

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

- MMINI-									
APPLICATION FOR HCAI PREAPPRO	OFFICE USE ONLY APPLICATION #: OPM-0512								
MANUFACTURER'S CERTIFICATION									
HCAI Preapproval of Manufacturer's Certification (OPM)									
Type: X New Renewal/Update									
Manufacturer Information									
Manufacturer: Getinge USA									
Manufacturer's Technical Representative: Paul Fraser									
Mailing Address: 1777 E. Henrietta Road, Rochester,	NY 14623								
Telephone: (201) 574-3596 Em	ail: paul.fraser@getinge.	com							
NED LO	Maria								
Product Information		E.							
Product Name: Satelite	PM-0512	C							
Product Type: Cantilever									
Product Model Number: Satelite Surgical Light	/illiam Staehlin	0							
General Description: Overhead surgical lights and mo	nitors used in surgery roo	ms							
E DAT	. 09/29/2023	000							
Applicant Information									
Applicant Company Name: EASE LLC.	Marie CO								
Contact Person: Tiffany Tonn	BUILDING								
Mailing Address: 1515 FAIRVIEW AVE, STE 205, MIS	SOULA, MT 59801								

"A healthier California where all receive equitable, affordable, and quality health care"

HCAi

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY

Telephone: (406) 541-3273

Title:

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: () - Email: jon@EASECo.com									
HCAI Special Seismic Certification Preapproval (OSP)									
Special Seismic Certification is preapproved under OSP OSP Number:									
2000									
FOR CODE COAS									
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 HCAI prior to testing.									
X Analysis									
Experience Data DATE: 09/29/2023									
Combination of Testing, Analysis, and/or Experience Data (Please Specify):									
COVE COVE									
HCAI Approval									
Date: 9/29/2023									
Name: William Staehlin Title: Senior Structural Engineer									
Condition of Approval (if applicable):									

"A healthier California where all receive equitable, affordable, and quality health care"

HCAi

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-0512

THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE

MANUFACTURER: **GETINGE USA, INC.**

SATELITE SURGICAL LIGHTS

Sheet: 1 of 10 Date: 9/19/23

GENERAL NOTES

EQUIPMENT NAME:

- 1. THIS HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2022 CBC. THE DEMANDS
- 2. (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2022 CBC
- 3. 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.
- 4. THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN 2.20.
- 5. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE SDS = 2.20, $A_p = 2.5$, $A_p = 2.5$, A
- THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- 7. ALL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.
- 8. CONCRETE SLAB ON METAL DECK DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION IN THE BUILDING. (i.e. z/h < 1)

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.



EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

9/19/23

www.EquipmentAnchorage.com

GETINGE USA, INC.

DES. J. ROBERSON
JOB NO. 36-1403

DATE

2

10 SHEET

SATELITE SURGICAL LIGHTS

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. fc (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Over Flutes	Torque Test	Direct Tension Test
1/2"	Sand Light Weight	3000	Hilti Kwik Bolt TZ2 (CARBON STEEL)	ESR-4266	2"	6.75"	24"	3.25"	50 FT-LB	N/A

DATE: 09/29/2023

- 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 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 0512 RESPONSIBLE CHARGE.
 - (i) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, Indicate the difference of the supplies of the su
 - (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.



EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

www.EquipmentAnchorage.com

GETINGE USA, INC.

DES. J. ROBERSON

36-1403

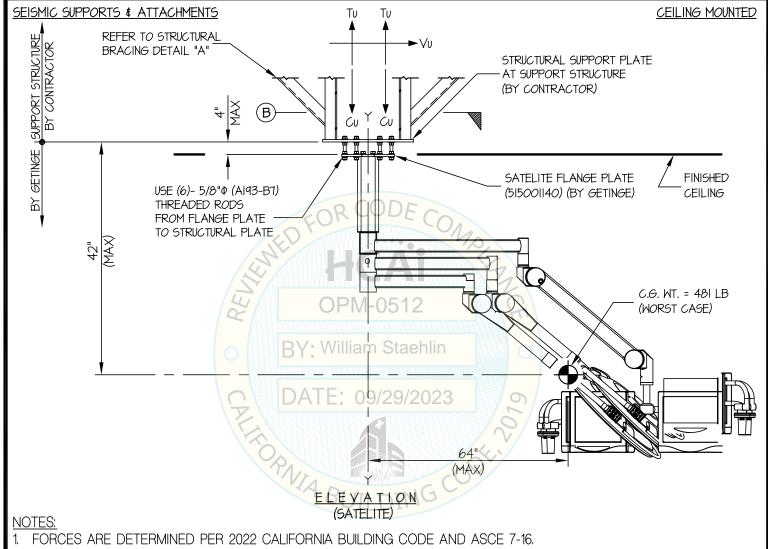
3

SATELITE SURGICAL LIGHTS

DATE 9/19/23

JOB NO.

10 SHEETS



I. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: SDS = 2.20, 2 = 2.5,

HORIZONTAL FORCE (Eh) = 3.96 Wp

HORIZONTAL FORCE (Emh) = 7.92 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.44 Wp

2. THIS CALCULATION 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.



EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

www.EquipmentAnchorage.com

GETINGE USA, INC.

JOB NO. 36-1403

DES. J. ROBERSON

4

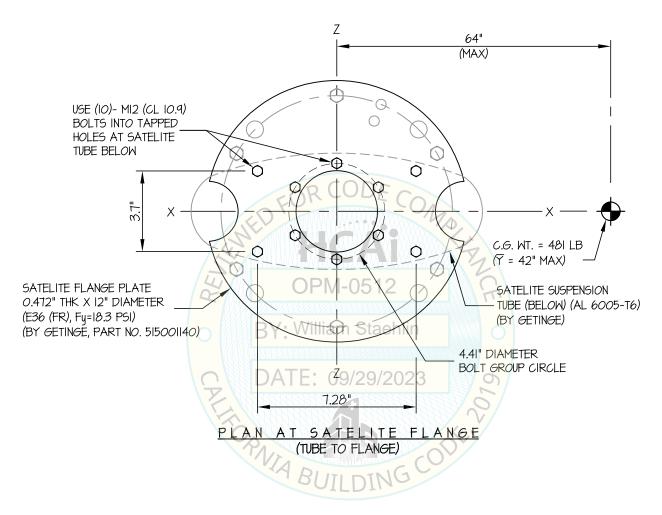
SATELITE SURGICAL LIGHTS

DATE 9/19/23

10 SHEE

SEISMIC SUPPORTS & ATTACHMENTS

SATELITE TUBE TO SATELITE FLANGE PLATE





EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

www.EquipmentAnchorage.com

GETINGE USA, INC.

DES. J. ROBERSON

36-1403

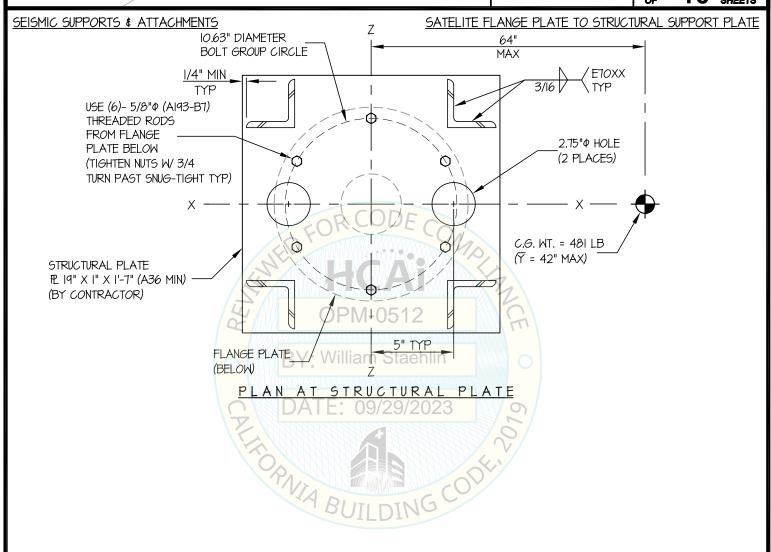
5

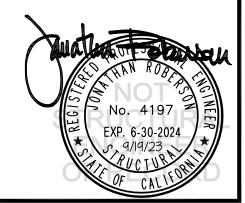
SATELITE SURGICAL LIGHTS

DATE 9/19/23

JOB NO.

10 SHEETS





EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

www.EquipmentAnchorage.com

GETINGE USA, INC.

DES. J. ROBERSON

36-1403

6

SATELITE SURGICAL LIGHTS

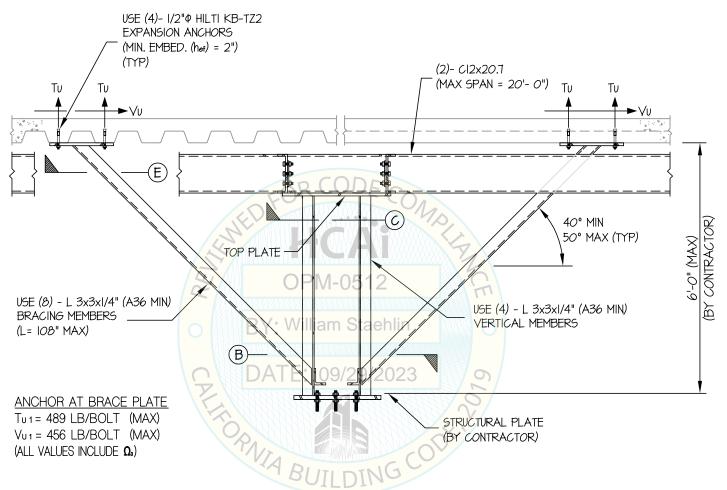
DATE 9/19/23

JOB NO.

10 SHEETS



BRACING DETAILS





STRUCTURAL BRACING

EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

www.EquipmentAnchorage.com

GETINGE USA, INC.

36-1403 JOB NO.

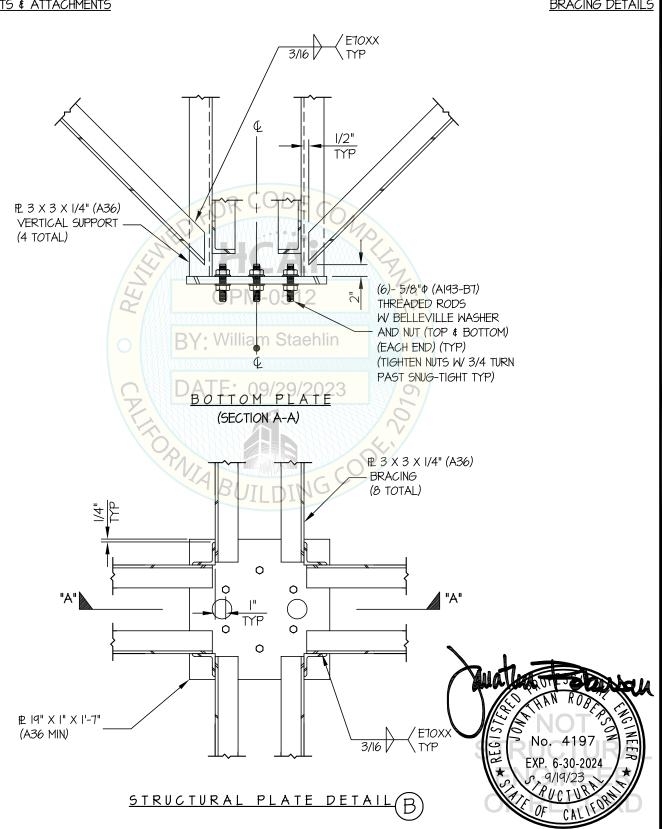
DES. J. ROBERSON

SATELITE SURGICAL LIGHTS

9/19/23 DATE

SEISMIC SUPPORTS & ATTACHMENTS

BRACING DETAILS



EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

www.EquipmentAnchorage.com

GETINGE USA, INC.

DES. J. ROBERSON
JOB NO. 36-1403

8

SATELITE SURGICAL LIGHTS

DATE 9/19/23

<u></u>

_<u>₽</u>

CI2x20.7 BLOCKING AT SUPPORT STRUCTURE

W/ (3)- 5/8" (A325) BOLTS

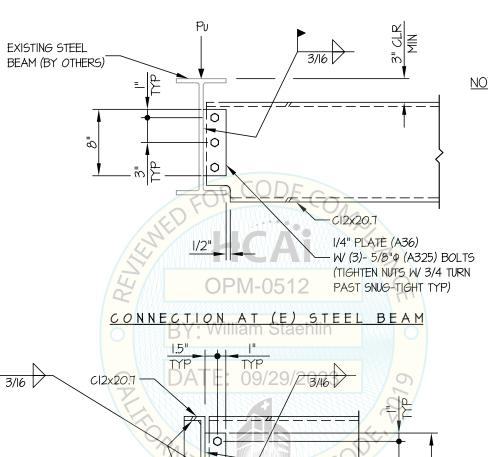
(TIGHTEN NUTS W/ 3/4 TURN PAST SNUG-TIGHT TYP)

1/4" PLATE (A36)

10 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CEILING MOUNTED



NOTE CHECK (E) BEAM FOR ADDITIONAL LOAD OF Pu = 8.0K LOCATED HALFWAY BETWEEN (N) C12x BEAMS

CONNECTION AT BLOCKING

MCI8x CONNECTION DETAILS D



1/4" STIFFENER PL

SIDE OF WEB

AT CI2x BLOCKING AT OPPOSITE

EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

www.EquipmentAnchorage.com

GETINGE USA, INC.

DES. J. ROBERSON

36-1403

9

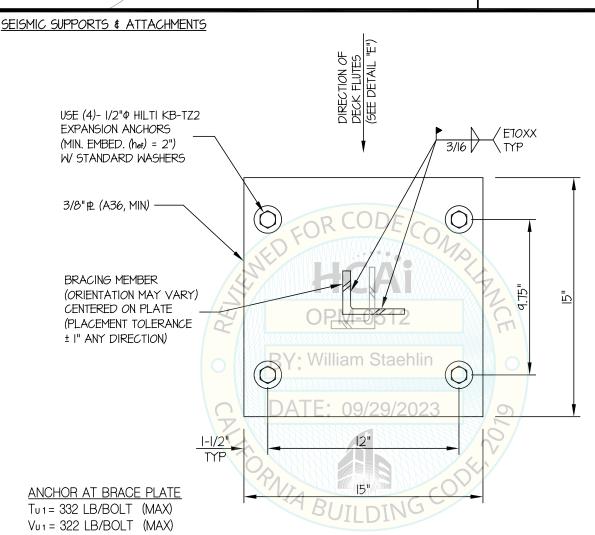
SATELITE SURGICAL LIGHTS

DATE 9/19/23

JOB NO.

_F 10 _{SHEETS}

BRACING DETAILS





BRACE PLATE DETAI

EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

www.EquipmentAnchorage.com

GETINGE USA, INC.

DES. J. ROBERSON

36-1403

10

SATELITE SURGICAL LIGHTS

DATE 9/19/23

JOB NO.

10 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

BRACING DETAILS

