



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY
APPLICATION #: OPM-0501-13

OSHPD Preapproval of Manufacturer's Certification (OPM)

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

Manufacturer Information

Manufacturer: TORVAN MEDICAL, INC.

Manufacturer's Technical Representative: Hassan Alavi

Mailing Address: 4W3, 417 Homer Ave., Etobicoke, ON M8W, Canada

Telephone: On File Email: On File

Product Information

Product Name: Endoscope Drying Cabinets

Product Type: Other Mechanical and Electrical Components

Product Model Number: Single & Double Door (Wall Mount); Single & Double Door (Wall Pass-Through)

General Description: Drying Cabinets for Endoscope Equipment

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

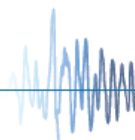
I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

Signature of Applicant: [Signature] Date: 7/16/18

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"



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

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.

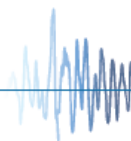
- Analysis
Experience Data
Combination of Testing, Analysis, and/or Experience Data (Please Specify):

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: Sonia Eliseo Date: 5/22/2019
Print Name: Sonia Eliseo
Title: SE
Condition of Approval (if applicable):



**EASE****EQUIPMENT ANCHORAGE
& SEISMIC ENGINEERING**5877 Pine Ave, Ste. 210
Chino Hills, CA. 91709
Phn: (909) 606-7622Office of Statewide Health Planning and Development
PREAPPROVAL OF MANUFACTURER'S CERTIFICATION
OPM-0501-13**THIS PREAPPROVAL CONFORMS TO THE 2016 CALIFORNIA BUILDING CODE**MANUFACTURER: **TORVAN MEDICAL, INC.**
EQUIPMENT NAME: **SINGLE & DOUBLE DOOR DRYING CABINET**Sheet: 1 of 6

Date: 4/12/19

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.
4. FORCES PER ASCE 7-10 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE $S_{Ds} = 1.60$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 1.5$, $z/h \leq 1$.
5. THE DETAILS IN THIS PREAPPROVAL MAY BE USED AT ANY LOCATION IN THE STATE OF CALIFORNIA, WHERE S_{Ds} IS NOT GREATER THAN 1.60.
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 S_{Ds} & z/h RESULT IN SEISMIC FORCES (E_h , E_v) THAT ARE NOT GREATER THAN THE VALUES ON THE DETAILS.
 - D. DESIGN BACKING BARS, STUDS, ETC. WHICH THE UNITS ARE ATTACHED TO AS NOTED ON THE DRAWINGS.



TORVAN MEDICAL, INC. SINGLE & DOUBLE DOOR DRYING CABINET

DES. **J. ROBERSON**

JOB NO. **11-1821**

DATE **4/12/19**

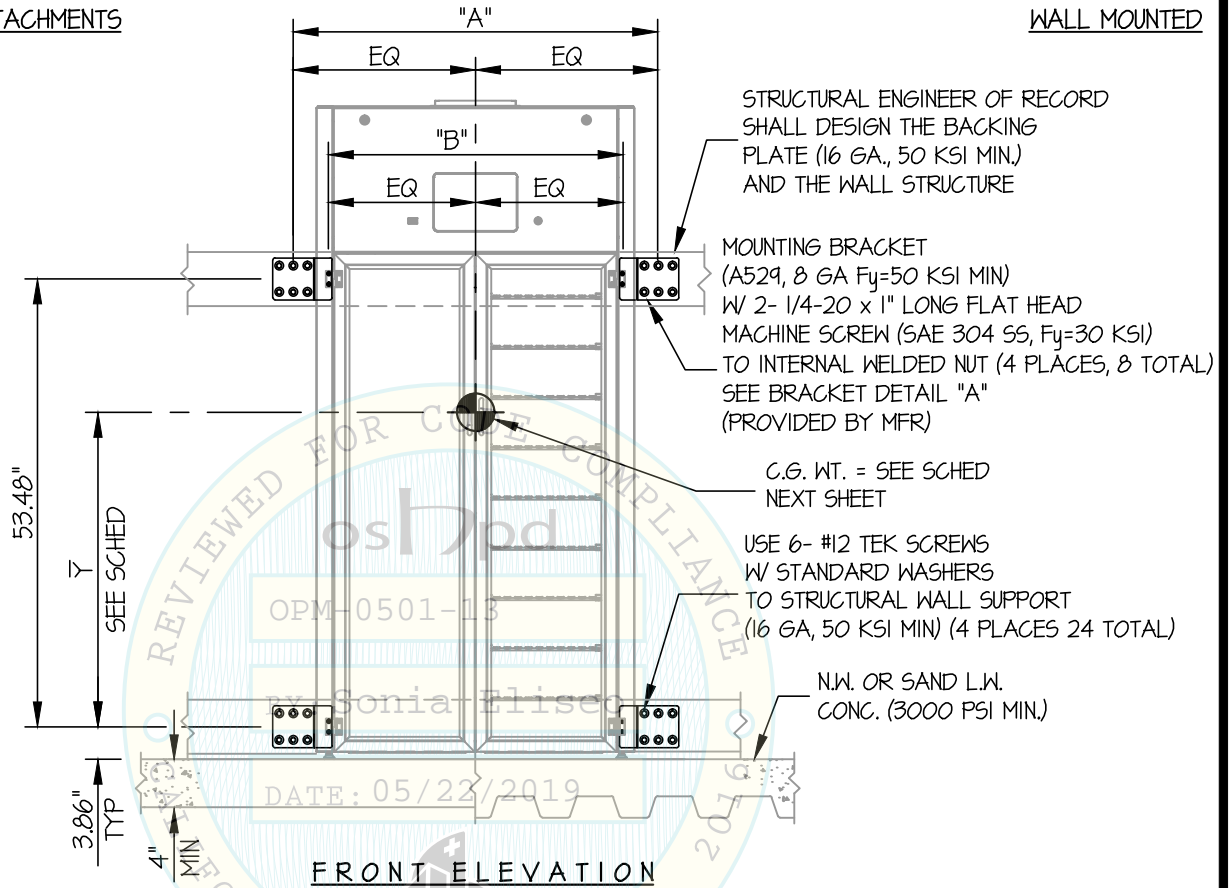
SHEET

2

OF **6** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED



FRONT ELEVATION
(DOUBLE DOOR PASSTHROUGH MODEL SHOWN)

NOTES:

- FORCES ARE DETERMINED PER 2016 CALIFORNIA BUILDING CODE AND ASCE 7-10**
STRENGTH DESIGN IS USED. ($S_{ds} = 1.60$, $a_p = 1.0$, $I_p = 1.5$, $R_p = 1.5$, $\Omega_o = 1.5$, $z/h \leq 1$)

HORIZONTAL FORCE (E_h) = $1.92 W_p$

VERTICAL FORCE (E_v) = $0.32 W_p$

- 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: SHEETS 1.



TORVAN MEDICAL, INC. SINGLE & DOUBLE DOOR DRYING CABINET

DES. **J. ROBERSON**

JOB NO. **11-1821**

DATE **4/12/19**

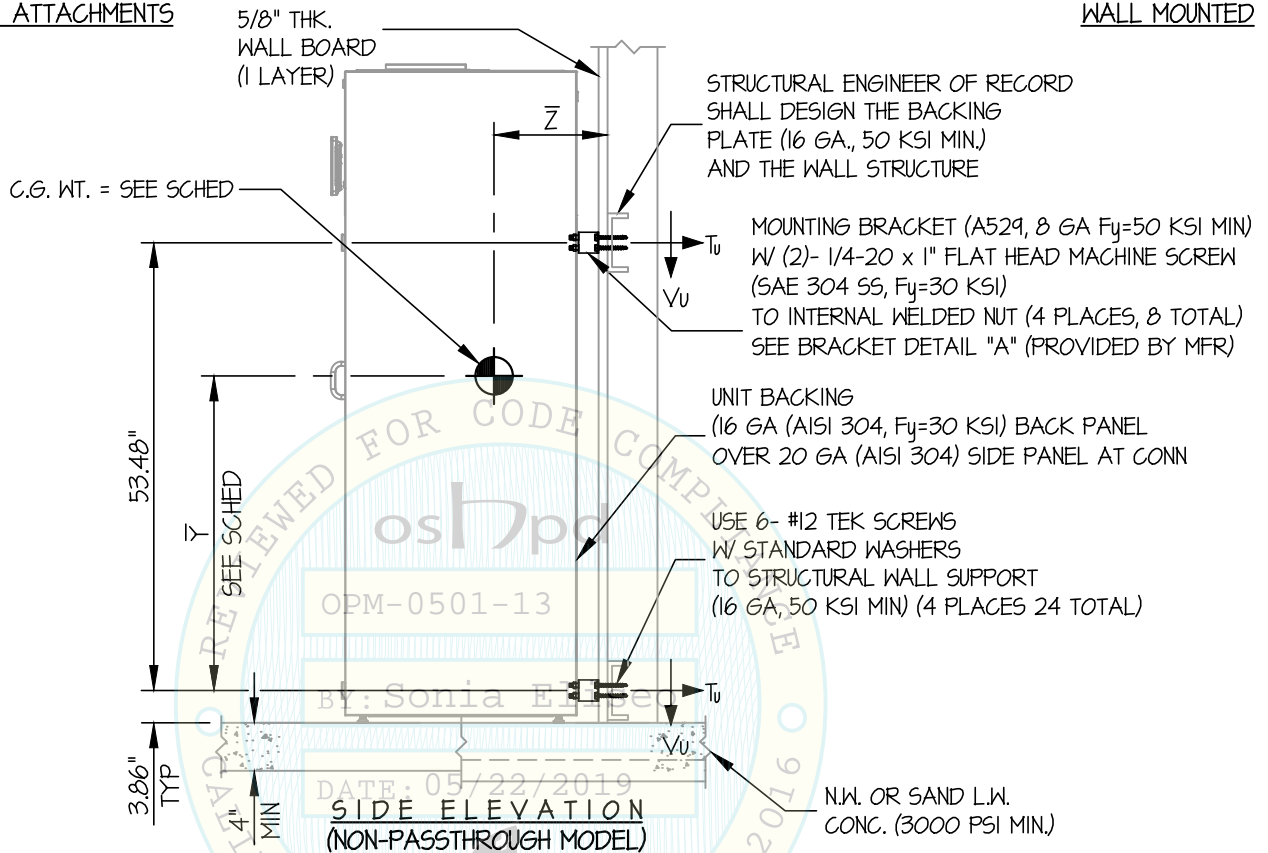
SHEET

3

OF **6** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED



UNIT	LOADED WEIGHT (lb.)	\bar{Y} (in.)	\bar{Z} (in.)	"A" (in.)	* T_u (lb./screw)	* V_u (lb./screw)
SINGLE DOOR	875	37.9	13.3	34.2	122	99
DOUBLE DOOR	1200	35.8	16.6	43.2	159	129

* VALUES DO NOT INCLUDE Ω_o
VALUES REPRESENT DEMANDS AT TEK SCREWS



TORVAN MEDICAL, INC. SINGLE & DOUBLE DOOR DRYING CABINET

DES. J. ROBERSON

SHEET

4

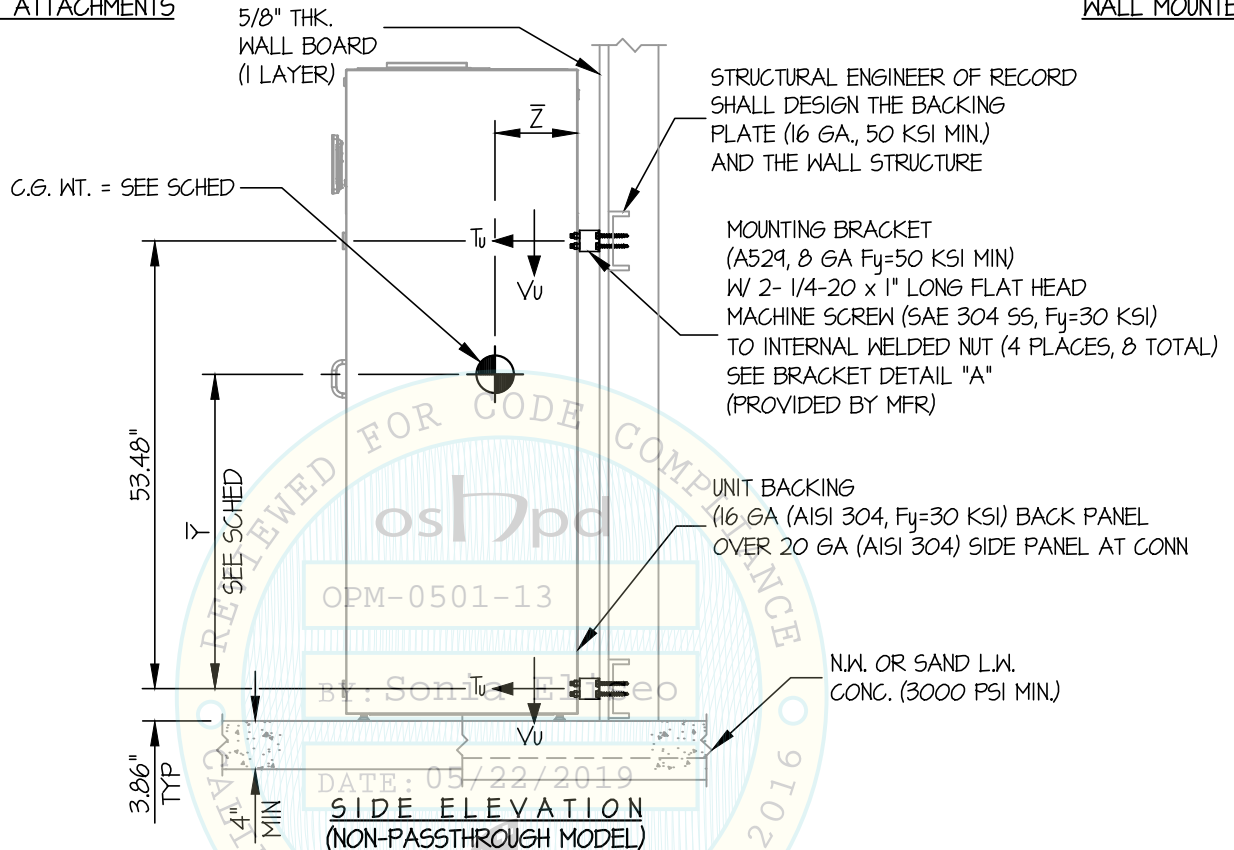
JOB NO. 11-1821

DATE 4/12/19

OF 6 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

WALL MOUNTED



DATE: 05/22/2019
SIDE ELEVATION
(NON-PASSTHROUGH MODEL)

UNIT	LOADED WEIGHT (lb)	\bar{Y} (in)	\bar{Z} (in)	"B" (in)	* T_u (lb./screw)	* V_u (lb./screw)
SINGLE DOOR	875	37.9	10.1	25.6	369	298
DOUBLE DOOR	1200	35.8	13.4	34.6	476	386

* VALUES DO NOT INCLUDE Ω_s
VALUES REPRESENT DEMANDS AT MACHINE SCREWS



TORVAN MEDICAL, INC. SINGLE & DOUBLE DOOR DRYING CABINET

DES. J. ROBERSON

JOB NO. 11-1821

DATE 4/12/19

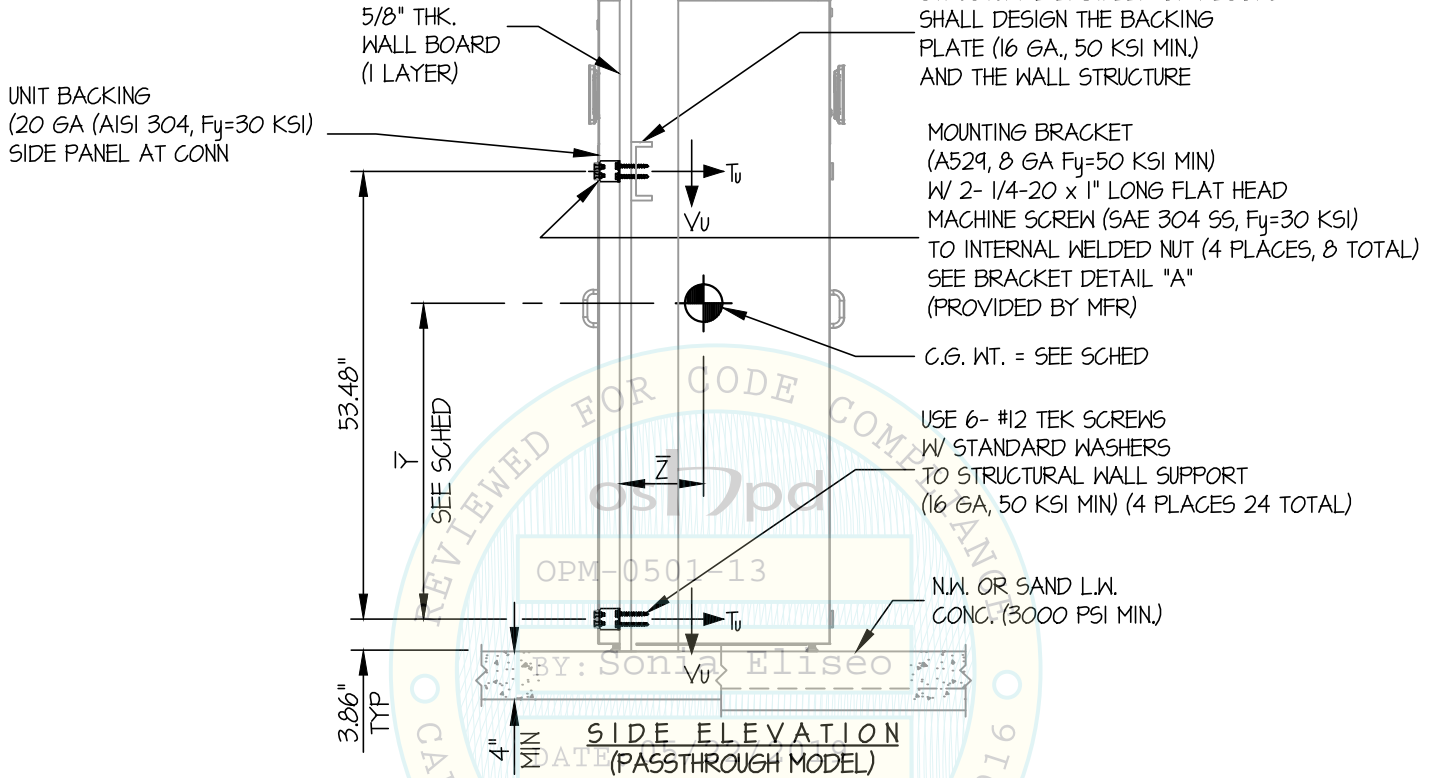
SHEET

5

OF 6 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

STRUCTURAL ENGINEER OF RECORD BRACKET DETAIL



UNIT	LOADED WEIGHT (lb.)	\bar{Y} (in.)	\bar{Z} (in.)	"A" (in.)	* T_u (lb./screw)	* V_u (lb./screw)
SINGLE DOOR	875	38.2	9.9	34.2	118	100
DOUBLE DOOR	1200	37.5	10.2	43.2	154	135

* VALUES DO NOT INCLUDE Ω_s
VALUES REPRESENT DEMANDS AT TEK SCREWS



TORVAN MEDICAL, INC.

DES. **J. ROBERSON**

SHEET

6

**SINGLE & DOUBLE DOOR
DRYING CABINET**

JOB NO. **11-1821**

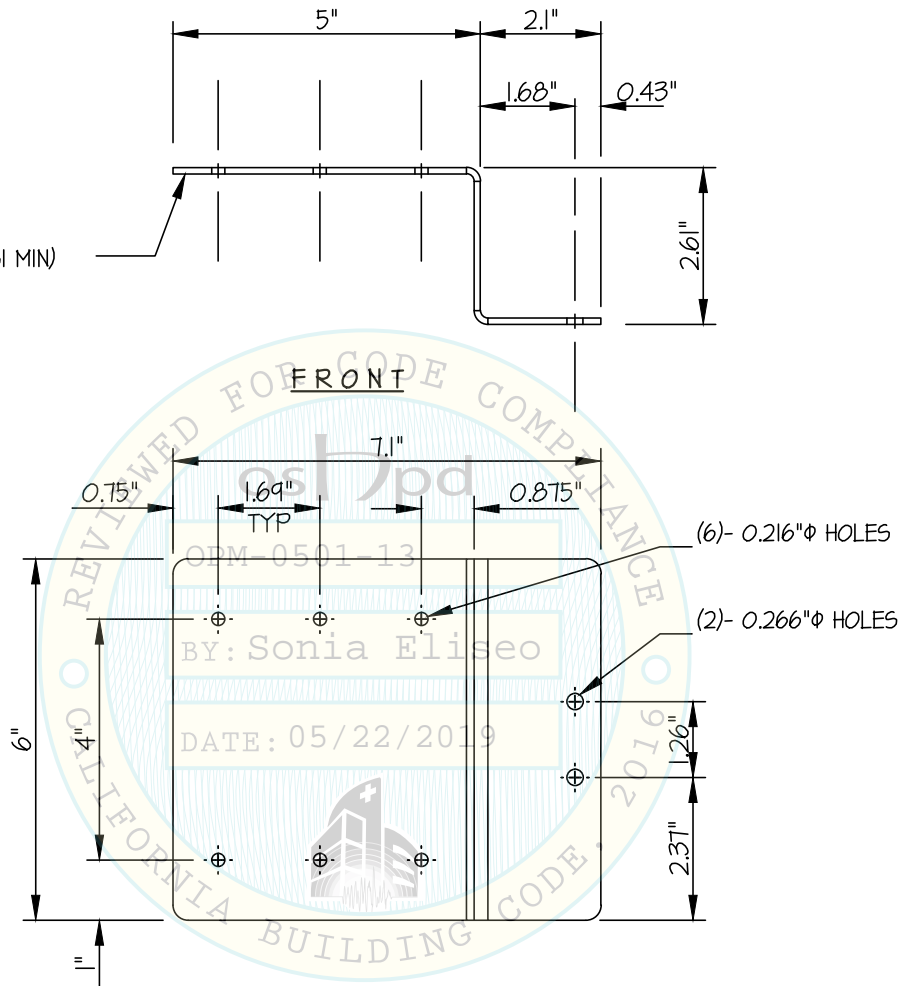
DATE **4/12/19**

OF **6** SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAIL

BRACKET MATERIAL
(A529, 8 GA Fy=50 KSI MIN)
(BY TORVAN)



BRACKET DETAIL (A)

