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

OFFICE USE ONLY
APPLICATION #: OPM-0095-13

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: ☒ New ☐ Renewal ☒ Update to Pre-CBC 2013 OPA Number: 2537-10

Manufacturer Information

Manufacturer: Hologic

Manufacturer's Technical Representative: Ken DeFreitas, Sr. Staff Mechanical Engineer

Mailing Address: 36 Apple Ridge Road, Danbury, Ct 06810

Telephone: 203-731-8309 Email: ken.defreitas@Hologic.com

Product Information

Product Name: Dimensions AWS Console

Product Type: Mammography Systems

Product Model Number:

General Description: Breast imaging system operator control console.

Applicant Information

Applicant Company Name: Hologic

Contact Person: Ken DeFreitas, Sr. Staff Mechanical Engineer

Mailing Address: 36 Apple Ridge Road, Danbury, Ct 06810

Telephone: 203-731-8309 Email: ken.defreitas@Hologic.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: 5-1-14

Title: Sr. Staff Mechanical Engineer Company Name: Hologic

Registered Design Professional Preparing Engineering Recommendations

Company Name: Don Lee Engineering

Name: Donald E. Lee California License Number: SE 2311

Mailing Address: 21008 Sylvanwood Ave., Lakewood, Ca 90715

Telephone: 562-860-7896 Email: donleese@aol.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

☐ 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: October 07, 2014

Print Name: Jeffrey Y. Kikumoto

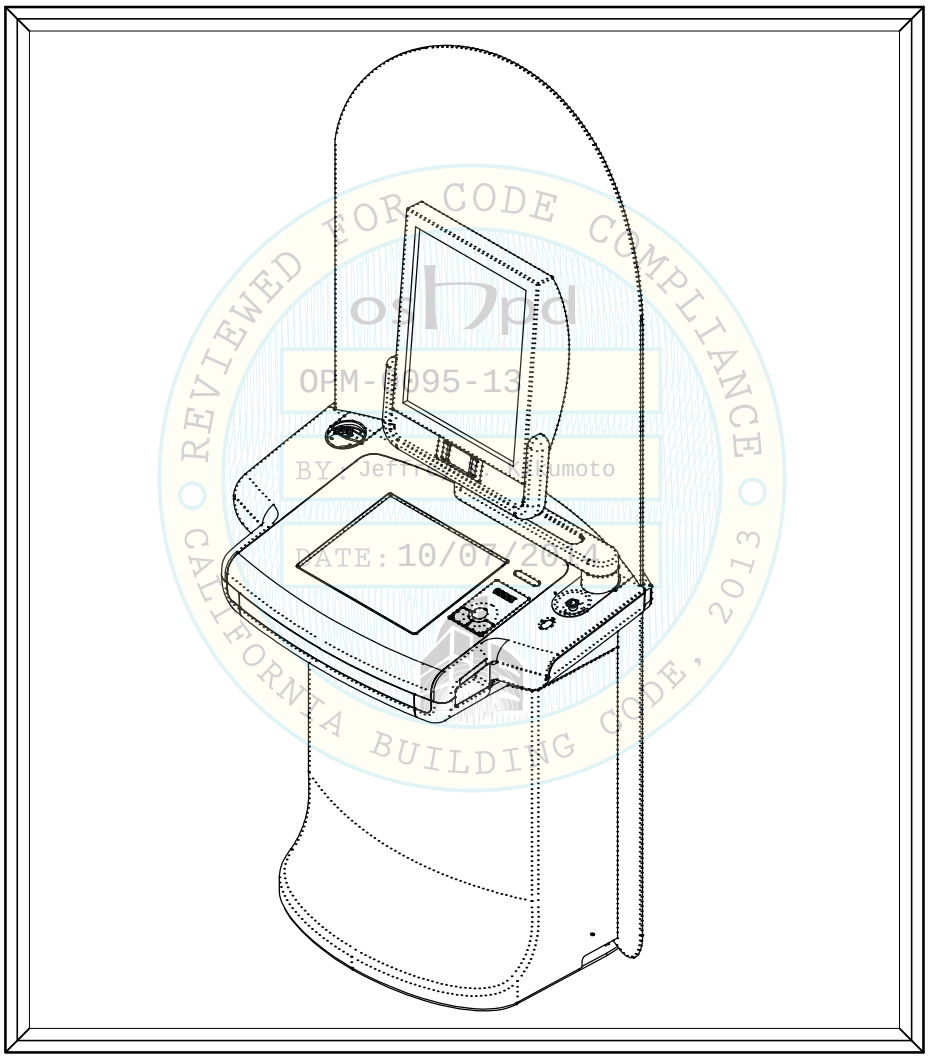
Title: Senior Structural Engineer

Condition of Approval (if applicable):

Don Lee Engineering

21008 Sylvanwood Ave.
Lakewood, Ca 90715
562-860-7896
Donald E. Lee Structural Engineer #2311

OPM-0095-13
Hologic Dimensions AWS Console
Attachment Forces & Details



Prepared by
Don Lee S. E. #2311
Signed 10-05-2014

REGISTERED PROFESSIONAL ENGINEER
DONALD E. LEE
SE 2311
EXP 12/31/15
STRUCTURAL
STATE OF CALIFORNIA

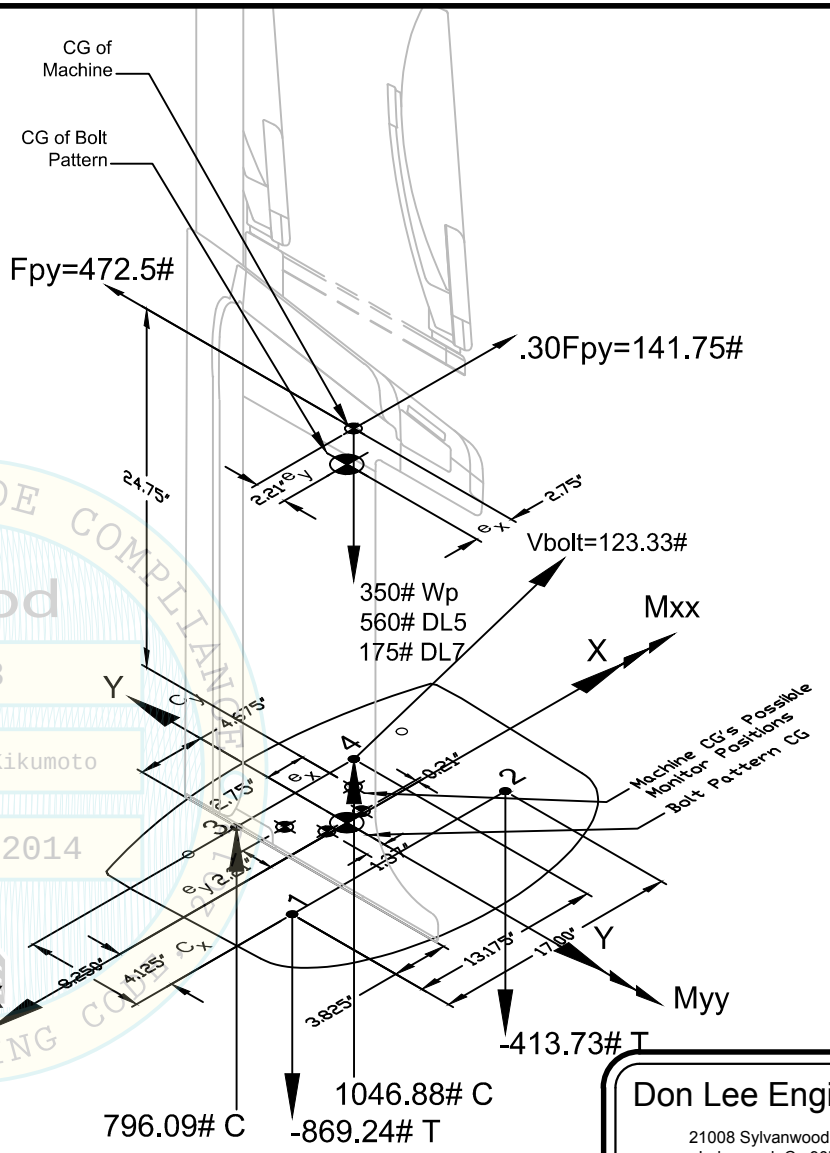
Coordinates			Properties	
Location	X	Y	I_{xx}	68.26 In^4
1	0.00"	0.00"	I_{yy}	188.41 In^4
2	17.00"	0.00"		
3	3.83"	8.25"		
4	13.18"	8.25"	Z	
cg	8.50"	4.125"	24.75"	

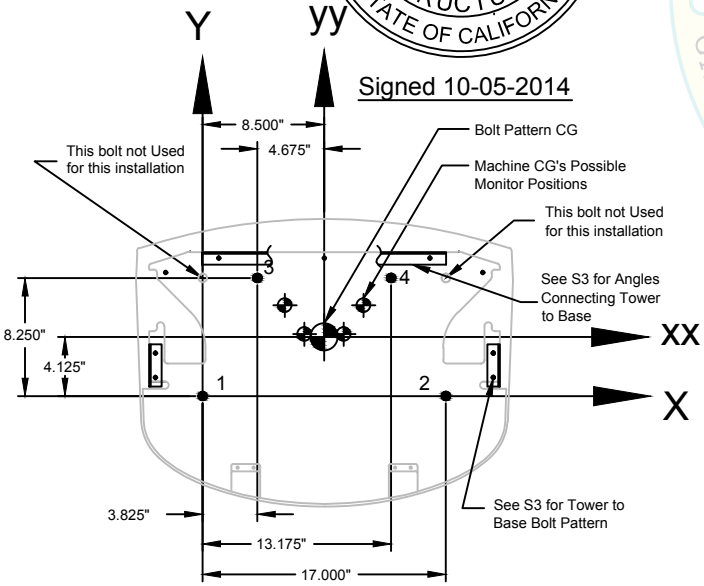
1. This pre-approval covers only the supports & attachments of the unit to the structure based on the relation of the Cg and bolt pattern shown at the right.

2. The details in this pre-approval may be used at any location in the state of California where Sds is <=2.00

3. The forces shown using Strength Design were obtained from ASCE 7-10 Using Eqn's. 13.3-1,2,3 and Load Combinations 5 & 7 from Section 12.4.3.2 with these parameters:
Wp=350 Lbs. Sds=2.00
Ip=1.5 z=0 h=1.0
Z/h=0 At Grade
ASCE 7-10 Table 13.6-1:
Other Mechanicl or Electrical Equipment,
a_p=1.0 Rp=1.5 Ω_0=1.5

4. This pre-approval encompasses all of the weights and Cg locations up to those shown. V070714





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OPM-0095-13
Hologic Dimensions AWS Console

Don Lee Engineering
21008 Sylvanwood Ave.
Lakewood, Ca 90715
562-860-7896

Project: HL-2013
Date: September 17, 2014
Scale: None

S0

2 of 5 10/5/14

EXPANSION BOLTS

Version 12-18-2014

1. CONCRETE ANCHORS SHALL BE:
HILTI KB-TZ-ESR1917,Corrected August, 2014

2. INSPECTION AND TESTING OF EXPANSION BOLTS SHALL COMPLY WITH 2013 CBC Section 1913A.7 USING THE TORQUE WRENCH METHOD AND IN ACCORDANCE WITH THE PROCEDURES BELOW.

3. TORQUE WRENCHES SHALL BE FLAT OR ROUND BEAM TYPE CALIBRATED BY AN APPROVED LABORATORY IN ACCORDANCE WITH ACCEPTED PROCEDURES.

4. THE BOLTS SHALL BE INSTALLED AS DESCRIBED IN THE APPLICABLE ICC-ESR REPORT.

5. 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.

6. THE HOLES SHALL NOT BE DRILLED UNTIL THE BOLTS TO BE USED ARE ON SITE.

7. INSPECTOR SHALL MEASURE THE LENGTH OF THE BOLTS AND ENSURE THAT THEY ARE THE PROPER PART NUMBER AND LENGTH SHOWN IN DETAIL 3/S3.

8. OBSERVE THE DRILLING OF THE HOLES AND MEASURE THE ACTUAL DEPTH.

9. IF THE HOLE DEPTH EXCEEDS THAT SHOWN IN DETAIL 3/S3, CARE SHALL BE TAKEN WHEN DRIVING THE BOLTS INTO THE HOLES SO THAT THE EXTENSION OF THE BOLT ABOVE THE SURFACE IS AS SHOWN IN DETAIL 3/S3.

10. **INITIAL INSTALLATION**: TIGHTEN ALL ANCHORS ON EACH UNIT TO THE SPECIFIED TORQUE AND HOLD IT FOR 2 MINUTES. THE NUT SHALL NOT CONTINUE TO TURN. THE REQUIRED TORQUE SHALL BE REACHED WITHIN THE NUMBER OF TURNS AND/OR STICK OUT SHOWN IN DETAIL 3/S3.

11. **FINAL TEST A MINIMUM 24 HOURS AFTER INITIAL INSTALLATION.** THE NUTS SHALL REACH THE REQUIRED TORQUE WITHIN $\frac{1}{2}$ TURN.

12. BOLT HOLES MAY NOT BE REUSED. MINIMUM DISTANCE BETWEEN NEW BOLT AND ABANDONED HOLE SHALL BE 1-$\frac{1}{2}$". OLD HOLE SHALL BE FILLED WITH NON-SHRINK GROUT.

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GENERAL NOTES:

Version7-7-14

THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION IS BASED ON THE CBC 2013. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013.

ALL CONSTRUCTION SHALL COMPLY WITH THE CBC 2013 & ITS REFERENCED STANDARDS.

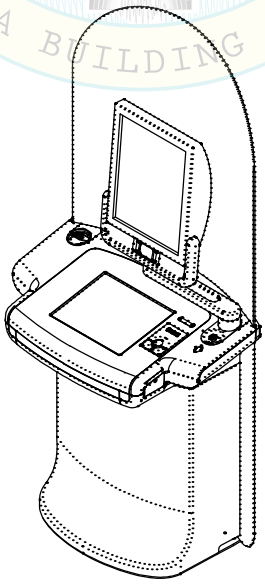
THE SEISMIC ATTACHMENTS SHOWN ON THESE PLANS COMPLIES WITH THE PROVISIONS OF 2013 CBC 1909A FOR THE QUALIFICATION, DESIGN AND USE OF POST-INSTALLED ANCHORS IN CONCRETE.

THE CONTRACTOR SHALL VERIFY THAT THE SITE CONDITIONS ARE SUITABLE FOR INSTALLATION OF THE EQUIPMENT AS SHOWN ON THESE DRAWINGS AND ANY OTHER APPLICABLE PROJECT DRAWINGS. IF ANY PROBLEMS ARE FOUND, THE PERSON RESPONSIBLE FOR THE PROJECT SHALL BE NOTIFIED IN WRITING LISTING THE PROBLEMS.

LOCATE ALL REINFORCEMENT, CONDUIT, PIPES OR OTHER ITEMS IN THE CONCRETE SLAB PRIOR TO DRILLING THE BOLT HOLES. NOTIFY PERSON IN CHARGE OF THE PROJECT BEFORE CONTINUING IF ANY INTERFERENCE IS FOUND.

THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CONSTRUCTION SAFTEY PROCEDURES.

WHEN THE TEST LAB IS CALLED TO THE SITE, A REPORT MUST BE FILED STATING THE REASON FOR THE CALL AND THE DISPOSITION OF THE CALL.



The Structural Engineer of Record Shall:

Version 7-7-14

1. Verify the equipment is anchored to a normal weight concrete slab at grade (Minimum T=4" f'c=2500 Psi), located such that adequate bolt strength and foundation size are provided. The anchors shall meet the requirements of the applicable ICC-ESR.

2. Verify that the anchors are an adequate distance from any slab edge, opening or control joint. (see Detail 1/S2).

3. Verify that all new or existing anchors are an adequate distance from the anchors shown in this pre-approval. SEOR shall verify that there is no adverse interaction where other anchors are within 18" from this unit's anchors.

4. Verify that the installation is in conformance with the 2013 CBC, that the site specific values of S_{DS} & z/h do not exceed the values shown on Sheet S0, and with the details shown in this pre-approval. 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 pre-approval documents.
Provide any support structure required to support the weights and forces shown in addition to all other required loads.

This pre-approval covers only the supports and attachments of the unit to the structure based on the relation of the Cg and bolt pattern shown on S0.

Hologic Dimensions AWS Console

All Items shown are Integral with Console Except the Expansion Bolts

OPM-0095-13

Don Lee Engineering
21008 Sylvanwood Ave.
Lakewood, Ca 90715
562-860-7896

Project: DLE-(A)-014
Date: September 17, 2014
Scale: None

S1

3 of 5 10/5/14

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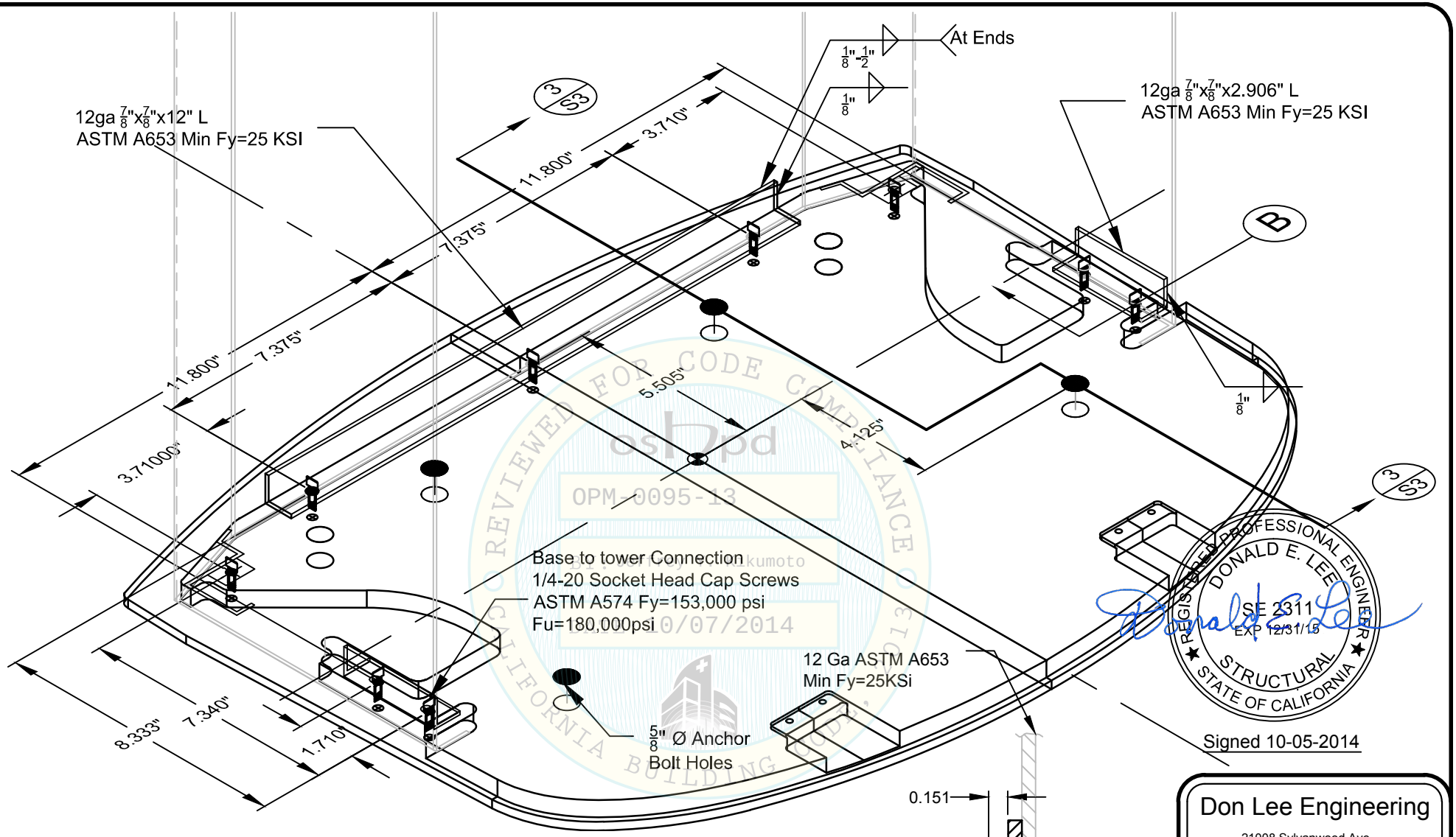

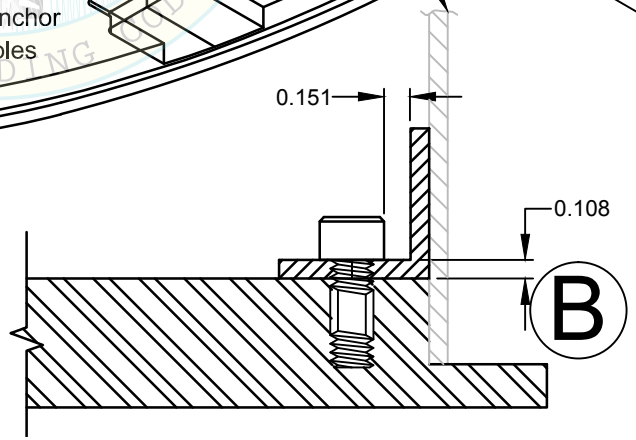

Dimensions AWS Console
Structural Schematic

Don Lee Engineering
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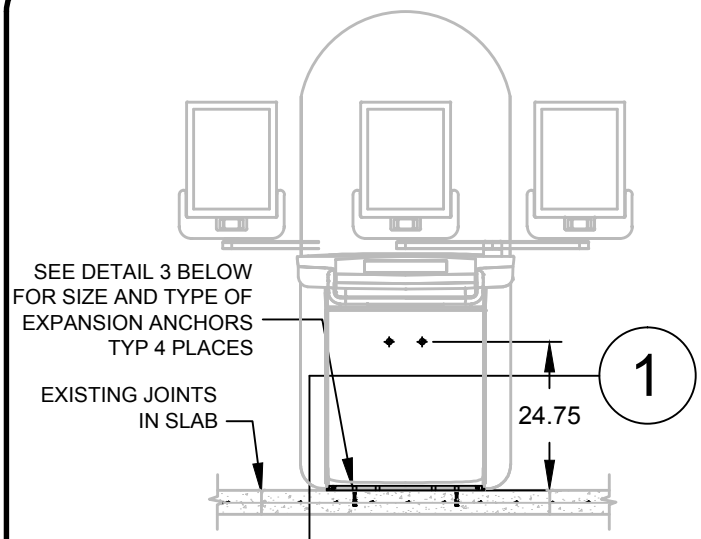
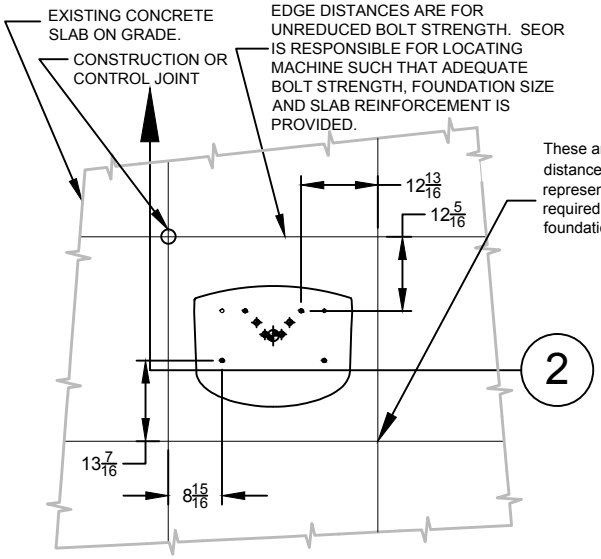
Project	HL-2013
Date	September 17, 2014
Scale	None

S2

4 of 5 10/5/14



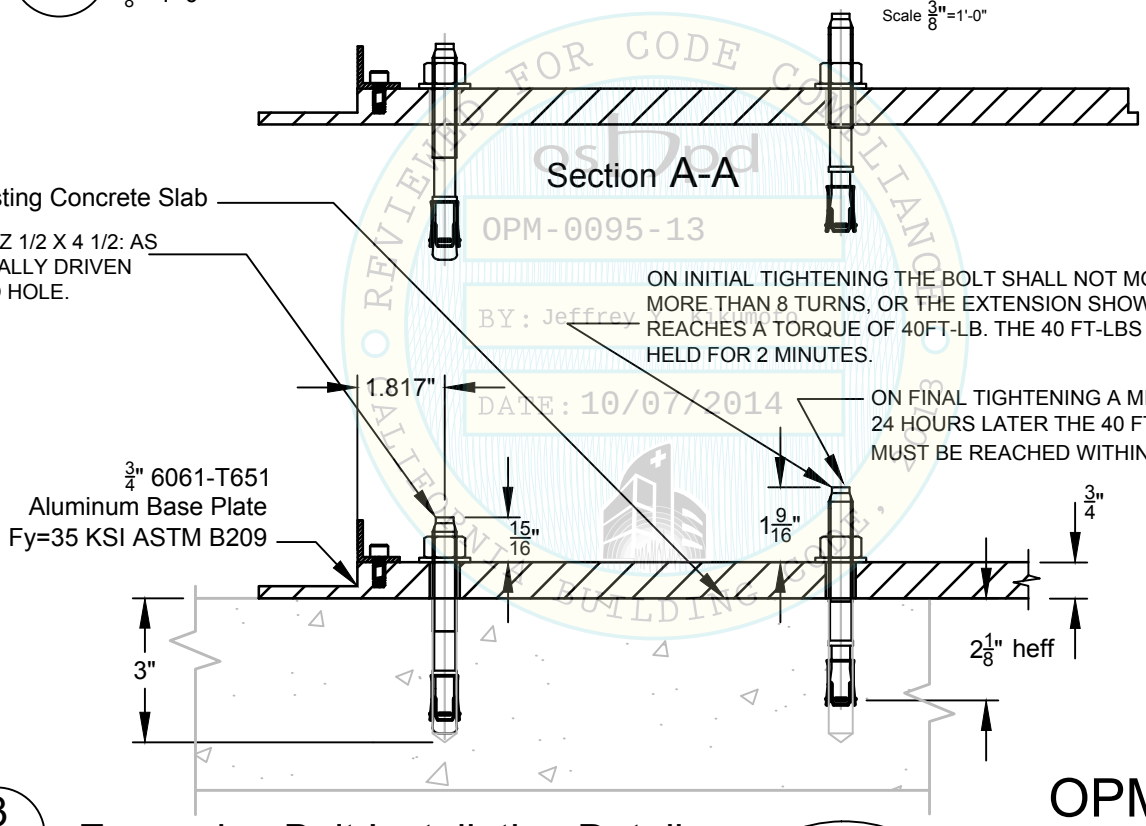


2 DIMENSIONS AWS CONSOLE

3/8"=1'-0"

1 DIMENSIONS AWS CONSOLE INSTALLED ON EXISTING CONCRETE SLAB. MINIMUM: 4" THICK,NORMAL WT., f'c=2500 PSI

Scale 3/8"=1'-0"



3/S2 Expansion Bolt Installation Details

Scale 3"=1'-0"

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Date: September 17, 2014
Scale: None

S3

5 of 5 10/5/14

Hologic Dimensions AWS Console