

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

APPLICATION FOR HCAI	APPLICATION #: OPM-0760							
MANUFACTURER'S CERT								
HCAI Preapproval of Manufacturer's Certification (OPM)								
Type: X New Renewal/Up	date							
Manufacturer Information								
Manufacturer: Getinge Disinfection AB	3							
Manufacturer's Technical Representative	ve: Markus Andersson							
Mailing Address: Ljungadalsgatan11, V	/axjo, SW 35246							
Telephone: (461) 033-5984	Email: markus.andersson@getinge.com							
	FOR CODE COM							
Product Information								
Product Name: Aquadis 44	ODM 0760	2						
Product Type: Other electrical and me	chanical components	Tri l						
Product Model Number: N/A	BY: Tim Piland							
General Description: Medical Washer	/Disinfector							
	DATE: 07/01/2025	22						
Applicant Information								
Applicant Company Name: EASE LLC								
Contact Person: Tiffany Tonn	BUILDING							
Mailing Address: 1515 FAIRVIEW AVE	E, STE 205, MISSOULA, MT 59801							
Telephone: (406) 541-3273	Email: tiffany@easeco.com							
Title: Office Assistant								

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HCA

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



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

Registered Design Professonal 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								
LICAL Cursaint Cainmin Cartification Programmoval (OCD)								
HCAI Special Seismic Certification Preapproval (OSP)								
Special Seismic Certification is preapproved under OSP OSP Number:								
EOR CODE CO.								
Certification Method								
Testing in accordance with:								
Other(s) (Please Specify):								
*Use of criteria other than those adopted by the California Building Standards Code, 2022 (CBSC 2022) 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 2022 may be used when approved by HCAI prior to testing.								
X Analysis								
Experience Data DATE: 07/01/2025								
Combination of Testing, Analysis, and/or Experience Data (Please Specify):								
COE.								
HCAI Approval								
Date: <u>7/1/2025</u>								
Name: Timothy Piland Title: Senior Structural Engineer								
Condition of Approval (if applicable):								

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STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



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-0760

THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE

MANUFACTURER: GETINGE USA

Sheet: 1 of 10

Date: 6/10/25

EQUIPMENT NAME:

AQUADIS 44 WASHER/DISINFECTOR

GENERAL NOTES

- 1. THIS HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2022 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2022 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 2022 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN 2.30.
- 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 = 1.5,
- 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 2022 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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GETINGE USA

AQUADIS 44 WASHER/DISINFECTOR

DES. J. ROBERSON

JOB NO. 36-2503

DATE 6/10/25

SHEET 2

10 SHEETS

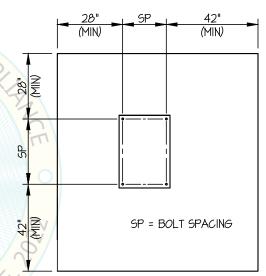
10. EXPANSION ANCHORS:

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
3/8"	Sand Light Weight	3000	Hilti Kwik Bolt TZ2	ESR-4266	2"	6.75"	12"	See Detail "A"	30 FT-LB	N/A
1/2"	Normal Weight	3000	Hilti Kwik Bolt TZ2	ESR-4266	2.5"	10"	28"	5"	50 FT-LB	2770 lb

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 28" 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
(SLAB ON GRADE ONLY)



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AQUADIS 44 WASHER/DISINFECTOR

DES. J. ROBERSON

36-2503 JOB NO.

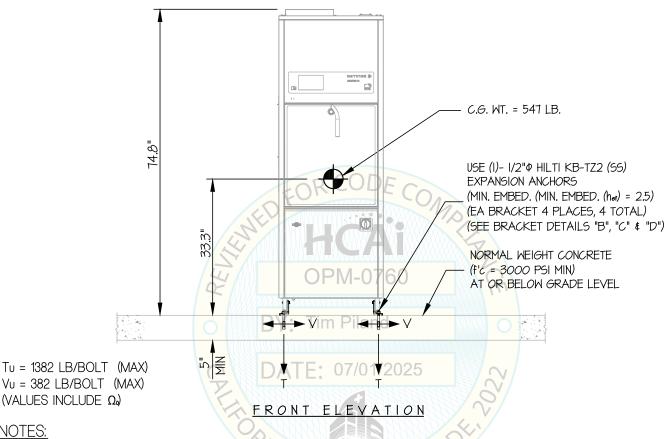
6/10/25 DATE

SHEET

SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB



NOTES:

1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: 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 W_b (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.46 Wp

2. THIS PREAPPROVAL ENCOMPASSES WEIGHTS AND VERTICAL C.G. POSITIONS NOT EXCEEDING VALUES SHOWN.

3. THIS CALCULATION 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.

4. 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.

5. SEE GENERAL NOTES: SHEETS 1 AND 2



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6/10/25

JOB NO. 36-2503

DATE

4

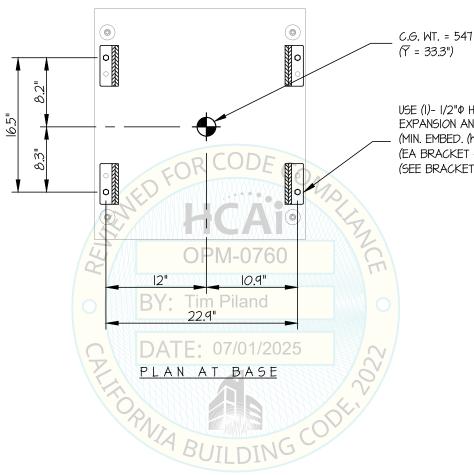
OF 10 SHEETS

SHEET

AQUADIS 44 WASHER/DISINFECTOR

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB



USE (I)- I/2" HILTI KB-TZ2 (SS)
EXPANSION ANCHORS
(MIN. EMBED. (he) = 2.5")
(EA BRACKET 4 PLACES, 4 TOTAL)
(SEE BRACKET DETAILS "B", "C" & "D")

No. 4197

EXP. 6-30-2026

Color of CALLED

No. 4197

EXP. 6-30-2026

Color of CALLED

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AQUADIS 44 WASHER/DISINFECTOR

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36-2503 JOB NO.

DATE

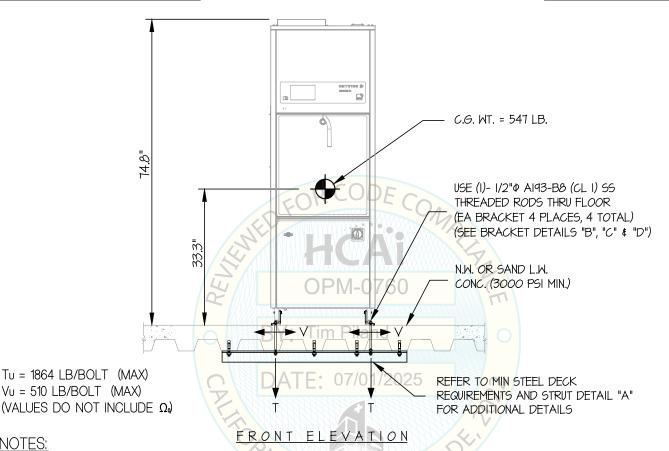
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SHEET

SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



NOTES:

1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: SDS = 2.30, 2p = 1.0, 2p = 1.5, 2p =

> = 2.76 WpHORIZONTAL FORCE (Eh)

HORIZONTAL FORCE (Emh) = 5.52 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.46 Wp

- 2. THIS PREAPPROVAL ENCOMPASSES WEIGHTS AND VERTICAL C.G., POSITIONS NOT EXCEEDING VALUES SHOWN.
- 3. THIS CALCULATION 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.
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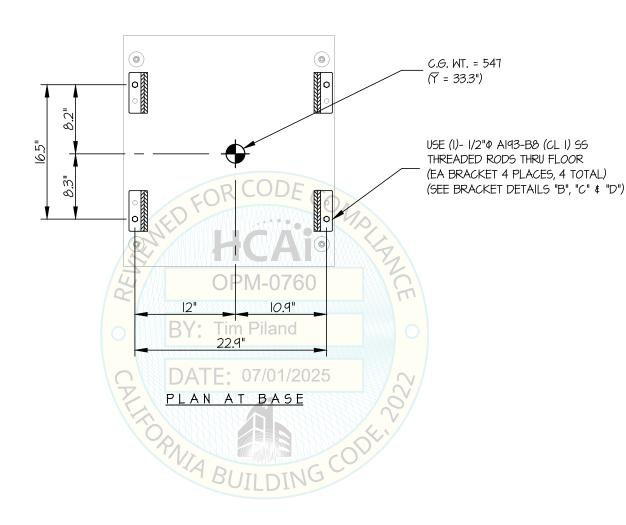
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DATE 6/10/25

F 10 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK





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AQUADIS 44
WASHER/DISINFECTOR

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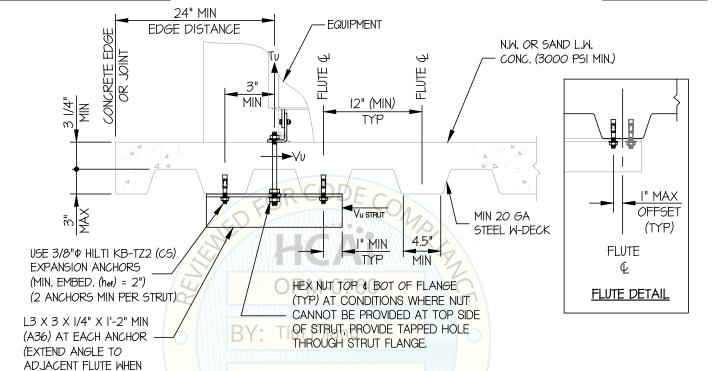
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SEISMIC SUPPORTS & ATTACHMENTS

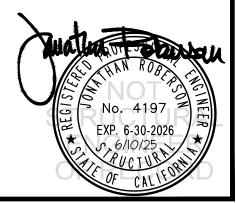
THREADED ROD OCCURS AT FLUTE)

CONCRETE DETAIL



07/01/2025

MIN STEEL DECK REQUIREMENTS AND STRUT DETAIL



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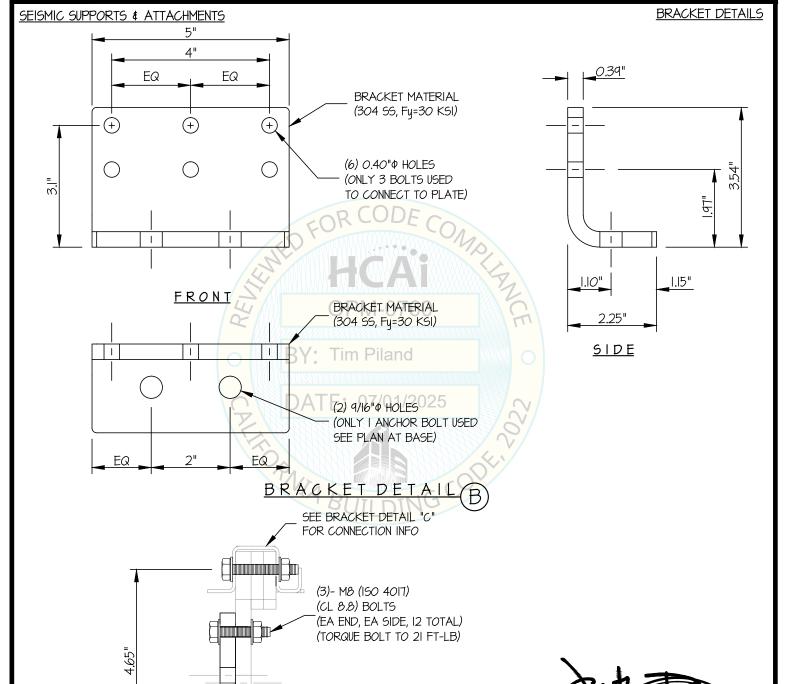
AQUADIS 44 WASHER/DISINFECTOR DES. J. ROBERSON

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10 SHEETS



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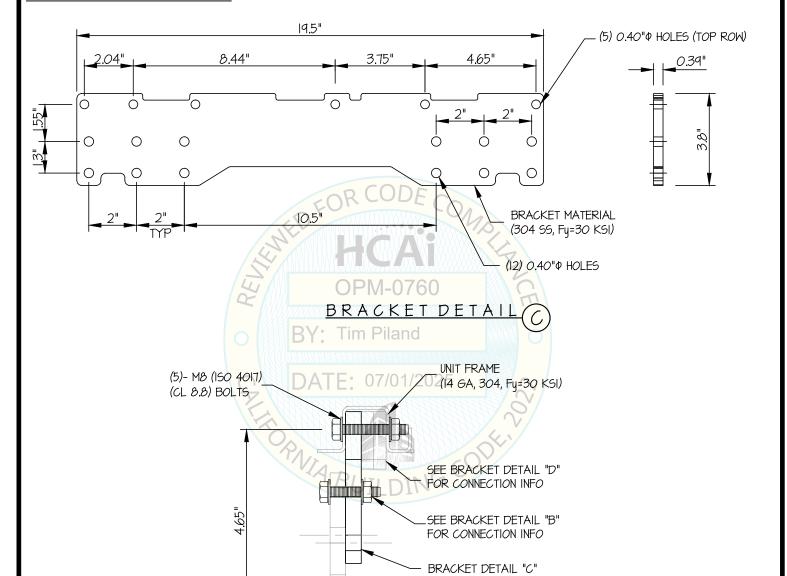
DATE 6/10/25

OF 10 SHEETS

SHEET

SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAILS



ASSEMBLY SIDE VIEW



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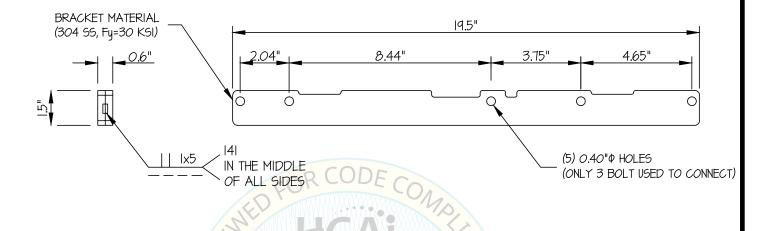
6/10/25 DATE

SHEET

SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAILS



Tim Piland UNIT FRAME (5)- M8 (ISO 4017) (14 GA, 304, Fy=30 KSI) (CL 8.8) BOLTS BRACKET DETAIL "D" SEE BRACKET DETAIL "B" FOR CONNECTION INFO BRACKET DETAIL "C"

BRACKET DETA

OPM-0760

ASSEMBLY SIDE VIEW

