



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY

APPLICATION #: OPM-0073

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: [] New [X] Renewal/Update

Manufacturer Information

Manufacturer: Steris Corporation

Manufacturer's Technical Representative: Zach Miday

Mailing Address: 5900 Heisley Rd., Mentor, OH 44060

Telephone: (440) 392-7688

Email: Zach_Miday@steris.com

Product Information

Product Name: Amsco 400, Evolution and 630 LS Series Sterilizers

Product Type: Other Electrical & Mechanical Components

Product Model Number: Amsco 400: 36SD, 48SD, 60SD, 36 DD, 48DD, 60 DD; Evolution: 42SD 54SD 66SD 42DD 54DD, 66DD; 630LS: 42SD, 54SD 66SD 42DD 54DD 66DD

General Description: Sterilizer used to sanitize medical instruments

Applicant Information

Applicant Company Name: EASE LLC.

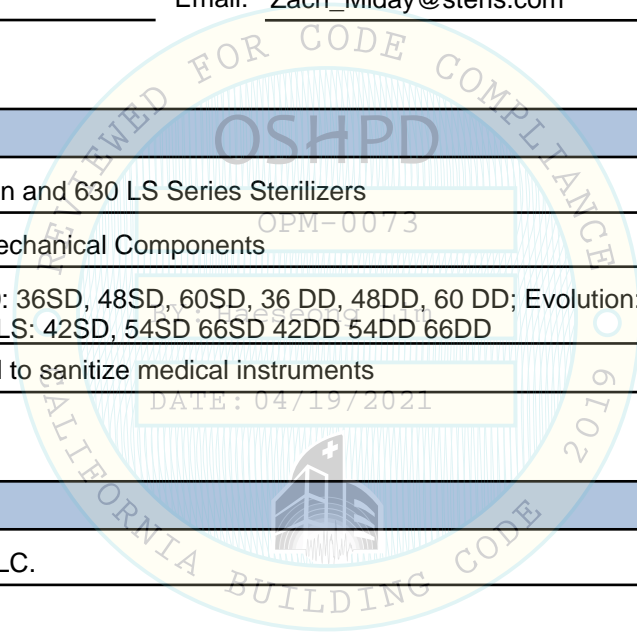
Contact Person: Tiffany Tonn

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

Telephone: (406) 541-3273

Email: tiffany@easeco.com

Title:





**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

Registered Design Professional Preparing Engineering Recommendations

Company Name: EASE LLC

Name: Jonathan Roberson

California License Number: 4197

Mailing Address: 5877 Pine Avenue, Suite 210, Chino Hills, CA 91709

Telephone: (909) 606-7622

Email: j.roberson@easeco.com

OSHPD Special Seismic Certification Preapproval (OSP)

Special Seismic Certification is preapproved under OSP

OSP Number: _____

Certification Method

Testing in accordance with: ICC-ES AC156 FM 1950-16

Other(s) (Please Specify): _____

*Use of criteria other than those adopted by the California Building Standards Code, 2019 (CBSC 2019) 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 2019 may be used when approved by OSHPD prior to testing.

Analysis

Experience Data

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

OSHPD Approval

Date: 4/19/2021

Name: Haeseong Lim

Title: Senior Structural Engineer

Condition of Approval (if applicable): _____





**EQUIPMENT ANCHORAGE
& SEISMIC ENGINEERING**

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

Office of Statewide Health Planning and Development
PREAPPROVAL OF MANUFACTURER'S CERTIFICATION
OPM-0073

THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE

MANUFACTURER: **STERIS CORPORATION**
EQUIPMENT NAME: **AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS**

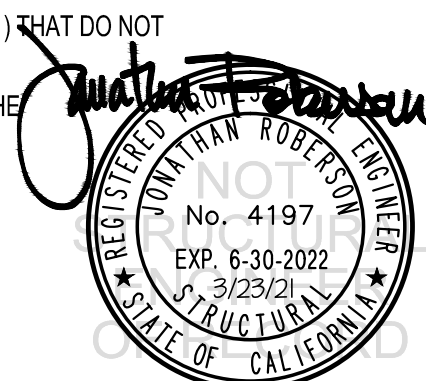
Sheet: 1 of 13
Date: 3/23/21

GENERAL NOTES

1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2019 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2019 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 2019 CALIFORNIA BUILDING CODE WHERE S_{ds} IS NOT GREATER THAN 1.50, 1.70, 2.00 & 2.20. SEE DETAIL FOR APPLICABILITY
4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3,
WHERE $S_{ds} = 1.50, 1.70, a_p = 1.0, I_p = 1.5, R_p = 1.5, z/h = 0$ AT CONCRETE SLAB. SEE FOLLOWING SHEETS FOR Ω_o
WHERE $S_{ds} = 2.20, a_p = 1.0, I_p = 1.5, R_p = 1.5, z/h = 0$ AT CONCRETE SLAB. SEE FOLLOWING SHEETS FOR Ω_o
WHERE $S_{ds} = 2.00, a_p = 1.0, I_p = 1.5, R_p = 1.5, z/h = 0$ AT CONCRETE SLAB & $z/h \leq 1$ AT CONCRETE SLAB ON METAL DECK.
SEE FOLLOWING SHEETS FOR Ω_o
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. $z/h \leq 1$)
8. CONCRETE SLAB DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION 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 2019 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 VALUES OF S_{ds} & z/h RESULT IN SEISMIC FORCES (E_h, E_v) THAT DO NOT EXCEED THE VALUES ON THE DETAILS.
- D. VERIFY THAT THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE REQUIREMENTS OF THE APPLICABLE ICC ESR. 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.



STERIS CORPORATION

DES. **J. ROBERSON**

SHEET

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AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

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OF **13** 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
1/2"	Sand Light Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	3.25"	9.75"	24"	See Detail "A"	40 FT-LB	N/A
3/8"	Normal Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	1-1/2"	8"	12"	3-1/4"	25 FT-LB	883 lb
3/4"	Normal Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	3-3/4"	15"	27"	6"	110 FT-LB	4120 lb
3/4"	Normal Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	4-3/4"	15"	27"	8"	110 FT-LB	5874 lb

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 12" OR 27" (SEE SCHEDULE) 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) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, 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

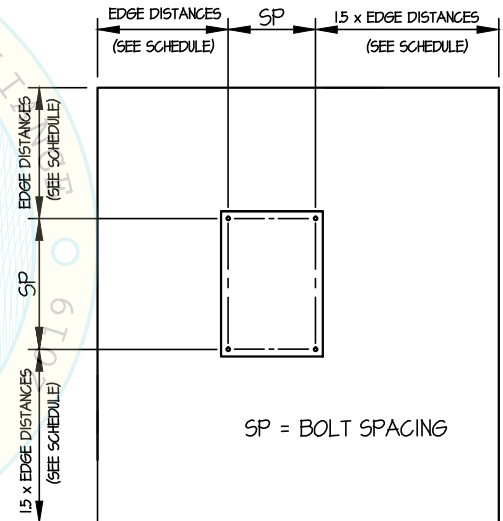
- (iii) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.

- 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



STERIS CORPORATION

AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

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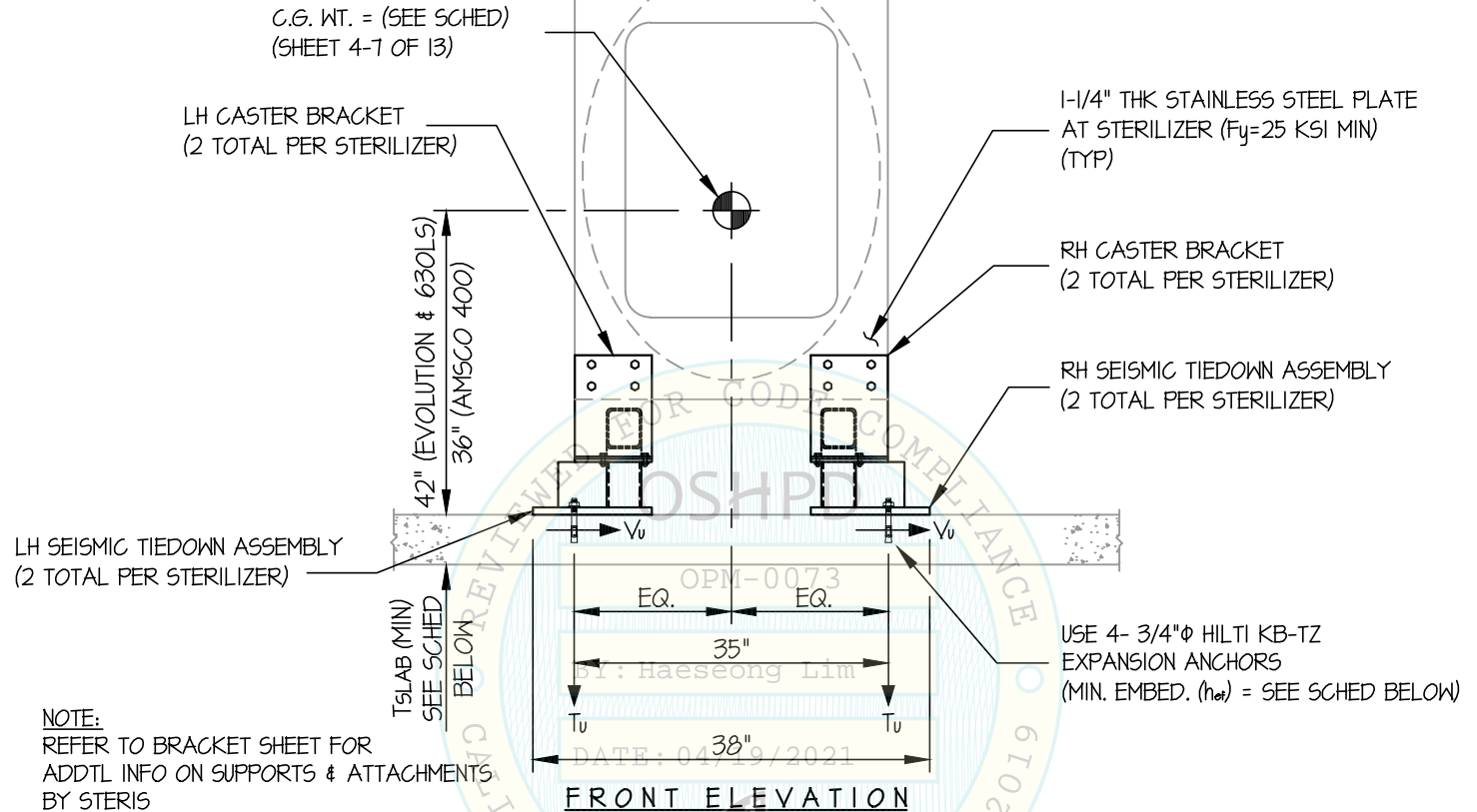
SHEET

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OF **13** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB



ANCHORS						
MAX Sds	TYPE	DIAM	EFF EMBED	QTY	TSLAB	MODEL
1.50	HILTI KB-TZ	3/4"	3.75"	4	6"	AMSCO 400
1.70	HILTI KB-TZ	3/4"	3.75"	4	6"	EVOLUTION & 630LS
2.00	HILTI KB-TZ	3/4"	4.75"	4	8"	AMSCO 400
2.20	HILTI KB-TZ	3/4"	4.75"	4	8"	EVOLUTION & 630LS

NOTES:

- FORCES ARE DETERMINED PER 2019 CALIFORNIA BUILDING CODE AND ASCE 7-16 STRENGTH DESIGN IS USED. ($\alpha_p = 1.0$, $l_p = 1.5$, $R_p = 1.5$, $\Omega_o = 1.5$, $z/h = 0$)
- CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN, IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.



STERIS CORPORATION

AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

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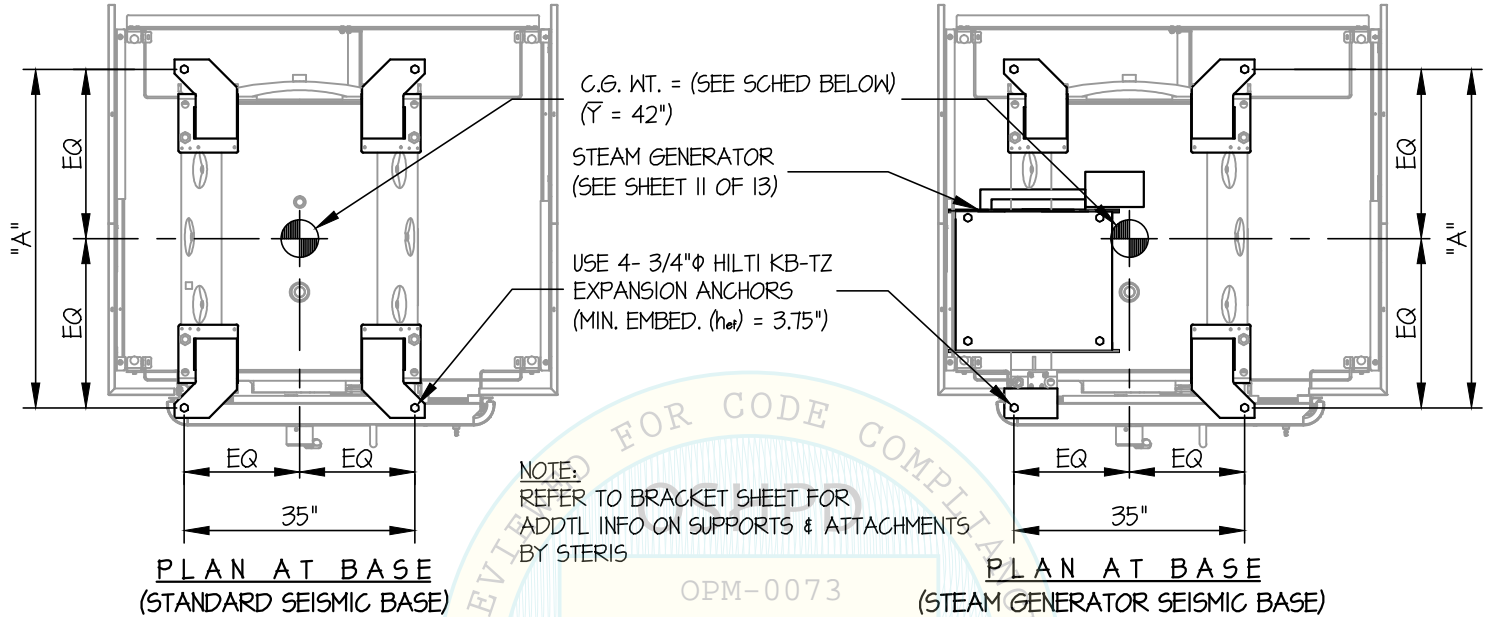
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OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

$S_Ds \leq 1.10, z/h = 0$

CONCRETE SLAB



MODEL	UNIT SIZE	WEIGHT (LB)	DIM. "A" (IN.)	* T _u (LB/BOLT)	* V _u (LB/BOLT)
EVOLUTION & 630LS 42 SD	65 X 91.25 X 77.25	3800	51.375	2626	1420
EVOLUTION & 630LS 54 SD	77 X 91.25 X 77.25	4200	63.375	2790	1570
EVOLUTION & 630LS 66 SD	89 X 91.25 X 77.25	4700	75.375	3037	1757
EVOLUTION & 630LS 42 DD	62.25 X 91.25 X 77.25	3800	51.875	2621	1420
EVOLUTION & 630LS 54 DD	65.25 X 91.25 X 77.25	4200	63.875	2786	1570
EVOLUTION & 630LS 66 DD	77.25 X 91.25 X 77.25	4700	75.875	3034	1757

* VALUES INCLUDE Ω_s



STERIS CORPORATION

AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

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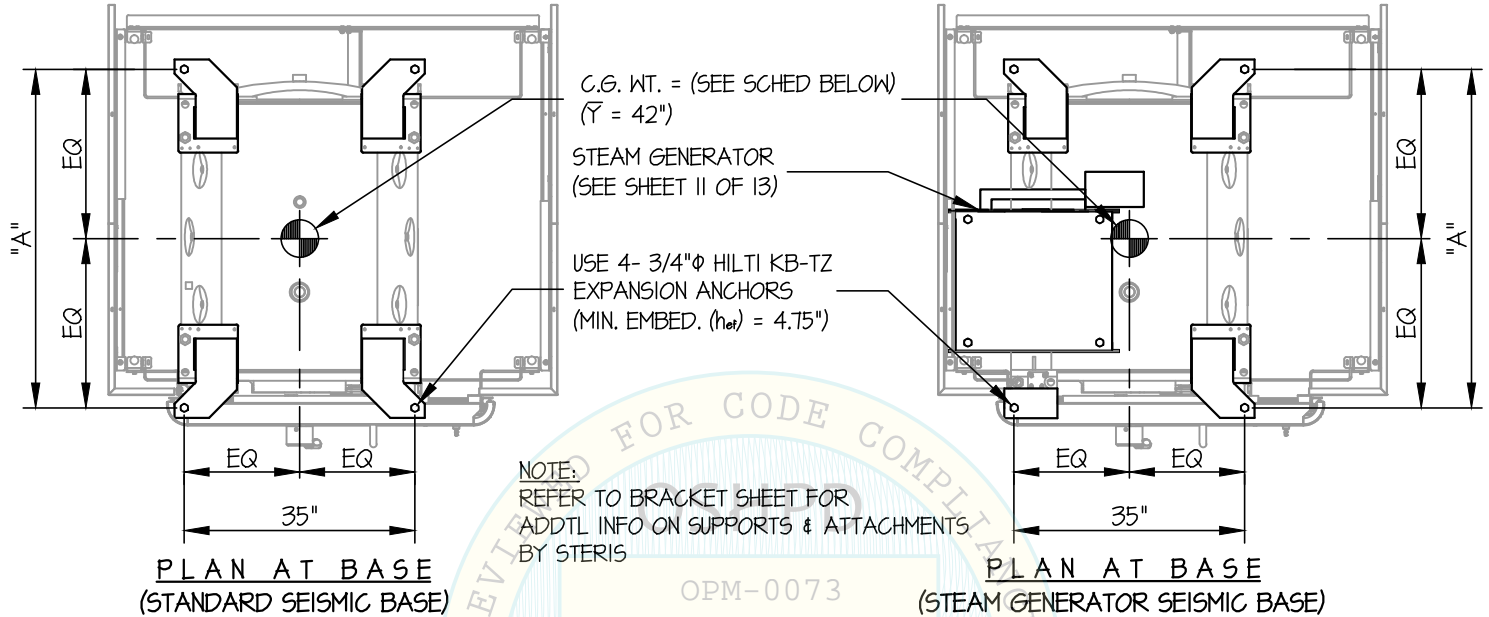
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OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

$S_{Ds} \leq 2.20, z/h = 0$

CONCRETE SLAB



MODEL	UNIT SIZE	WEIGHT (LB)	DIM.T"A" (IN.)	* T_u (LB/BOLT)	* V_u (LB/BOLT)
EVOLUTION & 630LS 42 SD	65 X 91.25 X 77.25	3800	51.375	3655	1840
EVOLUTION & 630LS 54 SD	77 X 91.25 X 77.25	4200	63.375	3894	2034
EVOLUTION & 630LS 66 SD	89 X 91.25 X 77.25	4700	75.375	4247	2276
EVOLUTION & 630LS 42 DD	62.25 X 91.25 X 77.25	3800	51.875	3648	1840
EVOLUTION & 630LS 54 DD	65.25 X 91.25 X 77.25	4200	63.875	3889	2034
EVOLUTION & 630LS 66 DD	77.25 X 91.25 X 77.25	4700	75.875	4243	2276

* VALUES INCLUDE Ω .



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AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

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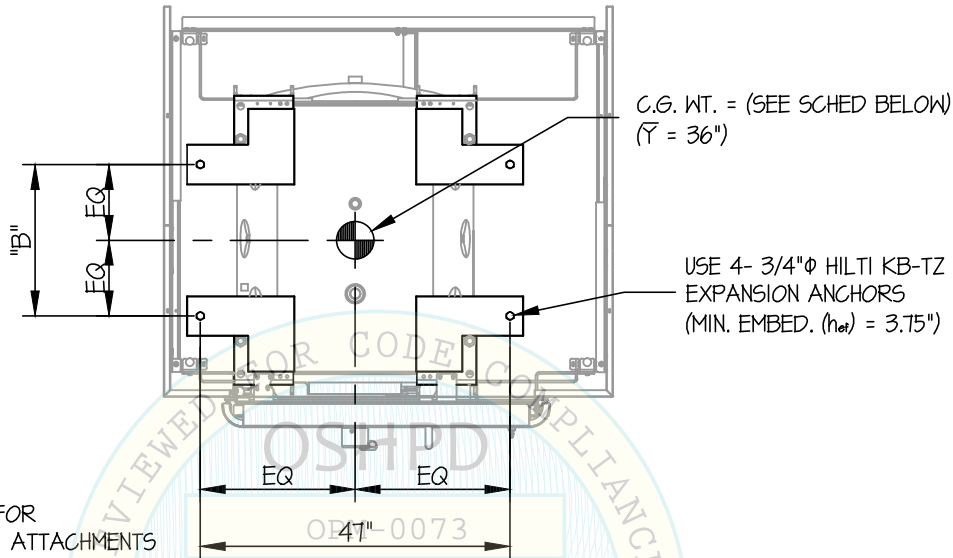
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OF **13** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

$Sds \leq 1.50, z/h = 0$

CONCRETE SLAB



NOTE:
REFER TO BRACKET SHEET FOR
ADDTL INFO ON SUPPORTS & ATTACHMENTS
BY STERIS

PLAN AT BASE
BY: Haeseong Lim

MODEL	UNIT SIZE	WEIGHT (LB)	DIM. "B" (IN.)	* T_u (LB/BOLT)	* V_u (LB/BOLT)
AMSCO 400 36 SD	63.5 X 70 X 75.25	3800	23	2875	1247
AMSCO 400 48 SD	75.5 X 70 X 75.25	4200	35	2039	1379
AMSCO 400 60 SD	87.5 X 70 X 75.25	4700	47	1658	1543
AMSCO 400 36 DD	62.25 X 70 X 75.25	3800	23.5	2811	1247
AMSCO 400 48 DD	74.25 X 70 X 75.25	4200	35.5	2008	1379
AMSCO 400 60 DD	86.25 X 70 X 75.25	4700	47.5	1653	1543

* VALUES INCLUDE Ω_s



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AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

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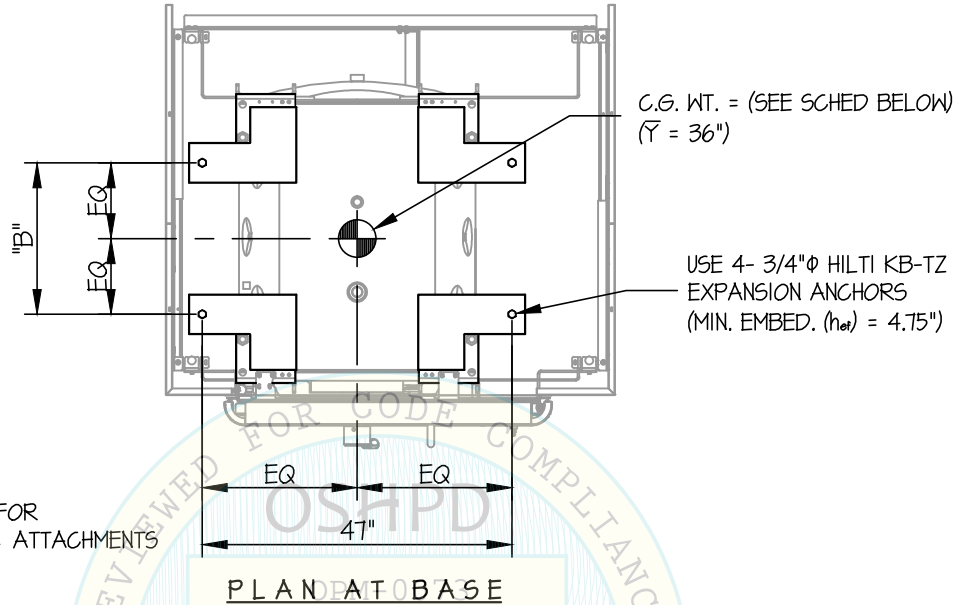
DATE **3/23/21**

OF **13** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

$S_D \leq 2.00, z/h = 0$

CONCRETE SLAB



MODEL	UNIT SIZE	WEIGHT (LB)	DIM. "B" (IN.)	* T_u (LB/BOLT)	* V_u (LB/BOLT)
AMSCO 400 36 SD	63.5 X 70 X 75.25	3800	23	4129	1667
AMSCO 400 48 SD	75.5 X 70 X 75.25	4200	35	3042	1843
AMSCO 400 60 SD	87.5 X 70 X 75.25	4700	47	2512	2062
AMSCO 400 36 DD	62.25 X 70 X 75.25	3800	23.5	4044	1667
AMSCO 400 48 DD	74.25 X 70 X 75.25	4200	35.5	3001	1843
AMSCO 400 60 DD	86.25 X 70 X 75.25	4700	47.5	2564	2062

* VALUES INCLUDE Ω_o



STERIS CORPORATION

DES. J. ROBERSON

SHEET

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AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

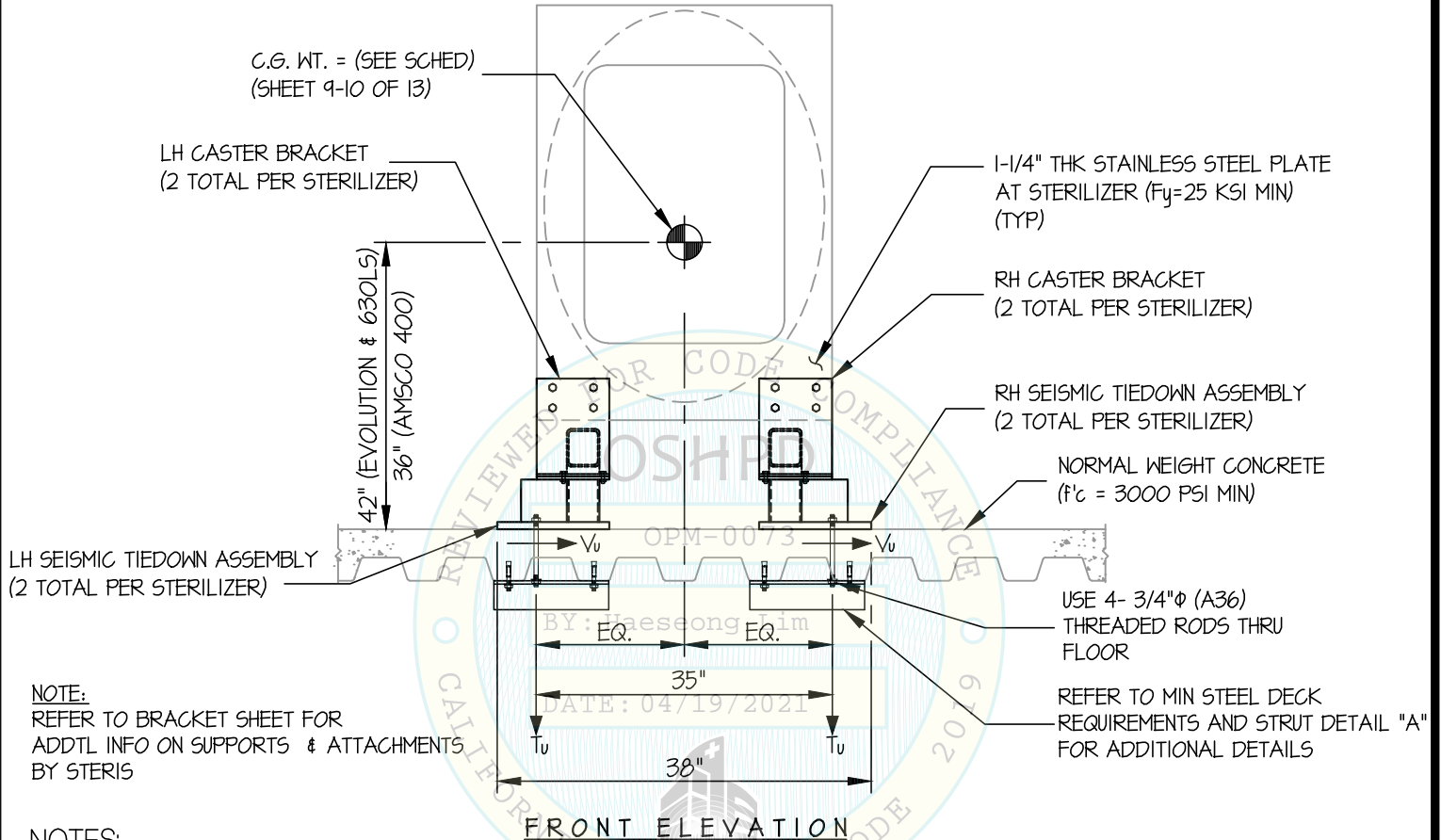
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OF 13 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



NOTE:
REFER TO BRACKET SHEET FOR
ADDTL INFO ON SUPPORTS & ATTACHMENTS
BY STERIS

NOTES:

1. FORCES ARE DETERMINED PER 2019 CALIFORNIA BUILDING CODE AND ASCE 7-16.

STRENGTH DESIGN IS USED. (S_{DS} = 2.00, α_p = 1.0, I_p = 1.5, R_p = 1.5, Ω_o = 1.5, z/h ≤ 1)

HORIZONTAL FORCE (E_h) = 2.40 W_p

HORIZONTAL FORCE (E_{mh}) = 3.60 W_p (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (E_v) = 0.40 W_p

2. CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN.
THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.

3. STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE
SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES
SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT



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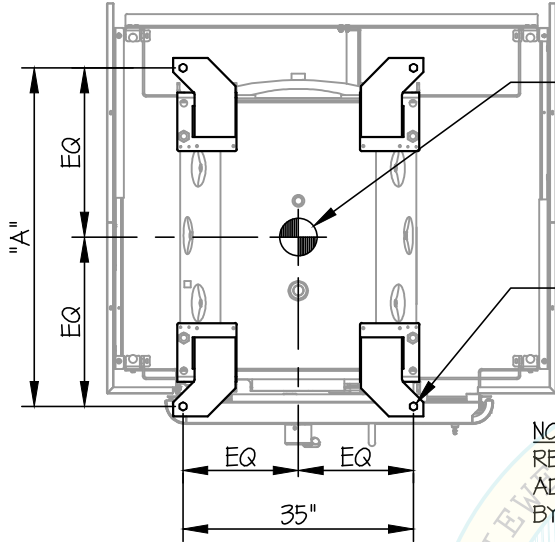
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SEISMIC SUPPORTS & ATTACHMENTS

$Sds \leq 2.00, z/h \leq 1$

CONCRETE SLAB ON METAL DECK



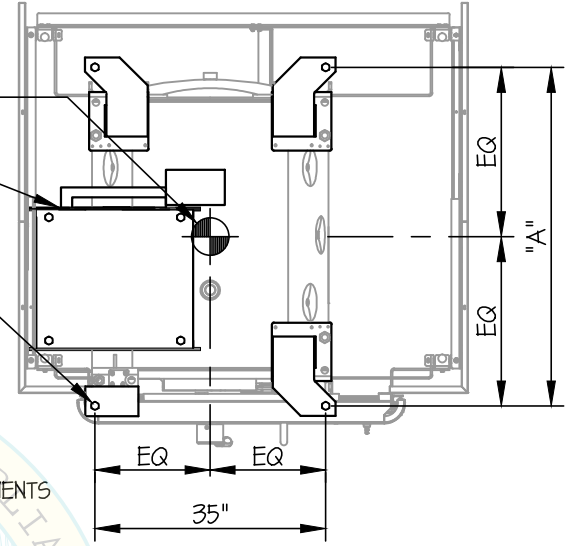
PLAN AT BASE
(STANDARD SEISMIC BASE)

C.G. WT. = (SEE SCHED BELOW)
($\bar{Y} = 42"$)

STEAM GENERATOR
(SEE SHEET II OF 13)

USE 4- 3/4" ϕ (A36)
THREADED RODS THRU
FLOOR

NOTE:
REFER TO BRACKET SHEET FOR
ADDTL INFO ON SUPPORTS & ATTACHMENTS
BY STERIS



PLAN AT BASE
(STEAM GENERATOR SEISMIC BASE)

BY: Haeseong Lim

MODEL	UNIT SIZE	WEIGHT (LB)	DIM. "A" (IN.)	* T _u (LB/BOLT)	* V _u (LB/BOLT)
EVOLUTION & 630LS 42 SD	65 X 91.25 X 71.25	3800	51.375	6115	2964
EVOLUTION & 630LS 54 SD	77 X 91.25 X 71.25	4200	63.375	6525	3276
EVOLUTION & 630LS 66 SD	89 X 91.25 X 71.25	4700	75.375	7123	3666
EVOLUTION & 630LS 42 DD	62.25 X 91.25 X 71.25	3800	51.875	6105	2964
EVOLUTION & 630LS 54 DD	65.25 X 91.25 X 71.25	4200	63.875	6517	3276
EVOLUTION & 630LS 66 DD	77.25 X 91.25 X 71.25	4700	75.875	7117	3666

* VALUES DO NOT INCLUDE Ω



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AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

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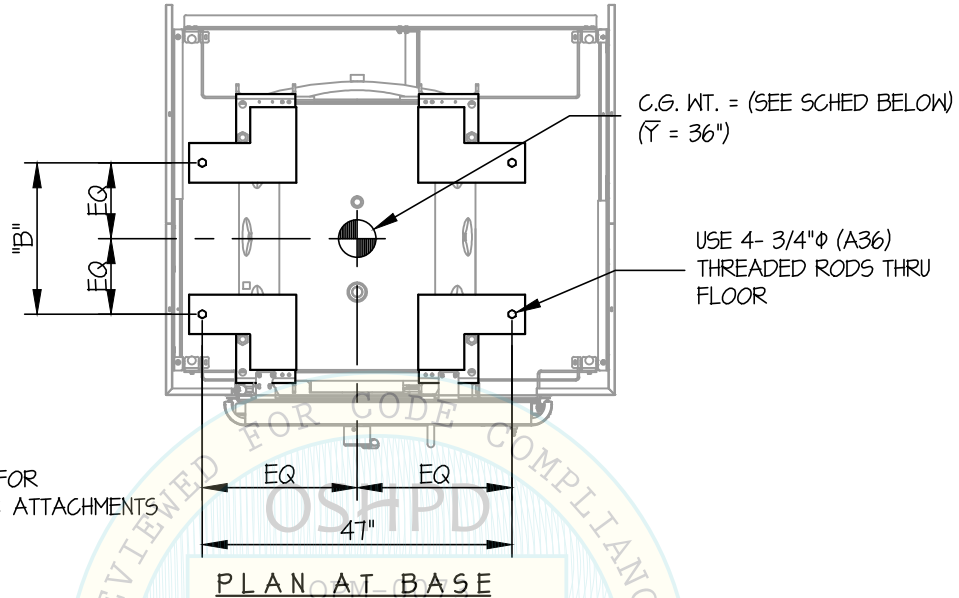
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SEISMIC SUPPORTS & ATTACHMENTS

$Sps \leq 2.00, z/h \leq 1$

CONCRETE SLAB ON METAL DECK



NOTE:
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BY STERIS

MODEL	UNIT SIZE	WEIGHT (LB)	DIM. "B" (IN.)	** T _U (LB/BOLT)	** V _U (LB/BOLT)
AMSCO 400 36 SD	63.5 X 70 X 75.25	3800	23	7110	2964
AMSCO 400 48 SD	75.5 X 70 X 75.25	4200	35	5817	3276
AMSCO 400 60 SD	87.5 X 70 X 75.25	4700	47	5029	3666
AMSCO 400 36 DD	62.25 X 70 X 75.25	3800	23.5	7558	2964
AMSCO 400 48 DD	74.25 X 70 X 75.25	4200	35.5	5744	3276
AMSCO 400 60 DD	86.25 X 70 X 75.25	4700	47.5	5015	3666

** VALUES DO NOT INCLUDE Ω_0



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SHEET

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AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

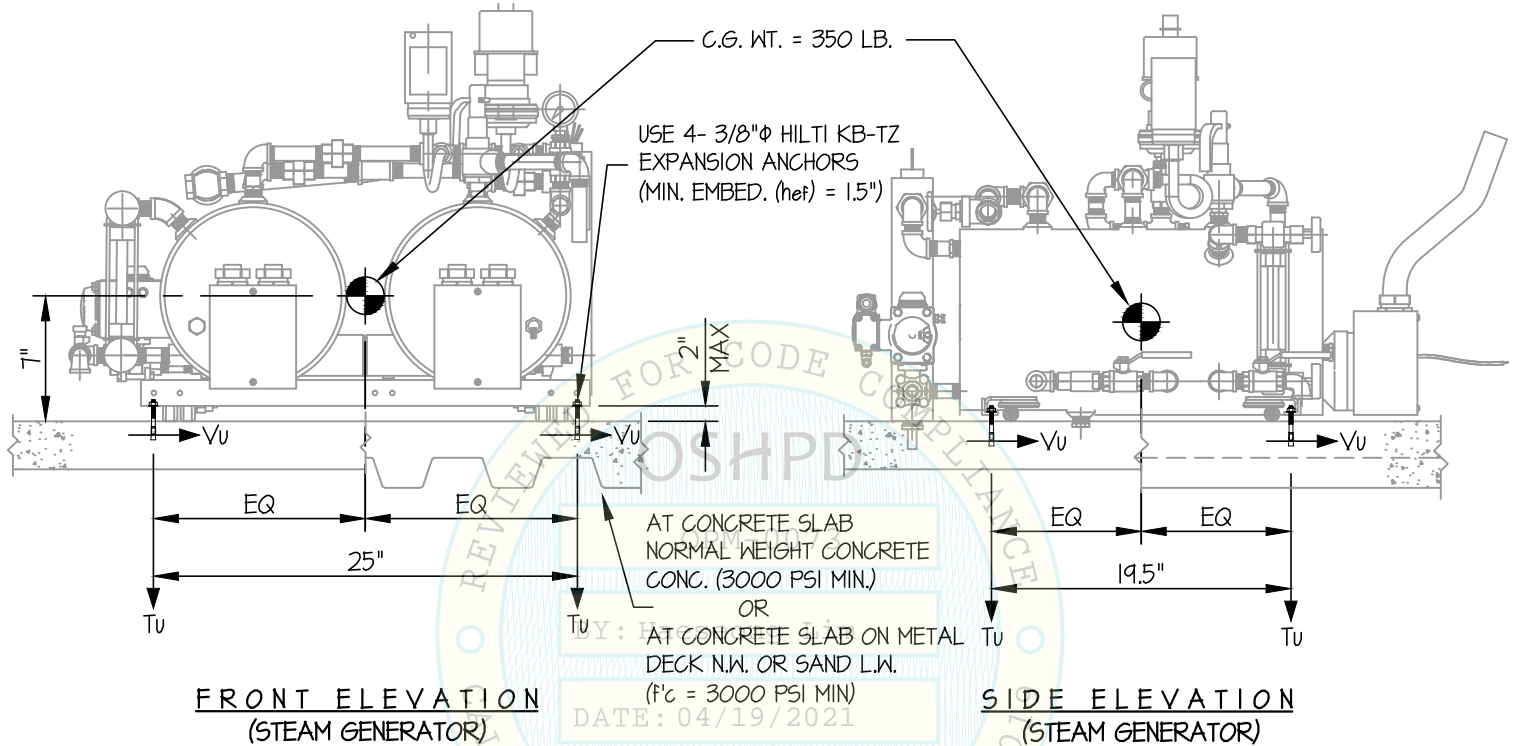
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SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



NOTES:

1. FORCES ARE DETERMINED PER 2019 CALIFORNIA BUILDING CODE AND ASCE 7-16.

STRENGTH DESIGN IS USED. ($S_{ds} = 2.00$, $a_p = 1.0$, $l_p = 1.5$, $R_p = 1.5$, $\Omega_0 = 1.5$, $z/h \leq 1$)

HORIZONTAL FORCE (E_h) = 2.40 W_p

HORIZONTAL FORCE (E_{mh}) = 3.60 W_p (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (E_v) = 0.40 W_p

2. CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.

3. STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.



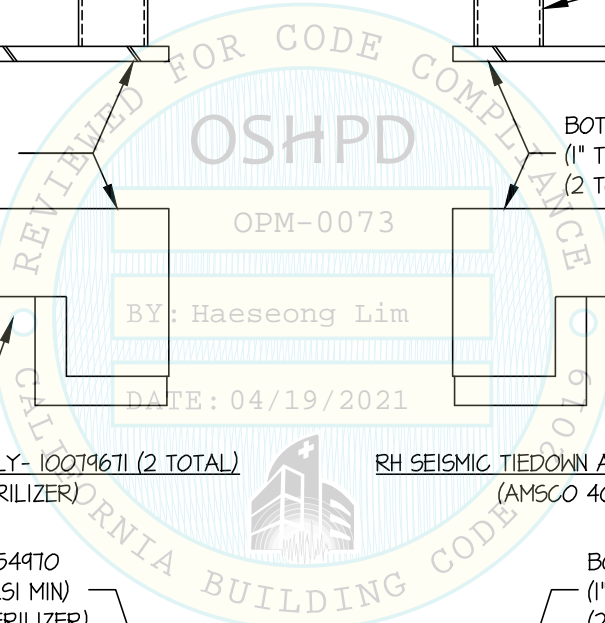
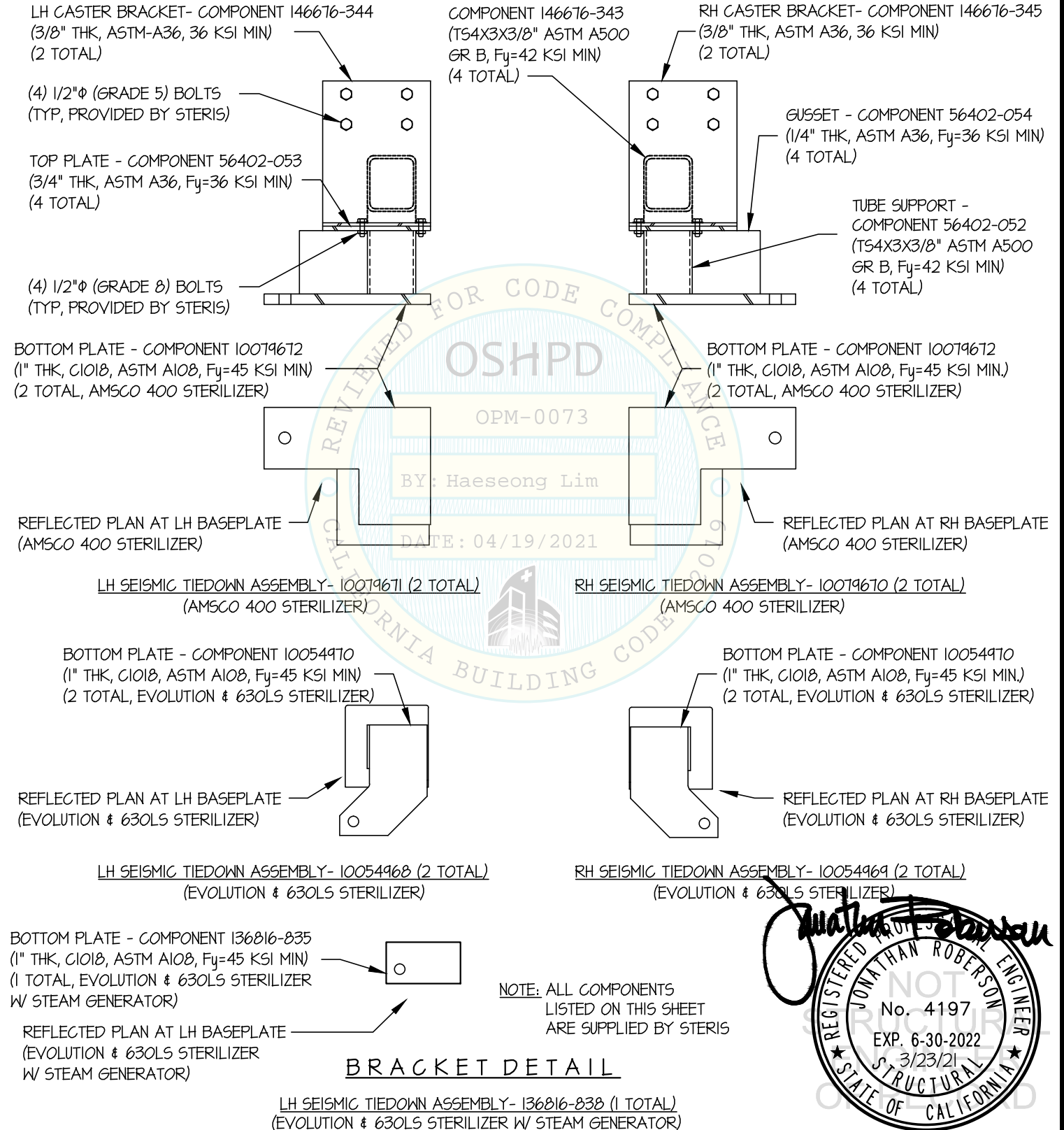
STERIS CORPORATION

AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

DES. J. ROBERSON	SHEET <h1 style="font-size: 2em;">12</h1> OF 13 SHEETS
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SEISMIC SUPPORTS & ATTACHMENTS

DETAILS



NOTE: ALL COMPONENTS LISTED ON THIS SHEET ARE SUPPLIED BY STERIS



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SHEET

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AMSCO 400, EVOLUTION & 630LS STEAM STERILIZERS

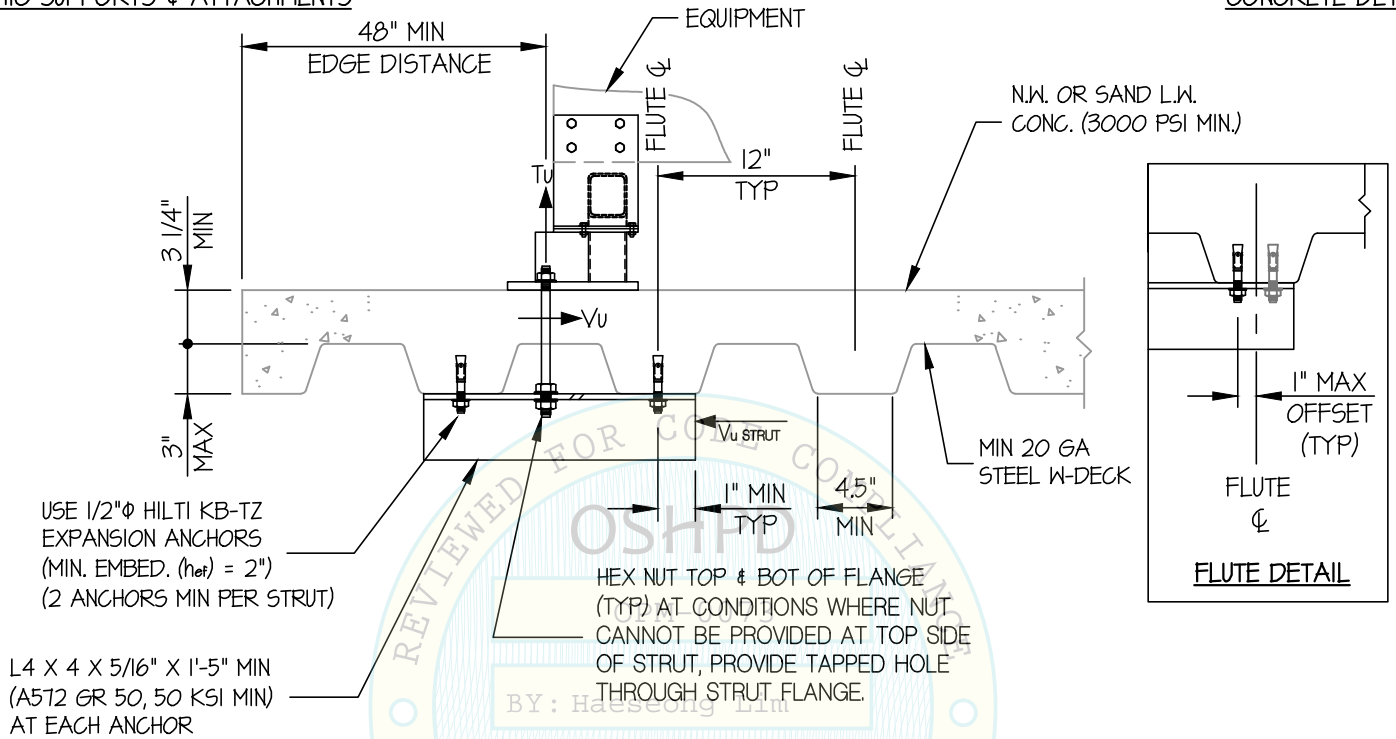
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SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE DETAIL



MIN STEEL DECK REQUIREMENTS AND STRUT DETAIL (A)