

## OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD PREAPPROVAL OF	OFFICE USE ONLY			
MANUFACTURER'S CERTIFICATION (OPM)	APPLICATION #: OPM-0156			
OSHPD Preapproval of Manufacturer's Certification (OPM)				

• •	,							
Type: New X Renewal/Update								
Manufacturer Information								
Manufacturer: IPA, Inc.								
Manufacturer's Technical Representative: Ste	eve Blomberg							
Mailing Address: 3059 Premiere Parkway Suite 200, Duluth, GA 30097								
Telephone: () -	Email: sblomberg@thinkipa.com							
	EOR CODE COM							
Product Information	OSHPD							
Product Name: alEx SD, alEx SD64 2.0 and s	scrubEx XL							
Product Type: Other Mechanical Component	ts Constructed of High-deformability materials							
Product Model Number: N/A	BY: William Staehlin							
General Description: Dispenses Clean Linen to Authorized EMS Personnel								
ALI	DATE: 01/11/2022							
Applicant Information								
Applicant Company Name: EASE LLC.	CODY							
Contact Person: Tiffany Tonn	BUILDING							
Mailing Address: 1515 FAIRVIEW AVE, STE 205, MISSOULA, MT 59801								
Telephone: (406) 541-3273	Email: tiffany@easeco.com							

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

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





Title: Office Manager



## OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT 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:         (951) 295-1892         Email:         jon@EASECo.com						
OSHPD Special Seismic Certification Preapproval (OSP)						
Special Seismic Certification is preapproved under OSP OSP Number:						
a un						
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: William Staehlin						
Experience Data  DATE: 01/11/2022						
Combination of Testing, Analysis, and/or Experience Data (Please Specify):						
CODE CODE						
OSHPD Approval  BUILDING						
Date: 1/11/2022						
Name: William Staehlin 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-0156** 

THIS PREAPPROVAL CONFORMS TO THE 2019 CALIFORNIA BUILDING CODE

MANUFACTURER: IPA, LLC

Sheet: 1 of 12

**EQUIPMENT NAME:** 

alEx SD, alEx SD64 2.0 & scrubEX XL DISPENSER

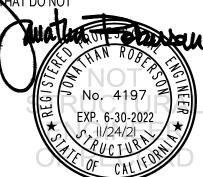
Date: 11/24/21

### **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 1.50, 2.20. 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 = 1.50,  $A_p = 1.0$ ,  $A_p = 1.0$ , A
- 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 OR BELOW GRADE. (i.e. z/h = 0)
- 9. SHEET METAL SCREWS SHALL BE TEKS SCREWS BY ITW BUILDEX (ICC ESR-1976).

### 10. 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.



www.EquipmentAnchorage.com

IPA, LLC

### alEx SD, alEx SD64 2.0 & scrubEX XL DISPENSER

DES. J. ROBERSON

**JOB NO.** 11-2127

DATE 11/24/21

SHEET 2

12 SHEETS

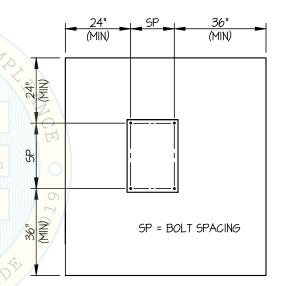
### 10. EXPANSION ANCHORS:

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	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	3325 lb
5/8"	Normal Weight	3000	Hilti Kwik Bolt TZ2 (CARBON STEEL)	ESR-4266	4"	11"	24"	6"	40 FT-LB	4350 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.5- 0 1 5 6
  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 2 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

(SLAB ON GRADE ONLY)



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alEx SD, alEx SD64 2.0 & scrubEX XL DISPENSER JOB NO. 11-2127 DATE 11/24/21 3

OF 12 SHEETS

WALL MOUNTED

SEISMIC SUPPORTS & ATTACHMENTS

Q UNIT, WALLSTUD
AND MOUNTING CHANNEL

(A653 I4 6A., 33 ksi)
(BY IPA.)

C.G. WT. =
1300 LB

FRONTELEVATION

 $\label{eq:tu} \begin{array}{ll} \text{Tu} = 220 \text{ LB/SCREW} & \text{(MAX)} \\ \text{Vu} = 148 \text{ LB/SCREW} & \text{(MAX)} \\ \text{(VALUES DO NOT INCLUDE } \Omega_{\text{o}} \end{array}$ 

#### NOTES:

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

STRENGTH DESIGN IS USED. (SDS = 2.20, ap = 1.0, lp = 1.5, Rp = 2.5,  $\Omega_{\rm o}$  = 2.0, z/h  $\leq$  1) HORIZONTAL FORCE (Eh) = 1.58 Wp

HORIZONTAL FONCE (Emh) = 3.16 Wp (FOR CONCRETE ANCHORAGE) VERTICAL FORCE (Ev) = 0.44 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.
- 4. SEE GENERAL NOTES: SHEETS 1 AND 2.

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DES. J. ROBERSON 11-2127

SHEET

alEx SD, alEx SD64 2.0 & scrubEX XL **DISPENSER** 

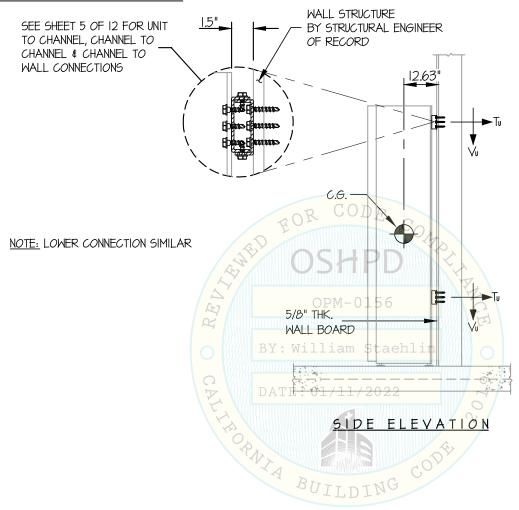
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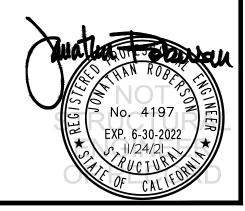
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OF SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED





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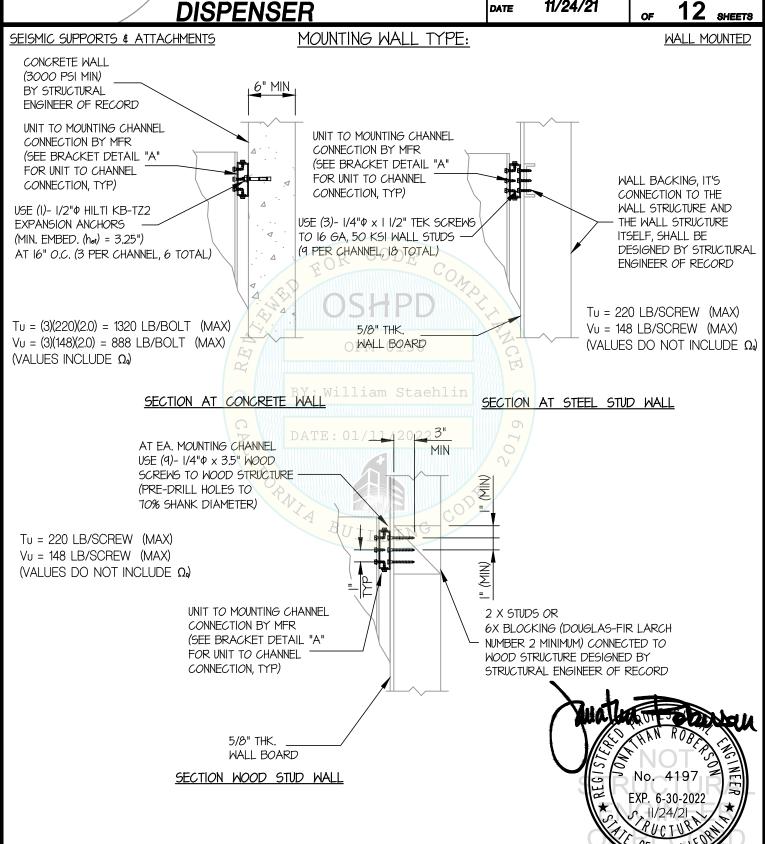
alEx SD, alEx SD64 2.0 & scrubEX XL

DES. J. ROBERSON

11-2127 JOB NO.

11/24/21 DATE

SHEET



# EASE

### **EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING**

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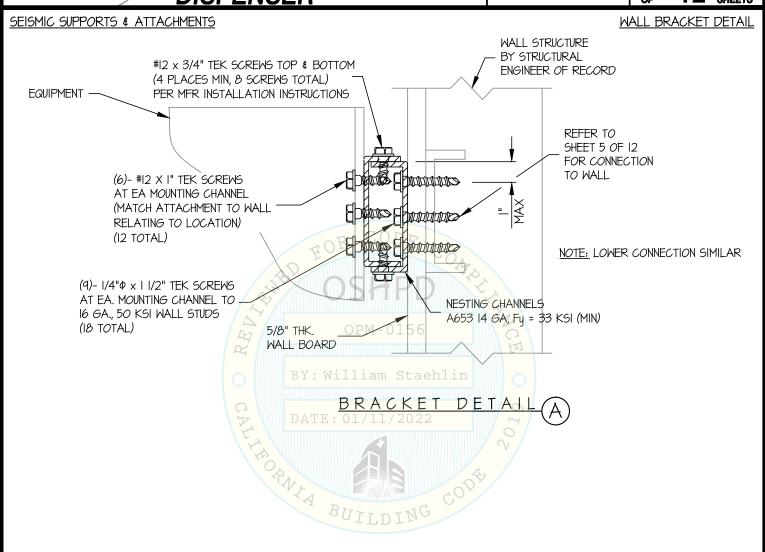
SHEET 6

alEx SD, alex SD64 2.0 & scrubEX XL DISPENSER

DATE 11/24/21

JOB NO.

OF 12 SHEETS





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11-2127 JOB NO. 11/24/21 DATE

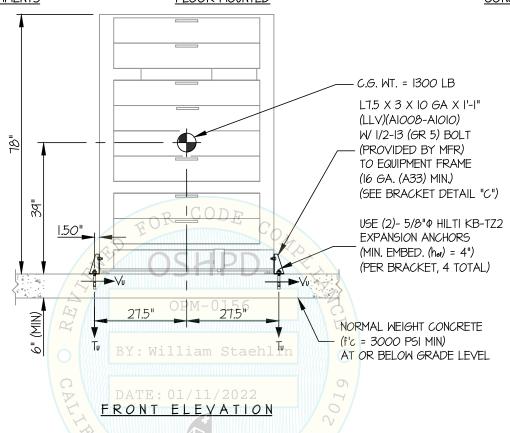
SHEETS

SHEET

SEISMIC SUPPORTS & ATTACHMENTS

FLOOR MOUNTED

CONCRETE SLAB



### NOTES:

Tu = 3118 LB/BOLT (MAX)

Vu = 770 LB/BOLT (MAX)(VALUES INCLUDE  $\Omega$ )

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

STRENGTH DESIGN IS USED. (SDS = 1.50, 2p = 1.0, 1p = 1.5, Rp = 2.5,  $\Omega_0 = 2.0$ , z/h = 0)

HORIZONTAL FORCE (Eh) = 0.675 Wp

HORIZONTAL FORCE (Emh) = 1.35 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.30 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.

4. SEE GENERAL NOTES: SHEETS 1 AND 2.

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8HEET

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DATE 11/24/21

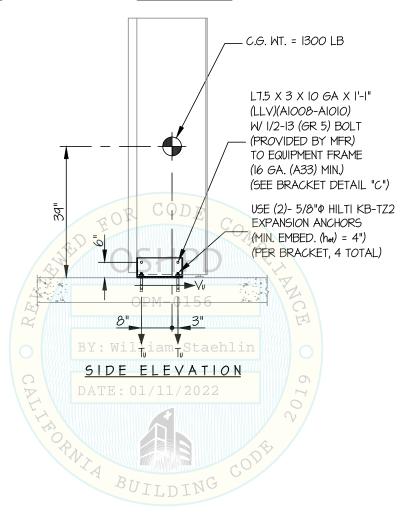
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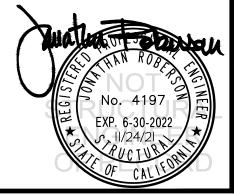
OF 12 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

FLOOR MOUNTED

CONCRETE SLAB





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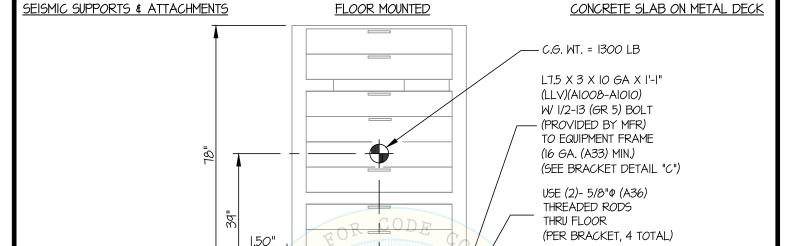
SHEET

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JOB NO.

OF 12 SHEETS



Tu = 3880 LB/BOLT (MAX)
Vu = 901 LB/BOLT (MAX)
(VALUES DO NOT INCLUDE  $\Omega$ )

OPM-0156 27.5" 27.5" 27.5" BY: William Staehlin

FIRADINI TO ELIEVANTOON

REFER TO MIN STEEL DECK REQUIREMENTS AND STRUT DETAIL "B" FOR ADDITIONAL DETAILS

N.W. OR SAND L.W. CONC. (3000 PSI MIN.)

### NOTES:

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

STRENGTH DESIGN IS USED. (SDS = 2.20,  $\Delta p$  = 1.0, |p| = 1.5, Rp = 2.5,  $\Omega_0$  = 2.0,  $z/h \le 1$ )

HORIZONTAL FORCE (En) = 1.58 Wp BUILDING

HORIZONTAL FORCE (Emh) = 3.16 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (Ev) = 0.44 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.

4. SEE GENERAL NOTES: SHEETS 1 AND 2.

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alEx SD, alEx SD64 2.0 & scrubEX XL **DISPENSER** 

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11/24/21

JOB NO.

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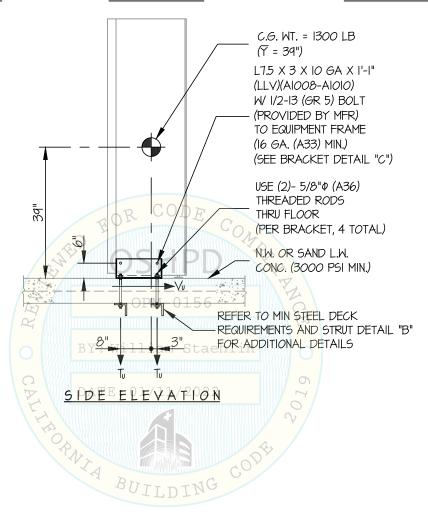
SHEET

SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

FLOOR MOUNTED

CONCRETE SLAB ON METAL DECK





## EASE

### **EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING**

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11

SHEET

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DATE 11/24/21

JOB NO.

of 12 SHEETS

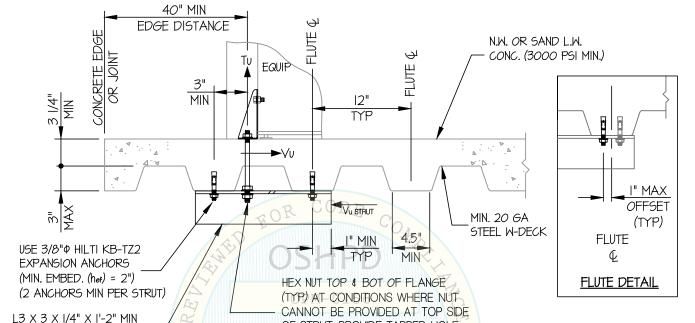
SEISMIC SUPPORTS & ATTACHMENTS

(A36) AT EACH ANCHOR

THREADED ROD OCCURS AT FLUTE)

(EXTEND ANGLE TO ADJACENT FLUTE WHEN

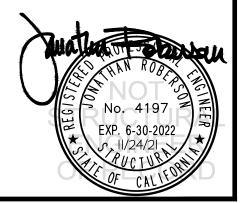
CONCRETE DETAIL



OF STRUT, PROVIDE TAPPED HOLE

MIN STEEL DECK REQUIREMENTS AND STRUT DETAIL

BY: WITHROUGH STRUT FLANGE.



### **EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING** www.EquipmentAnchorage.com SHEET

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alEx SD, alEx SD64 2.0 & scrubEX XL

11/24/21 DATE

JOB NO.

**DISPENSER** SHEETS SEISMIC SUPPORTS & ATTACHMENTS FLOOR MOUNTED BRACKET DETAIL A1008-A1010 (4) 9/16"Φ HOLES IO GA, Fy = 24 KSI (MIN)(2) 1/2-13 (GRADE 5) BOLT (USE UPPER HOLE, FIELD VERIFY) (2) II/I6"Φ HOLES ELEVATION SECTION

