

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD PREAPPROVAL	OFFICE USE ONLY								
OF MANUFACTURER'S CERTIFICATION (OPM)	APPLICATION #: OPM-0231-13								
OSHPD Preapproval of Manufacturer's Certification (OPM)									
Type: ☐ New ☐ Renewal ☐ Update to Pre-CBC 2013 OPA Number:									
Manufacturer Information									
Manufacturer: MacMedical, Inc.									
Manufacturer's Technical Representative: Adam Dunn									
Mailing Address: 820 S. Mulberry Street, Milstadt, IL. 62260									
Telephone: (618) 476-3550 Email: Dadunn@madmedical.com									
Product Information									
Product Name: Triple Stainless Steel Processing Sinks									
Product Type: Laboratory Equipment OPM-0231-13									
Product Model Number: Fixed Height & Adjustable Height									
General Description: Medical use processing sinks and countertop									
DATE: 07/27/2019									
The second secon									
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	person@EASECo.com Planning and Development review fees in								
Signature of Applicant:	Date: 4/29/15								
Title: Principal Engineer Company Name: EASE	E Co.								

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

AAAAMM

os Dpo

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

Page 1 of 2



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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)								
 □ 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 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. Analysis								
OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2013 ONLY								
Signature: Date: 07/27/2015 Print Name: William Staehlin Title: SSE Condition of Approval (if applicable):								

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Page 2 of 2



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-0231-13

THIS PREAPPROVAL CONFORMS TO THE 2013 CALIFORNIA BUILDING CODE

MANUFACTURER: MAC MEDICAL

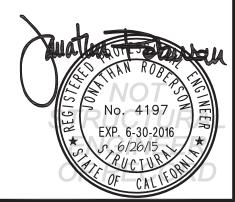
TRIPLE PROCESSING SINK W/ 4" BACKSPLASH

Sheet: 1 of 14 Date: 6/26/15

GENERAL NOTES

EQUIPMENT NAME:

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2013 CBC. THE DEMANDS
- 2. (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2013 CBC
- 3. 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.
- 4. THIS PREAPPROVAL CONFORMS TO THE 2013 CALIFORNIA BUILDING CODE WHERE SDS IS NOT GREATER THAN 0.65, 1.10, 1.30 & 2.20. SEE DETAIL FOR APPLICABILITY
- 4. FORCES PER ASCE 7-10 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE SDS = 0.65, ap = 1.0, lp = 1.5, Rp = 2.5, z/h = 0 AT CONCRETE SLAB. SEE FOLLOWING SHEETS FOR Ω \circ WHERE SDS = 1.10, ap = 1.0, lp = 1.5, Rp = 2.5, z/h = 0 AT CONCRETE SLAB. SEE FOLLOWING SHEETS FOR Ω \circ WHERE SDS = 1.30, ap = 1.0, lp = 1.5, Rp = 2.5, z/h = 0 AT CONCRETE SLAB. SEE FOLLOWING SHEETS FOR Ω \circ WHERE SDS = 2.20, ap = 1.0, lp = 1.5, Rp = 2.5, z/h = 0 AT CONCRETE SLAB & z/h < 1 AT CONCRETE SLAB ON METAL DECK. SEE FOLLOWING SHEETS FOR Ω \circ DATE: 0.7/2.7/2.0.15
- THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- ALL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.
- 7. CONCRETE SLAB ON METAL DECK DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION IN THE BUILDING. (i.e. z/h < 1)
- 8. CONCRETE SLAB ON GRADE DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION BELOW GRADE. (i.e. z/h = 0)
- 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 SLAB 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 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 6hef FROM THIS UNIT'S ANCHORS.



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W/ 4" BACKSPLASH

TRIPLE PROCESSING SINK

11-1511

DATE 6/26/15

JOB NO.

2

14 SHEETS

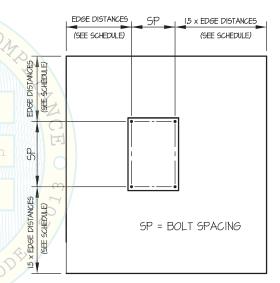
10. EXPANSION ANCHORS:

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

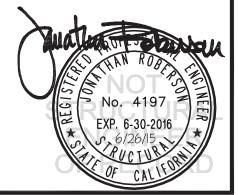
Anchor Diameter	Concrete Type	Min. f'c (psi)	Anchor Type	ICC Report No.	Min. Embed.	Min. Spacing	Min. Edge Dist.	Min. Conc. Thickness	Torque Test	Direct Tension
3/8"	Sand Light Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	2"	N/A	N/A	See Sheet 13 of 14	25 FT-LB	1186 lb
1/2"	Normal Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	2"	8"	12"	4"	40 FT-LB	1605 lb
1/2"	Normal Weight	3000	Hilti Kwik Bolt TZ	ESR-1917	3-1/4"	10"	24"	6"	40 FT-LB	3280 lb

- B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 12 OR 24" (SEE SCHEDULE) AWAY MINIMUM (i.e. CORNER). SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE EDGE DISTANCES.
- C. TESTING OF EXPANSION 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 TORQUE TEST AT LEAST 50% OF
 THE ANCHORS.

 DATE: 07/27/2015
 - (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.
 - TORQUE TEST: THE APPLICABLE TORQUE MUST BE ACHIEVED WITHIN THE FOLLOWING LIMITS: WEDGE TYPE: 1/2 TURN OF THE NUT
 - (iii) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.
- 11. BOLTS THROUGH CONCRETE ON METAL DECK
 - A. BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUTS AFTER THE SNUG TIGHT (THE SNUG-TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQUIRED TO BRING THE CONNECTED PLIES INTO FIRM CONTACT) CONDITION IS ACHIEVED, UNLESS OTHERWISE NOTED.
 - B. THROUGH BOLT HOLES SHALL BE 1/16" LARGER THAN BOLT SIZE (HOLE SIZE = BOLT SIZE + 1/16) FOR CONCRETE.
 - C. THROUGH-BOLTS IN CONCRETE SHALL RECEIVE SPECIAL INSPECTION AND TESTING (THROUGH BOLTS WITH STEEL TO STEEL CONNECTION IN TENSION DO NOT REQUIRE TENSION TESTING) IN ACCORDANCE WITH REQUIREMENTS FOR POST-INSTALLED ANCHORS.



TYPICAL CONCRETE EDGE DETAIL



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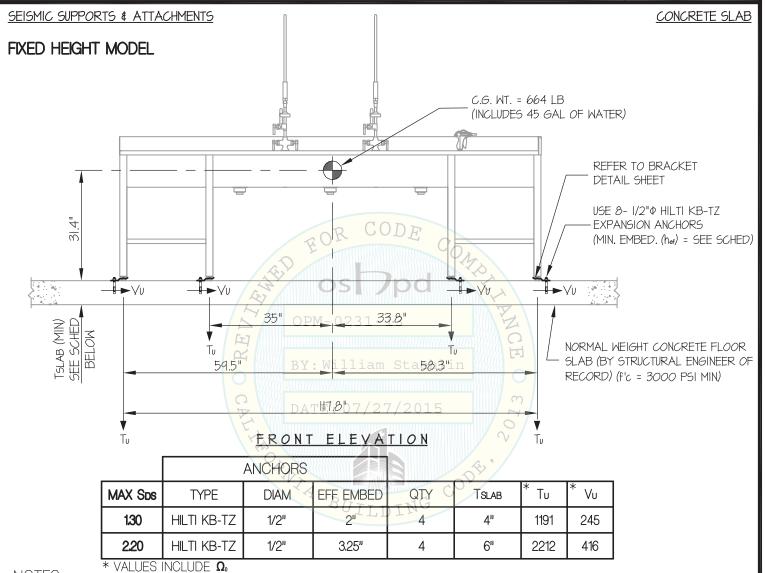
JOB NO. 11-1511

3

TRIPLÉ PROCESSING SINK W/ 4" BACKSPLASH

DATE 6/26/15

_F 14 _{SHEETS}



NOTES:

- 1. FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10 STRENGTH DESIGN IS USED. ($\alpha_p = 1.0$, $p_p = 1.5$, $p_p = 2.5$, $p_p = 2.$
- 2. CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THESE CALCULATIONS ENCOMPASS 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 PRESEN
- 4. SEE GENERAL NOTES: SHEETS 1 AND 2



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4

TRIPLE PROCESSING SINK W/ 4" BACKSPLASH

DATE 6/26/15

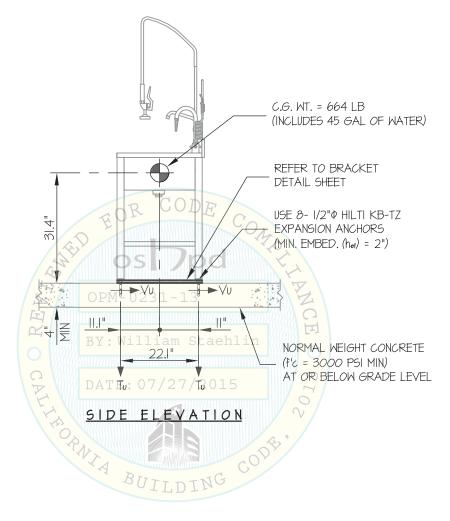
F 14 SHEETS

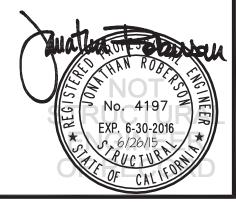
SEISMIC SUPPORTS & ATTACHMENTS

MAX Sps ≤ 1.30

CONCRETE SLAB

FIXED HEIGHT MODEL





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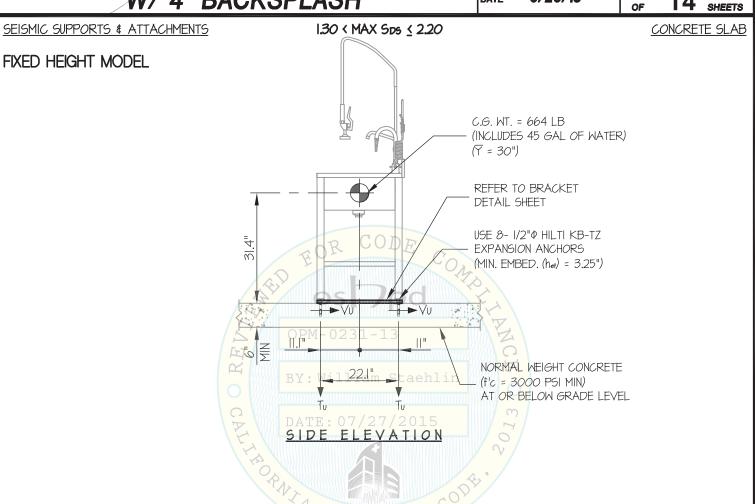
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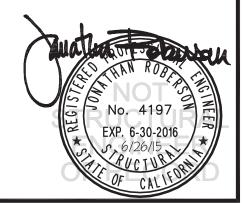
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TRIPLE PROCESSING SINK W/ 4" BACKSPLASH

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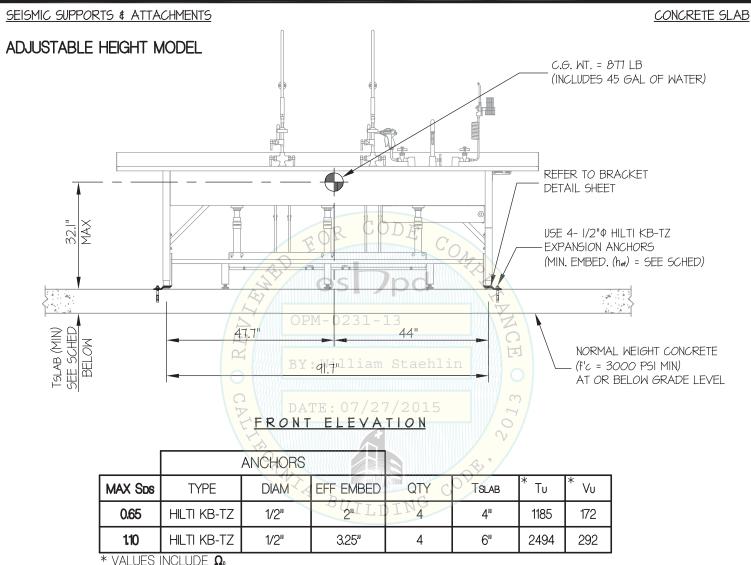
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6

TRIPLÉ PROCESSING SINK W/ 4" BACKSPLASH

DATE 6/26/15

F 14 SHEETS



NOTES:

- 1. FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10 STRENGTH DESIGN IS USED. (2p = 1.0, 1p = 1.5, 1p = 2.5, 2p = 2.5, 2
- 2. CENTER OF GRAVITY (C.G.) AND WEIGHT ARE THE GOVERNING PARAMETERS FOR DESIGN. THESE CALCULATIONS ENCOMPASS 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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7

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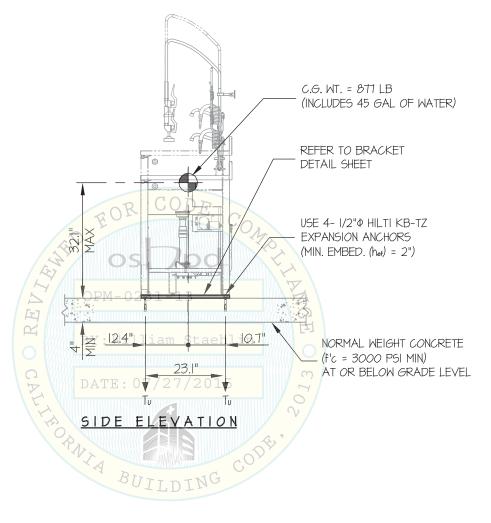
. 14 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

MAX Sps ≤ 0.65

CONCRETE SLAB

ADJUSTABLE HEIGHT MODEL





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DATE

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of 14 SHEETS

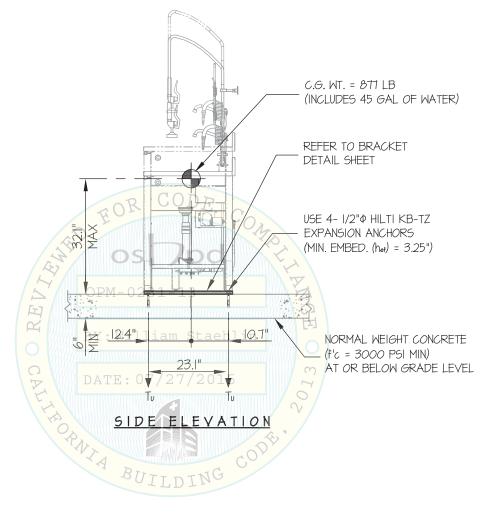
TRIPLE PROCESSING SINK W/ 4" BACKSPLASH

0.65 < MAX S ps ≤ 1.10

CONCRETE SLAB

ADJUSTABLE HEIGHT MODEL

SEISMIC SUPPORTS & ATTACHMENTS





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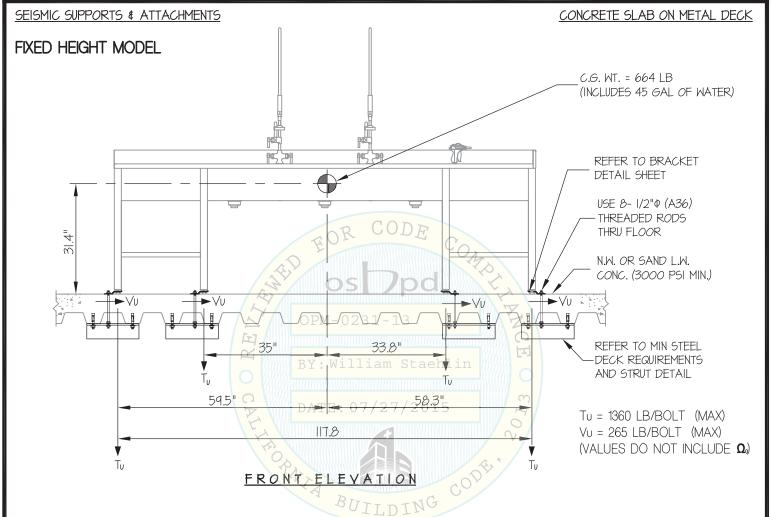
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6/26/15 DATE

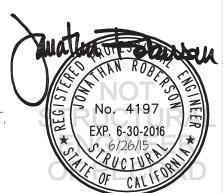


NOTES:

FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10. STRENGTH DESIGN IS USED. (SDS = 2.20, Δp = 1.0, |p| = 1.5, Rp = 25, Ω_0 = 2.5, Z/h < 1)

> HORIZONTAL FORCE (Eh) = 1.58 Wp HORIZONTAL FORCE (Emh) = 3.95 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.
- 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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10

TRIPLE PROCESSING SINK W/ 4" BACKSPLASH

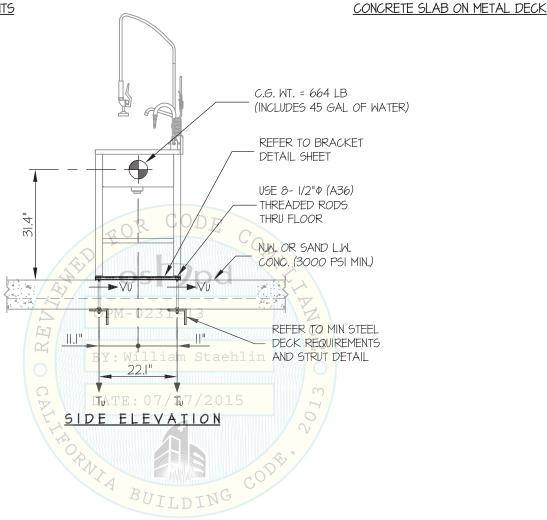
DATE 6/26/15

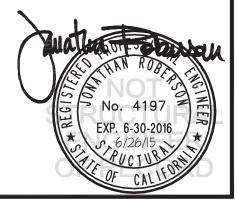
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14 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

FIXED HEIGHT MODEL





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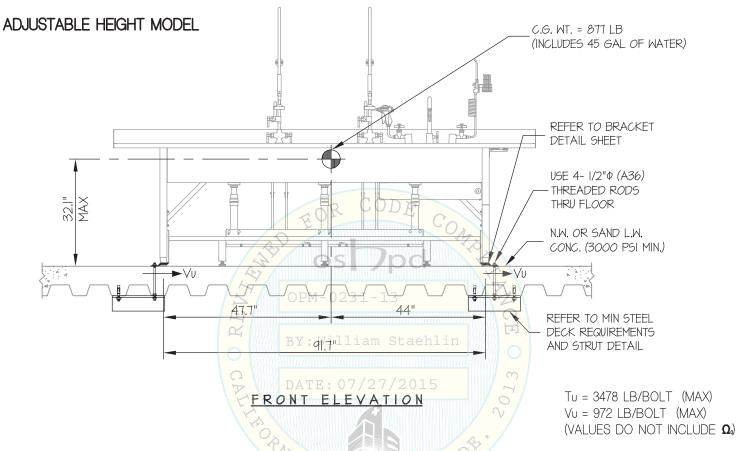
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14 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

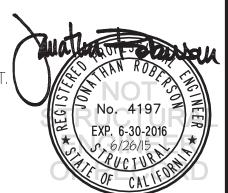
CONCRETE SLAB



1. FORCES ARE DETERMINED PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10 STRENGTH DESIGN IS USED. (SDS = 2.20, 2p = 1.0, 2p = 1.5, 2p = 2.5, 2

HORIZONTAL FORCE (En) = 1.58 Wp HORIZONTAL FORCE (Emh) = 3.95 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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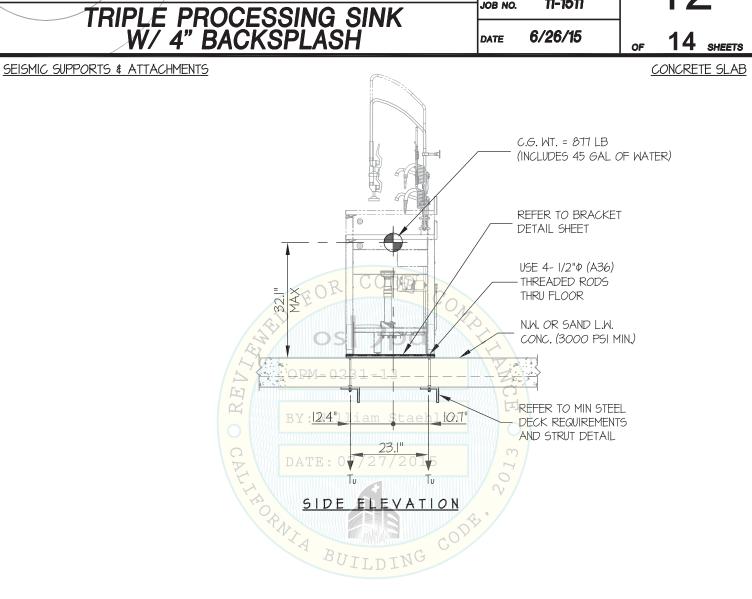
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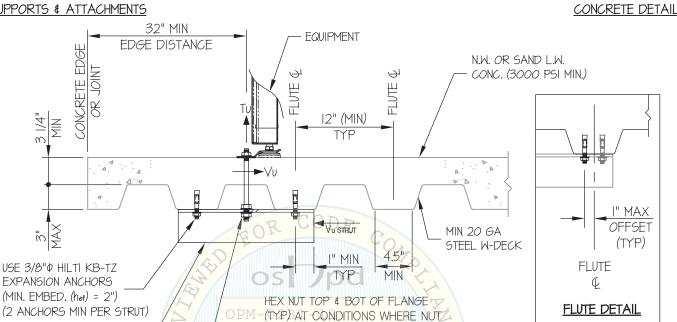
SHEETS

SINGLE PROCESSING SINK W/ 4" BACKSPLASH

SEISMIC SUPPORTS & ATTACHMENTS

L3 X 3 X I/4" X I'-5" MIN

(A36) AT EACH ANCHOR

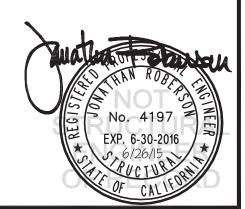


CANNOT BE PROVIDED AT TOP SIDE

OF STRUT, PROVIDE TAPPED HOLE

MIN-STEEL DECK REQUIREMENTS AND STRUT DETAIL

BY: WTHROUGH STRUT FLANGE.



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SHEET

SINGLE PROCESSING SINK W/ 4" BACKSPLASH

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