

# OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

OF MANUFACTURER'S CERTIFICATION (OPM)  APPLICATION #: OPM-0278-13										
OSHPD Preapproval of Manufacturer's Certification (OPM)										
ype: ☐ New ☐ Renewal ☐ Update to Pre-CBC 2013 OPA Number:										
Manufacturer Information										
Manufacturer: Milestone AV Technologies										
Manufacturer's Technical Representative: Michael Harrell										
Mailing Address: 8401 Eagle Creek Parkway, Ste 700, Savage, MN. 55378										
Telephone: (952) 225-6313 Email: DMichael.harrell@milestone.com										
Product Information										
Product Name: MSA1U & MTA1U Series Monitor Wall Mounts										
Product Type: Computer OPM-0278-13										
BY: William Staehlin										
General Description: Wall Mount for Video Monitor										
DATE: 02/18/2016										
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, 2013.										
Signature of Applicant: Date: 12/7/15										
Title: Principal Engineer Company Name: EASE Co.										

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

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-700 (REV 1/24/13)

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# 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: 909-606-7667 Email: J.Roberson@EASECo.com									
OSHPD Special Seismic Certification Preapproval (OSP)									
<ul> <li>□ Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required)</li> <li>□ Special Seismic Certification is not preapproved</li> </ul>									
Certification Method(s)									
☐ Testing in accordance with: ☐ ICC-ES AC156 ☐ FM 1950-10 ☐ Other* (Please Specify):									
*Use of test criteria other than those adopted by the California Building Standards Code, 2013 (CBSC 2013) 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 2013 may be used when approved by OSHPD prior to testing.  Applysis									
<ul> <li>Analysis</li> <li>□ Experience Data</li> <li>□ DATE: 02/18/2016</li> </ul>									
☐ 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 2013 ONLY									
Signature: Date: 02/18/2016									
Print Name: William Staehlin									
Title: SSE									
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-0278-13

THIS PREAPPROVAL CONFORMS TO THE 2013 CALIFORNIA BUILDING CODE

MANUFACTURER: EQUIPMENT NAME:

**MILESTONE INC.** 

MSA1U & MTA1U SERIES MONITOR WALL MOUNT

Sheet: 1 of 8 Date: 2/10/16

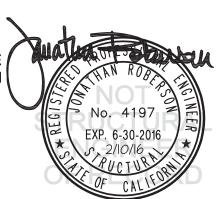
### **GENERAL NOTES**

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2013 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2013 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 2013 CALIFORNIA BUILDING CODE WHERE SDS 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 SDS = 2.20,  $\mathbf{a}_{D}$  = 2.5,  $\mathbf{I}_{D}$  = 1.5,  $\mathbf{R}_{D}$  = 2.5,  $\mathbf{z}/\mathbf{h}$  < 1 CONCRETE WALL. SEE FOLLOWING SHEETS FOR  $\Omega_{D}$
- 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. CONCRETE WALL DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION. (i.e. z/h < 1)

### 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 2013 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 WALL 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 CONCRETE WALL 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.
- G. DESIGN BACKING BARS, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS.



www.EquipmentAnchorage.com

MILESTONE INC.

**MSA1U & MTA1U SERIES MONITOR WALL MOUNT** 

DES. J. ROBERSON

11-1518 JOB NO.

2/10/16 DATE

SHEETS

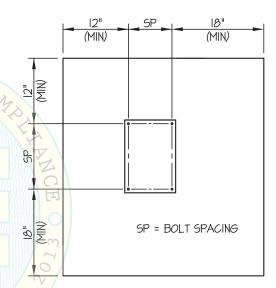
### 9. EXPANSION ANCHORS:

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

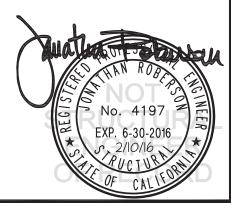
Anchor Diameter	Concrete Type	Min. fc (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Torque Test	Direct Tension Test
1/4"	Normal Weight	3000	Hilti Kwik HUS	ESR-3027	1.92"	2.5"	12"	6"	N/A	779

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE WALL EDGES, 12" AWAY MINIMUM (i.e. - CORNER). SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE **EDGE DISTANCES.**
- C. TESTING OF CONCRETE SCREW ANCHORS PER 2013 CBC, 1913A.7: 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 OR 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! UTILDING
- E. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER.



TYPICAL CONCRETE EDGE DETAIL



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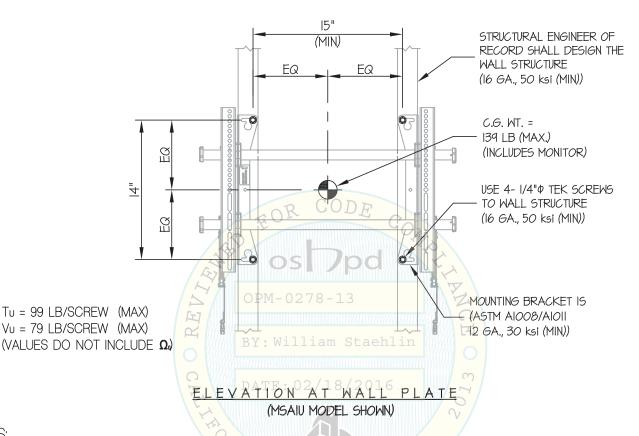
11-1518 JOB NO.

2/10/16 DATE

SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED



### NOTES:

1. FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10.

STRENGTH DESIGN IS USED. (SDS = 2.20, 2p = 2.5, 2p = 1.5, 2p = 2.5, 2p

HORIZONTAL FORCE (Eh) = 3.96 Wp

HORIZONTAL FORCE (Emh) = 4.95 Wp (FOR CONCRETE ANCHORAGE)

VERTICAL FORCE (E<sub>V</sub>) = 0.44 W<sub>p</sub>

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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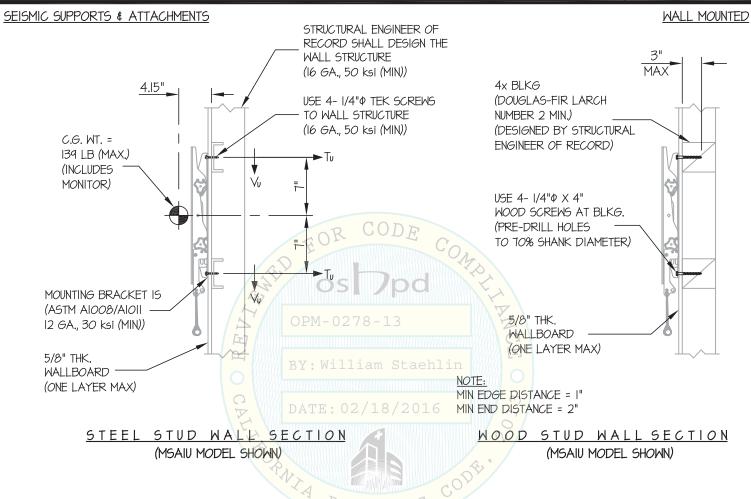
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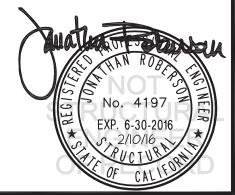
MSA1U & MTA1U SERIES MONITOR WALL MOUNT

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OF SHEETS





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**MSA1U & MTA1U SERIES** MONITOR WALL MOUNT

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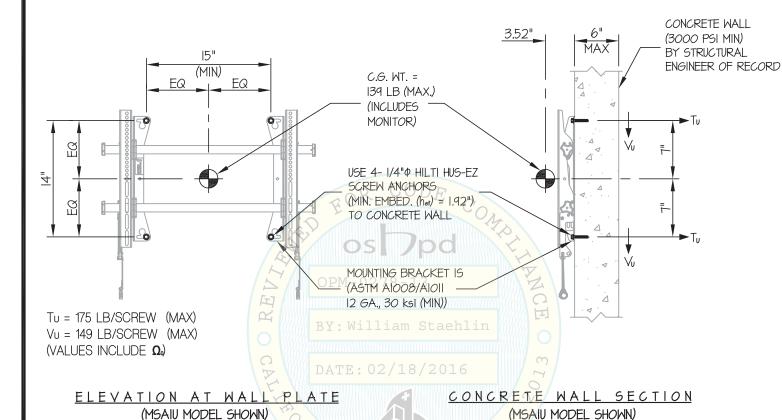
2/10/16 DATE

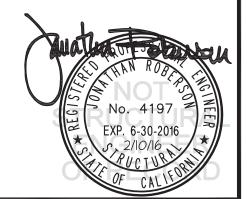
SHEET

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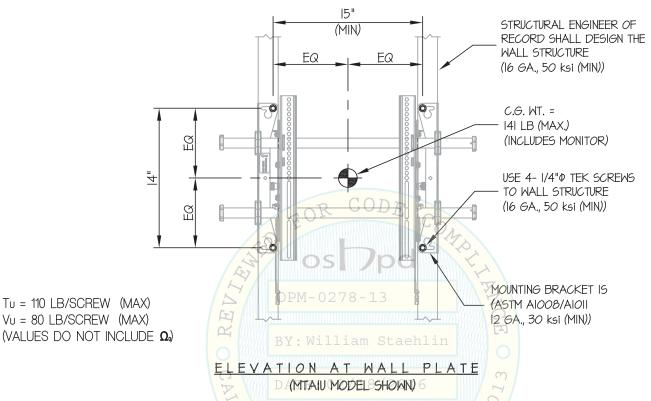
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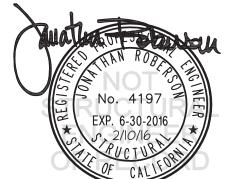
STRENGTH DESIGN IS USED. (SDS = 2.20, 20 = 2.5, 10 = 1.5, 10 = 2.5, 10

HORIZONTAL FORCE (En) = 3,96 Wp3 77 -

HORIZONTAL FORCE (Emh) = 4.95 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.
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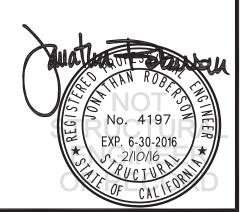
### **EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING** www.EquipmentAnchorage.com SHEET DES. J. ROBERSON MILESTONE INC. 11-1518 JOB NO. MSA1U & MTA1U SERIES MONITOR WALL MOUNT 2/10/16 DATE OF SHEETS SEISMIC SUPPORTS & ATTACHMENTS WALL MOUNTED STRUCTURAL ENGINEER OF RECORD SHALL DESIGN THE WALL STRUCTURE (16 GA., 50 ksi (MIN)) MAX 5.02 4x BLKG USE 4- 1/4" PTEK SCREWS (DOUGLAS-FIR LARCH TO WALL STRUCTURE NUMBER 2 MIN.) (16 GA., 50 ksi (MIN)) (DESIGNED BY STRUCTURAL C.G. WT. = ENGINEER OF RECORD) 141 LB (MAX.) **►**Tu (INCLUDES MONITOR) USE 4- 1/4" \$\psi \times 4" WOOD SCREWS AT BLKG. (PRE-DRILL HOLES TO 70% SHANK DIAMETER) MOUNTING BRACKET IS (ASTM AIOO8/AIOII 12 GA., 30 ksi (MIN)) 5/8" THK. WALLBOARD 5/8" THK. (ONE LAYER MAX) WALLBOARD (ONE LAYER MAX) NOTE: MIN EDGE DISTANCE = I" DATE: 02/18/20 MIN END DISTANCE = 2"

STEEL STUD WALL SECTION

(MTAIL MODEL SHOWN)

MOOD STUD WALL SECTION

(MTAIN MODEL SHOWN)



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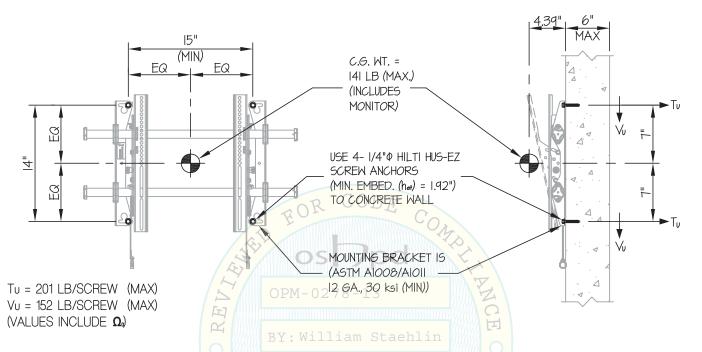
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SHEET

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WALL MOUNTED



ELEVATION AT WALL PLATE (MTAIU MODEL SHOWN) ATE: 02/18/2016 CONCRETE WALL SECTION

(MTAIU MODEL SHOWN)

