

**APPLICATION FOR OSHPD PREAPPROVAL OF** 

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

MANUFACTURER'S CERTIFICATION (OPM)  APPLICATION #: OPM-0423-13										
OSHPD Preapproval of Manufacturer's Certification (OPM)										
Type: ☐ New ☐ Renewal ☐ Update to Pre-CBC 2013 OPA Number:										
Manufacturer Information										
Manufacturer: CARESTREAM HEALTH, INC.										
Manufacturer's Technical Representative: Michael Litzenberger										
Mailing Address: 1049 Ridge Road W., Rodchester, NY. 14615										
Telephone: On File Email: On File										
Product Information OS DDG										
Product Name: DRX Ascend Patient Table										
Product Type: Other mechanical and electrical components										
Product Model Number: N/A BY: Jeffrey Y. Kikumoto										
General Description: Supports Patient for X-Ray Procedures										
DATE: 08/01/2018										
Applicant Information										
Applicant Company Name: EASE Co.										
Contact Person: Jonathan Roberson, S.E.										
Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA. 91709										
Telephone:         (909) 606-7622         Email:         J.Roberson@EASECo.com										
I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.										
Signature of Applicant: Date: 4/12/17										
Title: Principal Engineer Company Name: EASE Co.										

"Access to Safe, Quality Healthcare Environments that Meet





OFFICE USE ONLY



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

Registered Design Professional Preparing Engineering Recommendations										
Company Name: EASE Co.										
Name: Jonathan Roberson, S.E. California License Number: S4197										
Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA. 91709										
Telephone: 909-606-7622 Email: <u>J.Roberson@EASECo.com</u>										
OSHPD Special Seismic Certification Preapproval (OSP)										
<ul> <li>Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required)</li> <li>✓ Special Seismic Certification is not preapproved</li> </ul>										
Certification Method(s)										
☐ Testing in accordance with: ☐ ICC-ES AC156 ☐ FM 1950-16 ☐ Other* (Please Specify): ☐ OPM-0423-13										
*Use of criteria other than those adopted by the California Building Standards Code, 2016 (CBSC 2016) 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 2016 may be used when approved by OSHPD prior to testing.  Analysis  DATE: 08/01/2018										
☐ Experience Data										
Combination of Testing, Analysis, and/or Experience Data (Please Specify):										
List of Attachments Supporting the Manufacturer's Certification  ☐ Test Report ☐ Drawings ☐ Calculations ☐ Manufacturer's Catalog ☐ Other(s) (Please Specify):										
OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2016 & ALL PRE-2016 CODE BASED PROJECTS										
Signature: Date: 08-01-2018  Print Name: Jeffrey Kikumoto  Title: SSE										
Condition of Approval (if applicable):										

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## **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-0423-13

THIS PREAPPROVAL CONFORMS TO THE 2016 CALIFORNIA BUILDING CODE

MANUFACTURER:

CARESTREAM HEALTH, INC.

Sheet: <u>1 of 7</u> Date: 7/31/18

**EQUIPMENT NAME:** 

**ASCEND SYSTEM QT750-ELEVATING TABLE** 

#### **GENERAL NOTES**

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2016 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2016 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 2016 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN 1.00, & 2.20. SEE DETAIL FOR APPLICABILITY OPM-0423-13
- 4. FORCES PER ASCE 7-10 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE SDS = 1.00,  $A_p = 1.0$ ,  $A_p = 1.5$ , A
- 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 < 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 2016 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 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.



### **EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING**

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### CARESTREAM HEALTH, INC.

# ASCEND SYSTEM QT750-ELEVATING TABLE

DES. J. ROBERSON

JOB NO. 11-1633

DATE 7/31/18

SHEET 2

7 SHEETS

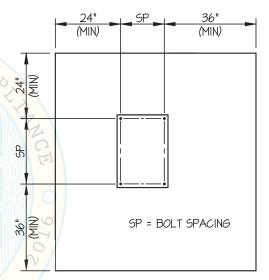
#### 10. EXPANSION ANCHORS:

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

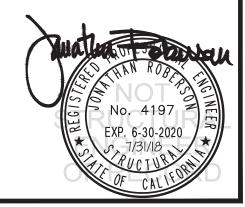
Anchor Diameter	Concrete Type	Min. f'c (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Torque Test	Direct Tension Test
1/2"	Sand Light Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	2"	6.75"	24"	See Detail "A"	40 FT-LB	N/A
1/2"	Normal Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	3.25"	2.75"	24"	6"	40 FT-LB	3280 lb

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 24" AWAY MINIMUM (i.e. CORNER). SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE EDGE DISTANCES.
- C. TESTING OF EXPANSION ANCHORS PER 2016 CBC, 1910A.5:
  TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL
  INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE
  SUBMITTED TO OSHPD
  - (i) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION,
    DIRECT PULL TENSION TEST OR TORQUE TEST AT LEAST 50% OF
    THE ANCHORS.

    BY: Jeffrey Y. Kikum
  - (ii) ACCEPTANCE CRITERIA:
    - DIRECT TENSION TEST: THE ANCHOR SHOULD HAVE NO 2 0 1 8
       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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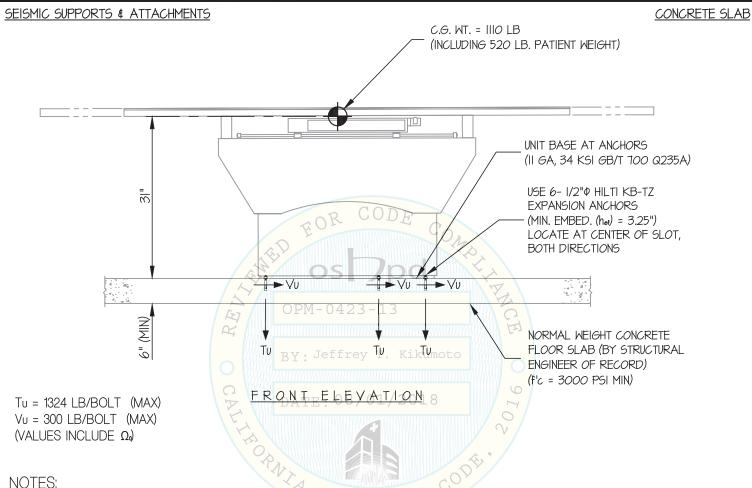
DES. J. ROBERSON

JOB NO. 11-1633

DATE 7/31/18

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7 SHEETS



1. FORCES ARE DETERMINED PER 2016 CALIFORNIA BUILDING CODE AND ASCE 7-10.

STRENGTH DESIGN IS USED. (Sps = 1.00, 2p = 1.0, 1p = 1.5, 2p = 1.5, 2p

HORIZONTAL FORCE (En) = 0.45 Wp

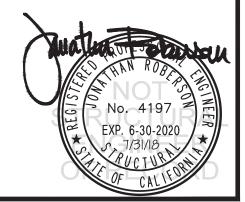
HORIZONTAL FORCE (Emh) = 068 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.20 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: SHEETS 1 AND 2.



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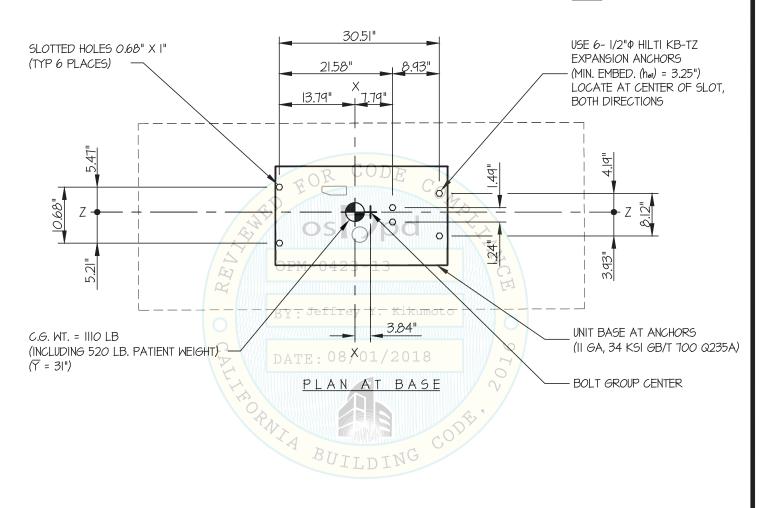
SHEET

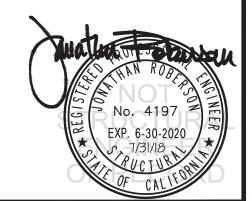
SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB

NOTE: TESTING PER OSP-0506-10





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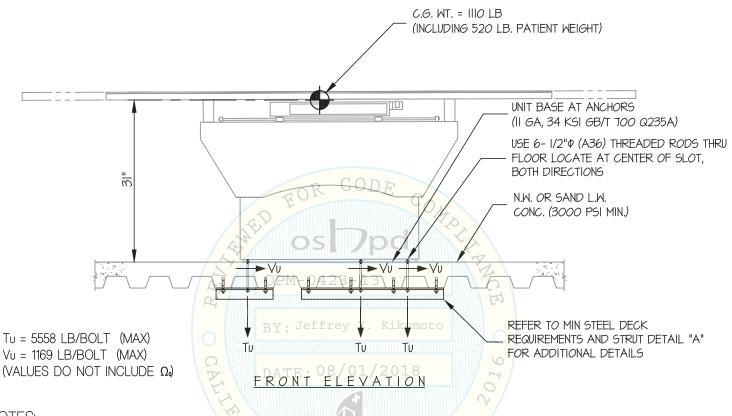
DATE 7/31/18

SHEET 5

7 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK



<u>NOTES:</u>

1. FORCES ARE DETERMINED PER 2016 CALIFORNIA BUILDING CODE AND ASCE 7-10.

STRENGTH DESIGN IS USED. (SDS = 2.20, ap = 1.0, Ip = 1.5, Rp = 1.5,  $\Omega_0$  = 1.5,  $z/h \le 1$ )

HORIZONTAL FORCE (Eh) = 2.64 Wp

HORIZONTAL FORCE (Emh) = 3.96 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.44 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: SHEETS 1 AND 2.

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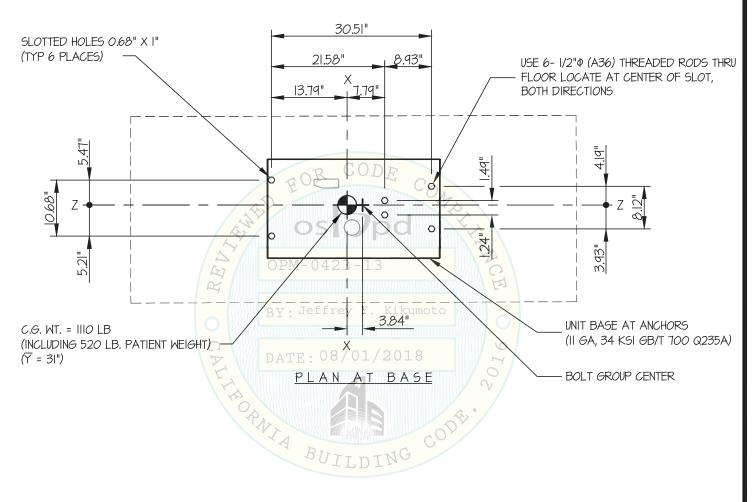
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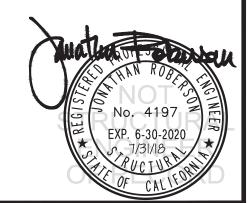
7 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB ON METAL DECK

NOTE: TESTING PER OSP-0506-10





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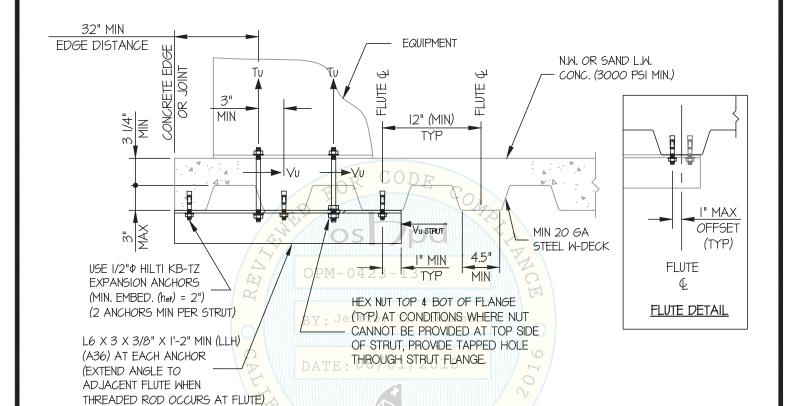
DATE 7/31/18

NHEET 7

SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE DETAILS



MIN STEEL DECK REQUIREMENTS AND STRUT DETAIL (A

