

### DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI PREAPPROVAL OF	OFFICE USE ONLY
MANUFACTURER'S CERTIFICATION (OPM)	APPLICATION #: OPM-0513
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 Email: paul.fraser@g	getinge.com
	OMA
Product Information	Z
Product Name: Lucea and Volista Access OPM-0513	15
Product Type: Cantilever	
Product Model Number: Lucea 40, Lucea 50, Lucea 100 and Volista Acc	less O
General Description: Overhead exam lights used in exam rooms	
PATE: 09/29/202	23 610
Applicant Information	4.
Applicant Company Name: EASE LLC.	CO
Contact Person: Tiffany Tonn	
Mailing Address: 1515 FAIRVIEW AVE STE 205 MISSOUL A MT 5980	1

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

HC/

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):					

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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-0513

THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE

MANUFACTURER: GETINGE USA, INC.

Sheet: 1 of 11

**EQUIPMENT NAME:** 

**LUCEA AND VOLISTA ACCESS EXAM LIGHTS** 

Date: 9/8/23

#### **GENERAL NOTES**

- 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.
- 4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE SDS = 2.20,  $\mathbf{a}_p$  = 2.5,  $\mathbf{l}_p$  = 1.5,  $\mathbf{R}_p$  = 2.5,  $\mathbf{z}/h \le 1$  AT CONCRETE SLAB ON METAL DECK. SEE FOLLOWING SHEETS FOR  $\Omega_0$  and  $\Omega_0$  are the second statement of the second sta
- 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 ON GRADE DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION 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 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.
- 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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#### GETINGE USA, INC.

#### LUCEA AND VOLISTA ACCESS EXAM LIGHTS

DES. J. ROBERSON

JOB NO. 36-1403

DATE 9/8/23

2 2

1 SHEETS

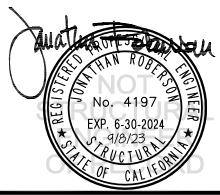
#### 10. EXPANSION ANCHORS:

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. 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 SESPONSIBLE CHARGE.
  - (i) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, Industry 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.



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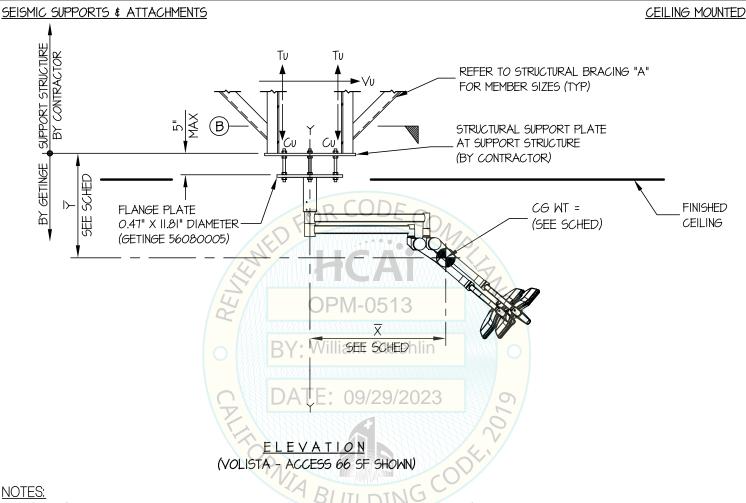
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#### LUCEA AND VOLISTA ACCESS **EXAM LIGHTS**

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36-1403 JOB NO.

9/8/23 DATE



#### NOTES:

FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: SDS = 2.20,  $\Delta p$  = 2.5, p = 1.5, p = 2.5, p = 2.0, p =

> HORIZONTAL FORCE (Eh) = 3.96 Wp

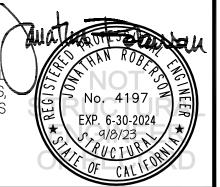
HORIZONTAL FORCE (Emh) = 7.92 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.46 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 AL 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.



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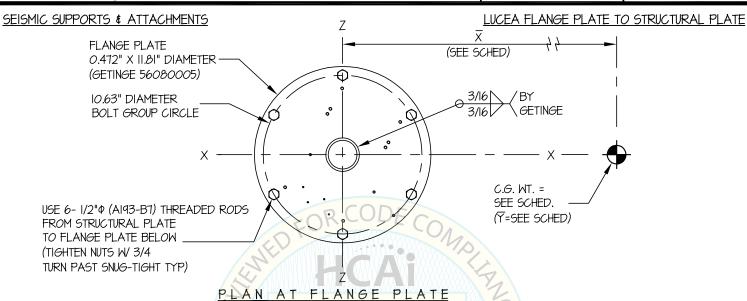
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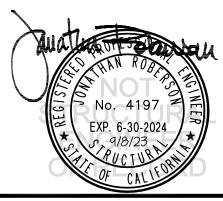
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MODELS	TOTAL LOAD (LB.)	⊼ V(in,) I i s	√ m(in)St	* Tu (lb.)	* Cu (lb.)	* Vu (lb.)	* MOMENT (Mxx) (IN-LB)	* MOMENT (Myy) (IN-LB)
LUCEA 40	22	30.4	33.5	258	250	110	4021	3040
LUCEA 50	23	32.6	34.7	281	273	117	4383	3260
LUCEA 100	31	39.4	38.8	434	423	144	6790	3940
LUCEA 50/50	48	33.8	38.1	633	617	138	9896	3380
LUCEA 50/100	56	37.4	40.8	799	780	154	12,506	3740
LUCEA 100/100	64	40.8	42.1	953	931	170	14,927	4080
VOLISTA ACCESS 60 DF	61	52.1	36.7	901	879	204	14,102	5210
VOLISTA ACCESS 60 SF	58	65.7	29.3	832	812	244	13,020	6570
VOLISTA ACCESS 66 DF	121	55.3	39.8	1915	1873	253	30,025	5530
VOLISTA ACCESS 66 SF	183	52.1	74.5	4417	4353	284	69,674	5210

<sup>\*</sup> FORCES AT THREADED BOLT CONNECTION TO STRUCTURAL PLATE



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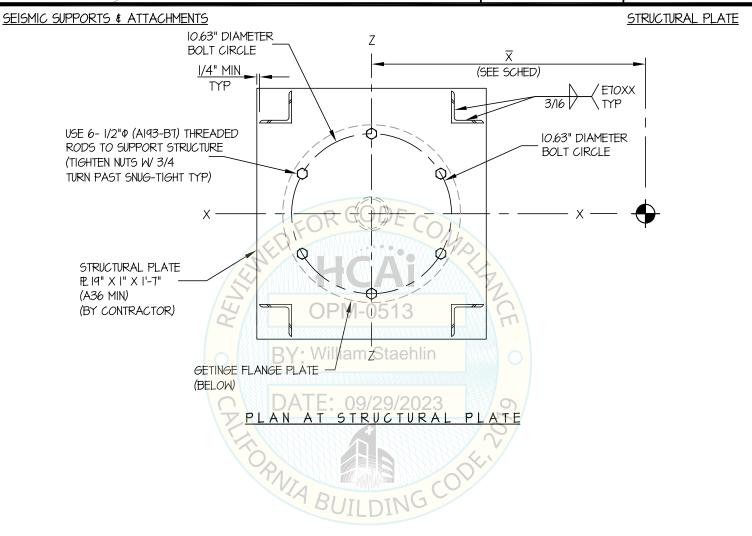
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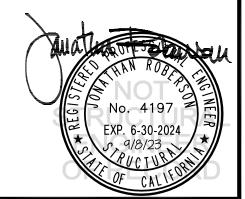
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SHEET 5





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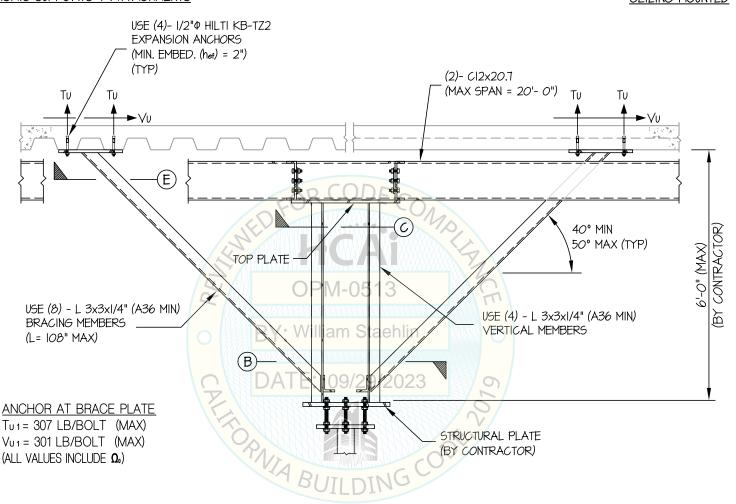
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6

11 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CEILING MOUNTED



STRUCTURAL BRACING



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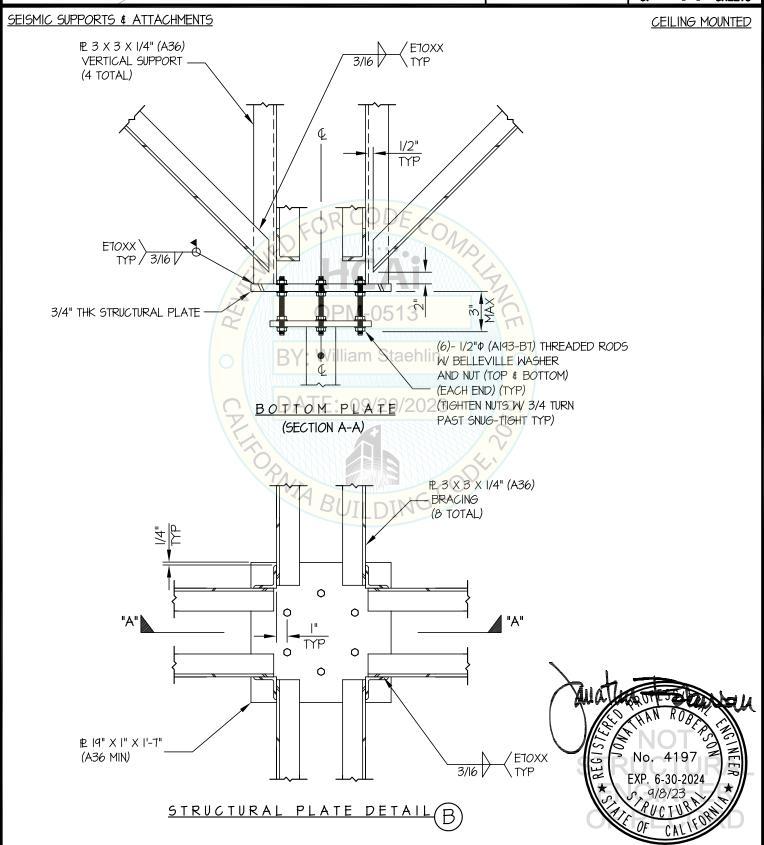
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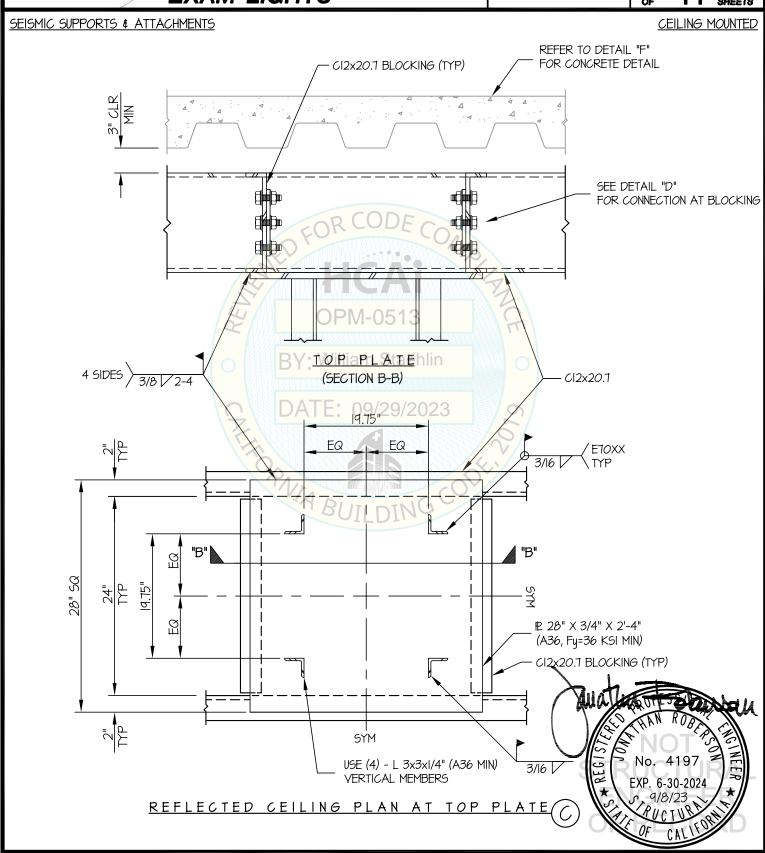
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8HEET



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CI2x20.7 BLOCKING AT SUPPORT STRUCTURE

W/ (3)- 5/8"Φ (A325) BOLTS

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

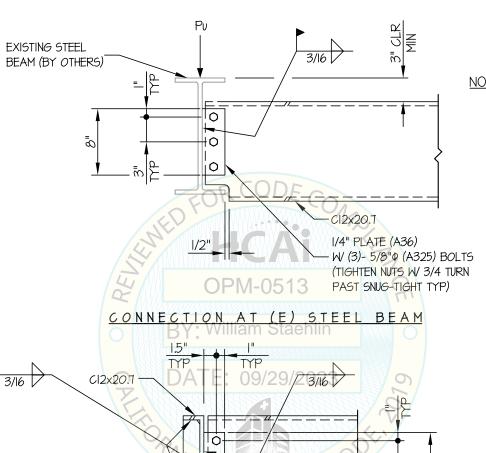
1/4" PLATE (A36)

9

11 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CEILING MOUNTED



NOTE CHECK (E) BEAM FOR ADDITIONAL LOAD OF Pu = 5.0K LOCATED HALFWAY BETWEEN (N) C12x BEAMS

CONNECTION AT BLOCKING

MCI8x CONNECTION DETAILS D



1/4" STIFFENER PL

AT OPPOSITE SIDE OF WEB

AT CI2x BLOCKING

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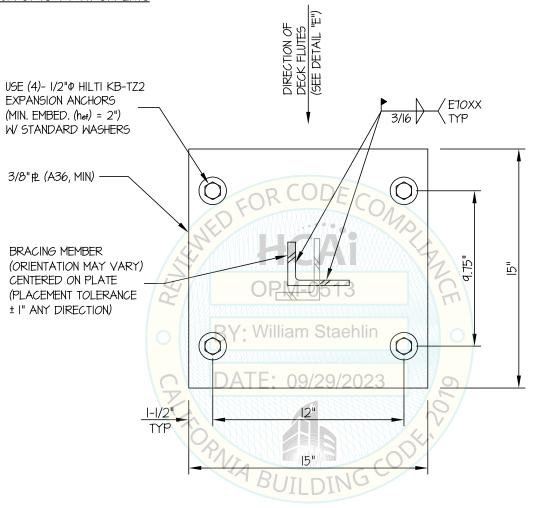
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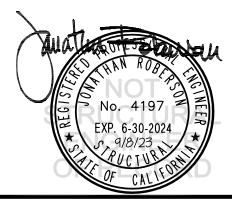
9/8/23 DATE

SHEET

SEISMIC SUPPORTS & ATTACHMENTS

**BRACING DETAILS** 





BRACE PLATE DETAIL

# EASE .

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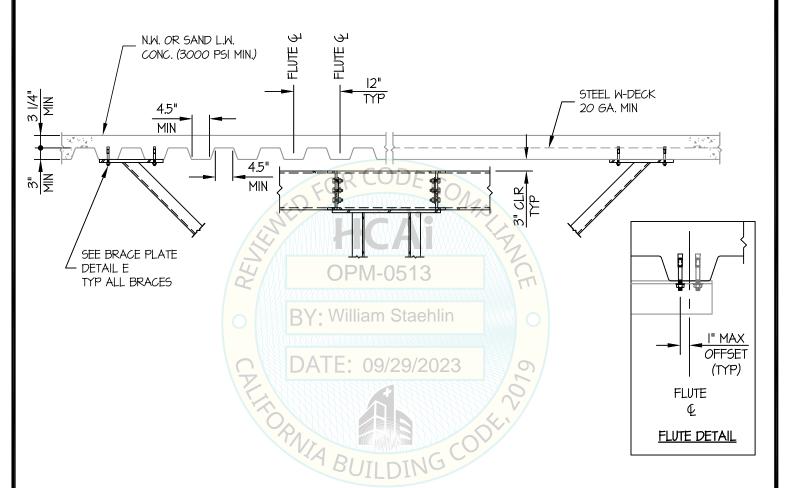
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3HEET 1

11 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CEILING MOUNTED



MIN STEEL DECK REQUIREMENTS AND STRUT DETAIL (F)

