



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

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

OFFICE USE ONLY

APPLICATION #: OPM-0046-13

OSHPD Preapproval of Manufacturer's Certification (OPM)

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

Manufacturer Information

Manufacturer: Quantum Storage Systems

Manufacturer's Technical Representative: Charlie Nicely- Dean Cohen

Mailing Address: 15800 NW 15 AVE Miami, FL 33169

Telephone: 800-685-4665

Email: dean@quantumstorage.com

Product Information

Product Name: Chrome Wire

Product Type: Wire shelving products and accessories

Product Model Number: _____

General Description: All welds wire shelves and posts create sturdy shelving systems with flexibility to add or remove shelves when needed



Applicant Information

Applicant Company Name: Seizmic Inc.

Contact Person: Meredith Young

Mailing Address: 161 Atlantic st. Pomona, CA 91768

Telephone: 909-869-0989

Email: OPERATIONS@SEIZMICINC.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: _____


Meredith Young

Date: 7-01-2013

Title: Operations assistant

Company Name: Seizmic INC





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

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY
OSH-FD-700 (REV 5/30/13)

Page 2 of 2

Registered Design Professional Preparing Engineering Recommendations

Company Name: Seismic INC.

Name: Sal Fateen California License Number: 25969

Mailing Address: 161 Atlantic st. Pomona Pomona, CA 91768

Telephone: 909-869-0989 Email: OPERATIONS@SEIZMICINC.COM

OSHPD Special Seismic Certification Preapproval (OSP)

- Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required)
- Special Seismic Certification is no preapproved

Certification Method(s)

- Testing in accordance with: ICC-ES AC156 FM 1950-10
- Other* (Please Specify): OPM-0046-13

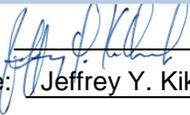
*Use of criteria other than those adopted by the California Building Standards Code, 2013 (CBSC 2013) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 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): _____

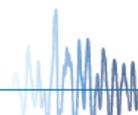
OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2013 ONLY

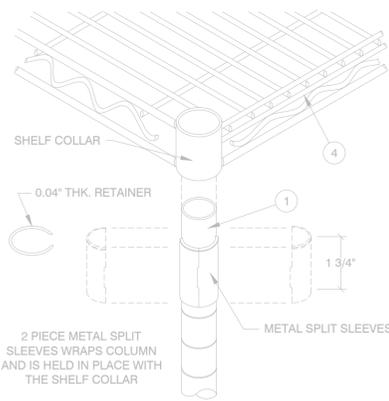
Signature:  Date: December 11, 2013

Print Name: Jeffrey Y. Kikumoto

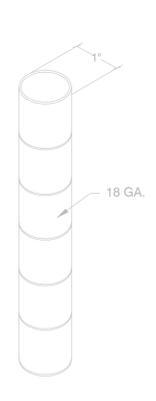
Title: Senior Structural Engineer

Condition of Approval (if applicable): _____

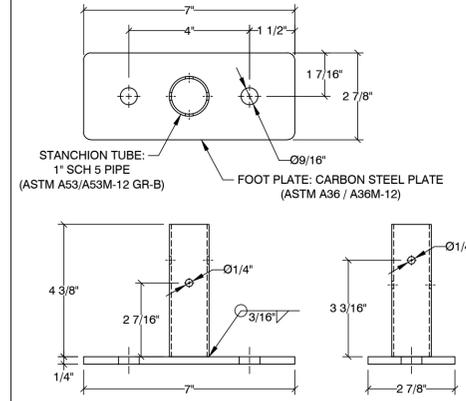




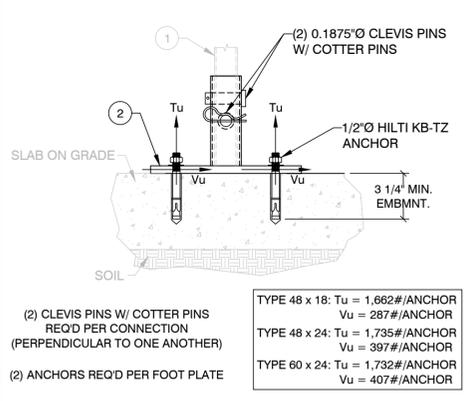
1-TYPICAL SHELF TO POST CONNECTION DETAIL



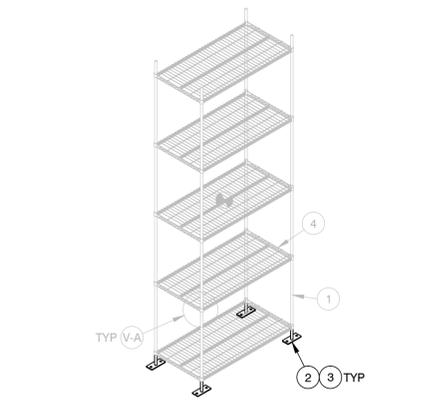
1-TYPICAL POST



2-FOOT PLATE



3-ANCHOR



A-GENERAL CONFIGURATION

GENERAL NOTES:
 1. THIS OSHPD PREAPPROVAL 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. THIS PREAPPROVAL CONFORMS TO THE 2013 CBC WHERE SDS IS NOT GREATER THAN 2.5
 3. FORCES ARE PER ASCE 7-10 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3 WHERE SDS = 2.5, ap = 1.0, lp = 1.5, Rp = 2.5, Qo = 2.5 & z/h = 0.0 AT CONCRETE SLAB ON GRADE ONLY.
 4. THIS PRE-APPROVAL COVERS THE SUPPORTS AND ATTACHMENTS OF THE UNIT TO THE HOSPITAL BUILDING'S STRUCTURE. THE UNIT, INCLUDING THE FOOTPLATE, IS SUPPLIED BY QUANTUM. THE EXPANSION ANCHORS SHOWN ON THE DRAWINGS SHALL BE SUPPLIED & INSTALLED BY THE CONTRACTOR.
 5. ALL DESIGN FORCES SHOWN ON THE DRAWINGS ARE FACTORED LOADS THAT SHALL BE USED FOR STRENGTH DESIGN.
 6. STORAGE CAPACITY: TYPE 48 x 18 = 140# PER LEVEL
 TYPE 48 x 24 = 198# PER LEVEL
 TYPE 60 x 24 = 200# PER LEVEL

MATERIAL REQUIREMENTS:
 CLEVIS PIN: 0.1875" O Fy = 36,000 PSI, GRADE 36.
 FOOTPLATE: CARBON STEEL PLATE (ASTM A36/A36M-12)
 FOOTPLATE SLEEVE (VERTICAL TUBE): 1" SCH. 5 PIPE (ASTM A53/A53M-12 GR-B) WELD: E60XX
 ALL BOLTS: A307 (UNLESS OTHERWISE NOTED).
 ANCHORS: HILTI KWIK BOLT TZ, ICC #ESR-1917.
 CONCRETE: 6" THICK
 NORMAL WEIGHT
 fc = 3,000 PSI.

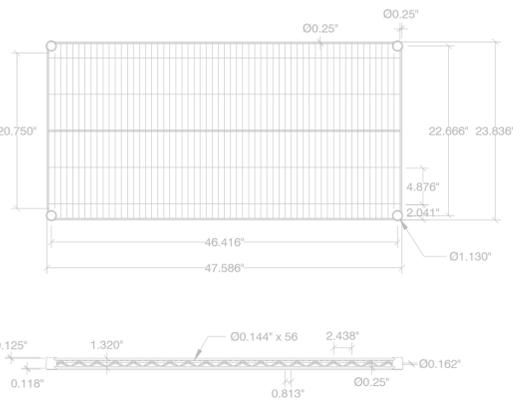
RESPONSIBILITIES OF THE SEOR OF THE BUILDING:
 1. PROVIDE SUPPORTING STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN IN ADDITION TO ALL OTHER LOADS.
 2. VERIFY INSTALLATION IS IN CONFORMANCE WITH THE 2013 CBC AND WITH THE DETAILS.
 3. VERIFY THAT PROJECT SPECIFIC VALUES OF SDS & z/h RESULTS IN SEISMIC FORCES (Eh & Ev) THAT DO NOT EXCEED THE VALUES ON THE DETAILS.
 4. VERIFY THAT THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ANCHORED MEETS THE REQUIREMENTS OF THE APPLICABLE ICC-ESR
 5. VERIFY THAT THE ANCHORS ARE AT ADEQUATE DISTANCES FROM ANY SLAB EDGE OR OPENINGS (REFER TO DETAIL 6)
 6. VERIFY THAT ALL NEW OR EXISTING ANCHORS ARE AN ADEQUATE DISTANCE FROM THE UNIT ATTACHMENTS & CHECK FOR INTERACTION WHERE OTHER ANCHORS ARE WITHIN 18" OR 6H FROM THIS UNITS ANCHORS.

EXPANSION ANCHORS:
 PER ESR-1917 & ACI 318-11

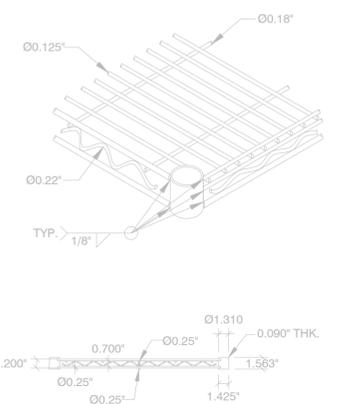
ANCHOR DIA. (IN)	CONC. TYPE	MIN Fc (PSI)	MIN Fc ANCHOR TYPE	MIN. EMBED. (IN)	MIN. SPACING (IN)	MIN. EDGE DIST. (IN)	MIN. THICKNESS (IN)	CONC. THICKNESS (IN)
1/2	NORMAL	3,000	KB-TZ	1917	3 1/4"	4"	7"	6"

TORQUE DIRECT TEST (LBS) TENSION (LBS)
 40 LBS-FT 2,944 LBS

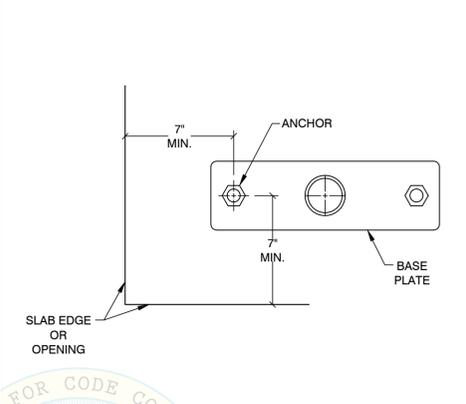
NOTES:
 1. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES 7" AWAY FROM MINIMUM FROM CORNER (2 DIRECTIONS)
 2. TESTING OF EXPANSION ANCHORS PER 2013 CBC 1913A.7; TENSION TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO OSHPD.
 a. AFTER 24 HOURS MINIMUM HAVE ELAPSED SINCE INSTALLATION, DIRECT PULL TENSION TEST AT LEAST 50% OF THE ANCHORS.
 b. ACCEPTANCE CRITERIA:
 1. DIRECT TENSION TEST; ANCHOR SHALL HAVE NO OBSERVABLE MOVEMENT AT THE TEST LOAD. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER BECOMES LOOSE.
 2. TORQUE TEST; THE APPLICABLE TORQUE FOR TORQUE CONTROLLED EXPANSION ANCHOR SHALL BE ACHIEVED WITHIN THE 1/2 TURN OF THE NUT.
 c. IF ANY ANCHOR FAILS, TEST ALL ANCHORS.



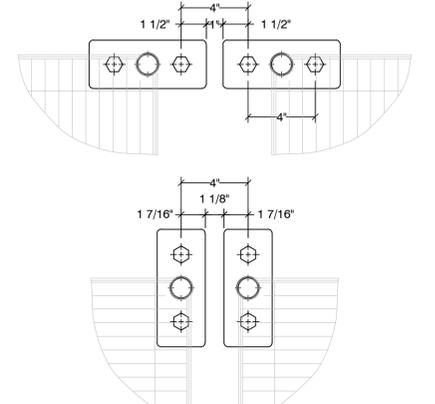
4-SHELF



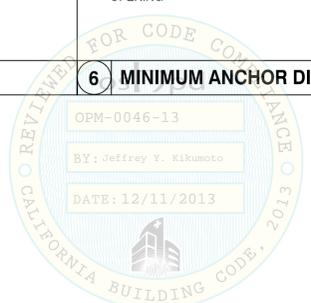
5-LOAD PLACARD



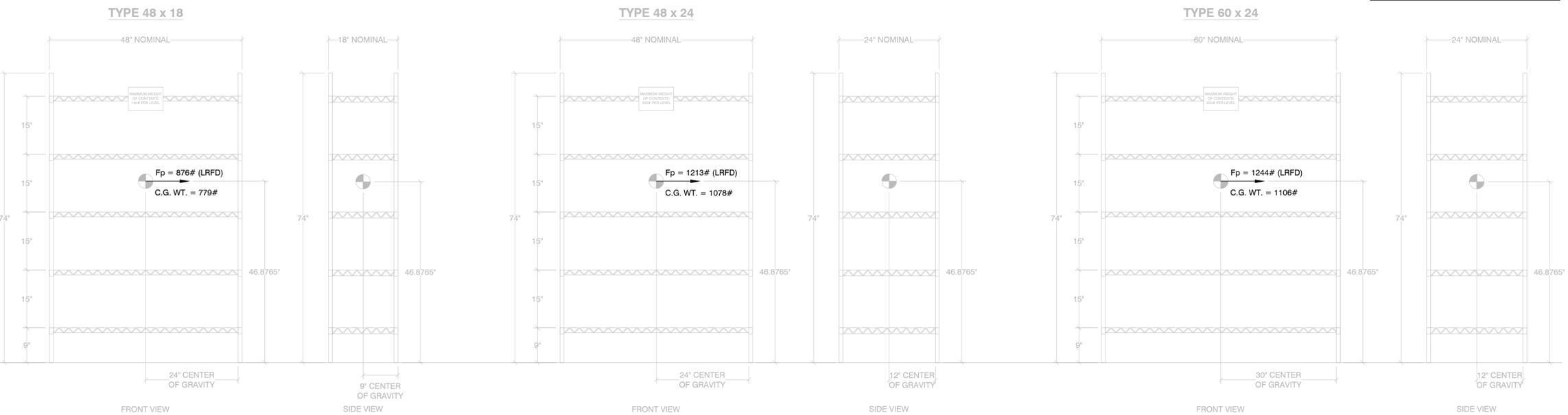
6-MINIMUM ANCHOR DISTANCE DETAIL



7-MINIMUM ANCHOR SPARATION DETAIL



NOTE:
 DESIGN BASED ON:
 Sds = 2.5
 I = 1.5
 z/h = 0.0
 ap = 1.0
 Rp = 2.5
 Qo = 2.5
 GROUND FLOOR INSTALLATION
 SLAB ON GRADE ONLY



LIGHT DUTY STORAGE FIXTURE ELEVATIONS

ADDRESS: QUANTUM STORAGE SYSTEMS

REV.	DATE	BY	DESCRIPTION

REV.	DATE	BY	DESCRIPTION

SEIZMIC ENGINEERING, INC.
 EST. 1985
 161 Atlantic Street
 Pomona, California 91768
 Tel: (909) 869-0989
 Fax: (909) 869-0981

DRAWN BY: M.V. / A.M.
 DATE: 04/16/13
 LAST REV BY:
 REV. DATE:
 TYPE: QUA
 SCALE: N.T.S.
 APRVD BY: SAL E. FATEEN



DESCRIPTION:
 LIGHT DUTY STORAGE FIXTURE DETAILS

DRAWING NUMBER:
 12-1300-A