

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 RADII, 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 (F_y = 50 KSI)
 - 2. ANGLES, PLATES, CHANNELS, RODS: ASTM A36 (F_y = 36 KSI)
 - 3. HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A500, GRADE B (F_y = 42 KSI)
 - 4. ERECTION BOLTS: ASTM A307
 - 5. BOLTS: ASTM A325
 - 6. 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 01IL35CN 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 A706, 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 BE A MEMBER OF THE STEEL STUD MANUFACTURER'S 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. 4943P.
- D. MEMBERS ARE TO BE GALVANIZED IN ACCORDANCE WITH ASTM A525.
- E. SHOP DRAWINGS SUBMITTALS SHALL BE ACCOMPANIED BY MANUFACTURER'S 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 A653, GRADE 50, G90 COATING
 - 2. GALVANIZED STUDS (18 OR 20 GAUGE) ASTM A653, GRADE 33, G90 COATING
 - 3. GALVANIZED TRACK, END CLOSURES, BRIDGING AND ACCESSORIES ASTM A653, GRADE 50, G90 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

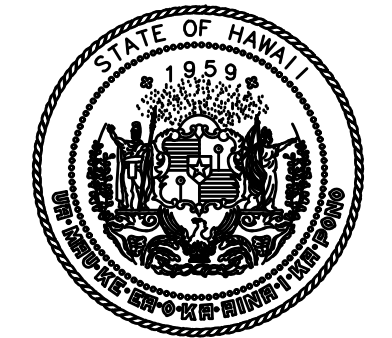
- A. SPECIAL INSPECTION PROVISIONS OF CHAPTER 17 OF THE 2018 INTERNATIONAL BUILDING CODE GOVERNS PORTIONS OF THE STRUCTURAL WORK AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS. THE SPECIAL INSPECTOR SHALL BE HIRED BY THE OWNER.
- B. THE MINIMUM RESPONSIBILITIES OF THE SPECIAL INSPECTOR SHALL BE OUTLINED 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

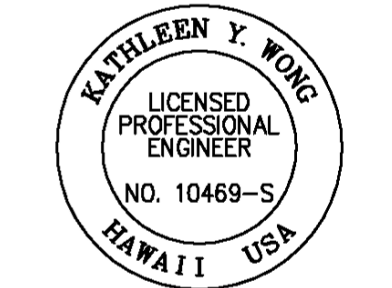
- A. BUILDING RISK CATEGORY-----II
- B. LIVE LOADS:
 - 1. OFFICES -----50 PSF
- C. SUPERIMPOSED DEAD LOADS:
 - 1. MECHANICAL, ELECTRICAL, PLUMBING-----5 PSF
 - 2. CEILING-----5 PSF
- D. SEISMIC LOADS:
 - 1. RISK CATEGORY-----II
 - 2. SEISMIC IMPORTANCE FACTOR-----1.00
 - 3. SEISMIC SITE CLASS-----D (ASSUMED)
 - 4. S_s-----0.570g
 - 5. S₁-----0.164g
 - 6. S_{ds}-----0.511g
 - 7. S_{d1}-----0.248g
 - 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. ANSI/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



Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



Kathleen Y. Wong
04/30/2024
Licensed Expiration Date

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DSGN.	DRWN.	CHKD.	APPD.
JP	JP	KW	

▲	06/02/2023	ADDENDUM NO. 1
	NO.	DATE

DATE

PROJECT TITLE :

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

PROJECT NO.:

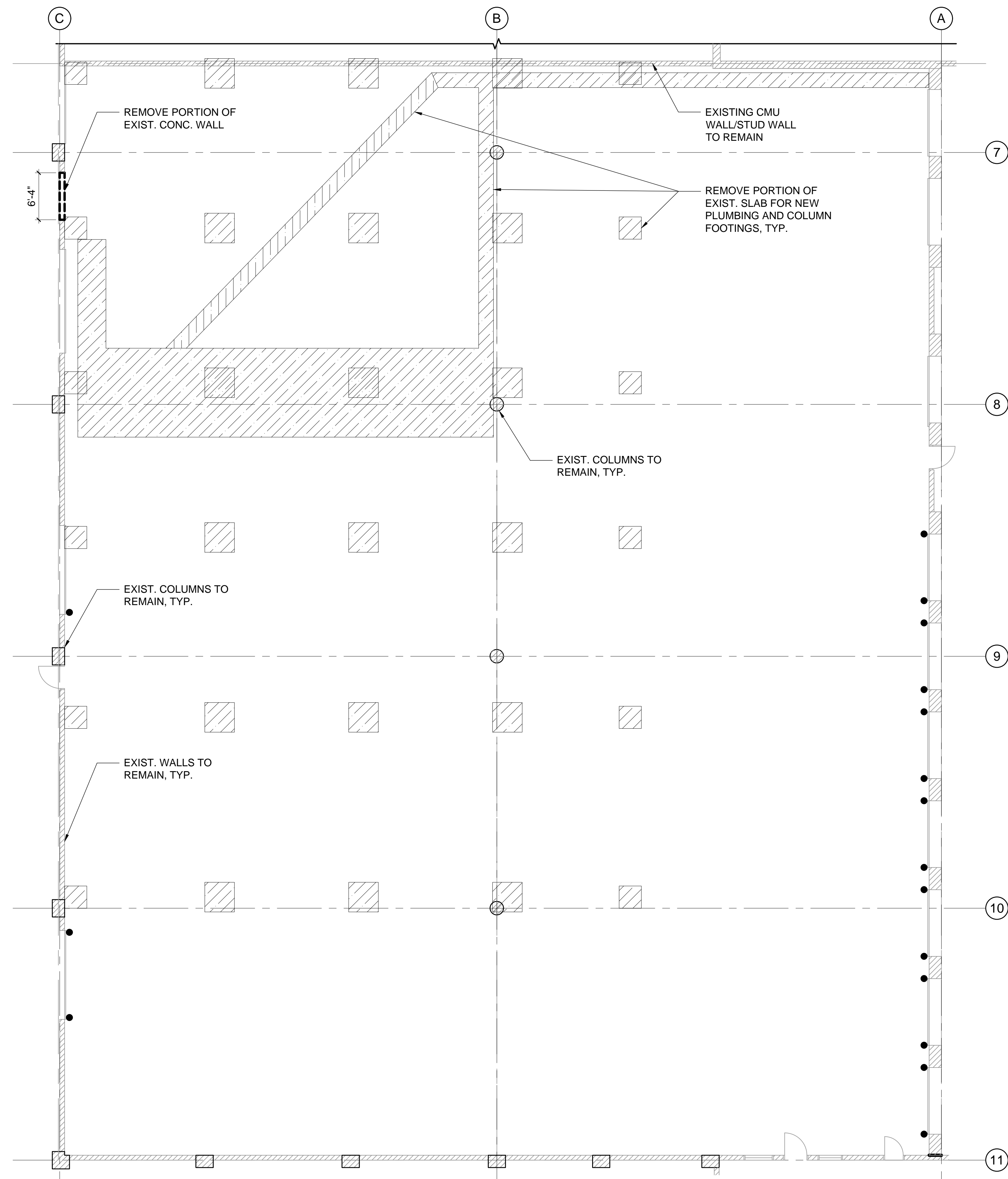
CO1325-33

SHEET TITLE:

STRUCTURAL GENERAL NOTES

DATE :	DWG. NO.
05/10/23	S001
SHEET :	
26 OF 84 SHEETS	

M:\2022\2022_01\0\000 YFH-HNL CARGO WAREHOUSE\DWG\STRUCTURAL\INDIVIDUAL SHEETS\S001 STRUCTURAL GENERAL NOTES.DWG



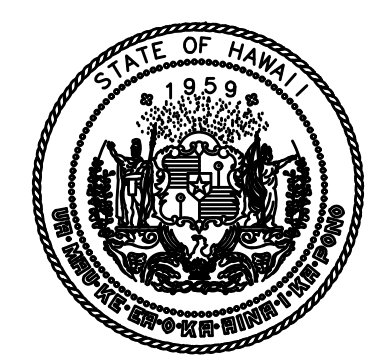
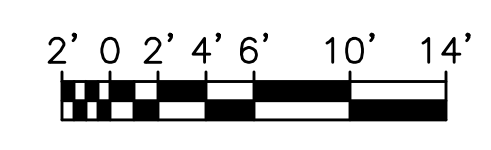
DEMOLITION NOTES:

- 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.

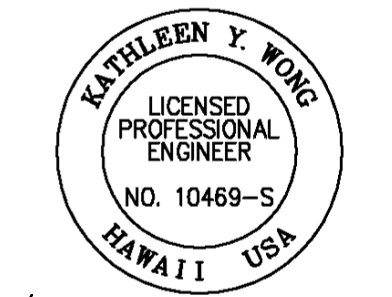
LEGEND:

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

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



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NO.	DATE	REVISIONS
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DATE

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CONVERT CARGO BUILDING TO WORKSHOP

AT
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HONOLULU, OAHU, HAWAII

PROJECT NO.:

CO1325-33

SHEET TITLE:

DEMOLITION FLOOR PLAN

DATE : **05/10/23**

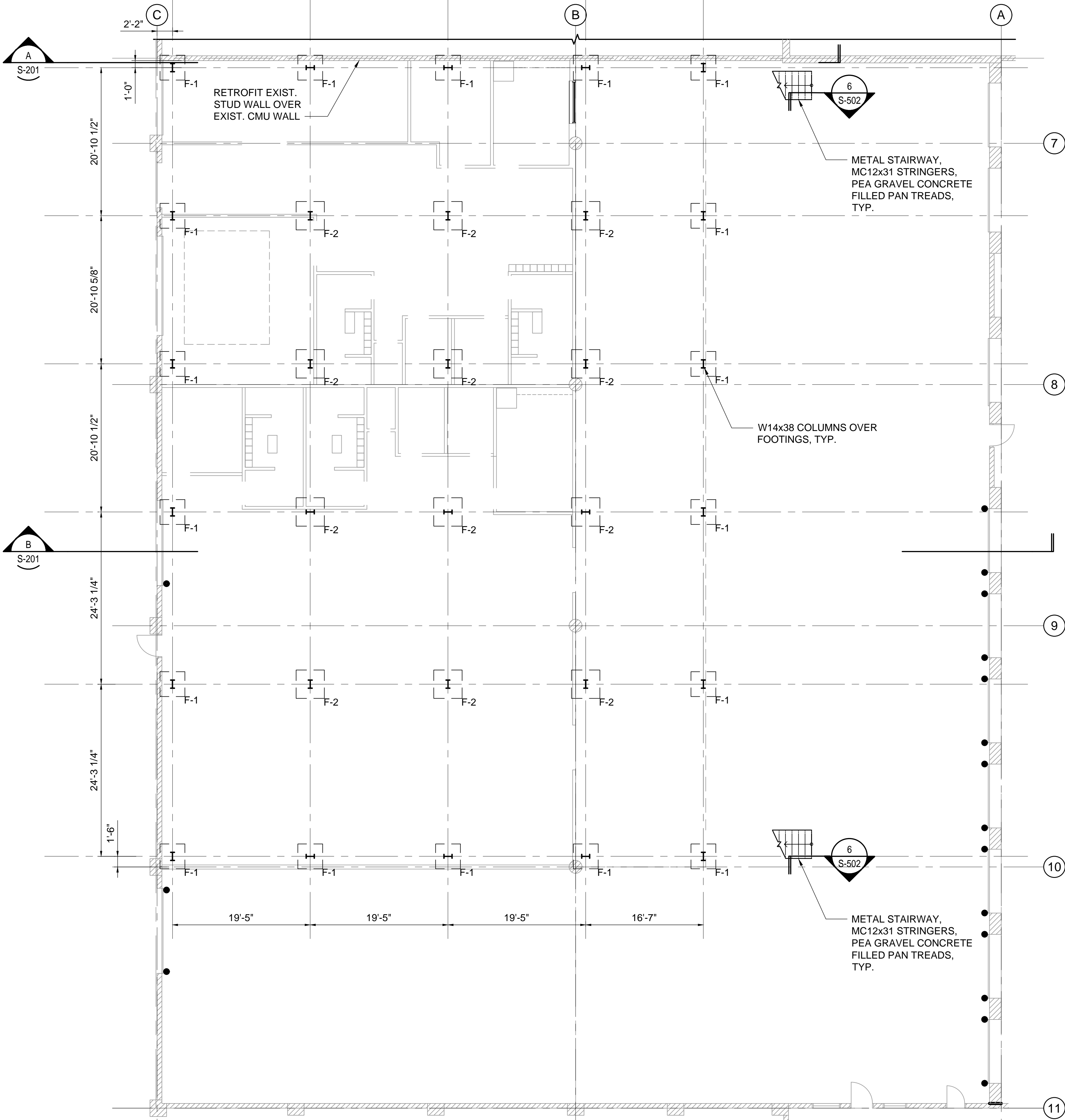
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27 OF 84 SHEETS

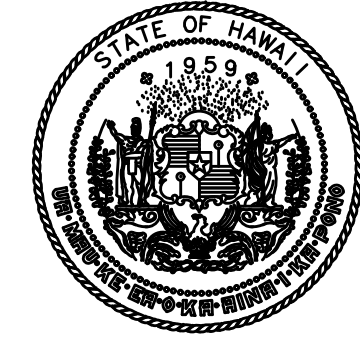
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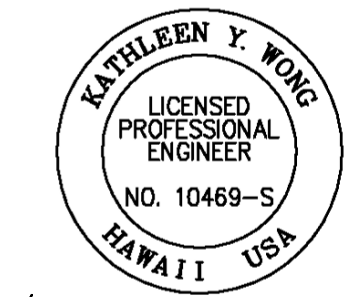
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LEGEND:
 F1: 3' x 3' x 12" CONCRETE FOOTING (SEE SHEET S501)
 F2: 4' x 4' x 14" CONCRETE FOOTING (SEE SHEET S501)



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SHEET TITLE:

GROUND FLOOR PLAN

DATE : 05/10/23

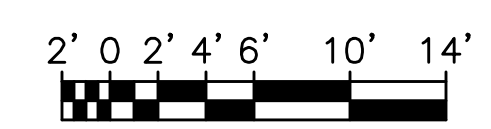
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28 OF 84 SHEETS

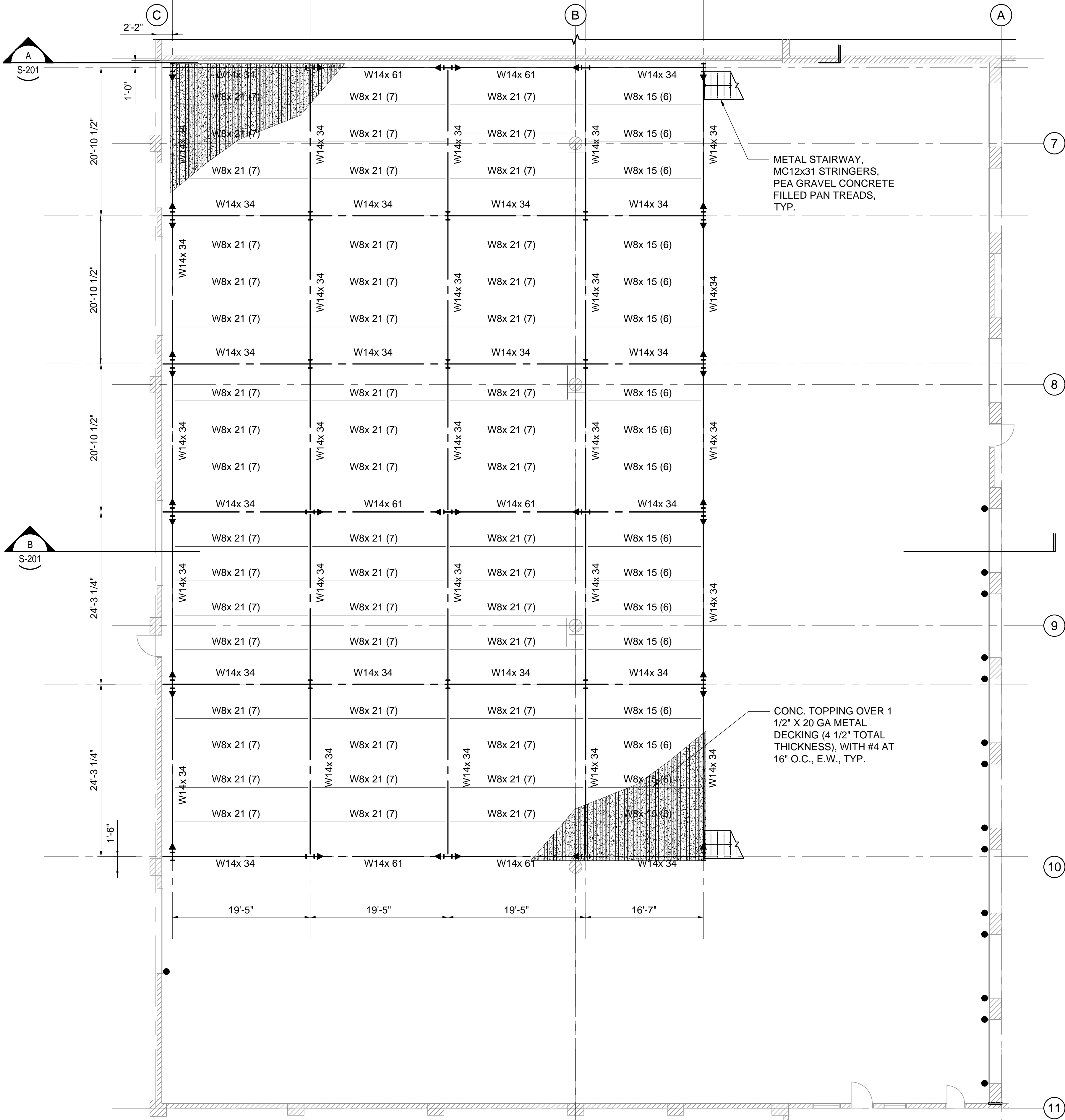
DWG. NO.

S101

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



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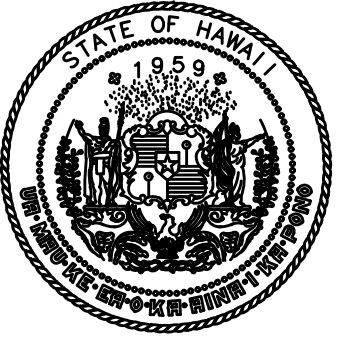
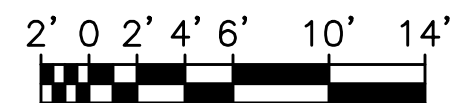
LEGEND:

- ◀▶ STEEL MOMENT FRAME
- W8x15 (6): W8x15 FRAMING BEAM WITH 6 STUDS SPACED EQUALLY

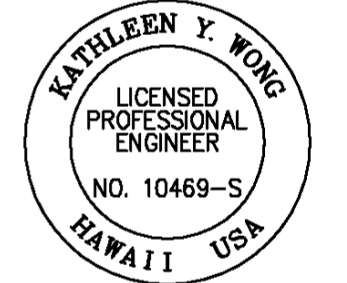
METAL STAIRWAY,
MC12x31 STRINGERS,
PEA GRAVEL CONCRETE
FILLED PAN TREADS,
TYP.

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

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



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HONOLULU, OAHU, HAWAII

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CO1325-33

SHEET TITLE:

**MEZZANINE FLOOR
PLAN**

DATE :

05/10/23

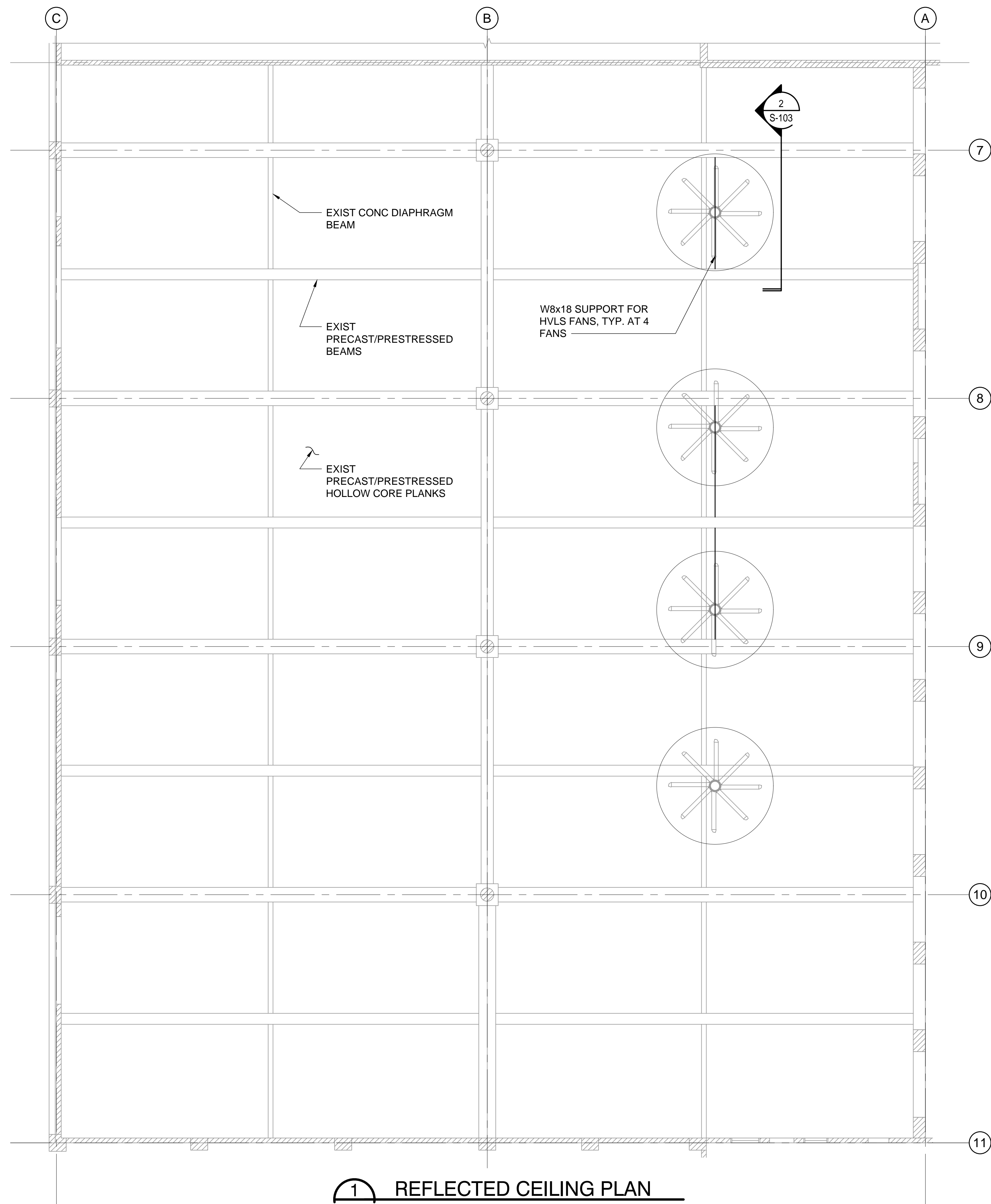
SHEET :

29 OF 84 SHEETS

DWG. NO.

S102

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

W8x 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

9 S-502

7 S-502

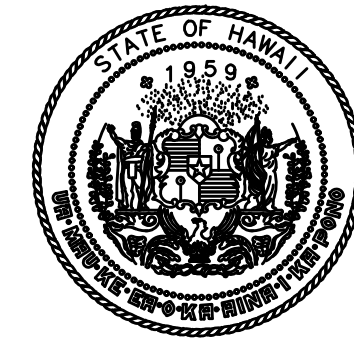
4 GUY WIRES BY
 FAN MANUF.

INDUSTRIAL FAN
 INSTALL AS PER
 MANUF. SPEC

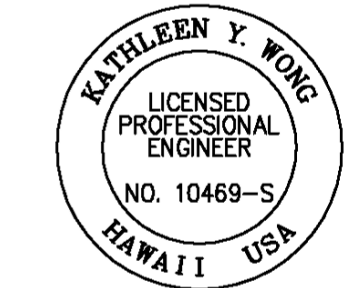
2 S103

FAN SUPPORT SECTION

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



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PROJECT NO.:

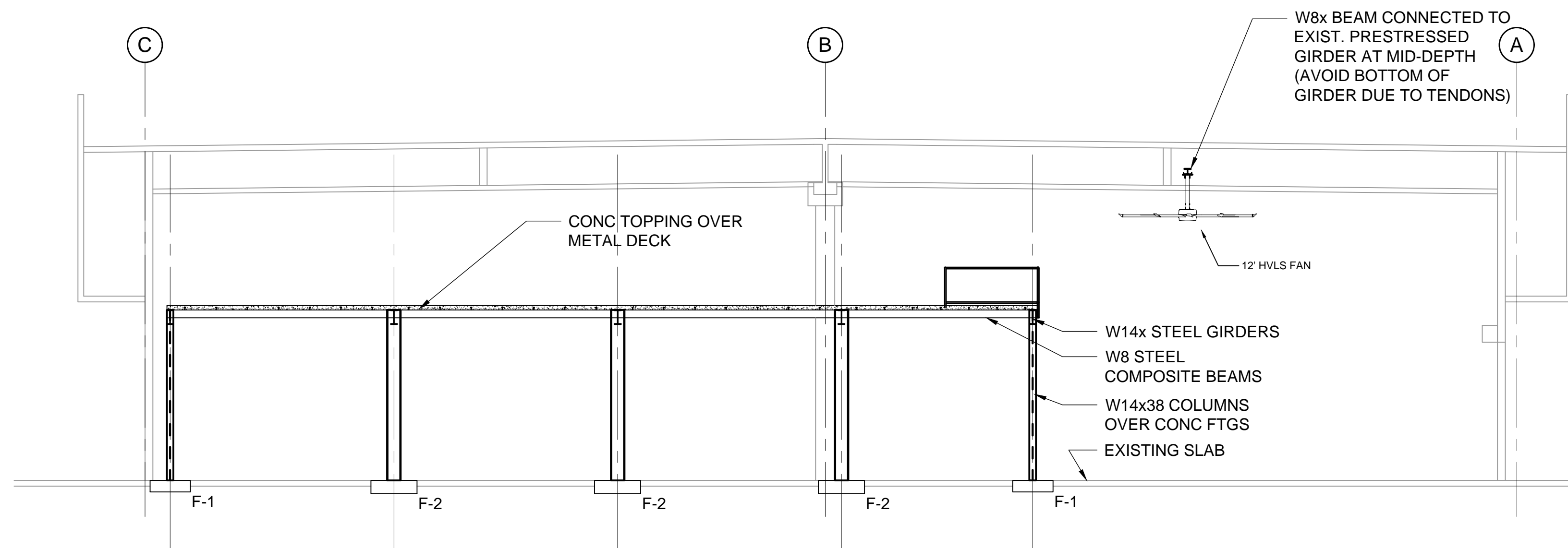
CO1325-33

SHEET TITLE:

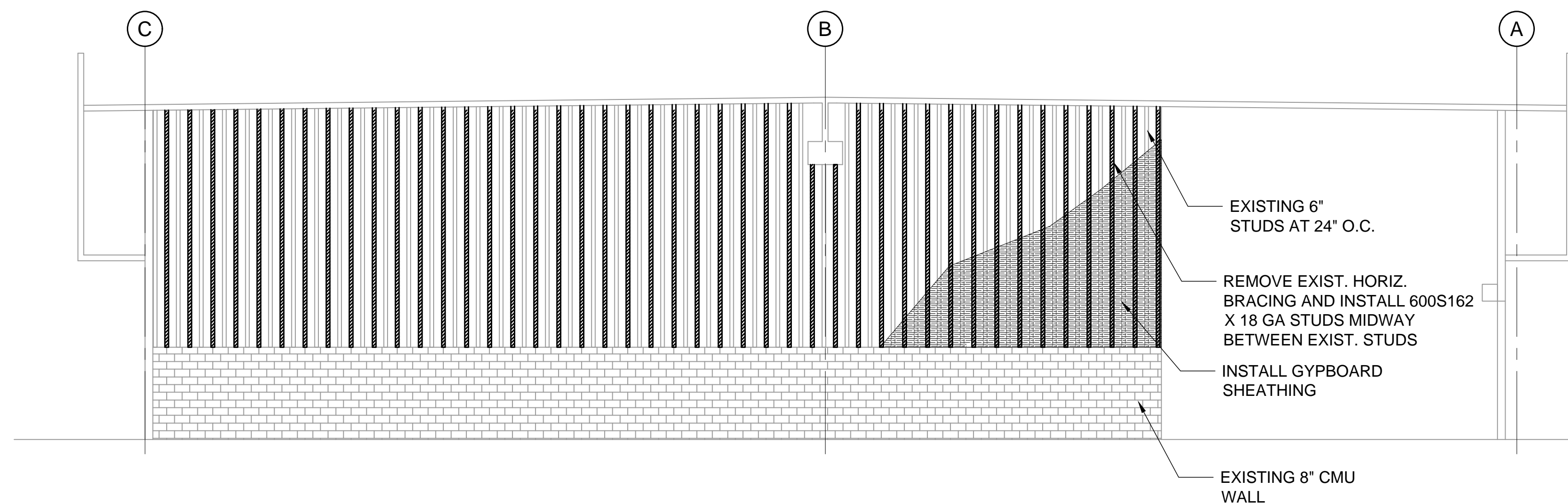
**REFLECTED CEILING
 PLAN**

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

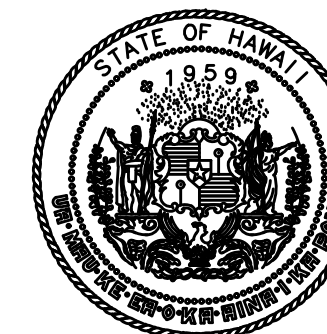
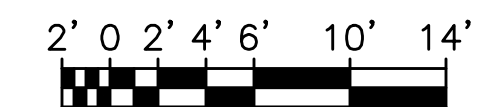
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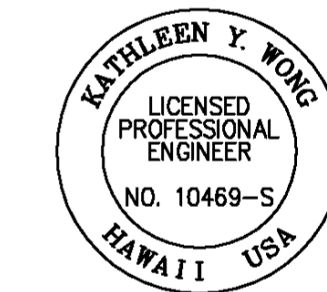
B BUILDING SECTION
S201 SCALE: 1/8" = 1'-0"



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



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HONOLULU, OAHU, HAWAII

PROJECT NO.:

CO1325-33

SHEET TITLE:

BUILDING SECTIONS

DATE :

05/10/23

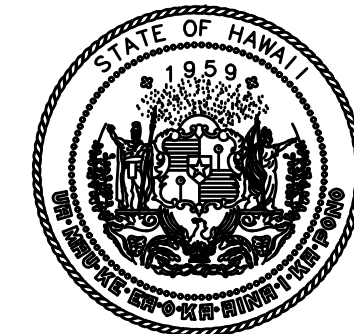
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31 OF 84 SHEETS

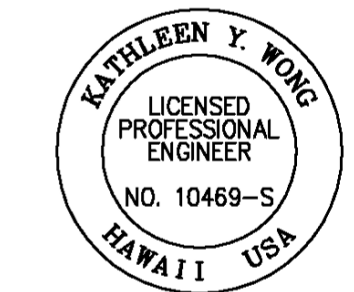
DWG. NO.

S201

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04/30/2024
Licensed Expiration Date

This work was prepared by me or under my supervision.

DSGN.	DRWN.	CHKD.	APPD.
JP	JP	KW	

1	06/02/2023	ADDENDUM NO. 1
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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:

**FOUNDATION SECTIONS
AND DETAILS**

DATE :

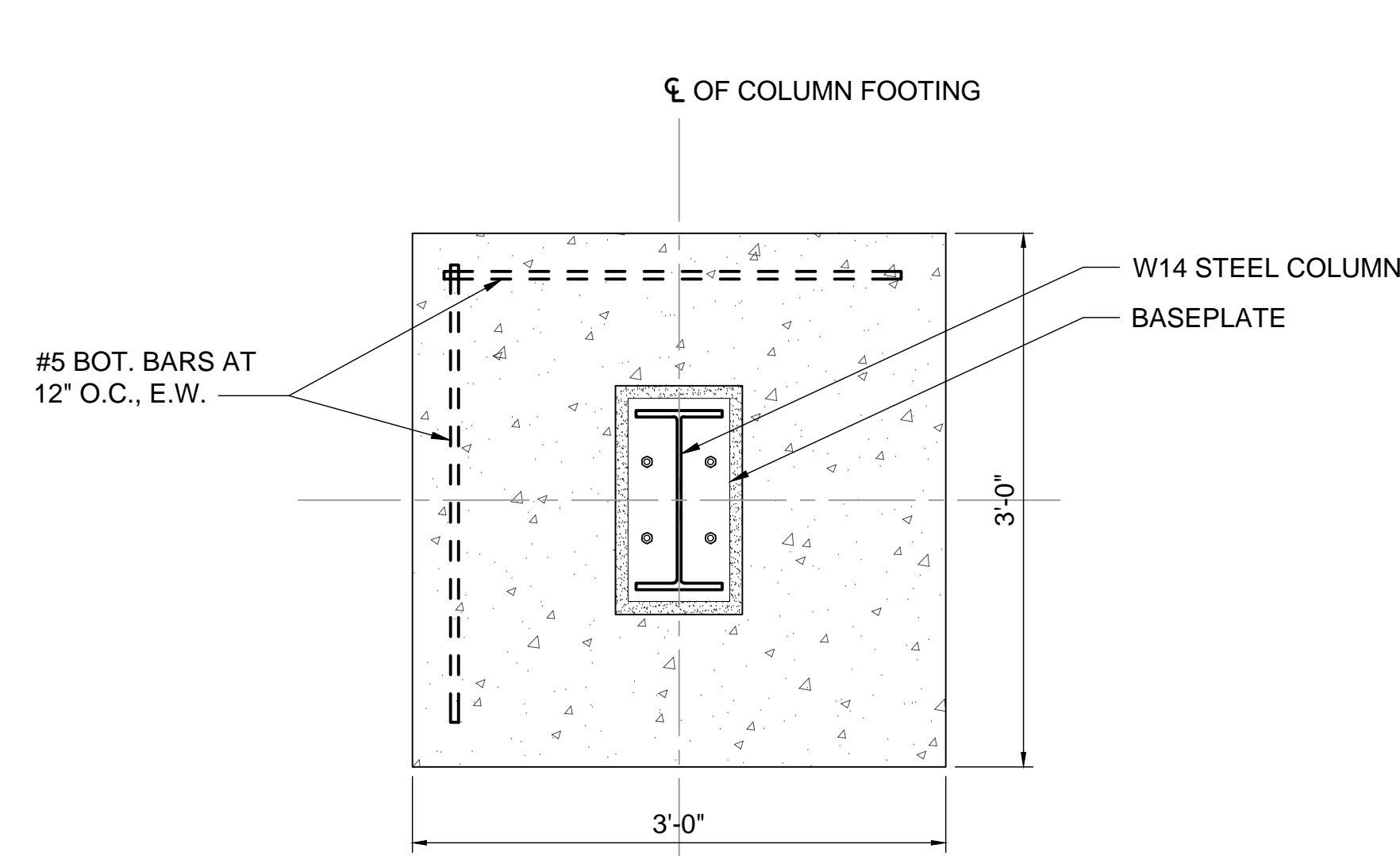
05/10/23

SHEET :

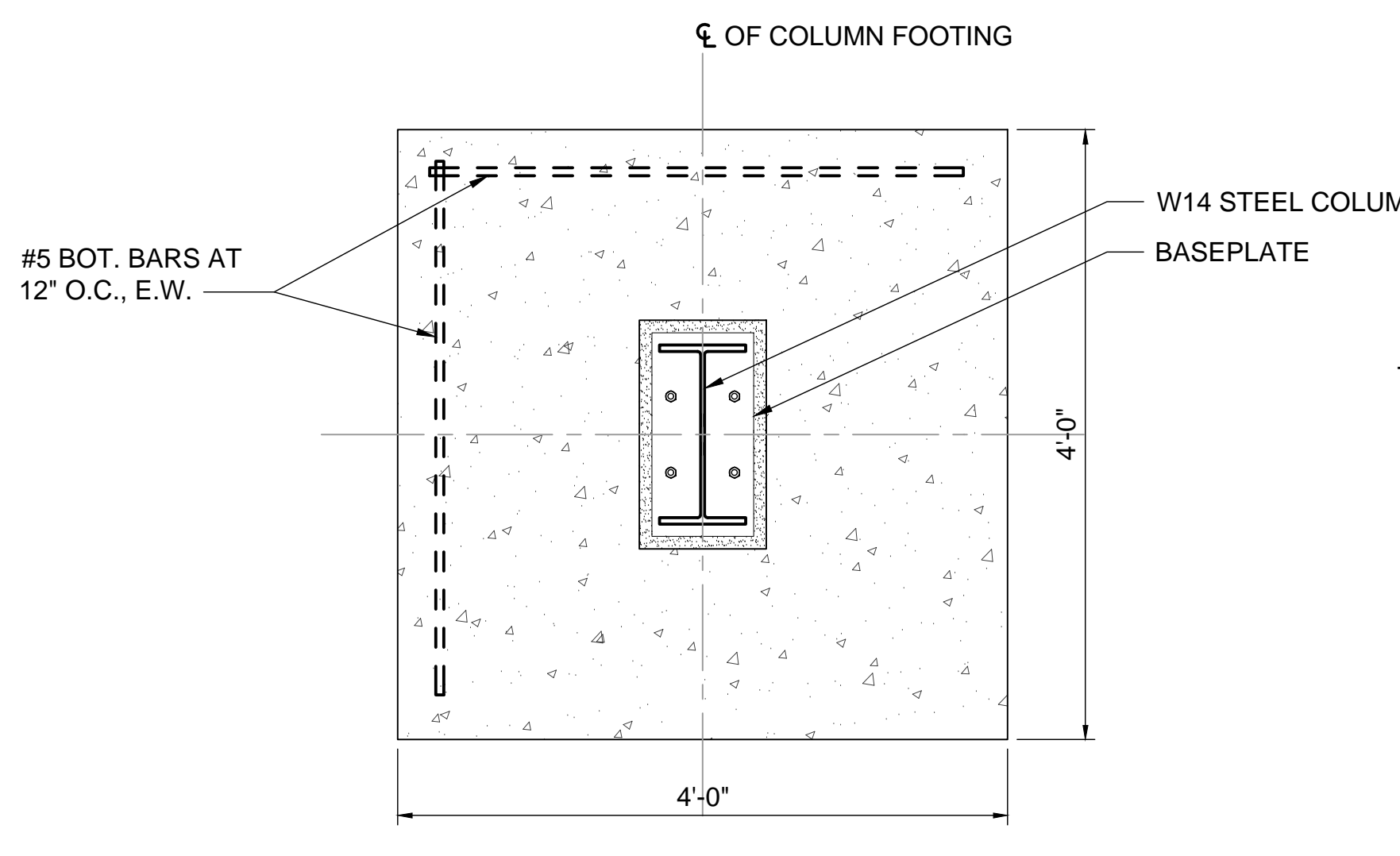
32 OF 84 SHEETS

DWG. NO.

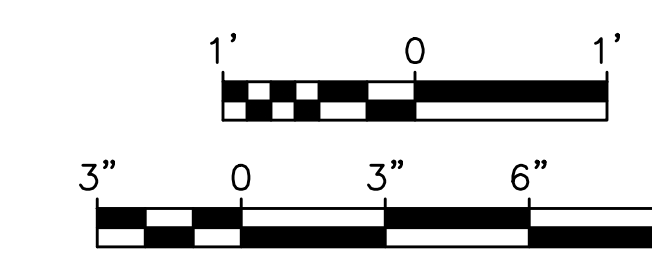
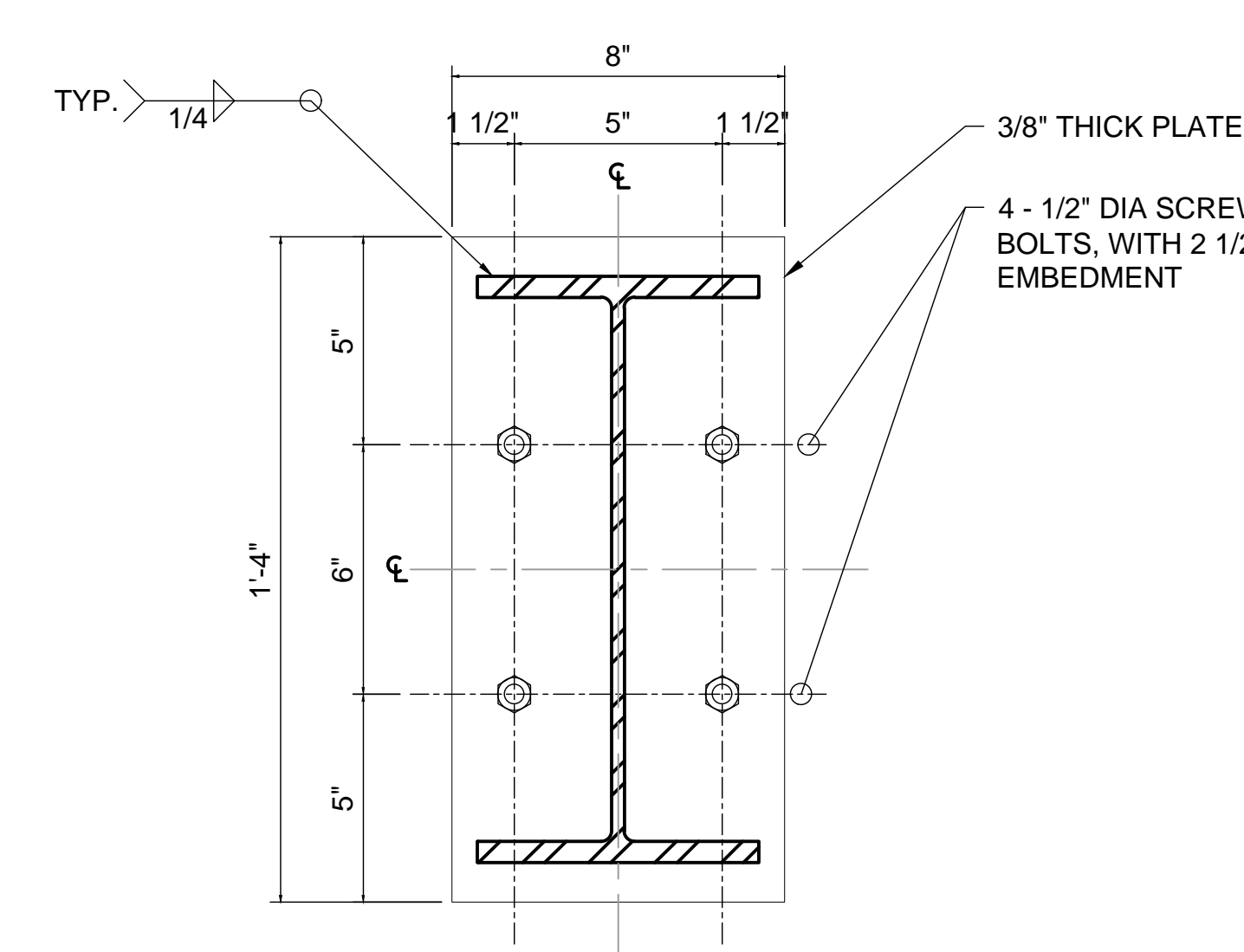
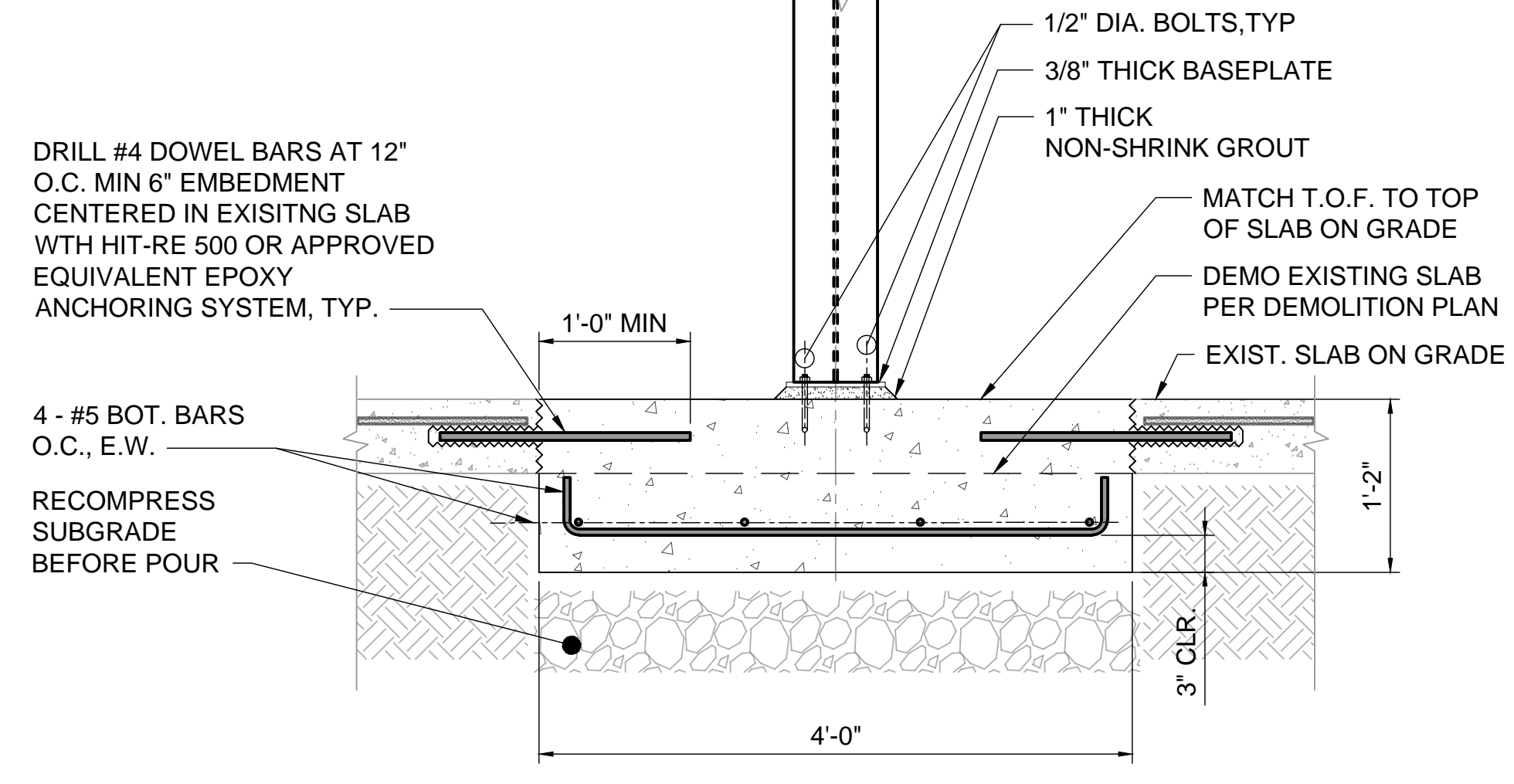
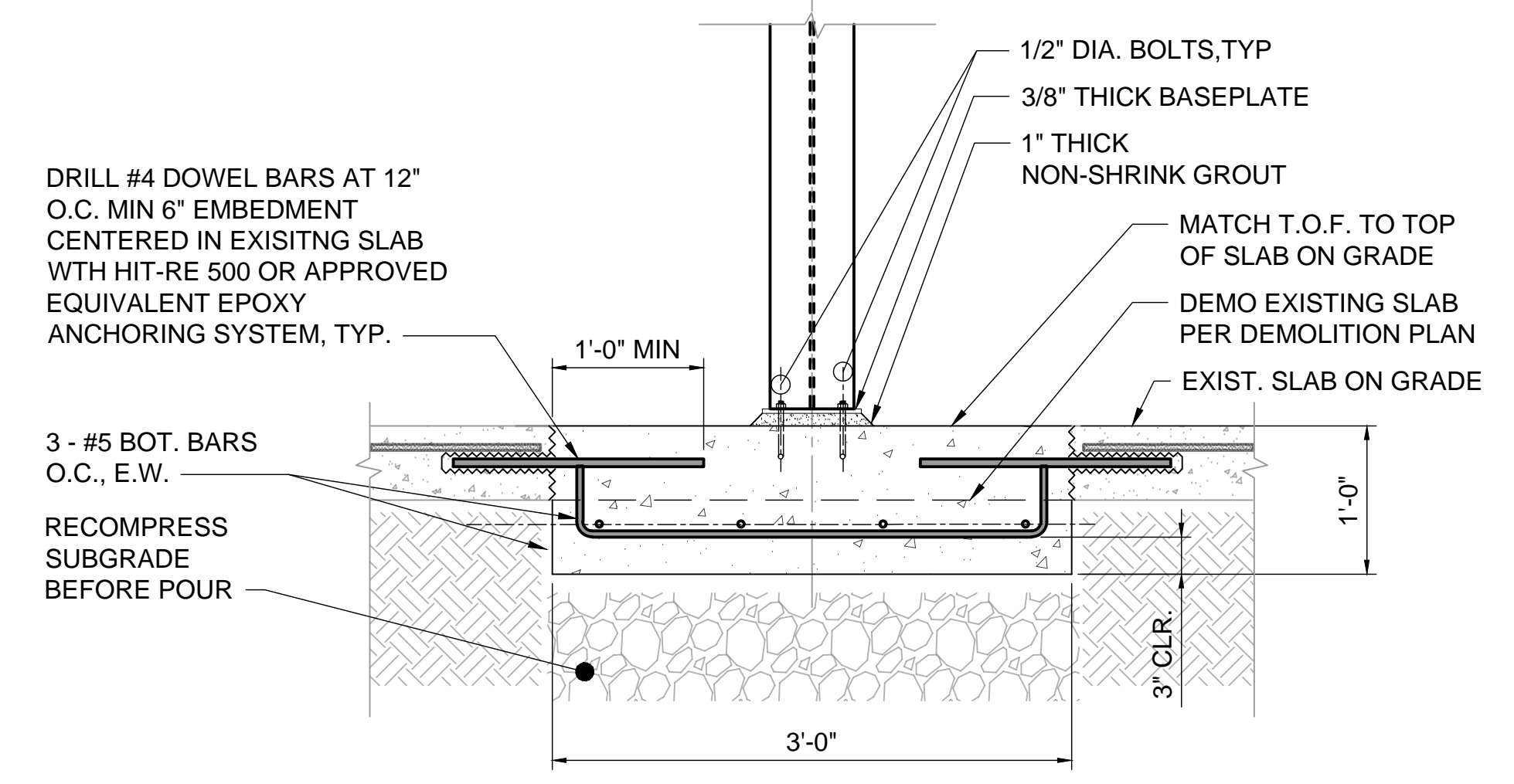
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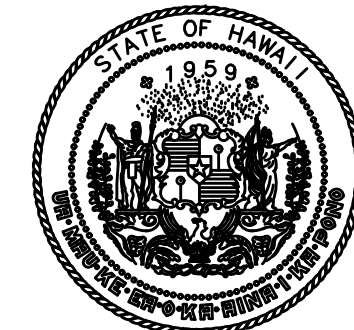
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F1 FOOTING DETAIL
SCALE: 1" = 1'-0"



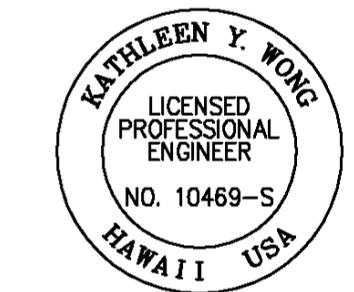
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F2 FOOTING DETAIL
SCALE: 1" = 1'-0"



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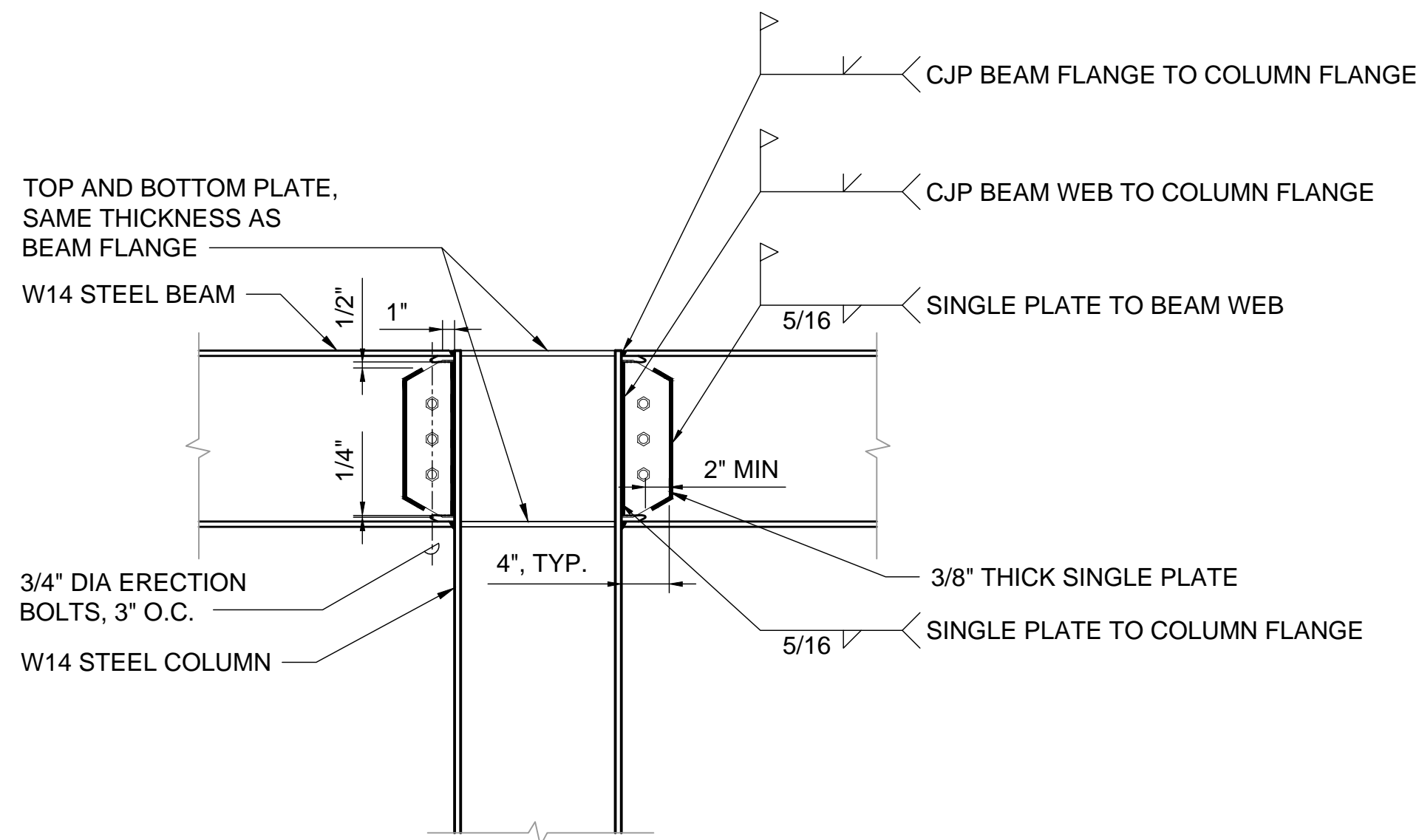
Airports Division
DEPARTMENT OF TRANSPORTATION
STATE OF HAWAII



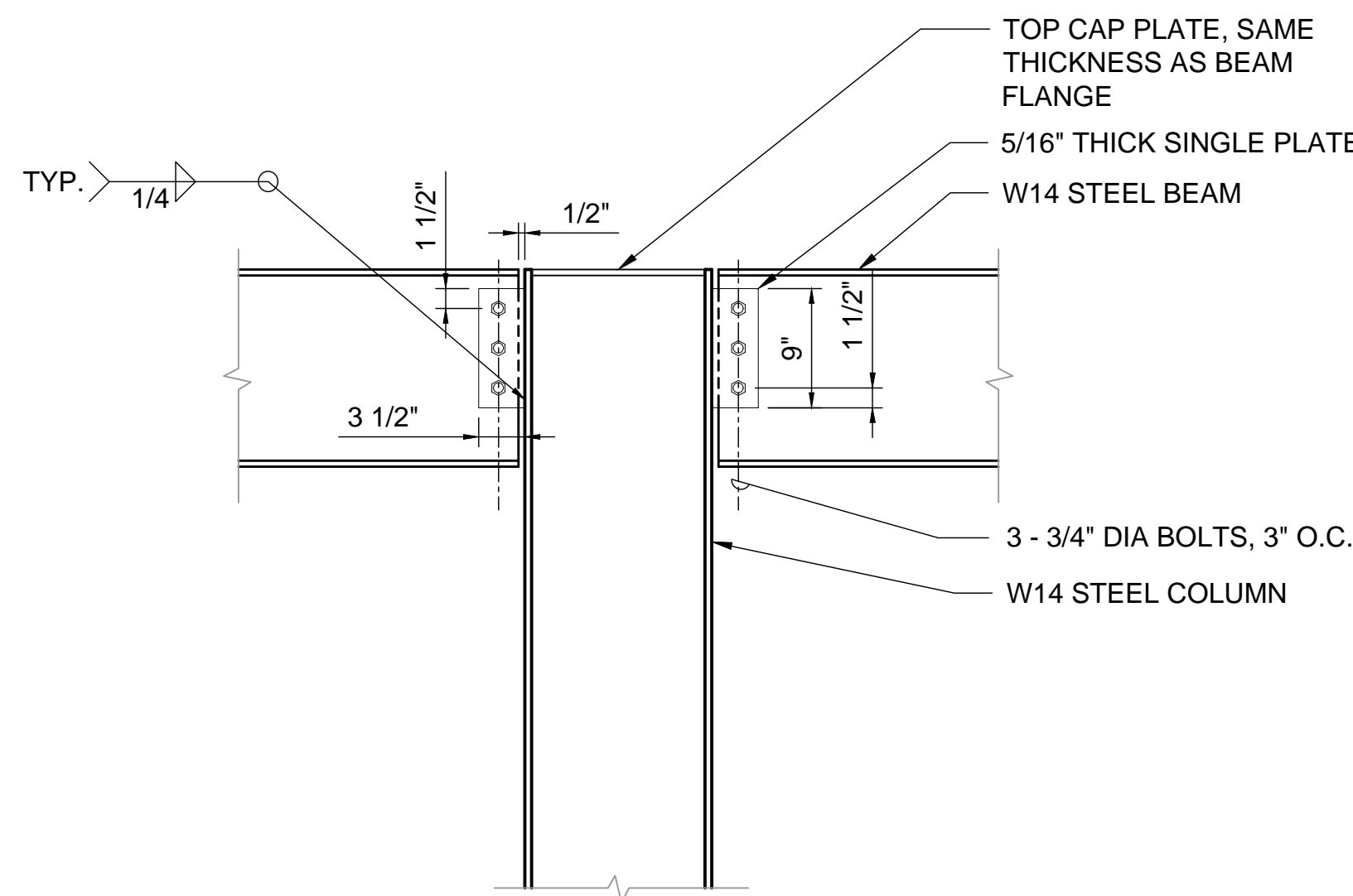
Kathleen Y. Wong
04/30/2024
Licensed Expiration Date

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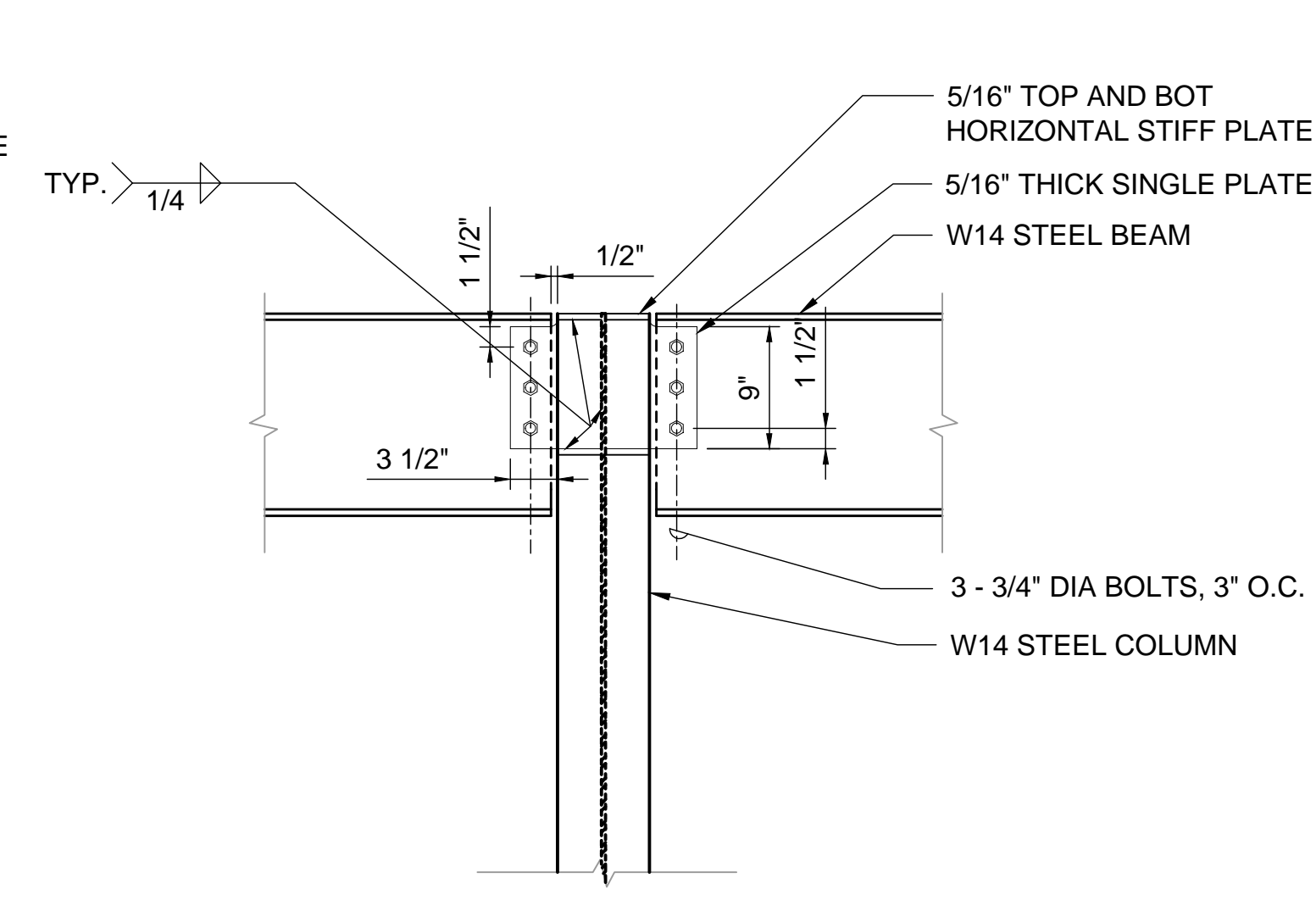
DSGN.	DRWN.	CHKD.	APPD.
JP	JP	KW	



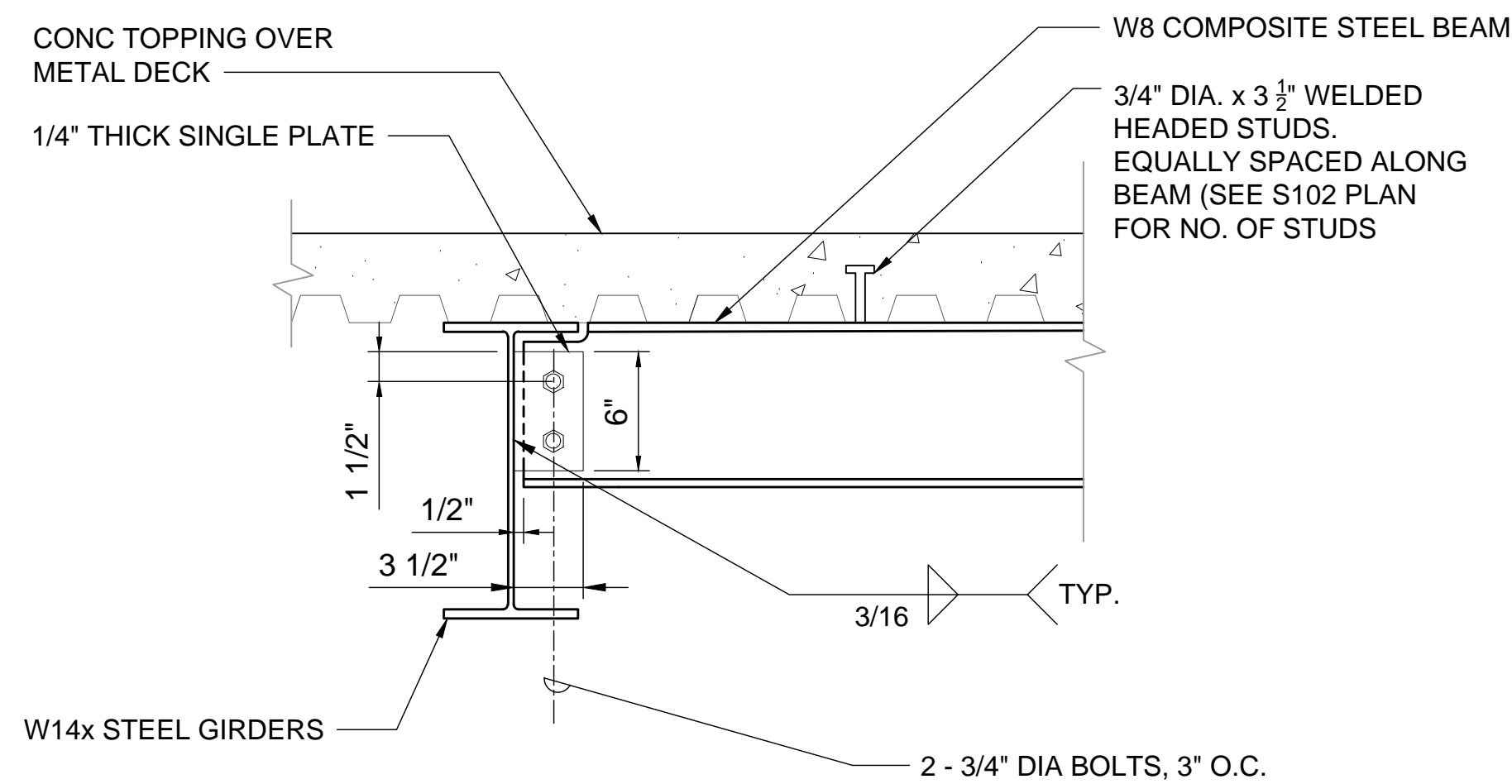
1 MOMENT FRAME BEAM TO COLUMN CONNECTION
S502 SCALE: 1" = 1'-0"



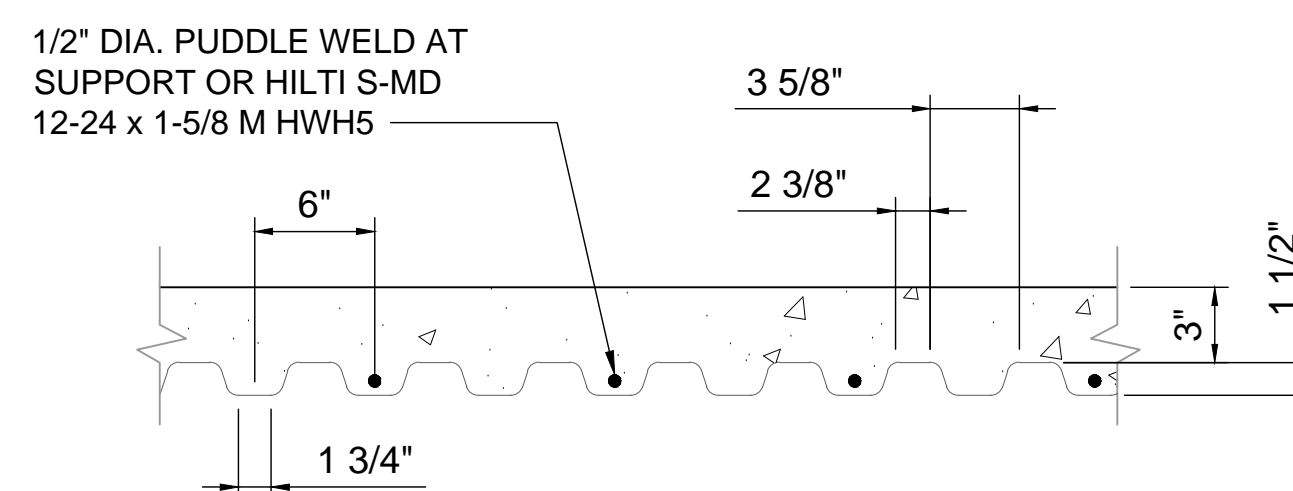
2 BEAM TO COLUMN FLANGE CONNECTION
S502 SCALE: 1" = 1'-0"



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

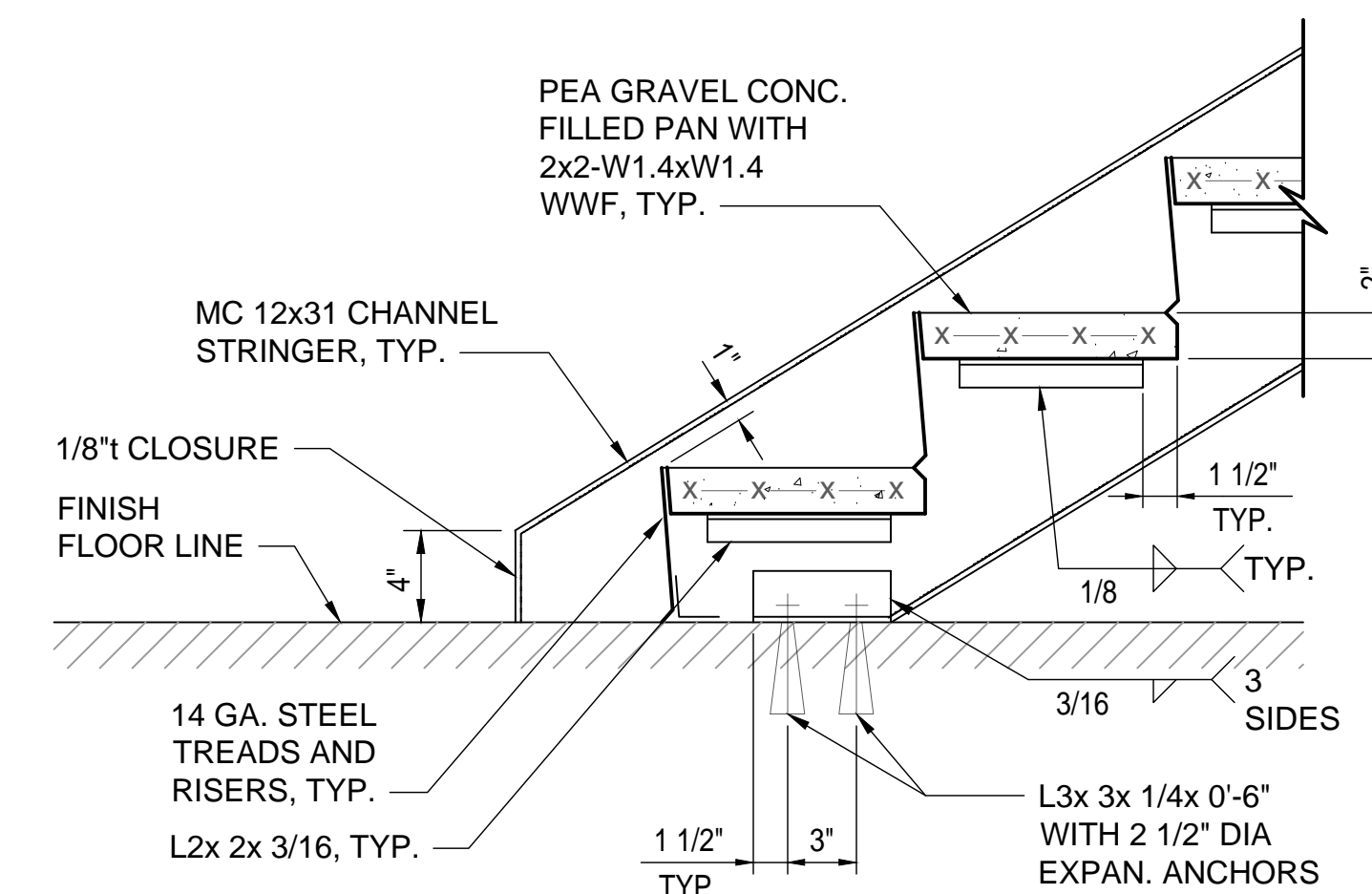


4 BEAM TO BEAM CONNECTION
S502 SCALE: 1 1/2" = 1'-0"

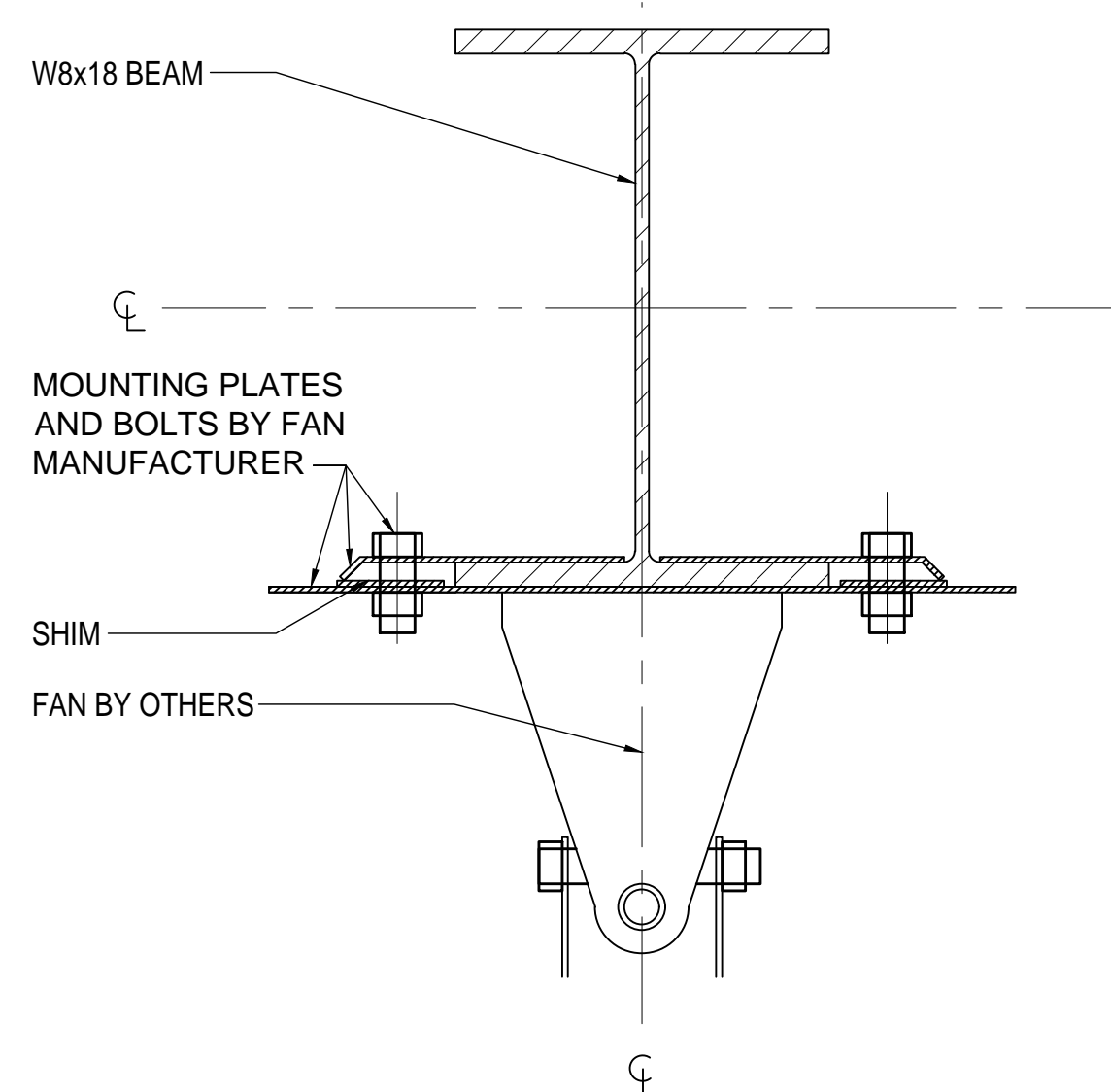


NOTE:
1. BOUNDARY WELDS TO SUPPORT PARALLEL TO THE RIBS SHALL BE 5/8" DIA. PLUG WELDS AT 12" MAXIMUM SPACING OR HILTI X-HVB80
2. SIDE SEAMS SHALL BUTTON PUNCH AT 12" O.C.

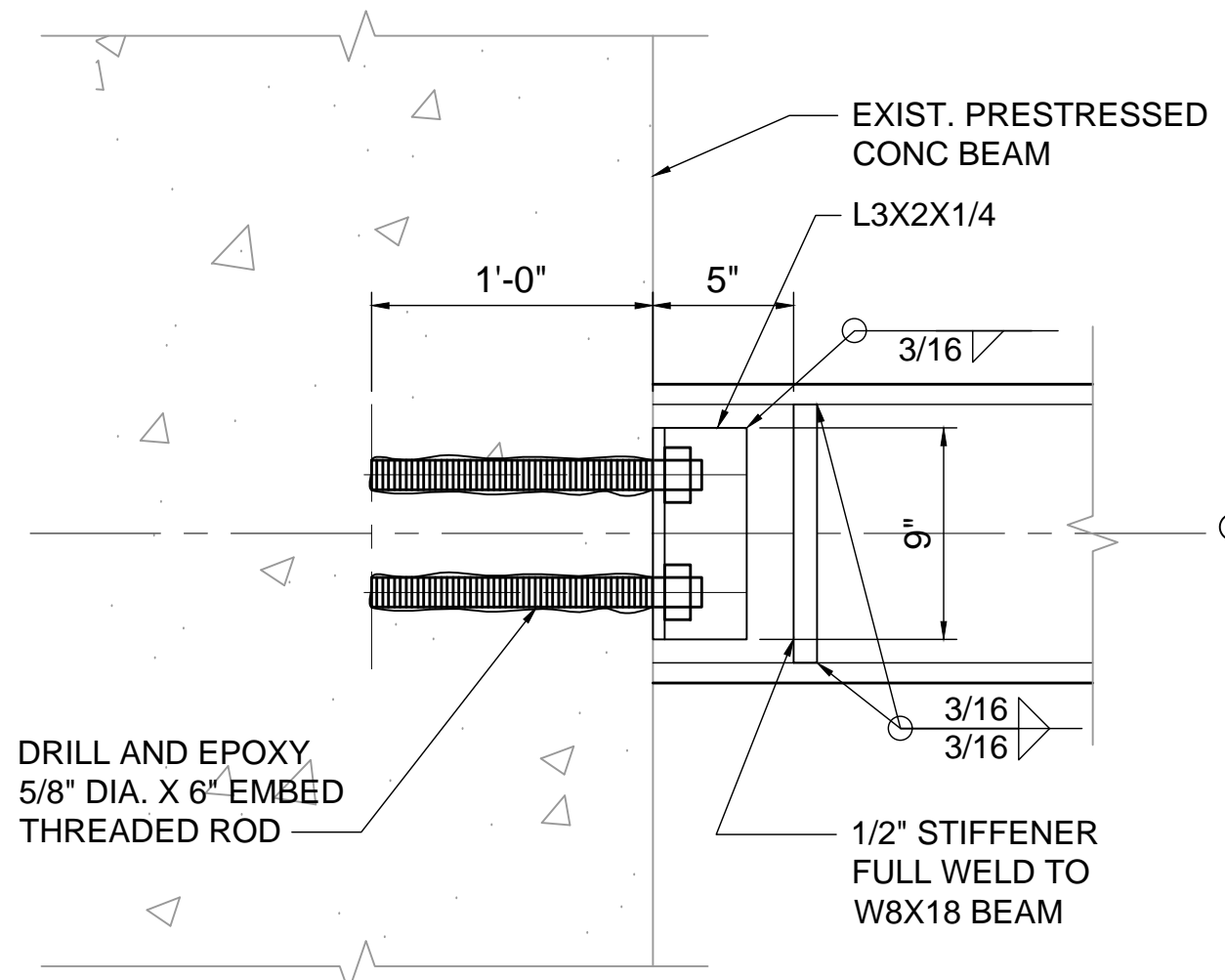
5 TYPICAL METAL DECKING DETAIL
S502 SCALE: 1 1/2" = 1'-0"



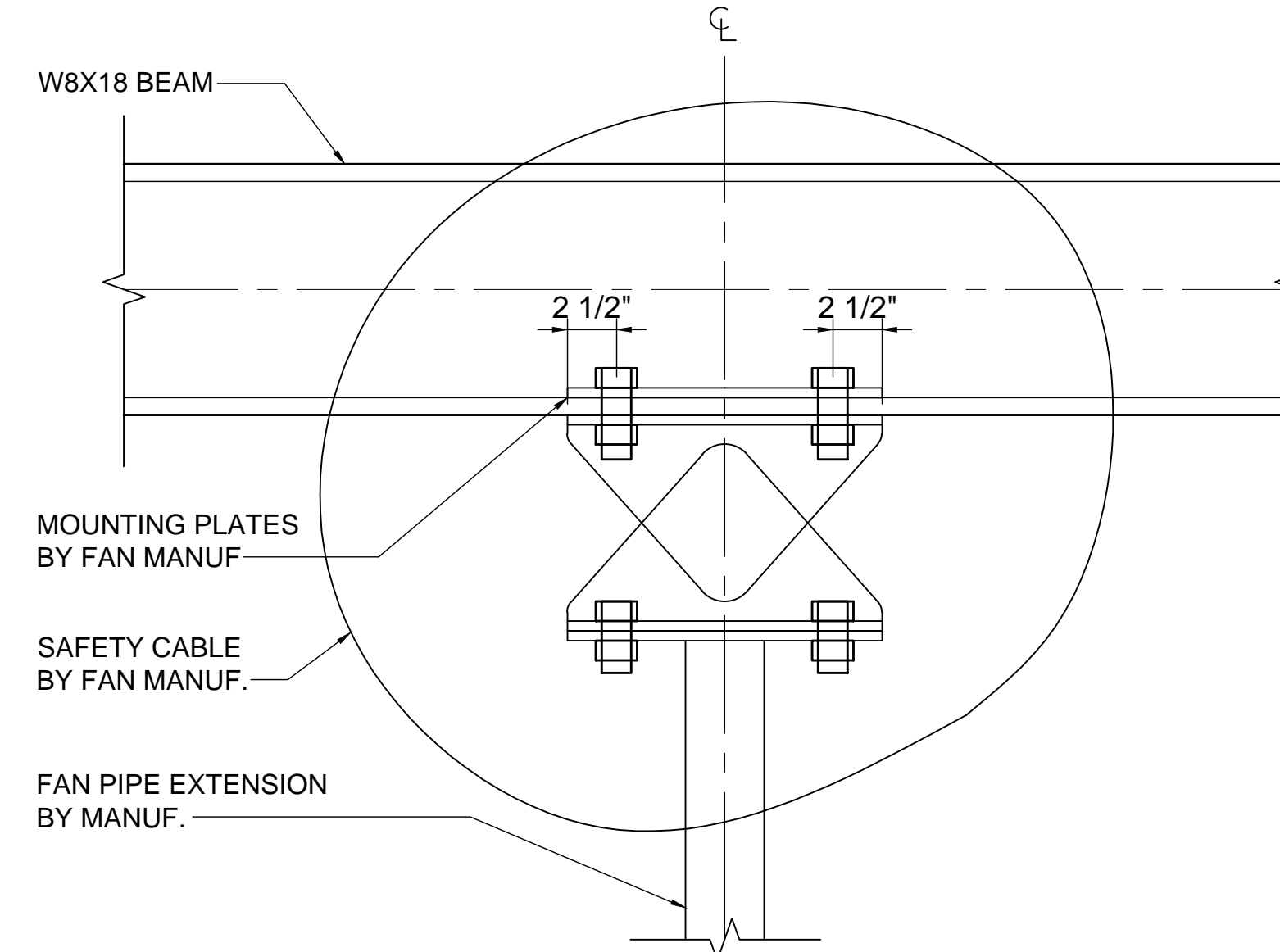
6 STEEL STAIR DETAIL
S502 SCALE: 1 1/2" = 1'-0"



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"



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PROJECT NO.:

CO1325-33

SHEET TITLE:

STEEL DETAILS

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

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