Submittal Transmittal

Clark & Enersen | 2020 Baltimore Avenue Suite 300 Kansas City MO 64108-1914 United States

PROJECT:	UAMS Biomed Bldg Viv Reno 769-017-22	DATE SENT:	11/3/2025
SUBJECT:	230548-01 Seismic and Vibration Isolation Controls	Submittal ID:	230548-01
TYPE:	Submittal	TRANSMITTAL ID:	00582
PURPOSE:	Approved as Noted	VIA:	Email
SPEC SECTION:	23 05 48		

FROM

NAME	COMPANY	EMAIL	PHONE
Lance Nozik	Clark & Enersen	Lance.Nozik@clarkenersen.com	816.474.8237

TO

NAME	COMPANY	EMAIL	PHONE
Tamara Barron	UAMS	TBarron@uams.edu	

REMARKS:

CONTENTS

QUANTITY: 1 DATED: 11/3/2025 NUMBER:

DESCRIPTION:
230548-01 Seismic and Vibration Isolation Controls RN.pdf

ACTION:
REMARKS:

CDI CONTRACTORS

CDI Contractors, LLC
3000 Cantrell Road
Little Rock AR 72202

Transmittal

No 2025.11.03-001

PROJECT: UAMS- CAMID

DATE: Nov 03, 2025

To: UAMS
4301 W MARKHAM ST. SLOT 545
LITTLE ROCK AR 72205
US

RE: 230548 Seismic and Vibration Isolation Controls

ATTN: TAMARA BARRON

JOB: 240147

WE ARE SENDING:		SUBMITTED FOR:		ACTION TAKEN:	
	Shop Drawings	✓	Approval		Approved as Submitted
	Letter		Your Use		Approved as Noted
	Prints		As Requested		Returned After Loan
	Change Order		Review and Comment		Resubmit
	Plans				Submit
	Samples	SENT VIA:			Returned
	Specifications		Attached ☐ Separate Cover		Returned for Corrections
	Other:			✓	Due Nov 10, 2025
✓	Submittal:				Other:

Line	Item	Package	Code	Rev.	QTY	Date	Description	Status
1	Submittal		230548-01	1		Nov 03, 2025	PD:Descriptive Data of Seismic and Vibration Controls	Submitted

REMARKS:

CC:

Signed: FRANCISCA GUTIERREZ

CDI CONTRACTORS, LLC

☐ APPROVED AS NOTED ☐ REJECTED
☑ APPROVED ☐ REVISE

BY gutierf **DATE** 11/3/2025

SUBMITTAL# 230548-01 **SPEC** 230548

This submittal has been reviewed for compliance with the contract documents. Approval does not relieve the subcontractor/supplier of the responsibility for conformance to the quality standards as set forth in the contract document, nor does it relieve the responsibility for field verification of all conditions relating to this contract.

☐ REVIEWED ☒ REVIEWED AND NOTED
☐ REVISE AND RESUBMIT ☐ REJECTED

Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for confirming and correlating all quantities and dimensions; selecting fabrication process and techniques of construction; coordinating their work with that of all other trades; and performing their work in a safe and satisfactory manner.

CLARK & ENERSEN

By James Beecher Date 11/03/2025

PRELIMINARY SUBMITTAL DATA

DATE: October 30, 2025
PROJECT: UAMS CAMID
ENGINEER: Clarks Enersen

MASON INDUSTRIES SEISMIC RESTRAINTS

This is a preliminary submittal showing the type of restraints we will provide. They could differ when final drawings are done depending on the equipment's submittal weights and footprints. Fluid Solutions will provide detailed shop drawings and calculations for the equipment as listed below. The shop drawings will be prepared in detail and along with calculations after approval of the equipment submittals.

Systems related to the BSL-3

Electrical

- Panelboards
  - LL1, LE5

Plumbing Systems – Nothing

Mechanical Systems

- Ductwork – SCB/SCBH Cable Bracing
- HFH-1
  - SAST/HG Bolt Down
- HRU-5
  - SAST/HG Bolt down
- AH-5A/5B
  - SAST/HG
- EXH-6/7 - CALC, attachment to steel

Understood. Contractor to engage a specialty seismic restraint engineer to produce sealed calculations and drawings showing restraint types, locations and anchorage details.

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Phone (501) 663-8886 · Fax (501) 663-8738
www.fluidsolutionsinc.com

EQUIPMENT RESTRAINTS

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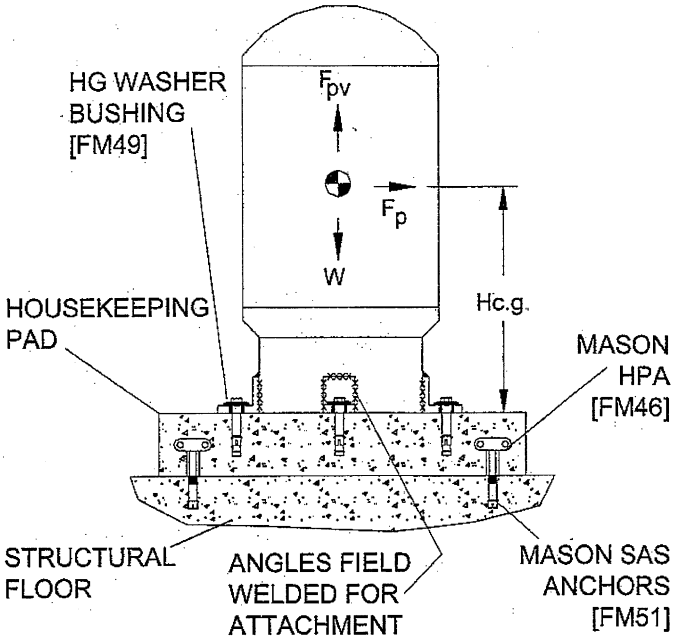
RIGIDLY MOUNTED NON-ISOLATED EQUIPMENT

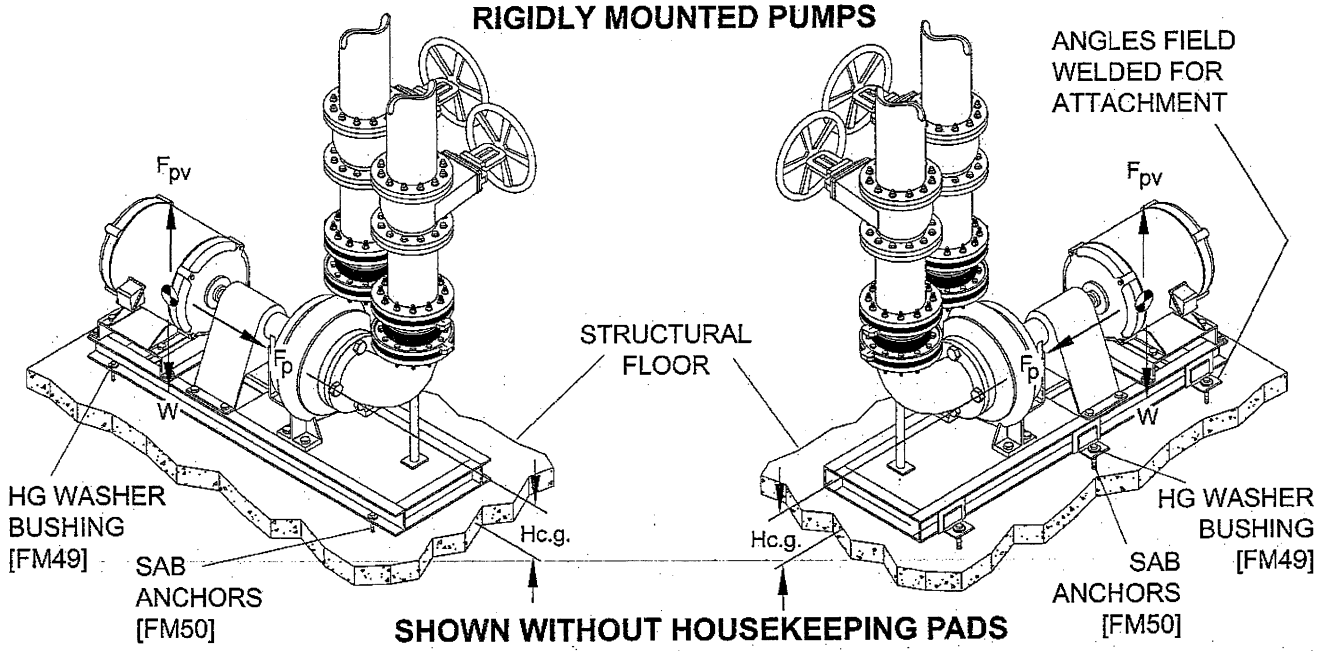
Rigidly mounted or non-isolated equipment must be bolted in position. Bolts should be selected in accordance with the anchor bolt section. For most equipment, stud type wedge anchors can be installed with equipment in place, because the drilling hole of stud anchors matches the stud's diameter. Where this is not possible due to lack of clearance, female wedge anchor bolts should be used, as the equipment can be slid into place and not lifted over the bolts. Most equipment is supplied with holes for bolting. Equipment that does not have holes may be drilled or have angles bolted or welded to them when drilling is not practical. In areas within high seismic zones, the bolt hole locations and sizes may not be adequate. In these cases, additional holes must be drilled or other attachments provided.



RIGIDLY MOUNTED TANK

Anchors subject to vibrating loads should be installed with our HG Neoprene bushing that surrounds the bolt shaft and head and protects the anchor from vibration.

RIGIDLY MOUNTED PUMPS



MASON INDUSTRIES, INC.
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350 Rabro Drive • Hauppauge, NY 11788 • 631/348-0282 • FAX 631/348-0279
2101 W. Crescent Ave., Suite D • Anaheim, CA 92801 • 714/535-2727 • FAX 714/535-5738
Email Addresses– Info@Mason-Ind.com • Info@MasonAnaheim.com

MASON INDUSTRIES, Inc.
Manufacturers of Vibration Control Products

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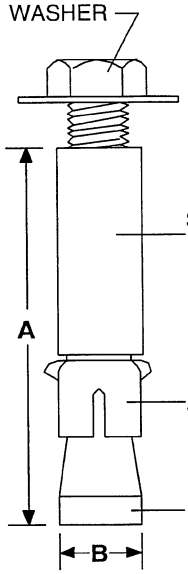
CERTIFIED FOR
JOB NAME :
CUSTOMER :
CUSTOMER P.O. :
MASON M.I. :
DWG. NO. :

TYPE
SAB
Certified Seismic Anchor Bolt with Washer

ALL PARTS ELECTROPLATED

"**CS**" CAP SCREW WITH STANDARD WASHER



TYPE SAB ANCHOR BOLT RATINGS installed into 3000 psi *(20 Mpa)* concrete

Size	Minimum Anchor Embedment (in) *(mm)*	Minimum Edge Distance (in) *(mm)*	Minimum Anchor Spacing (in) *(mm)*	Concrete Type: Stone Aggregate Tension* (lbs) *(kg)†*	Stone Aggregate Shear (lbs) *(kg)†*	Lightweight Tension* (lbs) *(kg)†*	Lightweight Shear (lbs) *(kg)†*
SAB-3/8	2 5/8 *67*	5 1/4 *133*	7 7/8 *200*	720 *327*	1050 *476*	575 *261*	840 *382*
SAB-1/2	3 1/2 *89*	7 *178*	10 1/2 *267*	1010 *458*	1830 *830*	800 *363*	1500 *680*
SAB-5/8	4 3/8 *111*	8 3/4 *222*	13 1/8 *333*	2220 *1007*	2970 *1347*	1625 *737*	2720 *1234*
SAB-3/4	5 1/4 *133*	10 1/2 *267*	15 3/4 *400*	2330 *1057*	3340 *1515*	— —	— —
SAB-1	5 3/4 *146*	11 1/2 *292*	17 1/4 *438*	3660 *1524*	6610 *2998*	— —	— —

*These tension values are applicable when the anchors are installed without special inspection as set forth in Section 1701.1 of UBC. When anchors are installed with special inspection as set forth in Section 1701.1 of the UBC, the tabulated values may be increased by 100%.

†For kN divide kg by 102

Notes:

The tabulated values are for anchors installed at the specified spacings and edge distance. Spacings may be reduced by 67% provided the tension values are reduced to 50% (65% for SAB-1) and the shear values are reduced by 60%. Edge distances may be reduced by 50% provided the tension values are reduced by 30% and the shear values are reduced by 50%. Linear interpolation may be used for intermediate spacings.

For combined tension and shear forces on anchors, use the following equations:
$(P_s/P_t)^{5/3} + (V_s/V_t)^{5/3} \leq 1.0$, where: P_s and V_s are Applied Forces
and P_t and V_t are Allowable Forces
Ratings may be increased 33 1/3 % to accomodate periodic forces such as wind or seismic loads. Tabulated values include a safety factor of 8 to 1 for tension forces and 4 to 1 for shear forces.

For Stone Aggregate Concrete, refer to ICBO Report #ER-5063.
For Lightweight Concrete, refer to Techmar report #TR-1193.

TYPE SAB ANCHOR BOLT DIMENSIONS

Size	A (in)	A *(mm)*	B (in)	B *(mm)*	CS (in)	CS *(mm)*
SAB-3/8	2 5/16	*67*	1/2	*13*	3/8"-16 UNC x 1 1/4	*3/8"-16 UNC x 32*
SAB-1/2	3 1/16	*89*	5/8	*16*	1/2"-13 UNC x 1 1/2	*1/2"-13 UNC x 38*
SAB-5/8	3 13/16	*111*	7/8	*22*	5/8"-11 UNC x 1 3/4	*5/8"-11 UNC x 44*
SAB-3/4	4 5/8	*133*	1	*25*	3/4"-10 UNC x 2 1/4	*3/4"-10 UNC x 57*
SAB-1	5	*146*	1 1/4	*32*	1"- 8 UNC x 2 1/2	*1"- 8 UNC x 64*

CERTIFICATION DATA

DWN :	CHKD :	DATE :	DWG NO. :

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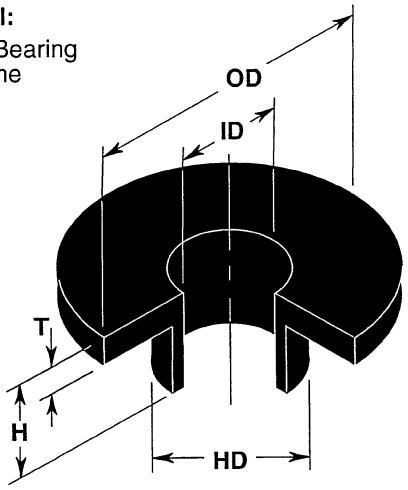
CERTIFIED FOR
JOB NAME :
CUSTOMER :
CUSTOMER P.O. :
MASON M.I. :
DWG. NO. :

TYPE

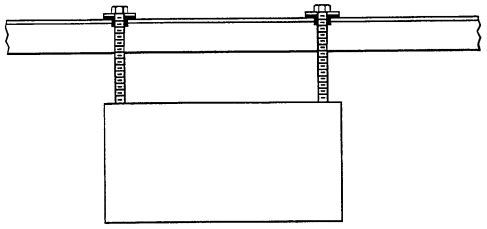
HG

Washer Bushing

Material:
Bridge-Bearing
Neoprene



Acoustical Isolation

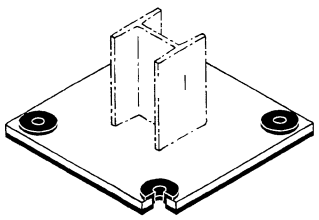


BRIDGE-BEARING NEOPRENE SPECIFICATIONS

ORIGINAL PHYSICAL PROPERTIES			TESTED FOR AGING				COMPRES-SION SET
			(c)			(d)	(e)
(a) Duro-meter	(b) Tensile Strength (min)	(b) Elongat. at Break (min)	OVEN AGING(70h/212°F) Hard-ness (max)	Tensile Strength (max)	Elongat. at Break (max)	OZONE 1 ppm in air by Vol.20% Strain 100F	22hrs 150F° Method B
40±5	2000 psi	450%	+15%	±15%	-40%	No Cracks	30%(max)
50±5	2500 psi	400%	+15%	±15%	-40%	No Cracks	25%(max)
60±5	2500 psi	350%	+15%	±15%	-40%	No Cracks	25%(max)

(a)ASTM D-676 (b)ASTM D-412 (c)ASTM D-573 (d)ASTM D-1149 (e)ASTM D-395

Bolt isolator and seismic relief application



TYPE HG DIMENSIONS

Size	Bolt Dia. (in)	Bolt Dia. *(mm)*	ID (in)	ID *(mm)*	HD (in)	HD *(mm)*	OD (in)	OD *(mm)*	T (in)	T *(mm)*	H (in)	H *(mm)*
HG-25	1/4	6	1/4	6	1/2	13	1	25	1/8	3	3/8	10
HG-38	3/8	10	3/8	10	5/8	16	1 1/4	32	1/8	3	1/2	13
HG-50	1/2	13	1/2	13	3/4	19	1 5/8	41	1/8	3	1/2	13
HG-63	5/8	16	5/8	16	7/8	22	2	51	3/16	5	5/8	16
HG-75	3/4	19	3/4	19	1	25	2 1/4	57	3/16	5	5/8	16
HG-100	1	25	1	25	1 1/4	32	2 3/4	70	1/4	6	7/8	22
HG-125	1 1/4	32	1 1/4	32	1 1/2	38	3 1/4	83	1/4	6	7/8	22
HG-150	1 1/2	38	1 1/2	38	1 3/4	45	3 3/4	95	1/4	6	1	25

CERTIFICATION DATA

DWN :	CHKD :	DATE :

DWG NO. :

Chapter 10

SUSPENDED EQUIPMENT

The basic design requirements for bracing of suspended equipment are as follows:

1. Sway braces should be arranged so that they limit motion of the equipment in all directions.
2. Threaded rods should be designed to resist vertical seismic loads and support equipment.
3. Equipment supported by vibration-isolation hangers should be detailed and installed with isolation hangers close to the structure and upward limit stops located directly below the hangers.
4. Avoid bracing equipment to separate portions of the structure that may act differently in response to an earthquake. For example, do not connect a transverse brace to a wall and a longitudinal brace to a floor or roof at the same brace location.

SWAY BRACING

Sway bracing of suspended equipment differs from piping, ductwork, or other suspended systems. Equipment is braced independently of surrounding systems, such as ductwork and piping, and requires restraint in all horizontal and vertical directions.

There are two types of sway braces, solid and cable, each with advantages and disadvantages as discussed in Chapter 7.

Figures 10-1 and 10-2 show typical solid and cable brace arrangements for suspended equipment. In the extreme case the unit is square in plan, it is possible the unit may rotate and therefore an eight-cable arrangement is recommended, as shown in Figure 10-3.

HANGER ROD REQUIREMENTS

The effects of sway bracing on the hanger rod are discussed in more detail in Chapter 7. Following is a discussion of how loads are applied to hanger rods for suspended equipment.

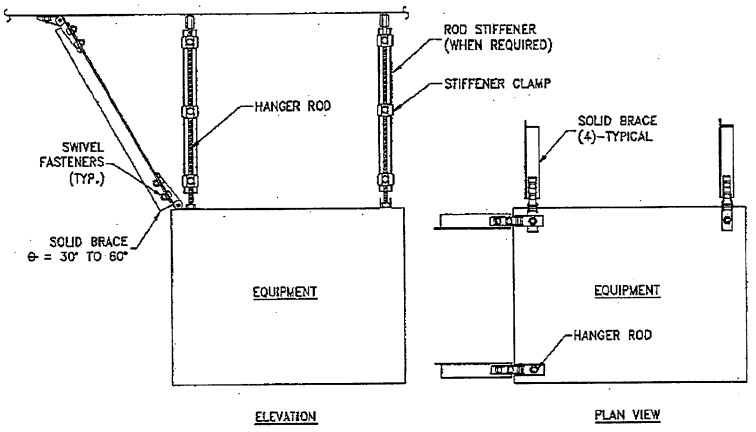


Figure 10-1 Typical solid brace arrangement.

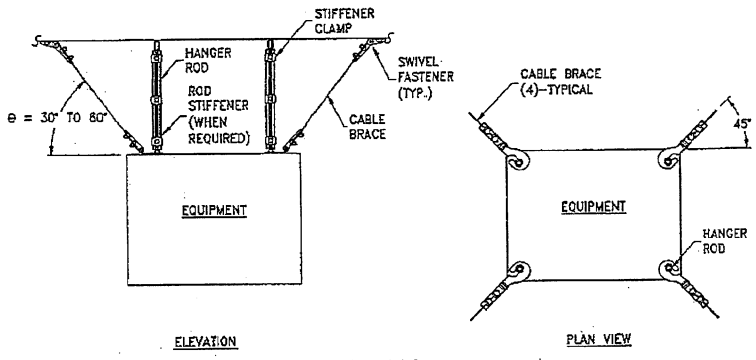


Figure 10-2 Typical cable brace arrangement.

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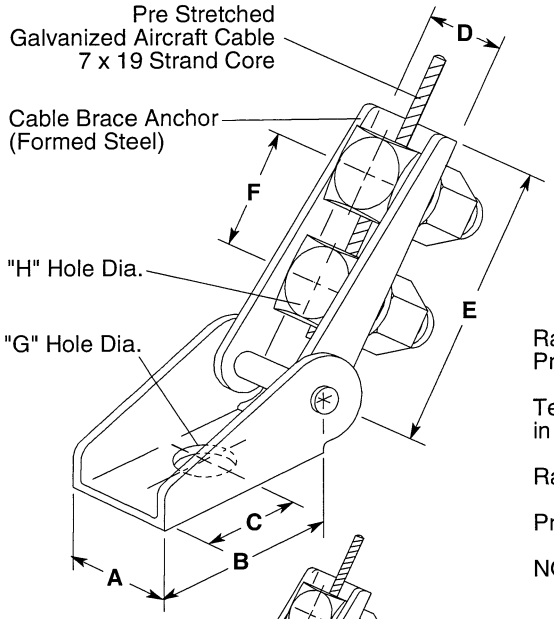
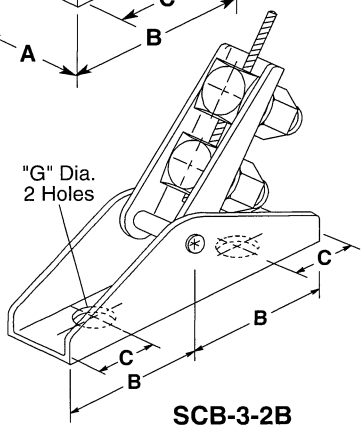
Info@MasonAnaheim.com

CERTIFIED FOR :
JOB NAME :
CUSTOMER :
CUSTOMER P.O. :
MASON M.I. :
DWG NO. :

TYPE
SCB
Seismic Cable Brace Anchor & Assembly

SCB-1,2,3 & 4





SCB-3-2B

TYPE SCB ASSEMBLY RATING AS CONTROLLED BY CABLE BREAK STRENGTH

Size	Cable Diameter (in)	Cable Diameter (mm)	OSHPD Max Ratings (lbs)	OSHPD Max Ratings (kg)
SCB-1	1/8	3	975	442
SCB-2	3/16	5	2050	930
SCB-3 & -3-2B	1/4	6	3150	1429
SCB-4	3/8	10	6875	3119

Ratings are from test data and calculations used to obtain California OSHPD Preapproval Number R-0349.

Testing was supervised and certified by an independant engineer registered in the state of california.

Ratings are based on attachment to steel.

Preferred installation ange is 45° Maximum variation ±15°.

NOTE: Not to be used as a vertical hanger for equipment, duck work or piping. To be used as a seismic restraint only.

APPROVED
California Office of Statewide Health Planning and Development
FIXED EQUIPMENT ANCHORAGE
OPA-0349 August 5, 2002
*Valid for 3 Years Maximum
Bill Staehlin (916) 654-3362

TYPE SCB ANCHOR DIMENSIONS (inches)

Size	A	B	C	D	E	F	G	H
SCB-1	1 3/8	2	1	15/16	3 3/8	1 1/2	9/16	1/2
SCB-2	1 5/8	2 3/4	1 3/8	1 3/16	4 3/8	1 3/4	11/16	5/8
SCB-3	2	3 1/2	1 3/4	1 7/16	4 3/4	2	13/16	3/4
SCB-3-2B	2	4 3/4	1	1 7/16	4 3/4	2	13/16	3/4
SCB-4	3 1/8	5	2 1/2	1 15/16	5 3/4	2 1/4	1 5/16	1

TYPE SCB ANCHOR DIMENSIONS (mm)

Size	A	B	C	D	E	F	G	H
SCB-1	35	51	25	24	86	38	14	13
SCB-2	41	70	35	30	111	44	17	16
SCB-3	51	89	44	37	121	51	21	19
SCB-3-2B	51	121	25	37	121	51	21	19
SCB-4	79	127	64	49	146	57	33	25

TORQUE VALUES

Diameter	Torque Foot Pounds		Torque Kilogram-Meters	
	Minumum	Maximum	Minimum	Maximum
1/2"	25	29	3.5	4.1
5/8"	45	52	6.3	7.3
3/4"	55	64	7.7	9.0

CERTIFICATION DATA

TAG: _____

UNIT: _____

DWN :	CHKD:	DATE :	DWG NO. :

FORM S-102-2a

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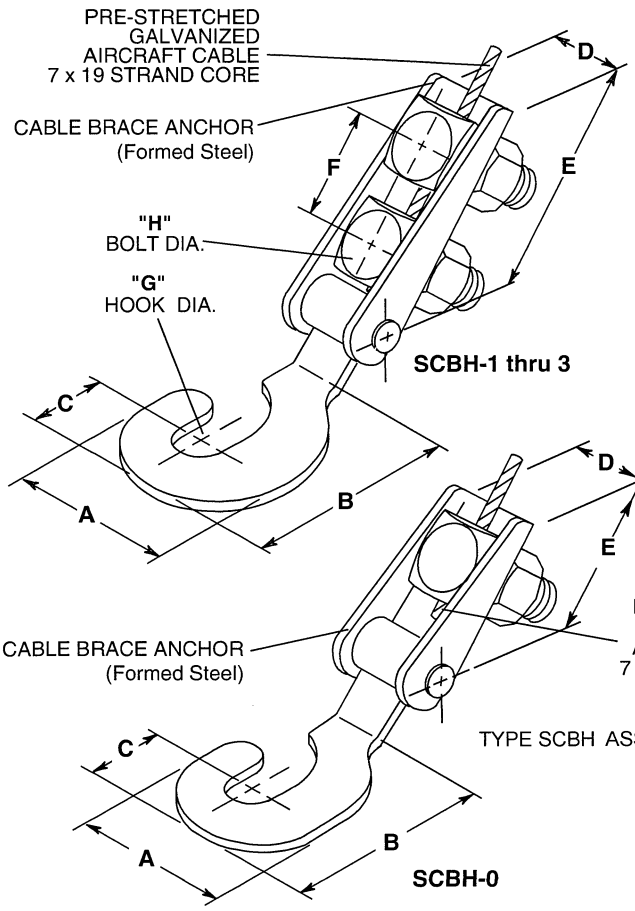
FAX 714/535-5738
Info@MasonAnaheim.com

CERTIFIED FOR
JOB NAME : _____
CUSTOMER : _____
CUSTOMER P.O. : _____
MASON M.I. : _____
DWG. NO. : _____

TYPE
SCBH
SEISMIC CABLE BRACE HOOK ANCHOR & ASSEMBLY



TYPE SCBH ASSEMBLY

TYPE SCBH ANCHOR DIMENSIONS (inches mm)

Size	For use with Rod Sizes	A	B	C	D	E	F	G	H
SCBH-0	3/8	1 3/8	2 1/16	1 1/16	15/16	1 3/4	--	3/8	1/2
SCBH-1	1/2, 5/8	1 7/8	2 3/8	1	1	3 3/8	1 1/2	5/8	1/2
SCBH-2	3/4,7/8	2 7/8	3 3/4	1 3/8	1 3/8	4 3/8	1 3/4	7/8	5/8
SCBH-3	1, 1 1/8	3 1/2	4 3/4	1 3/4	1 3/4	4 3/4	2	1 1/8	3/4
SCBH-0	10	35	50	17	24	44		10	13
SCBH-1	13, 16	48	60	25	25	86	38	16	13
SCBH-2	19, 22	73	95	35	30	111	44	22	16
SCBH-3	25, 28	89	121	44	37	121	51	29	19

TORQUE VALUES

Diameter	Torque Foot Pounds		Torque Kilogram-Meters	
	Minumum	Maximum	Minimum	Maximum
1/2"	25	29	3.5	4.1
5/8"	45	52	6.3	7.3
3/4"	55	64	7.7	9.0

RATINGS AS CONTROLLED BY CABLE BREAK STRENGTH

Size	Cable Dia. (in)	Cable Dia. (mm)	OSHPD Max. Ratings (lbs)	OSHPD Max. Ratings (kgs)
SCBH-0	1/16	(1.5)	240	(110)
SCBH-1	1/8	(3.0)	975	(442)
SCBH-2	3/16	(5.0)	2050	(930)
SCBH-3	1/4	(6.0)	3150	(1429)

APPROVED
California Office of Statewide Health Planning and Development
FIXED EQUIPMENT ANCHORAGE
OPA-0349 AUGUST 5, 2002
*Valid for 3 Years Maximum
Bill Staehlin (916) 654-3362

Ratings for SCBH-1 thru -3 are from test data and calculations used to obtain California OSHPD Preapproval Number OPA-0349. Testing was supervised and certified by an independent engineer regestered in the state of California. Ratings are based on attachment to steel. SCBH assemblies will fit rod sizes as tabulated. Prefered installation angle is 45 degrees. Maximum variation is ± 15 degrees

CERTIFICATION DATA

TAG : _____

UNIT _____

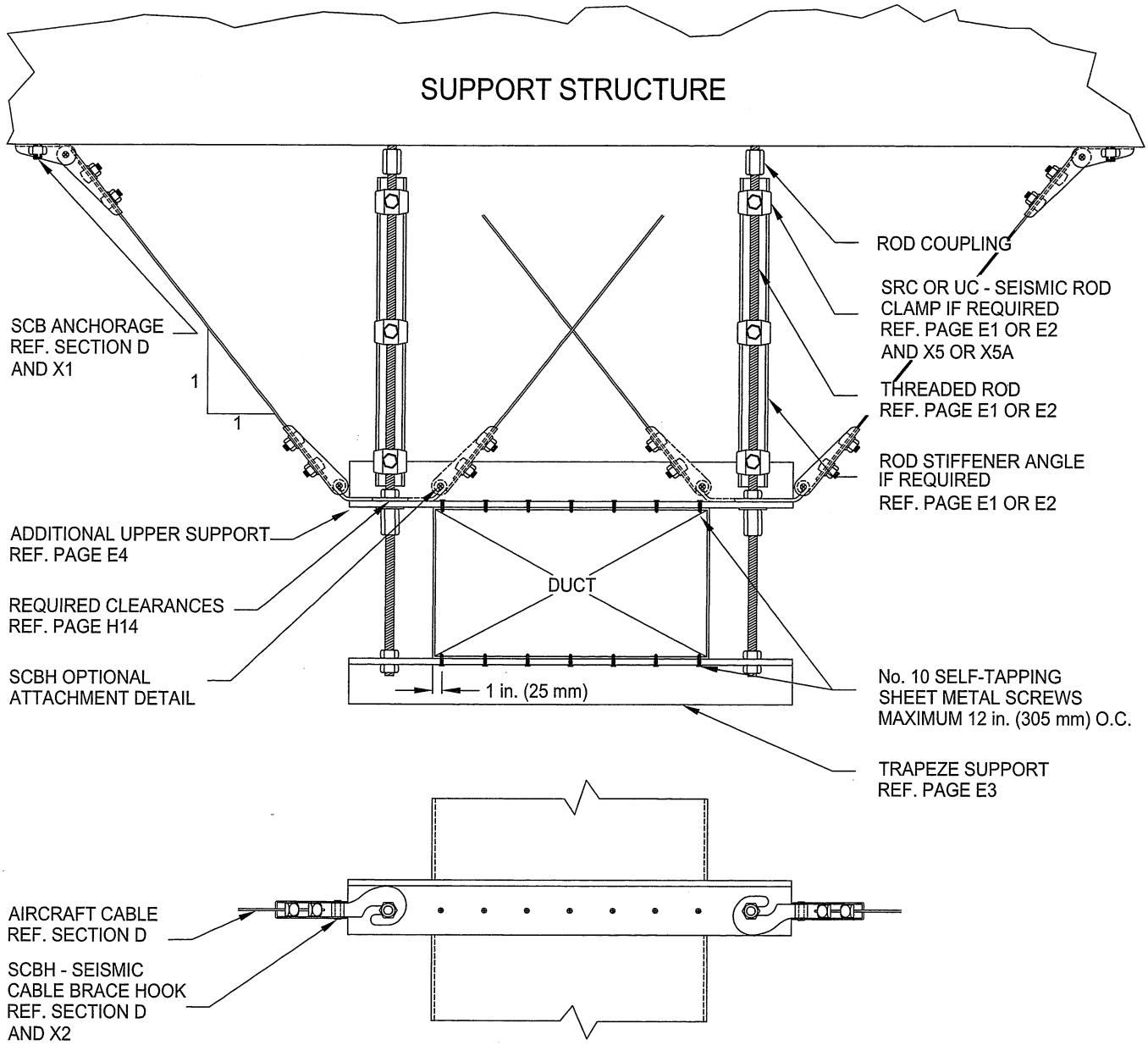
DWN :	CHKD:	DATE :

DWG NO. :

DUCTWORK RESTRAINTS

10350 Riverview Corporate Dr., Maumelle, AR 72113
Phone (501) 663-8886 • Fax (501) 663-8738
www.fluidsolutionsinc.com

TRANSVERSE SEISMIC CABLE BRACE HOOK GUIDELINES FOR RECTANGULAR/OVAL DUCT



NOTE 1: A ROD STIFFENER ANGLE MAY BE REQUIRED AS SHOWN. FOR ADDITIONAL INFORMATION, REF. PAGE E1 OR E2. BRACE ANGLE RATIO MAY BE INCREASED TO 2(VERT.) : 1(HORIZ.). REFER TO SECTION D FOR LIMITATIONS. REFER TO PAGE X2 FOR PROPER INSTALLATION OF SCBHS.

NOTE 2: FOR TIGHTENING REQUIREMENTS OF BOLTS, NUTS AND STRUT NUTS REFERENCE H15.

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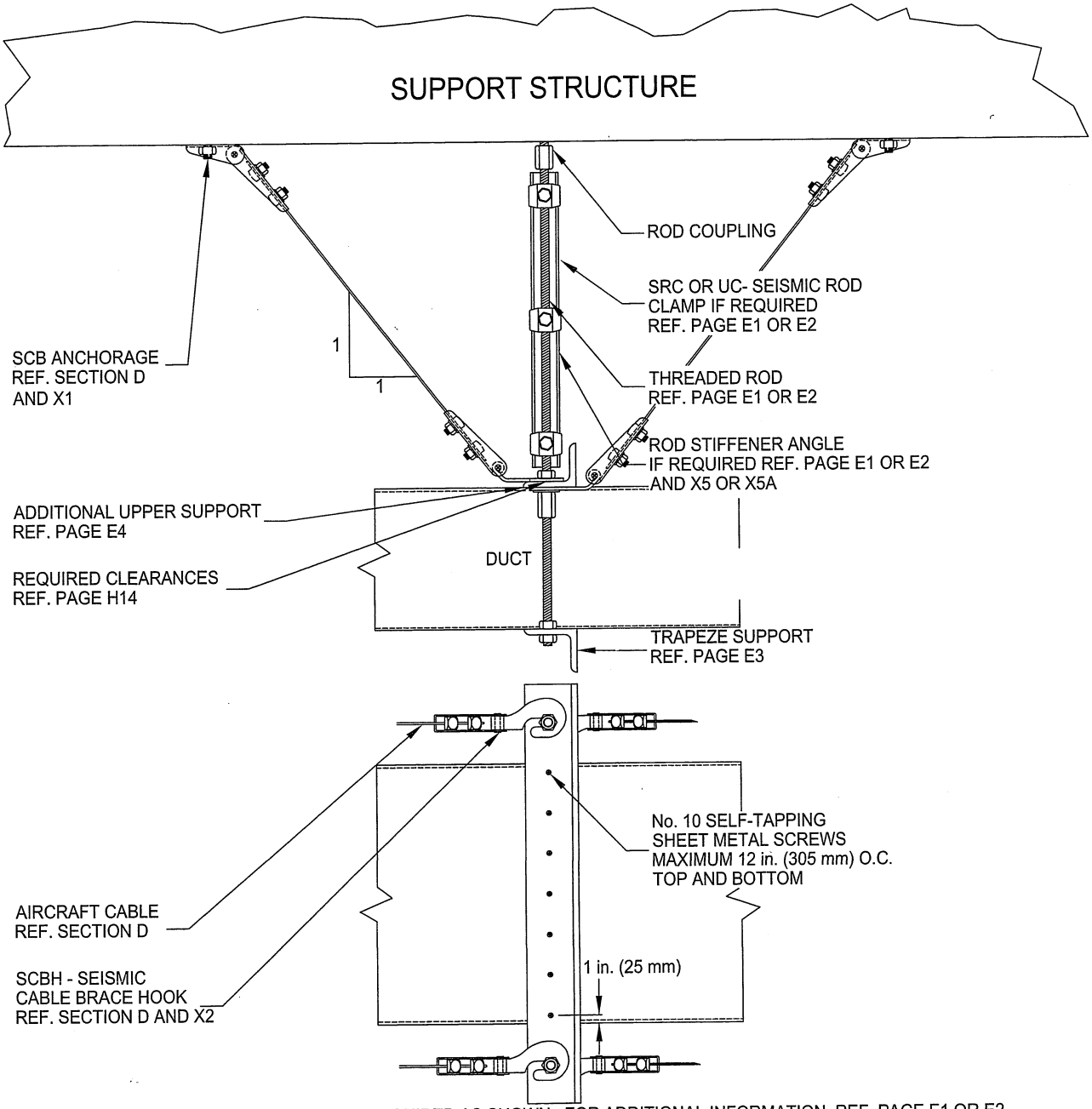
APPROVED
California Office of Statewide Health Planning and Development
FIXED EQUIPMENT ANCHORAGE
OPA-0349 August 5, 2002

Bill Staehlin (916) 654-3362

Dhiru Mali
Structural Engineer
California SE No. 2811

LONGITUDINAL SEISMIC CABLE BRACE HOOK GUIDELINES FOR RECTANGULAR/OVAL DUCT



NOTE 1: A ROD STIFFENER ANGLE MAY BE REQUIRED AS SHOWN. FOR ADDITIONAL INFORMATION, REF. PAGE E1 OR E2. BRACE ANGLE RATIO MAY BE INCREASED TO 2(VERT.) : 1(HORIZ.). REFER TO SECTION D FOR LIMITATIONS. REFER TO PAGE X2 FOR PROPER INSTALLATION OF SCBHS.

NOTE 2: FOR TIGHTENING REQUIREMENTS OF BOLTS, NUTS AND STRUT NUTS REFERENCE H15.

A P P R O V E D

California Office of Statewide Health Planning and Development

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Bill Staehlin (916) 654-3362

MASON INDUSTRIES, Inc.

Manufacturers of Vibration Control Products

NY Mailing Address: PO Box 410, Smithtown, NY 11787

350 Rabro Drive
Hauppauge, NY 11788
631/348-0282
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2101 W. Crescent Ave., Suite D
Anaheim, CA 92801
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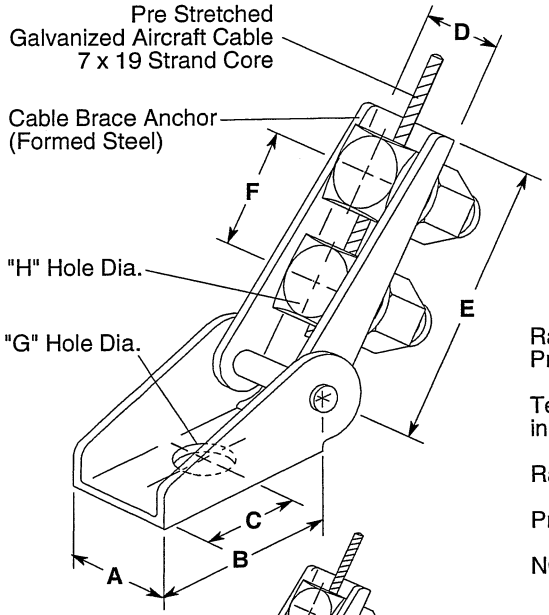
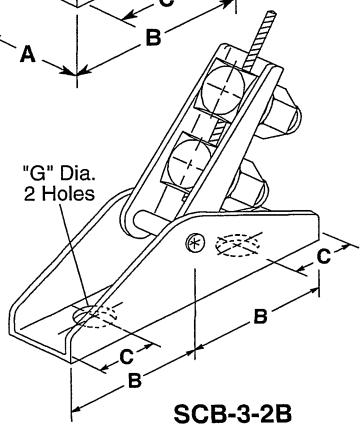
CERTIFIED FOR :
JOB NAME :
CUSTOMER :
CUSTOMER P.O. :
MASON M.I. :
DWG NO. :

TYPE
SCB
Seismic Cable Brace Anchor & Assembly

SCB-1,2,3 & 4





SCB-3-2B

TYPE SCB ASSEMBLY RATING AS CONTROLLED BY CABLE BREAK STRENGTH

Size	Cable Diameter (in)	Cable Diameter (mm)	OSHPD Max Ratings (lbs)	OSHPD Max Ratings (kg)
SCB-1	1/8	3	975	442
SCB-2	3/16	5	2050	930
SCB-3 & -3-2B	1/4	6	3150	1429
SCB-4	3/8	10	6875	3119

Ratings are from test data and calculations used to obtain California OSHPD Preapproval Number R-0349.

Testing was supervised and certified by an independant engineer registered in the state of california.

Ratings are based on attachment to steel.

Preferred installation ange is 45° Maximum variation ±15°.

NOTE: Not to be used as a vertical hanger for equipment, duck work or piping. To be used as a seismic restraint only.

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TYPE SCB ANCHOR DIMENSIONS (inches)

Size	A	B	C	D	E	F	G	H
SCB-1	1 3/8	2	1	15/16	3 3/8	1 1/2	9/16	1/2
SCB-2	1 5/8	2 3/4	1 3/8	1 3/16	4 3/8	1 3/4	11/16	5/8
SCB-3	2	3 1/2	1 3/4	1 7/16	4 3/4	2	13/16	3/4
SCB-3-2B	2	4 3/4	1	1 7/16	4 3/4	2	13/16	3/4
SCB-4	3 1/8	5	2 1/2	1 15/16	5 3/4	2 1/4	1 5/16	1

TYPE SCB ANCHOR DIMENSIONS (mm)

Size	A	B	C	D	E	F	G	H
SCB-1	35	51	25	24	86	38	14	13
SCB-2	41	70	35	30	111	44	17	16
SCB-3	51	89	44	37	121	51	21	19
SCB-3-2B	51	121	25	37	121	51	21	19
SCB-4	79	127	64	49	146	57	33	25

TORQUE VALUES

Diameter	Torque Foot Pounds		Torque Kilogram-Meters	
	Minumum	Maximum	Minimum	Maximum
1/2"	25	29	3.5	4.1
5/8"	45	52	6.3	7.3
3/4"	55	64	7.7	9.0

CERTIFICATION DATA

TAG: _____

UNIT: _____

DWN :	CHKD:	DATE :	DWG NO. :

MASON INDUSTRIES, Inc.
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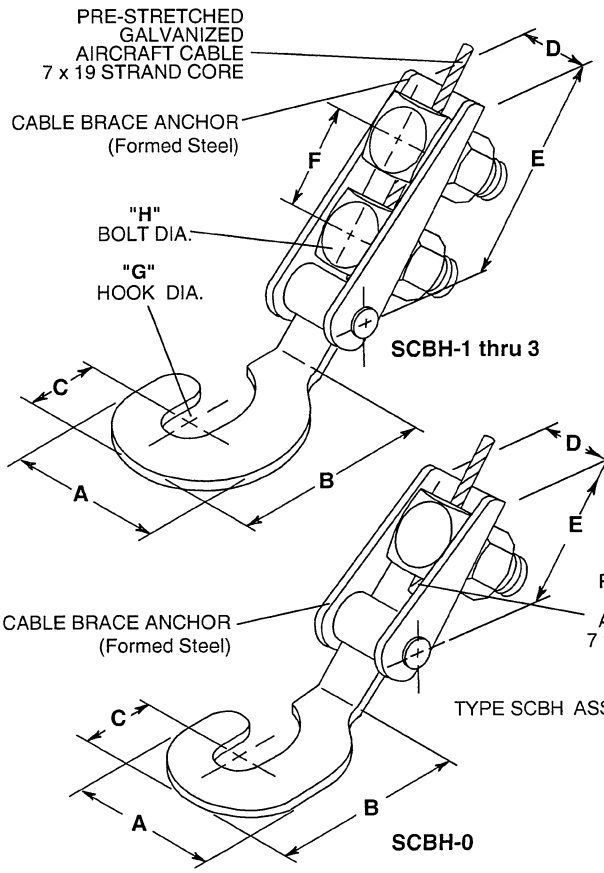
CERTIFIED FOR
JOB NAME : _____
CUSTOMER: _____
CUSTOMER P.O.: _____
MASON M.I.: _____
DWG. NO. : _____

TYPE
SCBH
SEISMIC CABLE BRACE HOOK ANCHOR & ASSEMBLY



TYPE SCBH ASSEMBLY

TYPE SCBH ANCHOR DIMENSIONS (inches mm)

Size	For use with Rod Sizes	A	B	C	D	E	F	G	H
SCBH-0	3/8	1 3/8	2 1/16	1 1/16	15/16	1 3/4	--	3/8	1/2
SCBH-1	1/2, 5/8	1 7/8	2 3/8	1	1	3 3/8	1 1/2	5/8	1/2
SCBH-2	3/4,7/8	2 7/8	3 3/4	1 3/8	1 3/8	4 3/8	1 3/4	7/8	5/8
SCBH-3	1, 1 1/8	3 1/2	4 3/4	1 3/4	1 3/4	4 3/4	2	1 1/8	3/4
SCBH-0	10	35	50	17	24	44		10	13
SCBH-1	13, 16	48	60	25	25	86	38	16	13
SCBH-2	19, 22	73	95	35	30	111	44	22	16
SCBH-3	25, 28	89	121	44	37	121	51	29	19

TORQUE VALUES

Diameter	Torque Foot Pounds		Torque Kilogram-Meters	
	Minumum	Maximum	Minimum	Maximum
1/2"	25	29	3.5	4.1
5/8"	45	52	6.3	7.3
3/4"	55	64	7.7	9.0

RATINGS AS CONTROLLED BY CABLE BREAK STRENGTH

Size	Cable Dia. (in)	Cable Dia. (mm)	OSHPD Max. Ratings (lbs)	OSHPD Max. Ratings (kgs)
SCBH-0	1/16	(1.5)	240	(110)
SCBH-1	1/8	(3.0)	975	(442)
SCBH-2	3/16	(5.0)	2050	(930)
SCBH-3	1/4	(6.0)	3150	(1429)

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Ratings for SCBH-1 thru -3 are from test data and calculations used to obtain California OSHPD Preapproval Number OPA-0349. Testing was supervised and certified by an independent engineer regestered in the state of California. Ratings are based on attachment to steel. SCBH assemblies will fit rod sizes as tabulated. Prefered installation angle is 45 degrees. Maximum variation is ± 15 degrees

CERTIFICATION DATA

TAG : _____
UNIT _____

DWN :	CHKD:	DATE :

DWG NO. :