



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD PREAPPROVAL
OF MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY

APPLICATION #: OPM-0518-13

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: [X] New [ ] Renewal [ ] Update to Pre-CBC 2013 OPA Number:

Manufacturer Information

Manufacturer: ALIXA RX

Manufacturer's Technical Representative: Brian Craft

Mailing Address: 6400 Pinecrest Drive, Suite 200, Plano, TX 75024

Telephone: 214-620-7854

Email: Brian.craft@alixarx.com

Product Information

Product Name: ADU and eMC

Product Type: Electronic Medication Dispensing Unit OPM-0518-13

Product Model Number: AP240ADU, AP300ADU, ECU100-R (eMC)

General Description: Automated Medication Dispenser with dual internal locks.

Medicine Cabinet with Refrigeration

Applicant Information

Applicant Company Name: Gregg Maedo + Associates, Inc.

Contact Person: Steve Miller

Mailing Address: 321 N Rampart Street, Suite 101, Orange, CA 92868

Telephone: 714-937-1985

Email: Steve@gmaarch.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: Steve Miller

Date: 10/17/2018

Title: Architect

Company Name: Gregg Maedo + Associates, Inc.

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





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

**Registered Design Professional Preparing Engineering Recommendations**

Company Name: Wheeler and Gray, Inc.

Name: Ken Agee California License Number: S3340

Mailing Address: 2040 S Santa Cruz Street, Suite 225, Anaheim, CA 92805

Telephone: 714-937-9100 Email: kagee@wheelerandgray.com

**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  FM 1950-16
- Other\* (Please Specify): \_\_\_\_\_

\*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  Calculations  Manufacturer's Catalog
- Other(s) (Please Specify): \_\_\_\_\_

**OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2016 & ALL PRE-2016 CODE BASED PROJECTS**

Signature:  Date: 6/21/2019

Print Name: Jeffrey Kikumoto

Title: SE

Condition of Approval (if applicable): \_\_\_\_\_

\_\_\_\_\_

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

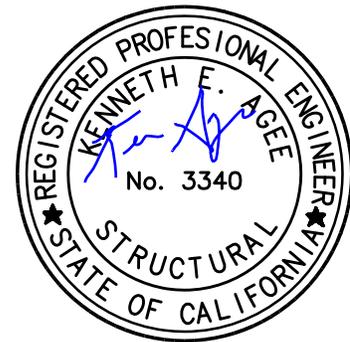
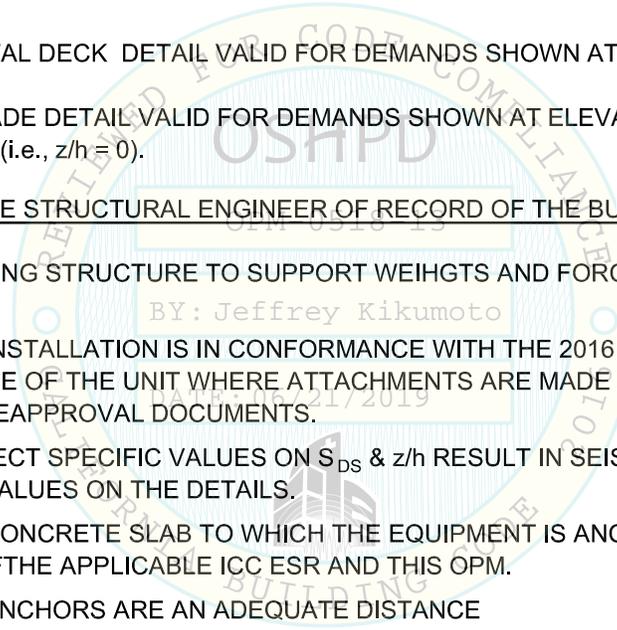


**MANUFACTURER:** alixaR<sub>x</sub>

**EQUIPMENT NAME:** AP240ADU, AP300ADU, ECU100-R

**GENERAL NOTES**

1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2016 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2016 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 2016 CALIFORNIA BUILDING CODE WHERE  $S_{DS}$  IS NOT GREATER THAN 2.10.
4. FORCES PER ASCE 7-10 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2, & 13.3-3.  
WHERE  $S_{DS}=0.90$ ,  $a_p=1.0$ ,  $I_p=1.5$ ,  $R_p=1.5$ ,  $z/h=0$  AT CONC. SLAB. SEE FOLLOWING SHEETS FOR  $\Omega_0$   
WHERE  $S_{DS}=1.50$ ,  $a_p=1.0$ ,  $I_p=1.5$ ,  $R_p=1.5$ ,  $z/h=0$  AT CONC. SLAB SEE FOLLOWING SHEETS FOR  $\Omega_0$   
WHERE  $S_{DS}=2.10$ ,  $a_p=1.0$ ,  $I_p=1.5$ ,  $R_p=1.5$ ,  $z/h=0$  AT CONC. SLAB &  $z/h \leq 0.5$  AT CONC. SLAB ON METAL DECK. SEE FOLLOWING SHEETS FOR  $\Omega_0$
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 WHERE  $z/h \leq 0.5$
8. CONCRETE SLAB ON GRADE DETAIL VALID FOR DEMANDS SHOWN AT 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 2016 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 ON  $S_{DS}$  &  $z/h$  RESULT IN SEISMIC FORCES ( $E_h$ ,  $E_v$ ) 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.
  - 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  $6h_{ef}$  FROM THIS UNIT'S ANCHORS.



 <b>WHEELER &amp; GRAY</b> 300 S. HARBOR BLVD. SUITE 1010 ANAHEIM, CA. 92805 (714) 937-9100 FAX (714) 937-9103	<b>ADU &amp; EMC SEISMIC SUPPORTS &amp; ANCHORAGE GENERAL NOTES</b>				
	<b>alixaR<sub>x</sub></b>		REVISIONS		
JOB#: <b>S18333</b>	FILE NAME: <b>S-100.DWG</b>	NO.	DATE	BY	DETAIL
DATE: <b>10/24/18</b>	DRAWN BY: <b>K. CHAVEZ</b>	<b>1</b>	<b>04/03/19</b>	<b>P.W.</b>	SHEET NO.
SCALE: <b>N.T.S.</b>	CHECKED: <b>C. ST. AMANT</b>	<b>2</b>			<b>1 OF 9</b>
		<b>3</b>			

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10. EXPANSION ANCHORS:

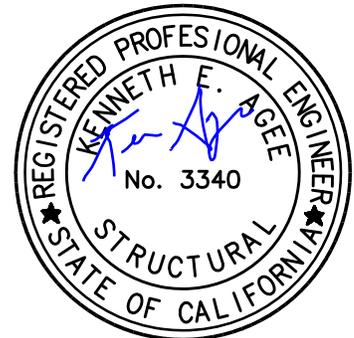
ATTACHMENT IS TO BE MADE WITH THE ANCHORS LISTED BELOW AND INSTALLED AS DESCRIBED IN THE CORRESPONDING ICC REPORT.

ANCHOR DIAM.	CONC. TYPE	MIN. f <sub>c</sub> (psi)	ANCHOR TYPE	ICC REPORT NO.	MIN. EMBED.	MIN. SPACING	MIN. EDGE DIST.	MIN. CONC. THK.	TORQUE TEST	DIRECT TENSION TEST
1/2"	SAND LIGHT WEIGHT	3000	HILTI KWIK BOLT TZ	ESR-1917	2"	6.75"	42"	SEE SHEET 8 OF 9	40 FT-LB	NA
1/2"	NORMAL WEIGHT	3000	HILTI KWIK BOLT TZ	ESR-1917	2"	8"	6"	4"	40 FT-LB	1605 LB
1/2"	NORMAL WEIGHT	3000	HILTI KWIK BOLT TZ	ESR-1917	3.25"	8"	6"	6"	40 FT-LB	3281 LB

- A. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 6" AWAY MINIMUM (i.e., CORNER).
- B. TESTING OF EXPANSION ANCHORS PER 2016 CBC, 1910A.5: TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULT 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. ACCEPTABLE 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.
- C. AVOID DAMAGING EXISTING STEEL REINFORCING IN CONCRETE SLAB WHEN INSTALLING CONCRETE EXPANSION ANCHORS.
- D. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER.

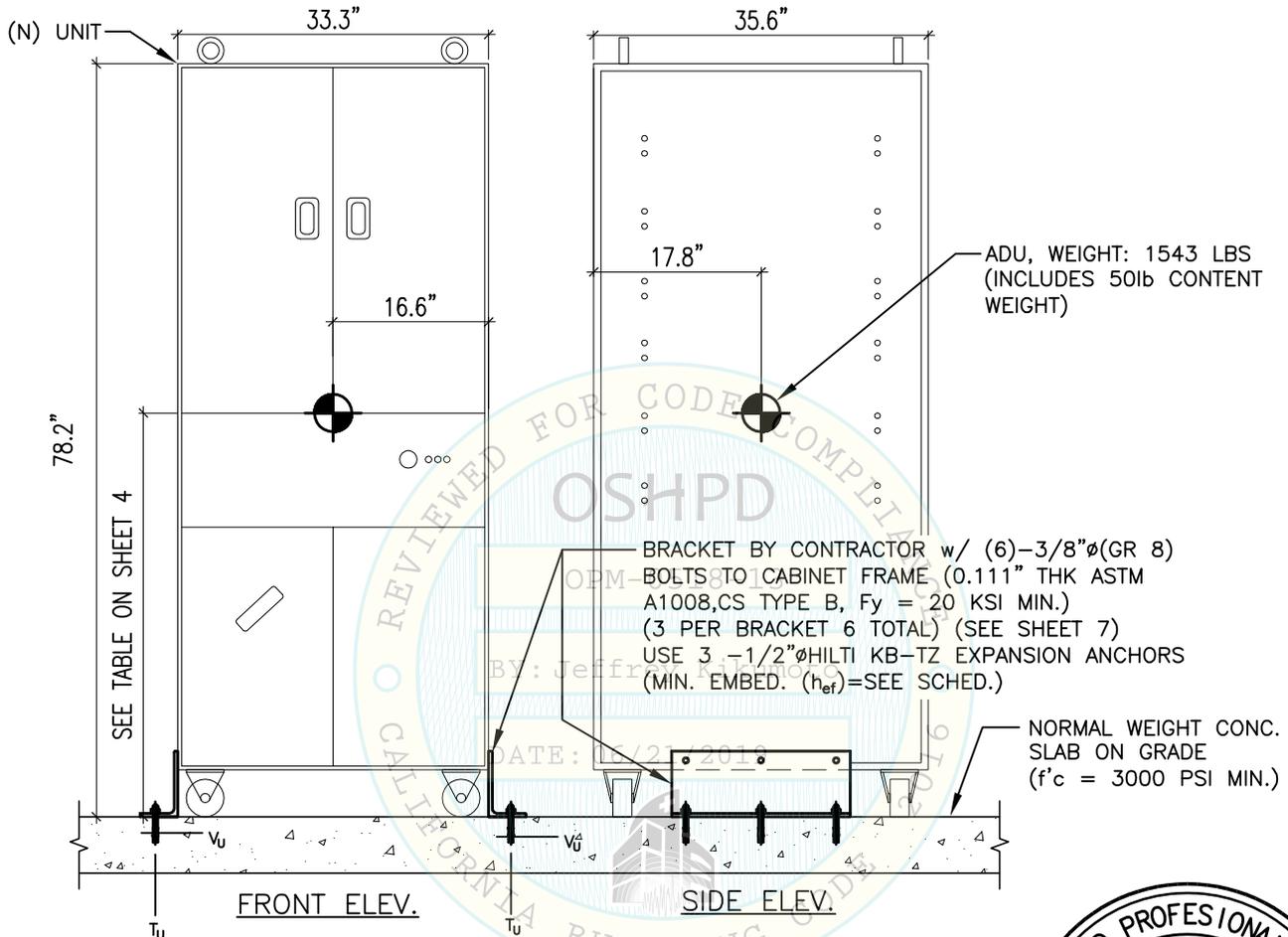
BOLTS THROUGH CONCRETE ON METAL DECK

- A. BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUT 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.



 <b>WHEELER &amp; GRAY</b> 300 S. HARBOR BLVD. SUITE 1010 ANAHEIM, CA. 92805 (714) 937-9100 FAX (714) 937-9103	<b>ADU &amp; EMC                  SEISMIC SUPPORTS &amp; ATTACHMENT                  GENERAL NOTES</b>	<b>alixar<sub>x</sub></b>			REVISIONS
	JOB#: <b>S18333</b> DATE: <b>10/24/18</b> SCALE: <b>N.T.S.</b>	FILE NAME: <b>Sheet 2.DWG</b> DRAWN BY: <b>K. CHAVEZ</b> CHECKED: <b>C. ST. AMANT</b>	NO. <b>1</b> <b>2</b> <b>3</b>	DATE <b>04/03/19</b>	BY <b>P.W.</b>

ANCHORS					
MAX S <sub>DS</sub>	TYPE	DIAM	EFF. EMBED	QTY	T <sub>SLAB</sub>
0.90	HILTI KB-TZ	1/2"	2"	6	4"
1.50	HILTI KB-TZ	1/2"	3.25"	6	6"
2.10	HILTI KB-TZ	1/2"	3.25"	6	6"



### ADU SUPPORTS & ATTACHMENT DETAIL



- FORCES ARE DETERMINED PER 2016 CALIFORNIA BUILDING CODE AND ASCE 7-10 STRENGTH DESIGN IS USED. ( $a_p=1.0$ ,  $l_p=1.5$ ,  $R_p=1.5$ ,  $\Omega_0=1.5$ ,  $z/h=0$ )
- CENTER OF GRAVITY(C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THESE CALCS ENCOMPASS ALL WEIGHTS UP TO THE MAX. WEIGHT SHOWN.
- 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.
- SEE GENERAL NOTES: SHEETS 1 & 2



**WHEELER & GRAY**  
300 S. HARBOR BLVD. SUITE 1010  
ANAHEIM, CA. 92805  
(714) 937-9100 FAX (714) 937-9103

## AP240ADU & AP300ADU SUPPORTS & ATTACHMENTS

**alixar<sub>x</sub>**

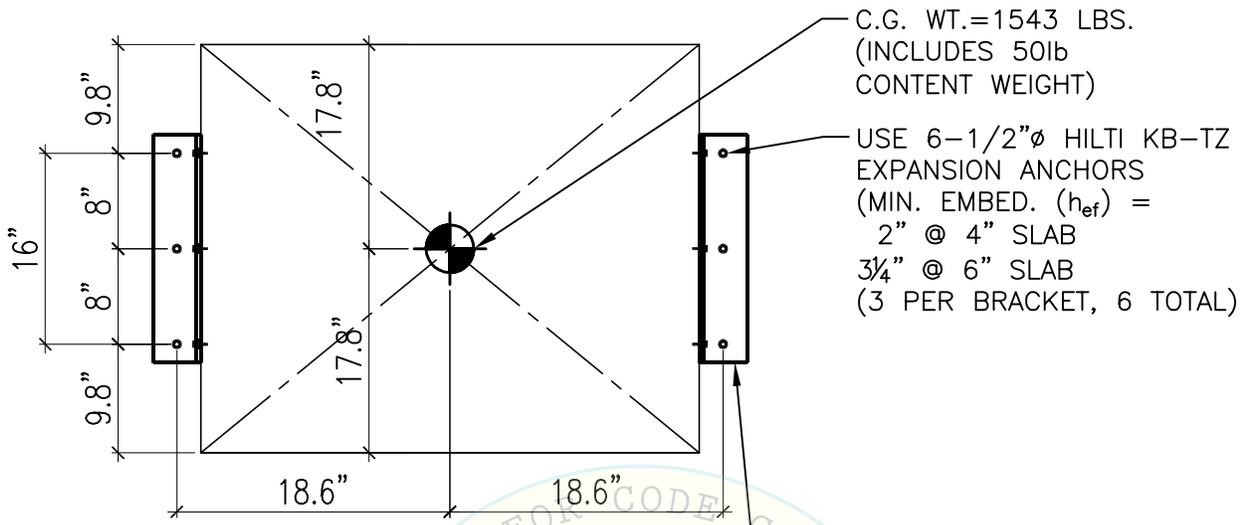
### REVISIONS

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<b>S18333</b>	<b>Sheet 3.DWG</b>	<b>1</b>	<b>04/03/19</b>	<b>P.W.</b>	<b>3 OF 9</b>
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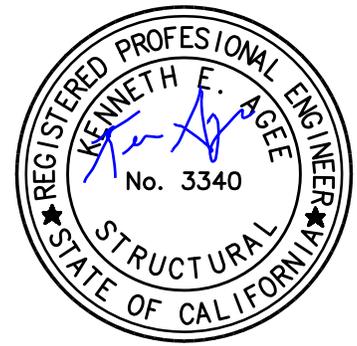
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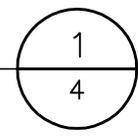
BRACKET BY CONTRACTOR  
 w/ 6-3/8"Ø (GR8) BOLTS TO CABINET FRAME  
 (0.111" THK ASTM A1008, CS TYPE B,  
 Fy = 20 KSI MIN.)  
 (3 PER BRACKET, 6 TOTAL)

S <sub>DS</sub>	UNIT	WEIGHT (LB)	HEIGHT (IN)	T <sub>u</sub> (lb/BOLT)	V <sub>u</sub> * (lb/BOLT)
2.10	AP240ADU	1543	37.5	2696	365
2.10	AP300ADU	1543	39	2696	365
1.50	AP240ADU	1543	37.5	1848	260
1.50	AP300ADU	1543	39	1848	260
0.90	AP240ADU	1543	37.5	1018	157
0.90	AP300ADU	1543	39	1018	157

\* Includes Ω<sub>0</sub>

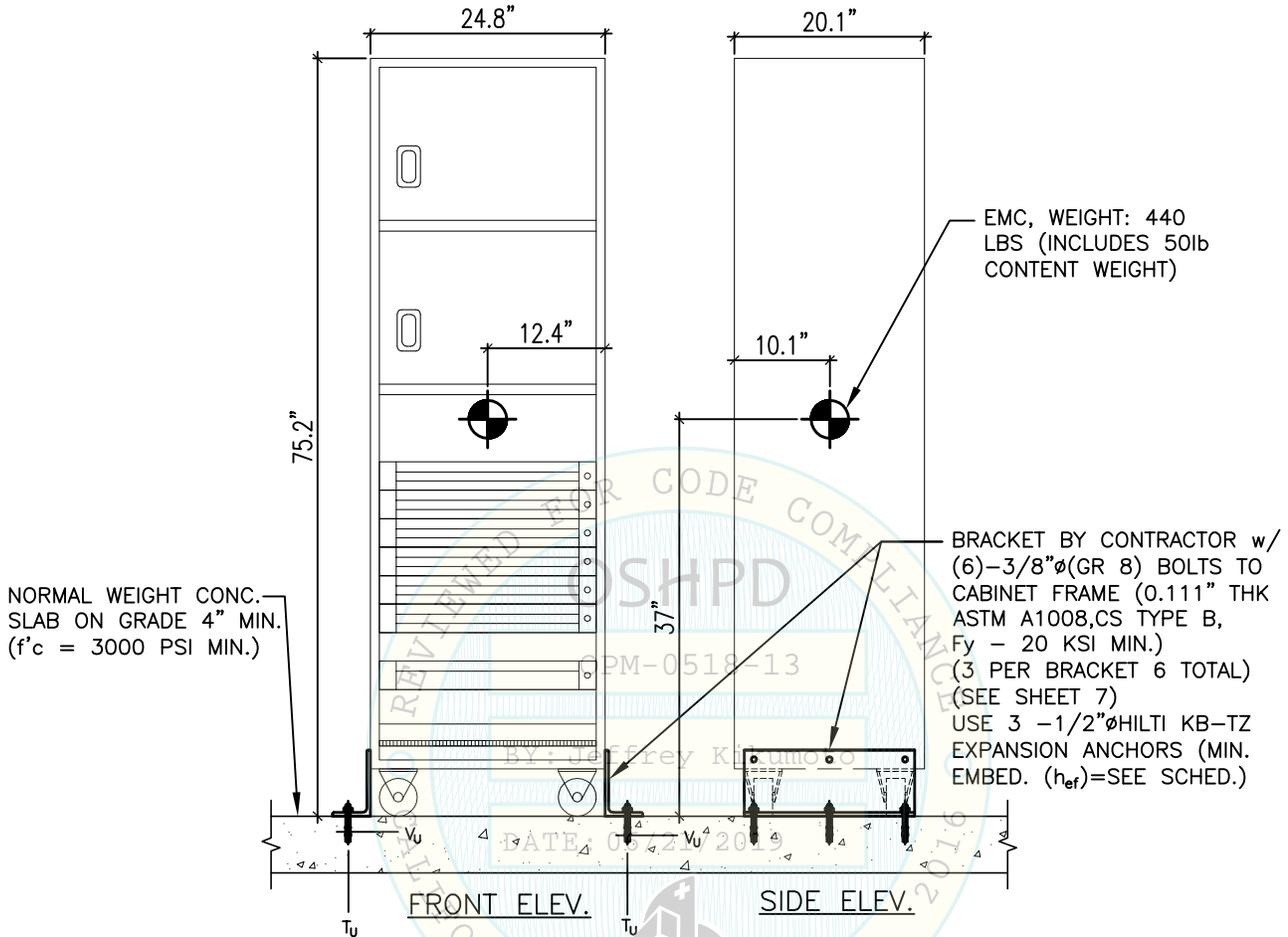


SLAB ON GRADE



<p><b>WHEELER &amp; GRAY</b>          300 S. HARBOR BLVD. SUITE 1010          ANAHEIM, CA. 92805          (714) 937-9100 FAX (714) 937-9103</p>	<p>ADU SUPPORTS &amp; ATTACHMENTS          SLAB ON GRADE          AP240ADU &amp; AP300ADU</p>																
	<p style="text-align: center; font-size: 2em;">alixar<sub>x</sub></p>																
<p>JOB#: <b>S18333</b>          DATE: <b>10/24/18</b>          SCALE: <b>N.T.S.</b></p>	<p>FILE NAME: <b>S-502.DWG</b>          DRAWN BY: <b>K. CHAVEZ</b>          CHECKED: <b>C. ST. AMANT</b></p>	<p style="text-align: center;">REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>DETAIL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>04/03/19</td> <td>P.W.</td> <td>SHEET NO.</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td rowspan="2" style="text-align: center; font-size: 2em;">4 OF 9</td> </tr> <tr> <td>3</td> <td></td> <td></td> </tr> </tbody> </table>	NO.	DATE	BY	DETAIL	1	04/03/19	P.W.	SHEET NO.	2			4 OF 9	3		
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ANCHORS					
MAX $S_{DS}$	TYPE	DIAM	EFF. EMBED	QTY	$T_{SLAB}$
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1.50	HILTI KB-TZ	1/2"	3.25"	6	6"
2.10	HILTI KB-TZ	1/2"	3.25"	6	6"



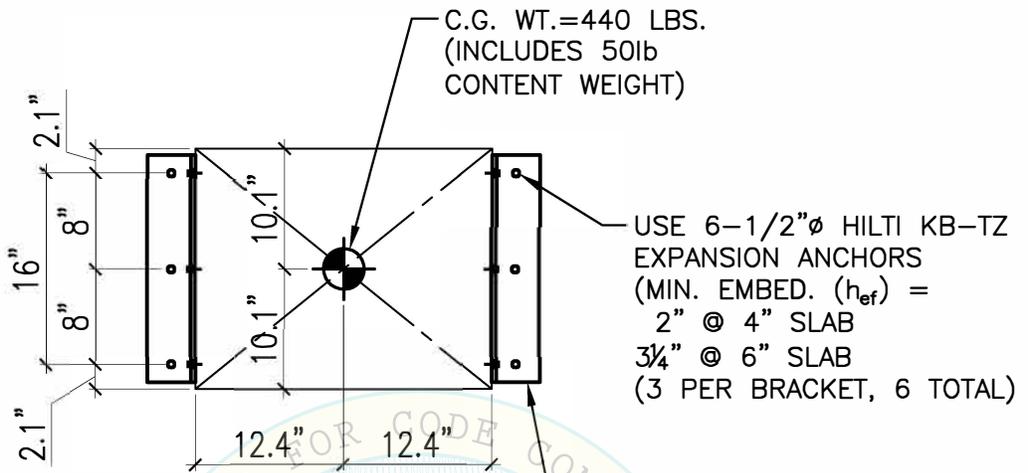
**EMC SUPPORTS & ATTACHMENTS DETAIL**

1  
5

- FORCES ARE DETERMINED PER 2016 CALIFORNIA BUILDING CODE AND ASCE 7-10 STRENGTH DESIGN IS USED. ( $a_p=1.0$ ,  $b_p=1.5$ ,  $R_p=1.5$ ,  $\Omega_0=1.5$ ,  $z/h=0$ )
- CENTER OF GRAVITY(C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THESE CALCS ENCOMPASS ALL WEIGHTS UP TO THE MAX. WEIGHT SHOWN.
- 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.
- SEE GENERAL NOTES: SHEETS 1 & 2



<p><b>WHEELER &amp; GRAY</b> 300 S. HARBOR BLVD. SUITE 1010 ANAHEIM, CA. 92805 (714) 937-9100 FAX (714) 937-9103</p>	<p><b>EMC SUPPORTS &amp; ATTACHMENTS</b> <b>ECU100-R</b></p>																			
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BRACKET BY CONTRACTOR, (SEE SHEET 7)  
w/ 6-3/8"Ø (GR8) BOLTS TO CABINET FRAME  
(0.111" THK ASTM A1008, CS TYPE B,  
Fy = 20 KSI MIN.)  
(3 PER BRACKET, 6 TOTAL)

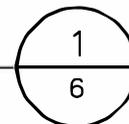
DATE: 06/21/2019

$S_{Ds}$	UNIT	WEIGHT (LB)	Y (IN)	$T_u^*$ (lb/BOLT)	$V_u^*$ (lb/BOLT)
2.10	ECU100-R	440	37	876	103
1.50	ECU100-R	440	37	516	74
0.90	ECU100-R	440	37	277	45

\* Includes  $\Omega_0$



SLAB ON GRADE



**WGH**  
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EMC SUPPORT & ATTACHMENTS  
SLAB ON GRADE  
ECU 100-R

**alixar<sub>x</sub>**

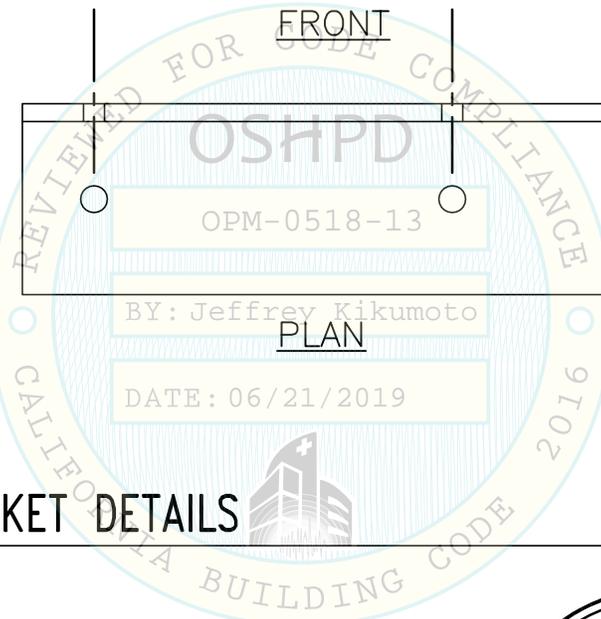
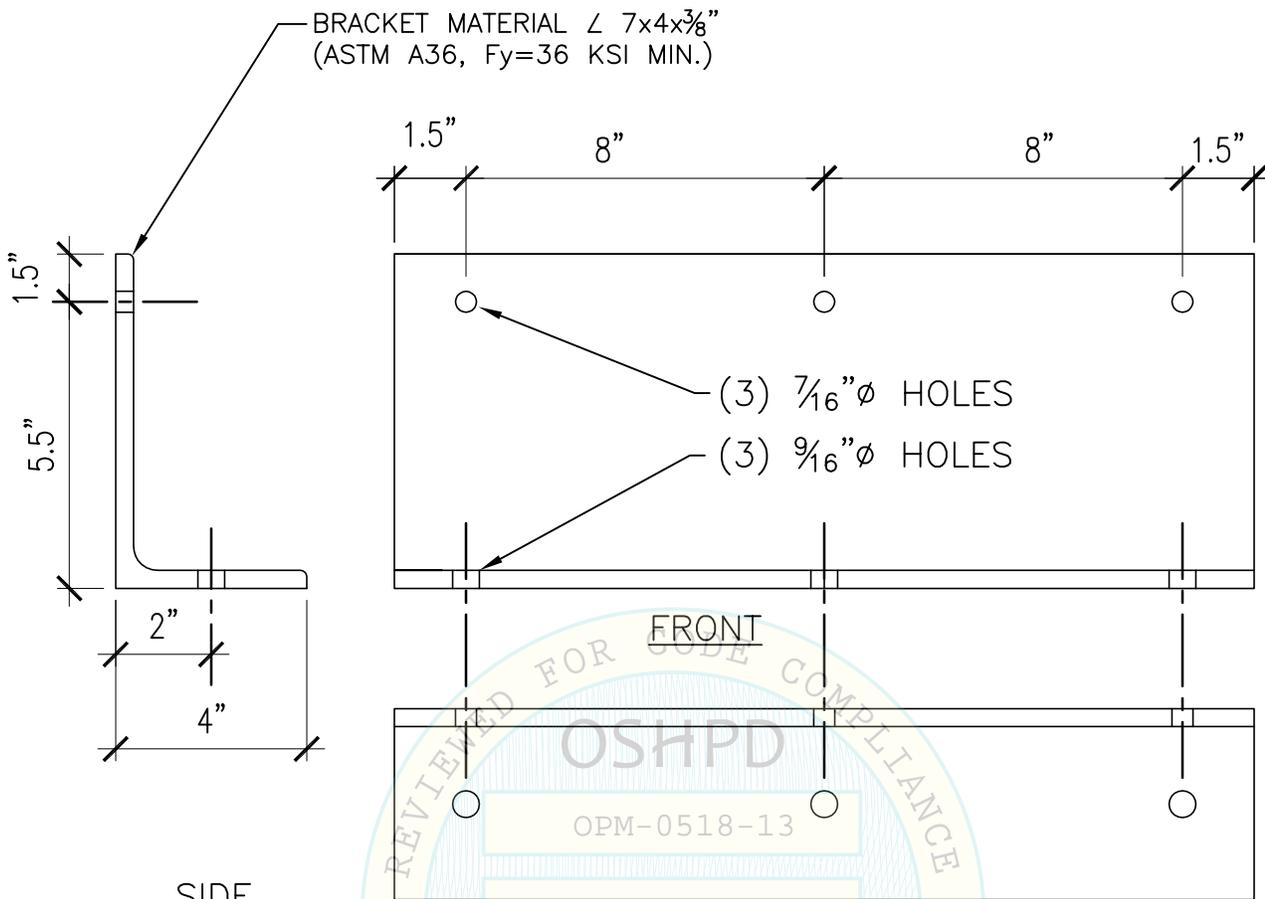
REVISIONS

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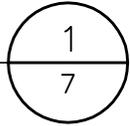
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BRACKET DETAILS



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**alixar<sub>x</sub>**

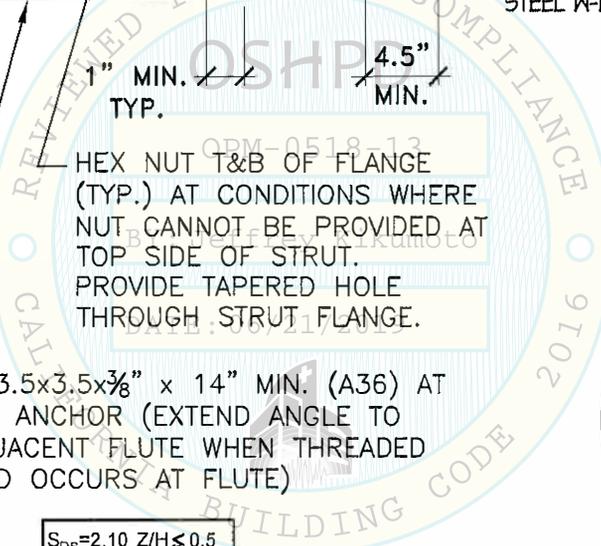
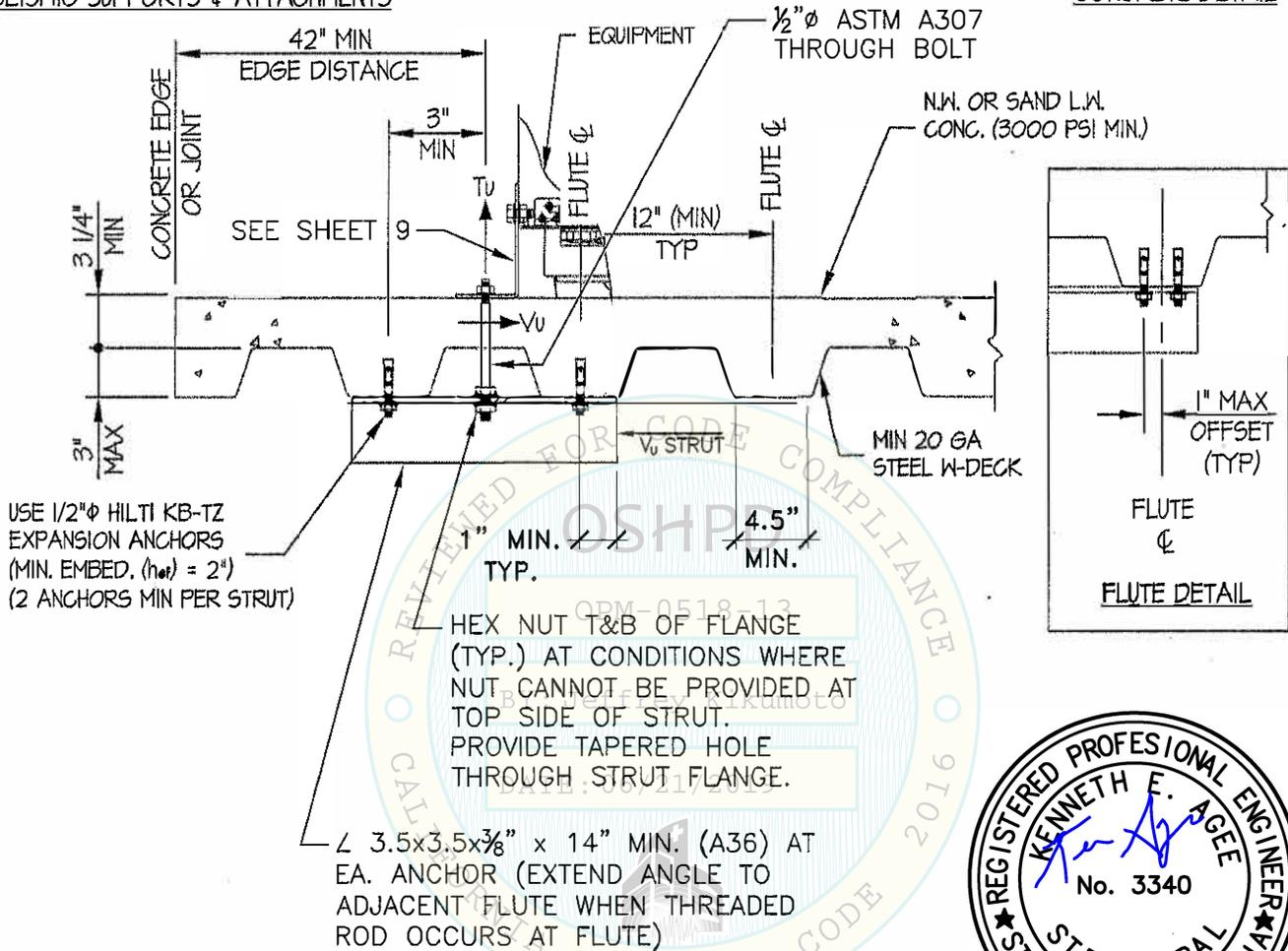
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ADU & EMC SUPPORT & ATTACHMENTS  
BRACKET DETAILS

NO.	DATE	BY	DETAIL
1	04/03/19	P.W.	SHEET NO.
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3			

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE DETAIL



USE 1/2"Ø HILTI KB-TZ EXPANSION ANCHORS (MIN. EMBED. (net) = 2") (2 ANCHORS MIN PER STRUT)

HEX NUT T&B OF FLANGE (TYP.) AT CONDITIONS WHERE NUT CANNOT BE PROVIDED AT TOP SIDE OF STRUT. PROVIDE TAPERED HOLE THROUGH STRUT FLANGE.

∟ 3.5x3.5x3/8" x 14" MIN. (A36) AT EA. ANCHOR (EXTEND ANGLE TO ADJACENT FLUTE WHEN THREADED ROD OCCURS AT FLUTE)

$S_{Ds} = 2.10$   $Z/H \leq 0.5$

UNIT	WEIGHT LB.	$\bar{Y}$ (IN.)	$T_U$ (lb/BOLT)	$V_U^*$ (lb/BOLT)
AP240ADU	1543	37.5	1612	486
AP300ADU	1543	39	1612	486
ECU100-R	440	37	645	139

\* INCLUDES  $\Omega_b$

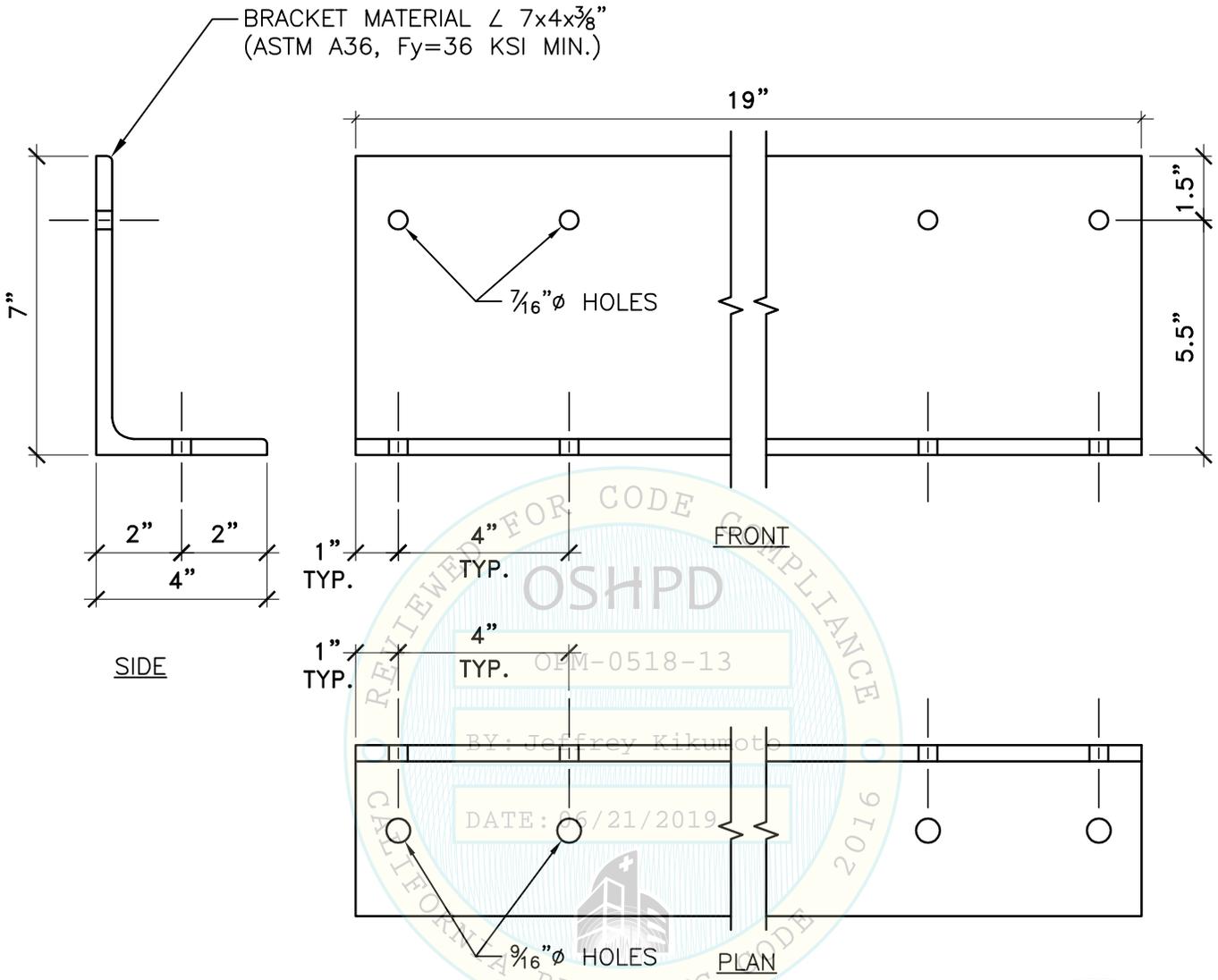
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ADU & EMC SUPPORTS & ATTACHMENTS  
STEEL DECK AND STRUT DETAIL

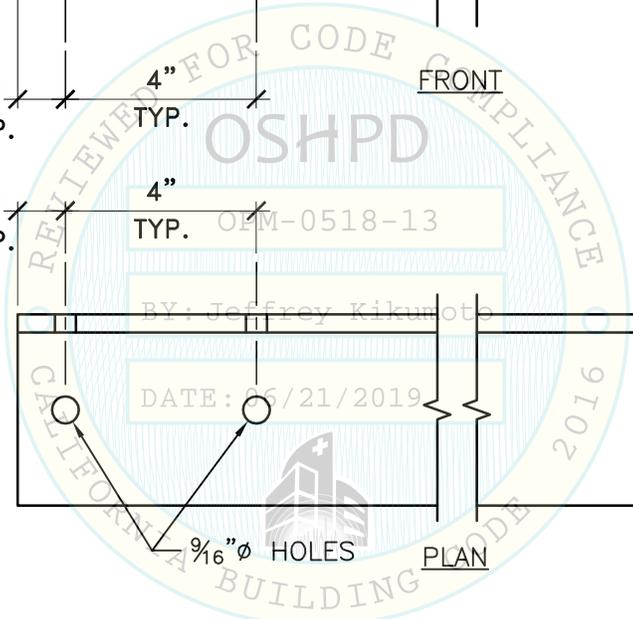
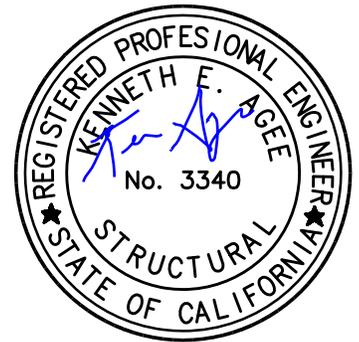
<b>alixarx</b>	REVISIONS			DETAIL
	NO.	DATE	BY	
JOB#: S18333	FILE NAME: Sheet 8.DWG	1		SHEET NO.
DATE: 04/03/19	DRAWN BY: P. WEST	2		8 OF 9
SCALE: N.T.S.	CHECKED: C. ST. AMANT	3		

SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAILS



NOTE:  
CENTER OF BRACKET TO ALIGN WITH CENTER OF UNIT.



**WGH**  
**WHEELER & GRAY**  
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ANAHEIM, CA. 92805  
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ADU & EMC SUPPORTS & ATTACHMENTS  
BRACKET DETAIL

<b>alixar<sub>x</sub></b>	REVISIONS			DETAIL
	NO.	DATE	BY	
JOB#: <b>S18333</b>	FILE NAME: <b>Sheet 9.DWG</b>	<b>1</b>		SHEET NO.
DATE:	DRAWN BY: <b>P. WEST</b>	<b>2</b>		<b>9 OF 9</b>
SCALE: 06/21/2019	CHECKED: <b>C. ST. AMANT</b>	<b>3</b>		