

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

11441114							
APPLICATION FOR OSHPD PI	OFFICE USE ONLY						
MANUFACTURER'S CERTIFIC	APPLICATION #: OPM-0588						
OSHPD Preapproval of Manufacturer's Certification (OPM)							
Type: X New 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.c	com					
·	FOR CODE COL						
Product Information	OSHPD						
Product Name: AMSCO 600 Series Pass-Th	ough Sterilizers	Y					
Product Type: Other Electrical & Mechanica	I Components	CH					
Product Model Number: 26"x26" Doo <mark>r: 6 ST STU/54", 15 STU/6</mark>		TU/7 <mark>5" &</mark> 26"x37.5" Door: 9 STU/42", 12					
General Description: Sterilizer used to sanit	ze medical instruments, gowns etc t	petw <mark>een</mark> soiled & clean rooms					
A L	DATE: 01/19/2021	507					
Applicant Information		>					
Applicant Company Name: EASE LLC.	CON						
Contact Person: Tiffany Tonn	BOILDING						
Moiling Address: 1515 EAID\/IE\// A\/E STE	205 MISSOLII A MT 50804						

"Access to Safe. Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

14/1/WW



Telephone: (406) 541-3273

Title:

Email: tiffany@easeco.com



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professonal Preparing Engineering Recommendations							
Company Name: EASE LLC							
Name: Kevin Paul Burke California License Number: CE57152							
Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709							
Telephone: (909) 606-7622 Email: kevin@easeco.com							
OSHPD Special Seismic Certification Preapproval (OSP)							
Special Seismic Certification is preapproved under OSP OSP Number:							
OR CODE							
Certification Method							
Testing in accordance with:							
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.							
X Analysis BY: David M. Calia							
Experience Data DATE: 01/19/2021							
Combination of Testing, Analysis, and/or Experience Data (Please Specify):							
CODE							
OSHPD Approval BUILDING							
Date: 1/19/2021							
Name: David Calia Title: Senior Structural Engineer							
Condition of Approval (if applicable):							

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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-0588

THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE

MANUFACTURER: STERIS CORPORATION

AMSCO 600 PASSTHROUGH CHAMBER

Sheet: 1 of 12 Date: 1/13/21

EQUIPMENT NAME:

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 SDS IS NOT GREATER THAN 1.90 & 2.30. 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 SDS = 2.30, \mathbf{a}_P = 1.0, \mathbf{I}_P = 1.5, \mathbf{R}_P = 1.0, \mathbf{z}/h = 0 AT CONCRETE SLAB.
 - WHERE SDS = 1.90, a_p = 1.0, I_p = 1.5, R_p = 1.0, z/h < 1 AT CONCRETE SLAB ON METAL DECK SEE FOLLOWING SHEETS FOR Ω_0
- 5. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- 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 < 1)
- 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 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 SDS & z/h RESULT IN SEISMIC FORCES (Eh, Ev) 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 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 6hef FROM THIS UNIT'S ANCHORS.



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STERIS CORPORATION

DES. J. ROBERSON

1/13/21

JOB NO. 14-2010

12

SHEET

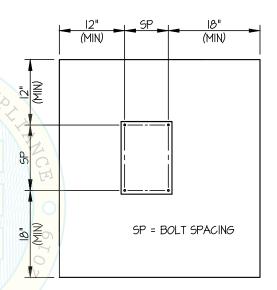
AMSCO 600 PASSTHROUGH CHAMBER

10. EXPANSION ANCHORS:

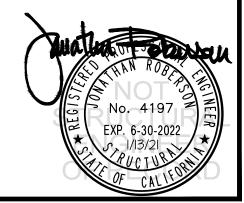
A. ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

 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
3/8"	Sand Light Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	2"	6.75"	12"	See Detail "A"	25 FT-LB	N/A
1/2"	Normal Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	2"	8"	12"	4"	40 FT-LB	1605 lb

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 12" 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



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AMSCO 600 PASSTHROUGH CHAMBER

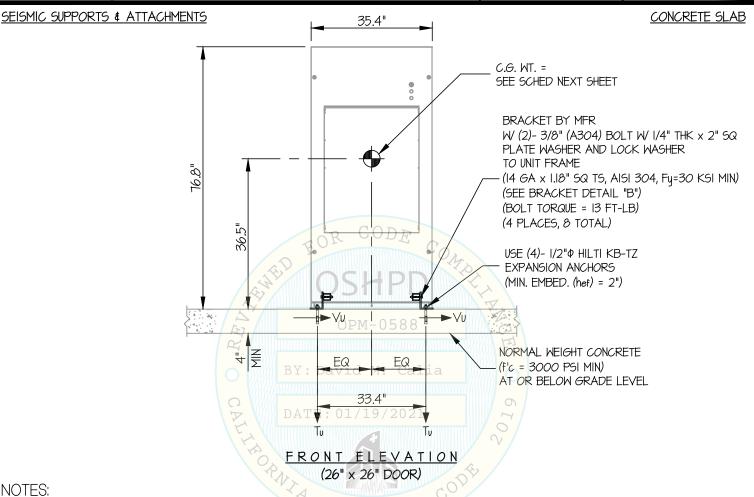
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1/13/21

SHEET

SHEETS



NOTES:

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

STRENGTH DESIGN IS USED. (SDS = 2.30, $\Delta p = 1.0$, |p| = 1.5, Rp = 1.5, $\Omega_0 = 2.0$, z/h = 0)

HORIZONTAL FORCE (Eh) = 1.035 Wp

HORIZONTAL FORCE (Emh) = 2.07 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.46 Wp

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.

4. SEE GENERAL NOTES: SHEET 1 AND 2.



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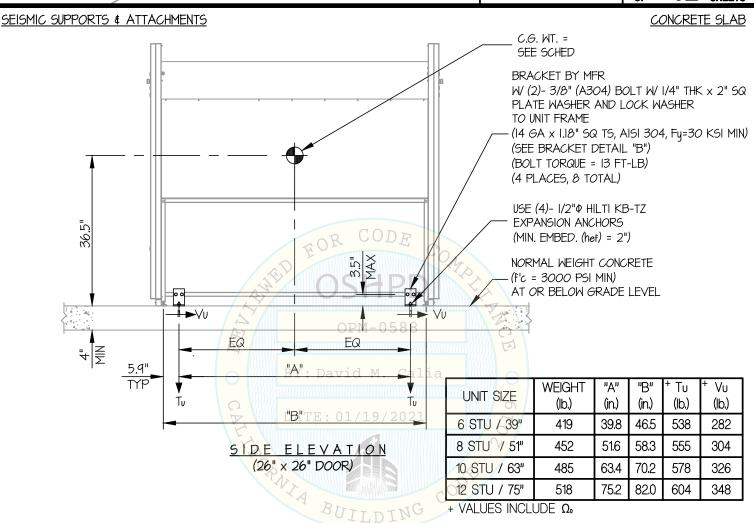
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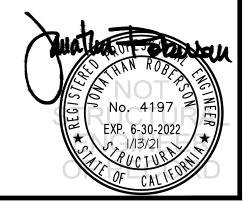
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SHEET

4

OF 12 SHEETS





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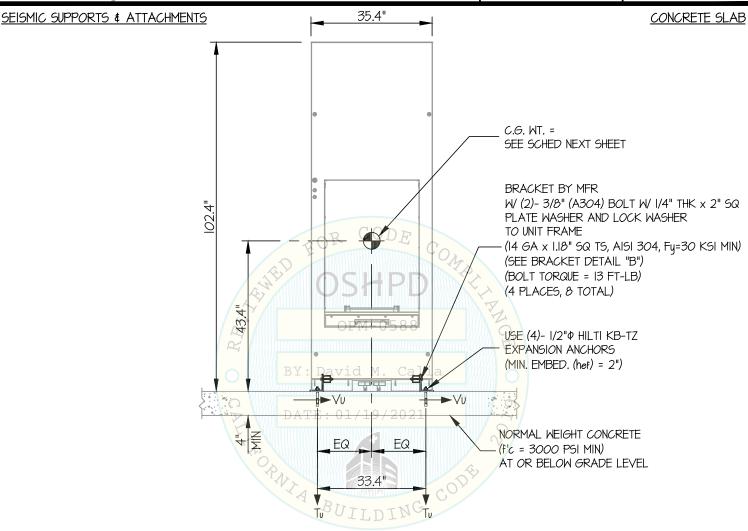
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SHEET

AMSCO 600 PASSTHROUGH CHAMBER

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SHEETS



FRONT ELEVATION (26" x 37.5" DOOR)

NOTES:

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

STRENGTH DESIGN IS USED. (SDS = 2.30, Δp = 1.0, |p| = 1.5, Rp = 1.5, Ω_0 = 2.0, z/h = 0)

HORIZONTAL FORCE (En) = 1.035 Wp

HORIZONTAL FORCE (Emh) = 2.07 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.46 Wp

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.

4. SEE GENERAL NOTES: SHEET 1 AND 2.



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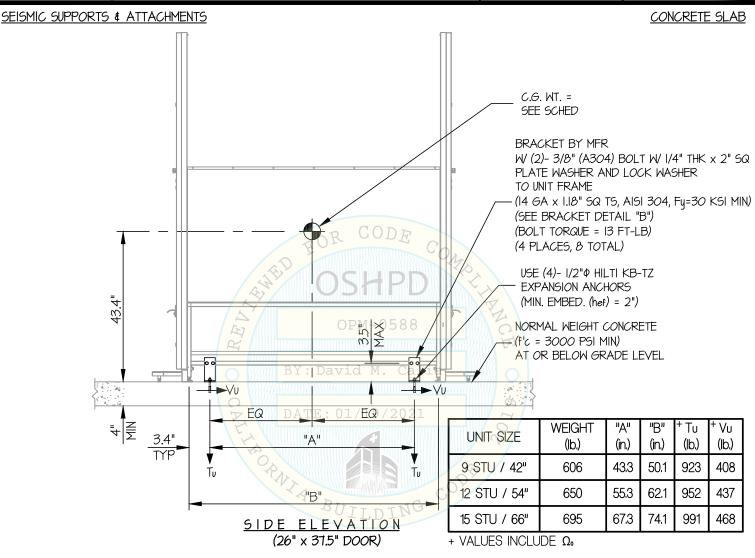
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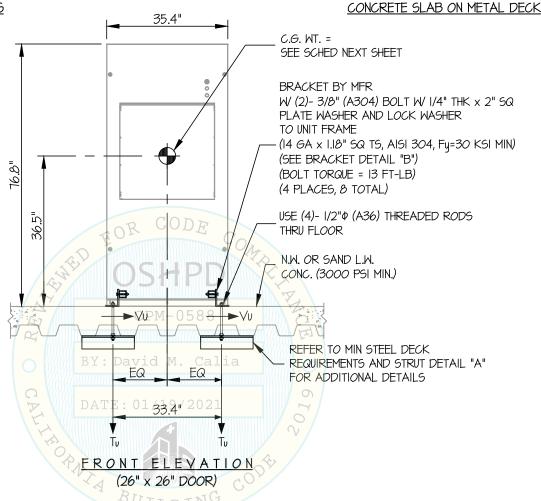
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12 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS



NOTES:

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

STRENGTH DESIGN IS USED. (Sps = 2.30, ap = 1.0, lp = 1.5, Rp = 1.5, Ω_0 = 2.0, z/h \leq 1)

HORIZONTAL FORCE (En) = 2.76 Wp HORIZONTAL FORCE (Emh) = 5.52 Wp (FOR CONCRETE ANCHORAGE) VERTICAL FORCE (Ev) = 0.46 Wp

- 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.
- 4. SEE GENERAL NOTES: SHEET 1 AND 2.



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CONCRETE SLAB ON METAL DECK

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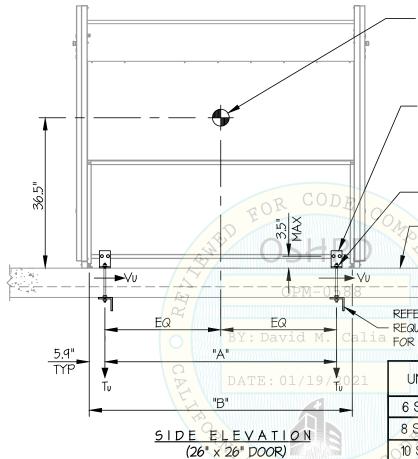
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12 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

C.G. WT. = SEE SCHED



BRACKET BY MFR
W/ (2)- 3/8" (A3O4) BOLT W/ I/4" THK x 2" SQ
PLATE WASHER AND LOCK WASHER
TO UNIT FRAME

(14 GA x I.18" SQ TS, AISI 304, Fy=30 KSI MIN) (SEE BRACKET DETAIL "B") (BOLT TORQUE = 13 FT-LB) (4 PLACES, 8 TOTAL)

USE (4)- 1/2"\$ (A36) THREADED RODS THRU FLOOR

N.W. OR SAND L.W. CONC. (3000 PSI MIN.)

REFER TO MIN STEEL DECK
REQUIREMENTS AND STRUT DETAIL "A"

A lia FOR ADDITIONAL DETAILS

UNIT SIZE	WEIGHT (lb.)	"A" (in.)	<u>(j</u>	+ Tu (lb.)	+ Vu (lb.)
6 STU / 39"	419	39.8	46.5	733	376
8 STU / 51"	452	51.6	58.3	757	406
10 STU / 63"	485	63.4	70.2	788	435
12 STU / 75"	518	75.2	82.0	824	465

+ VALUES DO NOT INCLUDE $\Omega_{
m o}$



BUILDING

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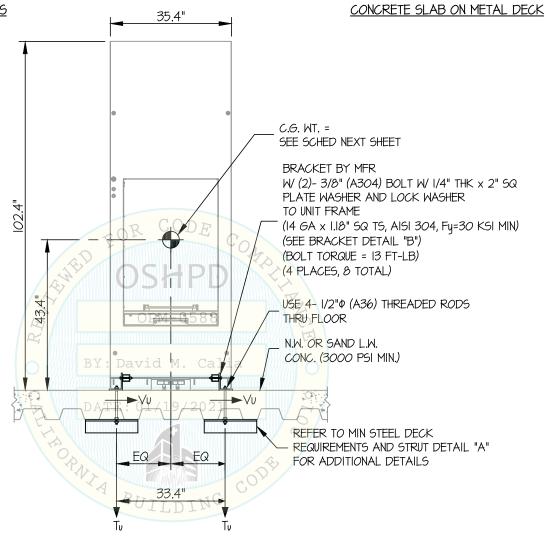
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SHEETS

SEISMIC SUPPORTS & ATTACHMENTS



FRONT ELEVATION NOTES:

(26" x 37.5" DOOR)

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

STRENGTH DESIGN IS USED. (SDS = 1.90, Δ_D = 1.0, I_D = 1.5, R_D = 1.5, Ω_0 = 2.0, z/h < 1)

HORIZONTAL FORCE (Eh) = 2.28 Wp

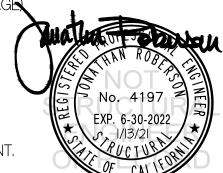
HORIZONTAL FORCE (Emh) = 4.56 Wp (FOR CONCRETE ANCHORAGE

VERTICAL FORCE (Ev) = 0.38 Wp

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.

SEE GENERAL NOTES: SHEET 1 AND 2.



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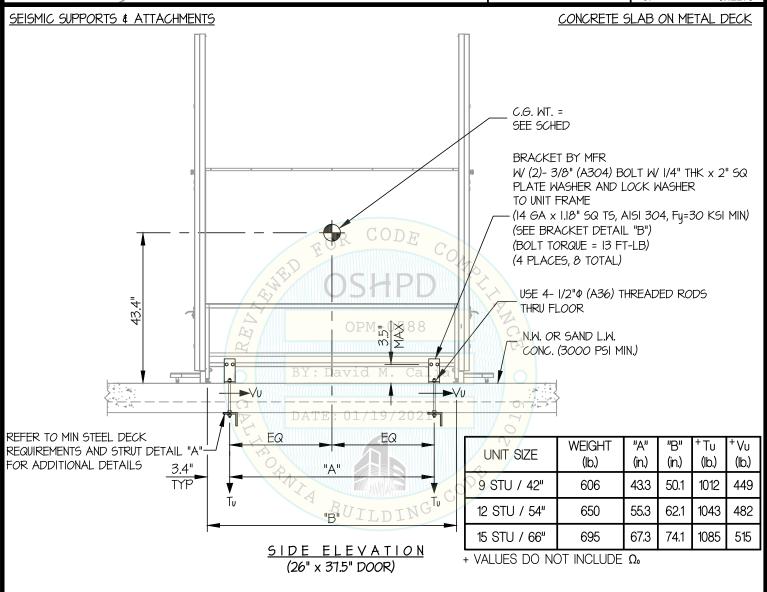
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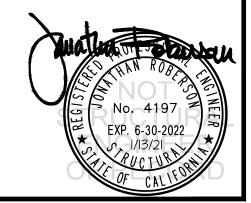
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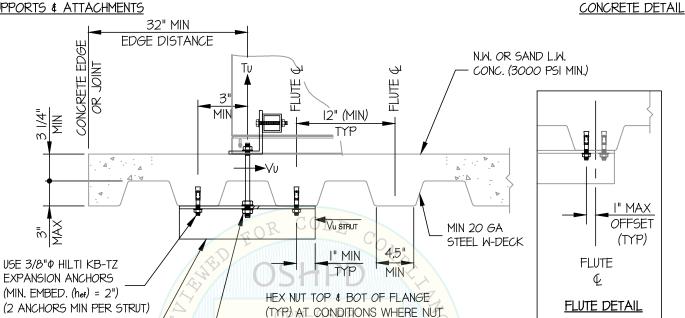
SEISMIC SUPPORTS & ATTACHMENTS

L3. X 3. X I/4" X I'-2" MIN

(A36) AT EACH ANCHOR .

THREADED ROD OCCURS AT FLUTE)

(EXTEND ANGLE TO ADJACENT FLUTE WHEN



CANNOT BE PROVIDED AT TOP SIDE

OF STRUT, PROVIDE TAPPED HOLE

BY: DIHROUGH STRUT FLANGE.



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SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAIL

