

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

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APPLICATION FOR HCAI PR	OFFICE USE ONLY APPLICATION #: OPM-0657								
MANUFACTURER'S CERTIFI									
HCAI Preapproval of Manufacturer's Certification (OPM)									
Type: X New Renewal/Update	•								
Manufacturer Information									
Manufacturer: Diagnostica Stago, Inc.									
Manufacturer's Technical Representative:	John Chromczak								
Mailing Address: 5 Century Drive Suite 200	0, Parippany, NJ 07054								
Telephone: () -	ephone: () - Email: john.chromczak@us.stago.com								
	(D) 1/10								
Product Information	HCAI	Ž,							
Product Name: STA R Max Analyzer	OPM-0657								
Product Type: Other Mechanical and Elec	etrical Components								
Product Model Number: N/A	BY: Jeffrey Kikumoto	0							
General Description: Hemostasis Analyze	DATE: 04/04/0000								
	DATE: 04/04/2022	2018							
Applicant Information		<u>C</u>							
Applicant Company Name: EASE LLC.	The contract of the contract o	/							
Contact Person: Tiffany Tonn	BOILDING								
Mailing Address: 1515 FAIRVIEW AVE, S	TE 205, MISSOULA, MT 59801								

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

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Telephone: (406) 541-3273

Title: Office Manager

Email: tiffany@easeco.com



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Registered Design Professonal Preparing Engineering Recommendations								
Company Name: EASE								
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								
HCAI Special Seismic Certification Preapproval (OSP)								
Special Seismic Certification is preapproved under OSP OSP Number:								
2000								
EOK CODE CO								
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 HCAI prior to testing.								
X Analysis								
Experience Data DATE: 04/04/2022								
Combination of Testing, Analysis, and/or Experience Data (Please Specify):								
CPVIA CODE								
HCAI Approval								
Date: 4/4/2022								
Name: Jeffrey Kikumoto 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

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

OPM-0657

THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE

DIAGNOSTICA STAGO, INC. MANUFACTURER: STAR MAX ANALYZER

Sheet: 1 of 8 Date: 4/1/22

EQUIPMENT NAME:

GENERAL NOTES

- 1. THIS HCAI 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 2.30. OPM-0657 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}_D = 1.0, \mathbf{I}_D = 1.5, \mathbf{R}_D = 1.5, $\mathbf{z}'h$ = 0 AT CONCRETE SLAB & $\mathbf{z}'h$ < 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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SHEETS

DIAGNOSTICA STAGO, INC.

STA'R MAX ANALYZER

DES. J. ROBERSON

JOB NO. 11-2027

DATE 4/1/22

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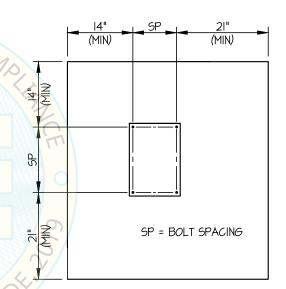
10. EXPANSION ANCHORS:

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
3/8"	Normal Weight	3000	Hilti Kwik Bolt TZ2	ESR-4266	2"	8"	14"	4"	30 FT-LB	1983 lb

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 14" 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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STA'R MAX ANALYZER

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11-2027 JOB NO.

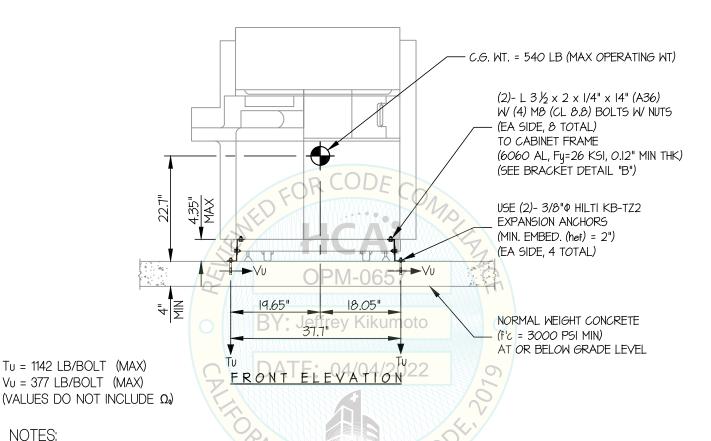
4/1/22 DATE

SHEET

SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB



NOTES:

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

STRENGTH DESIGN IS USED. (SDS = 2.30, 2p = 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.



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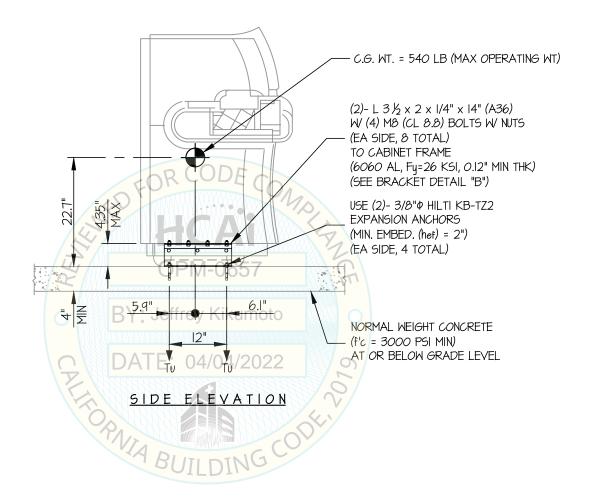
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OF 8 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB





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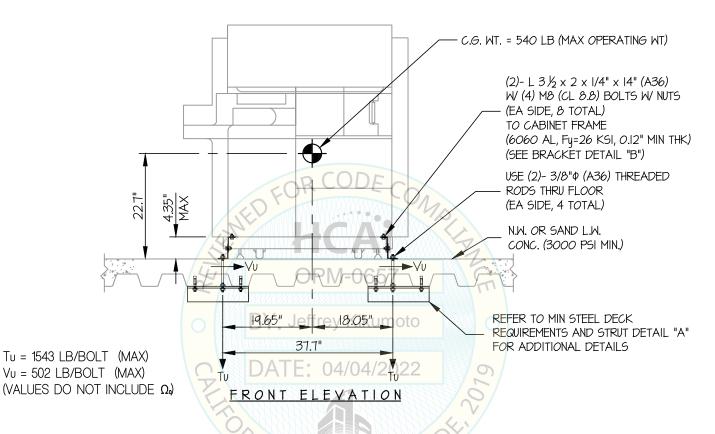
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8 SHEETS

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. (SDS = 2.30, 2p = 1.0, 2p = 1.5, 2p = 1.5, 2p = 2.0, 2p = 2.0, 2p = 1.5, 2p = 1.5, 2p = 2.0, 2p = 2.0, 2p = 1.5, 2p

HORIZONTAL FORCE (En) = 2.76 Wp

HORIZONTAL FORCE (Emh) = 5.52 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.



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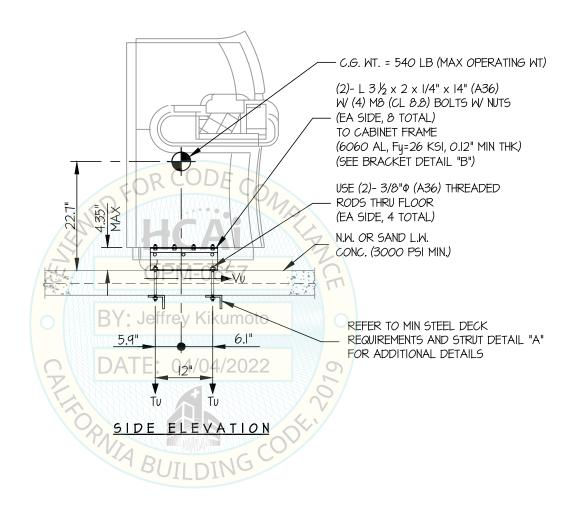
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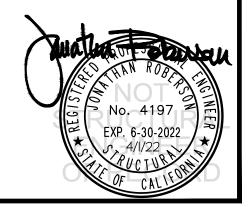
SHEET

8 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK





EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.EquipmentAnchorage.com

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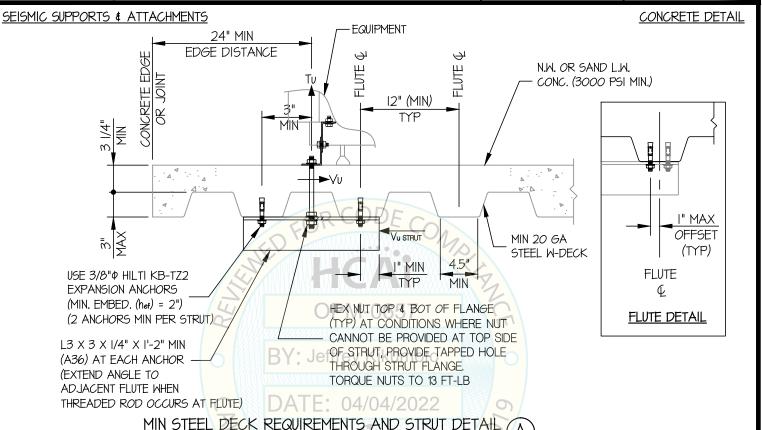
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DATE 4/1/22

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OF

8 SHEETS





EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.EquipmentAnchorage.com SHEET DES. J. ROBERSON DIAGNOSTICA STAGO, INC. 11-2027 JOB NO. STA'R MAX ANALYZER 4/1/22 DATE SHEETS BRACKET DETAILS SEISMIC SUPPORTS & ATTACHMENTS CABINET FRAME (6060 AL, Fy=26 KSI, O.12" MIN THK) 14" 0.354 TYP (2)- 1/4" THK **BRACKET** (4)- 5/16" PHOLES (3)- 3/4" x 7/16" SLOTTED HOLES EQ (3)- 3/8"Φ (GR 5) BOLTS W LOCK WASHER 12" TORQUE TO 31 FT-LB BY: Jeffrey Kikumoto FRONT (TOP ANGLE) SIDE