

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

-4116									
APPLICATION FOR OSHP	OFFICE USE ONLY APPLICATION #: OPM-0586								
MANUFACTURER'S CERT									
OSHPD Preapproval of Manufacturer's Certification (OPM)									
Type: X New Renewal/Up	odate								
Manufacturer Information									
Manufacturer: Olympus Corp of the A	Americas								
Manufacturer's Technical Representat	ive: Mason Nagasaki								
Mailing Address: 3500 Corporate Parl	kway, Center Valley, PA 18034								
Telephone: (484) 896-5265 Email: mason.nagasaki@olympus.com									
	FOR CODE COM								
Product Information	OSHPD								
Product Name: OER-Elite Olympus Er	ndoscope Reprocessor	Z							
Product Type: Process Equipment	OPM-0586	CE							
Product Model Number: N/A	BY: David M Calia								
General Description: High-Level Disir	nfection of Flexible Endoscopes								
	DATE: 10/04/2021	070							
Applicant Information		V							
Applicant Company Name: EASE LLC		-							
Contact Person: Tiffany Tonn	BUTIDING								
Tillally Tolli	TIDIL								

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

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

- MM



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:									
<u></u>									
Continue Mothers Mothers									
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: 10/04/2021									
Combination of Testing, Analysis, and/or Experience Data (Please Specify):									
CODE CODE									
OSHPD Approval BUILDING									
Date: 10/4/2021									
Name: David Calia Title: Senior Structural Engineer									
Condition of Approval (if applicable):									

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









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-0586

THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE

MANUFACTURER:

OLYMPUS MEDICAL SYSTEMS CORPORATION

Sheet: 1 of 8

EQUIPMENT NAME:

OER-ELITE OLYMPUS ENDOSCOPE REPROCESSOR

Date: 11/3/20

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 1.40 & 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, a_p = 1.0, I_p = 1.5, R_p = 1.0, z/h = 0 AT CONCRETE SLAB. SEE FOLLOWING SHEETS FOR Ω_o WHERE SDS = 1.40, a_p = 1.0, I_p = 1.5, R_p = 1.0, $z/h \le 1$ 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.
- 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.



EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

www.EquipmentAnchorage.com

SHEETS

OLYMPUS MEDICAL SYSTEMS CORPORATION

OFD FLITE OLVADUO JOB NO. 11-2020

OER-ELITE OLYMPUS ENDOSCOPE REPROCESSOR DES. J. ROBERSON

JOB NO. 11-2020

DATE 11/3/20

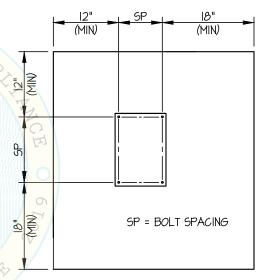
10. EXPANSION ANCHORS:

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

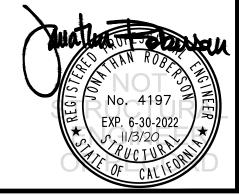
Anchor Diameter	Concrete Type	Min. f'c (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Torque Test	Direct Tension Test
3/8"	Sand Light Weight	3000	Hilti Kwik Bolt TZ2	ESR-4266	2"	6.75"	12"	See Detail "A"	30 FT-LB	N/A
3/8"	Normal Weight	3000	Hilti Kwik Bolt 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, 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



EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

www.EquipmentAnchorage.com

OLYMPUS MEDICAL SYSTEMS CORPORATION

OER-ELITE OLYMPUS ENDOSCOPE REPROCESSOR

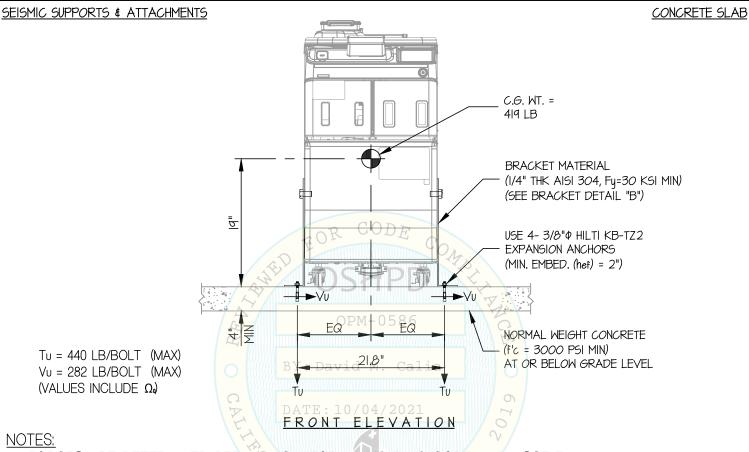
DES. J. ROBERSON

JOB NO. 11-2020

DATE 11/3/20

3

_F 8 знеетз



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

STRENGTH DESIGN IS USED. (SDS = 230, 2p = 1.0, 2p = 1.5, 2p = 1.5, 2p = 2.0, 2p = 0.

HORIZONTAL FORCE (Eh) = 1.035 WpUILDING

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

VERTICAL FORCE (E_V) = 0.46 W_D

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

EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

www.EquipmentAnchorage.com

OLYMPUS MEDICAL SYSTEMS CORPORATION

OER-ELITE OLYMPUS ENDOSCOPE REPROCESSOR

DES. J. ROBERSON

JOB NO. 11-2020

DATE 11/3/20

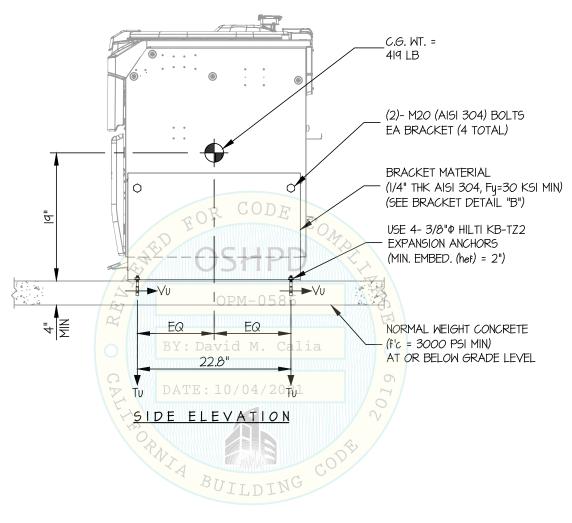
SHEET

4

OF 8 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB





EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

www.EquipmentAnchorage.com

OLYMPUS MEDICAL SYSTEMS CORPORATION

OER-ELITE OLYMPUS ENDOSCOPE REPROCESSOR

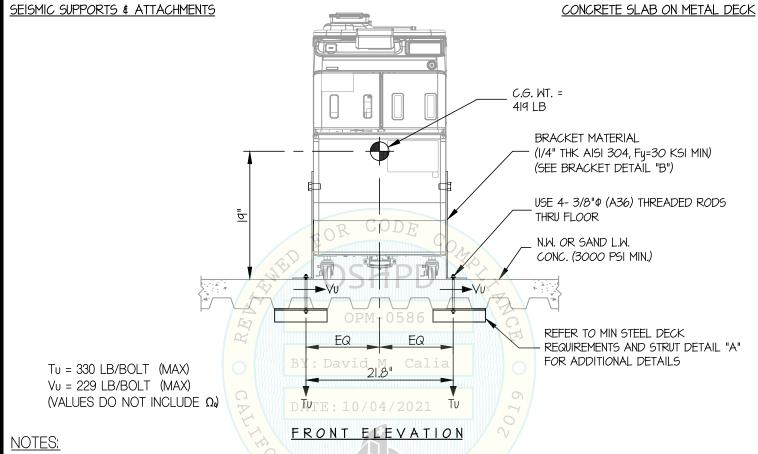
DES. J. ROBERSON

JOB NO. 11-2020

DATE 11/3/20

SHEET 5

8 SHEETS



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

STRENGTH DESIGN IS USED. (SDS = 1.40, 2p = 1.0, 1p = 1.5, 1p

HORIZONTAL FORCE (Eh) = 1.68 Wp BUILDING

HORIZONTAL FORCE (Emh) = 3.36 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.28 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.

EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

www.EquipmentAnchorage.com

OLYMPUS MEDICAL SYSTEMS CORPORATION

OER-ELITE OLYMPUS

DES. J. ROBERSON

JOB NO. 11-2020

DATE

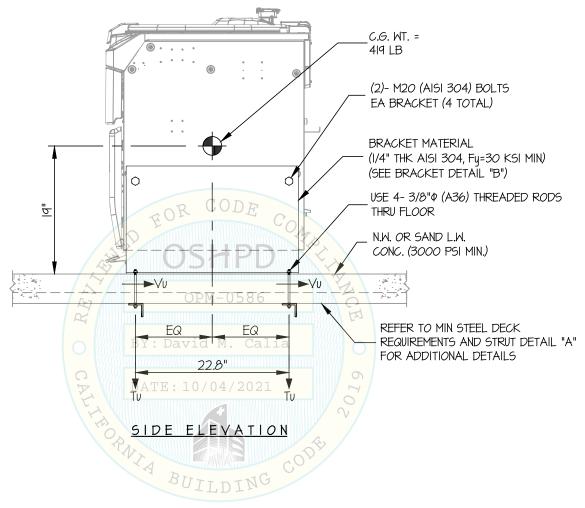
11/3/20

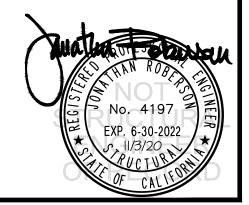
оғ 8 знеетз

SHEET

OER-ELITE OLYMPUS ENDOSCOPE REPROCESSOR

SEISMIC SUPPORTS & ATTACHMENTS CONCRETE SLAB ON METAL DECK





EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

www.EquipmentAnchorage.com

OF

OLYMPUS MEDICAL SYSTEMS CORPORATION

OER-ELITE OLYMPUS ENDOSCOPE REPROCESSOR

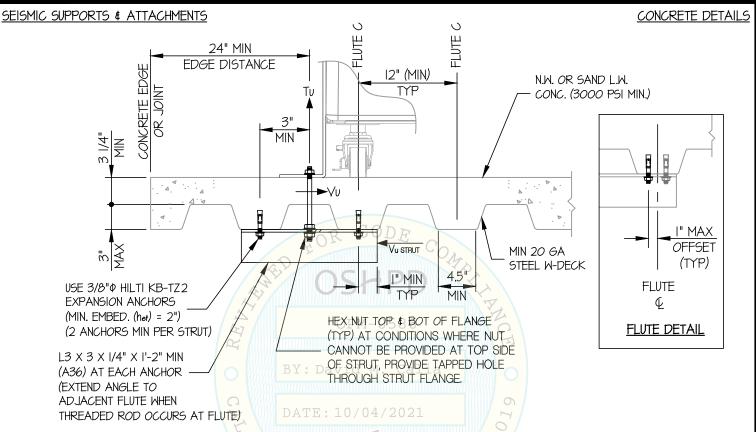
DES. J. ROBERSON

JOB NO. 11-2020

DATE 11/3/20

NAME T

8 SHEETS







EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

DES. J. ROBERSON

www.EquipmentAnchorage.com

OLYMPUS MEDICAL SYSTEMS CORPORATION

JOB NO. OER-ELITE OLYMPUS ENDOSCOPE REPROCESSOR

11-2020

11/3/20 DATE

SHEET

SHEETS

