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

OFFICE USE ONLY

APPLICATION #: OPM-0720

HCAI Preapproval of Manufacturer's Certification (OPM)

Type: [X] New [ ] Renewal/Update

Manufacturer Information

Manufacturer: Steris - Italy

Manufacturer's Technical Representative: Salvatore Gambuzza

Mailing Address: Via Laurentian 169, Pomezia, It 00071

Telephone: (909) 606-7622 Email: Salvatore_Gamuzza@steris.com

Product Information

Product Name: Reliance 6500 Endoscope Drying and Storage Cabinets

Product Type: Other electrical and mechanical components

Product Model Number: 12 and 20 Scope capacity cabinets

General Description: Endoscope drying/storage cabinets

Applicant Information

Applicant Company Name: EASE LLC.

Contact Person: Tiffany Tonn

Mailing Address: 1515 FAIRVIEW AVE, STE 205, MISSOULA, MT 59801

Telephone: (406) 541-3273 Email: tiffany@easeco.com

Title: Office Assitant

Registered Design Professonal Preparing Engineering Recommendations

Company Name: EASE LLC

Name: Jonathan Roberson California License Number: S4197

Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709

Telephone: (951) 295-1892 Email: jon@EASECo.com

HCAI Special Seismic Certification Preapproval (OSP)

☐ Special Seismic Certification is preapproved under OSP OSP Number:

Certification Method

Testing in accordance with: ☐ ICC-ES AC156 ☐ FM 1950-16

☐ Other(s) (Please Specify):

*Use of criteria other than those adopted by the California Building Standards Code, 2022 (CBSC 2022) 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 2022 may be used when approved by HCAI prior to testing.

☒ Analysis

☐ Experience Data

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

HCAI Approval

Date: 4/19/2024

Name: William Staehlin Title: Senior Structural Engineer

Condition of Approval (if applicable):

EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

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-0720

THIS PREAPPROVAL CONFORMS TO THE 2022 CALIFORNIA BUILDING CODE

MANUFACTURER: **STERIS CORPORATION**

EQUIPMENT NAME: **RELIANCE 6500 ENDOSCOPE DRYING AND STORAGE CABINETS**

Date: 4/16/24

GENERAL NOTES

1. THIS HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2022 CBC. THE DEMANDS (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2022 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 2022 CALIFORNIA BUILDING CODE WHERE S_{DS} IS NOT GREATER THAN 2.00.
4. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 & 13.3-3, WHERE S_{DS} = 2.00, a_p = 1.0, I_p = 1.5, R_p = 1.5, z/h = 0 AT CONCRETE SLAB & z/h $\leq$ 1 AT CONCRETE SLAB ON METAL DECK. SEE FOLLOWING SHEETS FOR Ω_0
5. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
6. 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 $\leq$ 1)
8. CONCRETE SLAB DETAIL VALID FOR DEMANDS SHOWN AT ANY ELEVATION AT OR 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 2022 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 S_{DS} & z/h RESULT IN SEISMIC FORCES (E_h, E_v) 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 AND THIS OPM.

   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.

REGISTERED PROFESSIONAL ENGINEER
JONATHAN ROBERSON
No. 4197
EXP. 6-30-2024
4/16/24
STRUCTURAL
STATE OF CALIFORNIA

STERIS CORPORATION

RELIANCE 6500
ENDOSCOPE DRYING AND STORAGE CABINETS

DES. J. ROBERSON
JOB NO. 14-2310
DATE 4/16/24

SHEET 2 OF 12 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 Test
3/8"	Sand Light Weight	3000	Hilti Kwik Bolt TZ2 (STAINLESS STEEL)	ESR-4266	1.5"	5"	24"	3.25"	30 FT-LB	1030 lb
3/8"	Normal Weight	3000	Hilti Kwik Bolt TZ2 (STAINLESS STEEL)	ESR-4266	1.5"	5"	12"	4"	30 FT-LB	1287 lb

B. THIS PREAPPROVAL ALLOWS FOR UP TO A MAXIMUM OF 2 ADJACENT CONCRETE SLAB EDGES, 12" OR 24 AWAY MINIMUM (i.e. - CORNER). SEE ADJACENT DETAIL FOR ADDITIONAL MINIMUM ALLOWABLE CONCRETE EDGE DISTANCES.

C. TESTING AND SPECIAL INSPECTION OF EXPANSION ANCHORS SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY EMPLOYED BY THE FACILITY OWNER PER CBC 1704A & 1910A.5 AND CAC 7-149. ALL REPORTS SHALL BE SENT TO THE INSPECTOR OF RECORD, OWNER AND THE ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE.

(i) AFTER AT LEAST 24 HOURS HAVE ELAPSED SINCE INSTALLATION, DIRECT PULL TENSION TEST OR TORQUE TEST AT LEAST 50% OF THE ANCHORS.

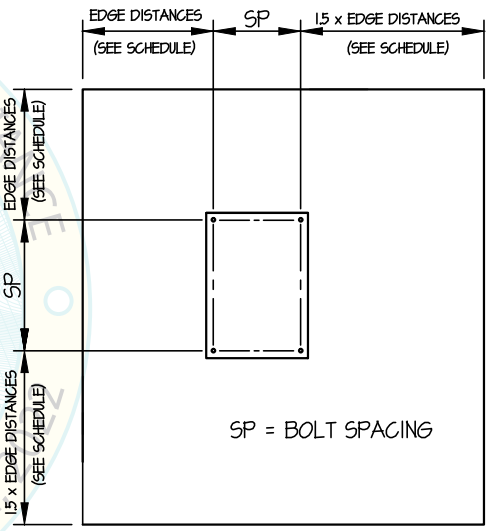
(ii) ACCEPTANCE CRITERIA:

- 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

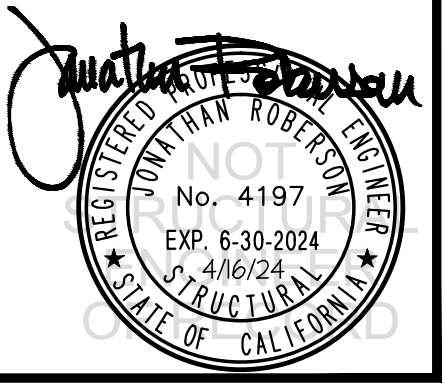
(iii) IF ANY ANCHOR FAILS, TEST ALL ANCHORS.

D. AVOID DAMAGING EXISTING STEEL REINFORCING IN CONCRETE SLAB WHEN INSTALLING CONCRETE EXPANSION ANCHORS.

E. PROVIDE FOR FULL THREAD ENGAGEMENT OF NUT & WASHER.



TYPICAL CONCRETE EDGE DETAIL



STERIS CORPORATION

RELIANCE 6500
ENDOSCOPE DRYING AND STORAGE CABINETS

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JOB NO. 14-2310
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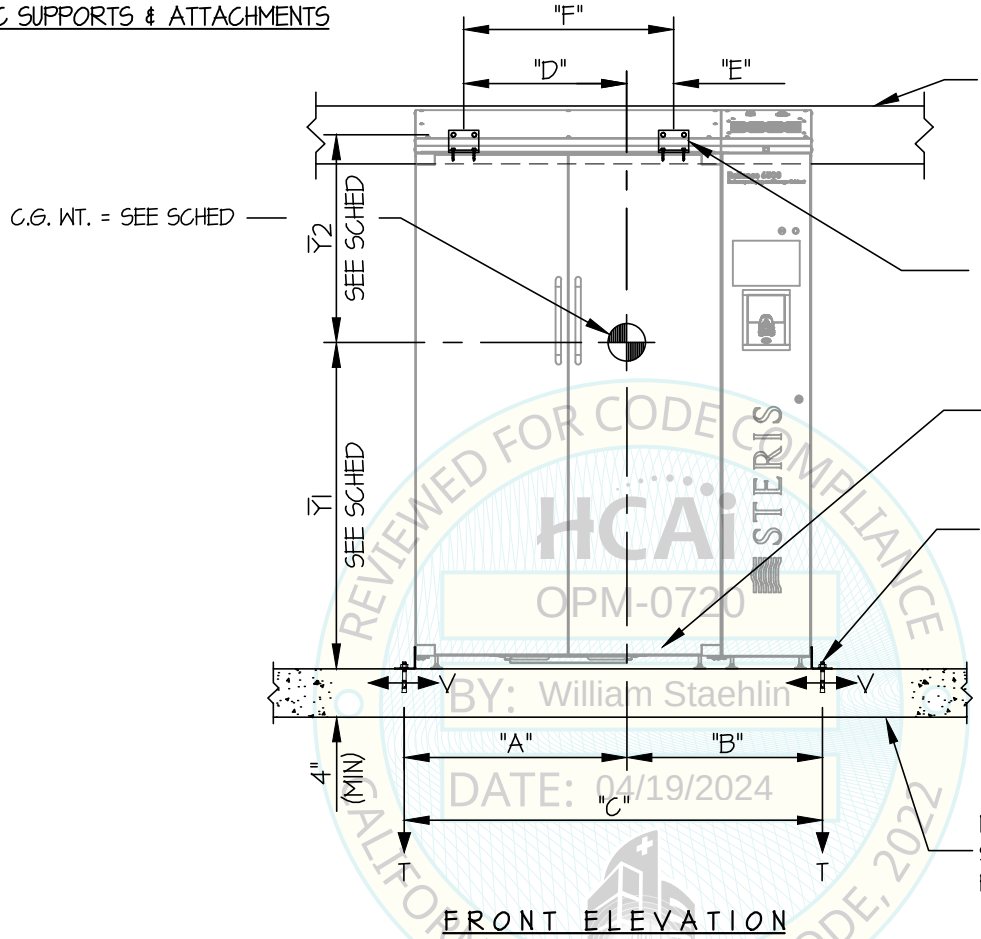
SHEET 3 OF 12 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS



FRONT ELEVATION
(20 SCOPES MAIN SHOWN)

CONCRETE SLAB

STRUCTURAL ENGINEER OF RECORD SHALL DESIGN THE BACKING PLATE (16 GA., 50 KSI MIN.) AND THE WALL STRUCTURE

USE (2)- #14 TEK SCREWS W/ STANDARD WASHERS TO BACKING PLATE AND (2)- M6 (A4) SS M. SCREWS TO CABINET FRAME (BRACKET BY STERIS) (2 PLACES) (SEE BRACKET DETAIL "C")

1" SQ (304) TUBULAR FRAME (BY STERIS)

USE (2)- 3/8"Φ HILTI KB-TZ2 (SS) EXPANSION ANCHORS W/ STANDARD WASHERS W/ (2)- M6 (A4) SS M. SCREWS W/ FENDER WASHERS TO UNIT FRAME (TORQUE TO 8.6 FT-LB) (EACH BRACKET, 4 BRACKETS TOTAL) (SEE BRACKET DETAIL "B") (MIN. EMBED. (h_{ef}) = 1.5")

NORMAL WEIGHT CONCRETE FLOOR SLAB (BY STRUCTURAL ENGINEER OF RECORD) (f'c = 3000 PSI MIN)

NOTES:

1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: S_{DS} = 2.00, a_p = 1.0, I_p = 1.5, R_p = 1.5, Ω_o = 2.0, z/h = 0)

   HORIZONTAL FORCE (E_h) = 0.90 W_p
   HORIZONTAL FORCE (E_{mh}) = 1.80 W_p (FOR CONCRETE ANCHORAGE)
   VERTICAL FORCE (E_v) = 0.40 W_p

2. THIS PREAPPROVA ENCOMPASSES WEIGHTS AND VERTICAL C.G. POSITIONS NOT EXCEEDING VALUES SHOWN.

3. THIS PREAPPROVA WAS PREPARED WITHOUT KNOWLEDGE OF ANY SITE CONDITION. COMPATIBILITY FOR USE WITH A SITE SHALL BE EVALUATED BY THE STRUCTURAL ENGINEER OF RECORD OF THE INSTALLATION (SEOR). USE REQUIRES APPROVAL BY THE SEOR.

4. STRUCTURAL ENGINEER OF RECORD FOR THE INSTALLATION SHALL VERIFY ALL CONDITIONS, EVALUATE INTERACTION WITH ADJACENT EQUIPMENT AND ANCHORS, AND PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.

5. SEE GENERAL NOTES: SHEETS 1 AND 2

REGISTERED PROFESSIONAL ENGINEER
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No. 4197
EXP. 6-30-2024
4/16/24
STRUCTURAL
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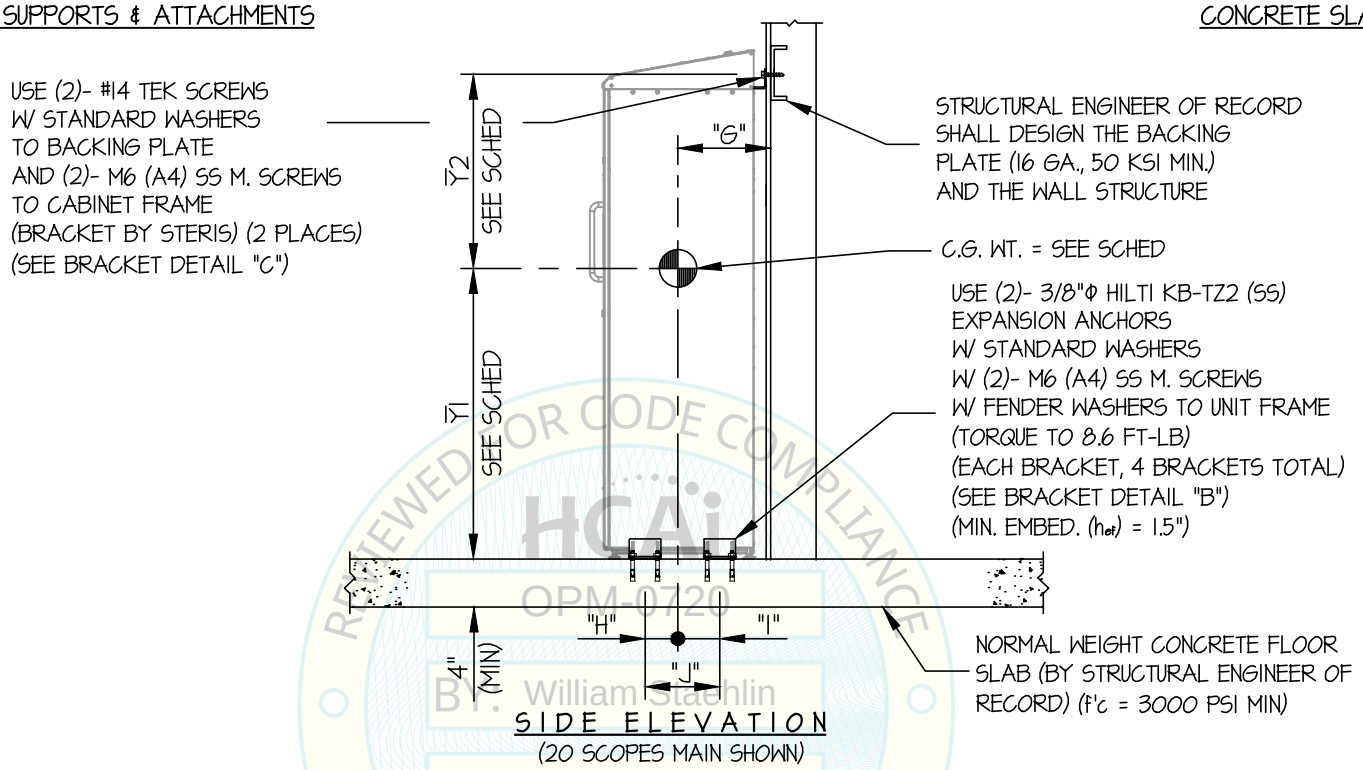
RELIANCE 6500
ENDOSCOPE DRYING AND STORAGE CABINETS

DES. J. ROBERSON
JOB NO. 14-2310
DATE 4/16/24

SHEET 4 OF 12 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

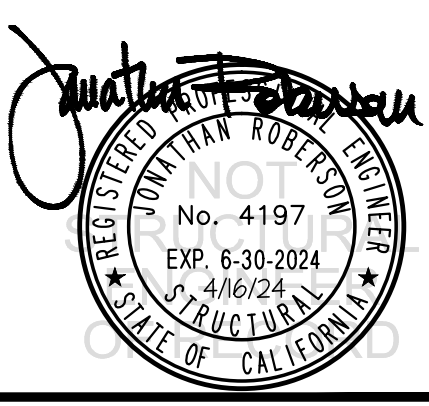
CONCRETE SLAB



SIDE ELEVATION
(20 SCOPES MAIN SHOWN)

RELIANCES 6500	WEIGHT (lb.)	Ȳ1 (in.)	Ȳ2 (in.)	"A" (in.)	"B" (in.)	"C" (in.)	"D" (in.)	"E" (in.)	"F" (in.)	"G" (in.)	"H" (in.)	"I" (in.)	"J" (in.)	Tu (lb.)	Vu (lb.)	++ Vu FLOOR (lb.)
12 SCOPES MAIN	780	44.0	32.9	23.3	21.6	44.9	13.6	0	13.6	14.4	5.6	6.2	11.8	273	100	102
20 SCOPES MAIN	1030	46.0	30.9	30.5	30.9	61.4	21.3	8.9	30.2	14.6	5.6	6.2	11.8	236	139	126

++ VALUES INCLUDE Ω_0



STERIS CORPORATION

RELIANCE 6500
ENDOSCOPE DRYING AND STORAGE CABINETS

DES. J. ROBERSON
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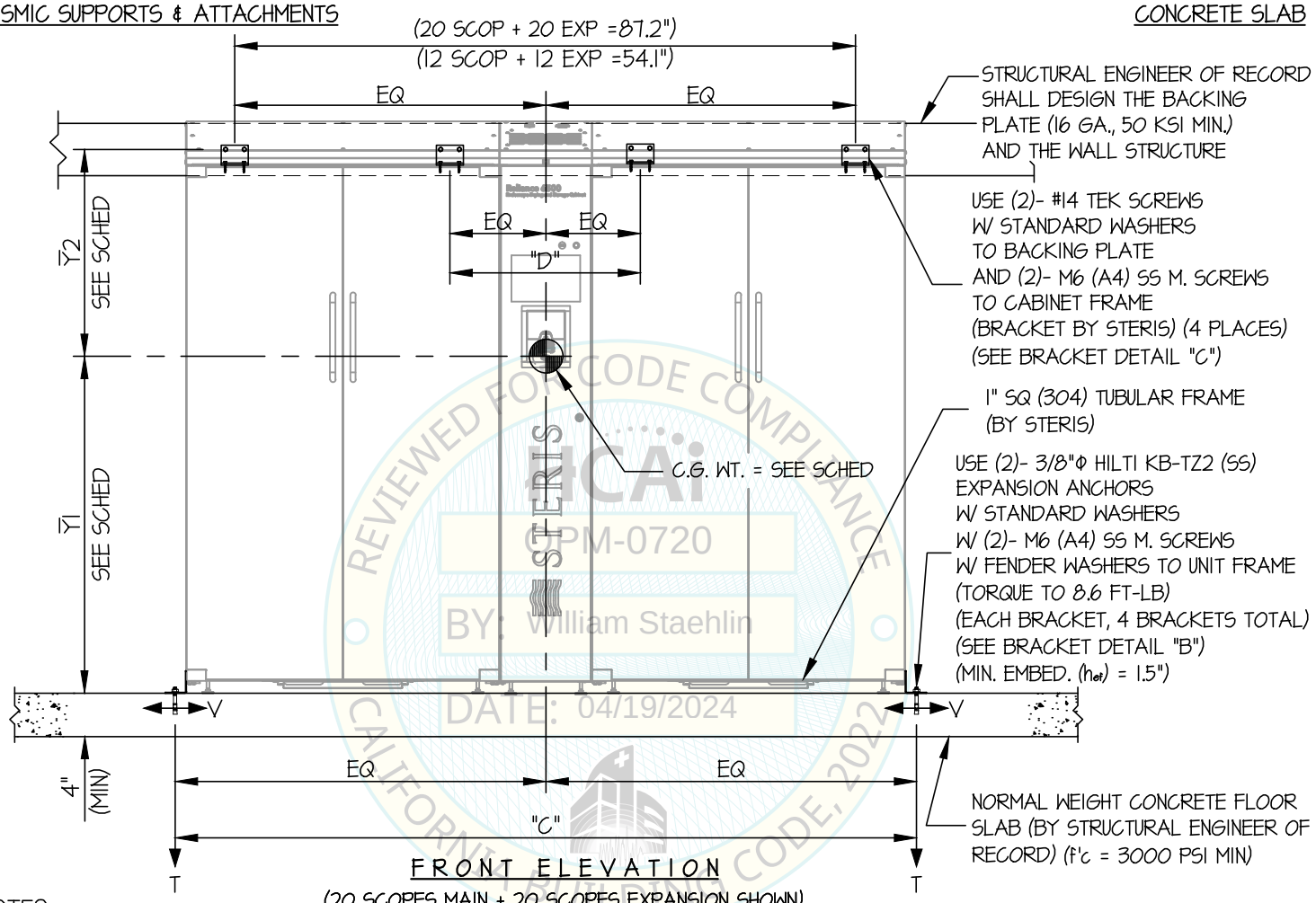
SHEET 5 OF 12 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

CONCRETE SLAB



FRONT ELEVATION

(20 SCOPES MAIN + 20 SCOPES EXPANSION SHOWN)

NOTES:

1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: S_{DS} = 2.00, a_p = 1.0, I_p = 1.5, R_p = 1.5, Ω_0 = 2.0, z/h = 0)

   HORIZONTAL FORCE (E_h) = 0.90 W_p
   HORIZONTAL FORCE (E_{mh}) = 1.80 W_p (FOR CONCRETE ANCHORAGE)
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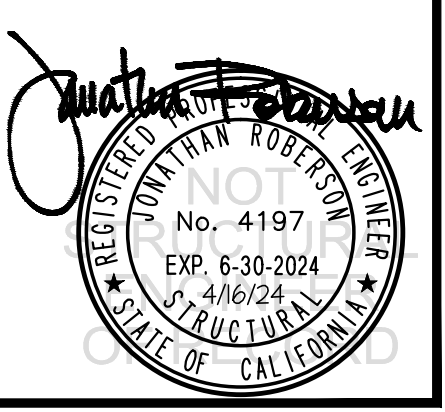


STERIS CORPORATION

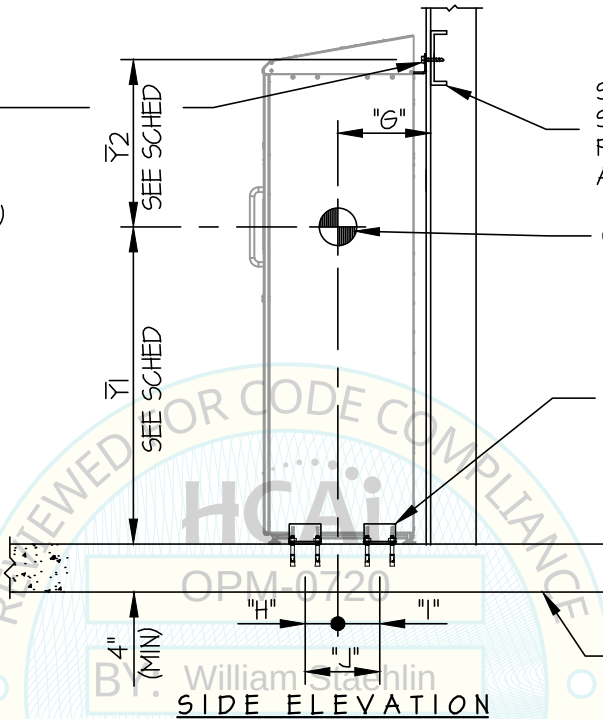
RELIANCE 6500
ENDOSCOPE DRYING AND STORAGE CABINETS

DES. J. ROBERSON
JOB NO. 14-2310
DATE 4/16/24
SHEET 6 OF 12 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

USE (2)- #14 TEK SCREWS
W/ STANDARD WASHERS
TO BACKING PLATE
AND (2)- M6 (A4) SS M. SCREWS
TO CABINET FRAME
(BRACKET BY STERIS) (4 PLACES)
(SEE BRACKET DETAIL "C")

CONCRETE SLAB



STRUCTURAL ENGINEER OF RECORD
SHALL DESIGN THE BACKING
PLATE (16 GA., 50 KSI MIN.)
AND THE WALL STRUCTURE

C.G. WT. = SEE SCHED

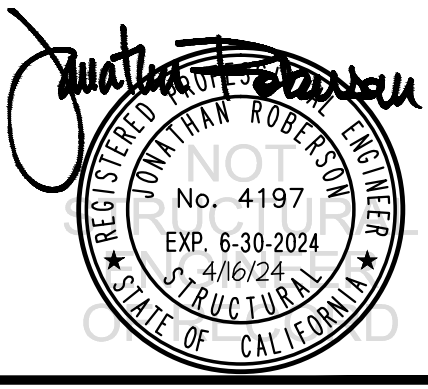
USE (2)- 3/8"Φ HILTI KB-TZ2 (SS)
EXPANSION ANCHORS
W/ STANDARD WASHERS
W/ (2)- M6 (A4) SS M. SCREWS
W/ FENDER WASHERS TO UNIT FRAME
(TORQUE TO 8.6 FT-LB)
(EACH BRACKET, 4 BRACKETS TOTAL)
(SEE BRACKET DETAIL "B")
(MIN. EMBED. (h_{ef}) = 1.5")

NORMAL WEIGHT CONCRETE FLOOR
SLAB (BY STRUCTURAL ENGINEER OF
RECORD) (f'c = 3000 PSI MIN)

SIDE ELEVATION
(20 SCOPES MAIN + 20 SCOPES EXPANSION SHOWN)

RELIANCES 6500	WEIGHT (lb.)	Ȳ1 (in.)	Ȳ2 (in.)	"C" (in.)	"D" (in.)	"G" (in.)	"H" (in.)	"I" (in.)	"J" (in.)	Tu (lb.)	Vu (lb.)	++ Vu FLOOR (lb.)
12 SCOPES MAIN + 12 SCOPES EXPANSION	1285	45.3	31.6	72.4	26.8	14.9	5.1	6.7	11.8	198	85	171
20 SCOPES MAIN + 20 SCOPES EXPANSION	1780	47.5	29.4	105.4	29.8	14.9	4.5	7.3	11.8	150	124	235

++ VALUES INCLUDE Ω_0



STERIS CORPORATION

RELIANCE 6500
ENDOSCOPE DRYING AND STORAGE CABINETS

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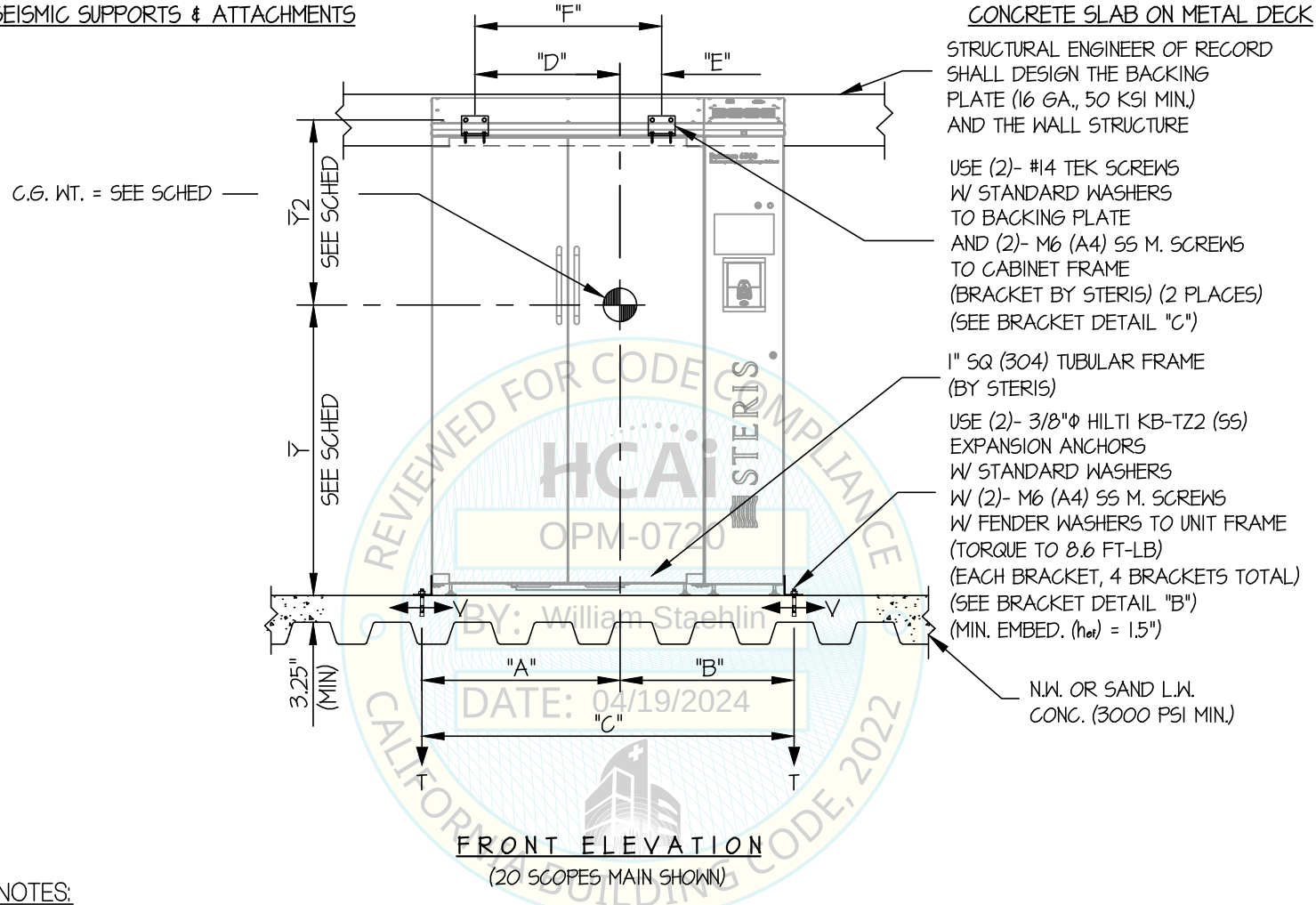
SHEET 7 OF 12 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS



FRONT ELEVATION
(20 SCOPES MAIN SHOWN)

NOTES:

1. FORCES ARE DETERMINED PER 2022 CALIFORNIA BUILDING CODE AND ASCE 7-16. STRENGTH DESIGN IS USED. (EXAMPLE: S_{DS} = 2.00, a_p = 1.0, I_p = 1.5, R_p = 1.5, Ω_o = 2.0, z/h ≤ 1)

   HORIZONTAL FORCE (E_h) = 2.40 W_p
   HORIZONTAL FORCE (E_{mh}) = 4.80 W_p (FOR CONCRETE ANCHORAGE)
   VERTICAL FORCE (E_v) = 0.40 W_p

2. THIS CALCULATION ENCOMPASSES WEIGHTS AND VERTICAL C.G. POSITIONS NOT EXCEEDING VALUES SHOWN.
3. THIS CALCULATION WAS PREPARED WITHOUT KNOWLEDGE OF ANY SITE CONDITION. COMPATIBILITY FOR USE WITH A SITE SHALL BE EVALUATED BY THE STRUCTURAL ENGINEER OF RECORD OF THE INSTALLATION (SEOR). USE REQUIRES APPROVAL BY THE SEOR.
4. STRUCTURAL ENGINEER OF RECORD FOR THE INSTALLATION SHALL VERIFY ALL CONDITIONS, EVALUATE INTERACTION WITH ADJACENT EQUIPMENT AND ANCHORS, AND PROVIDE SUPPORT STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.
5. SEE GENERAL NOTES: SHEETS 1 AND 2

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ENDOSCOPE DRYING AND STORAGE CABINETS

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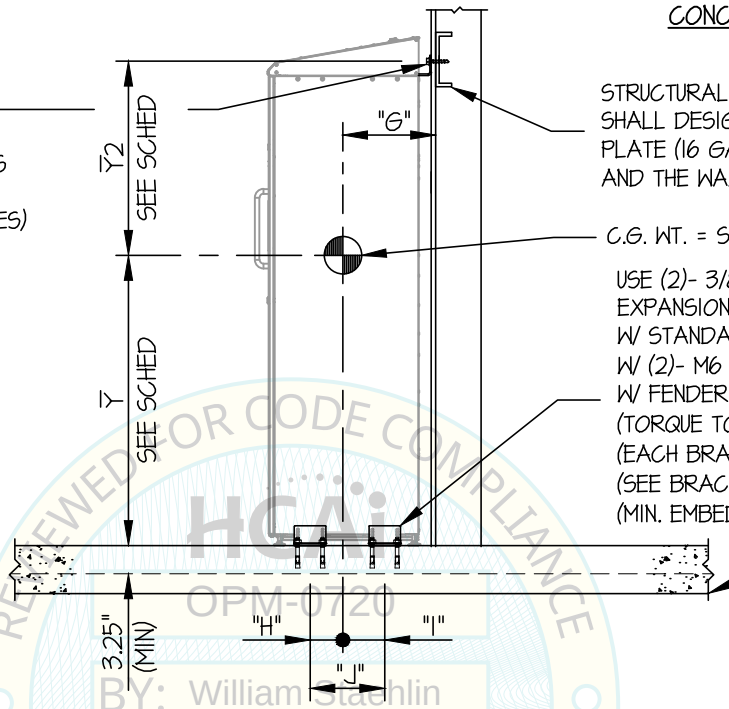
JOB NO. 14-2310
DATE 4/16/24

SHEET 8 OF 12 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

USE (2)- #14 TEK SCREWS
W/ STANDARD WASHERS
TO BACKING PLATE
AND (2)- M6 (A4) SS M. SCREWS
TO CABINET FRAME
(BRACKET BY STERIS) (2 PLACES)
(SEE BRACKET DETAIL "C")

CONCRETE SLAB ON METAL DECK



STRUCTURAL ENGINEER OF RECORD
SHALL DESIGN THE BACKING
PLATE (16 GA., 50 KSI MIN.)
AND THE WALL STRUCTURE

C.G. WT. = SEE SCHED

USE (2)- 3/8"Φ HILTI KB-TZ2 (SS)
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W/ FENDER WASHERS TO UNIT FRAME
(TORQUE TO 8.6 FT-LB)
(EACH BRACKET, 4 BRACKETS TOTAL)
(SEE BRACKET DETAIL "B")
(MIN. EMBED. (h_{ef}) = 1.5")

N.W. OR SAND L.W.
CONC. (3000 PSI MIN.)

SIDE ELEVATION
(20 SCOPES MAIN SHOWN)

RELIANCES 6500	WEIGHT (lb.)	Ȳ1 (in.)	Ȳ2 (in.)	"A" (in.)	"B" (in.)	"C" (in.)	"D" (in.)	"E" (in.)	"F" (in.)	"G" (in.)	"H" (in.)	"I" (in.)	"J" (in.)	Tu (lb.)	Vu (lb.)	++ Vu FLOOR (lb.)
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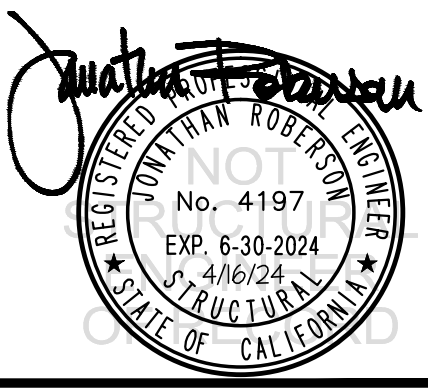
20 SCOPES MAIN	1030	46.0	30.9	30.5	30.9	61.4	21.3	8.9	30.2	14.6	5.6	6.2	11.8	629	370	336

++ VALUES INCLUDE Ω_0



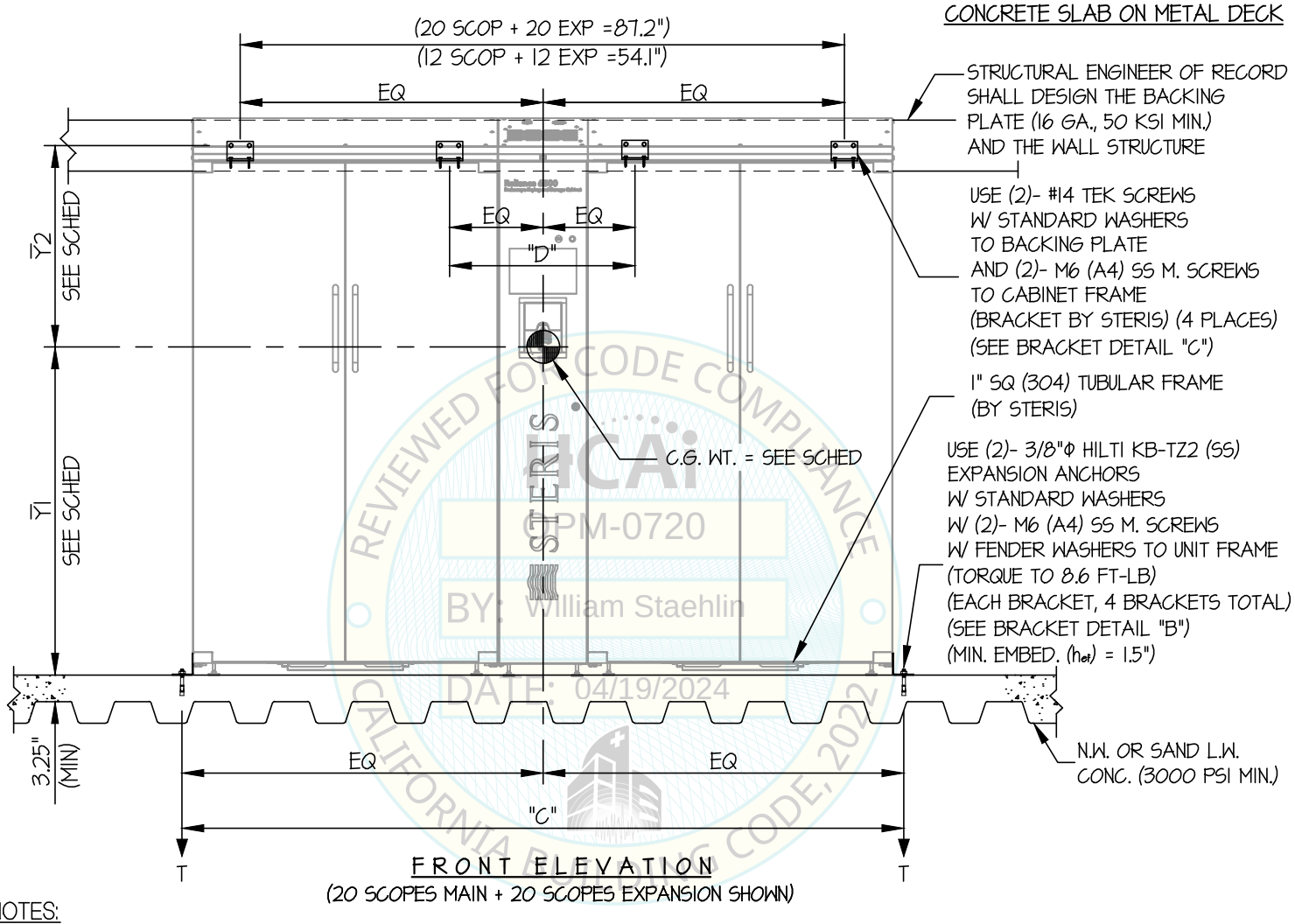
STERIS CORPORATION

RELIANCE 6500
ENDOSCOPE DRYING AND STORAGE CABINETS

DES. J. ROBERSON
JOB NO. 14-2310
DATE 4/16/24

SHEET 9 OF 12 SHEETS

CONCRETE SLAB ON METAL DECK



FRONT ELEVATION
(20 SCOPES MAIN + 20 SCOPES EXPANSION SHOWN)

NOTES:

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   HORIZONTAL FORCE (E_h) = 2.40 W_p
   HORIZONTAL FORCE (E_{mh}) = 4.80 W_p (FOR CONCRETE ANCHORAGE)
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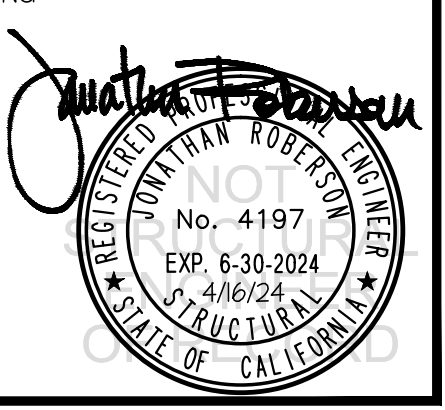
5. SEE GENERAL NOTES: SHEETS 1 AND 2



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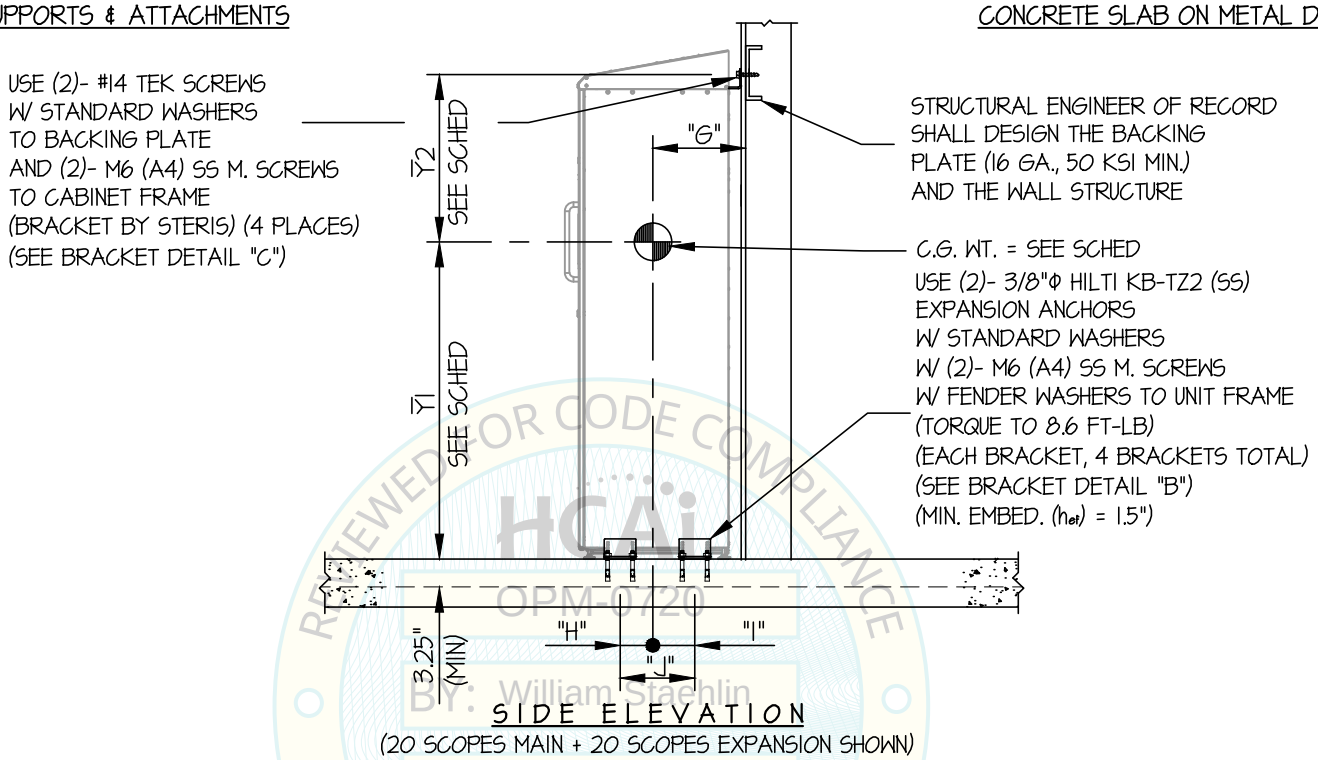
DATE 4/16/24

SHEET 10 OF 12 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

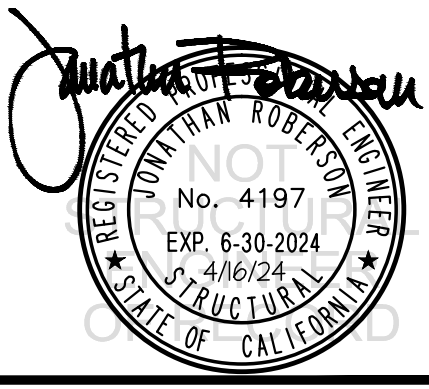
CONCRETE SLAB ON METAL DECK



SIDE ELEVATION
(20 SCOPES MAIN + 20 SCOPES EXPANSION SHOWN)

RELIANCES 6500	WEIGHT (lb.)	Ȳ1 (in.)	Ȳ2 (in.)	"C" (in.)	"D" (in.)	"G" (in.)	"H" (in.)	"I" (in.)	"J" (in.)	Tu (lb.)	Vu (lb.)	++ Vu FLOOR (lb.)
12 SCOPES MAIN + 12 SCOPES EXPANSION	1285	45.3	31.6	72.4	26.8	14.9	5.1	6.7	11.8	529	227	454
20 SCOPES MAIN + 20 SCOPES EXPANSION	1780	47.5	29.4	105.4	29.8	14.9	4.5	7.3	11.8	397	330	628

++ VALUES INCLUDE Ω_0



STERIS CORPORATION

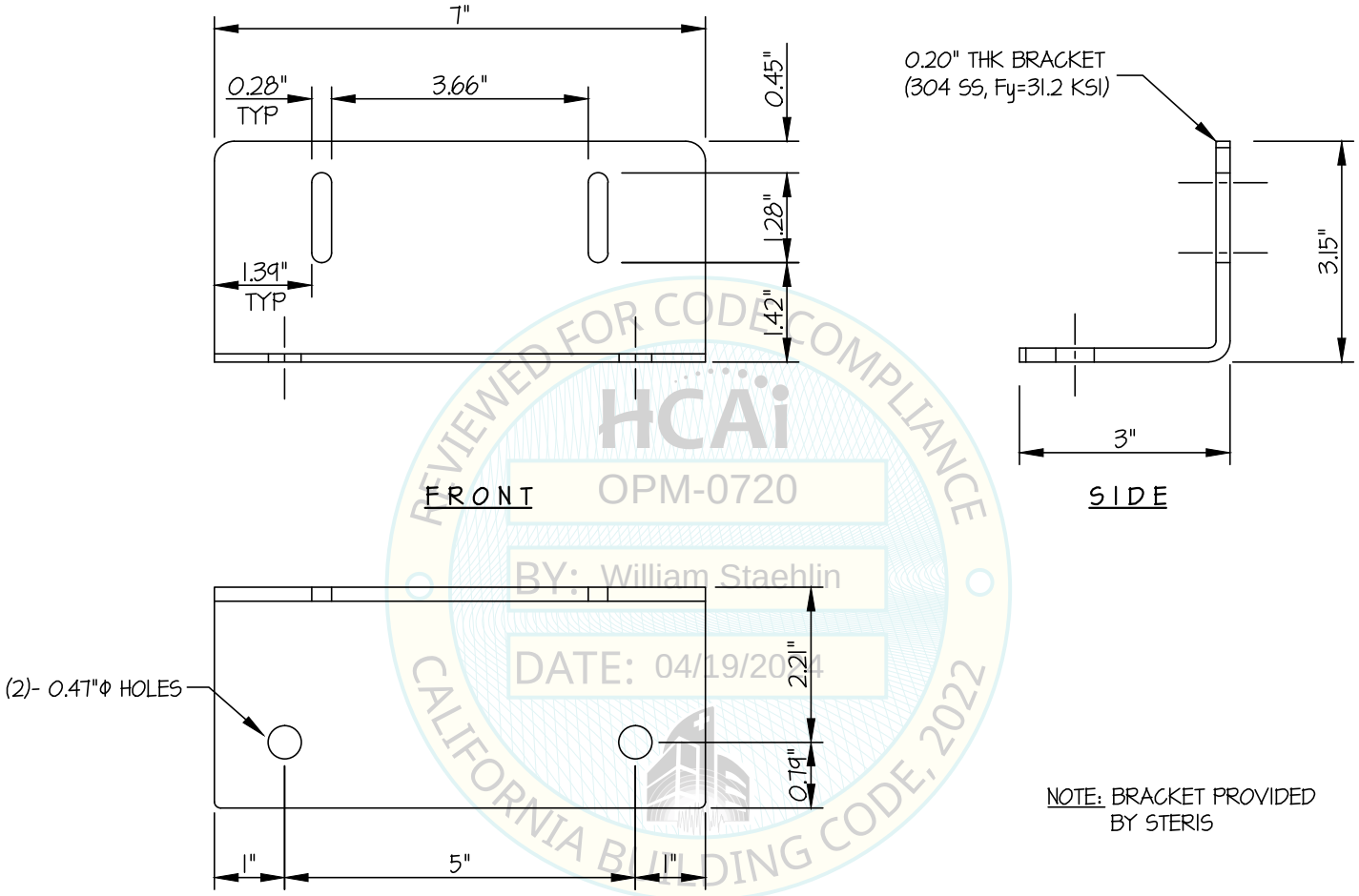
RELIANCE 6500
ENDOSCOPE DRYING AND STORAGE CABINETS

DES. J. ROBERSON
JOB NO. 14-2310
DATE 4/16/24

SHEET 11 OF 12 SHEETS

SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAILS



NOTE: BRACKET PROVIDED BY STERIS

FLOOR BRACKET DETAIL (B)

REGISTERED PROFESSIONAL ENGINEER
JONATHAN ROBERSON
No. 4197
EXP. 6-30-2024
STRUCTURAL
STATE OF CALIFORNIA
4/16/24

STERIS CORPORATION

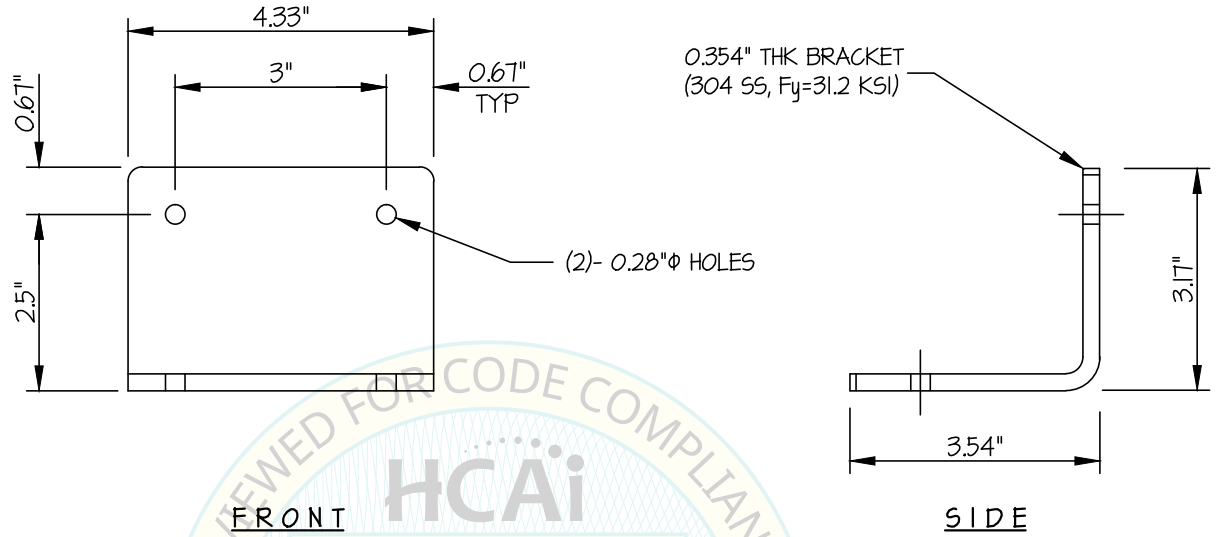
RELIANCE 6500
ENDOSCOPE DRYING AND STORAGE CABINETS

DES. J. ROBERSON
JOB NO. 14-2310
DATE 4/16/24

SHEET 12 OF 12 SHEETS

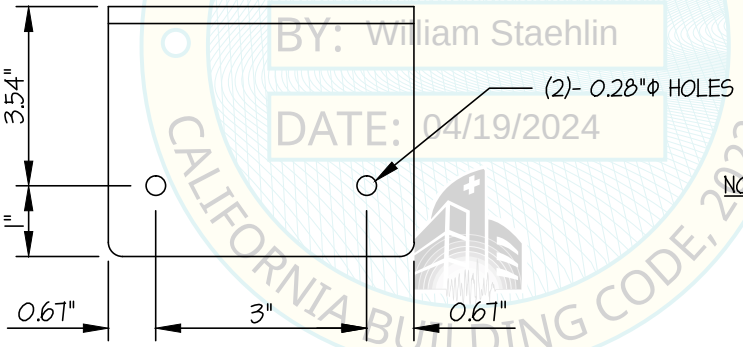
SEISMIC SUPPORTS & ATTACHMENTS

BRACKET DETAILS



FRONT

SIDE



PLAN

NOTE: BRACKET BY STERIS

WALL BRACKET DETAIL (C)