

**APPLICATION FOR OSHPD PREAPPROVAL** 

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

OFFICE USE ONLY

OF MANUFACTURER'S CERTIFICATION (OPM) APPLICATION #: OPM-0163-13
OSHPD Preapproval of Manufacturer's Certification (OPM)
Type: ☐ New ☐ Renewal ☐ Update to Pre-CBC 2013 OPA Number:
Manufacturer Information
Manufacturer: GCX Corporation
Manufacturer's Technical Representative: Rob Glaser
Mailing Address: 3875 Cypress Drive, Petaluma, CA. 94954-5635
Telephone: (800) 228-2555 Email: rglaser@gcx.com
Product Information OS DDd
Product Name: GCX Wall Mount with M & VHM Arms w/Horizontal Rails
Product Type: Cantilever
Product Model Number: 19" & 37" Wall Channels w/M; VHM & VHM25 Arms & Horizontal Rails
General Description: Wall Mounted Monitor and Keyboard Support
DATE: 01/26/2017
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
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: 5/3/16
Title: Principal Engineer Company Name: EASE Co.

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





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: <u>J.Roberson@EASECo.com</u>
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 1950-16 ☐ Other* (Please Specify):
OPM-0163-13
*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  DATE: 01/26/2017
☐ Experience Data
Combination of Testing, Analysis, and/or Experience Data (Please Specify):
List of Attachments Supporting the Manufacturer's Certification
<ul> <li>☐ Test Report</li> <li>☐ Drawings</li> <li>☐ Calculations</li> <li>☐ Manufacturer's Catalog</li> <li>☐ Other(s) (Please Specify):</li> </ul>
OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2016 & ALL PRE-2016 CODE BASED PROJECTS
Signature: Date:
Print Name:
Title: DSE
Condition of Approval (if applicable):

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







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-0163-13

THIS PREAPPROVAL CONFORMS TO THE 2016 CALIFORNIA BUILDING CODE

MANUFACTURER:

GCX CORPORATION

Sheet: \_1 of 11

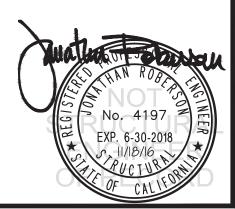
**EQUIPMENT NAME:** 

GCX WALL MOUNT W/ M & VHM ARMS W/HORIZONTAL RAILS

Date: 11/18/16

#### **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.
- 4. FORCES PER ASCE 7-10 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE SDS = 1.20,  $a_p = 2.5$ ,  $l_p = 1.5$ ,  $R_p = 2.5$ , z/h < 1.
- 5. THE DETAILS IN THIS PREAPPROVAL MAY BE USED AT ANY LOCATION IN THE STATE OF CALIFORNIA, WHERE SDS IS NOT GREATER THAN 1.20.
- 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. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- 9. RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD OF THE BUILDING
  - A. PROVIDE SUPPORTING STRUCTURE REQUIRED 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 SHOWN IN THIS PREAPPROVAL. VERIFY THAT THE ACTUAL EQUIPMENT'S WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN ON THE PREAPPROVAL DOCUMENTS.
  - C. VERIFY THAT THE COMBINATION OF SDS & z/h RESULT IN SEISMIC FORCES (Eh , Ev) THAT ARE NOT GREATER THAN THE VALUES ON THE DETAILS.
  - D. DESIGN BACKING PLATE, BLOCKING, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS.



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### GCX CORPORATION

# GCX WALL MOUNT W/ M & VHM ARMS W/HORIZONTAL RAILS

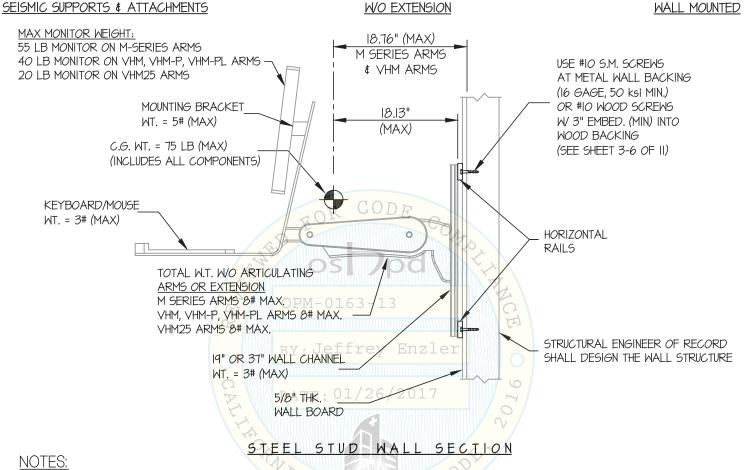
DE8. J. ROBERSON

**JOB NO.** 11-1441

DATE 11/18/16

SHEET 2

OF 11 SHEETS



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

STRENGTH DESIGN IS USED. (Sps = 1.20, ap = 2.5, lp = 1.5, Rp = 2.5, z/h < 1)

HORIZONTAL FORCE (Eh) = 2.16 Wp VERTICAL FORCE (Ev) = 0.24 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

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### GCX CORPORATION

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DES. J. ROBERSON

11-1441 JOB NO.

11/18/16 DATE

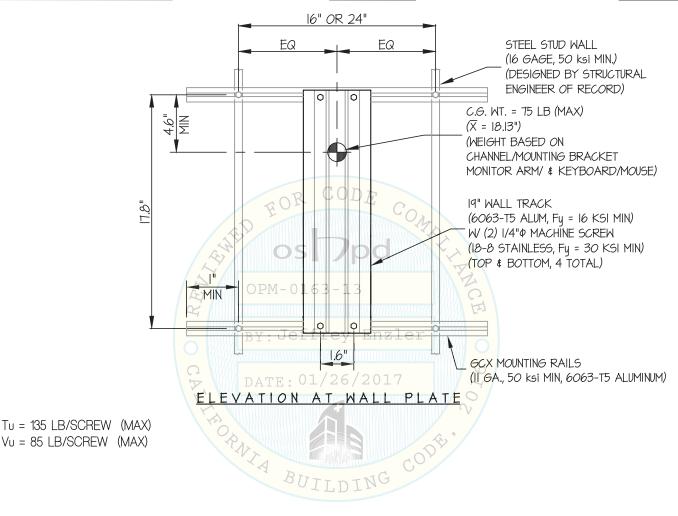
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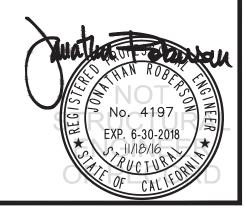
SHEETS OF

SEISMIC SUPPORTS & ATTACHMENTS

W/O EXTENSION

WALL MOUNTED





Vu = 85 LB/SCREW (MAX)

JOB NO.

GCX CORPORATION

DES. J. ROBERSON

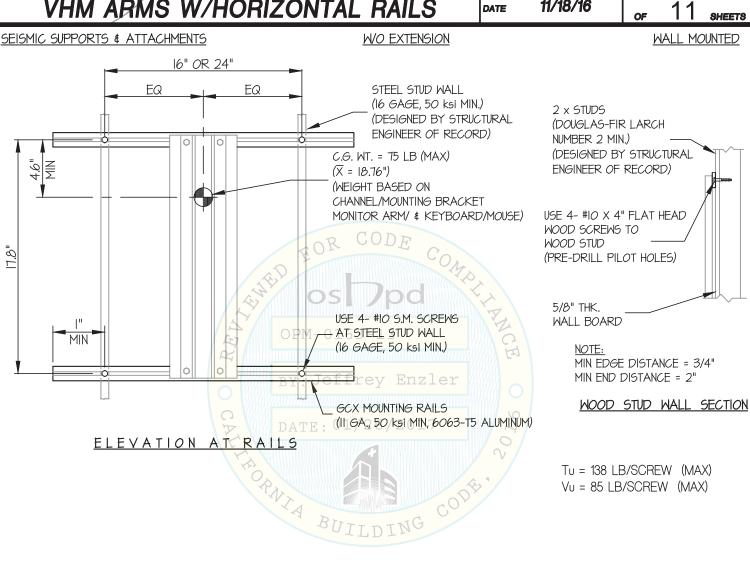
11-1441

SHEET

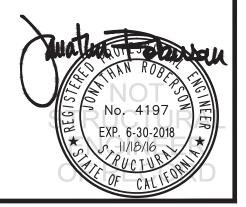
GCX WALL MOUNT W/ M & VHM ARMS W/HORIZONTAL RAILS

11/18/16

SHEETS



Tu = 138 LB/SCREW (MAX) Vu = 85 LB/SCREW (MAX)



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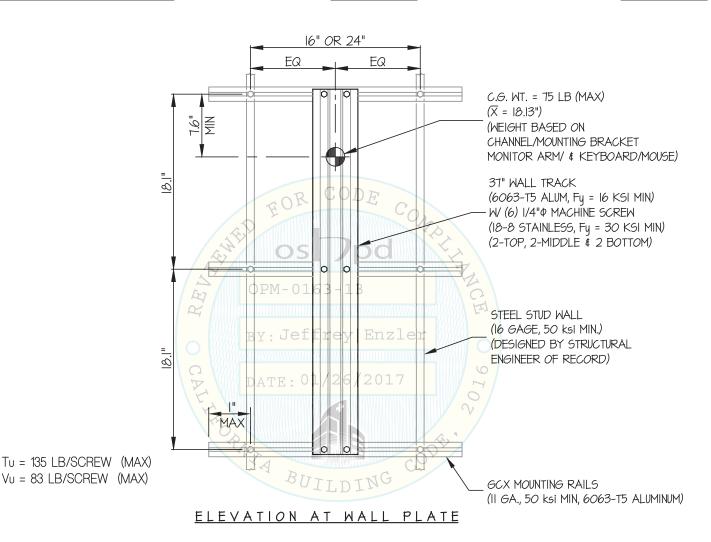
SHEET 5

OF 11 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

W/O EXTENSION

WALL MOUNTED





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# GCX WALL MOUNT W/ M & VHM ARMS W/HORIZONTAL RAILS

DES. J. ROBERSON

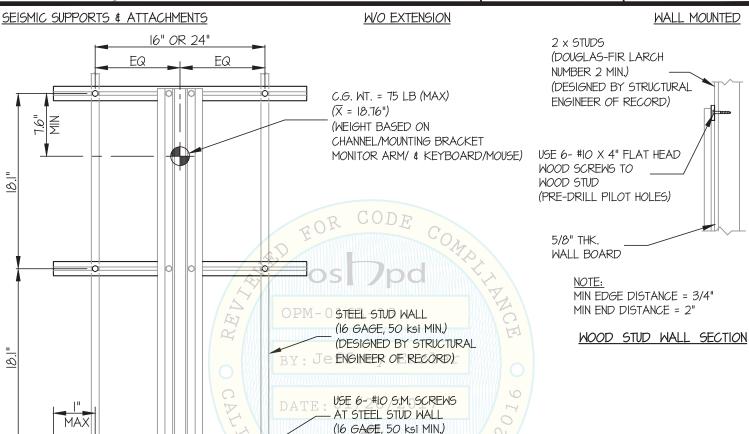
JOB NO. 11-1441

DATE 11/18/16

SHEET

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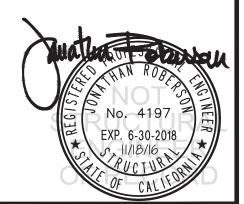
OF 11 SHEETS



GCX MOUNTING RAILS

(II GA., 50 ksi MIN, 6063-T5 ALUMINUM)

Tu = 137 LB/SCREW (MAX) Vu = 83 LB/SCREW (MAX)



ELEVATION AT RAILS

## GCX CORPORATION

## GCX WALL MOUNT W/ M & VHM ARMS W/HORIZONTAL RAILS

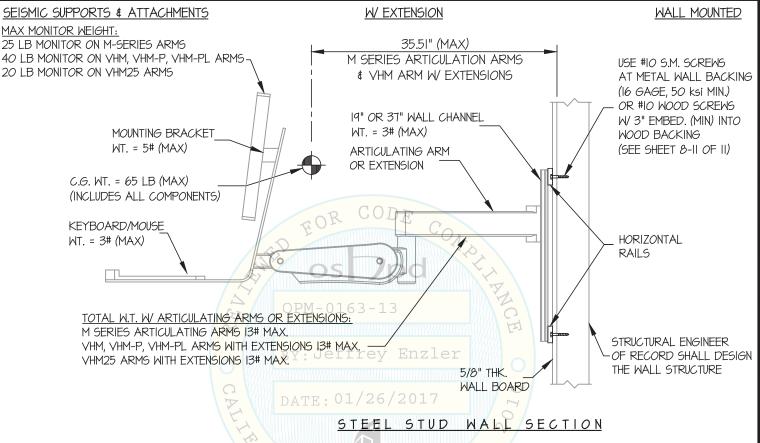
DES. J. ROBERSON

**ЈОВ NO.** 11-1441

DATE 11/18/16

SHEET 7

of 11 sheets



#### NOTES:

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

STRENGTH DESIGN IS USED. (SDS = 1.20, 2p = 25, p = 1.5, 2p = 2.5, 2p =

HORIZONTAL FORCE (Eh) = 2.16 Wp VERTICAL FORCE (Ev) = 0.24 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



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### GCX CORPORATION

# GCX WALL MOUNT W/ M & VHM ARMS W/HORIZONTAL RAILS

DES. J. ROBERSON

JOB NO. 11-1441

DATE 11/18/16

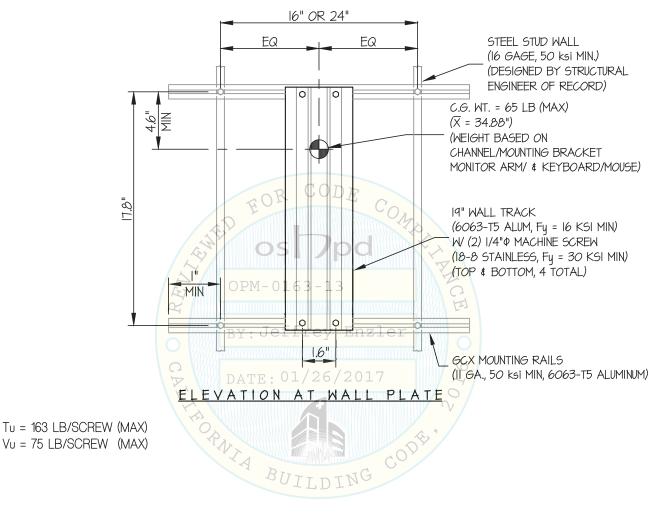
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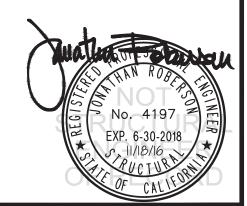
OF 11 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

W/ EXTENSION

**MALL MOUNTED** 





GCX CORPORATION

DES. J. ROBERSON

11/18/16

2 x STUDS

NUMBER 2 MIN.)

JOB NO. 11-1441

DATE

9

SHEET

OF 11 SHEETS

WALL MOUNTED

# GCX WALL MOUNT W/ M & VHM ARMS W/HORIZONTAL RAILS

EQ

16" OR 24"

EQ

W/ EXTENSION

STEEL STUD WALL (16 GAGE, 50 ksi MIN.) (DESIGNED BY STRUCTURAL

ENGINEER OF RECORD)

C.G. WT. = 65 LB (MAX)

(X = 35.5|")

(WEIGHT BASED ON

CHANNEL/MOUNTING BRACKET

MONITOR ARM/ & KEYBOARD/MOUSE)

USE 4- #IO X 4" FLAT HEAD WOOD SCREWS TO

ENGINEER OF RECORD)

(DOUGLAS-FIR LARCH

(DESIGNED BY STRUCTURAL

WOOD STUD —— (PRE-DRILL PILOT HOLES)

5/8" THK. WALL BOARD

NOTE:
MIN EDGE DISTANCE = 3/4"
MIN END DISTANCE = 2"

WOOD STUD WALL SECTION

GCX MOUNTING RAILS

ORNIA BUILDING

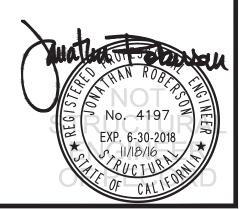
(II GA., 50 ksi MIN, 6063-T5 ALUMINUM)

ELEVATION ATTRAILS

Tu = 165 LB/SCREW (MAX) Vu = 75 LB/SCREW (MAX)

MIN

SEISMIC SUPPORTS & ATTACHMENTS



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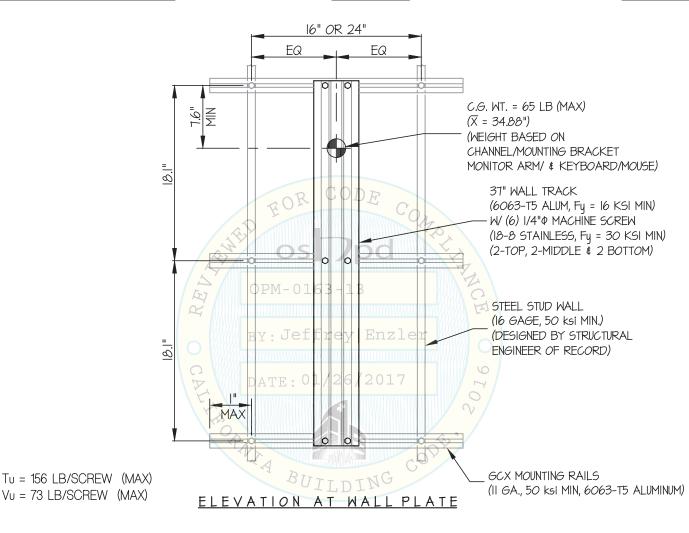
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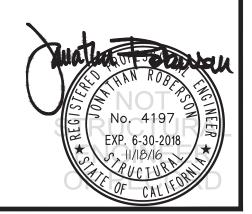
OF 11 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

W/ EXTENSION

WALL MOUNTED





GCX CORPORATION

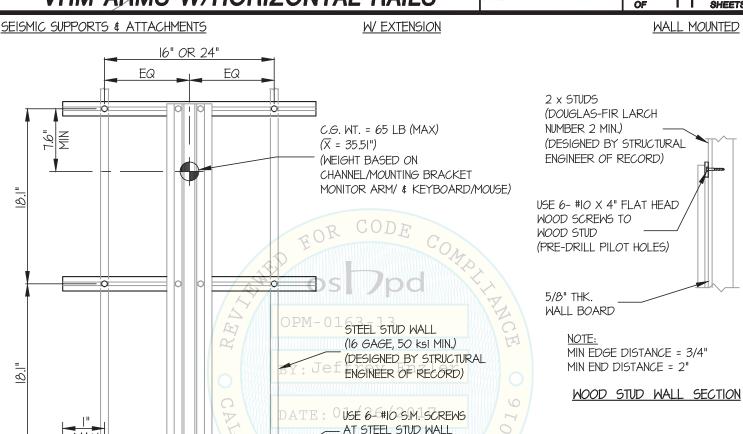
GCX WALL MOUNT W/ M & VHM ARMS W/HORIZONTAL RAILS DES. J. ROBERSON

11-1441 JOB NO.

11/18/16 DATE

SHEET

SHEETS



(16 GAGE, 50 ksi MIN.)

GCX MOUNTING RAILS

(II GA., 50 ksi MIN, 6063-T5 ALUMINUM)

Tu = 157 LB/SCREW (MAX) Vu = 72 LB/SCREW (MAX)



ELEVATION AT RAILS