



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT  
FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY

APPLICATION #: OPM-0410-13

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: ☐ New ☒ Renewal ☐ Update to Pre-CBC 2013 OPA Number: \_\_\_\_\_

Manufacturer Information

Manufacturer: PREMIER MOUNTS

Manufacturer's Technical Representative: Tiffany Dozier

Mailing Address: 2620 Palisades Drive, Corona, CA. 92882

Telephone: On File

Email: On File

Product Information

Product Name: LMV, LMVS, LMVP and LMVSP Wall Mounts

Product Type: Other mechanical and electrical components

Product Model Number: LMV, LMVS, LMVP and LMVSP

General Description: Wall Mount for Video Wall Monitors

Applicant Information

Applicant Company Name: EASE Co.

Contact Person: Jonathan Roberson, S.E.

Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA. 91709

Telephone: (909) 606-7622

Email: J.Roberson@EASECo.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: \_\_\_\_\_

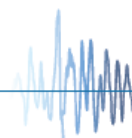
Date: 5/11/18

Title: Principal Engineer

Company Name: EASE Co.

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

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY  
OSH-FD-700 (REV 12/16/15)



OSHPD

"Equitable Healthcare Accessibility for California"

Page 1 of 2



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

### Registered Design Professional Preparing Engineering Recommendations

Company Name: EASE Co.

Name: Jonathan Roberson, S.E. California License Number: S4197

Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA. 91709

Telephone: 909-606-7622 Email: [J.Roberson@EASECo.com](mailto:J.Roberson@EASECo.com)

### OSHDP 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 bracing, test criteria other than those adopted in the CBSC 2016 may be used when approved by OSHDP 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 – OSHDP APPROVAL VALID FOR CBC 2016 & ALL PRE-2016 CODE BASED PROJECTS

Signature:  Date: 4/17/2019

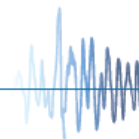
Print Name: Jeffrey Kikumoto

Title: SE

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

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

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY  
OSH-FD-700 (REV 12/16/15)



**OSHDP**

"Equitable Healthcare Accessibility for California"

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**EQUIPMENT ANCHORAGE  
& SEISMIC ENGINEERING**

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-0410-13**

**THIS PREAPPROVAL CONFORMS TO THE 2016 CALIFORNIA BUILDING CODE**

MANUFACTURER: **PREMIER MOUNTS**  
EQUIPMENT NAME: **LMV, LMVS, LMVP AND LMVSP WALL MOUNTS**

Sheet: 1 of 14

Date: 4/16/19

**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 2.20.
4. FORCES PER ASCE 7-10 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3,  
WHERE  $S_{ds} = 2.20$ ,  $a_p = 1.0$ ,  $I_p = 1.5$ ,  $R_p = 1.5$ ,  $z/h \leq 1$  AT CONCRETE WALL,  $\Omega_e = 1.5$
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. SHEET METAL SCREWS SHALL BE TEKS SCREWS BY ITW-BUILDEX (ICC ESR-1976).
8. WOOD SCREWS GKR-RSS PER ICC-ES ESR-2442.
9. CONCRETE WALL VALID FOR DEMANDS SHOWN AT ANY ELEVATION. (i.e.  $z/h \leq 1$ )
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 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 OF  $S_{ds}$  &  $z/h$  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 (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  $6h_{ef}$  FROM THIS UNIT'S ANCHORS.



## PREMIER MOUNTS

LMV, LMVS, LMVP AND LMVSP  
WALL MOUNTS

DES. J. ROBERSON

JOB NO. 11-1703

DATE 4/16/19

SHEET

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OF 14 SHEETS

11. SCREW 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
1/4"	Normal Weight	3000	Hilti Kwik HUS	ESR-3027	1.92"	3.5"	12"	6"	N/A	779 lb

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 12" AWAY MINIMUM (i.e. - CORNER). SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE EDGE DISTANCES.

- C. TESTING OF CONCRETE SCREW ANCHORS PER 2016 CBC, 1910A.5: TENSION TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO OSHPD

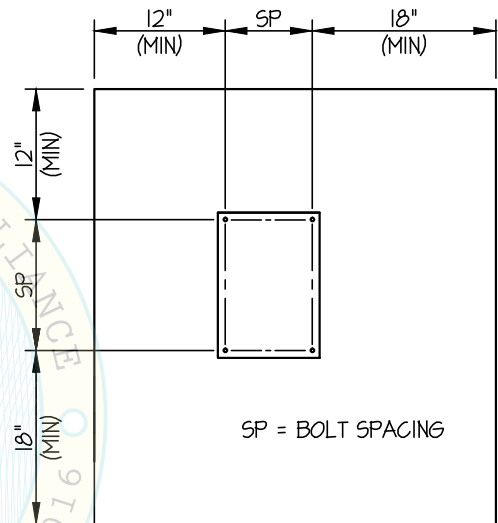
- (i) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, DIRECT PULL TENSION TEST AT LEAST 50% OF THE ANCHORS.

- (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.

- (iii) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.

- D. AVOID DAMAGING EXISTING STEEL REINFORCING IN CONCRETE WALL WHEN INSTALLING CONCRETE SCREW ANCHORS



TYPICAL CONCRETE EDGE DETAIL



## PREMIER MOUNTS

### LMV, LMVS, LMVP AND LMVSP WALL MOUNTS

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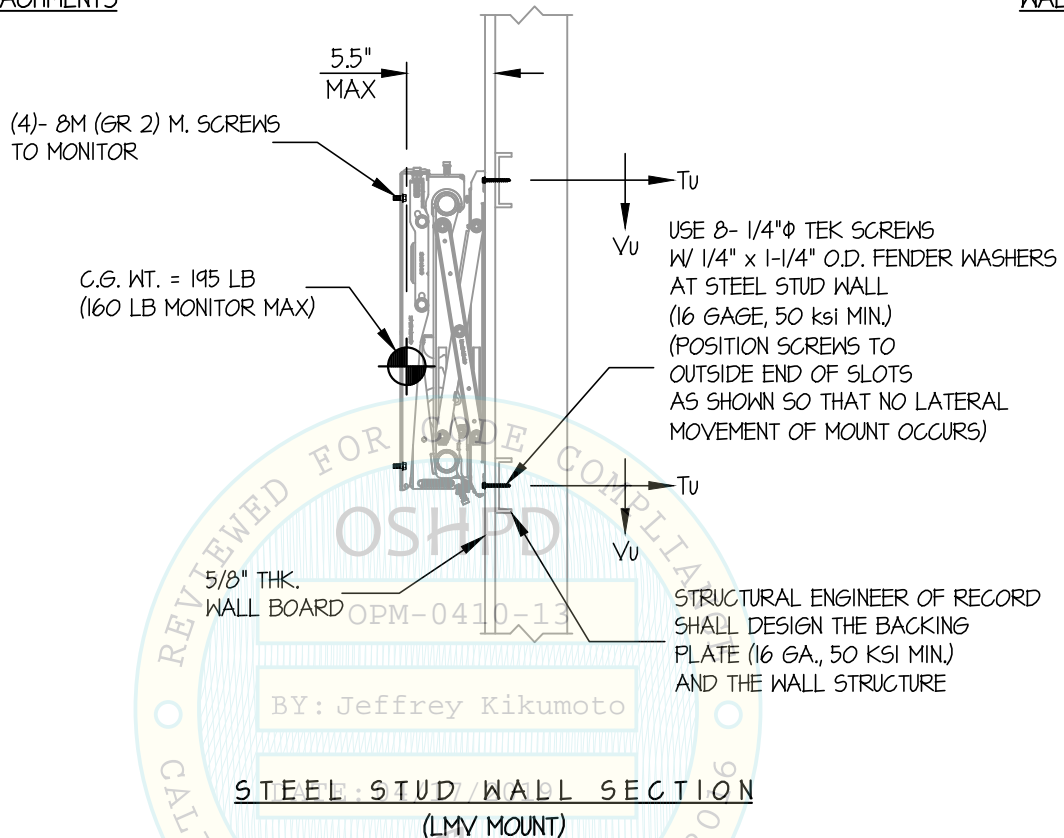
SHEET

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OF 14 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED



#### NOTES:

- FORCES ARE DETERMINED PER 2016 CALIFORNIA BUILDING CODE AND ASCE 7-10

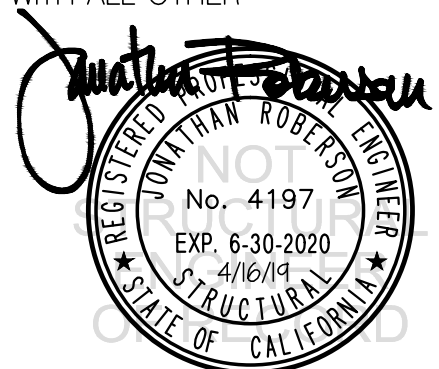
STRENGTH DESIGN IS USED. ( $S_Ds = 2.20$ ;  $a_p = 1.0$ ;  $I_p = 1.5$ ;  $R_p = 1.5$ ;  $\Omega_o = 1.5$ ;  $z/h \leq 1$ )

HORIZONTAL FORCE ( $E_h$ ) =  $2.64 W_p$

HORIZONTAL FORCE ( $E_{mh}$ ) =  $3.96 W_p$  (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE ( $E_v$ ) =  $0.44 W_p$

- CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM 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: SHEET 1 AND 2





### PREMIER MOUNTS

### LMV, LMVS, LMVP AND LMVSP WALL MOUNTS

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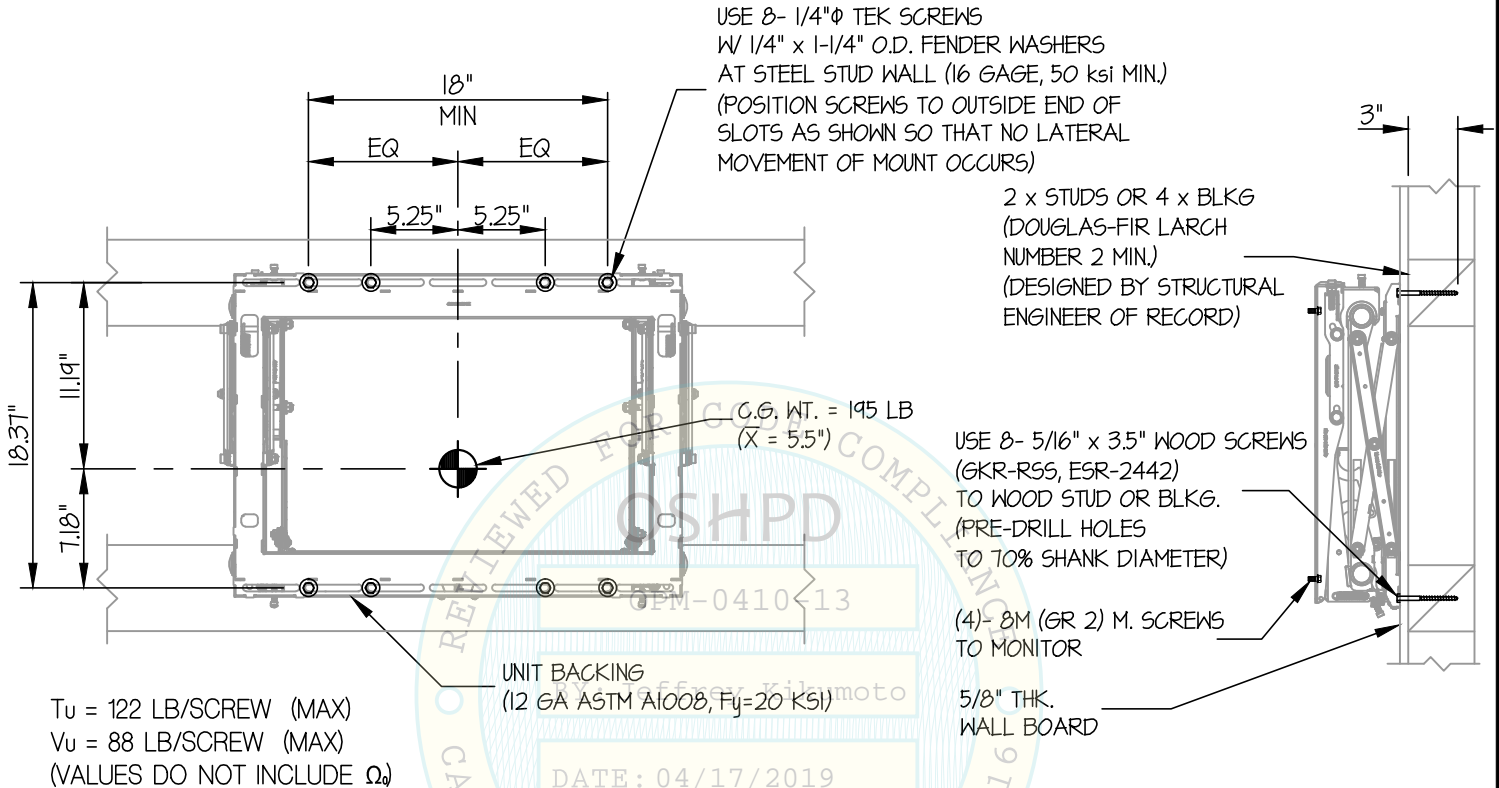
SHEET

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OF 14 SHEETS

#### SEISMIC SUPPORTS & ATTACHMENTS

#### WALL MOUNTED



ELEVATION AT STEEL STUD WALL  
(LMV MOUNT)

WOOD STUD WALL SECTION



## PREMIER MOUNTS

### LMV, LMVS, LMVP AND LMVSP WALL MOUNTS

DES. **J. ROBERSON**

JOB NO. **11-1703**

DATE **4/16/19**

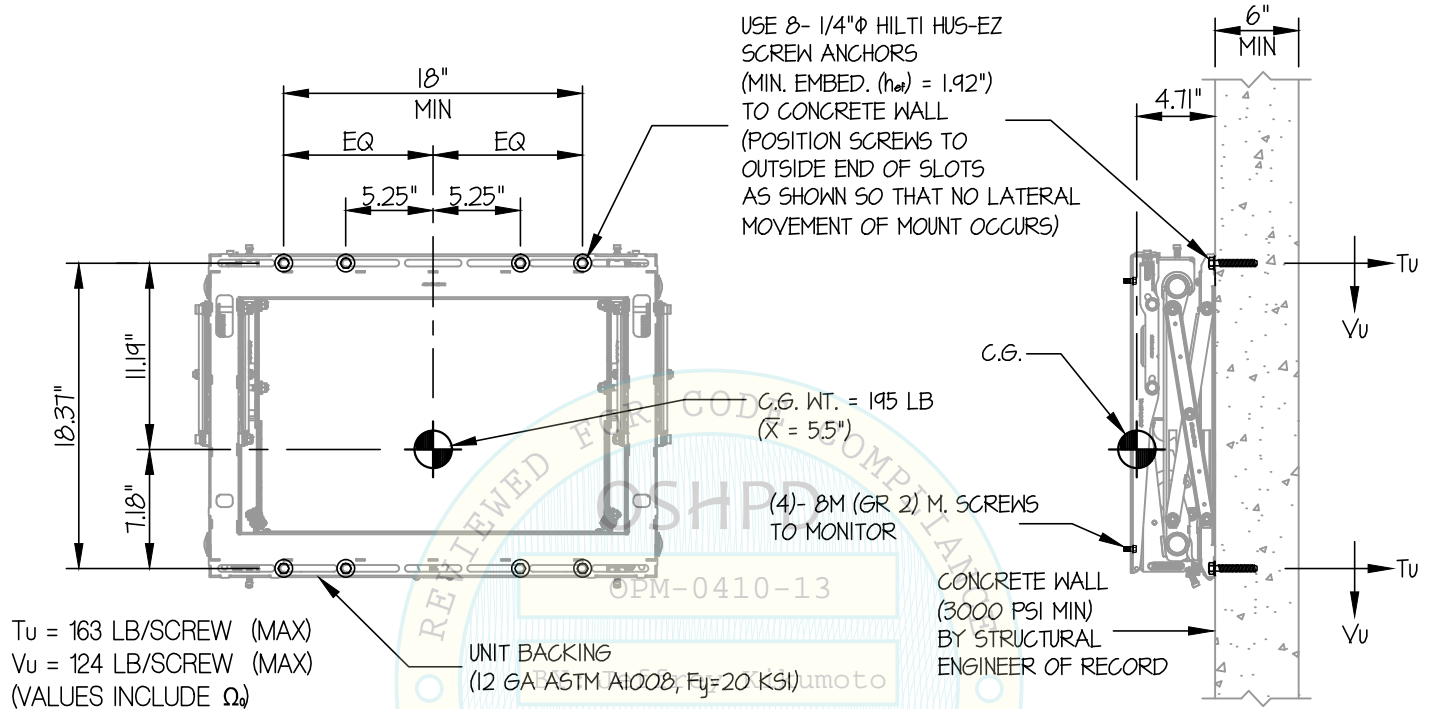
SHEET

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OF **14** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED



ELEVATION AT CONCRETE WALL  
(LMV MOUNT)

CONCRETE WALL SECTION



## PREMIER MOUNTS

LMV, LMVS, LMVP AND LMVSP  
WALL MOUNTS

DES. J. ROBERSON

JOB NO. 11-1703

DATE 4/16/19

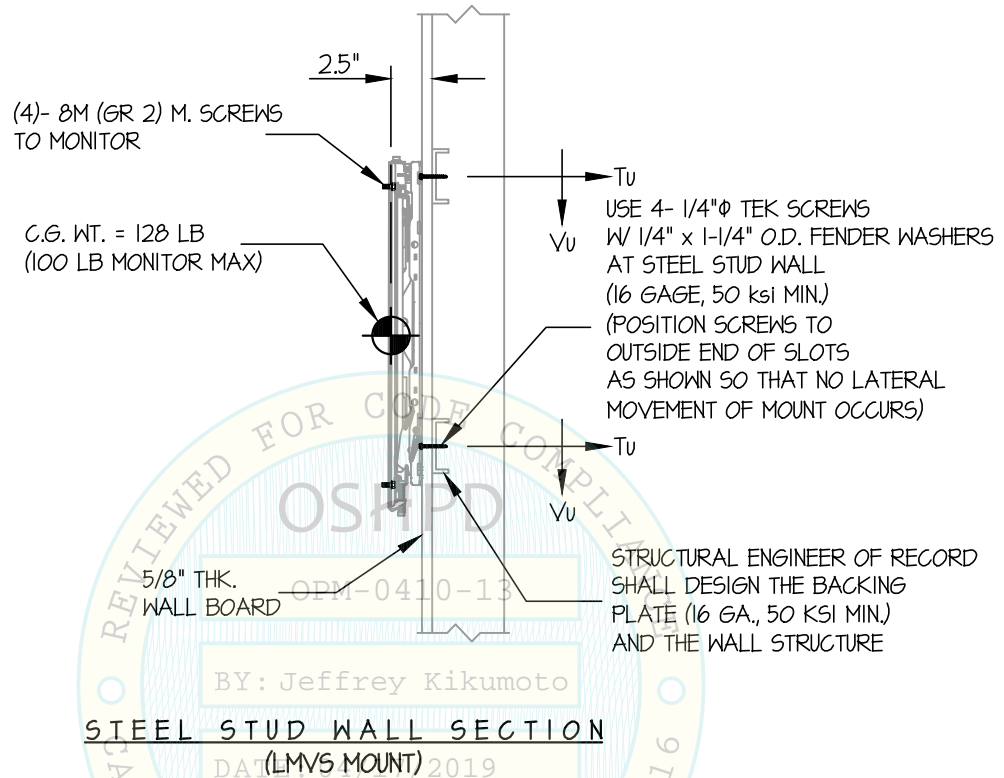
SHEET

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OF 14 SHEETS

SEISMIC SUPPORTS &amp; ATTACHMENTS

WALL MOUNTED



## NOTES:

- FORCES ARE DETERMINED PER 2016 CALIFORNIA BUILDING CODE AND ASCE 7-10

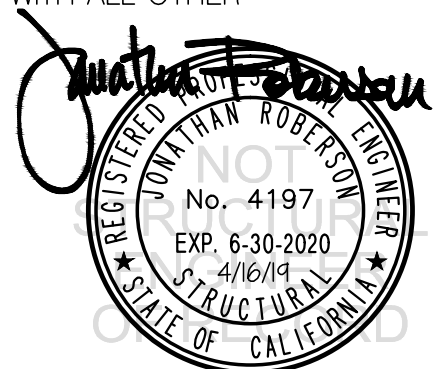
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HORIZONTAL FORCE ( $E_h$ ) =  $2.64 W_p$

HORIZONTAL FORCE ( $E_{mh}$ ) =  $3.96 W_p$  (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE ( $E_v$ ) =  $0.44 W_p$

- CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM 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: SHEET 1 AND 2





### PREMIER MOUNTS

### LMV, LMVS, LMVP AND LMVSP WALL MOUNTS

DES. J. ROBERSON

JOB NO. 11-1703

DATE 4/16/19

SHEET

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OF 14 SHEETS

#### SEISMIC SUPPORTS & ATTACHMENTS

#### WALL MOUNTED

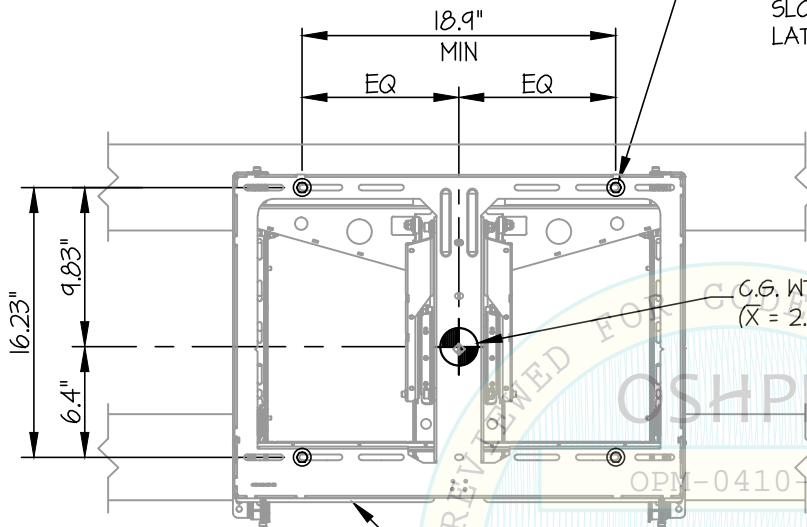
USE 4- 1/4"Ø TEK SCREWS  
W/ 1/4" x 1-1/4" O.D. FENDER WASHERS  
AT STEEL STUD WALL  
(16 GAGE, 50 ksi MIN.)  
(POSITION SCREWS TO OUTSIDE END OF  
SLOTS AS SHOWN SO THAT NO  
LATERAL MOVEMENT OF MOUNT OCCUR

2 x STUDS OR 4 x BLKG  
(DOUGLAS-FIR LARCH  
NUMBER 2 MIN.)  
(DESIGNED BY STRUCTURAL  
ENGINEER OF RECORD)

USE 8- 5/16" x 3.5" WOOD SCREWS  
(GKR-R55, ESR-2442)  
TO WOOD STUD OR BLKG.  
(PRE-DRILL HOLES  
TO 70% SHANK DIAMETER)

(4)- 8M (GR 2) M. SCREWS  
TO MONITOR

5/8" THK.  
WALL BOARD



$T_u = 128 \text{ LB/SCREW (MAX)}$   
 $V_u = 115 \text{ LB/SCREW (MAX)}$   
(VALUES DO NOT INCLUDE  $\Omega$ )

UNIT BACKING  
(12 GA ASTM A1008,  $F_y = 20 \text{ KSI}$ )

DATE: 04/17/2019

ELEVATION AT STEEL STUD WALL  
(LMVS MOUNT)

WOOD STUD WALL SECTION



### PREMIER MOUNTS

### LMV, LMVS, LMVP AND LMVSP WALL MOUNTS

DES. J. ROBERSON

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DATE 4/16/19

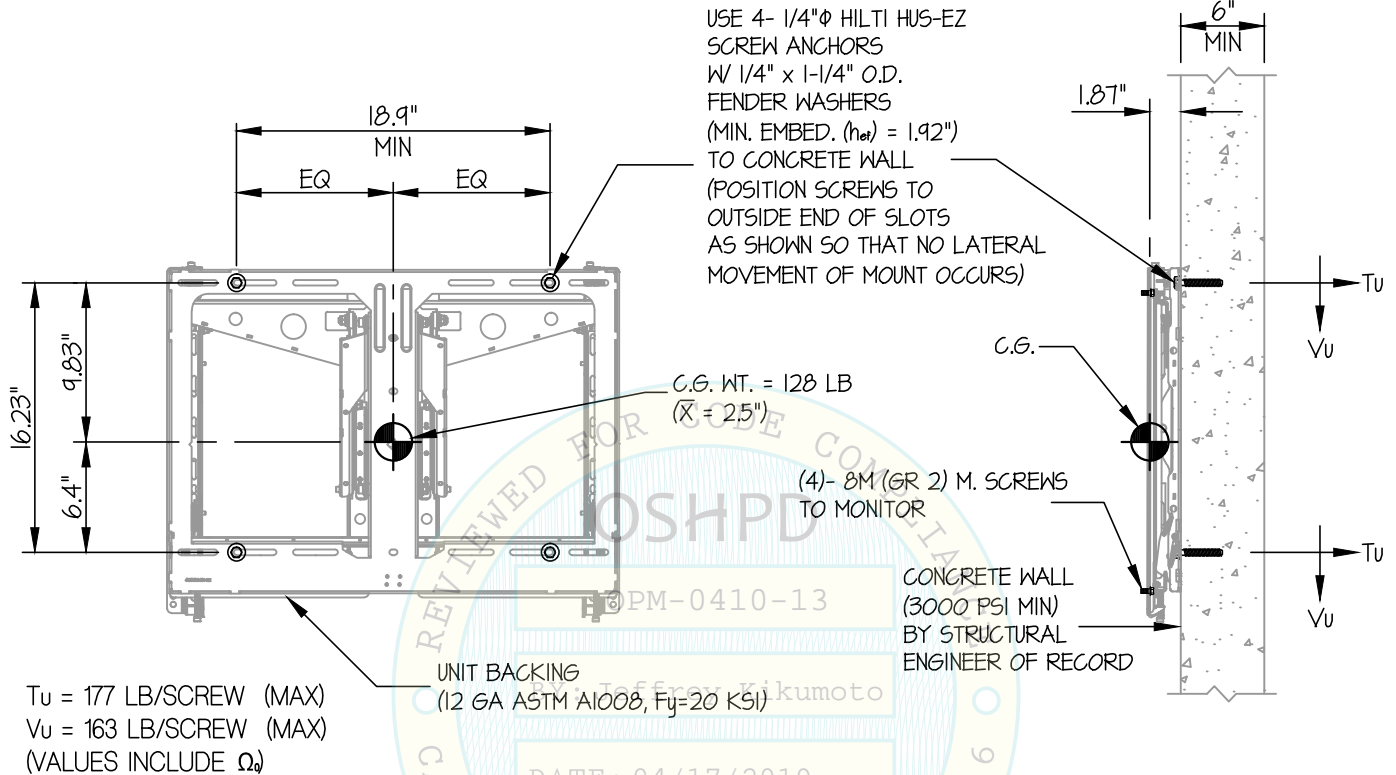
SHEET

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OF 14 SHEETS

#### SEISMIC SUPPORTS & ATTACHMENTS

#### WALL MOUNTED



ELEVATION AT CONCRETE WALL  
(LMVS MOUNT)

CONCRETE WALL SECTION



## PREMIER MOUNTS

LMV, LMVS, LMVP AND LMVSP  
WALL MOUNTS

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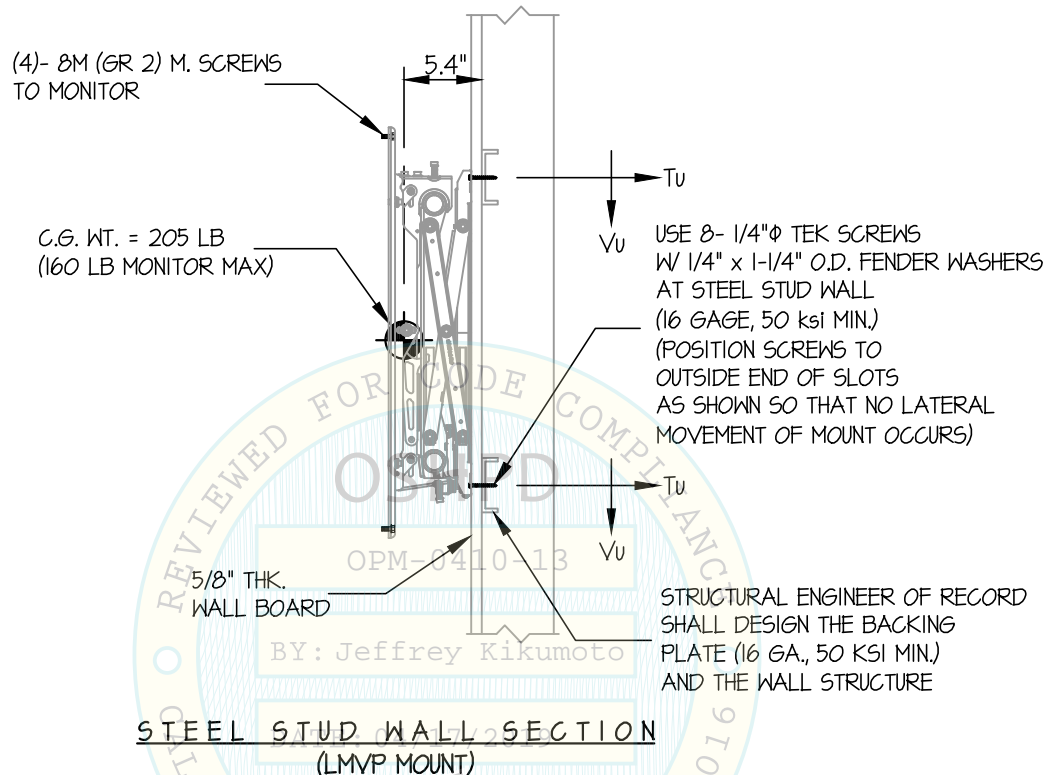
SHEET

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OF 14 SHEETS

SEISMIC SUPPORTS &amp; ATTACHMENTS

WALL MOUNTED



## NOTES:

- FORCES ARE DETERMINED PER 2016 CALIFORNIA BUILDING CODE AND ASCE 7-10

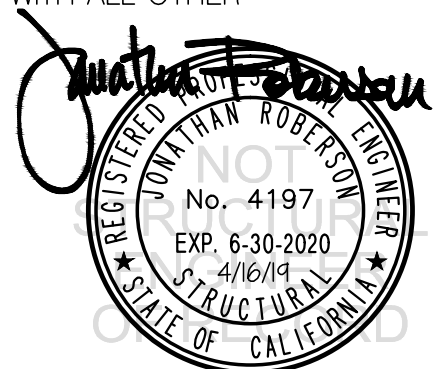
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HORIZONTAL FORCE ( $E_h$ ) =  $2.64 W_p$

HORIZONTAL FORCE ( $E_{mh}$ ) =  $3.96 W_p$  (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE ( $E_v$ ) =  $0.44 W_p$

- CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THIS PREAPPROVAL ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM 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: SHEET 1 AND 2



### PREMIER MOUNTS

### LMV, LMVS, LMVP AND LMVSP WALL MOUNTS

DES. J. ROBERSON

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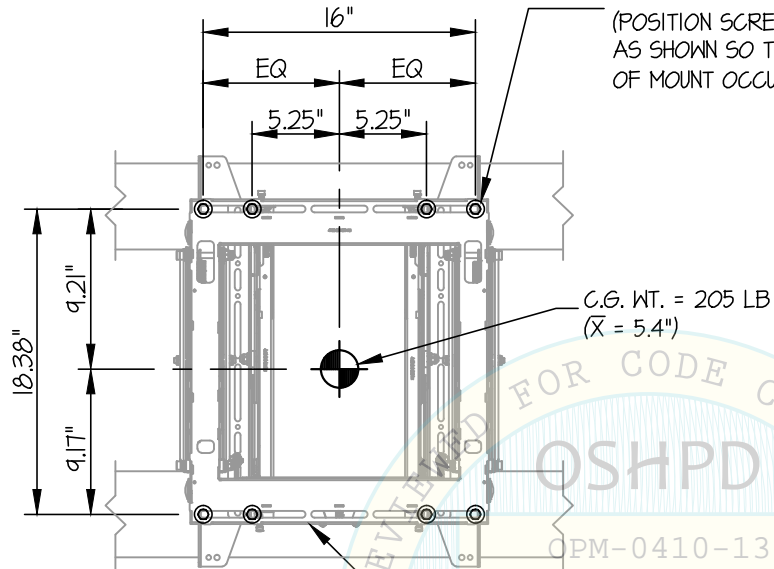
SHEET

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OF 14 SHEETS

#### SEISMIC SUPPORTS & ATTACHMENTS

#### WALL MOUNTED



$T_u = 110 \text{ LB/SCREW (MAX)}$   
 $V_u = 80 \text{ LB/SCREW (MAX)}$   
 (VALUES DO NOT INCLUDE  $\Omega_u$ )

ELEVATION AT STEEL STUD WALL  
 (LMVP MOUNT)

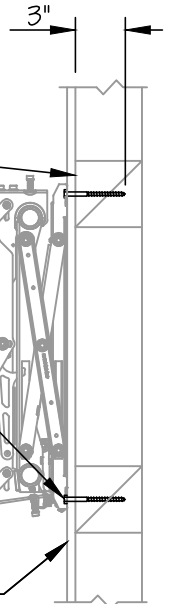
USE 8- 1/4"  $\phi$  TEK SCREWS  
 W/ 1/4" x 1-1/4" O.D. FENDER WASHERS  
 AT STEEL STUD WALL (16 GAGE, 50 KSI MIN.)  
 (POSITION SCREWS TO OUTSIDE END OF SLOTS  
 AS SHOWN SO THAT NO LATERAL MOVEMENT  
 OF MOUNT OCCURS)

2 x STUDS OR 4 x BLKG  
 (DOUGLAS-FIR LARCH  
 NUMBER 2 MIN.)  
 (DESIGNED BY STRUCTURAL  
 ENGINEER OF RECORD)

USE 8- 5/16" x 3.5" WOOD SCREWS  
 (GKR-R55, ESR-2442)  
 TO WOOD STUD OR BLKG.  
 (PRE-DRILL HOLES  
 TO 70% SHANK DIAMETER)

(4)- 8M (GR 2) M. SCREWS  
 TO MONITOR

5/8" THK.  
 WALL BOARD



WOOD STUD WALL SECTION



## PREMIER MOUNTS

### LMV, LMVS, LMVP AND LMVSP WALL MOUNTS

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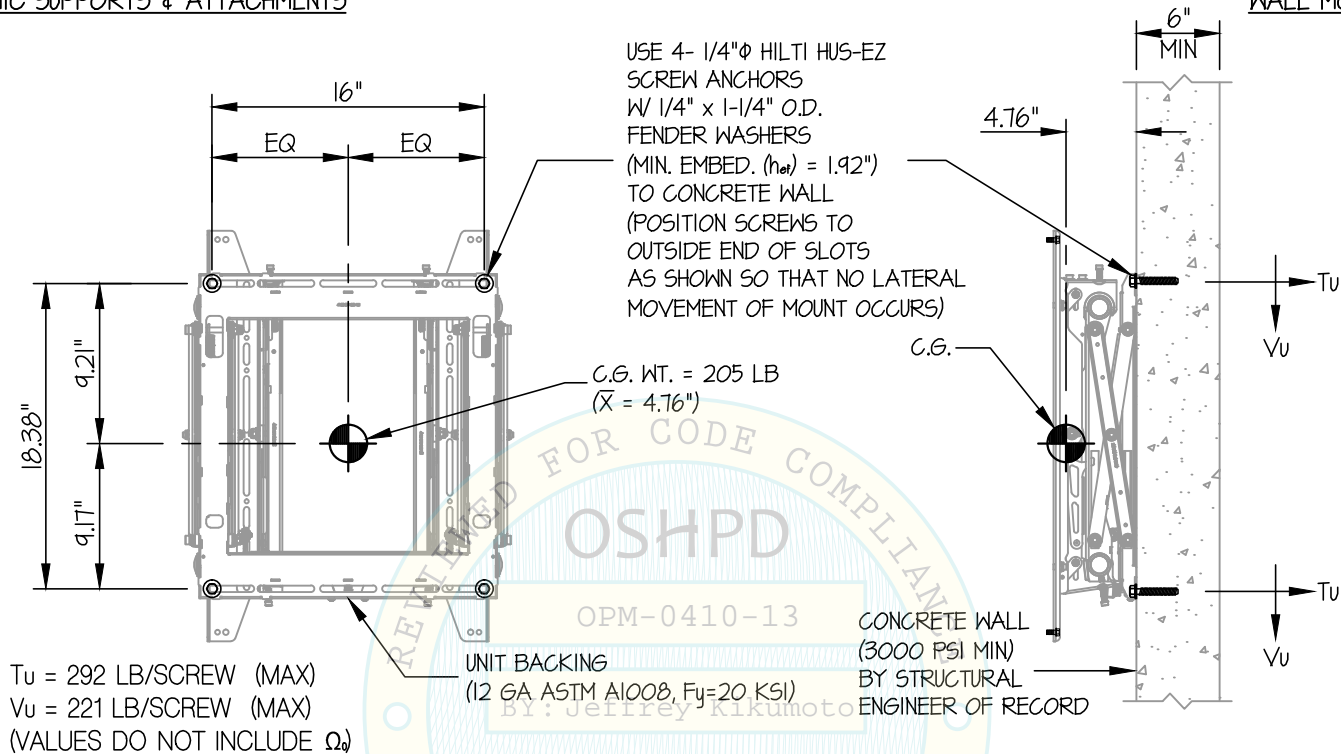
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OF **14** SHEETS

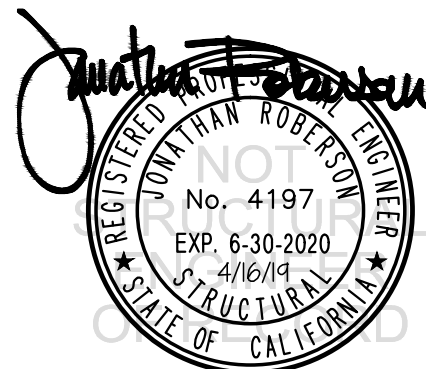
#### SEISMIC SUPPORTS & ATTACHMENTS

#### WALL MOUNTED



ELEVATION AT STEEL STUD WALL  
(LMVP MOUNT)

CONCRETE WALL SECTION





## PREMIER MOUNTS

LMV, LMVS, LMVP AND LMVSP  
WALL MOUNTS

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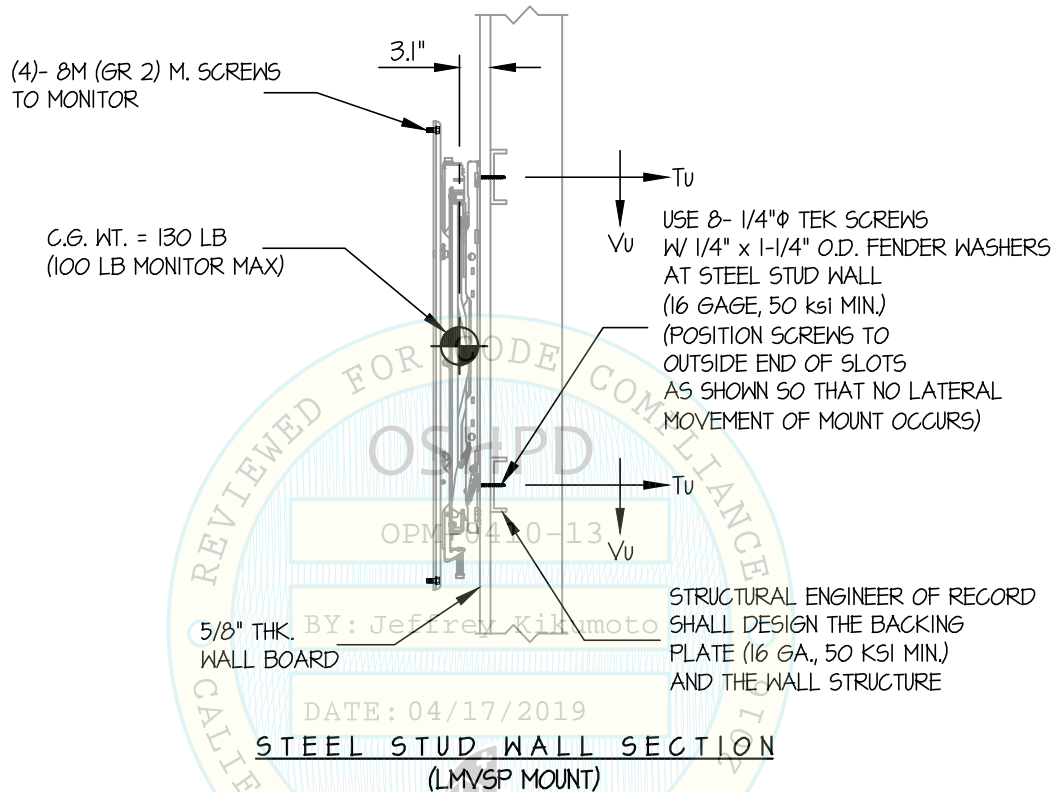
SHEET

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OF 14 SHEETS

SEISMIC SUPPORTS &amp; ATTACHMENTS

WALL MOUNTED



## NOTES:

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STRENGTH DESIGN IS USED. ( $S_{ds} = 2.20$ ,  $a_p = 1.0$ ,  $I_p = 1.5$ ,  $R_p = 1.5$ ,  $\Omega_o = 1.5$ ,  $z/h \leq 1$ )

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VERTICAL FORCE ( $E_v$ ) =  $0.44 W_p$

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- SEE GENERAL NOTES: SHEET 1 AND 2



## PREMIER MOUNTS

### LMV, LMVS, LMVP AND LMVSP WALL MOUNTS

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DATE 4/16/19

SHEET

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OF 14 SHEETS

#### SEISMIC SUPPORTS & ATTACHMENTS

#### WALL MOUNTED

USE 8- 1/4"Ø TEK SCREWS  
W/ 1/4" x 1-1/4" O.D. FENDER WASHERS  
AT STEEL STUD WALL (16 GAGE, 50 KSI MIN.)  
(POSITION SCREWS TO OUTSIDE END OF SLOTS  
AS SHOWN SO THAT NO LATERAL  
MOVEMENT OF MOUNT OCCURS)

2 x STUDS OR 4 x BLKG  
(DOUGLAS-FIR LARCH  
NUMBER 2 MIN.)  
(DESIGNED BY STRUCTURAL  
ENGINEER OF RECORD)

USE 8- 5/16" x 3.5" WOOD SCREWS  
(GKR-RSS, ESR-2442)  
TO WOOD STUD OR BLKG.  
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TO 70% SHANK DIAMETER)

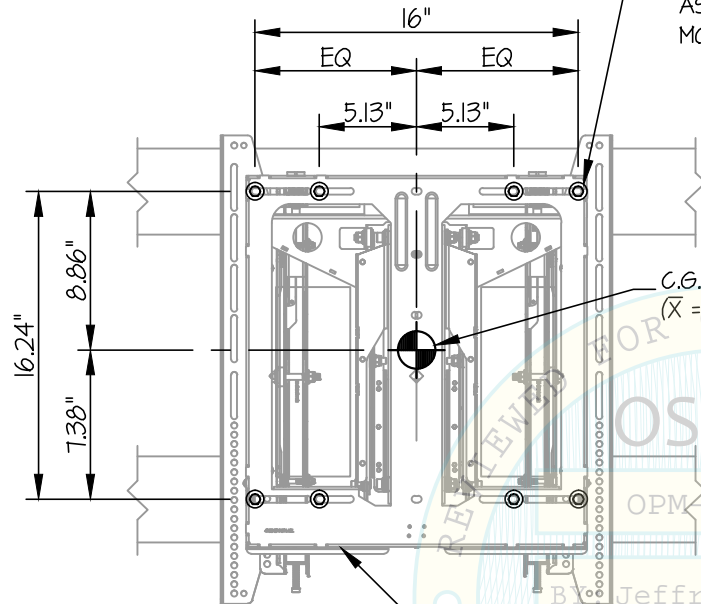
(4)- 8M (GR 2) M. SCREWS  
TO MONITOR

5/8" THK.  
WALL BOARD

C.G. WT. = 130 LB  
( $\bar{X}$  = 3.1")

UNIT BACKING  
(12 GA ASTM A1008, Fy=20 KSI)

DATE: 04/17/2019



$T_u$  = 64 LB/SCREW (MAX)  
 $V_u$  = 54 LB/SCREW (MAX)  
(VALUES DO NOT INCLUDE  $\Omega_u$ )

#### ELEVATION AT STEEL STUD WALL (LMVSP MOUNT)

#### WOOD STUD WALL SECTION



## PREMIER MOUNTS

### LMV, LMVS, LMVP AND LMVSP WALL MOUNTS

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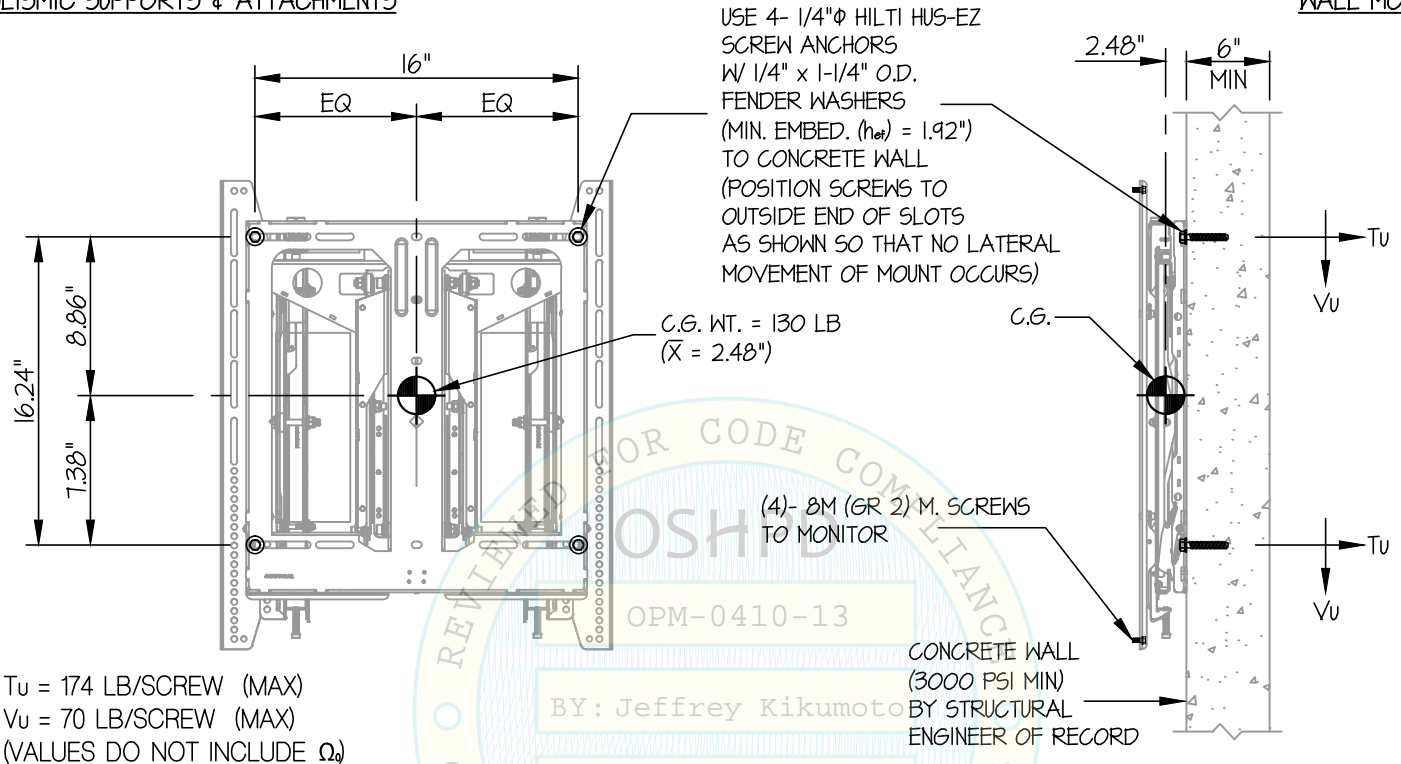
SHEET

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OF 14 SHEETS

#### SEISMIC SUPPORTS & ATTACHMENTS

#### WALL MOUNTED



ELEVATION AT STEEL STUD WALL  
(LMVSP MOUNT)

CONCRETE WALL SECTION

