

APPLICATION FOR OSHPD PREAPPROVAL OF	C	FFICE USE ONLY
MANUFACTURER'S CERTIFICATION (OPM)	APPLICATION #:	OPM-0402-13
OSHPD Preapproval of Manufacturer's Certification (OPM)		
Type: 🗌 New 🛛 Renewal 🗌 Update to Pre-CBC 2013 O	PA Number:	
Manufacturer Information		
Manufacturer:bioMérieux, Inc.		
Manufacturer's Technical Representative: Zack Blair		
Mailing Address: 595 Anglum Road, Hazelwood, MO 63042		
Telephone: (314) 791-2736 Email: DZack.B	LAIR@biomerieux.c	com
Product Information	M.D.	
Product Name: VITEK MS (mass spectrometer)	· F	
Product Type:Mass spectrometer classified as other mechanical or electrica	components per ASC	CE 7-10 Table 13.6-1
Product Model Number: 410895		
General Description: VITEK® MS is an automated mass spectrometry		on system that uses Matrix
Assisted Laser Desorption Ionization Time-of-Flight technology (MALDI-T	OF) to detect and id	entify bacteria and fungi.
The component is roughly 76"H x 30"W x 34"D and weighs approximately	805 lbs.	
Applicant Information	- THI	
Applicant Company Name: CYS STRUCTURAL ENGINEERS, INC.	50 <sup>2</sup>	
Contact Person: David Calia		
Mailing Address: 2495 Natomas Park Drive, Suite 650, Sacramento,	CA 95833	
Telephone: (916) 920-2020 Email: davide	@cyseng.com	
I hereby agree to reimburse the Office of Statewide Health Placcordance with the California Administrative Code, 2016.	anning and Deve	lopment review fees in
Signature of Applicant: David M. Calia		Date: 2019-08-29
Title: V.P. of Bus. Dev. & Marketing Company Name: CYS S	TRUCTURAL ENGI	NEERS, INC.
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-700 (REV 12/16/15)	MMM	COSHPD "Equitable Healthcare Accessibility for California"
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## OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations
Company Name:CYS STRUCTURAL ENGINEERS, INC.
Name: David M. Calia California License Number: SE5614
Mailing Address: 2495 Natomas Park Drive, Suite 650, Sacramento, CA 95833
Telephone: (916) 920-2020 Email: davidc@cyseng.com
OSHPD Special Seismic Certification Preapproval (OSP)
<ul> <li>Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required)</li> <li>Special Seismic Certification is not preapproved</li> </ul>
Certification Method(s)
□       Testing in accordance with:       □       ICC-ES AC156       □       FM 1950-16         ⊠       Other*       (Please Specify):       Calculations in accordance with the 2016 CBC.
E COM 0402 12
<ul> <li>*Use of criteria other than those adopted by the California Building Standards Code, 2016 (CBSC 2016) 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 2016 may be used when approved by OSHPD prior to testing.</li> <li>Analysis</li> <li>Experience Data</li> <li>Combination of Testing, Analysis, and/or Experience Data (Please Specify):</li> </ul>
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 2016 & ALL PRE-2016 CODE BASED PROJECTS
Signature: Date: 10/2/2019
Print Name:Jeffrey Kikumoto
Title: <u>Structural Engineer</u> Condition of Approval (if applicable):
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-700 (REV 12/16/15) *Equitable Healthcare Accessibility for California" Page 2 of 2

	GENERAL INFORMATION TABLE OF CONTENTS GENERAL NOTES DESIGN CRITERIA ABBREVIATIONS CASE 1 – TYPICAL STRUT DETAILS
	VITEK MASS SPECTROMETER BASE PLAN & ELEVATIONS STEEL TUBULAR CHASSIS PLAN & ELEVATIO SEISMIC BRACKET DETAIL
	SUPPORT & ATTACHMENT DETAILS
EOR CODE C OSHPD OPM-0402-13	NOTES: THESE DRAWINGS ARE PREPARED FOR UNDER THE LAWS OF MISSOURI, HAVING 100 RODOLPHE STREET, DURHAM, NC 2
USHPD	1. THE CONTRACTOR AND THE INSPEC PRE-APPROVAL FROM THE OSHPD
へ 日 日 日 日	2. THIS PRE-APPROVAL COVERS THE LABORATORY EQUIPMENT TO THE ST
BY: Jeffrey Kikumo	
C DATE: 10/02/2019	70
CATE: 10/02/2019 THOORNIA BUILDING	CODE

SHEET TITLE: SHEET INDEX

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bioMérieux VITEK MASS SPECTROMETER (MODEL 410895) **EQUIPMENT SUPPORTS & ATTACHMENTS** 



CYS STRUCTURAL ENGINEERS, INC. 2495 NATOMAS PARK DRIVE, SUITE 650 SACRAMENTO, CA 95833

TEL (916) 920-202 www.cyseng.cor

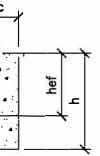
bioMérieux VITEK MASS SPECTROMETER MODEL 410895 OPM-0402-13

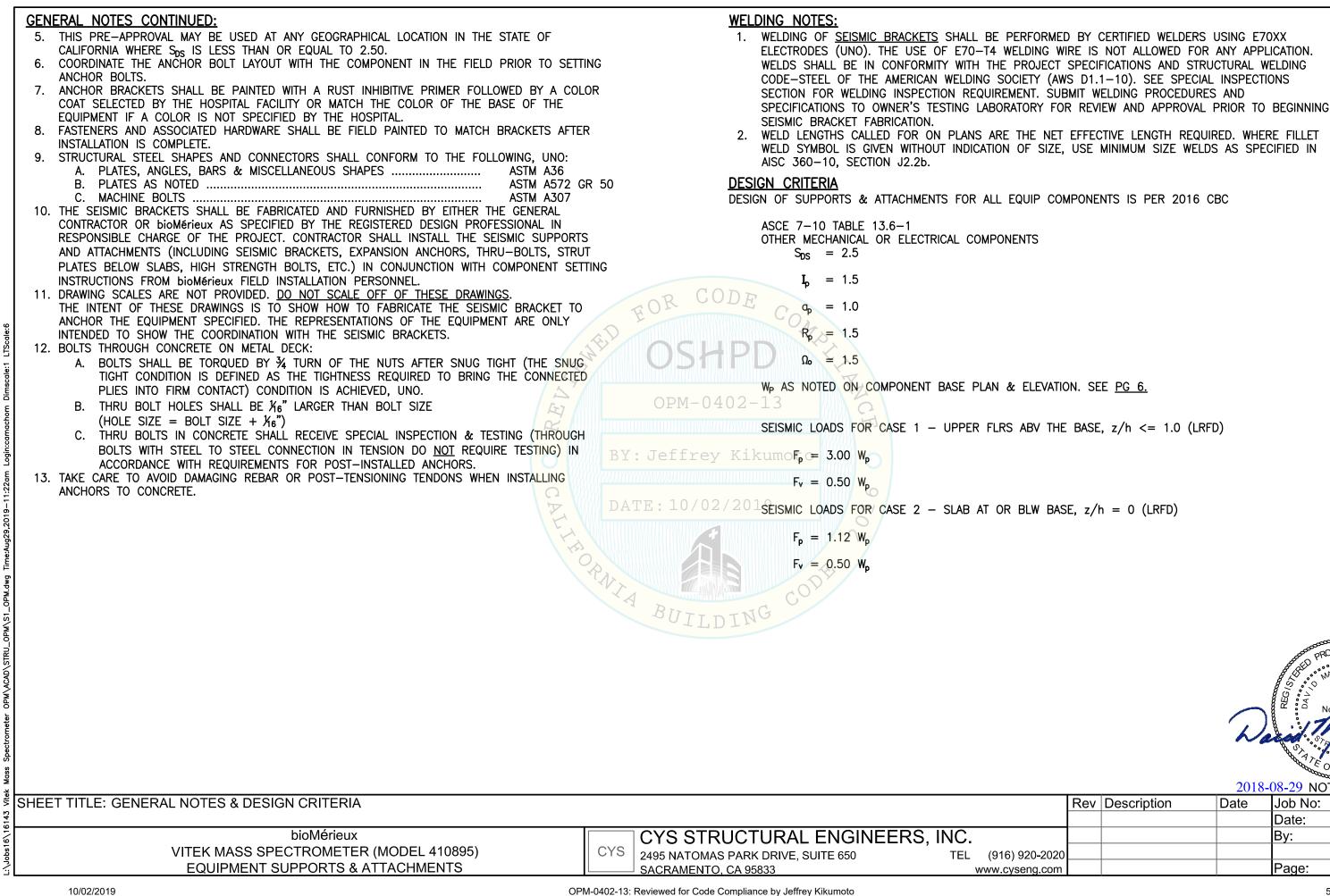
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- R bioMérieux, INC., A COMPANY DULY ORGANIZED NG ITS PRINCIPAL PLACE OF BUSINESS AT 27712
- ECTOR SHALL OBTAIN A COPY OF THIS WEBSITE.
- SUPPORTS AND ATTACHMENTS OF THE STRUCTURE.

			2018-	HC/S/S/S/	ESS /OWY THEW S5614 STREET CTURM CALIFOR SEOR	
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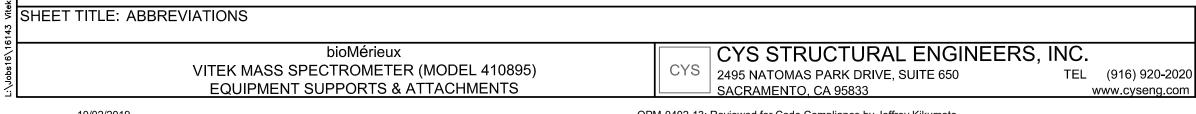
GENERAL_NOTES:								<b>_</b>			
1. THIS OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2	2016.	3D. TEST VALUE	S: APPLY TEST	I LOADS TO	ANCHORS V	ITHOUT RE	-MOVING TH	E NUT.			
THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2016.						<mark>⊁ ∼</mark> ⊀					
2. IT IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD FOR A SITE SPECIFIC PROUVERIFY:			A	LL-THRD RC	)D 🔨 📲						
A. THE ADEQUACY OF THE NEW OR EXISTING STRUCTURE TO RESIST THE FORCES AND WEIGHT SP	PECIFIED			-			$\rightarrow$				
FOR EACH COMPONENT IN ADDITION TO ALL OTHER LOADS. PROVIDE AND DESIGN SUPPLEMENT.						8					
MEMBERS AS REQUIRED.					j b b	8	hef				
B. THAT THE ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPE	ENINGS.			~							
C. THAT THE ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY NEW OR EXISTING AN THE SPACING SHOWN IN THE TEST VALUES TABLE ON THIS PAGE IS THE REQUIRED SPACING F				1	· · · · ·	┝╝╤╧╤╋┯┯ ╸╷╴╺╷╎					
ANCHORS OF OTHER DIAMETERS AND EMBEDMENTS WILL VARY.				i.	4						
D. THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2016 CBC AND WITH THE DETAILS SHO	WN IN										
THIS PRE-APPROVAL.					do						
E. THAT THE ACTUAL EQUIPMENT'S WEIGHT, CENTER OF GRAVITY (CG) LOCATION, ANCHOR LOCATION					4	1					
ANCHOR DETAILS, AND THE MATERIAL AND GAGE OF THE EQUIPMENT WHERE ATTACHMENTS ARE AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.	MADE,				ADHESIVE						
3A. EXPANSION ANCHORS INSTALLED IN NORMAL WEIGHT OR SAND-LIGHTWEIGHT CONCRETE SHALL BE	F			(THRI	D ROD / RE	INFORCING	5 BAR)				
STAINLESS STEEL HILTI KB-TZ EXPANSION ANCHORS COMPLYING WITH ICC-ES ESR-1917 REISSU											-
MAY 2019. ADHESIVE ANCHORS INSTALLED IN NORMAL WEIGHT CONCRETE SHALL BE ASTM F593			POS	ST-INSTALL	ED <u>ADHES</u>	IVE ANCH	IOR SCHE	DULE			
(316) INSTALLED USING HILTI HIT-RE 500 V3 ADHESIVE COMPLYING WITH ICC-ES ESR-3814	OR CO	DR	r								4
REISSUED JANUARY 2019, REVISED APRIL 2019.	WITH E	ANCHOR			FECTIVE		MIN CONC	MIN AB	n – – – – – – – – – – – – – – – – – – –		
B. INSTALLATION: INSTALL THE POST-INSTALLED DRILLED -IN CONCRETE ANCHORS IN ACCORDANCE THE REQUIREMENTS GIVEN IN THE ICC EVALUATION REPORT FOR THE SPECIFIC ANCHOR AND THE		& DIA (IN			EMBED TH	CKNESS	EDGE DISTANCE		tension test	CONDITION OF	
PARAMETERS GIVEN IN THE TABLES ON THIS PAGE.						INCH)	(INCH)		LOAD (LBS)	ANCHORAGE	
C. TESTING:	DJI	FU -			hef	h	c	(INCH)			
<ul> <li>JOB TESTING: FOR VERIFYING SATISFACTORY INSTALLATION WORKMANSHIP, PERFORM JOB SITE</li> </ul>	É	1/8								A.	1
TESTING IN ACCORDANCE WITH THE TEST LOAD TABLE PROVIDED IN THIS DOCUMENT. TEST	DV ANY ODM-0/	½"¢ HILTI F		0.5625	2.75		12	6.75	2200	CASE 2	
50% OF THE INSTALLED ANCHORS. FOR TENSION TESTING, THE TEST LOAD MAY BE APPLIED METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION IN THE ANCHOR SUCH AS DIRECT F	BY ANY OPM-04	(ASTM_F593 CW ALL THRD		0.5625	2.75	4	12	0.75	2200	CASE Z	
WITH A HYDRAULIC JACK OR CALIBRATED SPRING LOADING DEVICES. FOR TORQUE TESTING, I											
LOAD SHALL BE APPLIED WITH A CALIBRATED TORQUE WRENCH. ALL TESTS SHALL BE CONDI	UCTED IN		POST	-INSTALLE	D MECHAN		CHOR SCH				
THE PRESENCE OF THE INSPECTOR OF RECORD. IF ANY ANCHOR FAILS THE TEST, TEST ALL		Kıkumoto							<u></u>		
ANCHORS. THE TEST SHALL BE PERFORMED 24 HOURS OR MORE AFTER INSTALLATION. TEST	X Y V V A A A X X Y Y Y V V V V V V V V A A A I Y Y V U U A A A A A	ANCHOR INST	ALLATION EFFEC		MIN CONC	MIN			тгот и		
BE DONE PRIOR TO EQUIPMENT INSTALLATION. ALSO REFER TO CBC 1910A.5.5 TESTS FOR POST-INSTALLED ANCHORS IN CONCRETE".		TYPE E	MBED EME	BED DEPTH	THICKNESS	CONC EDGE	MIN AB S		TEST L		CONDITION
<ul> <li>FAILURE/ACCEPTANCE CRITERIA: THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF</li> </ul>	DATE: 10/02	/ 2& DIA (I	NCH) 🕂 (INC	CH) (INCH)		DISTANCE			TENSION	TORQUE	
INSTALLED ANCHORS:		(INCH) h	nom he	ff Èho	h	(INCH)		'''	LOAD (LBS)	(FT-LBS)	
•• HYDRAULIC RAM METHOD: APPLY AND HOLD TEST LOAD FOR A MINIMUM OF 15 SECOND							6.7		. ,	· · ·	
THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD		KB-TZ 304 2.	3125 2.0	00 2.625	SEE	12	PARALLEL		1350	25	CASE 1
WASHERS ARE USED. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT		55 0.375 0					DECK F				
<ul> <li>WASHER UNDER THE NUT BECOMES LOOSE OR BY A CONTINUOUS LOSS OF JACKING PI</li> <li>TORQUE WRENCH METHOD (EXPANSION ANCHORS ONLY): THE APPLICABLE TEST TORQUE</li> </ul>		4. TWO (2) C	ONDITIONS OF	ANCHORAGE	ARE SPECI	FIED AND	PRESENTED	IN THIS	PRE-APPROV	AL:	
BE REACHED WITHIN THE FOLLOWING LIMITS: WEDGE TYPE: ONE-HALF (½) TURN OF THE		-NIG/h		0.05	4						_
	NUT. BUILD		ROOF						FLRS ABV TH IE FLRS ARE		•
					JG (2/11 <= I 31∕4" NWC					DUILI UF	200 000
		<u>-<u></u><sup>2</sup>/<sub>3</sub> 3</u>	RD FLR		= 3000 PSI,		IUFFING U		DECK	PROFE	S SONA COOL
		1/3 2	ND FLR		- 0000 1 31,	wiii vy.				A Stor MAT	HEW
		· · · · · ·			2: ANCHOR					5.0	CP
		0	BASE		OF A BLDG				SSUMED	No. S	5614
		0 BA			E BUILT OF		NWC SLAB			in	C 11.
			/////	(f'c =	= 3000 PSI,	MIN).			Na	STA STAL	
		BL	<u>DG_ELEV</u>							ATT ATT	RNIP
										OF	CALIFUS
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ABF	BREVIATIONS:
0	AT
AB	ANCHOR BOLT
ABV	
ADJ	ADJACENT
AISC	
ASC ASD	
ASD	
AWS	
BLD	
BLW	
BOT	
CBC CG	CALIFORNIA BUILDING CODE CENTER OF GRAVITY
CJP	
CLR	
CLS	
Æ	CENTERLINE
CON	
OR CO CON	
ECCE	CENTER
DBL	DOUBLE
	DIMENSION
DTL	DETAIL DRAWING
OPM - 04 (E)	
COC CTR DBL DIA DIM DTL DWG OPM-04 ((E) EA EE ELEV	EACH
	EACH END
EQU	IP EQUIPMENT MINIMUM ULTIMATE COMPRESSIVE STRENGTH
Q	OF CONCRETE
DATE: 10/02/70	FINISHED FLOOR
FLG	FLANGE
FLR	FLOOR C
FRM FT (	
PV E	SPECIFIED YIELD STRENGTH OF REINFORCING,
	PSI OR SPECIFIED MINIMUM YIELD STRESS
FLG FLR FRM F BUILD GA HEIG ICC	OF STEEL, KSI
BUILDGA	GAUGE
HEIG	HT HT INTERNATIONAL CODE COUNCIL
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KSI	KIPS PER SQUARE INCH



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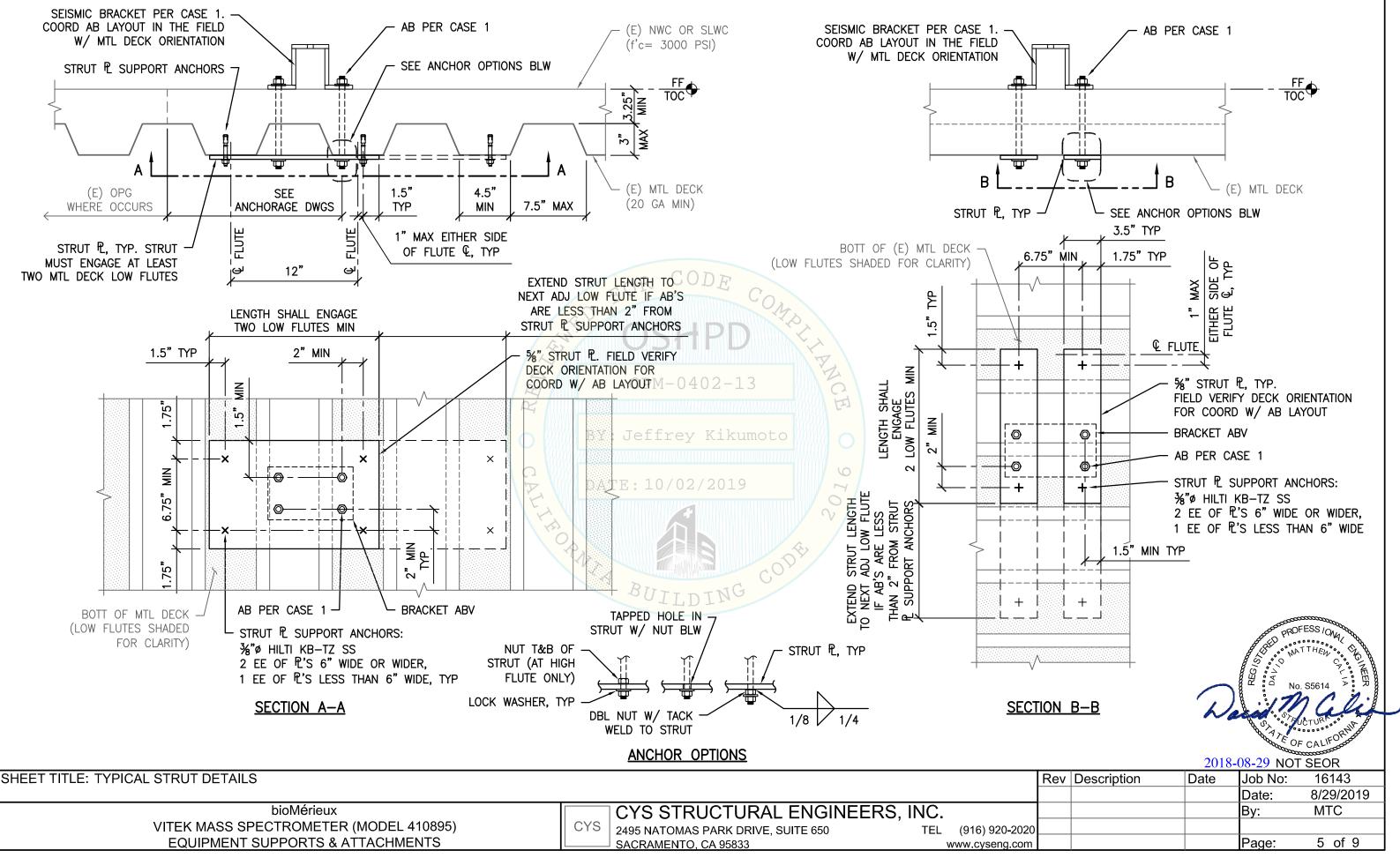
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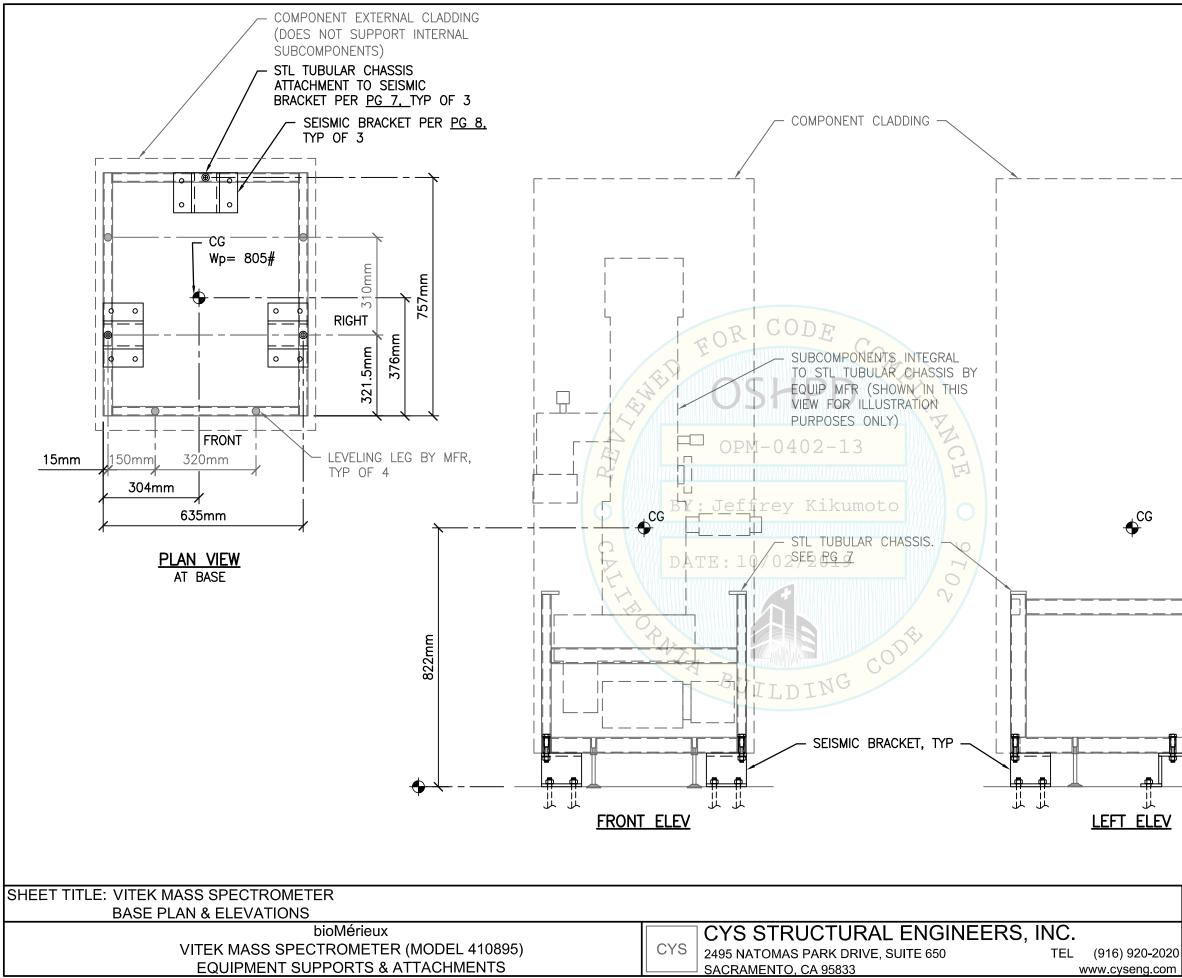
L LBS LRFD LFRS MAX MFR MIN MTL NO. (#) NTS SFS NWC OPG OSHPD PG(S) PSI R REQ SEOR SIM SLWC SOG SQ SS STL T&B THRD TOC Tu TYP UNO V ERT Vu W/ Wp	LENGTH POUNDS LOAD & RESISTANCE FACTOR DESIGN LATERAL FORCE RESISTING SYSTEM MAXIMUM MANUFACTURER MINIMUM METAL NUMBER OR POUNDS NOT TO SCALE NEAR SIDE & FAR SIDE NORMAL WEIGHT CONCRETE OPENING OFFICE OF STATEWIDE HEALTH PLANNING & DEVELOPMENT PAGE(S) PLATE POUNDS PER SQUARE INCH RADIUS REQUIRED STRUCTURAL ENGINEER OF RECORD SIMILAR SAND LIGHT WEIGHT CONCRETE SLAB ON GRADE SQUARE STAINLESS STEEL STEEL TOP & BOTTOM TEMPORARY THREAD OR THREADED TOP OF CONCRETE ANCHORAGE TENSION REACTION DUE TO SEISMIC FORCE TYPICAL UNLESS NOTED OTHERWISE ANCHORAGE SHEAR REAC VERTICAL ANCHORAGE SHEAR REACTION DUE TO SEISMIC FORCE WITH COMPONENT SELF-WEIGHT

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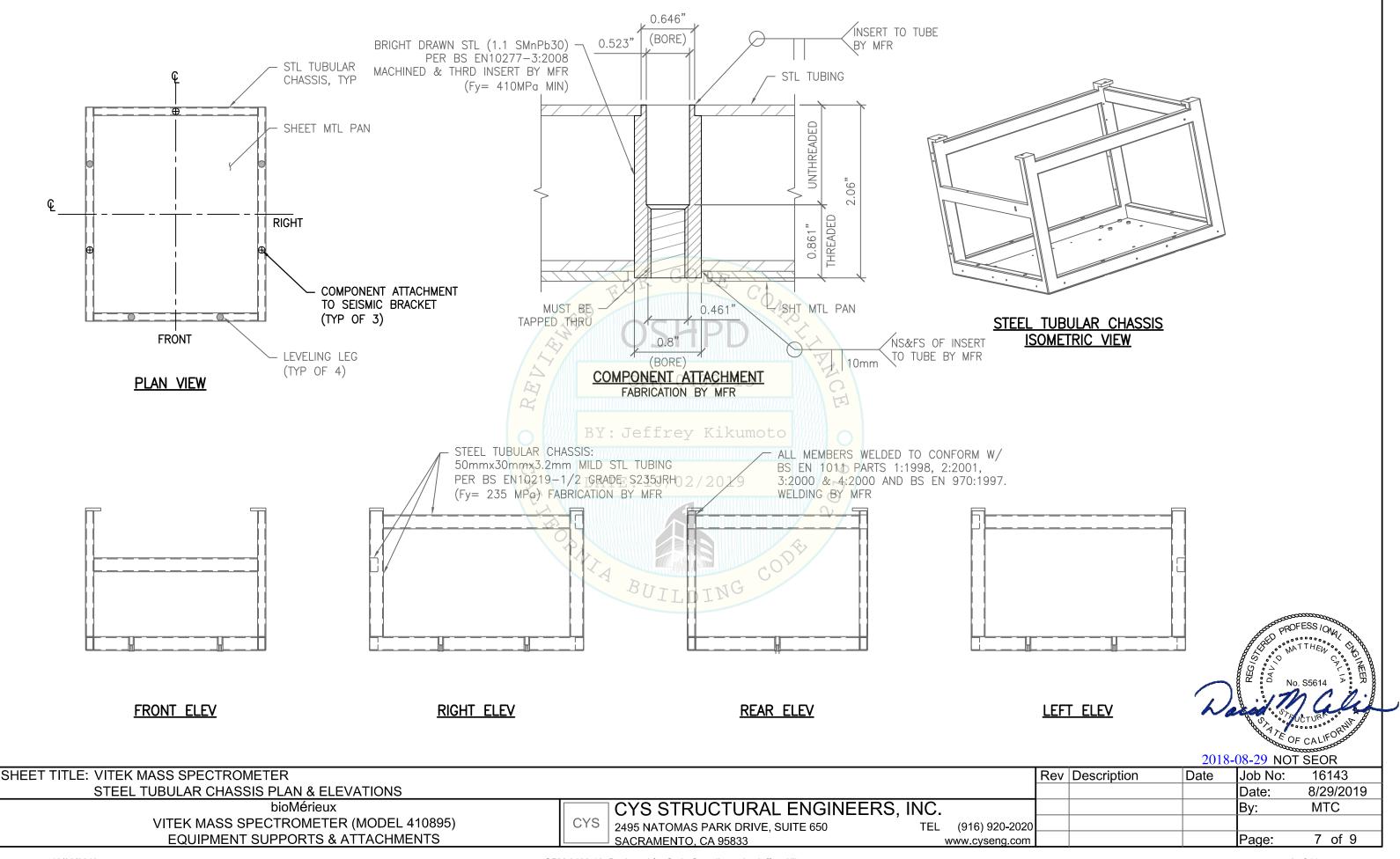
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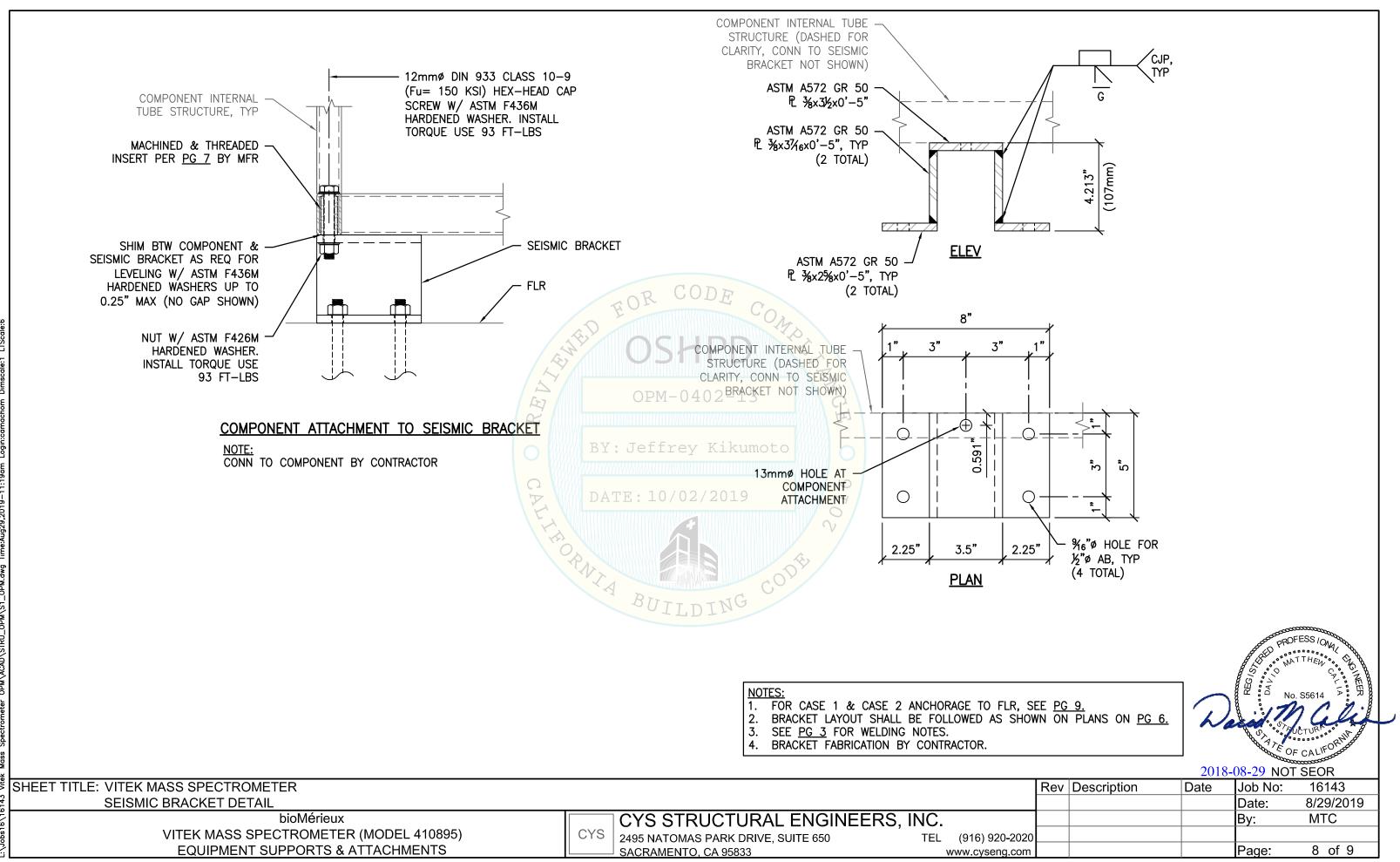
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			NCHOR F RFD AT E		
		T <sub>max</sub>	Cmax	Vmax	
	CASE 1	3878 <b>#</b>	4362 <b>#</b>	1259 <b>#</b> <sup>2</sup>	
	CASE 2	2142# <sup>2</sup>	2625# <sup>2</sup>	472# <sup>2</sup>	
	MUST BE THE SEIS CONFIGU 2. INCLUDES FACTOR ACI 318- FOR TENS 17.2.3.5. 3. SEE <u>PGS</u> FABRICAT REQUIREI BRACKET	S MATERIA (Ω) IN A0 -14 SECTI SION OR 3(c) FOR <u>5 8 &amp; 9</u> ION & IN MENTS OF	ERED BAS CKET AL OVERS CCORDANC ON 17.2. SECTION SHEAR. FOR THE STALLATIO THE SE	SED ON TRENGTH CE W/ 3.4.3(d)	
		-TONED C N SCOPE			
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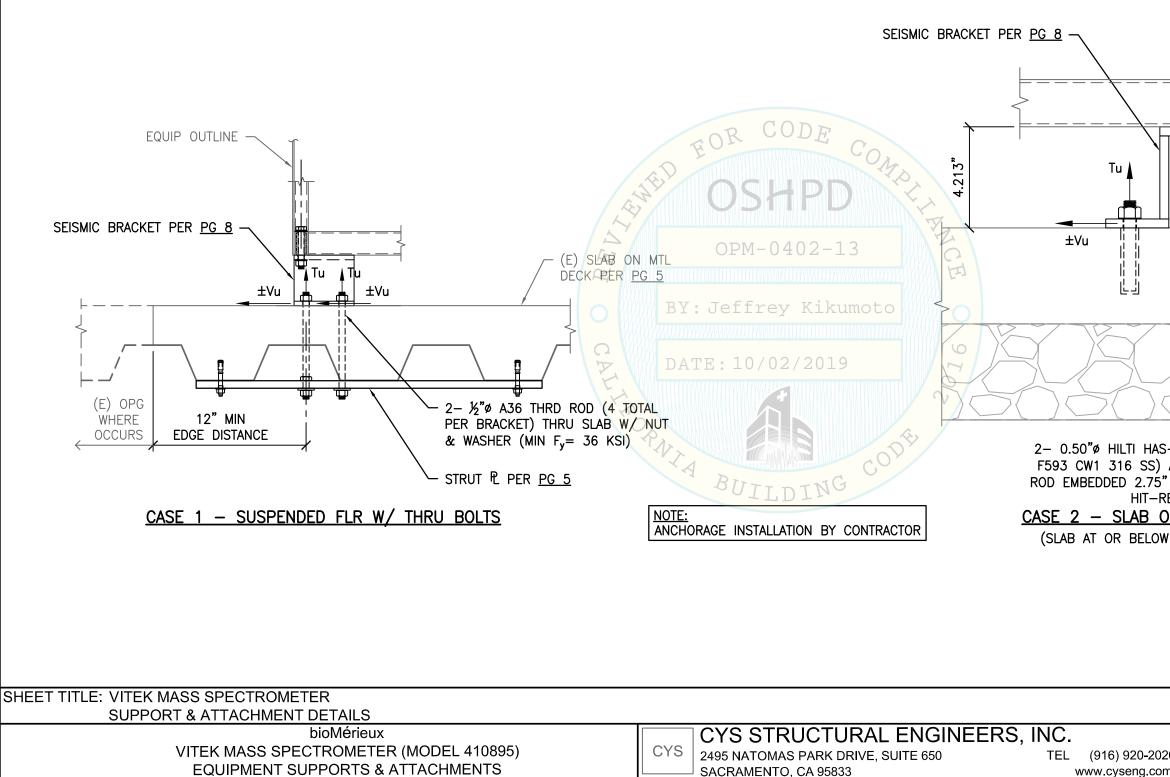


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		CASE 1 h <u>&lt;</u> 1.0	3023 <b>#</b>	726# <sup>1</sup>
		CASE 2 /h = 0	1675# <sup>1</sup>	272# <sup>1</sup>
	1.	FACTOR ( 318-14	(Ω) IN ACCOI SECTION 17.2 OR SECTION	DVERSTRENGTH RDANCE W/ ACI 2.3.4.3(d) FOR 17.2.3.5.3(c)
		- (E) 4"	MIN SOG (f'c	e= 3000 PSI)
:	±Vu       ±Vu                         		EMBED (hef)	, 4 NIN
S-R (AS ALL TH " W/ HI RE 500 <b>DN GR</b>	RD ILTI V3 <b>ADE</b>		5555555555	FESS / OAL
V GRADE	Ξ)	N	H L	
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