

APPLICATION FOR OSHPD PREAPPROVAL OF

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

MANUFACTURER'S CERTIFICATION (OPM) APPLICATION #: OPM-0422-19										
OSHPD Preapproval of Manufacturer's Certification (OPM)										
Type: ⊠ New □ Renewal □ Update to Pre-CBC 2013 OPA Number:										
Manufacturer Information										
Manufacturer: MEDIVATORS										
Manufacturer's Technical Representative: Megan Dickey										
Mailing Address: 14605 28 th Avenue N., Minneapolis, MN. 55447										
Telephone: On File Email: On File										
Product Information										
Product Name: Advantage Plus® Pass-Thru Reprocessor										
Product Type: Other mechanical and electrical components 422-19										
Product Model Number: N/A BY: Jeffrey Kikumoto										
General Description: Endoscope Reprocessor										
DATE: 09/12/2019										
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: 4/11/17										
Title: Principal Engineer Company Name: EASE Co.										

"Access to Safe Quality Healthcare Environments that Meet California's





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)										
 □ Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required) □ Special Seismic Certification is not preapproved 										
Certification Method(s)										
☐ Testing in accordance with: ☐ ICC-ES AC156 ☐ ☐ Other* (Please Specify):	FM 1950-16									
*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 Experience Data Combination of Testing, Analysis, and/or Experience Data (Please Specify):										
List of Attachments Supporting the Manufacturer's Certification										
☐ Test Report ☐ Drawings ☐ Calculation☐ Other(s) (Please Specify):	ns									
OFFICE USE ONLY - OSHPD APPROVAL VALID FOR CBC 2016 & ALL PRE-2016 CODE BASED PROJECTS										
Signature: Print Name: Jeffrey Kikumoto Title: Structural Engineer Condition of Approval (if applicable):	Date: 9/12/2019									

"Access to Safe Quality Healthcare Environments that Meet California's





Page 2 of 2



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-0422-19

THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE

MANUFACTURER: MEDIVATORS

Sheet: 1 of 6 Date: 9/10/19

EQUIPMENT NAME:

ADVANTAGE PLUS® PASS-THRU ENDOSCOPE REPROCESSOR

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 2.00. 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 = 2.00, \mathbf{a}_P = 1.0, \mathbf{I}_P = 1.5, \mathbf{z}_P = 0 AT CONCRETE SLAB & \mathbf{z}_P < 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.
- 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 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 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.



www.EquipmentAnchorage.com

MEDIVATORS

ADVANTAGE PLUS® PASS-THRU ENDOSCOPE REPROCESSOR

DES. J. ROBERSON

JOB NO. 11-1705

DATE 9/10/19

SHEET 2

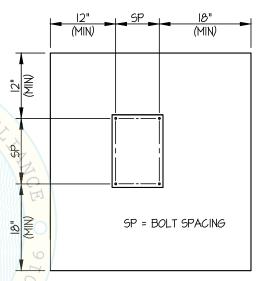
6 sheets

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	Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Torque Test	Direct Tension Test
3/8"	Sand Light Wt or Hardrock	3000	Hilti Kwik Bolt TZ	ESR-1917	1.50"	8"	12"	3.25"	25 FT-LB	882 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 OF EXPANSION ANCHORS PER 2019 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.
 - (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.



TYPICAL CONCRETE EDGE DETAIL



www.EquipmentAnchorage.com

MEDIVATORS

ADVANTÁGE PLUS® PASS-THRU ENDOSCOPE REPROCESSOR

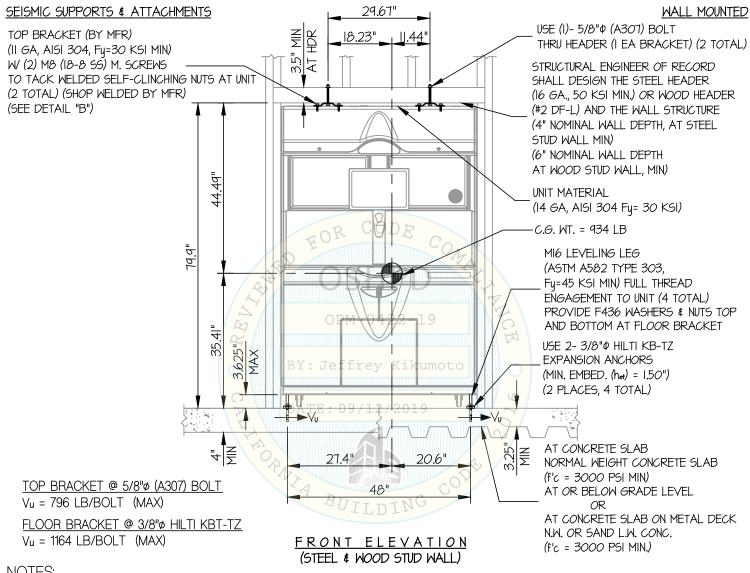
DES. J. ROBERSON

11-1705 JOB NO.

9/10/19 DATE

SHEET

SHEETS



NOTES:

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

STRENGTH DESIGN IS USED. (SDS = 2.00, 2p = 1.0, p = 1.5, p =

HORIZONTAL FORCE (Eh) = 2.40 Wp VERTICAL FORCE (E_V) = 0.40 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 ON SHEETS 1 AND 2.



www.EquipmentAnchorage.com

MEDIVATORS

AÐVANTÁGE PLUS® PASS-THRU ENDOSCOPE REPROCESSOR

DES. J. ROBERSON

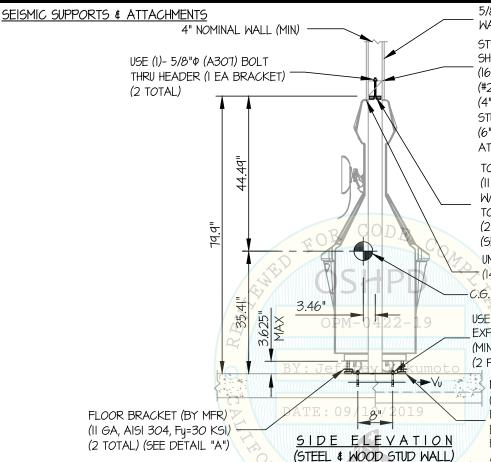
11-1705 JOB NO.

9/10/19 DATE

SHEET

OF SHEETS

WALL MOUNTED



5/8" THK. WALL BOARD

STRUCTURAL ENGINEER OF RECORD SHALL DESIGN THE STEEL HEADER (16 GA., 50 KSI MIN.) OR WOOD HEADER (#2 DF-L) AND THE WALL STRUCTURE (4" NOMINAL WALL DEPTH, AT STEEL

STUD WALL MIN)

(6" NOMINAL WALL DEPTH AT WOOD STUD WALL, MIN)

TOP BRACKET (BY MFR) (II GA, AISI 304, Fy=30 KSI MIN) W/ (2) M8 (18-8 SS) M. SCREWS

TO TACK WELDED SELF-CLINCHING NUTS AT UNIT (2 TOTAL) (SHOP WELDED BY MFR)

(SEE DETAIL "B")

UNIT MATERIAL

(14 GA, AISI 304 Fy= 42 KSI)

C.G. WT. = 934 LB

USE 2-3/8" HILTI KB-TZ EXPANSION ANCHORS (MIN. EMBED. (het) = 1.50") (2 PLACES, 4 TOTAL)

MI6 LEVELING LEG (ASTM A582 TYPE 303, Fu=45 KSI MIN) FULL THREAD ENGAGEMENT TO UNIT (4 TOTAL)

PROVIDE F436 WASHERS & NUTS TOP AND BOTTOM AT FLOOR BRACKET

> No. 4197 EXP. 6-30-2020

ANIA BUILDING

www.EquipmentAnchorage.com

MEDIVATORS

AÐVANTÁGE PLUS® PASS-THRU ENDOSCOPE REPROCESSOR

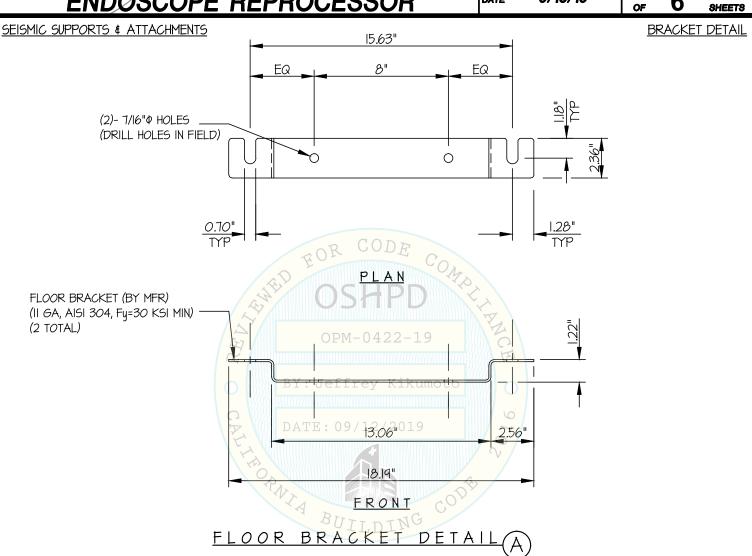
DES. J. ROBERSON

11-1705 JOB NO.

9/10/19 DATE

SHEET

SHEETS





www.EquipmentAnchorage.com

MEDIVATORS

ADVANTAGE PLUS® PASS-THRU ENDOSCOPE REPROCESSOR

DES. J. ROBERSON

JOB NO. 11-1705

DATE 9/10/19

SHEET 6

BRACKET DETAIL

SEISMIC SUPPORTS & ATTACHMENTS

O.59"
TYP

EQ

(2)- 0.33"

HOLES

(DRILL HOLE IN FIELD)

TOP BRACKET (BY MFR)
(II GA, AISI 304, Fy=30 KSI MIN)
(2 TOTAL)

DATE: 09/12/2019

FRONT

TOP BRACKET DETAI

