



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HCAI PREAPPROVAL OF
MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY

APPLICATION #: OPM-0701

HCAI Preapproval of Manufacturer's Certification (OPM)

Type: New Renewal/Update

Manufacturer Information

Manufacturer: SteelcoBelimed, Inc.

Manufacturer's Technical Representative: Jay Upchurch

Mailing Address: 8351 Palmetto Commerce Parkway, Suite 101, Ladson, SC 29456

Telephone: (843) 323-7571 Email: jay.upchurch@belimed.us

Product Information

Product Name: MST-H 10.02 GR Sterilizer

Product Type: Other mechanical or electrical component

Product Model Number: MST-H 10.02 GR

General Description: carriage loading steam sterilizer for hospital use

Applicant Information

Applicant Company Name: EASE LLC.

Contact Person: Tiffany Tonn

Mailing Address: 1515 FAIRVIEW AVE, STE 205, MISSOULA, MT 59801

Telephone: (406) 541-3273 Email: tiffany@easeco.com

Title: Office Assistant

"A healthier California where all receive equitable, affordable, and quality health care"

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
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Registered Design Professional Preparing Engineering Recommendations

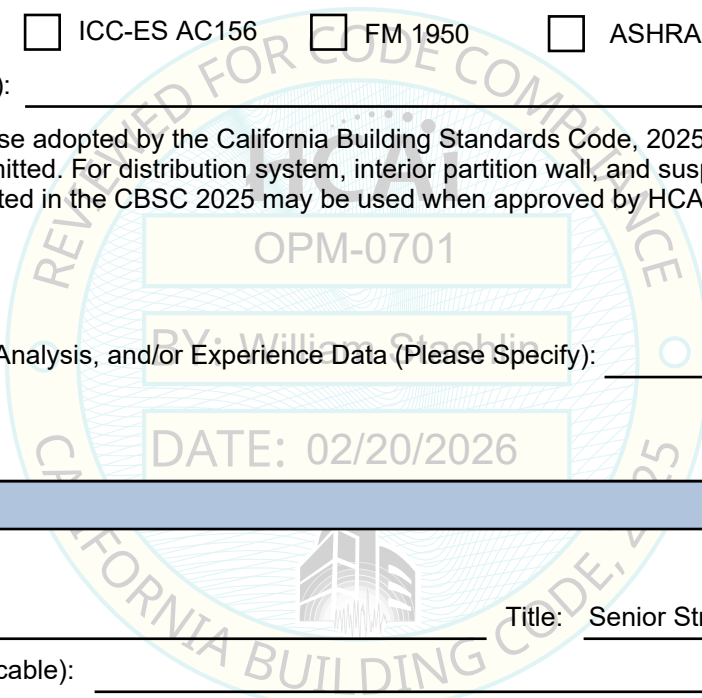
Company Name: EASE LLC
Name: Jonathan Roberson California License Number: S4197
Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709
Telephone: (951) 295-1892 Email: jon@EASECo.com

Certification Method

Testing in accordance with: ICC-ES AC156 FM 1950 ASHRAE 171 FEMA 461
 Other(s) (Please Specify): _____

*Use of criteria other than those adopted by the California Building Standards Code, 2025 (CBSC 2025) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2025 may be used when approved by HCAI prior to testing.

Analysis
 Experience Data
 Combination of Testing, Analysis, and/or Experience Data (Please Specify): _____



HCAI Approval

Date: 2/20/2026
Name: William Staehlin Title: Senior Structural Engineer
Condition of Approval (if applicable): _____

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





**EQUIPMENT ANCHORAGE
& SEISMIC ENGINEERING**

5877 Pine Ave, Ste. 210
Chino Hills, CA. 91709
Phn: (909) 606-7622

The Department of Health Care Access and Information
PREAPPROVAL OF MANUFACTURER'S CERTIFICATION
OPM-0701

THIS PREAPPROVAL CONFORMS TO THE 2025 CALIFORNIA BUILDING CODE

MANUFACTURER: **BELIMED INFECTION CONTROL**
EQUIPMENT NAME: **MST-H 10.02 HSX Option GR**

Sheet: 1 of 12
Date: 2/18/26

GENERAL NOTES

1. THIS HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2025 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2025 CBC
2. THIS DOCUMENT MAY ONLY BE USED WITH THE EXPRESS WRITTEN CONSENT OF THE MANUFACTURER LISTED ABOVE FOR THE SPECIFIC PROJECT SITE AND INSTALLATION LOCATION. THIS DOCUMENT IS INVALID WITHOUT SUCH CONSENT.
3. THIS PREAPPROVAL CONFORMS TO THE 2025 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN 2.30 & 2.50.
4. FORCES PER ASCE 7-22 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3,
WHERE $S_{Ds}=2.30, I_p=1.5, C_{AR}=1.0, R_{po}=1.5, z/h=0, (R_{\mu}=1.0, H_f=1.0)$ AT CONCRETE SLAB AT OR BELOW GRADE. SEE FOLLOWING SHEETS FOR Ω_{op}
WHERE $S_{Ds}=2.50, I_p=1.5, C_{AR}=1.0, R_{po}=1.5, z/h \leq 0.95, (R_{\mu}=1.3, H_f=3.375)$ AT CONCRETE SLAB ON METAL DECK.
SEE FOLLOWING SHEETS FOR Ω_{op}
5. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
6. ALL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.
7. CONCRETE SLAB ON METAL DECK DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION IN THE BUILDING. (i.e. $z/h \leq 0.95$)
8. CONCRETE SLAB DETAIL VALID FOR DEMANDS SHOWN AT OR BELOW GRADE. (i.e. $z/h = 0$)

9. RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING

- A. PROVIDE SUPPORTING STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN IN ADDITION TO ALL OTHER LOADS.
- B. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2025 CBC AND WITH THE DETAILS, MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PREAPPROVAL DOCUMENTS.
- C. VERIFY THAT PROJECT SPECIFIC SEISMIC PARAMETERS RESULT IN SEISMIC FORCES (E_h, E_v) THAT DO NOT EXCEED THE VALUES IN THIS OPM.
- D. VERIFY THAT THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE REQUIREMENTS OF THE APPLICABLE ICC ESR REPORT AND THIS OPM.
- E. VERIFY THAT THE ANCHORS ARE AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS (SEE TYPICAL DETAIL ON SHEET 2).
- F. VERIFY THAT ALL NEW OR EXISTING ANCHORS ARE AN ADEQUATE DISTANCE FROM THE UNIT ATTACHMENTS AND CHECK FOR INTERACTION WHERE OTHER ANCHORS ARE WITHIN 18" OR $6h_{ef}$ FROM THIS UNIT'S ANCHORS.



BELIMED INFECTION CONTROL

MST-H 10.02 HSX Option GR

DES. **J. ROBERSON**

JOB NO. **11-2518**

DATE **2/18/26**

SHEET

2

OF **12** SHEETS

10. EXPANSION ANCHORS:

- A. ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

Anchor Diameter	Concrete Type	Min. f'c (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Torque Test	Direct Tension Test
1/2"	Sand Light Weight	3000	Hilti Kwik Bolt TZ2 (CARBON STEEL)	ESR-4266	2.5"	7.50"	12"	See Detail "A"	50 FT-LB	N/A
5/8"	Normal Weight	3000	Hilti Kwik Bolt TZ2 (STAINLESS STEEL)	ESR-4266	3.25"	7"	36"	6"	60 FT-LB	3527 lb

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 36" AWAY MINIMUM (i.e. - CORNER). SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE EDGE DISTANCES.

- C. TESTING AND SPECIAL INSPECTION OF EXPANSION ANCHORS SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY EMPLOYED BY THE FACILITY OWNER PER CBC 1704A & 1910A.5 AND CAC 7-149. ALL REPORTS SHALL BE SENT TO THE INSPECTOR OF RECORD, OWNER AND THE ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE.

(i) DIRECT PULL TENSION TEST OR TORQUE TEST AT LEAST 50% OF THE ANCHORS.

(ii) ACCEPTANCE CRITERIA:

- DIRECT TENSION TEST: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE TEST LOAD. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER BECOMES LOOSE.
- TORQUE TEST: THE APPLICABLE TORQUE MUST BE ACHIEVED WITHIN THE FOLLOWING LIMITS: WEDGE TYPE : 1/2 TURN OF THE NUT

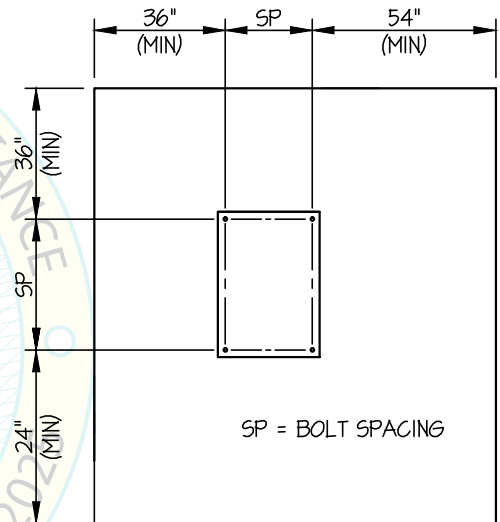
(iii) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.

- D. AVOID DAMAGING EXISTING STEEL REINFORCING IN CONCRETE SLAB WHEN INSTALLING CONCRETE EXPANSION ANCHORS.

- E. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER.

11. BOLTS THROUGH CONCRETE ON METAL DECK

- A. BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUTS AFTER THE SNUG TIGHT (THE SNUG-TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT) CONDITION IS ACHIEVED, UNLESS OTHERWISE NOTED.
- B. THROUGH BOLT HOLES SHALL BE 1/16" LARGER THAN BOLT SIZE (HOLE SIZE = BOLT SIZE + 1/16) FOR CONCRETE.
- C. THROUGH-BOLTS IN CONCRETE SHALL RECEIVE SPECIAL INSPECTION AND TESTING (THROUGH BOLTS WITH STEEL TO STEEL CONNECTION IN TENSION DO NOT REQUIRE TENSION TESTING) IN ACCORDANCE WITH REQUIREMENTS FOR POST-INSTALLED ANCHORS.



TYPICAL CONCRETE EDGE DETAIL
(SLAB ON GRADE ONLY)



BELIMED INFECTION CONTROL

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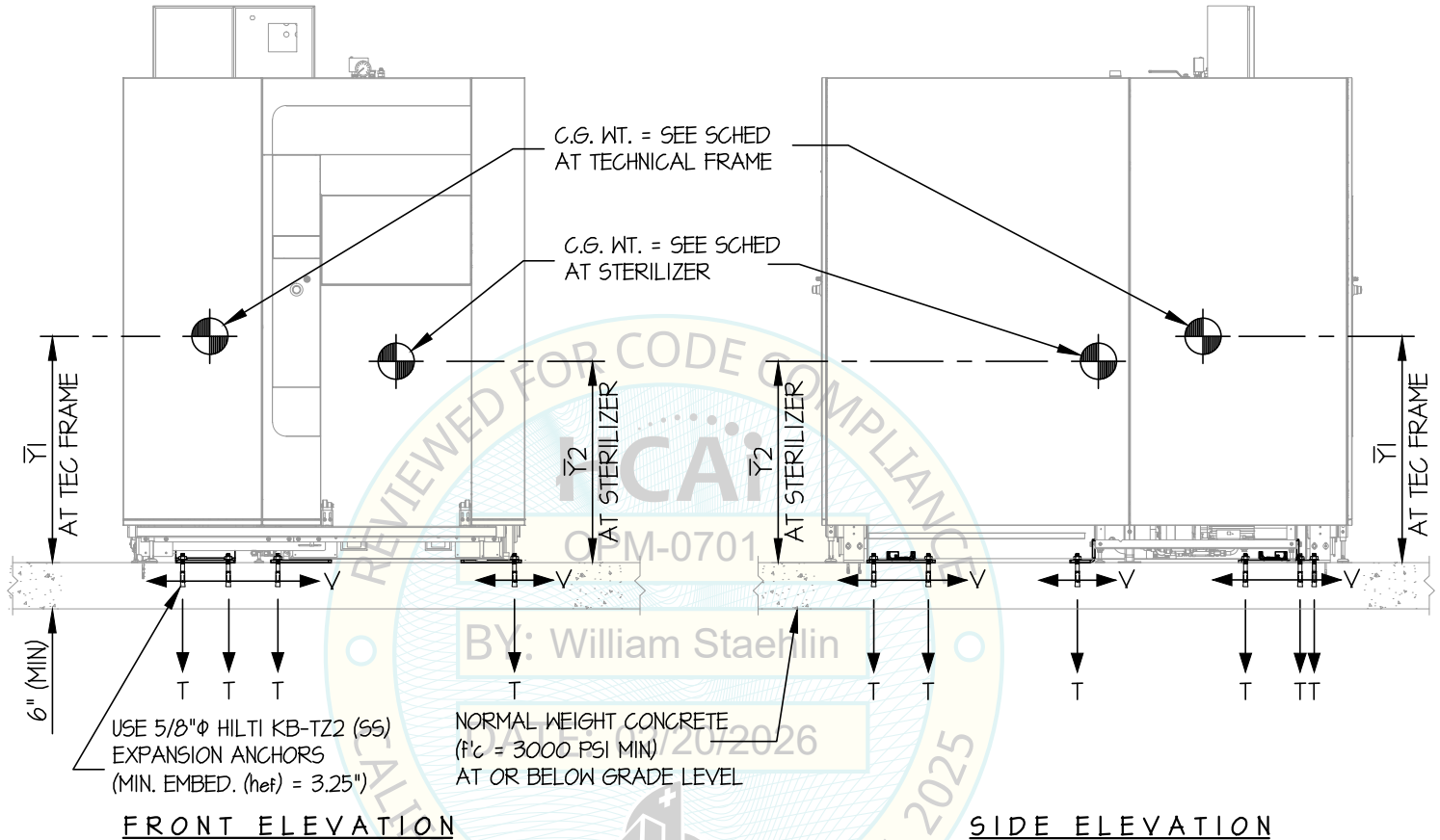
SHEET

3

OF 12 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB AT OR BELOW GRADE



NOTES:

- FORCES ARE DETERMINED PER 2025 CALIFORNIA BUILDING CODE AND ASCE 7-22. STRENGTH DESIGN IS USED. (EXAMPLE: $S_{ds}=2.30$, $I_p=1.5$, $CAR=1.0$, $R_{po}=1.5$, $\Omega_{op}=2.0$, $R_{Uj}=1.0$, $H_f=1.0$, $z/h=0$)
 HORIZONTAL FORCE (E_h) = $1.035 W_p$
 HORIZONTAL FORCE (E_{mh}) = $2.07 W_p$ (FOR CONCRETE ANCHORAGE)
 VERTICAL FORCE (E_v) = $0.46 W_p$

- THIS PREAPPROVAL ENCOMPASSES WEIGHTS AND VERTICAL C.G. POSITIONS NOT EXCEEDING VALUES SHOWN.
- THIS PREAPPROVAL WAS PREPARED WITHOUT KNOWLEDGE OF ANY SITE CONDITION. COMPATIBILITY FOR USE WITH A SITE SHALL BE EVALUATED BY THE STRUCTURAL ENGINEER OF RECORD OF THE INSTALLATION (SEOR). USE REQUIRES APPROVAL BY THE SEOR.
- STRUCTURAL ENGINEER OF RECORD FOR THE INSTALLATION SHALL VERIFY ALL CONDITIONS, EVALUATE INTERACTION WITH ADJACENT EQUIPMENT AND ANCHORS, AND PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
- SEE GENERAL NOTES: SHEETS 1 AND 2



BELIMED INFECTION CONTROL

MST-H 10.02 HSX Option GR

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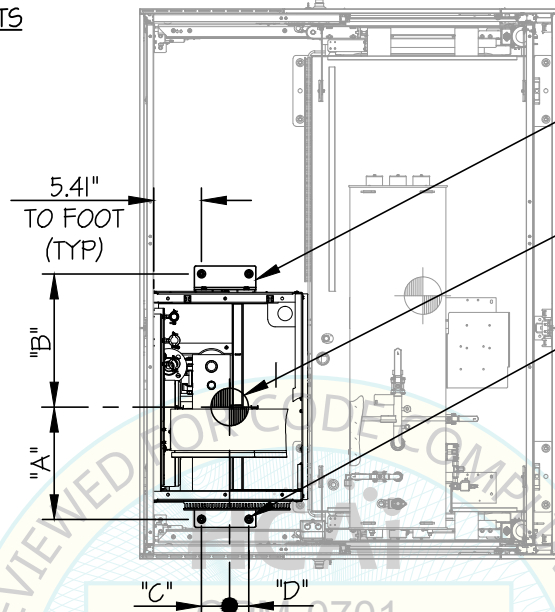
DATE **2/18/26**

SHEET

4

OF **12** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS



CONCRETE SLAB AT OR BELOW GRADE

MFR BRACKET
(SEE SHEET 10)
(2 TOTAL)

C.G. WT. = SEE SCHED
AT TECHNICAL FRAME

USE (4)- 5/8"Φ HILTI KB-TZ2 (SS)
EXPANSION ANCHORS
(MIN. EMBED. (h_{ef}) = 3.25")

PLAN AT BASE
(AT TECHNICAL FRAME)

UNIT NUMBER	TECHNICAL FRAME WEIGHT (lb.)	\bar{Y}_1 (in.)	"A" (in.)	"B" (in.)	"C" (in.)	"D" (in.)	⁺ T _u (lb.)	⁺ V _u (lb.)
9-6-12 HS1	685	36.1	19.37	21.57	2.00	5.87	2207	641
9-6-15 HS1	770	38.4	19.24	21.71	2.08	5.79	2659	713
9-6-18 HS1	770	38.4	19.24	21.71	2.08	5.79	2659	713
9-6-12 HS2	685	36.1	19.37	21.57	2.00	5.87	2207	641
9-6-15 HS2	770	38.4	19.24	21.71	2.08	5.79	2659	713
9-6-18 HS2	770	38.4	19.24	21.71	2.08	5.79	2659	713

+ (VALUES INCLUDE Ω_{cp})



BELIMED INFECTION CONTROL

MST-H 10.02 HSX Option GR

DES. J. ROBERSON

JOB NO. 11-2518

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SHEET

5

OF 12 SHEETS

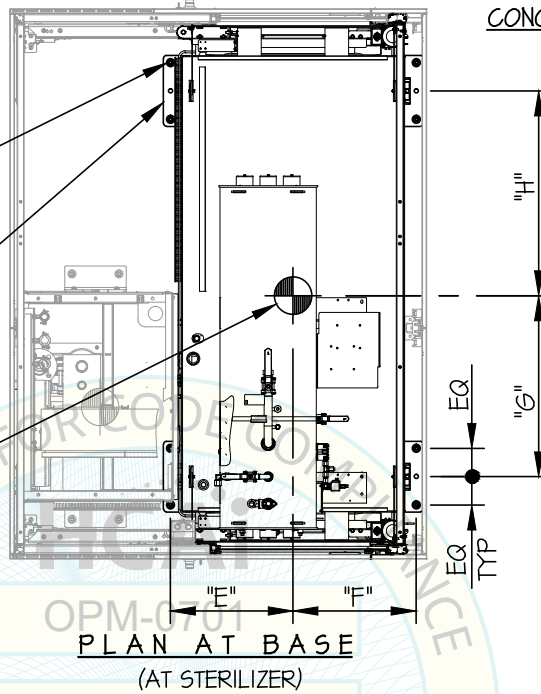
SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB AT OR BELOW GRADE

USE (Ø)- 5/8"Ø HILTI KB-TZ2 (SS)
EXPANSION ANCHORS
(MIN. EMBED. (het) = 3.25")

MFR BRACKET
(SEE SHEET 11 & 12)
(EACH CORNER, 4 TOTAL)

C.G. WT. = SEE SCHED
AT STERILIZER FRAME



UNIT NUMBER	STERILIZER WEIGHT (lb.)	Y2 (in.)	"E" (in.)	"F" (in.)	"G" (in.)	"H" (in.)	+ Tu (lb.)	+ Vu (lb.)
9-6-12 HS1	3826	35.7	18.10	22.87	14.27	25.77	2510	1606
9-6-15 HS1	4306	35.2	18.38	22.59	19.13	33.04	2592	1780
9-6-18 HS1	4758	34.8	18.47	22.50	24.13	40.16	2693	1994
9-6-12 HS2	4486	35.0	18.08	22.89	19.43	20.61	2596	1656
9-6-15 HS2	4964	34.7	18.32	22.65	24.76	27.41	2536	1825
9-6-18 HS2	5418	34.3	18.37	22.60	30.16	34.13	2638	1993

+ (VALUES INCLUDE Ω_{sp})



BELIMED INFECTION CONTROL

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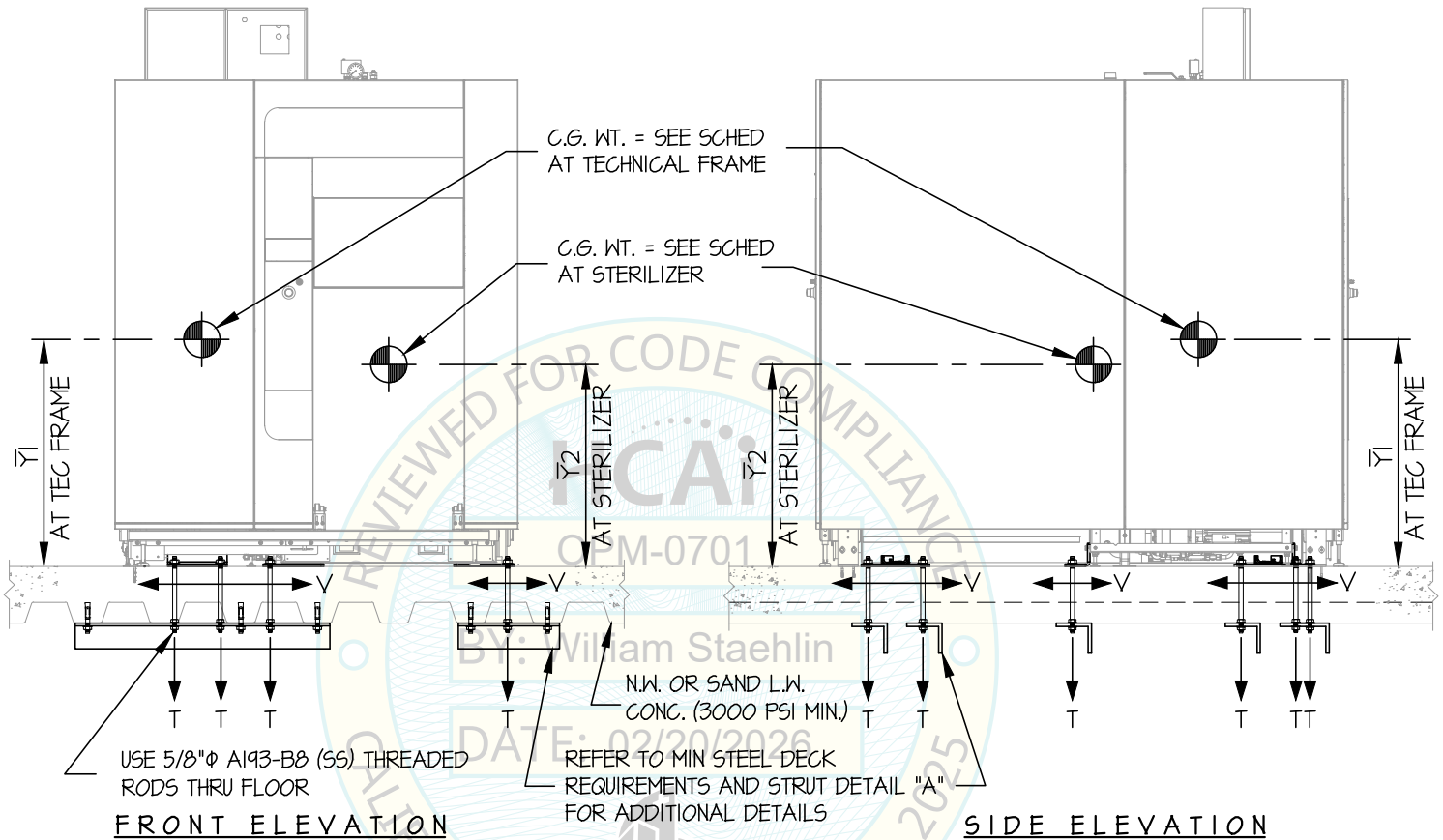
SHEET

6

OF 12 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



NOTES:

- FORCES ARE DETERMINED PER 2025 CALIFORNIA BUILDING CODE AND ASCE 7-22. STRENGTH DESIGN IS USED. (EXAMPLE: $S_{ds}=2.50$, $I_p=1.5$, $CAR=1.0$, $R_{po}=1.5$, $\Omega_{op}=2.0$, $R_U=1.3$, $H_f=3.375$, $z/h \leq 0.95$)
 HORIZONTAL FORCE (E_h) = 2.60 W_p
 HORIZONTAL FORCE (E_{mh}) = 5.20 W_p (FOR CONCRETE ANCHORAGE)
 VERTICAL FORCE (E_v) = 0.50 W_p
- THIS PREAPPROVAL ENCOMPASSES WEIGHTS AND VERTICAL C.G. POSITIONS NOT EXCEEDING VALUES SHOWN.
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- SEE GENERAL NOTES: SHEETS 1 AND 2



BELIMED INFECTION CONTROL

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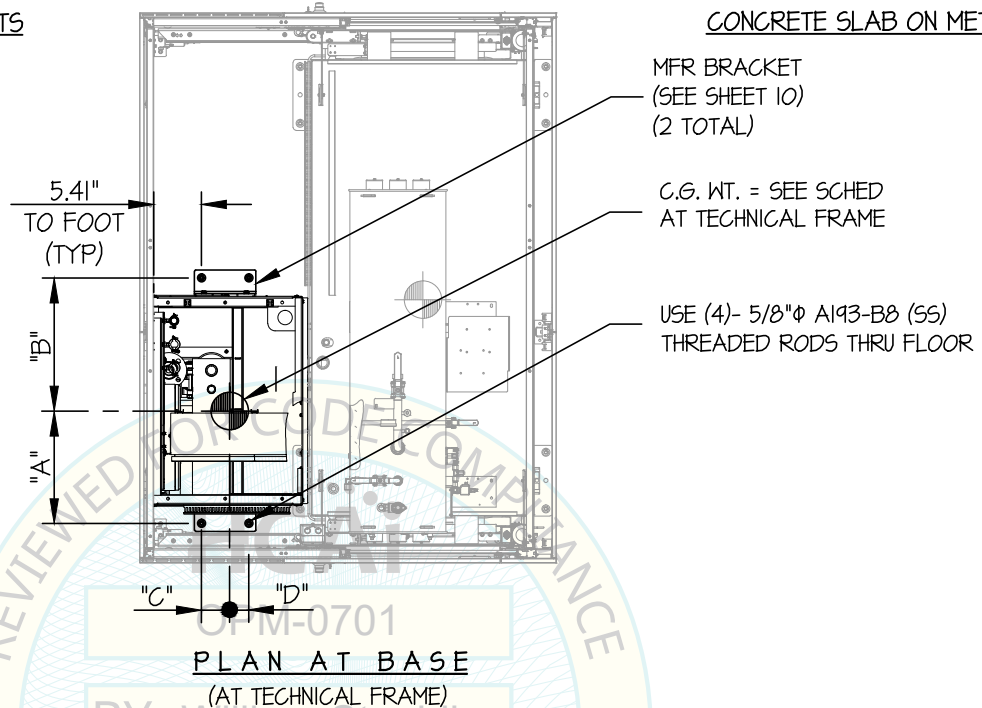
SHEET

7

OF **12** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



UNIT NUMBER	TECHNICAL FRAME WEIGHT (lb.)	Y1 (in.)	"A" (in.)	"B" (in.)	"C" (in.)	"D" (in.)	⁺ Tu (lb.)	⁺ Vu (lb.)
9-6-12 HS1	685	36.1	19.37	21.57	2.00	5.87	2795	805
9-6-15 HS1	770	38.4	19.24	21.71	2.08	5.79	3363	896
9-6-18 HS1	770	38.4	19.24	21.71	2.08	5.79	3363	896
9-6-12 HS2	685	36.1	19.37	21.57	2.00	5.87	2795	805
9-6-15 HS2	770	38.4	19.24	21.71	2.08	5.79	3363	896
* 9-6-18 HS2	770	38.4	19.24	21.71	2.08	5.79	3363	896

+ (VALUES DO NOT INCLUDE Ω_{op})



BELIMED INFECTION CONTROL

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DATE **2/18/26**

SHEET

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OF **12** SHEETS

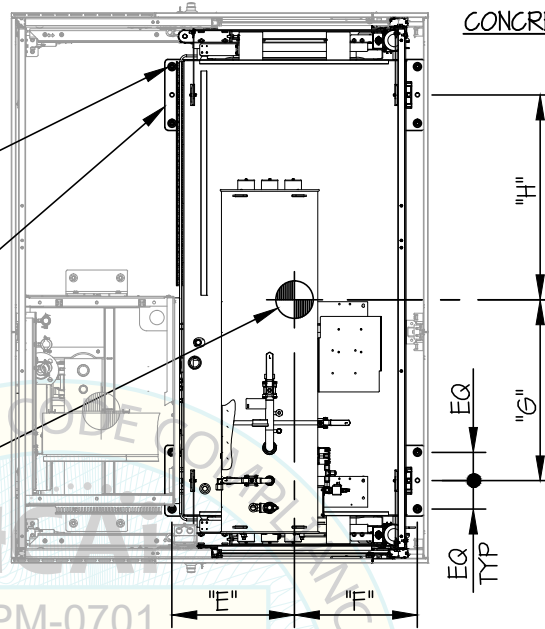
SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK

USE (8)- 5/8"φ A193-B8 (SS)
THREADED RODS THRU FLOOR

MFR BRACKET
(SEE SHEET 11 & 12)
(EACH CORNER, 4 TOTAL)

C.G. WT. = SEE SCHED
AT STERILIZER FRAME



PLAN AT BASE
(AT STERILIZER)

BY: William Staehlin

UNIT NUMBER	STERILIZER WEIGHT (lb.)	Y2 (in.)	"E" (in.)	"F" (in.)	"G" (in.)	"H" (in.)	+ Tu (lb.)	+ Vu (lb.)
9-6-12 HS1	3826	35.7	18.10	22.87	14.27	25.77	3257	2017
9-6-15 HS1	4306	35.2	18.38	22.59	19.13	33.04	3370	2236
9-6-18 HS1	4758	34.8	18.47	22.50	24.13	40.16	3507	2441
9-6-12 HS2	4486	35.0	18.08	22.89	19.43	20.61	3359	2079
9-6-15 HS2	4964	34.7	18.32	22.65	24.76	27.41	3295	2292
9-6-18 HS2	5418	34.3	18.37	22.60	30.16	34.13	3435	2504

+ (VALUES DO NOT INCLUDE Ω_{cp})



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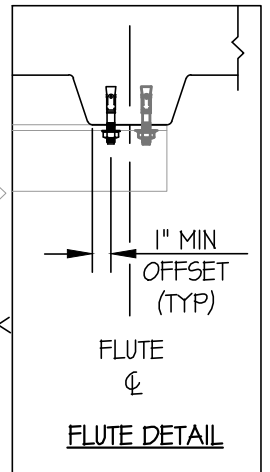
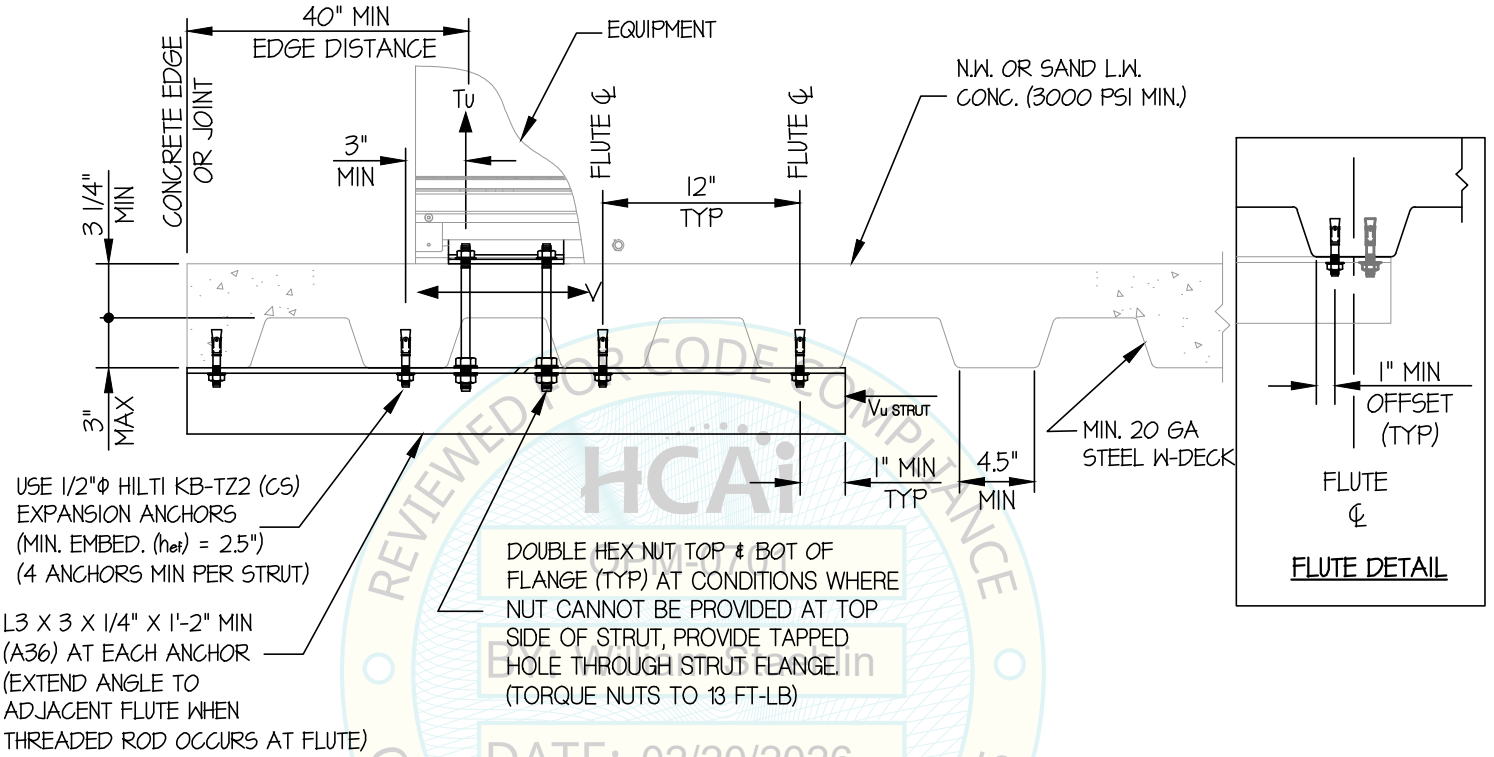
SHEET

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OF **12** SHEETS

SEISMIC ANCHORAGE

CONCRETE DETAILS



MIN STEEL DECK REQUIREMENTS AND STRUT DETAIL (A)

Jonathan Roberson
REGISTERED PROFESSIONAL ENGINEER
No. 4197
EXP. 6-30-2026
2/18/26
STRUCTURAL
STATE OF CALIFORNIA

BELIMED INFECTION CONTROL

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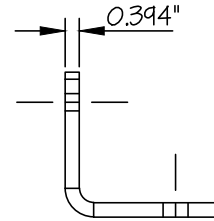
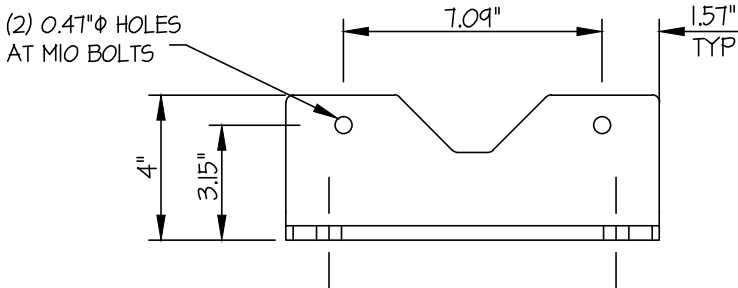
SHEET

10

OF **12** SHEETS

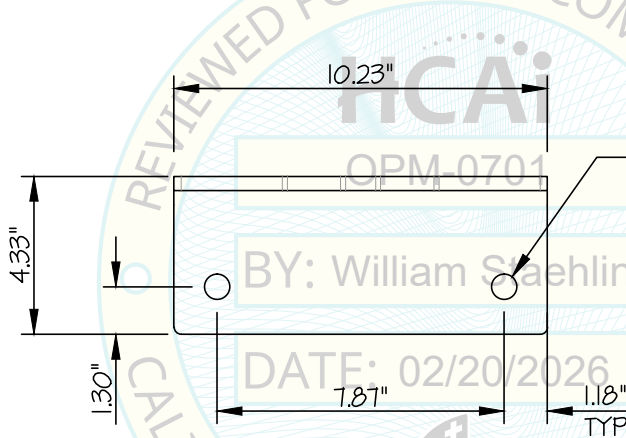
SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAILS



FRONT

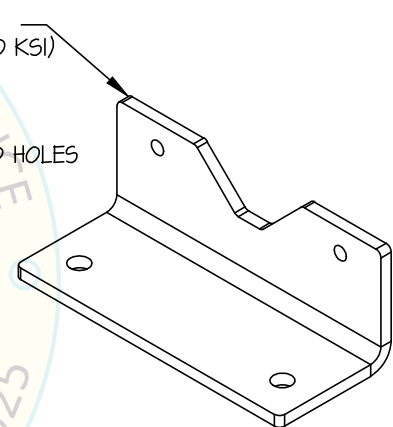
SIDE



304 SS
(F_y = 30 KSI)

(2) 0.69" ϕ HOLES

PLAN



ISOMETRIC

BRACKET AT TECHNICAL FRAME
(PROVIDED BY BELIMED)



BELIMED INFECTION CONTROL

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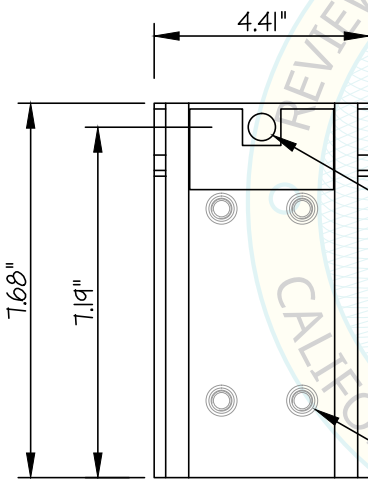
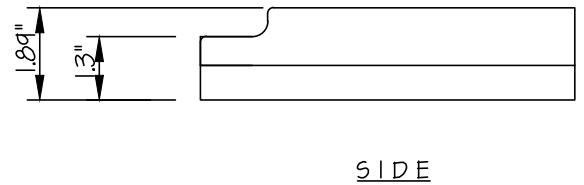
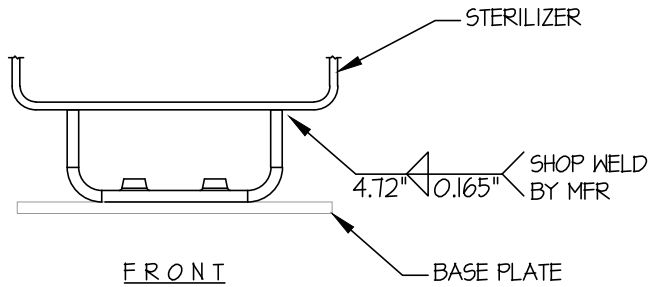
SHEET

11

OF **12** SHEETS

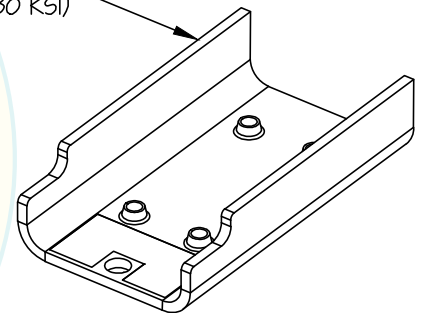
SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAILS



10mm (304) FLAT HEAD M. SCREWS
THROUGH THREADED HOLES
(TORQUE TO 16 FT-LB
OR USE LOCTITE OR SIMILAR)
(4 PLACES)

316 SS
($F_y = 30$ KSI)



BRACKET AT STERILIZER
(PROVIDED BY BELIMED)



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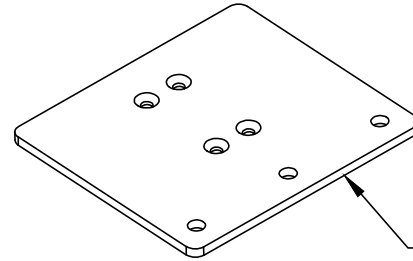
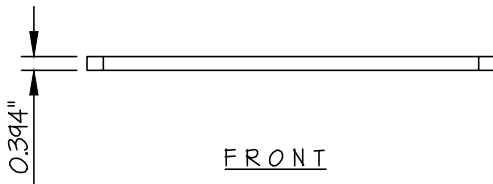
SHEET

12

OF **12** SHEETS

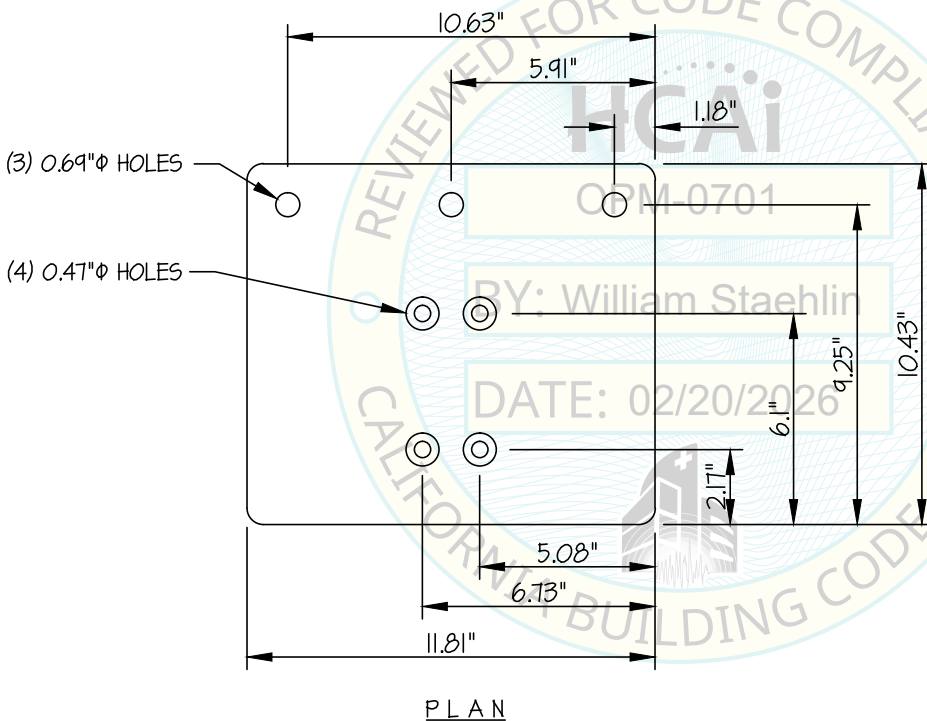
SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAILS



AISI 329 (SS)
($F_y = 65$ KSI)

ISOMETRIC
(BOTTOM OF PLATE SHOWN)



BRACKET BASE PLATE AT STERILIZER
(PROVIDED BY BELIMED)

Jonathan Roberson

REGISTERED PROFESSIONAL ENGINEER
JONATHAN ROBERSON
No. 4197
EXP. 6-30-2026
2/18/26
STRUCTURAL
STATE OF CALIFORNIA