETECTOR MOUNTING DETAIL**  
F504 NOT TO SCALE

## ELECTRICAL SYMBOL LIST / MOUNTING HEIGHT SCHEDULE

MOUNTING HEIGHT FROM FLOOR TO TOP		SYMBOL		DESCRIPTION
		□	○	LUMINAIRE LED, CEILING RECESSED MOUNTED
			●	LUMINAIRE LED, CEILING RECESSED MOUNTED, EMERGENCY FUNCTION
			●	LUMINAIRE LED, RECESSED DOWNLIGHT, NIGHT LIGHT
		●		LUMINAIRE LED, WALL SCONCE, NIGHT LIGHT
			●	LUMINAIRE LED, RECESSED DOWNLIGHT, NIGHT LIGHT
		⊕		LUMINAIRE, STEP LIGHT, NIGHT LIGHT
		↔		ILLUMINATED EXIT SIGN, WALL MOUNTED, DIRECTIONAL ARROWS AS INDICATED
		\$	\$	LIGHT SWITCH, FLUSH WALL MOUNTED, 1P20A, 120/277V, 1HP MAX
			\$ <sub>M</sub>	SWITCH, 120/277V, MOTOR RATED SWITCH
		⊕	⊕	RECEPTACLE, DUPLEX, GROUNDING TYPE, 125V, NEMA TYPE 5-20R
			⊕	RECEPTACLE, DUPLEX, GFCI TYPE, 125V, NEMA TYPE 5-20R
			↔	DATA/COMM OUTLET, WALL MOUNTED, WITH BLANK COVER PLATE
			⊕	TIME SWITCH, 120/277V, MULTICHANNEL
		⊕		MOTOR STARTER
		⊕	⊕	DISCONNECT SWITCH
		—	—	CONCEALED CONDUIT (NO HASHMARKS INDICATE 2-WIRES WITHIN).
			A	LUMINAIRE DESIGNATOR, "A" INDICATES TYPE
		⊕	⊕	JUNCTION BOX, HORIZONTALLY MOUNTED
			⊕	JUNCTION BOX, WALL MOUNTED
			⊕	EQUIPMENT CONNECTION
		—	—	PANELBOARD
		☎	☎	TELEPHONE CABINET OR CATV CABINET
		▶	▶	TELEPHONE OUTLET BOX, WALL MOUNTED WITH BLANK DEVICE PLATE
			⊕	CATV OUTLET, WALL MOUNTED
		⊕		FIRE PROTECTION EQUIPMENT CABINET, TYPE AS INDICATED
		□ <sub>p</sub>	□ <sub>p</sub>	FIRE ALARM MANUAL PULL STATION
			cd	FIRE ALARM AUDIO/VISUAL SIGNALING DEVICE, CEILING MOUNTED (W=WATTAGE CD=CANDELA RATING)
		⊕ <sub>cd</sub>		FIRE ALARM WALL INDICATED VISUAL ONLY DEVICE (CD=CANDELA RATING)
			⊕	SMOKE DETECTOR
		[FACP]		FIRE ALARM CONTROL PANEL
			[FEP]	FIRE ALARM EXTENDER PANEL
		←//→	←//→	HOMERUN ARROW TO PANELBOARD. LETTER INDICATES PANELBOARD, NUMBERS INDICATES CIRCUITS.
		~	~	FLEXIBLE CONUIT
		-F-	-F-	FIRE ALARM RACEWAY, 3/4" MINIMUM CONDUIT, CONDUCTORS AS REQUIRED
		-T-	-T-	TELEPHONE SYSTEM RACEWAY, 3/4" MINIMUM CONDUIT WITH PULL SYSTEM
		-D-	-D-	DATA/COM SYSTEM RACEWAY, 1" MINIMUM CONDUIT WITH PULL STRING
		-V-	-V-	TV SYSTEM RACEWAY, 3/4" MINIMUM CONDUIT WITH PULL STRING

**LEGEND NOTES:**

- LIGHTENED SYMBOLS AND LINES INDICATE EXISTING. BOLD SYMBOLS AND LINES INDICATE NEW WORK

## ELECTRICAL ABBREVIATIONS

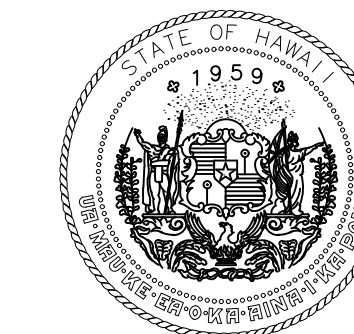
AIC	AMPERE-INTERRUPTING CAPACITY	HHG	HANDHOLE GROUP	V	VOLTS
AFF	ABOVE FINISH FLOOR	HTCO	HAWAIIAN TELCOM CO.	W	WIRE, WIDE, WATTS, WITH
AMP, A	AMPERE	JB	JUNCTION BOX	WP	WEATHERPROOF
AWG	AMERICAN WIRE GAUGE	KV	KILO-VOLT	XFMR	TRANSFORMER
BKR	BREAKER	KVA	KILO-VOLT AMPERE	'	FOOT, FEET
BLDG	BUILDING	L	LONG, LENGTH	"	INCH, INCHES
BKBD	BACKBOARD	MLO	MAIN LUGS ONLY	FEP	FIRE ALARM EXTENDER PANEL
C	CONDUIT, CONDUCTOR	MTD	MOUNT OR MOUNTED		
CATV	CABLE TELEVISION	MTG	MOUNTING		
CKT	CIRCUIT	(N)	NEW		
CL	CENTER LINE	NEC	NATIONAL ELECTRICAL CODE		
D	DEEP	NEMA	NATIONAL ELECTRICAL MANUFACTURE'S ASSOCIATION		
ECB	ENCLOSED CIRCUIT BREAKER	NO.,#	NUMBER		
EQUIP	EQUIPMENT	PFB	PROVISION FOR FUTURE BREAKER		
(E)	EXISTING	PNL	PANEL		
FA	FIRE ALARM	∅	PHASE		
FACP	FIRE ALARM CONTROL PANEL	RM	ROOM		
FLA	FULL LOAD AMPERE	S/S	STAINLESS STEEL		
GND	GROUND	THK	THICK		
H	HIGH, HEIGHT	TYP	TYPICAL		
HH	HANDHOLE	UON	UNLESS OTHERWISE NOTED		

CITY AND COUNTY OF HONOLULU  
REVISED ORDINANCES OF HONOLULU 1990  
CHAPTER 32

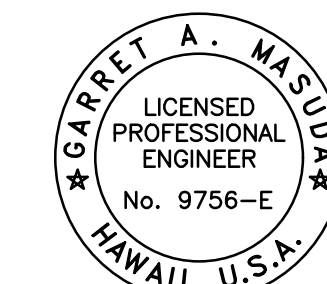
TO THE BEST OF MY KNOWLEDGE, THIS PROJECT'S DESIGN SUBSTANTIALLY  
CONFORMS TO THE BUILDING ENERGY CONSERVATION CODE FOR:

X ELECTRICAL COMPONENT SYSTEMS

SIGNATURE: \_\_\_\_\_ DATE: 08-31-22  
 NAME: GARRET A. MASUDA  
 TITLE: ELECTRICAL ENGINEER  
 LICENSE No.: 15968-E



Airports Division  
DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



EXP. 4/30/2024

*Garret A. Masuda*  
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DSGN.	DRWN.	CHKD.	APPD.

NO.	DATE	REVISIONS

DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING  
TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

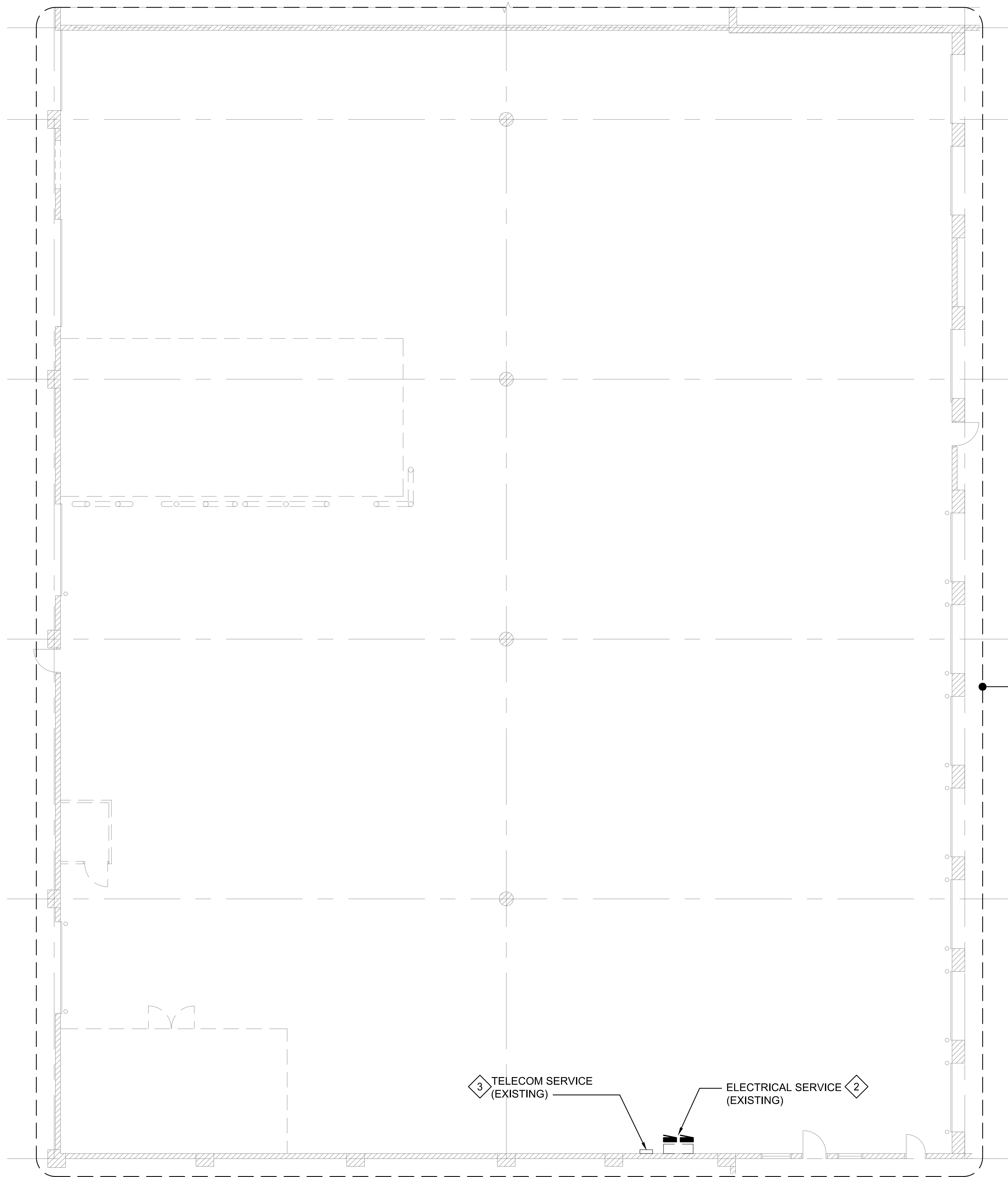
SHEET TITLE:

**ELECTRICAL  
LEGEND**

DATE :	DWG. NO.
05/10/23	E-001
SHEET :	
65 OF 84 SHEETS	

C:\USERS\MARC\DESKTOP...\_RINGS\2022\2208705-10-2023\MMAE-001.DWG



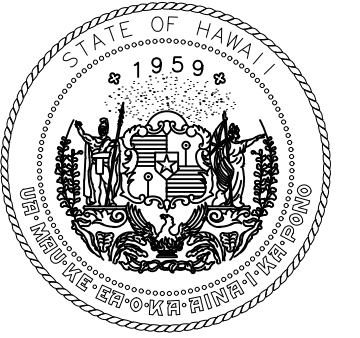


**REMOVAL NOTES:**

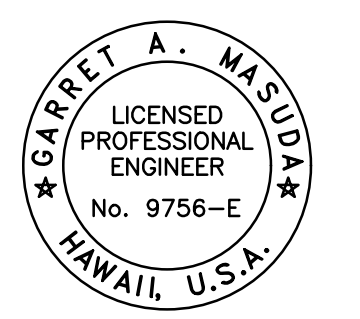
- 1 REMOVE ALL ELECTRICAL DEVICES, LUMINAIRES, TEL/COMM DEVICES AND ASSOCIATED CONDUIT AND WIRING, AND APPURTENANCES, UNLESS NOTED TO REMAIN OR OTHERWISE. REFERENCE ARCHITECTURAL PLANS.
- 2 EXISTING ELECTRICAL SERVICE  
REMOVE EXISTING ELECTRICAL PANELBOARDS AND MAINTAIN EXISTING CIRCUITS TO REMAIN FOR REUSE. EXISTING WIREWAY AND FEEDER FROM UNIT SUB-STATION SHALL REMAIN. MAINTAIN LIGHTING CONTACTORS, TIMESWITCH, AND APPURTENANCES AS REQUIRED. SEE E-601 AND E-602.
- 3 EXISTING TELECOM SERVICE  
MAINTAIN EXISTING TELECOM SERVICE FOR REUSE AND SHALL REMAIN.

**GENERAL NOTES:**

- 1. VERIFY ALL EXISTING ELECTRICAL EQUIPMENT CONDITIONS AT FIELD



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HONOLULU, OAHU, HAWAII

**PROJECT NO.:**

**CO1325-33**

**SHEET TITLE:**

**OVERALL ELECTRICAL DEMO PLAN**

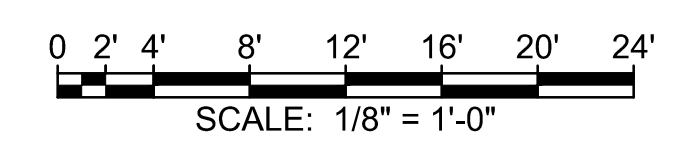
DATE :  
**05/10/23**

SHEET :  
67 OF 84 SHEETS

DWG. NO.

**ED101**

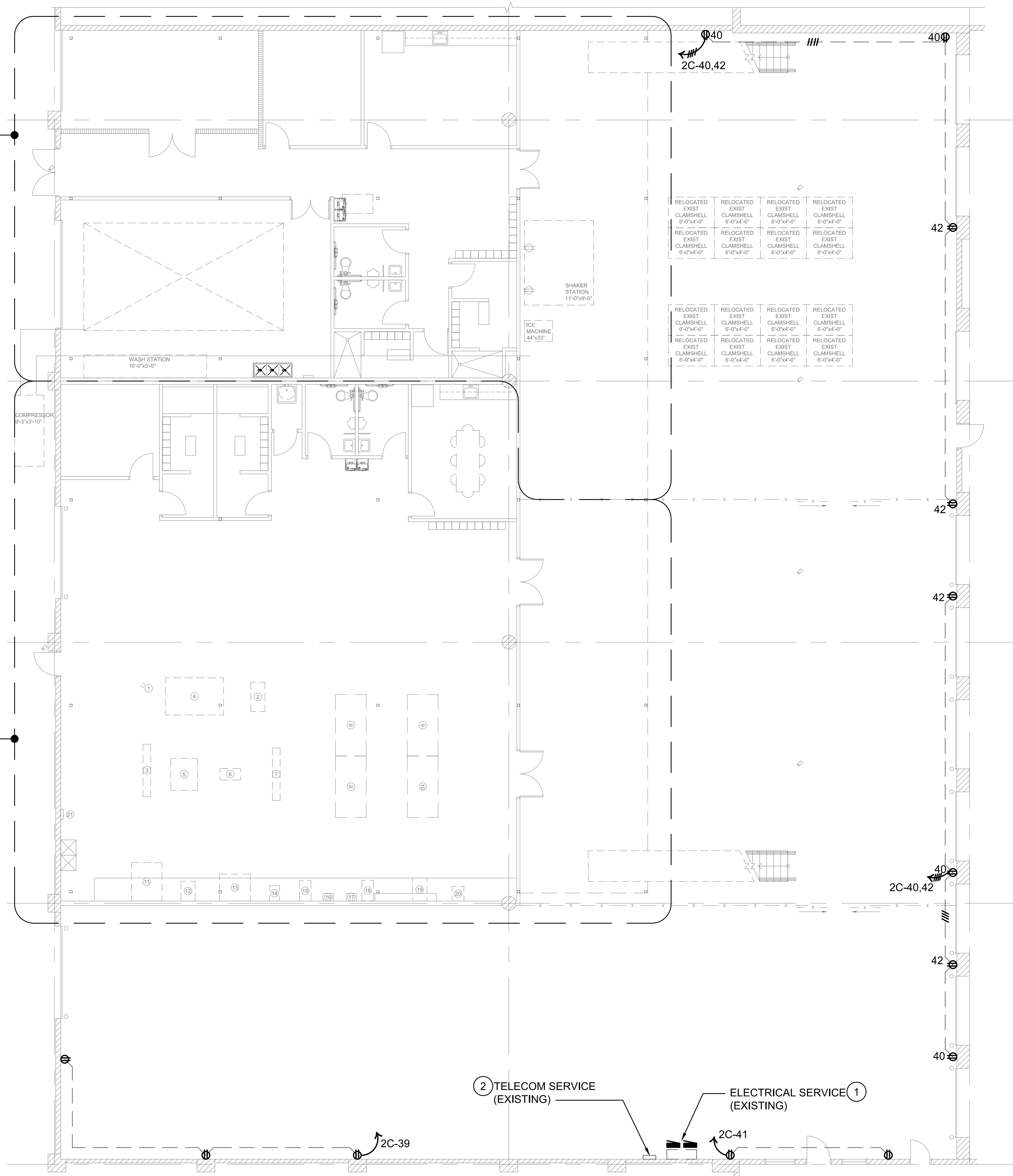
1 OVERALL ELECTRICAL DEMO PLAN  
ED101 SCALE: 1/8" = 1'-0"



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FOR ENLARGED PAINT SHOP  
ELECTRICAL AND TELECOM PLAN.  
SEE SHEET E-201

FOR ENLARGED CARPENTER SHOP  
ELECTRICAL AND TELECOM PLAN.  
SEE SHEET E-203



**CONSTRUCTION NOTES**

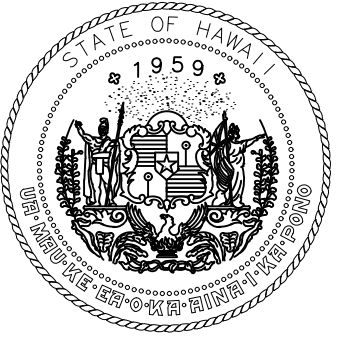
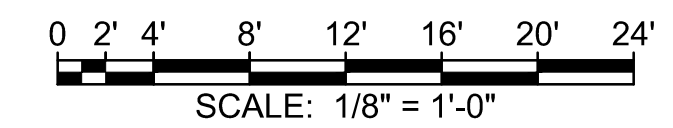
- ① ELECTRICAL SERVICE (EXISTING)  
SEE ONE-LINE DIAGRAMS ON SHEETS E-601  
AND E-602
- ② TELECOM SERVICE (EXISTING)  
SHOWN FOR LOCATION.

RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"
RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"

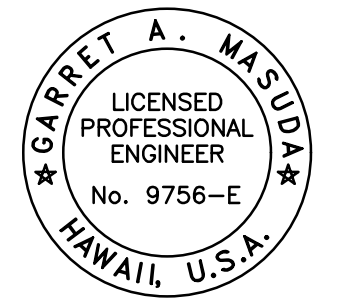
RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"
RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"

② TELECOM SERVICE (EXISTING)      ELECTRICAL SERVICE ① (EXISTING)

**1 OVERALL NEW ELECTRICAL PLAN**  
E-101 SCALE: 1/8" = 1'-0"



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DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



EXP. 4/30/2024

*Daniel A. Masuda*  
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DSGN.	DRWN.	CHKD.	APPD.
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NO.	DATE	REVISIONS
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DATE

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HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

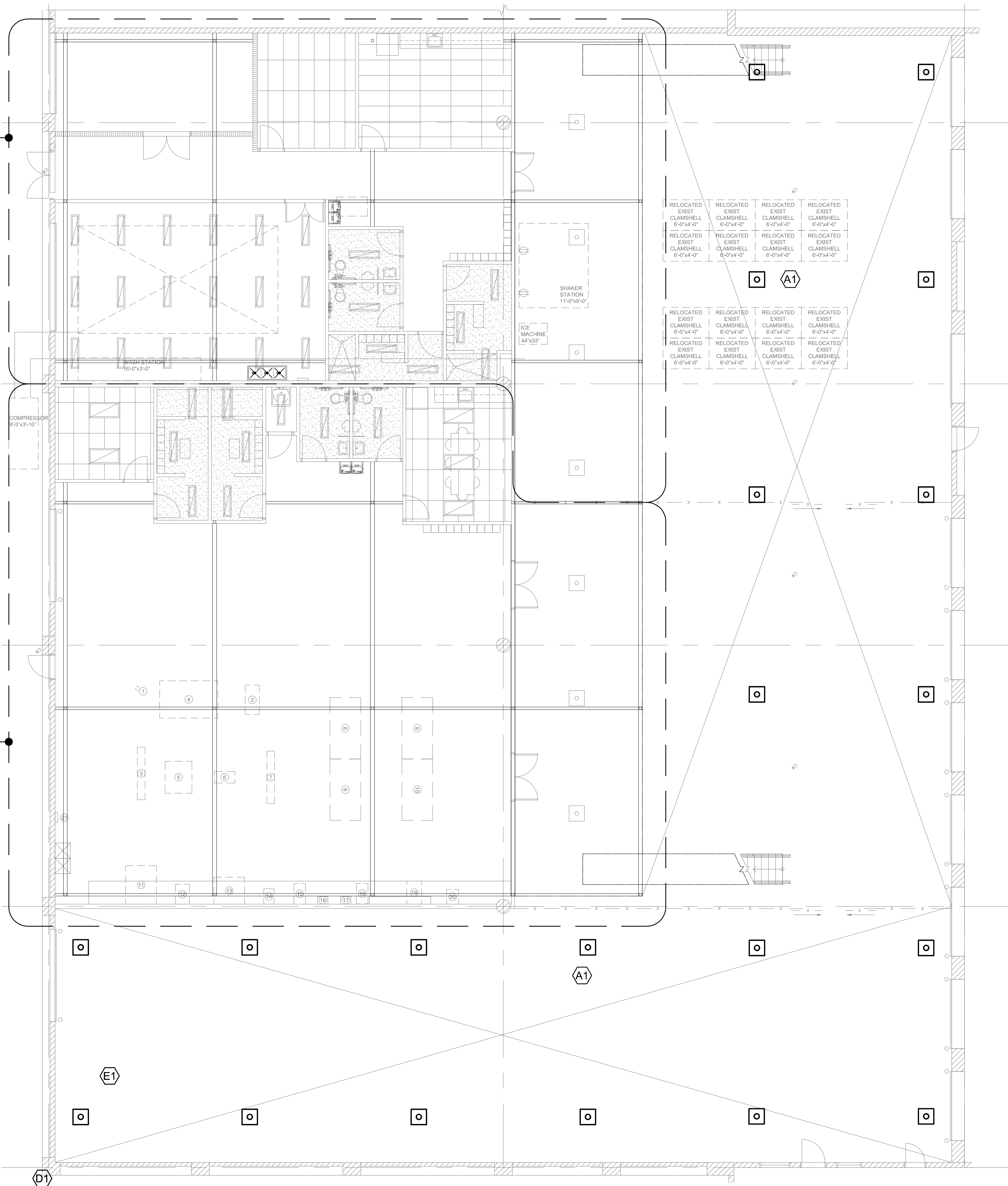
**OVERALL NEW ELECTRICAL PLAN**

DATE :	DWG. NO.
05/10/23	E-101
SHEET :	
68 OF 84 SHEETS	

C:\USERS\MARC\DESKTOP\...\_RINGS\2022\228705-10-2023\MMAE-101.DWG

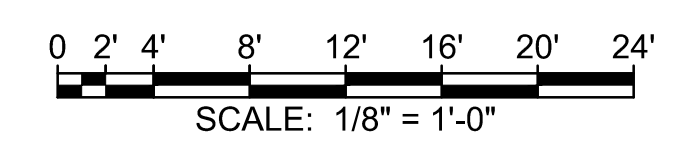
FOR ENLARGED PAINT SHOP  
LIGHTING PLAN. SEE SHEET E-202

FOR ENLARGED CARPENTER SHOP  
LIGHTING PLAN. SEE SHEET E-204

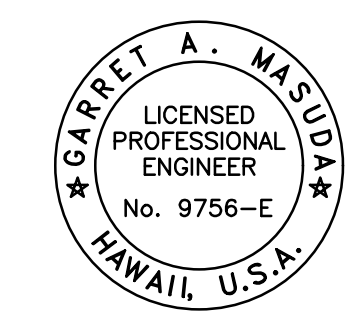


RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"
RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"

**1** OVERALL NEW LIGHTING PLAN  
E-102 SCALE: 1/8" = 1'-0"



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HONOLULU, OAHU, HAWAII

PROJECT NO.:

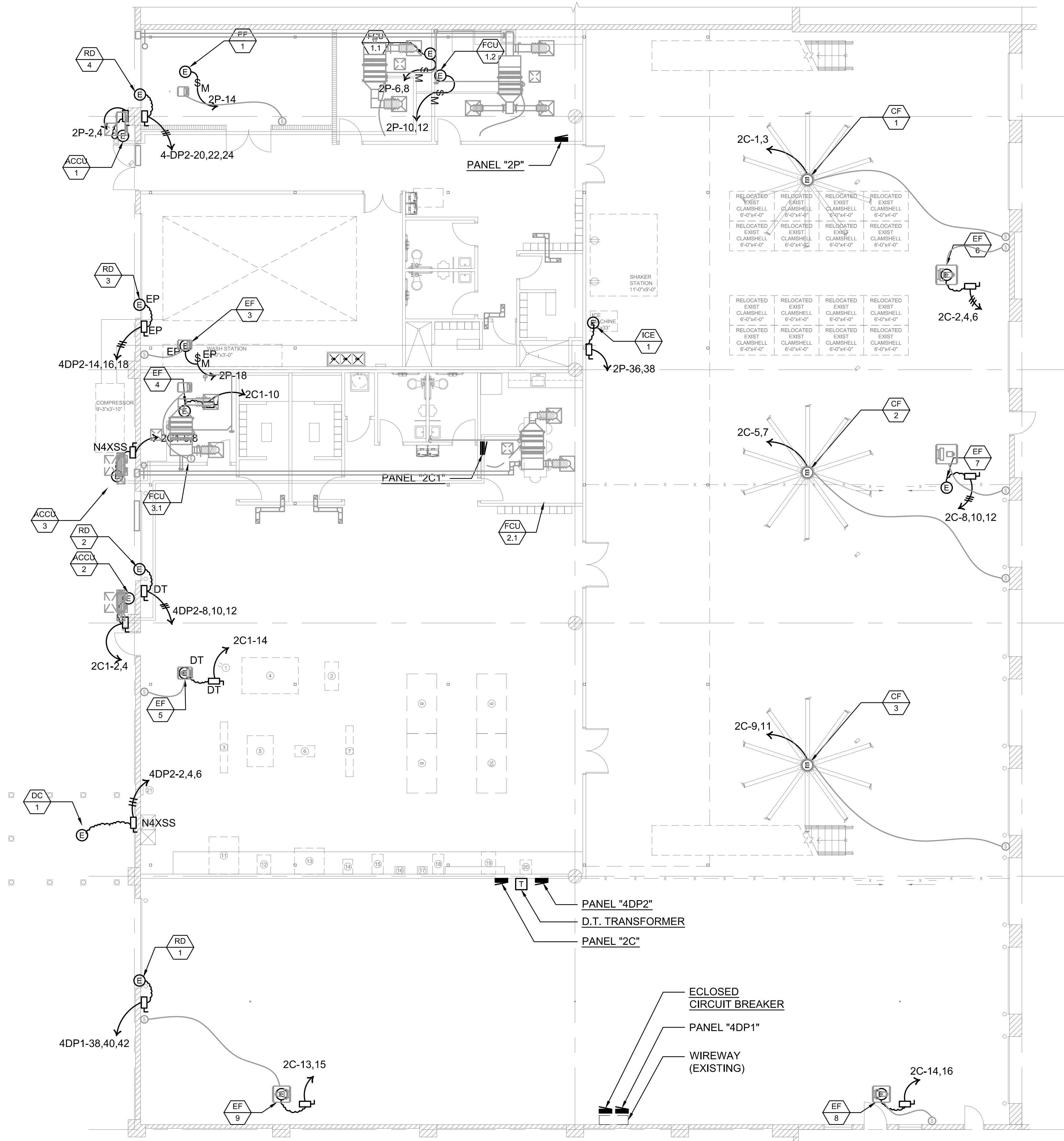
**CO1325-33**

SHEET TITLE:

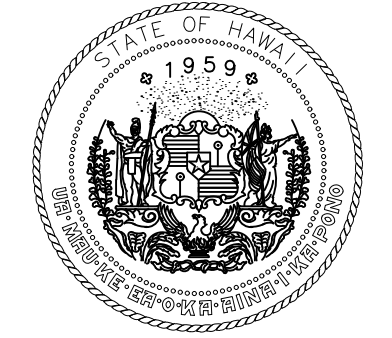
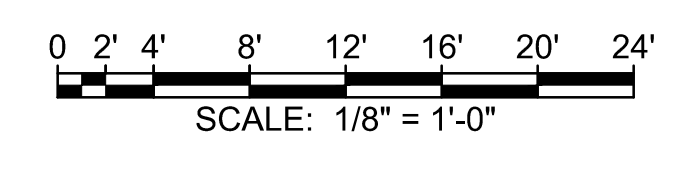
**OVERALL NEW  
LIGHTING PLAN**

DATE :	05/10/23	DWG. NO.	E-102
SHEET :			
69 OF 84 SHEETS			

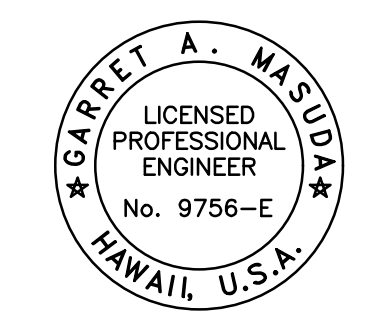
C:\USERS\MARC\DESKTOP\...\_RINGS\2022\2208705-10-2023\MMAE-102.DWG



1 OVERALL NEW MECHANICAL EQUIPMENT PLAN  
 E-103 SCALE: 1/8" = 1'-0"



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 DEPARTMENT OF TRANSPORTATION  
 STATE OF HAWAII



EXP. 4/30/2024

*Garrett A. Masuda*  
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DSGN.	DRWN.	CHKD.	APPD.

NO.	DATE	REVISIONS
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DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
 DANIEL K. INOUE INTERNATIONAL AIRPORT  
 HONOLULU, OAHU, HAWAII

PROJECT NO.:

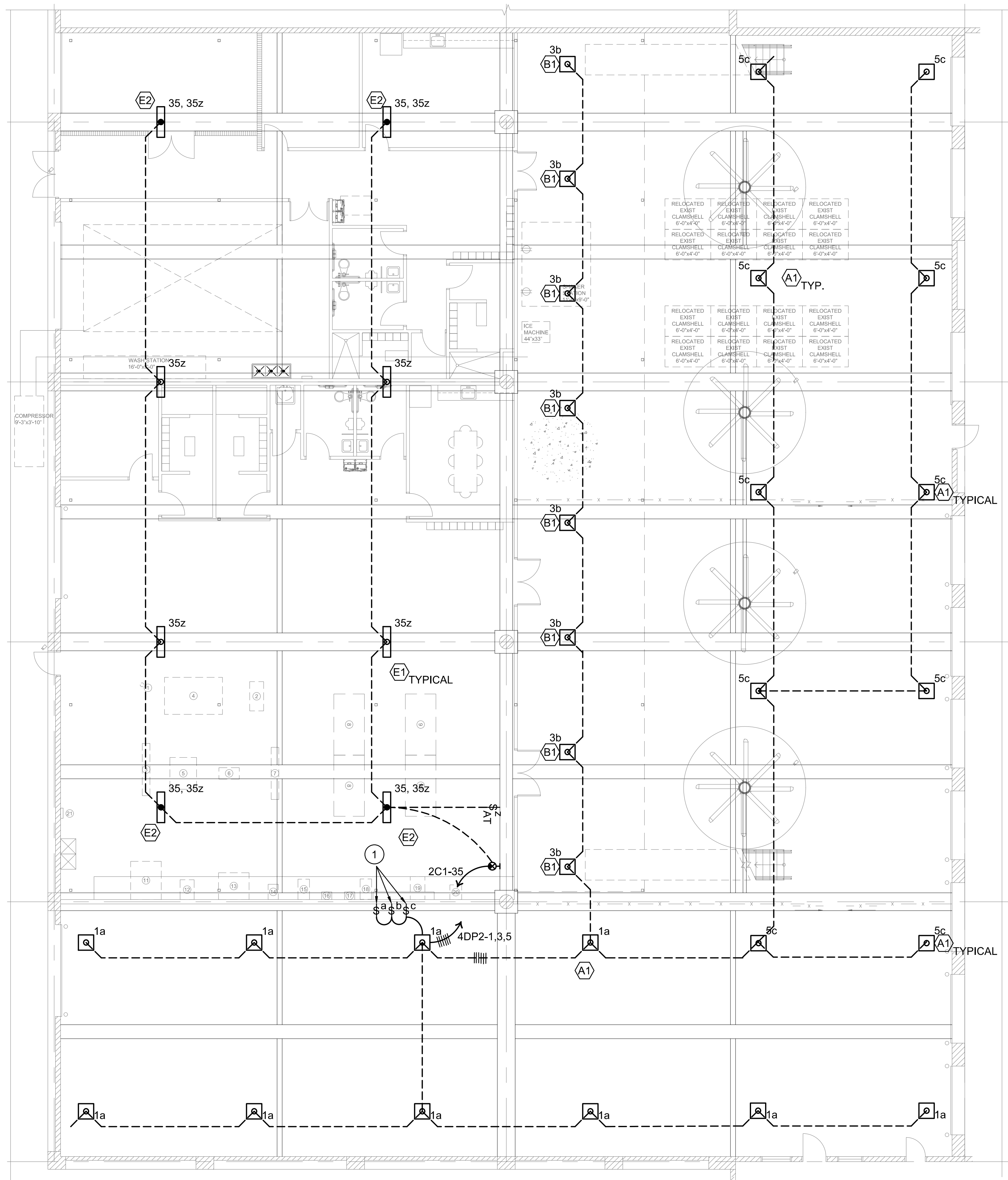
**CO1325-33**

SHEET TITLE:

**OVERALL NEW MECHANICAL EQUIPMENT PLAN**

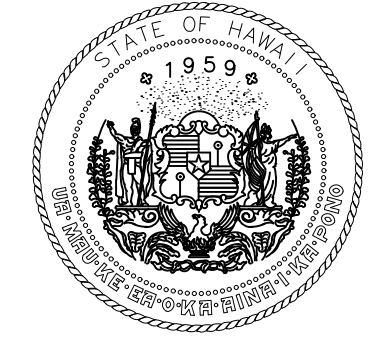
DATE :	DWG. NO.
05/10/23	E-103
SHEET :	
70 OF 84 SHEETS	

C:\USERS\MARC\DESKTOP\d...\_RINGS\2022\228705-10-2023\MMAE-103.DWG

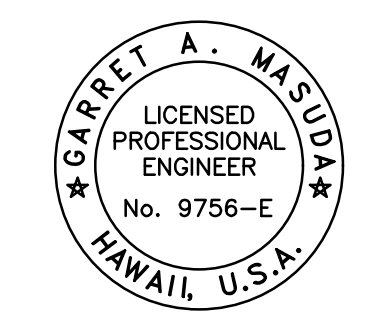


**CONSTRUCTION NOTES**

1 OVERRIDE SWITCHES  
LUMINAIRE TYPE A1 AND B1 HAVE INDIVIDUAL  
OCCUPANCY SENSORS, OVERRIDE SWITCHES  
ARE ONLY FOR LONG PERIODS OF VACANCY.



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PROJECT TITLE :

**CONVERT CARGO BUILDING  
TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**HIGH CEILING  
LIGHTING PLAN -  
NEW WORK**

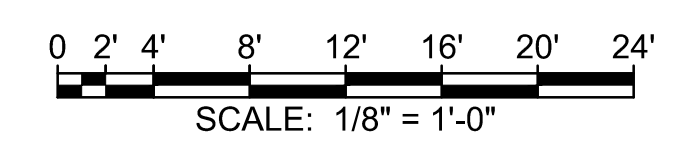
DATE :  
**05/10/23**

SHEET :  
71 OF 84 SHEETS

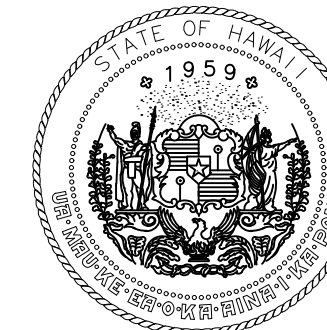
DWG. NO.

**E-104**

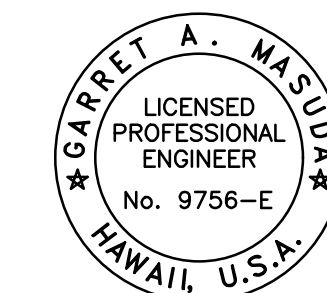
1 **HIGH CEILING LIGHTING PLAN - NEW WORK**  
E-105 SCALE: 1/8" = 1'-0"



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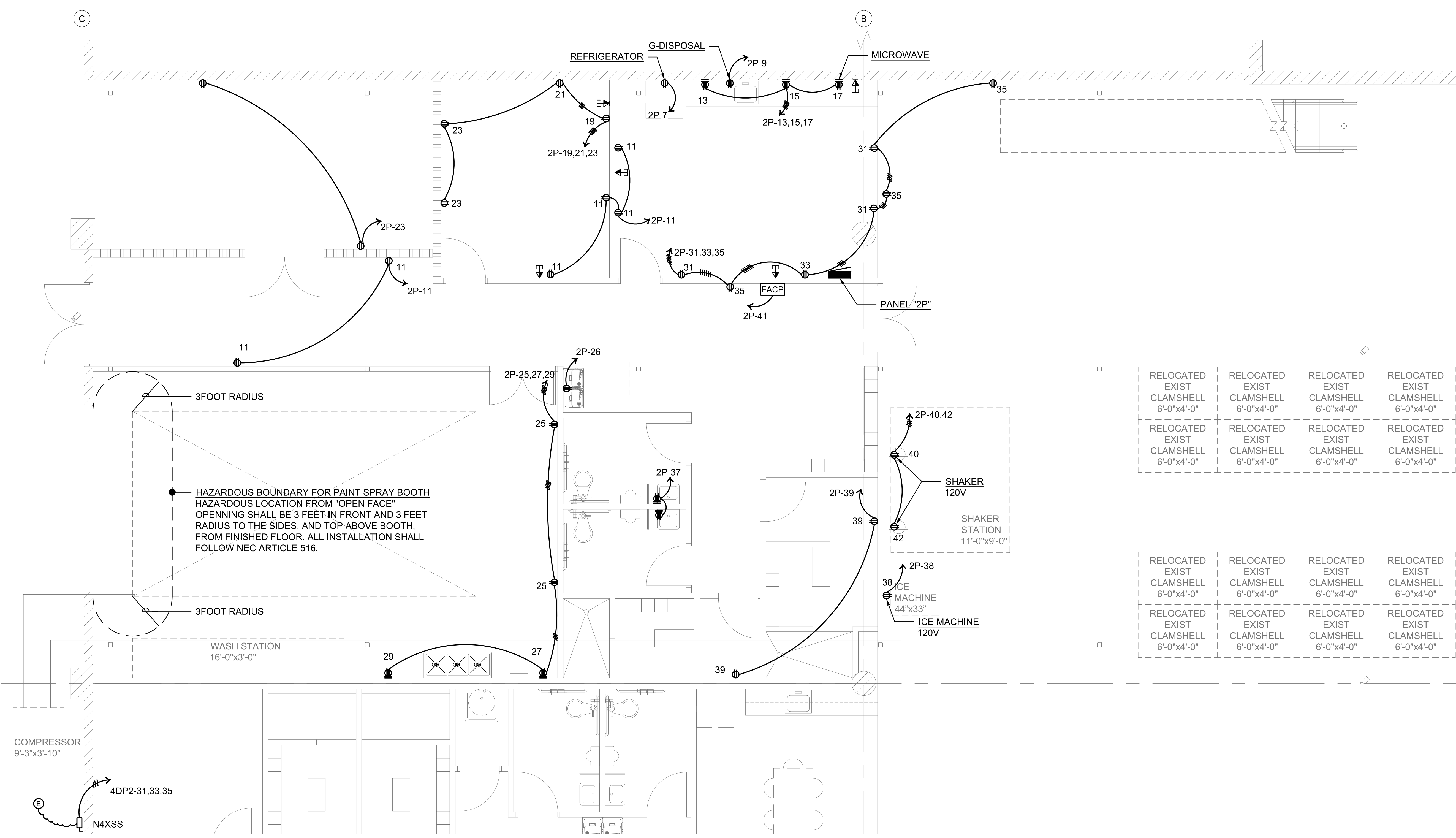
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RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"
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RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"

NO.	DATE	REVISIONS
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DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**PAINT SHOP PLAN -  
NEW ELECTRICAL AND  
TELECOM PLAN**

DATE :

05/10/23

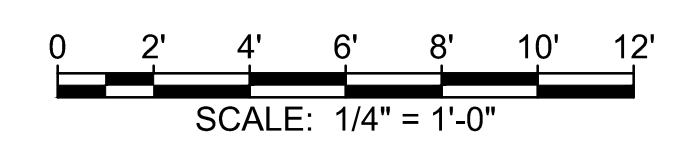
SHEET :

72 OF 84 SHEETS

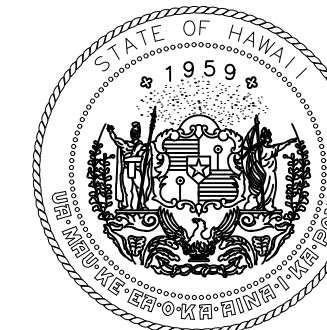
DWG. NO.

**E-201**

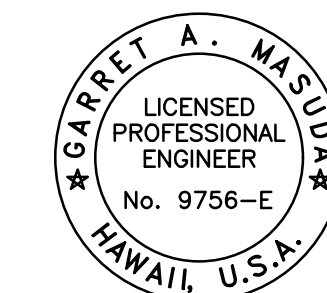
**1 PAINT SHOP PLAN - NEW ELECTRICAL AND TELECOM PLAN**  
E-201 SCALE: 1/4" = 1'-0"



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NO. DATE REVISIONS

DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**PAINT SHOP PLAN -  
NEW LIGHTING PLAN**

DATE :

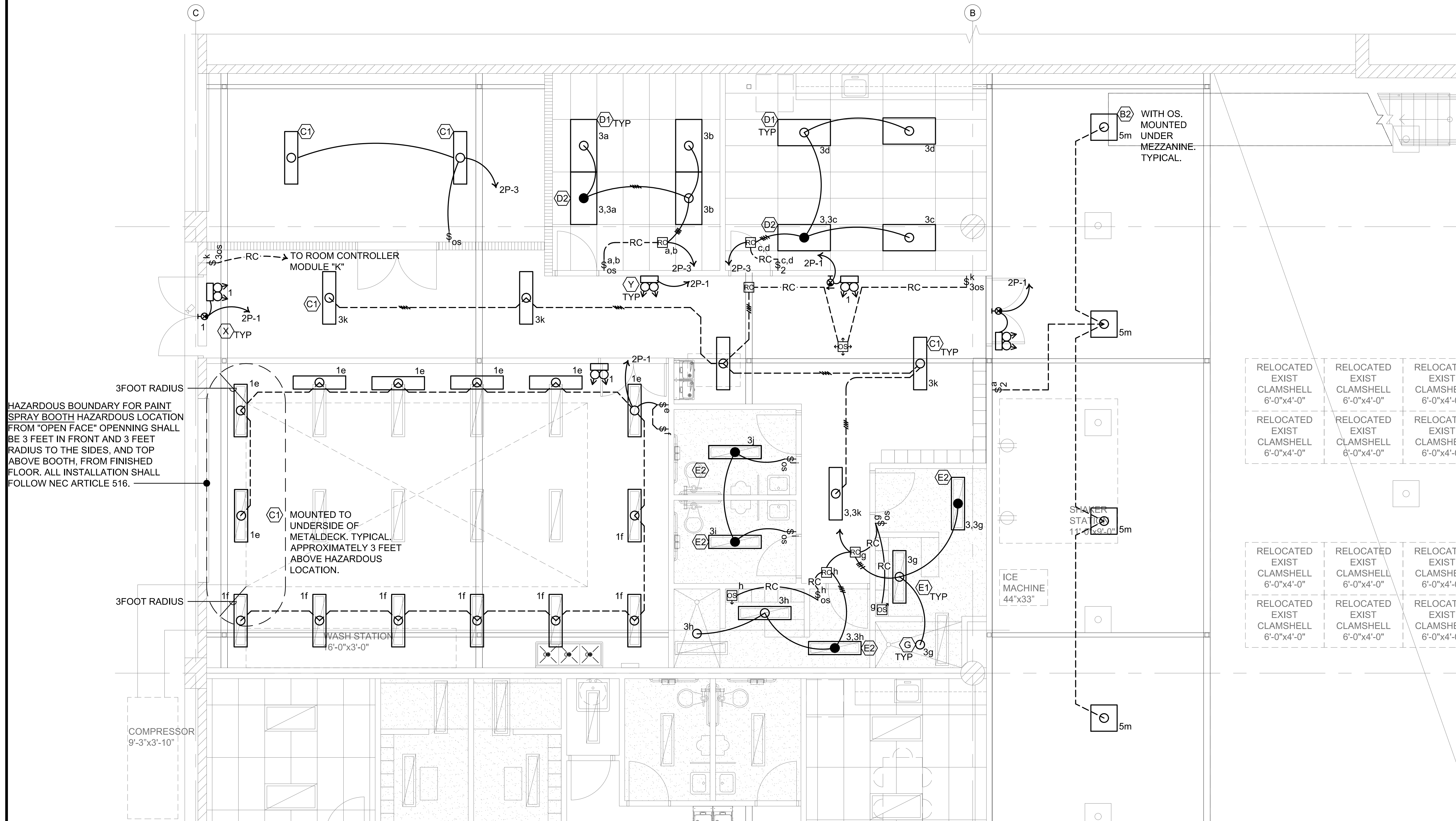
05/10/23

SHEET :

73 OF 84 SHEETS

DWG. NO.

E-202



HAZARDOUS BOUNDARY FOR PAINT SPRAY BOOTH HAZARDOUS LOCATION FROM "OPEN FACE" OPENING SHALL BE 3 FEET IN FRONT AND 3 FEET RADIUS TO THE SIDES, AND TOP ABOVE BOOTH, FROM FINISHED FLOOR. ALL INSTALLATION SHALL FOLLOW NEC ARTICLE 516.

MOUNTED TO UNDERSIDE OF METALDECK. TYPICAL APPROXIMATELY 3 FEET ABOVE HAZARDOUS LOCATION.

WITH OS. MOUNTED UNDER MEZZANINE. TYPICAL.

COMPRESSOR  
9'-3"x3'-10"

WASH STATION  
6'-0"x3'-0"

ICE MACHINE  
44"x33"

SHAKER STATION  
11'-0"x9'-0"

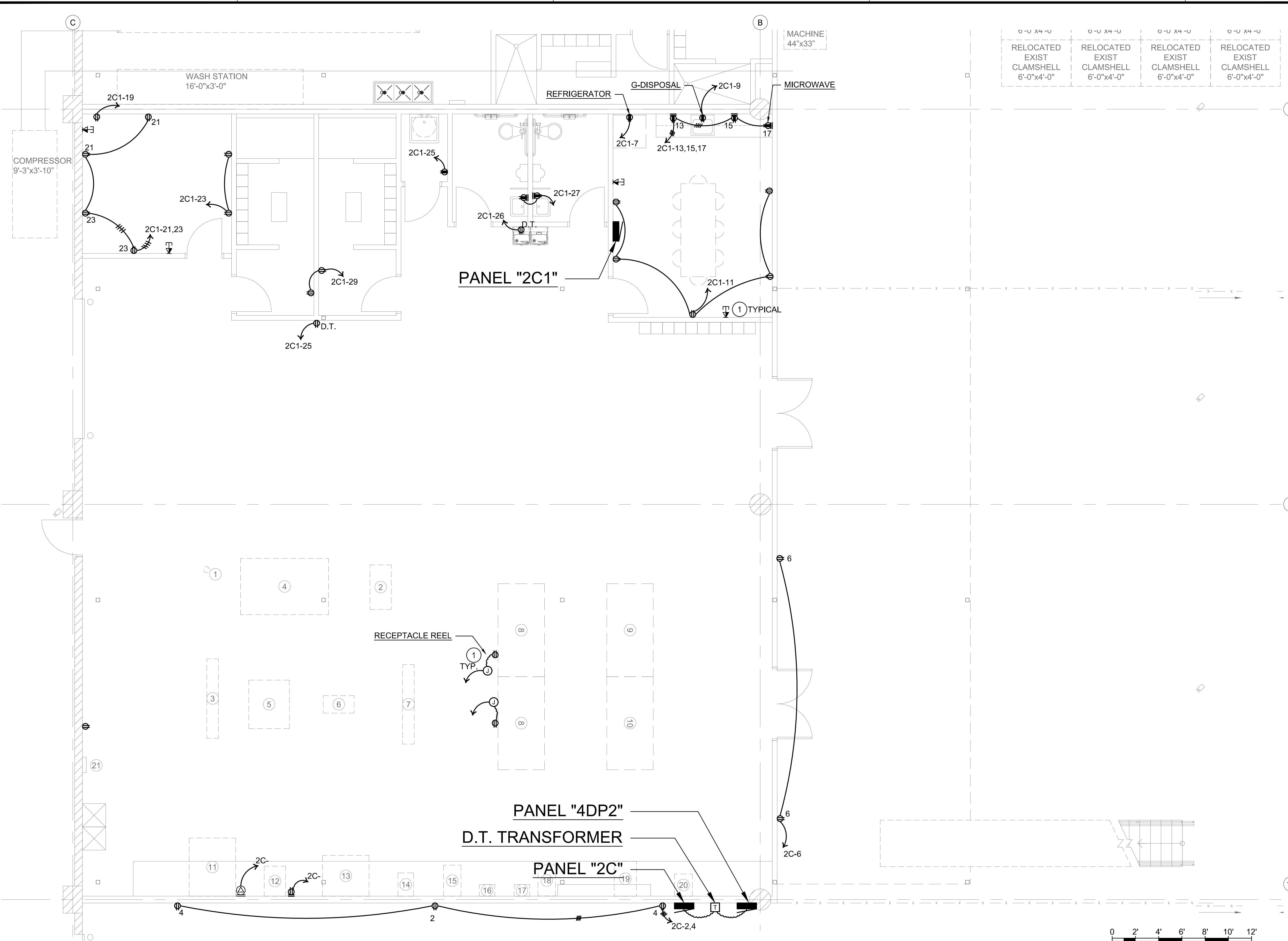
RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"
RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"

RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"
RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"

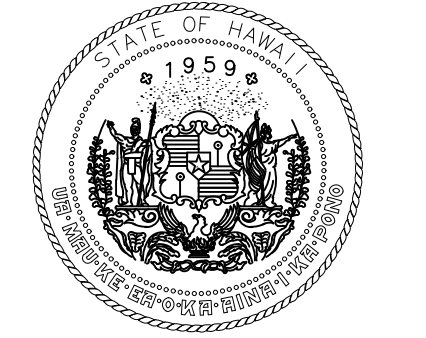
1 PAINT SHOP PLAN - NEW LIGHTING PLAN  
E-202 SCALE: 1/4" = 1'-0"



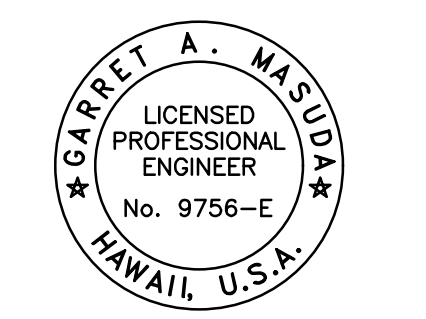
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RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"
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DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



EXP. 4/30/2024

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NO.	DATE	REVISIONS
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DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING  
TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**CARPENTER SHOP  
PLAN - NEW  
ELECTRICAL AND  
TELECOM PLAN**

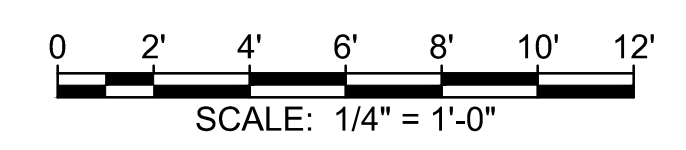
DATE :  
**05/10/23**

SHEET :  
74 OF 84 SHEETS

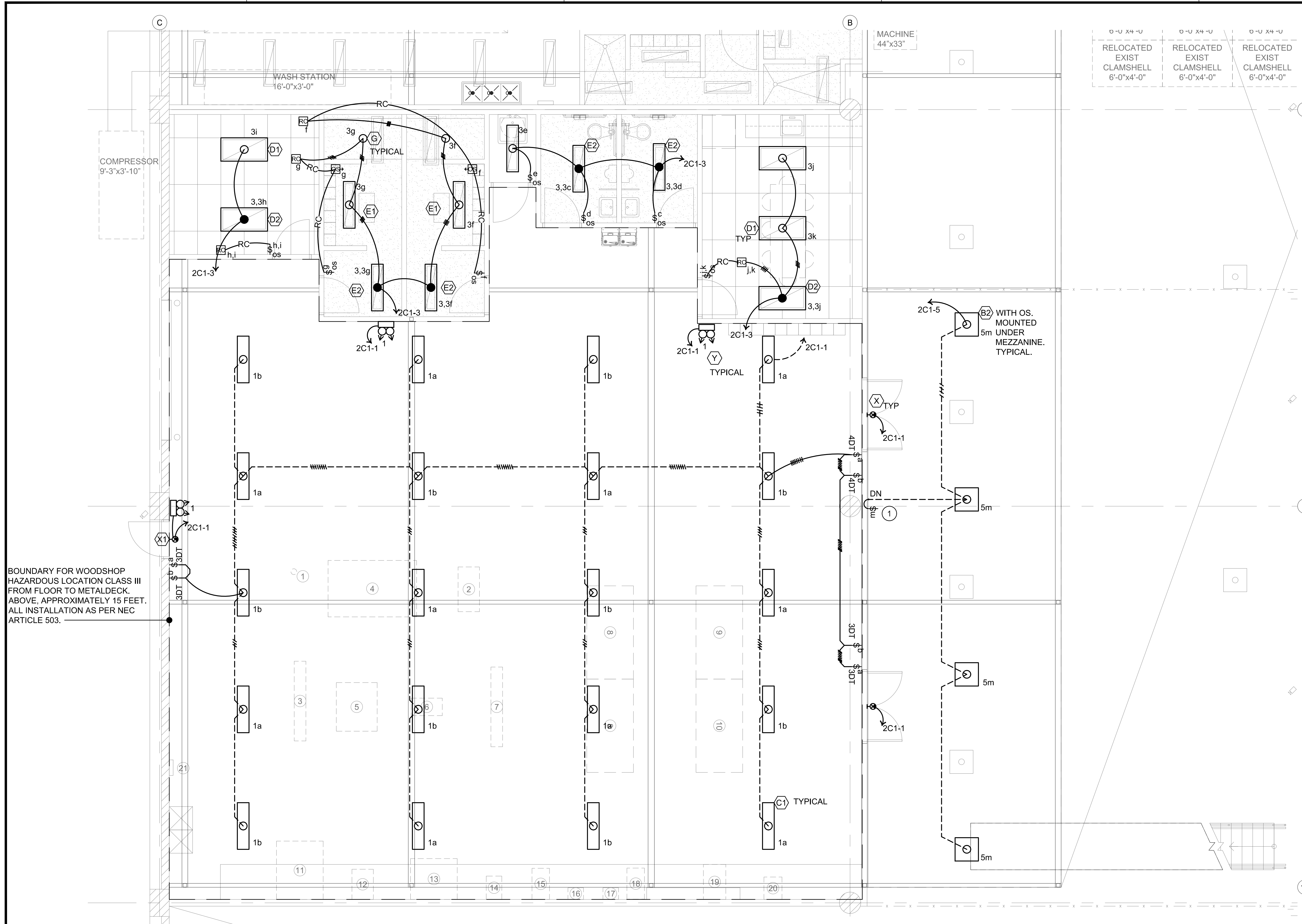
DWG. NO.

**E-203**

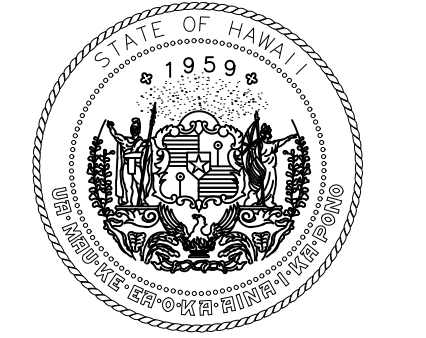
**1** CARPENTER SHOP PLAN - NEW ELECTRICAL AND TELECOM PLAN  
E-203 SCALE: 1/4" = 1'-0"



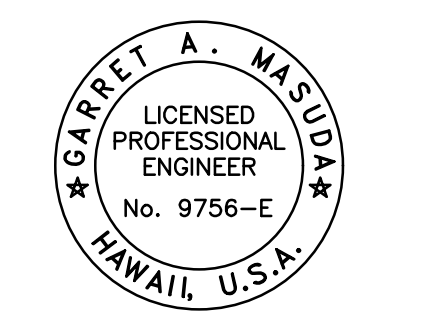
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RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"	RELOCATED EXIST CLAMSHELL 6'-0"x4'-0"
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EXP. 4/30/2024

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DSGN.	DRWN.	CHKD.	APPD.
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NO.	DATE	REVISIONS
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DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**CARPENTER SHOP PLAN - NEW ELECTRICAL AND TELECOM PLAN**

DATE : 05/10/23

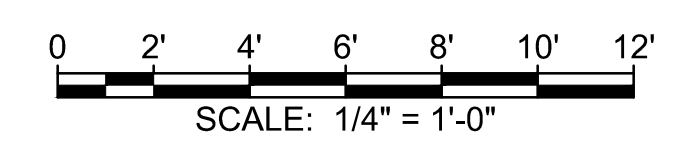
SHEET :

75 OF 84 SHEETS

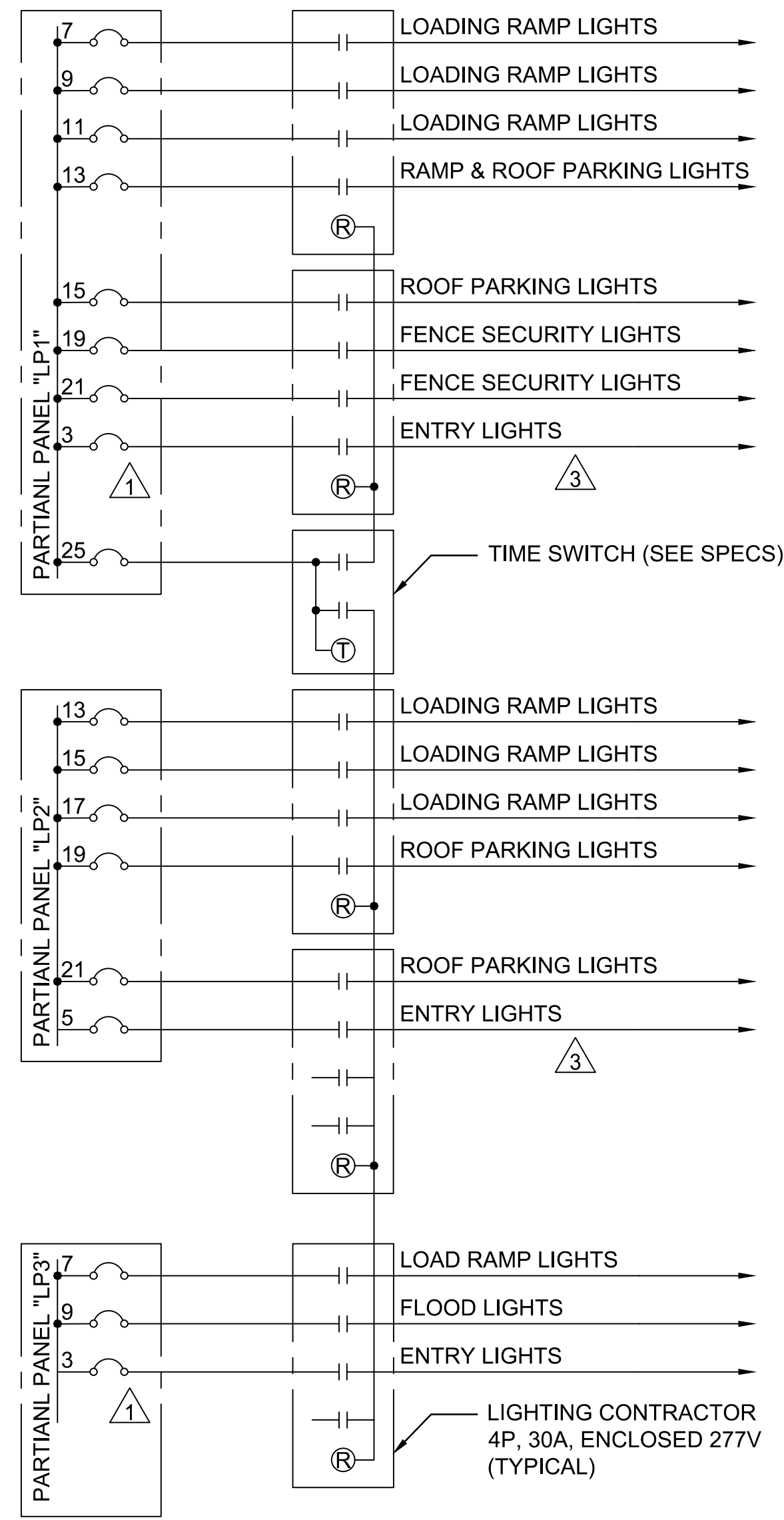
DWG. NO.

**E-204**

**1** CARPENTER SHOP PLAN - NEW ELECTRICAL AND TELECOM PLAN  
E-204 SCALE: 1/4" = 1'-0"

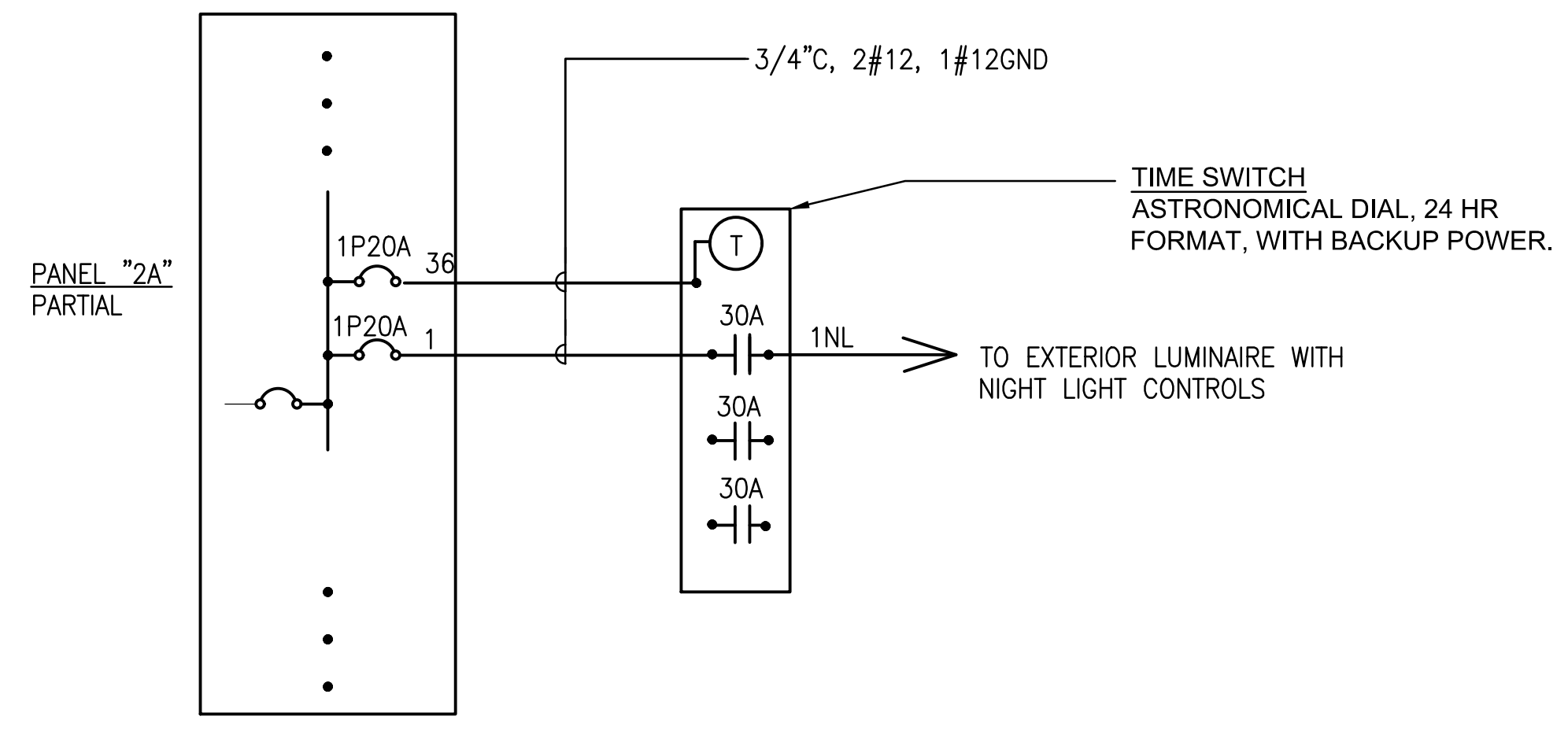


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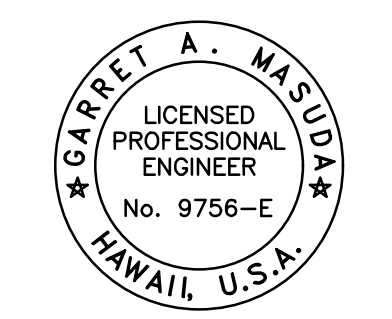


**LIGHTING CONTACTOR DIAGRAM - EXISTING**

NOTE: MAINTAIN EXISTING LUMINAIRES AND LIGHTING CONTROLS



**NIGHT LIGHT CONTROL WIRING DIAGRAM**  
SCALE : NTS



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NO.	DATE	REVISIONS
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DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

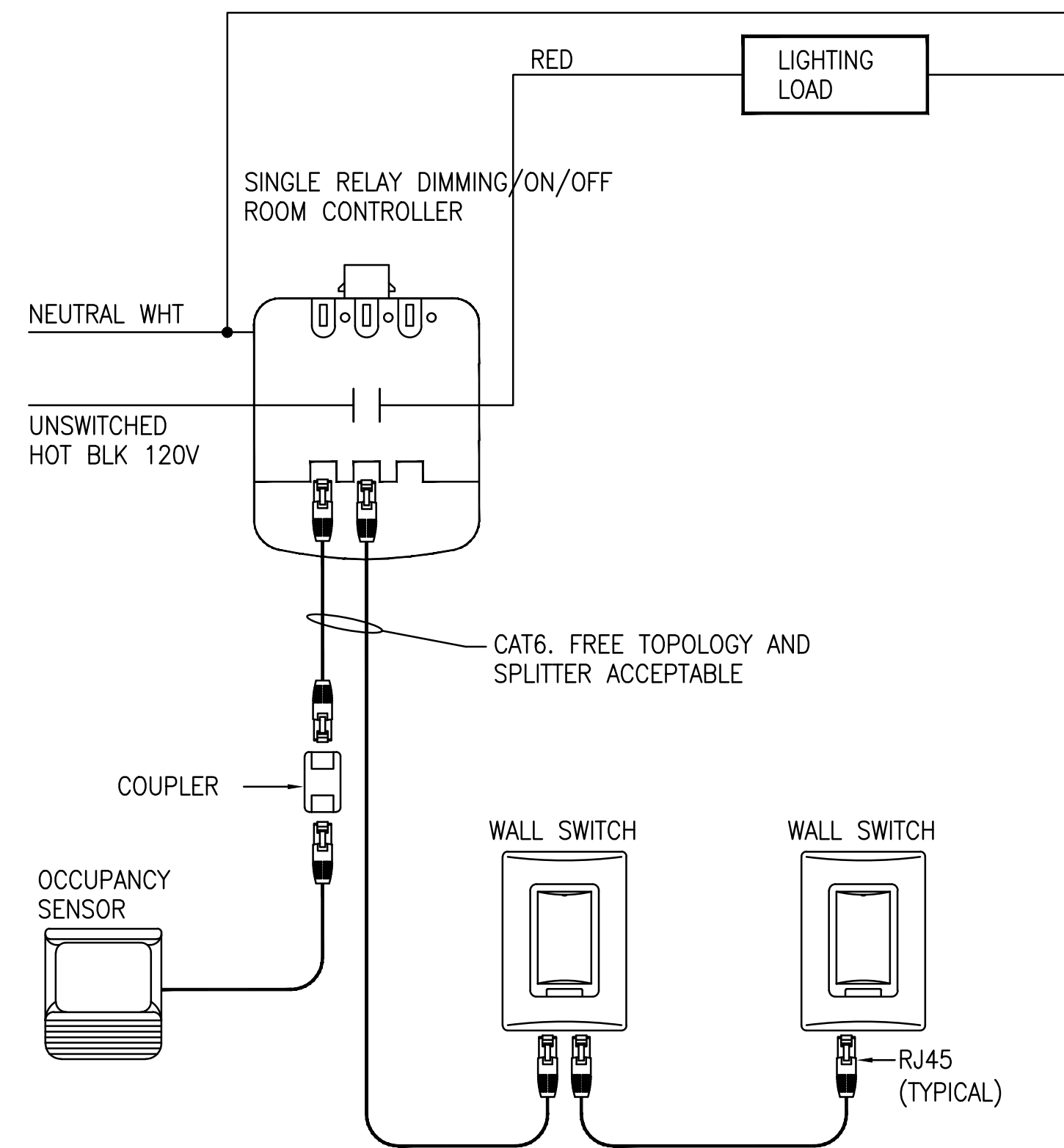
**CO1325-33**

SHEET TITLE:

**LIGHTING CONTROL DETAILS 1**

DATE :	DWG. NO.
05/10/23	
SHEET :	E-501
76 OF 84 SHEETS	

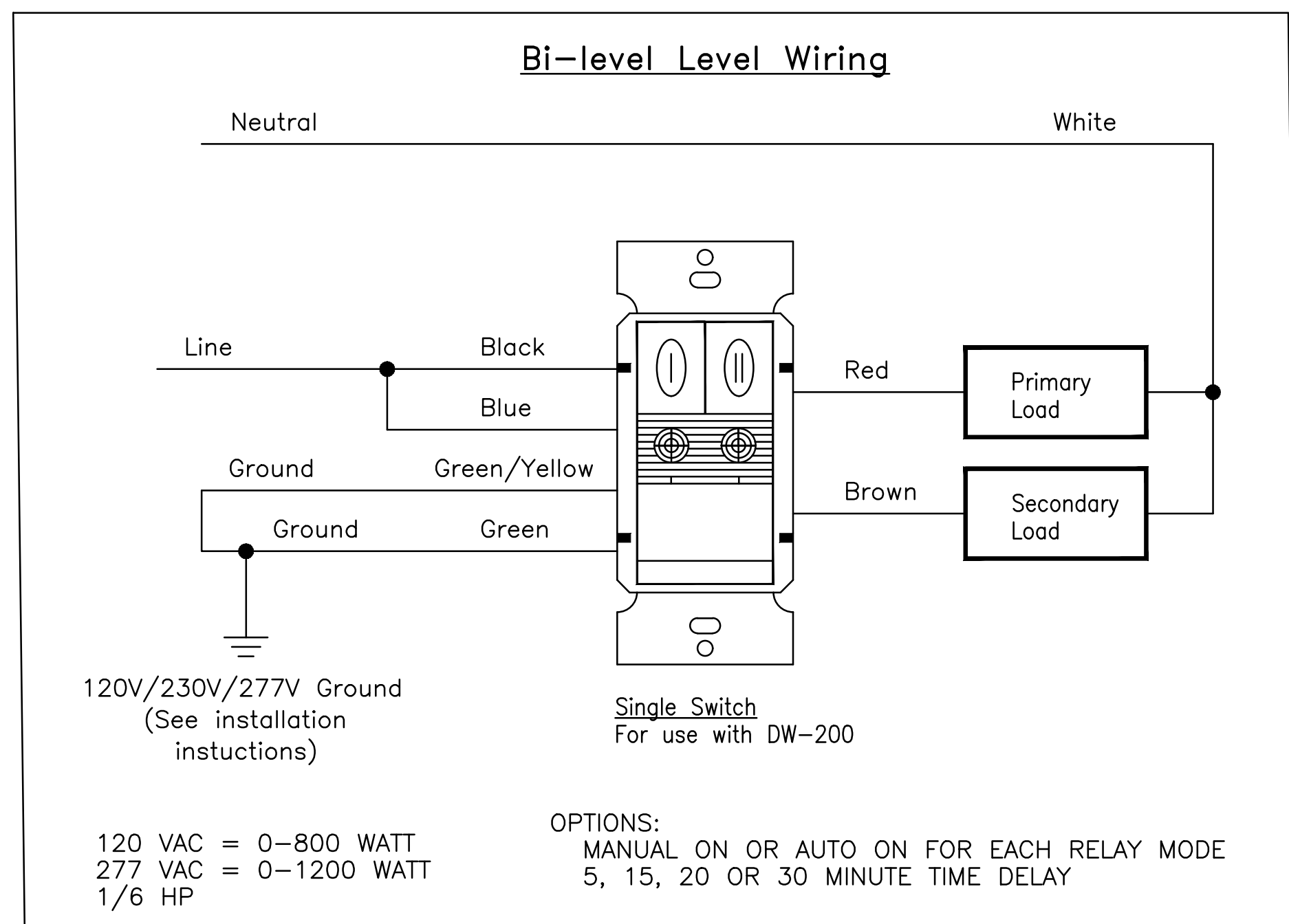
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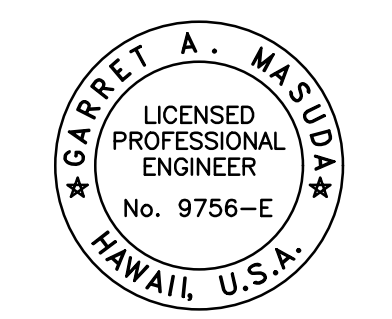
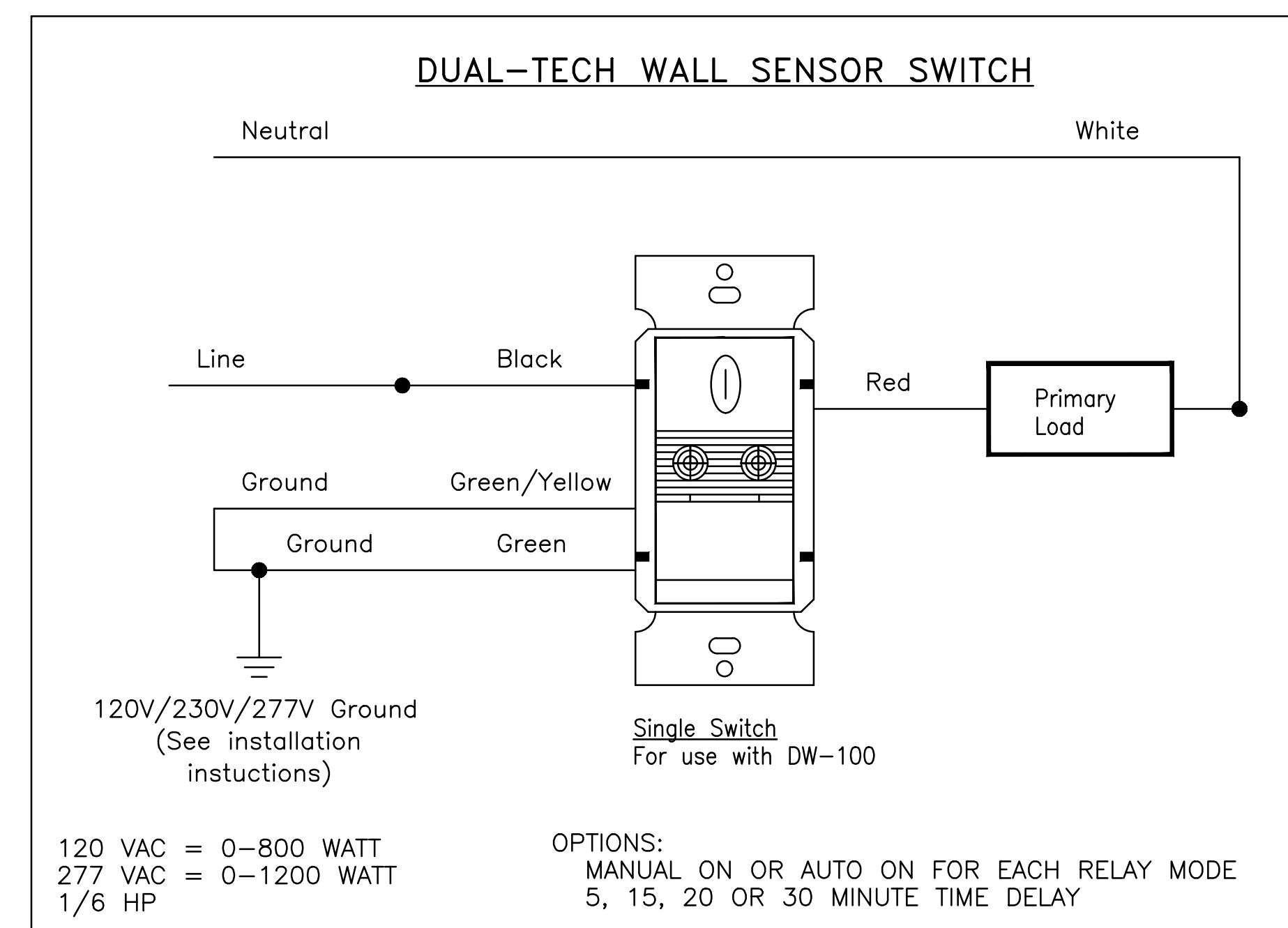
**NOTES:**

1. OCCUPANCY SENSORS SHALL BE SET TO AUTO FOR BASEMENT STORAGE AREA.
2. PROVIDE NON-DIMMING ROOM CONTROLLERS AND OCCUPANCY SENSOR, AND WALL SWITCHES. EXAMPLE FOR BASEMENT STORAGE AREA. NOT SHOWN EXACTLY.

**1 LIGHTING CONTROL WIRING DIAGRAM-TYPICAL**  
E-501 SCALE : NTS



**3 LIGHTING CONTROL WIRING DIAGRAM-SWITCHES**  
E-502 SCALE NTS



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NO.	DATE	REVISIONS

DATE

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AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

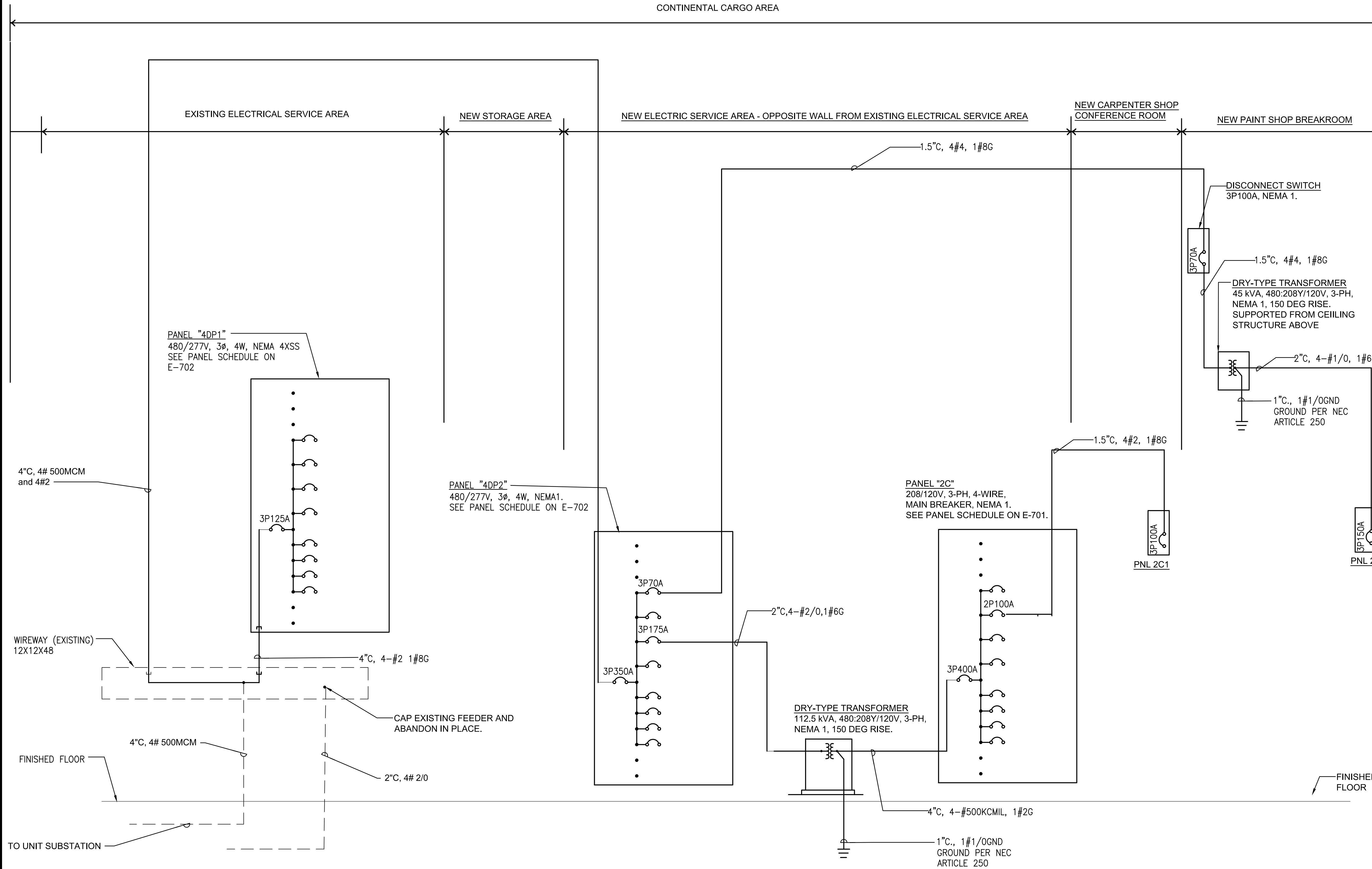
**LIGHTING CONTROL DETAILS 2**

DATE :	DWG. NO.
<b>05/10/23</b>	
SHEET :	<b>E-502</b>
<b>77 OF 84 SHEETS</b>	

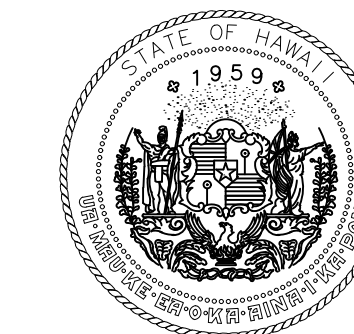
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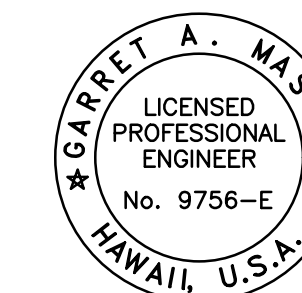
CONTINENTAL CARGO AREA



ONE - LINE DIAGRAM - EXISTING - CONTINENTAL CARGO SPACE - NEW WORK



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EXP. 4/30/2024

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AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**ONE-LINE DIAGRAM  
-CONTINENTAL  
CARGO- NEW WORK**

DATE :

05/10/23

SHEET :

79 OF 84 SHEETS

DWG. NO.

E-602

**PANELBOARD: 2C**

LOCATION: ROOM 231  
 SUPPLY FROM: PANEL 2CH1  
 MOUNTING: SURFACE  
 ENCLOSURE: NEMA 1

VOLTS: 208Y/120  
 PHASES: 3  
 WIRES: 4  
 CABINET WIDTH: 20"

A.I.C RATING: 10,000  
 MAINS TYPE: MAIN BREAKER  
 BUS RATING: 225A  
 MCB RATING: 150A

GND	WIRE	CKT	CIRCUIT DESCRIPTION	ID	TRIP	POLES	A	B	C	POLES	TRIP	ID	CIRCUIT DESCRIPTION	CKT	WIRE	GND
12	12	1	H - CF-1	20	2		1.0	1.2					H - EF-6	2	12	12
12	12	3	H - CF-1	-	-			1.0	1.2				H - EF-6	4	12	12
12	12	5	H - CF-2	20	2				1.0	1.2			H - EF-6	6	12	12
12	12	7	H - CF-2	-	-		1.0	1.1					H - EF-7	8	12	12
12	12	9	H - CF-3	20	2			1.0	1.2				H - EF-7	10	12	12
12	12	11	H - CF-3	-	-				1.0	1.2			H - EF-7	12	12	12
12	10	13	H - EF-9	25	2		1.3	1.3					H - EF-8	14	10	12
12	10	15	H - EF-9	-	-			1.3	1.3				H - EF-8	16	10	12
E	E	17	SPARE	20	1				0.0	0.0			SPARE	18	-	-
E	E	19	SPARE	20	1		0.0	0.0					SPARE	20	-	-
E	E	21	SPARE	20	1			0.0	0.0				SPARE	22	-	-
E	E	23	SPARE	20	1				0.0	0.0			SPARE	24	-	-
E	E	25	PFB	20	1		0.0	0.0					PFB	26	-	-
E	E	27	PFB	20	1			0.0	0.0				PFB	28	-	-
E	E	29	PFB	20	1				0.0	0.0			PFB	30	-	-
E	E	31	PFB	30	2		0.0	0.0					PFB	32	-	-
E	E	33	PFB	-	-			0.0	0.0				PFB	34	-	-
-	-	35	PFB	-	-				0.0	0.0			PFB	36	-	-
E	E	37	O - PANEL 2C1	100	3		12.0	0.0					PFB	38	-	-
E	E	39	O - PANEL 2C1	-	-			12.0	0.0				PFB	40	-	-
E	E	41	O - PANEL 2C1	-	-				12.0	0.0			PFB	42	-	-
							<b>TOTAL LOAD:</b>	19.0 KVA	19.0 KVA	16.4 KVA						
							<b>TOTAL AMPS:</b>	52.7 A	52.8 A	45.6 A						

**ID LEGEND:**

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	PANEL TOTALS
LIGHTING	0.0 KVA	100.0%	0.0 KVA	
RECEPTACLES	0.0 KVA	#DIV/0!	0.0 KVA	<b>TOTAL CONNECTED LOAD:</b> 54.4 KVA
HVAC	18.4 KVA	100.0%	18.4 KVA	<b>TOTAL DEMAND LOAD:</b> 54.4 KVA
MOTOR LOAD	0.0 KVA	100.0%	0.0 KVA	<b>TOTAL CONNECTED CURRENT:</b> 151.0 A
FIRE ALARM	0.0 KVA	100.0%	0.0 KVA	<b>TOTAL DEMAND CURRENT:</b> 151.0 A
KITCHEN EQUIPMENT	0.0 KVA	65.0%	0.0 KVA	
OTHER LOADS	36.0 KVA	100.0%	36.0 KVA	

NOTES:

**PANELBOARD: 2C1**

LOCATION: ROOM 231  
 SUPPLY FROM: PANEL 2CH1  
 MOUNTING: RECESSED  
 ENCLOSURE: NEMA 1

VOLTS: 208Y/120  
 PHASES: 3  
 WIRES: 4  
 CABINET WIDTH: 20"

A.I.C RATING: 10,000  
 MAINS TYPE: MAIN BREAKER  
 BUS RATING: 225A  
 MCB RATING: 125A

GND	WIRE	CKT	CIRCUIT DESCRIPTION	ID	TRIP	POLES	A	B	C	POLES	TRIP	ID	CIRCUIT DESCRIPTION	CKT	WIRE	GND
12	12	1	L - CARPENTER WORK /EXIT/EMER	20	1		1.6	1.2					H - ACCU2	2	12	12
12	12	3	L - OFFICE/RESTROOM/LOCKER	20	1			0.5	1.2				H - ACCU2	4	12	12
12	12	5	L - BELOW MEZZANINE	20	1				0.3	1.2			H - ACCU3	6	12	12
12	12	7	R - REFRIG	G	20	1	1.0	1.2					H - ACCU3	8	12	12
12	12	9	R - G. DISPOSAL	20	1			1.0	0.5				H - EF4	10	12	12
12	12	11	R - CONV - 5R	20	1				1.0	1.0			SPARE	12	-	-
12	12	13	R - COUNTER 1	20	1		1.0	1.4					H - EF5	14	12	12
12	12	15	R - COUNTER 2	20	1			1.0	0.0				SPARE	16	-	-
12	12	17	R - MICROWAVE	20	1				1.5	0.0			SPARE	18	-	-
12	12	19	R - COMPUTER	20	1		1.0	0.0					PFB	20	-	-
12	12	21	R - OFFICE	20	1			1.0	4.2				O - IWH2	22	8	10
12	12	23	R - CONV - OFFICE - 4R	20	1				0.8	4.2			O - IWH2	24	8	10
12	12	25	R - CONV - 1R / JANITOR	20	1		0.4	1.0					R - EWC	26	12	12
12	12	27	R - RESTRM GFCI	20	1			1.0	0.0				SPARE	28	-	-
12	12	29	R - LOCKER 2R	20	1				1.0	0.0			SPARE	30	-	-
12	12	31	SPARE	20	1		0.0	0.0					SPARE	32	-	-
12	12	33	SPARE	20	1			0.0	0.0				SPARE	34	-	-
12	12	35	L - AREA ABOVE MEZZ	20	1				0.3	0.0			SPARE	36	-	-
12	12	37	SPARE	20	1		0.0	0.0					SPARE	38	-	-
12	12	39	SPARE	20	1			0.0	0.0				SPARE	40	-	-
12	12	41	SPARE	20	1				0.0	0.0			SPARE	42	-	-
							<b>TOTAL LOAD:</b>	9.8 KVA	10.4 KVA	11.3 KVA						
							<b>TOTAL AMPS:</b>	27.1 A	28.9 A	31.4 A						

**ID LEGEND:**

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	PANEL TOTALS
LIGHTING	2.7 KVA	100.0%	2.7 KVA	
RECEPTACLES	12.7 KVA	89.4%	11.4 KVA	<b>TOTAL CONNECTED LOAD:</b> 31.5 KVA
HVAC	6.7 KVA	100.0%	6.7 KVA	<b>TOTAL DEMAND LOAD:</b> 29.2 KVA
MOTOR LOAD	0.0 KVA	100.0%	0.0 KVA	<b>TOTAL CONNECTED CURRENT:</b> 87.4 A
FIRE ALARM	0.0 KVA	100.0%	0.0 KVA	<b>TOTAL DEMAND CURRENT:</b> 80.9 A
KITCHEN EQUIPMENT	0.0 KVA	65.0%	0.0 KVA	
OTHER LOADS	8.4 KVA	100.0%	8.4 KVA	

NOTES:

**PANELBOARD: 2P**

LOCATION: ROOM 231  
 SUPPLY FROM: PANEL 2CH1  
 MOUNTING: RECESSED  
 ENCLOSURE: NEMA 1

VOLTS: 208Y/120  
 PHASES: 3  
 WIRES: 4  
 CABINET WIDTH: 20"

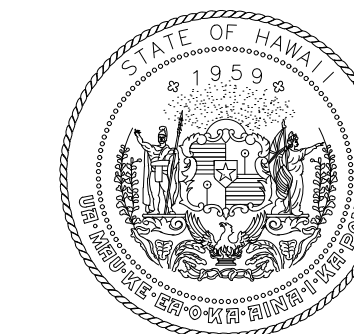
A.I.C RATING: 10,000  
 MAINS TYPE: MAIN BREAKER  
 BUS RATING: 225A  
 MCB RATING: 150A

GND	WIRE	CKT	CIRCUIT DESCRIPTION	ID	TRIP	POLES	A	B	C	POLES	TRIP	ID	CIRCUIT DESCRIPTION	CKT	WIRE	GND
12	12	1	L - PAINT SPRAY BOOTH/EXIT/EMER	20	1		1.3	2.0					H - ACCU1	2	6	10
12	12	3	L - OFFICE/RESTROOM/LOCKER	20	1			1.1	2.0				H - ACCU1	4	6	10
12	12	5	L - BELOW MEZZANINE	20	1				0.3	0.1			H - FCU 1.1	6	12	12
12	12	7	R - REFRIG	G	20	1	1.0	0.1					H - FCU 1.1	8	12	12
12	12	9	R - G. DISPOSAL	20	1			1.0	0.1				H - FCU 1.2	10	12	12
12	12	11	R - CONV - 6R	20	1				1.2	0.1			H - FCU 1.2	12	12	12
12	12	13	R - COUNTER 1	20	1		1.0	0.5					H - EF1	14	12	12
12	12	15	R - COUNTER 2	20	1			1.0	0.0				PFB	16	-	-
12	12	17	R - MICROWAVE	20	1				1.5	0.5			H - EF3	18	12	12
12	12	19	R - COMPUTER	20	1		1.0	0.0					PFB	20	-	-
12	12	21	R - OFFICE	20	1			1.0	4.2				O - IWH1	22	8	10
12	12	23	R - CONV - OFFICE - 4R	20	1				0.8	4.2			O - IWH1	24	8	10
12	12	25	R - CONV - PAINT BOOTH2R	20	1		0.4	1.0					R - EWC	26	12	12
12	12	27	R - PAINT BOOTH WORK AREA	20	1			1.0	0.0				PFB	28	-	-
12	12	29	R - PAINT BOOTH WORK AREA	20	1				1.0	0.0			SPARE	30	-	-
12	12	31	R - CONV - 3R	20	1		0.6	0.0					SPARE	32	-	-
12	12	33	R - TV	20	1			1.0	0.0				SPARE	34	-	-
12	12	35	R - CONV 3R	20	1				0.6	1.0			PFB (POSSIBLE FOR 2P ICE MACH)	36	12	12
12	12	37	R - RESTRM GFCI	20	1		0.4	1.0					R - ICE MACHINE	38	12	12
12	12	39	R - LOCKER 2R	20	1			0.4	1.0				R - SHAKER 1	40	12	12
12	12	41	F - FACP - RED CIRCUIT BREAKER	20	1				1.2	1.0			R - SHAKER 2	42	12	12
							<b>TOTAL LOAD:</b>	10.3 KVA	13.8 KVA	13.1 KVA						
							<b>TOTAL AMPS:</b>	28.5 A	38.2 A	36.4 A						

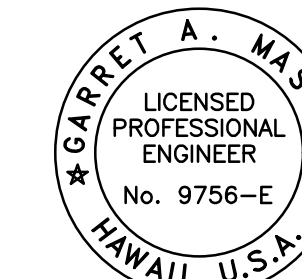
**ID LEGEND:**  
 \*G DENOTES GFCI BREAKER

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	PANEL TOTALS
LIGHTING	2.4 KVA	100.0%	2.4 KVA	
RECEPTACLES	18.9 KVA	76.5%	14.5 KVA	<b>TOTAL CONNECTED LOAD:</b> 37.1 KVA
HVAC	5.2 KVA	100.0%	5.2 KVA	<b>TOTAL DEMAND LOAD:</b> 31.7 KVA
MOTOR LOAD	0.0 KVA	100.0%	0.0 KVA	<b>TOTAL CONNECTED CURRENT:</b> 103.0 A
FIRE ALARM	1.2 KVA	100.0%	1.2 KVA	<b>TOTAL DEMAND CURRENT:</b> 87.9 A
KITCHEN EQUIPMENT	0.0 KVA	65.0%	0.0 KVA	
OTHER LOADS	8.4 KVA	100.0%	8.4 KVA	

NOTES:



Airports Division  
 DEPARTMENT OF TRANSPORTATION  
 STATE OF HAWAII



EXP. 4/30/2024

*Garrett A. Masuda*  
 This work was prepared by me or under my supervision.

DSGN. DRWN. CHKD. APPD.

NO. DATE REVISIONS

DATE

PROJECT TITLE :

CONVERT CARGO BUILDING  
 TO WORKSHOP

AT  
 DANIEL K. INOUE INTERNATIONAL AIRPORT  
 HONOLULU, OAHU, HAWAII

PROJECT NO.:

CO1325-33

SHEET TITLE:

ELECTRICAL  
 PANEL SCHEDULE

DATE : DWG. NO.

05/10/23

SHEET : E-701

80 OF 84 SHEETS

**PANELBOARD: 4DP2**

LOCATION: ROOM 231  
 SUPPLY FROM: PANEL 2CH1  
 MOUNTING: SURFACE  
 ENCLOSURE: NEMA 1

VOLTS: 480Y/277  
 PHASES: 3  
 WIRES: 4  
 CABINET WIDTH: 20"

A.I.C RATING: 35,000  
 MAINS TYPE: MAIN BREAKER  
 BUS RATING: 400A  
 MCB RATING: 300A

GND	WIRE	CKT	CIRCUIT DESCRIPTION	ID	TRIP	POLES	A	B	C	POLES	TRIP	ID	CIRCUIT DESCRIPTION	CKT	WIRE	GND
12	12	1	L - STORAGE 1		20	1	0.9	18.0					M - DUST COLLECTOR	2	2	8
12	12	3	L - MEZZANINE		20	1		0.4	18.0				M - DUST COLLECTOR	4	2	8
12	12	5	L - STORAGE 2		20	1			0.9	18.0			M - DUST COLLECTOR	6	2	8
-	-	7	SPARE		20	1	1.3	2.0					M - ROLL-UP DOOR 2	8	12	12
-	-	9	SPARE		20	1		1.3	2.0				M - ROLL-UP DOOR 2	10	12	12
-	-	11	SPARE		20	1			1.3	2.0			M - ROLL-UP DOOR 2	12	12	12
-	-	13	SPARE		20	1	1.3	2.0					M - ROLL-UP DOOR 3	14	12	12
-	-	15	SPARE		20	1		1.3	2.0				M - ROLL-UP DOOR 3	16	12	12
-	-	17	SPARE		20	1			1.3	2.0			M - ROLL-UP DOOR 3	18	12	12
-	-	19	PFB		-	-	0.0	2.0					M - ROLL-UP DOOR 4	20	12	12
-	-	21	PFB		-	-		0.0	2.0				M - ROLL-UP DOOR 4	22	12	12
-	-	23	PFB		-	-			0.0	2.0			M - ROLL-UP DOOR 4	24	12	12
-	-	25	PFB		-	-	0.0	0.0					PFB	26	-	-
-	-	27	PFB		-	-		0.0	0.0				PFB	28	-	-
-	-	29	PFB		-	-			0.0	0.0			PFB	30	-	-
-	-	31	PFB		-	-	0.0	0.0					PFB	32	-	-
-	-	33	PFB		-	-		0.0	0.0				PFB	34	-	-
-	-	35	PFB		-	-			0.0	0.0			PFB	36	-	-
8	4	37	O - PANEL 2P		70	3	15.0	37.5					O - PANEL 2C	38	2/0	6
8	4	39	O - PANEL 2P		-	-		15.0	37.5				O - PANEL 2C	40	2/0	6
8	4	41	O - PANEL 2P		-	-			15.0	37.5			O - PANEL 2C	42	2/0	6
							<b>TOTAL LOAD:</b>	80.0 KVA	79.6 KVA	80.0 KVA						
							<b>TOTAL AMPS:</b>	96.3 A	95.7 A	96.3 A						

ID LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	PANEL TOTALS
LIGHTING	2.2 KVA	100.0%	2.2 KVA	
RECEPTACLES	0.0 KVA	#DIV/0!	0.0 KVA	<b>TOTAL CONNECTED LOAD:</b> 239.6 KVA
HVAC	0.0 KVA	100.0%	0.0 KVA	<b>TOTAL DEMAND LOAD:</b> 231.7 KVA
MOTOR LOAD	72.0 KVA	100.0%	72.0 KVA	<b>TOTAL CONNECTED CURRENT:</b> 288.3 A
FIRE ALARM	0.0 KVA	100.0%	0.0 KVA	<b>TOTAL DEMAND CURRENT:</b> 278.7 A
KITCHEN EQUIPMENT	0.0 KVA	65.0%	0.0 KVA	
OTHER LOADS	157.5 KVA	100.0%	157.5 KVA	

NOTES:

**PANELBOARD: 4DP1**

LOCATION: ROOM 231  
 SUPPLY FROM: PANEL 2CH1  
 MOUNTING: SURFACE  
 ENCLOSURE: NEMA 1

VOLTS: 480Y/277  
 PHASES: 3  
 WIRES: 4  
 CABINET WIDTH: 20"

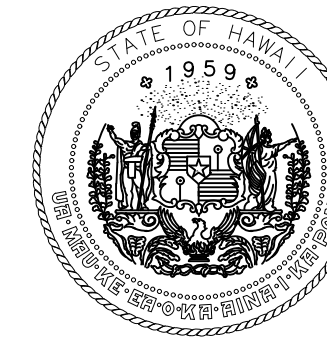
A.I.C RATING: 35,000  
 MAINS TYPE: MAIN BREAKER  
 BUS RATING: 225A  
 MCB RATING: 100A

GND	WIRE	CKT	CIRCUIT DESCRIPTION	ID	TRIP	POLES	A	B	C	POLES	TRIP	ID	CIRCUIT DESCRIPTION	CKT	WIRE	GND
12	12	1	L - EXISTING FROM DP1 CKT 21		20	1	2.0	2.4					L - EXISTING FROM LP1 CKT 2	2	12	12
12	12	3	SPARE		20	1		0.0	1.1				L - EXISTING FROM LP1 CKT 4	4	12	12
12	12	5	SPARE		20	1			0.0	2.4			L - EXISTING FROM LP1 CKT 6	6	12	12
12	12	7	L - EXISTING FROM LP1 - LOAD RAMF		20	1	0.7	0.0					SPARE	8	-	-
12	12	9	L - EXISTING FROM LP1 - LOAD RAMF		20	1		1.1	0.0				SPARE	10	-	-
12	12	11	L - EXISTING FROM LP1 - LOAD RAMF		20	1			1.1	0.0			PFB	12	-	-
-	-	13	SPARE		20	1	0.0	0.0					PFB	14	-	-
-	-	15	SPARE		20	1		0.0	0.0				PFB	16	-	-
-	-	17	PFB		-	-			0.0	0.0			PFB	18	-	-
-	-	19	PFB		-	-	0.0	0.0					PFB	20	-	-
-	-	21	PFB		-	-		0.0	0.0				PFB	22	-	-
-	-	23	PFB		-	-			0.0	0.0			PFB	24	-	-
-	-	25	PFB		-	-	0.0	0.0					PFB	26	-	-
-	-	27	PFB		-	-		0.0	0.0				PFB	28	-	-
-	-	29	PFB		-	-			0.0	0.0			PFB	30	-	-
-	-	31	PFB		-	-	0.9	0.0					PFB	32	-	-
-	-	33	PFB		-	-		0.9	0.0				PFB	34	-	-
-	-	35	PFB		-	-			0.0	0.0			PFB	36	-	-
-	-	37	PFB		-	-	0.0	2.0					M - ROLL-UP DOOR 1	38	12	12
-	-	39	PFB		-	-		0.0	2.0				M - ROLL-UP DOOR 1	40	12	12
-	-	41	PFB		-	-			0.0	2.0			M - ROLL-UP DOOR 1	42	12	12
							<b>TOTAL LOAD:</b>	8.0 KVA	5.0 KVA	5.5 KVA						
							<b>TOTAL AMPS:</b>	9.7 A	6.0 A	6.6 A						

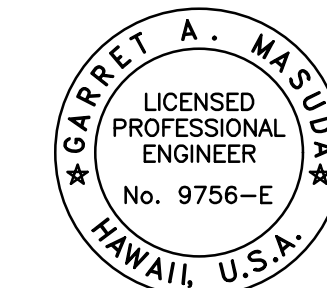
ID LEGEND:

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	PANEL TOTALS
LIGHTING	10.7 KVA	100.0%	10.7 KVA	
RECEPTACLES	0.0 KVA	#DIV/0!	0.0 KVA	<b>TOTAL CONNECTED LOAD:</b> 18.5 KVA
HVAC	0.0 KVA	100.0%	0.0 KVA	<b>TOTAL DEMAND LOAD:</b> 16.7 KVA
MOTOR LOAD	6.0 KVA	100.0%	6.0 KVA	<b>TOTAL CONNECTED CURRENT:</b> 22.3 A
FIRE ALARM	0.0 KVA	100.0%	0.0 KVA	<b>TOTAL DEMAND CURRENT:</b> 20.1 A
KITCHEN EQUIPMENT	0.0 KVA	65.0%	0.0 KVA	
OTHER LOADS	0.0 KVA	100.0%	0.0 KVA	

NOTES:



Airports Division  
 DEPARTMENT OF TRANSPORTATION  
 STATE OF HAWAII



EXP. 4/30/2024

*Garrett A. Masuda*  
 This work was prepared by me or under my supervision.

DSGN.	DRWN.	CHKD.	APPD.

NO.	DATE	REVISIONS

DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING TO WORKSHOP**

AT  
 DANIEL K. INOUE INTERNATIONAL AIRPORT  
 HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

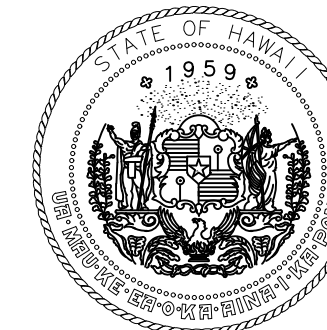
SHEET TITLE:

**ELECTRICAL PANEL SCHEDULE**

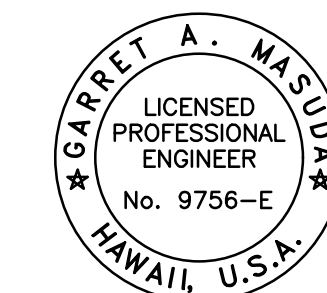
DATE :	DWG. NO.
05/10/23	
SHEET :	
81 OF 84 SHEETS	<b>E-702</b>

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Airports Division  
DEPARTMENT OF TRANSPORTATION  
STATE OF HAWAII



EXP. 4/30/2024

*Garrett A. Masuda*  
This work was prepared by me or under my supervision.

DSGN.	DRWN.	CHKD.	APPD.
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NO.	DATE	REVISIONS
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DATE

PROJECT TITLE :

**CONVERT CARGO BUILDING  
TO WORKSHOP**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1325-33**

SHEET TITLE:

**CARPENTER SHOP  
EQUIPMENT  
SCHEDULE**

DATE :

**05/10/23**

SHEET :

83 OF 84 SHEETS

DWG. NO.

**E-704**

CARPENTER SHOP EQUIPMENT SCHEDULE											
EQUIPMENT ID	EQUIPMENT DESCRIPTION	SPECIFIED RATING (HP / KW)	VOLTAGE / PHASE	FLA / RLA	MOCB	MCA	TERMINATION TYPE	DISCONNECT SWITCH		BRANCH CIRCUIT REQUIREMENT	REMARKS
								POLES / AMPS	ENCLOSURE		
1	DISC SANDER										
2	24" SURFACE PLANER										
3	8" JOINTER										
4	10" TABLE SAW										
5	10" TABLE SAW										
6	18" SURFACE PLANER										
7	8" JOINTER										
8	4'X8" ROLLING WORK TABLE										
9	4'X8" ROLLING WORK TABLE										
10	4'X8" ROLLING WORK TABLE										
11	16" RADIAL ARM SAW										
12	8-1/2" CHOPSAW										
13	24" BAND SAW										
14	14" BAND SAW										
15	16-1/2" DRILL PRESS										
16	6" BENCH GRINDER										
17	6" BUFFER										
18	16-1/2" DRILL PRESS										
19	12" RADIAL ARM SAW										
20	10" SLD. CHOPSAW										
21	EMERGENCY EYE WASH PORTABLE, SELF CONTAINED.										
22											

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