



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY
APPLICATION #: OPM-0303-13

OSHPD Preapproval of Manufacturer's Certification (OPM)

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

Manufacturer Information

Manufacturer: ORION RETAIL SERVICES
Manufacturer's Technical Representative: JOEL ROCHON
Mailing Address: 270 JENCKES HILL RD. SMITHFIELD, RI 02917
Telephone: 401-334-5000 X161 Email: jrochon@orionred.com

Product Information

Product Name: MAMAVA LACTATION SUITE
Product Type: MODULAR SUITE FOR NURSING MOTHERS
Product Model Number: 308267
General Description: MODULAR SUITE FOR NURSING MOTHERS TO HAVE A PRIVATE, SAFE AND CLEAN SPACE TO PUMP OR NURSE WHEN THEY ARE AWAY FROM HOME OR AT WORK.

Applicant Information

Applicant Company Name: MAMAVA
Contact Person: SASCHA MAYER
Mailing Address: 47 MAPLE ST. SUITE 110 BURLINGTON, VT 05401
Telephone: 802-347-21111 Email: sascham@mamava.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: [Handwritten Signature] Date: 1/28/16
Title: PRESIDENT Company Name: MAMAVA

"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: MORBIUS

Name: JEFFREY A. ROESSLER, PE California License Number: C32466

Mailing Address: 4850 BARRANCA PARKWAY, SUITE 205 IRVINE, CA 92604

Telephone: 949-651-8111 Email: morbius1@sbcglobal.net

**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 1950-10
- Other\* (Please Specify): \_\_\_\_\_

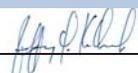
\*Use of criteria other than those adopted by the California Building Standards Code, 2013 (CBSC 2013) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2013 may be used when approved by OSHPD prior to testing.

- 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 2013 ONLY**

Signature:  Date: 08-05-2016

Print Name: Jeffrey Kikumoto

Title: SSE

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

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



**GENERAL**

1. THIS OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2013. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND COORDINATE ALL DETAILS AND DIMENSIONS SHOWN ON THE COMPONENT DRAWINGS WITH RELATED REQUIREMENTS ON ARCHITECTURAL, MECHANICAL, ELECTRICAL AND/OR CIVIL DRAWINGS FOR THE BUILDING INTO WHICH THE COMPONENT IS BEING INSTALLED.
3. WHERE A CONFLICT OCCURS BETWEEN THE NOTES ON THE DRAWINGS, GENERAL NOTES, AND SPECIFIC DETAILS, THE MORE RESTRICTIVE SHALL GOVERN.
4. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1 AND PART 2, 2013 EDITION.
5. DO NOT SCALE DRAWINGS.
6. VIBRATIONAL EFFECTS OF MECHANICAL EQUIPMENT ARE NOT CONSIDERED TO BE DETRIMENTAL TO THE COMPONENT.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES AND TO PROTECT THEM FROM DAMAGE.
8. LATERAL LOADS:  
COMPONENT WEIGHT ( $W_p$ )= 1500 POUNDS.  
SEISMIC LOAD ON COMPONENT:  
 $S_{DS} = 1.64$   
 $a_p = 1.0$   
 $I_p = 1.5$   
 $R_p = 1.5$   
 $\Omega_0 = 1.5$   
 $z/h = 0.0$   
 $F_p = 0.74 W_p$   
 $F_v = 0.33 W_p$
9. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS & ATTACHMENT OF THE EQUIPMENT TO THE STRUCTURE.
10. THE DETAILS IN THIS PREAPPROVAL MAY BE USED IN THE STATE OF CA WHERE  $S_{DS}$  LESS THAN OR EQUAL TO 1.63, AND AT SLAB LEVEL OR BELOW ( $z/h=0.0$ )

**RESPONSIBILITIES OF STRUCTURAL ENGINEER OF RECORD (SEOR) OF THE BUILDING**

1. VERIFY THAT ANCHORING SUBSTRATE IS REINFORCED CONCRETE.
2. VERIFY THAT THE MINIMUM THICKNESS OF THE CONCRETE IS SUFFICIENT FOR THE EMBEDMENT OF THE POST-INSTALLED ANCHORS.
3. VERIFY THE 28 DAY STRENGTH OF THE CONCRETE IS AT LEAST 3000 PSI.
4. PROVIDE A SUPPORTING STRUCTURE SUFFICIENT TO SUPPORT THE WEIGHTS AND FORCES SHOWN, IN ADDITION TO ALL OTHER LOADS.
5. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2013 CBC, AND WITH THE DETAILS SHOWN IN THIS PREAPPROVAL. VERIFY THAT THE ACTUAL EQUIPMENTS 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.
6. VERIFY THAT THE COMBINATION OF  $S_{DS}$  AND  $z/h$  RESULT IN SEISMIC FORCES ( $F_p, F_v$ ) THAT ARE NOT GREATER THAN THE VALUES ON THE DETAILS.

**STRUCTURAL STEEL**

1. STRUCTURAL STEEL SHALL CONFORM TO STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL FOR BUILDINGS (AISC 360-10) ASTM A992, GRADE 50.
2. FABRICATION AND ERECTION SHALL COMPLY WITH THE LATEST AISC SPECIFICATIONS.
3. ALL BOLTS SHALL CONFORM TO ASTM A307 UNLESS OTHERWISE NOTED.

**POST-INSTALLED ANCHORS**

1. POST-INSTALLED ANCHORS SHALL BE HILTI KB-TZ ANCHORS (ICC #ESR-1917). POST-INSTALLED SEE CBC 1913A.7 FOR QUALIFICATION DESIGN, USE, INSTALLATION & TESTING OF POST-INSTALLED ANCHORS. WHEN POST-INSTALLED ANCHORS ARE USED FOR NONSTRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE, 50 PERCENT OR ALTERNATE BOLTS IN A GROUP, INCLUDING AT LEAST ONE-HALF THE ANCHORS IN EACH GROUP, SHALL BE TENSION TESTED. THE TENSION TESTING OF THE POST-INSTALLED ANCHORS SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE INSTALLED BY THE SAME TRADE AND NOT PREVIOUSLY TESTED UNTIL (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY.

ANCHOR	TEST VALUES		
	NORMAL OR SAND LIGHTWEIGHT CONCRETE		
	WEDGE		INSTALLATION TORQUE (ft-lbs)
DIA. (in)	TEST LOAD (lbs) SAND LT WT. CONC O/ METAL DECK	TEST LOAD (lbs) NORMAL WT. CONC SLAB ON GRADE	
1/2	875	875	40

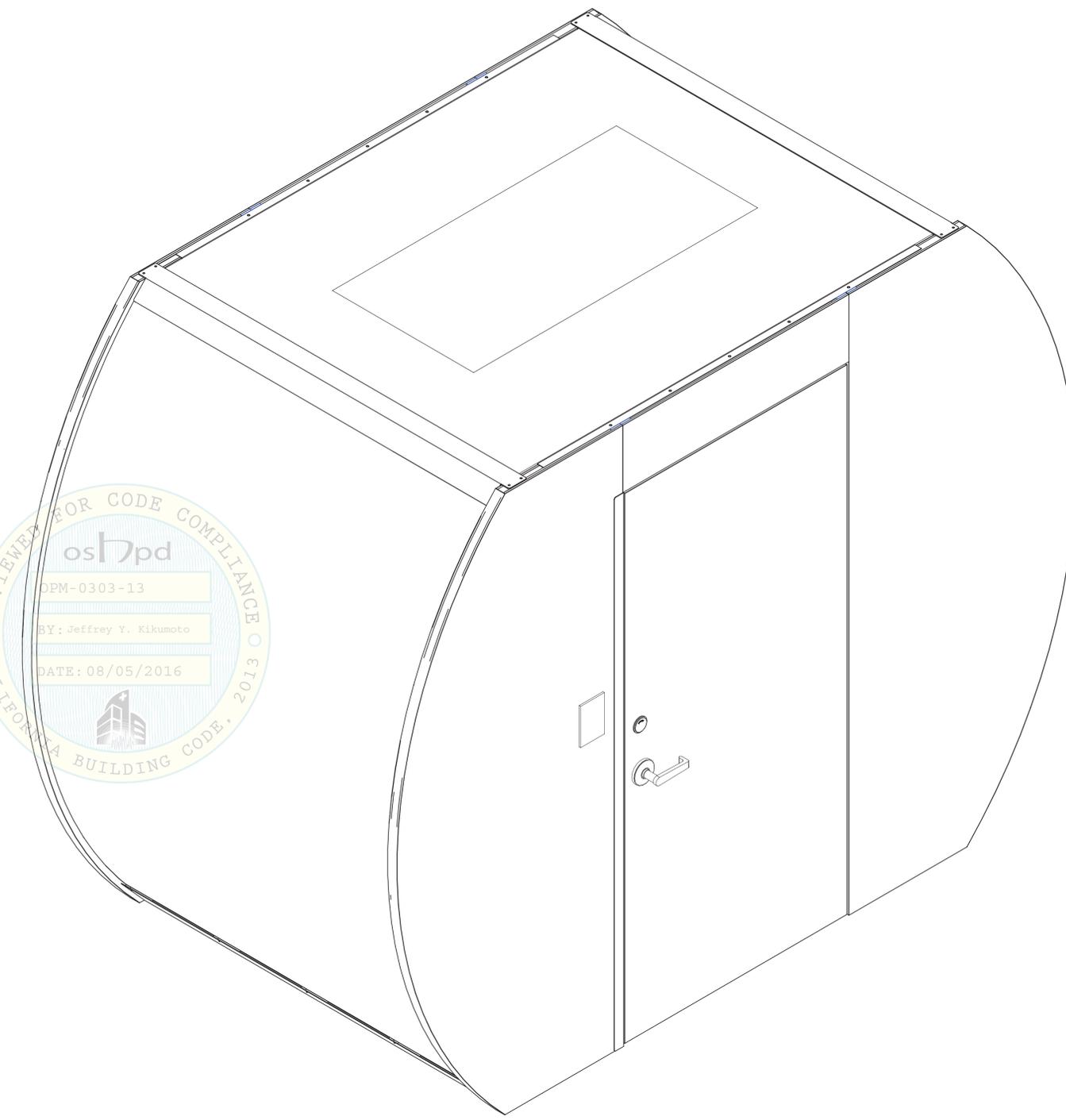
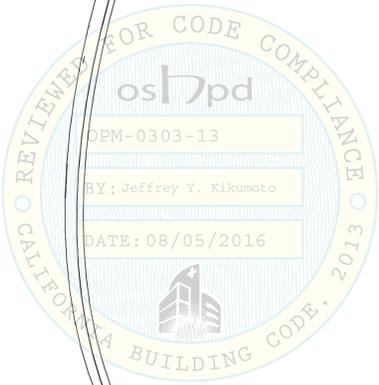
**NOTES:**

- ANCHOR DIAMETER REFERS TO THE THREAD SIZE FOR THE WEDGE AND SHELL CATEGORIES AND TO THE ANCHOR OUTSIDE DIAMETER FOR THE SLEEVE CATEGORY.
- APPLY PROOF TEST LOADS TO WEDGE ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS AS THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.
- REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).
- TEST EQUIPMENT (INCLUDING TORQUE WRENCHES) IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
- THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:  
**HYDRAULIC RAM METHOD:** THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. FOR WEDGE AND SLEEVE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE THE WASHER UNDER THE NUT BECOMES LOOSE.
- TESTING SHALL OCCUR A MINIMUM OF 24 HOURS AFTER INSTALLATION OF THE SUBJECT ANCHORS.
- ALL TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE INSPECTOR OF RECORD OR APPROVED SPECIAL INSPECTOR. A REPORT TO TEST RESULTS SHALL BE SUBMITTED TO OSHPD.

**2. THE FOLLOWING TABLE SETS THE MINIMUM INSTALLATION SPECIFICATION:**

ANCHOR DIA. (in)	WEDGE			
	$h_{ef}$ (in)	MIN. CONC. THICKNESS (in)	MIN. EDGE DISTANCE (in)	MIN. SPACING (in)
1/2	2	4	6	2.75

3. WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRE-STRESSED CONCRETE (PRE- OR POST-TENSIONED), LOCATE THE PRE-STRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED IN ANCHOR.



**GENERAL NOTES**

PRODUCT MODEL NO. 308267

**APPROVALS**

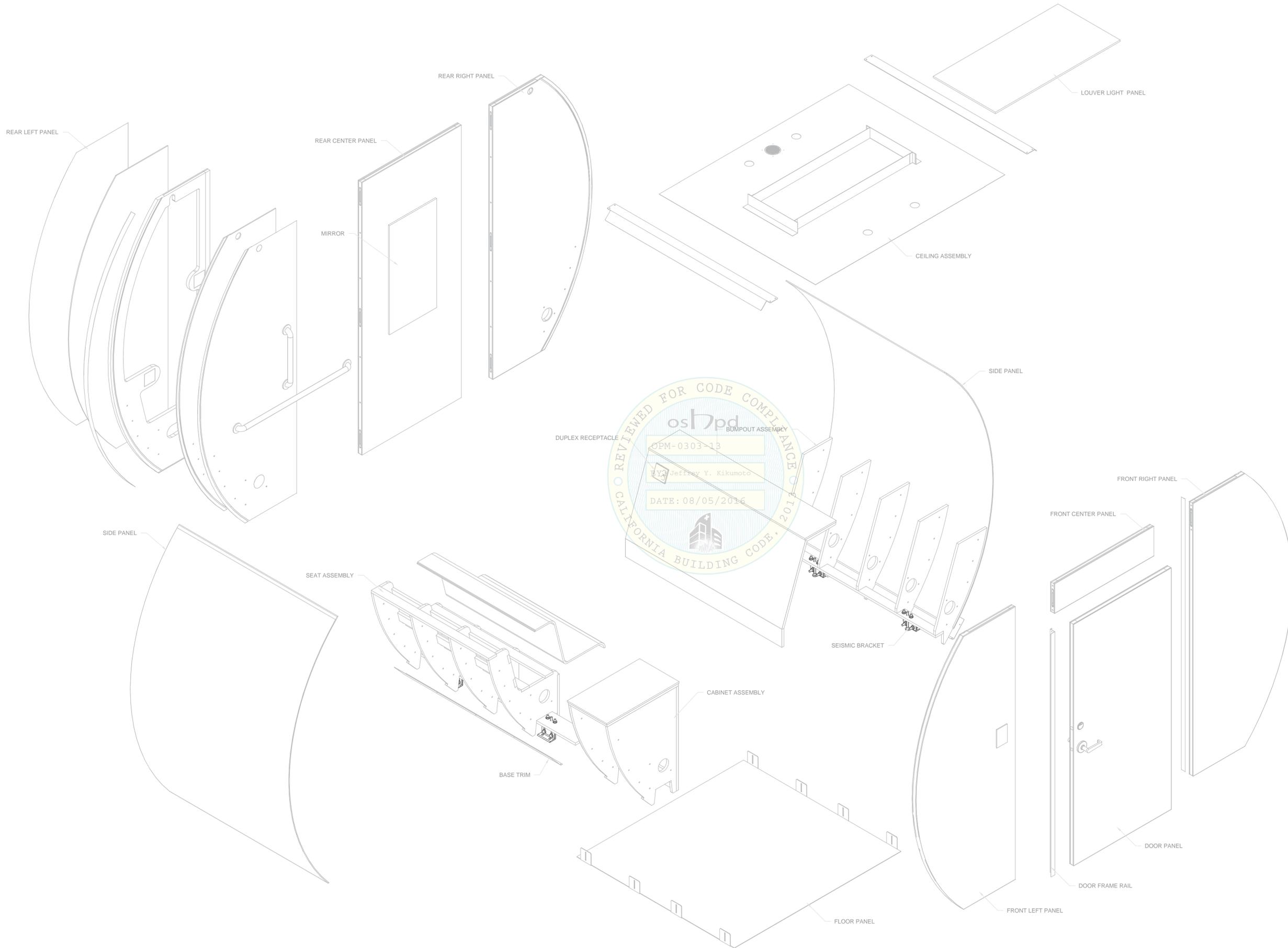
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	2	6/22/16	JPP	ADJUSTED DRAWING TO SPEC
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MAMAVA  
 ADA LACTATION STATION  
 ASSEMBLY

SHEET #: 1 OF 6  
 FILE NO. 308267  
 DRAWING #: S1





APPROVALS

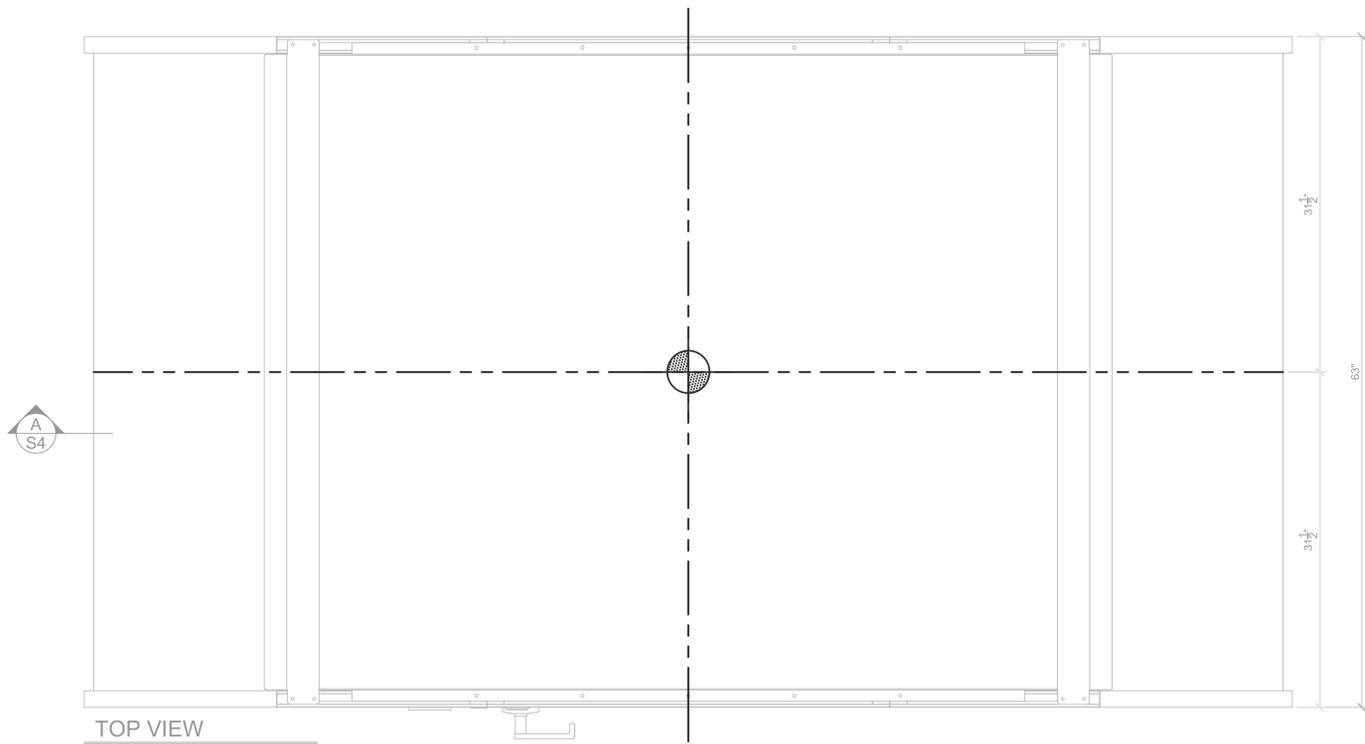
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MAMAVA  
 ADA LACTATION STATION  
 ASSEMBLY

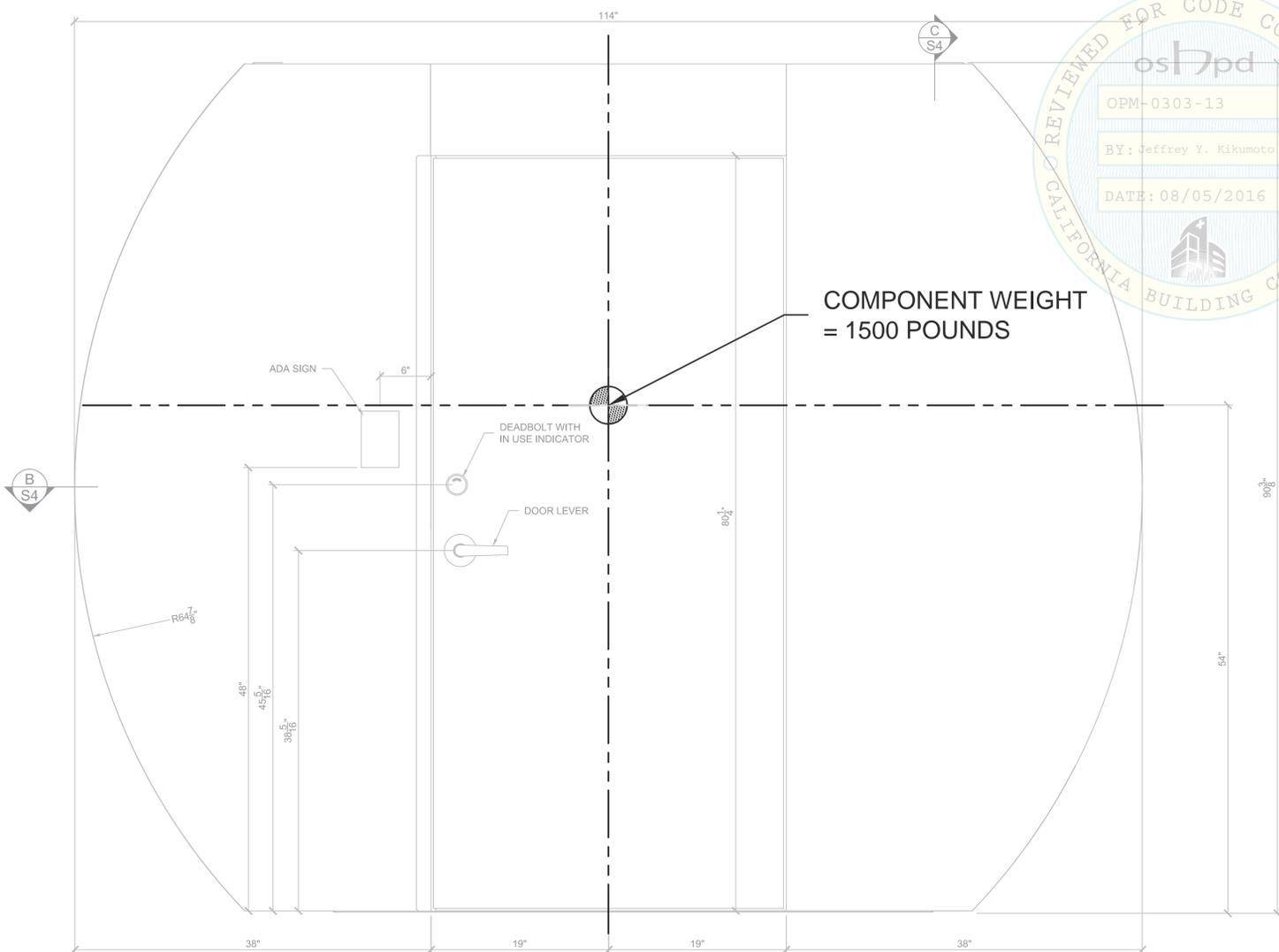
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FILE NO.:	308267
DRAWING #:	S2

PRODUCT MODEL NO. 308267



TOP VIEW

SCALE: 1-1/2" = 1'-0"

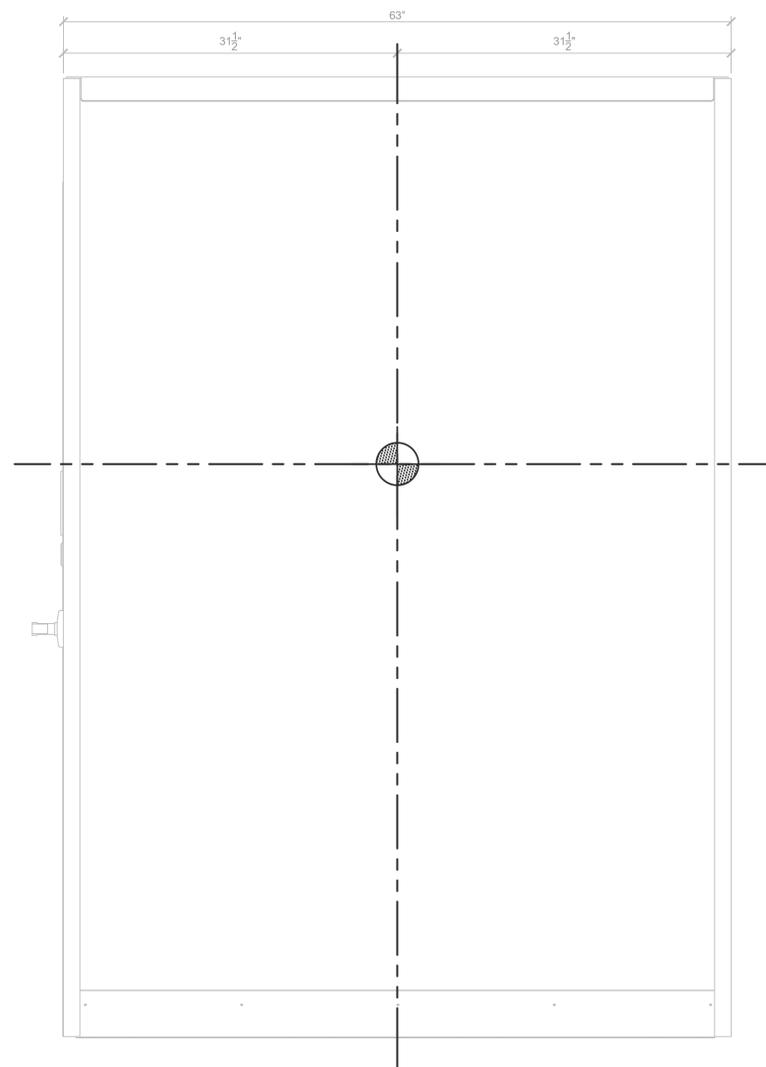


FRONT VIEW

SCALE: 1-1/2" = 1'-0"



COMPONENT WEIGHT  
= 1500 POUNDS



SIDE VIEW

SCALE: 1-1/2" = 1'-0"

MATERIALS	
CODE	DESCRIPTION
WD1	1" PARTICLE BOARD
WD2	3/4" PARTICLE BOARD
WD3	1/2" PARTICLE BOARD
WD4	3/4" D-3 PLYWOOD
PL1	1/32" FORMICA
SS1	1/2" AVONITE WHITE
MT1	1/16" ALUMINUM ALLOY 5053
MT2	09" S.S. W/ #4 BRUSHED FINISH ONE SIDE

APPROVALS	
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SCALE: AS NOTED	

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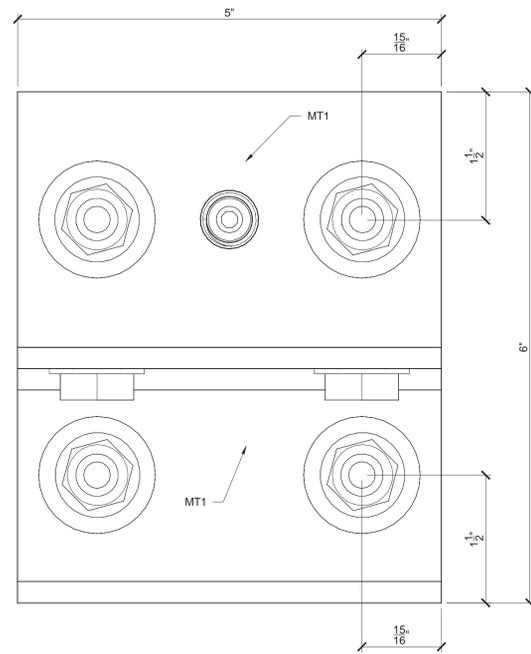
MAMAVA  
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ADA LACTATION STATION  
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SHEET #: 3 OF 6  
FILE NO. 308267  
DRAWING #: S3

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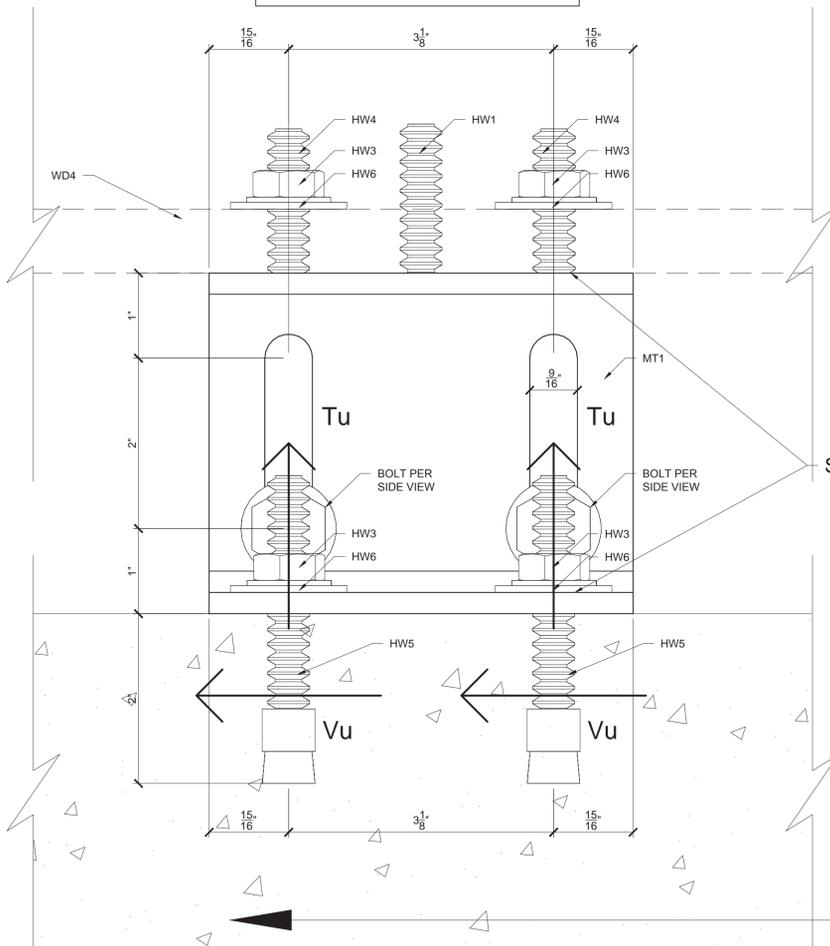




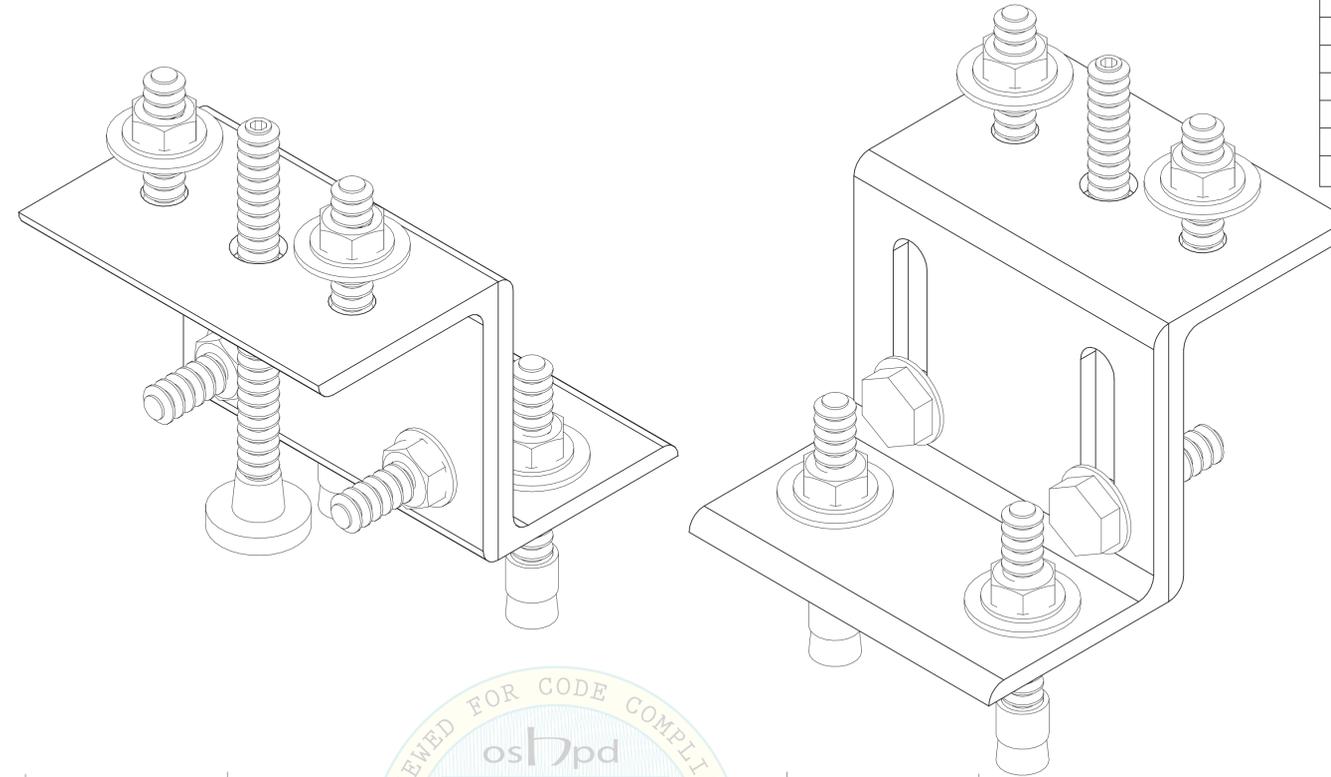


TOP VIEW  
SCALE: 1:1

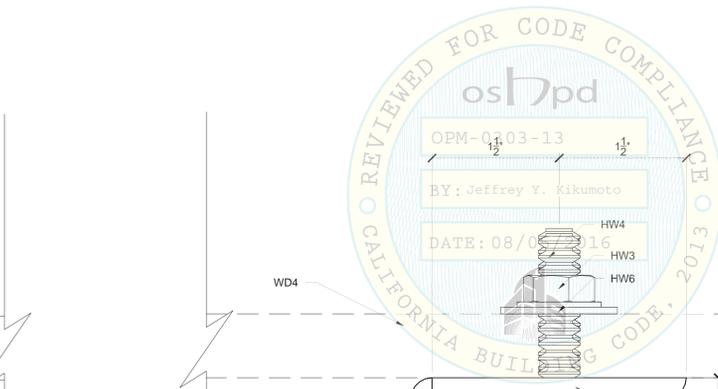
$T_{u \max} = 630 \text{ lbs/bolts (w/ } \Omega_o)$   
 $V_{u \max} = 278 \text{ lbs/bolts (w/ } \Omega_o)$



FRONT VIEW  
SCALE: 1:1

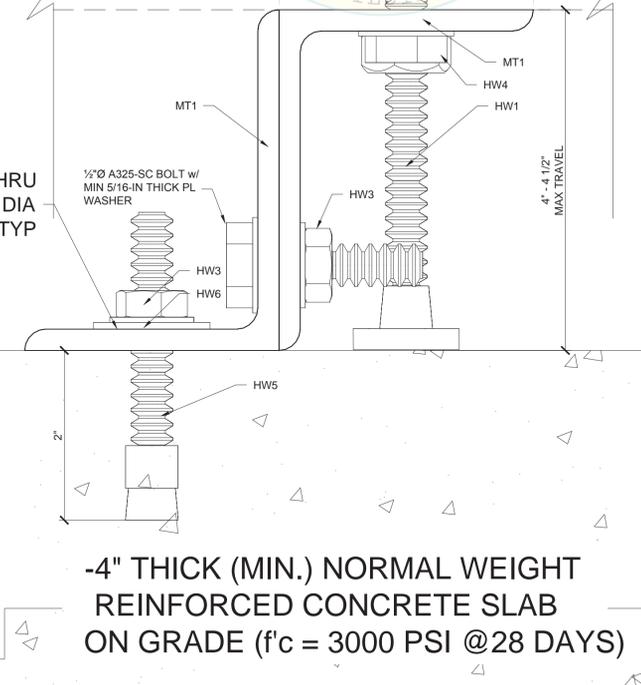


MATERIALS	
CODE	DESCRIPTION
MT1	4" x 3" x 1/4" STEEL ANGLE (LLV)
HW1	5-3/4" TALL W/ 1/2"-13 THREADED TOP ADJUSTABLE LEVELER
HW2	1/2"-13 HIGH HEX NUT
HW3	1/2"-13 HEAVY DUTY NUT WASHER
HW4	2" X 1/2"-13 A307 BOLT
HW5	1/2" HILTI KB-TZ W/2" EMBED IN SLAB (ESR #1917)
HW6	STANDARD CUT PLATE WASHER ASTM F436
WD4	3/4" D-3 PLYWOOD (STRUCT 1)

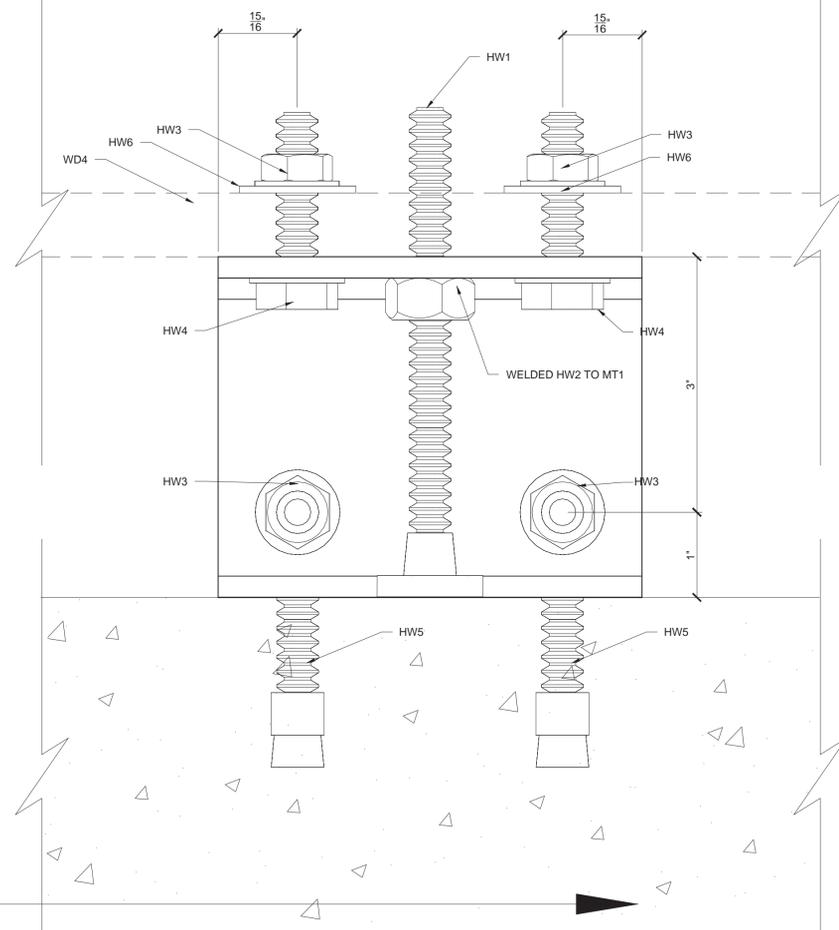


HOLE SIZE THRU STEEL: BOLT DIA +1/16" TYP

-4" THICK (MIN.) NORMAL WEIGHT REINFORCED CONCRETE SLAB ON GRADE ( $f'_c = 3000 \text{ PSI @28 DAYS}$ )



SIDE VIEW  
SCALE: 1:1



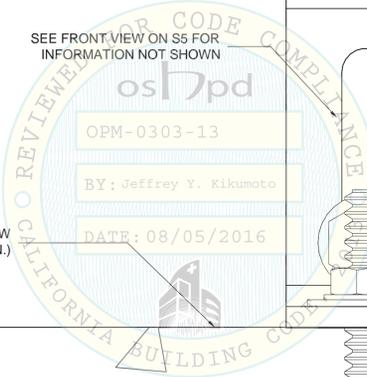
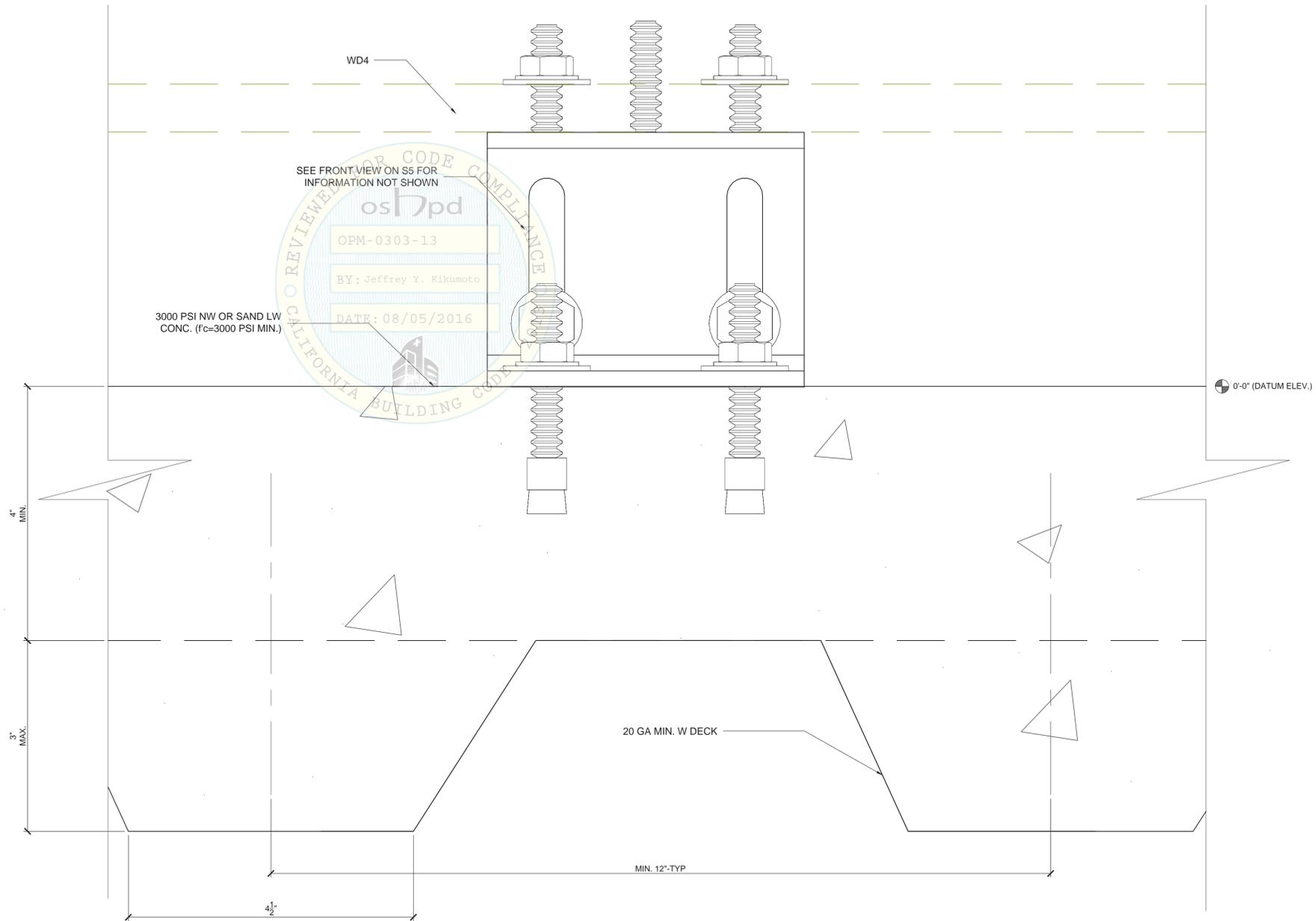
BACK VIEW  
SCALE: 1:1

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MAMAVA  
ANCHORAGE DETAIL  
ADA LACTATION STATION  
SEISMIC BRACKET

SHEET #: 5 OF 6  
FILE NO. 308267  
DRAWING # S5

PRODUCT MODEL NO. 308267



3000 PSI NW OR SAND LW  
CONC. (f'c=3000 PSI MIN.)

SEE FRONT VIEW ON S6 FOR  
INFORMATION NOT SHOWN

WD4

20 GA MIN. W DECK

MIN. 12"-TYP

0'-0" (DATUM ELEV.)

PRODUCT MODEL NO. 308267



APPROVALS	
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SCALE: AS NOTED	

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MAMAVA  
ANCHORAGE DETAIL  
ADA LACTATION STATION  
SEISMIC BRACKET

SHEET #: 6 OF 6  
FILE NO. 308267  
DRAWING # S6