



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY

APPLICATION #: OPM-0598

OSHPD Preapproval of Manufacturer's Certification (OPM)

Type: [X] New [] Renewal/Update

Manufacturer Information

Manufacturer: bioMérieux

Manufacturer's Technical Representative: Mark Fanning

Mailing Address: 595 Anglum Road, Hazelwood, MO 63042

Telephone: (314) 506-8039 Email: mark.fanning@biomerieux.com

Product Information

Product Name: Benchtop & Vitek Instruments

Product Type: Medical Analyzers

Product Model Number: Vitek 2, Vitek XL, VITEK 2 Compact, Vitek Prime, Vitek

General Description: Instruments perform bacterial ID and AST testing

Applicant Information

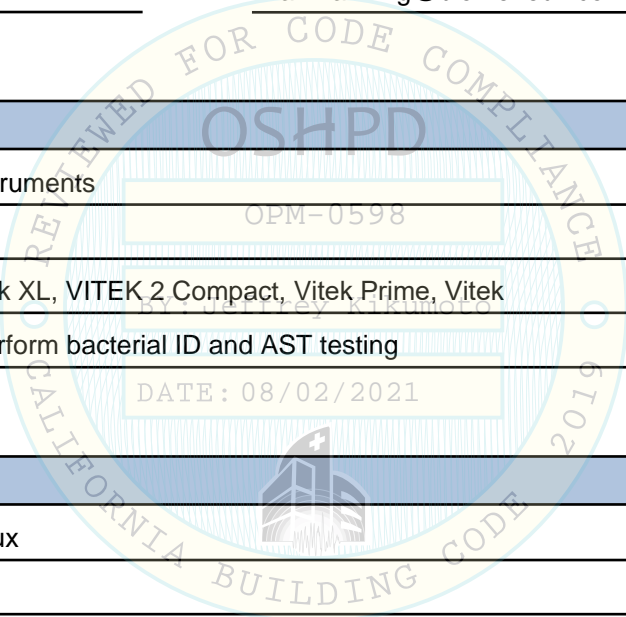
Applicant Company Name: bioMérieux

Contact Person: Mark Fanning

Mailing Address: 595 Anglum Road, Hazelwood, MO 63042

Telephone: (314) 506-8039 Email: mark.fanning@biomerieux.com

Title: Principal Engineer



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FACILITIES DEVELOPMENT DIVISION**

Registered Design Professional Preparing Engineering Recommendations

Company Name: CYS STRUCTURAL ENGINEERS, INC.

Name: Dieter Siebald

California License Number: S4346

Mailing Address: 2495 Natomas Park Drive, Suite 650, Sacramento, CA 95833

Telephone: (916) 920-2020

Email: dieters@cyseng.com

OSHPD 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, 2019 (CBSC 2019) 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 2019 may be used when approved by OSHPD prior to testing.

Analysis

Experience Data

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

OSHPD Approval

Date: 8/2/2021

Name: Jeffrey Kikumoto

Title: Senior Structural Engineer

Condition of Approval (if applicable): _____

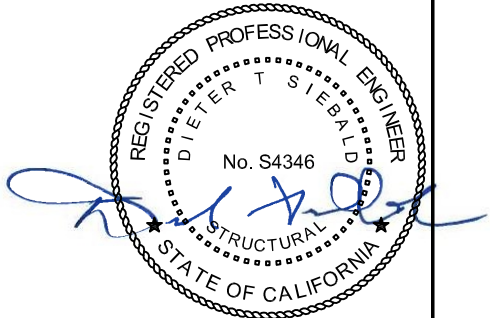
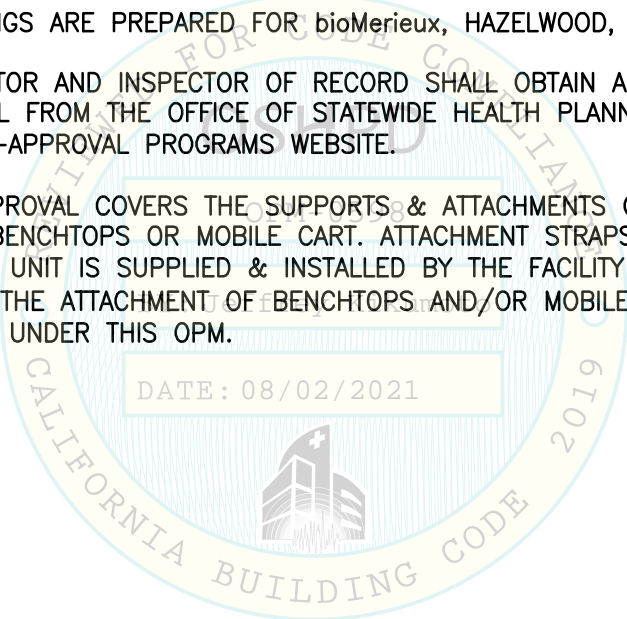




OPM-0598
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- NOTES:**
1. THESE DRAWINGS ARE PREPARED FOR bioMerieux, HAZELWOOD, MO.
 2. THE CONTRACTOR AND INSPECTOR OF RECORD SHALL OBTAIN A COPY OF THIS PRE-APPROVAL FROM THE OFFICE OF STATEWIDE HEALTH PLANNING & DEVELOPMENT (OSHPD) PRE-APPROVAL PROGRAMS WEBSITE.
 3. THIS PRE-APPROVAL COVERS THE SUPPORTS & ATTACHMENTS OF THE UNIT TO THE SUPPORTING BENCHTOPS OR MOBILE CART. ATTACHMENT STRAPS & CONNECTION HARDWARE TO UNIT IS SUPPLIED & INSTALLED BY THE FACILITY OR THE FACILITY'S CONTRACTOR. THE ATTACHMENT OF BENCHTOPS AND/OR MOBILE CARTS TO FLOOR IS NOT COVERED UNDER THIS OPM.



SHEET TITLE: TABLE OF CONTENTS

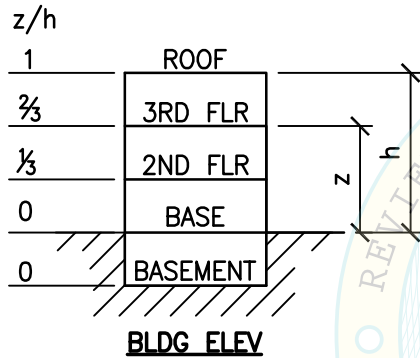
 <p>CYS STRUCTURAL ENGINEERS, INC. 2495 NATOMAS PARK DRIVE, SUITE 650 SACRAMENTO, CA 95833</p>	TEL (916) 920-2020 www.cyseng.com	Job No: 20056 Date: 06/21/2021 Page: 1 of 7
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GENERAL NOTES:

1. THIS OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2019. THE DEMAND (DESIGN FORCES) FOR USE W/ THIS OPM MUST BE BASED ON THE CBC 2019.
2. IT IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD FOR A SITE SPECIFIC PROJECT TO VERIFY:
 - A. THE ADEQUACY OF THE NEW OR (E) STRUCTURE TO RESIST THE FORCES & WT SPECIFIED FOR EACH EQUIP IN ADDITION TO ALL OTHER LOADS. PROVIDE & DESIGN SUPPLEMENTARY MEMBERS AS REQUIRED.
 - B. THAT THE INSTALLATION IS IN CONFORMANCE W/ THE CBC 2019 & W/ THE DTLs SHOWN IN THIS PRE-APPROVAL.
 - C. THAT THE ACTUAL EQUIP'S WT, CENTER OF GRAVITY (CG) LOCATION, ATTACHMENT LOCATIONS, ATTACHMENT DTLs, & THE MATERIAL & GA OF THE EQUIP WHERE ATTACHMENTS ARE MADE, AGREE W/ THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.
3. ATTACHMENT RESTRAINTS MUST BE INSTALLED IN ACCORDANCE WITH MFR'S INSTRUCTIONS & NOTES ON PG 7.
4. TWO (2) CASES OF ATTACHMENT ARE SPECIFIED & PRESENTED IN THIS PRE-APPROVAL:



CASE 1: CASE 1 IS FOR THE USE OF 5- RESTRAINT STRAPS PER SIDE. SEE TABLE BLW FOR ALLOWABLE S_{DS} & z/h COMBINATIONS.

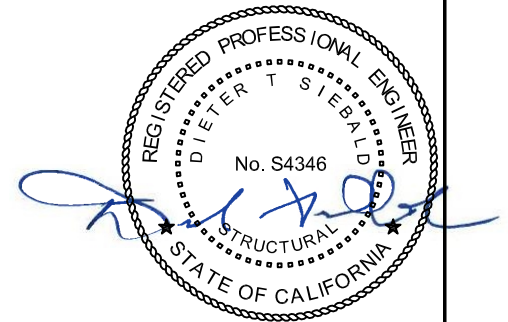
CASE 1 LRFD S_{DS} & z/h COMBOS

	S_{DS}	z/h	F_p	E_v
(1)	2.50	0.0	1.125	0.500
(2)	2.50	0.25	1.500	0.500
(3)	2.00	0.50	1.600	0.400
(4)	1.60	0.75	1.600	0.320
(5)	1.45	0.90	1.624	0.290

CASE 2: CASE 2 IS FOR THE USE OF 3- RESTRAINT STRAPS PER SIDE. SEE TABLE BLW FOR ALLOWABLE S_{DS} & z/h COMBINATIONS.

CASE 2 LRFD S_{DS} & z/h COMBOS

	S_{DS}	z/h	F_p	E_v
(1)	2.00	0.0	0.900	0.400
(2)	1.60	0.25	0.960	0.320
(3)	1.20	0.50	0.960	0.240
(4)	0.95	0.75	0.950	0.190
(5)	0.85	0.90	0.952	0.170



SHEET TITLE: GENERAL NOTES



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ABBREVIATIONS:

⊙	AT	LBS	POUNDS
ABV	ABOVE	LLH	LONG LEG HORIZONTAL
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	LLV	LONG LEG VERTICAL
BLDG	BUILDING	LRFD	LOAD AND RESISTANCE FACTOR DESIGN
BLW	BELOW	MAX	MAXIMUM
CBC	CALIFORNIA BUILDING CODE	MFR	MANUFACTURER
CG	CENTER OF GRAVITY	MIN	MINIMUM
⊕	CENTERLINE	MTL	METAL
CONC	CONCRETE	NO. (#)	NUMBER OR POUNDS
COORD	COORDINATE	NWC	NORMAL WEIGHT CONCRETE
DBL	DOUBLE	OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING & DEVELOPMENT
DIA (ϕ)	DIAMETER	PSI	POUNDS PER SQUARE INCH
DTL	DETAIL	SEOR	STRUCTURAL ENGINEER OF RECORD
(E)	EXISTING CONDITION	SLWC	SAND-LIGHTWEIGHT CONCRETE
ELEV	ELEVATION	SS	STAINLESS STEEL
EQUIP	EQUIPMENT	STD	STANDARD
f'c	MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE	STL	STEEL
FLR	FLOOR	Tu	ANCHORAGE TENSION REACTION DUE TO SEISMIC FORCE AT LRFD
FT (')	FOOT/FEET	THRD	THREAD OR THREADED
Fy	SPECIFIED MINIMUM YIELD STRESS OF STEEL	TYP	TYPICAL
GA	GAUGE	Vu	ANCHORAGE SHEAR REACTION DUE TO SEISMIC FORCE AT LRFD
IN (")	INCH	W/	WITH
KSI	KIPS PER SQUARE INCH	Wp	OPERATING WEIGHT
		WT	WEIGHT

DESIGN CRITERIA

SUPPORT & ATTACHMENT DESIGN IS PER 2019 CBC AT LRFD LEVEL FORCES.

OTHER MECHANICAL OR ELECTRICAL COMPONENTS PER TABLE 13.6-1 OF ASCE 7-16 INCLUDING SUPPLEMENT #1 & ERRATA:

$$a_p = 1.0 \quad R_p = 1.5 \quad I_p = 1.5$$

Wp AS NOTED ON EQUIP DRAWING SHOWN ON PG 4

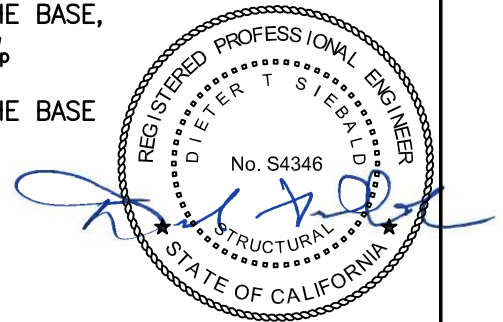
FOR CASE 1 (5- RESTRAINT STRAPS PER SIDE) - UPPER FLRS ABV THE BASE,
SEE PG 2 FOR S_{DS} & z/h VALUES $F_p = 1.624 W_p$

FOR CASE 2 (3- RESTRAINT STRAPS PER SIDE) - UPPER FLRS ABV THE BASE
SEE PG 2 FOR S_{DS} & z/h VALUES $F_p < 0.960W_p$

ASD LOAD COMBINATIONS

$$(0.6 - 0.14 S_{DS}) D - \Omega_0 F_p \text{ (FOR MAX TENSION)}$$

$$(1.0 + 0.14 S_{DS}) D + \Omega_0 F_p \text{ (FOR MAX COMPRESSION)}$$



SHEET TITLE: ABBREVIATIONS & DESIGN CRITERIA



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bioMerieux
BENCHTOP & VITEK INSTRUMENTS



EQUIPMENTS DIMENSIONS:

bioMerieux DIMENSIONS & WEIGHTS

INSTRUMENT	WIDTH W (IN)	DEPTH D (IN)	HEIGHT H (IN)	H _{CG} (IN)	WEIGHT W _p (LBS)
VITEK	30.0	26.4	27.0	13.5	185
VITEK PRIME	57.8	27.9	27.1	13.5	350
VITEK 2	39.4	27.4	26.3	13.1	243
VITEK 2 COMPACT	28.3	23.6	26.8	13.4	165
VITEK XL	55.1	27.5	26.3	13.5	320

NOTE:

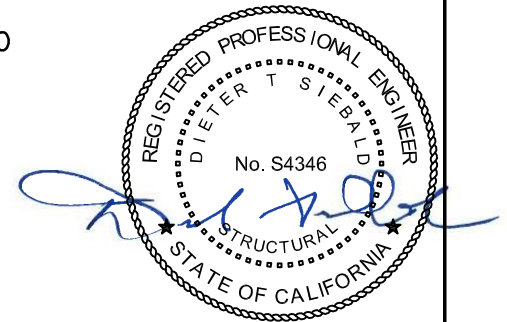
TABULATED VALUES ABV ARE FOR THE INSTRUMENT ONLY. IT DOES NOT INCLUDE THE SUPPORT CART OR BENCHTOP, PROVIDED BLW.

SUPPORT CART DIMENSIONS & WEIGHTS

MANUFACTURER	MODEL	WIDTH W (IN)	DEPTH D (IN)	HEIGHT H (IN)	WEIGHT W _p (LBS)
ANTHRO	VTK2 27217	48.0	28.0	32.5	157
ANTHRO	VTK2 27218	60.0	28.0	32.5	188
BENCHPRO	9318077	36.0	28.0	32.5	140
BENCHPRO	9318075	48.0	28.0	32.5	175
BENCHPRO	9318076	60.0	28.0	32.5	205

NOTE:

1. THE COMBINED CTR OF MASS OF THE INSTRUMENT & CART/BENCHTOP IS LESS THAN 4'-0" ABV THE FLR. ATTACHMENT OF CART/BENCHTOP TO THE SUPPORTING STRUCTURE IS NOT COVERED IN THIS OPM.



SHEET TITLE: EQUIPMENT DIMENSIONS



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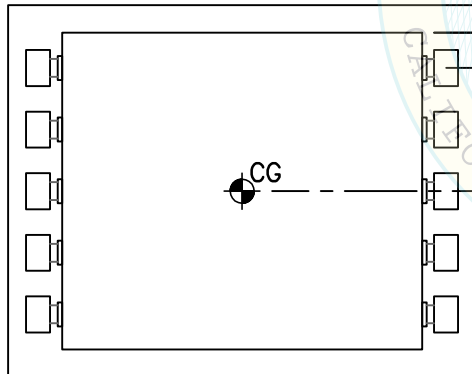
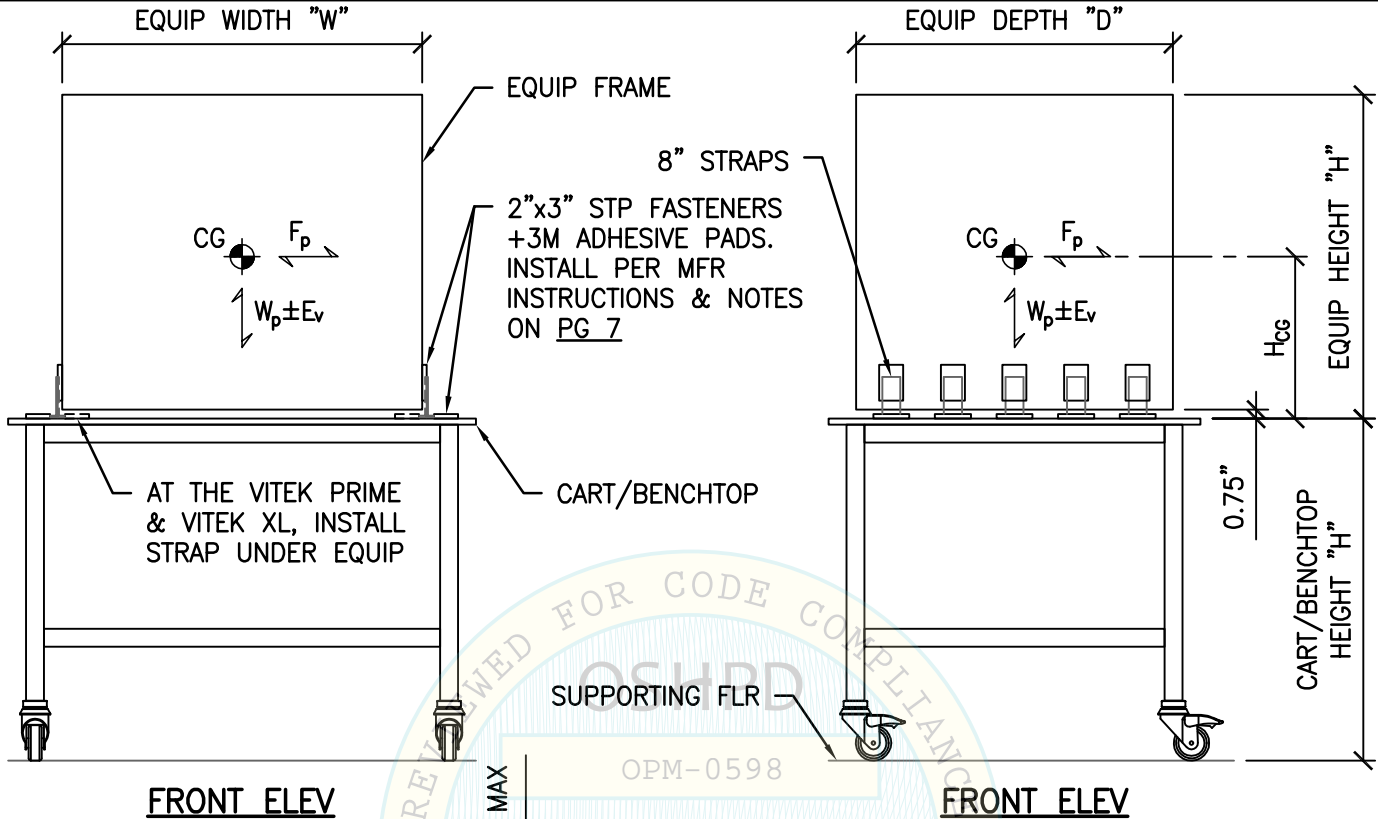
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BENCHTOP & VITEK INSTRUMENTS



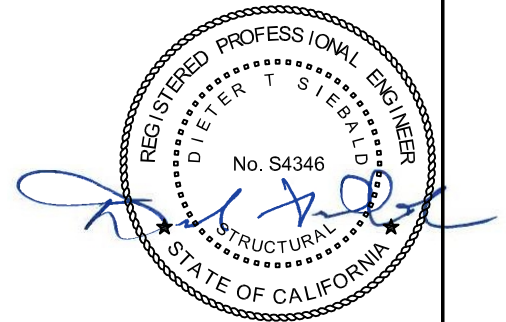
FRONT ELEV

FRONT ELEV

PLAN VIEW

NOTES:

1. THE COMBINED CTR OF MASS OF THE INSTRUMENT & CART/BENCHTOP IS LESS THAN 4'-0" ABV THE FLR. ATTACHMENT OF CART/BENCHTOP TO THE SUPPORTING STRUCTURE IS NOT COVERED IN THIS OPM.
2. THE EQUIP FRAME IS BAKED-ON POWDER-COAT FINISH STL.
3. ANTHRO BENCH TOP IS MEDIUM DENSITY FIBERBOARD W/ A THERMOPLASTIC LAMINATE.
4. BENCHPRO SURFACE IS PHENOLIC RESIN.



SHEET TITLE: CASE 1 ATTACHMENT LOCATIONS
(5- STRAP CONFIGURATION)



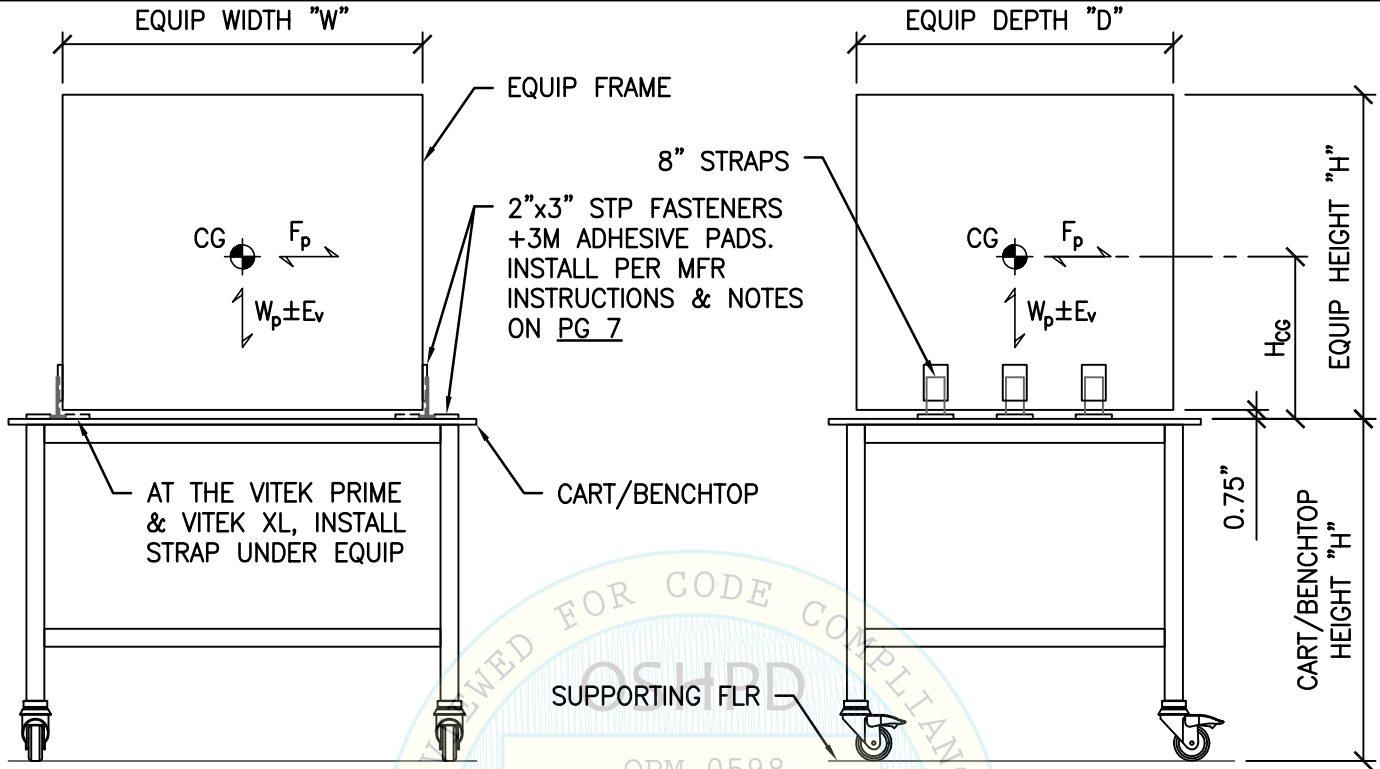
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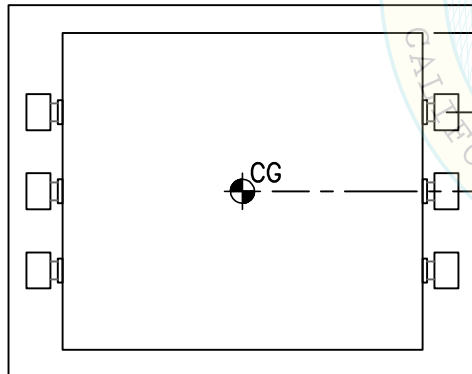
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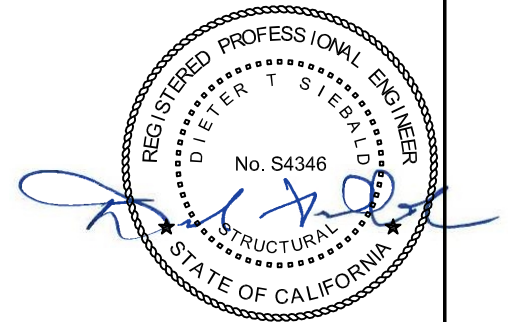
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PLAN VIEW

NOTES:

1. THE COMBINED CTR OF MASS OF THE INSTRUMENT & CART/BENCHTOP IS LESS THAN 4'-0" ABV THE FLR. ATTACHMENT OF CART/BENCHTOP TO THE SUPPORTING STRUCTURE IS NOT COVERED IN THIS OPM.
2. THE EQUIP FRAME IS BAKED-ON POWDER-COAT FINISH STL.
3. ANTHRO BENCH TOP IS MEDIUM DENSITY FIBERBOARD W/ A THERMOPLASTIC LAMINATE.
4. BENCHPRO SURFACE IS PHENOLIC RESIN.



SHEET TITLE: CASE 2 ATTACHMENT LOCATIONS
(3- STRAP CONFIGURATION)



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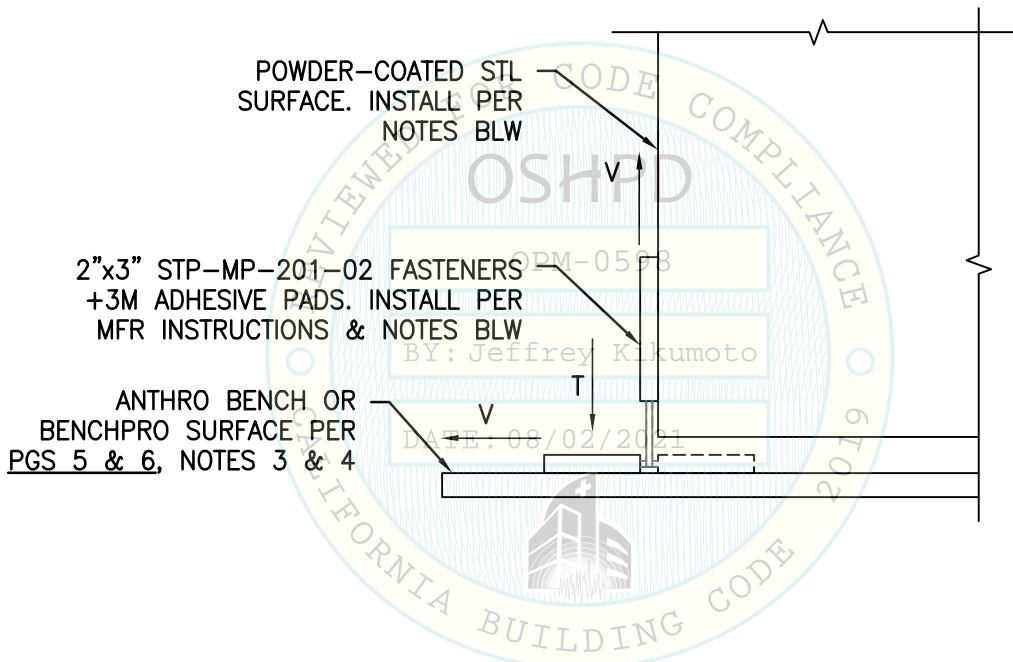
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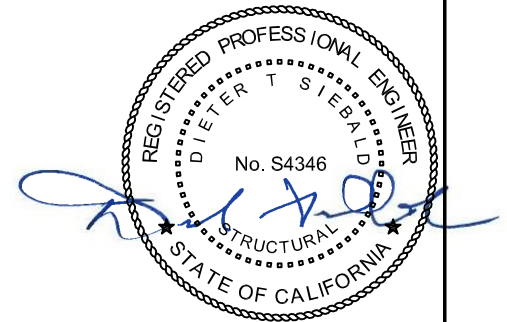
MAX ANCHOR FORCES
AT ASD AT EA
BRACKET

	T	V
<u>CASE 1</u> $F_p \leq 1.624W_p$	40#	24#
<u>CASE 2</u> $F_p \leq 0.960W_p$	39#	24#

1. THE F_p EQUATIONS HERE ARE REPRESENTED AT STRENGTH LEVELS.
2. TABULATED DEMAND LOADS SHOWN ARE AT THE INTERFACE BETWEEN THE PAD & THE TABLETOP SURFACE.



NOTE:
FOLLOW MFR'S INSTRUCTIONS FOR ADHESION OF FOAM ADHESIVE TO BOND SURFACE AS FOLLOWS: LIGHTLY ABRABE THE BOND AREA OF SURFACES (POWDER-COATED STL, SS, PHENOLIC, THERMOPLASTIC LAMINATE) W/ A SCOTCHBRITE 7447 PAD & THEN CLEAN W/ A 70:30 ISOPROPYL ALCOHOL (IPA)/WATER SOLUTION, ALLOWED TO DRY PRIOR TO APPLICATION OF THE ADHESIVE PADS



SHEET TITLE: ATTACHMENT DETAIL TO MOBILE CART OR BENCHTOP



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