

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

| MANIANA | | |
|-----------------------------------|---|----------------------------|
| APPLICATION FOR OSI | HPD PREAPPROVAL OF | OFFICE USE ONLY |
| MANUFACTURER'S CE | RTIFICATION (OPM) | APPLICATION #: OPM-0597 |
| OSHPD Preapproval of Manuf | acturer's Certification (OPM) | |
| Type: X New Renewal | /Update | |
| | | |
| Manufacturer Information | | |
| Manufacturer: IPA | | |
| Manufacturer's Technical Represer | tative: Kyle Joiner | |
| Mailing Address: 3059 Premiere Pa | arkway, Suite 200, Duluth, GA 30097 | |
| Telephone: (678) 994-0205 | Email: kjoiner@thinkipa.con | n |
| | FOR CODE COM | |
| Product Information | OSHPD | 2 |
| Product Name: alEx Linen Center 2 | 2.0 | Y Z |
| Product Type: Other Mechanical C | Components Constructed of High-deformabilit | y mat <mark>eria</mark> ls |
| Product Model Number: N/A | BY: Keh-Shin Chi | |
| General Description: Dispenses C | lea <mark>n Scr</mark> ub Suits to Authorized Users | |
| | DATE: 10/13/2021 | 67. |
| | | No. |
| Applicant Information | 0 | ¢, / |
| Applicant Company Name: EASE I | LC. | 37 |
| | 5 | |

Contact Person: Tiffany Tonn

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

Telephone: (406) 541-3273 Email: tiffany@easeco.com

Title: Office Manager

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

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY







OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

| Registered Design Professonal Preparing Engineering Recommendations | | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| Company Name: EASE | | | | | | | | |
| lame: Jonathan Roberson California License Number: S4197 | | | | | | | | |
| Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709 | | | | | | | | |
| phone: (951) 295-1892 | | | | | | | | |
| | | | | | | | | |
| OSHPD Special Seismic Certification Preapproval (OSP) | | | | | | | | |
| | | | | | | | | |
| Special Seismic Certification is preapproved under OSP OSP Number: | | | | | | | | |
| | | | | | | | | |
| Certification Method | | | | | | | | |
| Testing in accordance with: ICC-ES AC156 FM 1950-16 | | | | | | | | |
| 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. | | | | | | | | |
| BY: Keh-Shin Chi | | | | | | | | |
| Experience Data DATE: 10/13/2021 | | | | | | | | |
| Combination of Testing, Analysis, and/or Experience Data (Please Specify): | | | | | | | | |
| | | | | | | | | |
| CODI | | | | | | | | |
| OSHPD Approval BUILDING | | | | | | | | |
| Date: 10/13/2021 | | | | | | | | |
| Name: Keh-Shin Chi Title: Senior Structural Engineer | | | | | | | | |
| Condition of Approval (if applicable): | | | | | | | | |
| | | | | | | | | |

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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-0597

THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE

MANUFACTURER: IPA, LLC

Sheet: _1 of 12

EQUIPMENT NAME: alex Linen center 2.0

Date: 10/11/21

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 1.30 & 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 = 1.30, \mathbf{a}_P = 1.0, \mathbf{I}_P = 1.5, \mathbf{R}_P = 2.5, \mathbf{z}/h = 0 AT CONCRETE SLAB. SEE FOLLOWING SHEETS FOR Ω_{α} WHERE SDS = 2.30, \mathbf{a}_P = 1.0, \mathbf{I}_P = 1.5, \mathbf{R}_P = 2.5, \mathbf{z}/h < 1 AT CONCRETE SLAB ON METAL DECK. SEE FOLLOWING SHEETS FOR Ω_{α}
- 5. SHEET METAL SCREWS SHALL BE TEKS BY ITW BUILDEX. ICC ESR-1976 21
- 6. WOOD SCREWS SHALL CONFORM TO ANSI/ASME B18.6.1 & NDS.
- 7. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- 8. ALL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.
- CONCRETE SLAB ON METAL DECK DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION IN THE BUILDING. (i.e. z/h < 1)
- 10. CONCRETE SLAB DETAIL VALID FOR DEMANDS SHOWN AT OR BELOW GRADE. (i.e. z/h = 0)

11. 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.



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IPA, LLC

DES. J. ROBERSON

10/11/21

2

SHEET

— Job no. 11-2023

DATE

12 shee

aJÉX LINEN CENTER 2.0

12. EXPANSION ANCHORS:

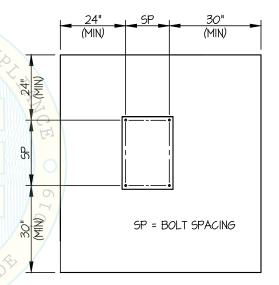
A. ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

| 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 (CARBON STEEL) | ESR-4266 | 2" | 6.75" | 12" | See Detail "A" | 30 FT-LB | N/A |
| 1/2" | Normal Weight | 3000 | Hilti Kwik Bolt TZ2 (CARBON STEEL) | ESR-4266 | 3.25" | 12" | 24" | 6" | 50 FT-LB | 3282 lb |
| 5/8" | Normal Weight | 3000 | Hilti Kwik Bolt TZ2 (CARBON STEEL) | ESR-4266 | 4" | 11" | 24" | 6" | 40 FT-LB | 4161 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 AND SPECIAL INSPECTION OF EXPANSION ANCHORS SHALL
 BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY
 EMPLOYED BY THE FACILITY OWNER PER CBC 1704A & 1910A.54 0 5 9 7
 AND CAC 7-149. ALL REPORTS SHALL BE SENT TO THE INSPECTOR
 OF RECORD, OWNER AND THE ARCHITECT OR ENGINEER IN
 RESPONSIBLE CHARGE.

 BY: Keh-Shin Chi
 - (i) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, DIRECT PULL TENSION TEST OR TORQUE TEST AT LEAST 50% OF / 2 0 2 1 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
 - C. (HOLE SIZE = BOLT SIZE + 1/16) FOR CONCRETE.
 - D. 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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OF 12 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED

WALL MOUNTED

MOUNTING CHANNELS
(A653 I4 GA., 33 ksi)
(BY IPA)

C.G. WT. = SEE SCHED

FRONTOELEVATION
(AIEX LC-DEEP)

NOTES:

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

STRENGTH DESIGN IS USED. (SDS = 2.30, 2p = 10, 2p = 15, 2p = 25, 2p = 20, 2p =

HORIZONTAL FORCE (En) = 1.66 Wp

HORIZONTAL FORCE (Emh) = 3.32 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.46 Wp

- 2. CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THESE CALCULATIONS ENCOMPASS ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.
- 3. STRUCTURAL ENGINEER OF RECORD FOR THE BUILDING SHALL VERIFY ALL CONDITIONS AND 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

DATE 10/11/21

of 12 SHEETS

WALL MOUNTED



SEISMIC SUPPORTS & ATTACHMENTS

SEE DETAIL "C"
FOR BRACKET DETAIL

WALL STRUCTURE
BY STRUCTURAL ENGINEER

OF RECORD

C.G. WT. = SEE SCHED

5/8" THK

WALL BOARD

NOTE: LOWER CONNECTION SIMILAR

| - VOYMAA | | | | | | | | | | |
|-----------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|----------------|--|
| UNIT MODEL | WEIGHT (Ib.) | "A" (in.) | "B" (in.) | "C" (in.) | "D" (in.) | "E" (in.) | "F" (in.) | ** Tu (lb.) | ** Vu (lb.) | |
| alEx LC-DEEP | 1013 | 29.5 | 12.5 | 53.5 | 66 | 15.25 | 2.875 | 179 | 103 | |
| alEx LC-SHALLOW | 866 | 29.5 | 12.5 | 53.5 | 66 | 11.88 | 3.75 | 125 | 88 | |
| alEx MC-DEEP | 867 | 29.63 | 12.38 | 53.62 | 54 | 13.12 | 2.75 | 141 | 92 | |
| alFx MC-SHALLOW | 716 | 29.63 | 12.38 | 53.62 | 54 | 10.00 | 2.875 | 94 | 73 | |

SIDE ELEVATION
(alex LC-DEEP)

**VALUES DO NOT INCLUDE Ω_0)



EASE

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alEx LINEN CENTER 2.0

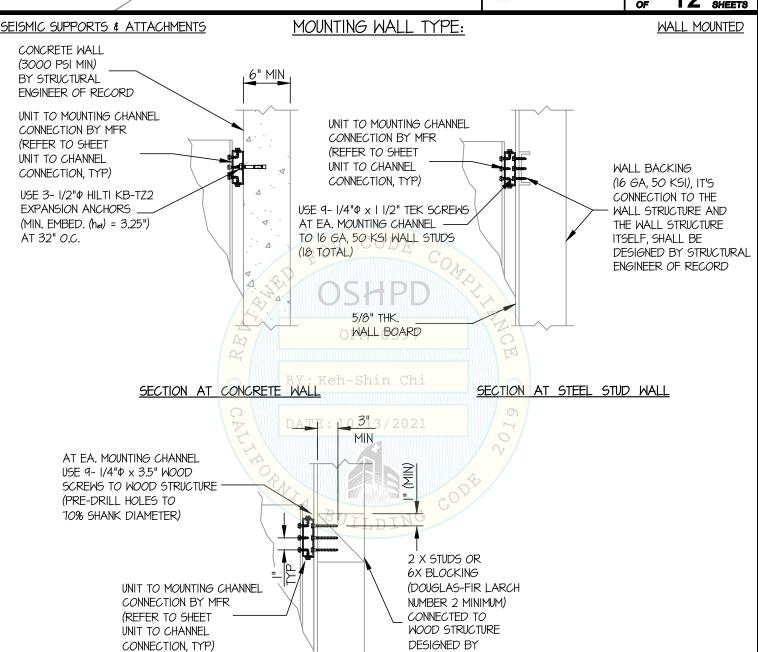
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JOB NO. 11-2023

SHEET 5

DATE 10/11/21

of 12 SHEETS



SECTION WOOD STUD WALL

5/8" THK. __ WALL BOARD STRUCTURAL ENGINEER

OF RECORD

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EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

DATE

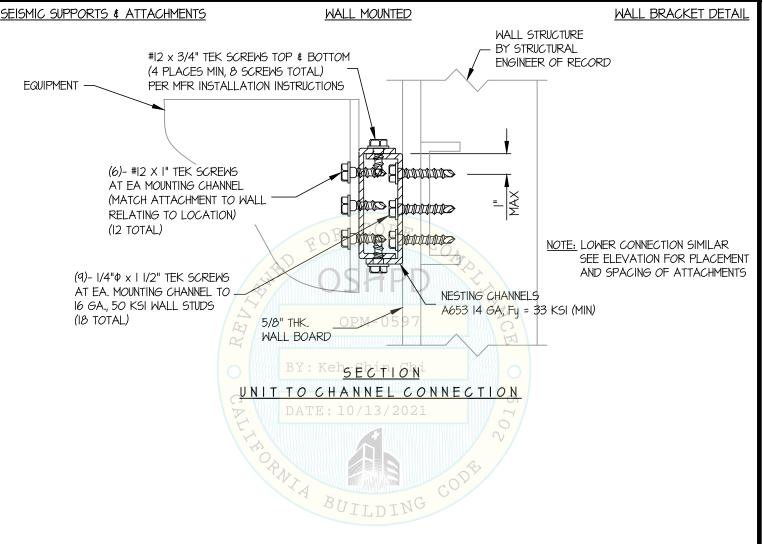
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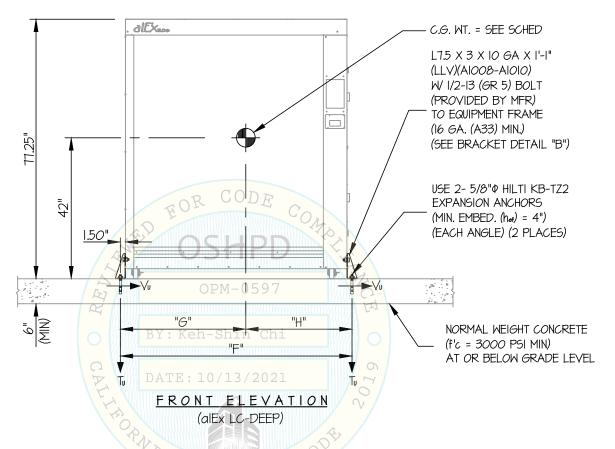
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SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

FLOOR MOUNTED

CONCRETE SLAB



NOTES:

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

STRENGTH DESIGN IS USED. (SDS = 1.30, $\Delta p = 1.0$, D = 1.5, Rp = 2.5, $\Omega_0 = 2.0$, z/h = 0)

HORIZONTAL FORCE (Eh) = 0.585 Wp

HORIZONTAL FORCE (Emh) = 1.17 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.26 Wp

2. CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THESE CALCULATIONS ENCOMPASS ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.

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4. SEE GENERAL NOTES: SHEETS 1 AND 2



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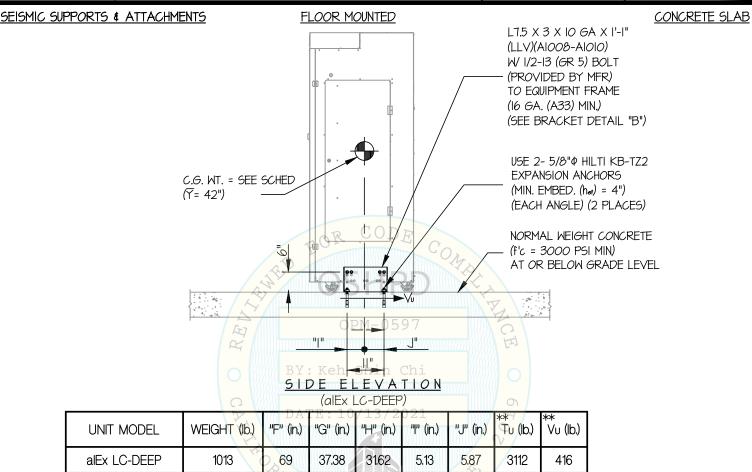
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JOB NO.

OF 12 SHEETS



alEx LC-SHALLOW

alEx MC-DEEP

alEx MC-SHALLOW

866

867

716

69

57

57

38.25

31.25

31.38

30.75

25.75

25.62

6.50

7.25

8.38

4.50

3.75

2.62

2665

2521

1937

383

418

388



^{**}VALUES INCLUDE Ω₀

11-2023

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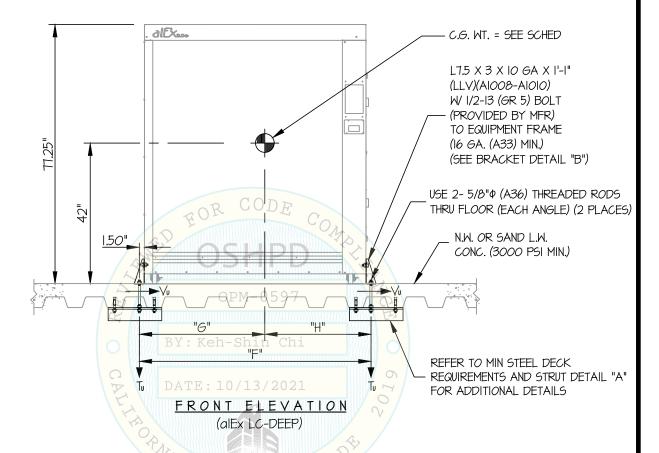
SHEETS

SHEET

SEISMIC SUPPORTS & ATTACHMENTS

FLOOR MOUNTED

CONCRETE SLAB ON METAL DECK



NOTES:

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4. SEE GENERAL NOTES: SHEETS 1 AND 2



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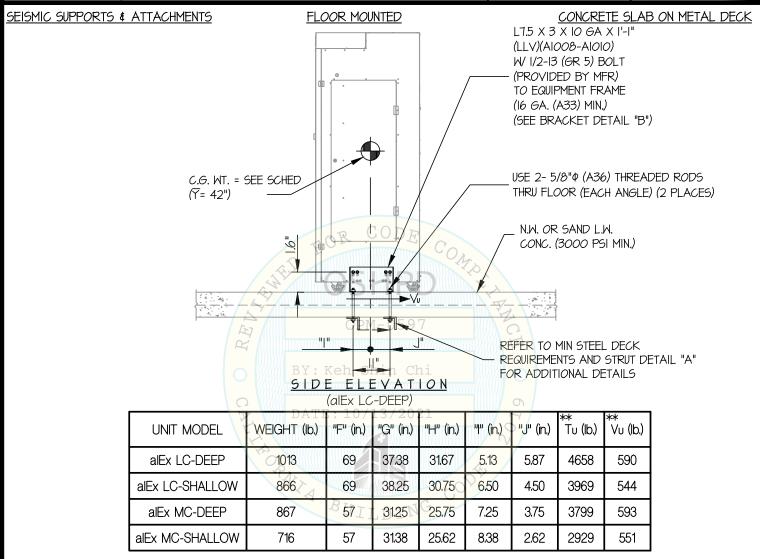
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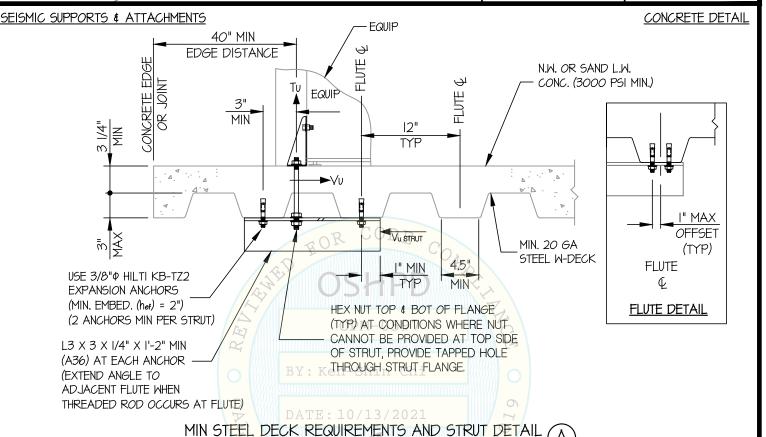
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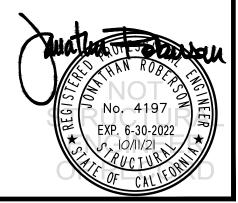
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