

Type:

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY

APPLICATION #: OPM-0595

OSHPD Preapproval	of Manufacturer's	Certification	(OPM)
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X New Renewal/Update

Manufacturer Information

Manufacturer: Abbott Diagnostics Division

Manufacturer's Technical Representative: Claudia Moreno

Mailing Address: 1921 Hurd Drive, Irving, TX 75038

Telephone: (972) 518-7691

Email: claudia.moreno@abbott.com

Product Information

Product Name: Accelerator a3600

Product Type: Unified workstation automated pre/post analytical processing laboratory instruments

Product Model Number: De-capper, De-sealer, Re-capper, Re-sealer, c4000, c8000, c16000, i1000sr, i2000sr, Cartesian Centrifuge, Input/Output Module, Aliquoter, Tube Storage (15,000 tube capacity), Bulk Input Module, Bulk Output Module, Rack Input Module, Rack Input Module, Rack Output Module, U-Turn Module, T-Turn Module, L-Turn Module, Tube Storage (9,000 tube capacity).

General Description: The ACCELERATOR a3600 is a modular system designed to automate pre-analytical and post-analytical processing, sample-handling, and processing in the laboratory. The system consolidates multiple analytical instruments into a unified workstation by employing a common sample processing capability.

Applicant Information

Applicant Company Name: CYS STRUCTURAL ENGINEERS, INC.

Contact Person: Dieter Siebald

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

Telephone: 916-920-2020

Email: dieters@cyseng.com

Title: Structural Engineer/Project Manager

"Access to Safe. Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY

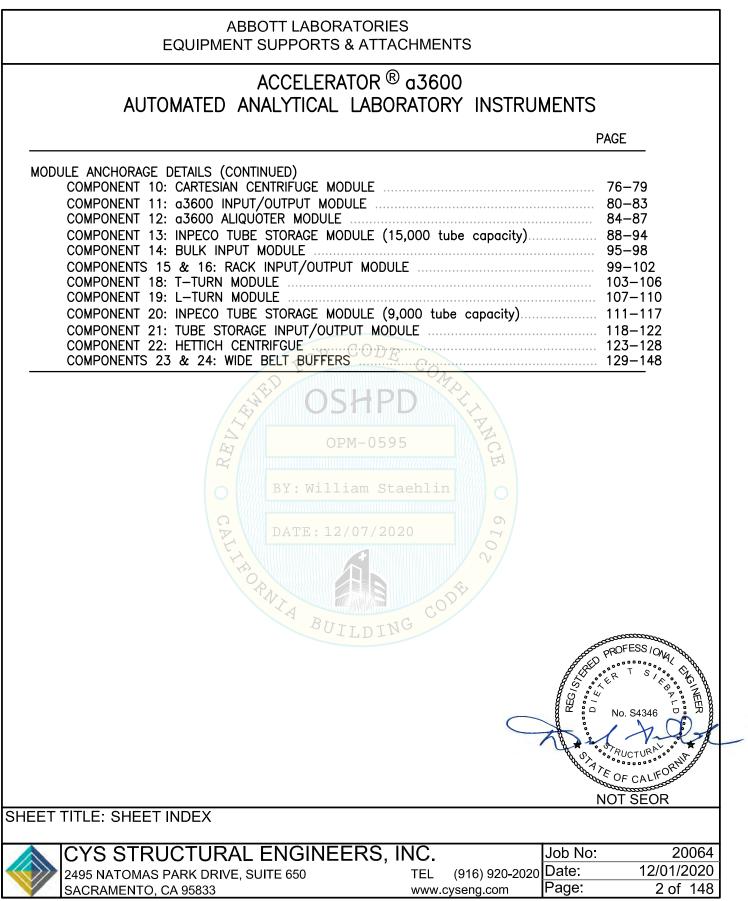


OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professonal Preparing Engineering Reco	ommendations
Company Name: CYS STRUCTURAL ENGINEERS, INC.	
Name: Dieter Siebald Califo	rnia License Number: S4346
Mailing Address: 2495 Natomas Park Drive, Suite 650, Sacramento, 0	CA 95833
Telephone: (916) 920-2020 Email: dieters@c	yseng.com
OSHPD Special Seismic Certification Preapproval (OSP)	
Special Seismic Certification is preapproved under OSP	OSP Number:
CODI	7
Certification Method	COL
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 Sta	
and attachments are not permitted. For distribution system, interior pa criteria other than those adopted in the CBSC 2019 may be used whe	n approved by OSHPD prior to testing.
Analysis	aehlin
Experience Data	20
Combination of Testing, Analysis, and/or Experience Data (Please	e Specify):
The second secon	- Au
A TANK	COD
OSHPD Approval	16
Date: 12/7/2020	
Name: William Staehlin	Title: Senior Structural Engineer
Condition of Approval (if applicable):	



ABBOTT LABORATORIES EQUIPMENT SUPPORTS & ATTACHMENTS	
ACCELERATOR [®] a3600 AUTOMATED ANALYTICAL LABORATORY INSTRUMEN OPM-0595	TS PAGE
GENERAL INFORMATION TABLE OF CONTENTS GENERAL NOTES DESIGN CRITERIA ABBREVIATIONS COMPONENT DIMENSIONS SCHEDULE CASE 1 – TYPICAL STRUT DETAILS	3–6 7 8–9 10–12
MODULE SUB-ASSEMBLY DETAILS (CONNECTION BY ABBOTT) TYPICAL TRACK MODULE COMPONENT 1: DE-SEALER MODULE COMPONENT 2: DE-CAPPER MODULE COMPONENT 3: RE-CAPPER MODULE COMPONENT 4: SEALER MODULE COMPONENT 17: U-TURN MODULE COMPONENT 18: T-TURN MODULE COMPONENT 19: L-TURN MODULE	19-23 24-28 29-33 34-37 38-41 42-46
MODULE SUPPORTS & ATTACHMENTS DETAILS OPM-0595 COMPONENTS 1, 2, 3, 4 & 17: DE-SEALER, DE-CAPPER, RE-CAPPER, SEALER & U-TURN MODULES COMPONENT 5: ARCHITECT c4000 ANALYZER am staehlin COMPONENT 6: ARCHITECT c8000 ANALYZER COMPONENT 7: ARCHITECT c16000 ANALYZER COMPONENT 7: ARCHITECT i000sr ANALYZER COMPONENT 8: ARCHITECT i1000sr ANALYZER COMPONENT 9: ARCHITECT i2000sr ANALYZER	56-59 60-63 64-67 68-71
CONTINUED ON NEXT PAGE NOTES: THESE DRAWINGS ARE PREPARED FOR ABBOTT LABORATORIES, AN ILLINOIS CORPORATION, ABBOTT PARK, ILLINOIS.	
1. THE CONTRACTOR SHALL OBTAIN A COPY OF THIS PRE-APPROVAL FROM THE OSHPD WEBSITE AND PROVIDE ONE COPY FOR THE INSPECTOR OF RECORD.	PROFESS/ON/Y
2. THIS PRE-APPROVAL COVERS THE SUPPORTS AND ATTACHMENTS OF THE LABORATORY EQUIPMENT TO THE STRUCTURE.	No. S4346
SHEET TITLE: SHEET INDEX	
CYS STRUCTURAL ENGINEERS, INC. 2495 NATOMAS PARK DRIVE, SUITE 650 SACRAMENTO, CA 95833 Job Date Page	: 12/01/2020



GENERAL NOTES:

- 1. THIS OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE 2019 CBC. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE 2019 CBC.
- 2. THIS OPM PROVIDES ANCHORAGE DESIGN RECOMMENDATIONS AND INFORMATION FOR INCORPORATION INTO A CONSTRUCTION DOCUMENT SUBMITTAL TO BE PREPARED BY A REGISTERED DESIGN PROFESSIONAL APPROPRIATELY LICENSED TO DO SO AND WHOM SHALL FURNISH THE SUBMITTAL TO THE CODE-ENFORCEMENT OFFICIAL FOR APPROVAL AND PERMITTING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 3. IT IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD FOR A SITE SPECIFIC PROJECT TO VERIFY:
- THE ADEQUACY OF THE NEW OR EXISTING STRUCTURE TO RESIST THE FORCES AND WEIGHT SPECIFIED Α. FOR EACH COMPONENT IN ADDITION TO ALL OTHER LOADS. PROVIDE AND DESIGN SUPPLEMENTARY MEMBERS AS REQUIRED.
- THAT THE ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS. Β.
- THAT THE ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY NEW OR EXISTING ANCHORS. C. THE SPACING SHOWN IN THE TEST VALUES TABLE ON PAGE 5 IS THE REQUIRED SPACING FROM ANCHORS OF OTHER DIAMETERS AND EMBEDMENTS WILL VARY.
- THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2019 CBC AND WITH THE DETAILS SHOWN IN D. THIS PRE-APPROVAL.
- E. THAT THE ACTUAL EQUIPMENT'S WEIGHT, CENTER OF GRAVITY (CG) LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS, AND THE MATERIAL AND GAGE OF THE EQUIPMENT WHERE ATTACHMENTS ARE MADE, AGREE WITH THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.
- F. THE SEOR SHALL VERIFY THAT THESE SEISMIC BRACKETS ARE COMPATIBLE WITH THE SITE CONDITIONS. THE RELATIVE FLATNESS OF THE FLOOR OR SLAB ON GRADE THAT WILL SUPPORT THE COMPONENTS MUST BE KNOWN SO THAT VARIATIONS IN THE RELATIVE FINISH FLOOR ELEVATION CAN BE COORDINATED WITH THE INSTALLATION REQUIREMENTS OF THE ABBOTT INSTRUMENTS. FEACH SEISMIC BRACKET HAS BEEN DESIGNED TO ACCOMMODATE SOME AMOUNT OF VERTICAL HEIGHT ADJUSTMENT FOR LEVELING OF THE INSTRUMENT. IN SOME CASES THE FLOOR SURFACE IRREGULARITIES MAY EXCEED THE ABILITY OF THE INSTRUMENT TO BE RAISED OR LOWERED TO ACHIEVE THE SPECIFIED ELEVATION OF THE INSTRUMENT REQUIRED BY ABBOTT. IN SUCH CASES, ALTERATIONS TO THESE ANCHORAGE DESIGNS MAY BE NECESSARY. IT SHALL BE THE RESPONSIBILITY OF THE SEOR TO REVISE THESE DESIGNS AS DEEMED APPROPRIATE BY THE SEOR OR TO PROVIDE NEW ORIGINAL DESIGNS TO ANCHOR THE INSTRUMENTS. ALTERATIONS TO WORK CONTAINED WITHIN THIS OPM SHALL BE SUBMITTED TO OSHPD FOR REVIEW AND APPROVAL FOR ISSUANCE OF A CONSTRUCTION PERMIT.
- CYS STRUCTURAL ENGINEERS, INC. IS NOT THE SEOR AS IT RELATES TO VERIFICATION OF SITE G. CONDITIONS AND REQUIRED OBSERVATIONS PER CHAPTER CHAPTER 17/17A OF THE IBC/CBC, UNLESS CYS STRUCTURAL ENGINEERS, INC. IS LISTED AS THE SEOR ON THE APPROVED CONSTRUCTED DOCUMENTS. REG/S

SHEET TITLE: GENERAL NOTES

CYS STRUCTURAL ENGINEERS,	INC.		Job No:	20064
, 2495 NATOMAS PARK DRIVE, SUITE 650		(916) 920-2020	Date:	12/01/2020
SACRAMENTO, CA 95833		cyseng.com	Page:	3 of 148

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GENERAL NOTES CONTINUED:

- 4A. EXPANSION ANCHORS INSTALLED IN NORMAL WEIGHT OR SAND-LIGHTWEIGHT CONCRETE SHALL BE STAINLESS STEEL HILTI KB-TZ EXPANSION ANCHORS COMPLYING WITH ICC-ES ESR-1917 REISSUED MAY, 2019. ADHESIVE ANCHORS INSTALLED IN NORMAL WEIGHT CONCRETE SHALL BE ASTM F593 CW1 (316) INSTALLED USING HILTI HIT-RE 500 V3 ADHESIVE COMPLYING WITH ICC-ES ESR-3814, REVISED APRIL 2019.
- B. INSTALLATION: INSTALL THE POST-INSTALLED ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN THE ICC EVALUATION REPORT FOR THE SPECIFIC ANCHOR AND THE PARAMETERS GIVEN IN THE TABLE ON PAGE 5.
- C. TESTING:
 - JOB TESTING: FOR VERIFYING SATISFACTORY INSTALLATION WORKMANSHIP, PERFORM JOB SITE TESTING IN ACCORDANCE WITH THE TEST LOAD TABLE PROVIDED IN THIS DOCUMENT. TEST 50% OF THE INSTALLED ANCHORS. FOR TENSION TESTING, THE TEST LOAD MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION IN THE ANCHOR SUCH AS DIRECT PULL WITH A HYDRAULIC JACK OR CALIBRATED SPRING LOADING DEVICES. FOR TORQUE TESTING, THE TEST LOAD SHALL BE APPLIED WITH A CALIBRATED TORQUE WRENCH. ALL TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE INSPECTOR OF RECORD. REPORT OF TEST RESULTS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY. IF ANY ANCHOR FAILS THE TEST, TEST ALL ANCHORS. THE TEST SHALL BE PERFORMED 24 HOURS OR MORE AFTER INSTALLATION. TESTING MAY BE DONE PRIOR TO EQUIPMENT INSTALLATION. ALSO REFER TO CBC 1913A.7 "FIELD TESTS FOR POST-INSTALLED ANCHORS IN CONCRETE".
 - FAILURE/ACCEPTANCE CRITERIA: THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
 - •• <u>HYDRAULIC RAM METHOD:</u> APPLY AND HOLD TEST LOAD FOR A MINIMUM OF 15 SECONDS. THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD WHERE WASHERS ARE USED. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE OR BY A CONTINUOUS LOSS OF JACKING PRESSURE.
 - •• <u>TORQUE WRENCH METHOD</u>: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS: <u>1</u>. WEDGE TYPE: ONE-HALF (½) TURN OF THE NUT.

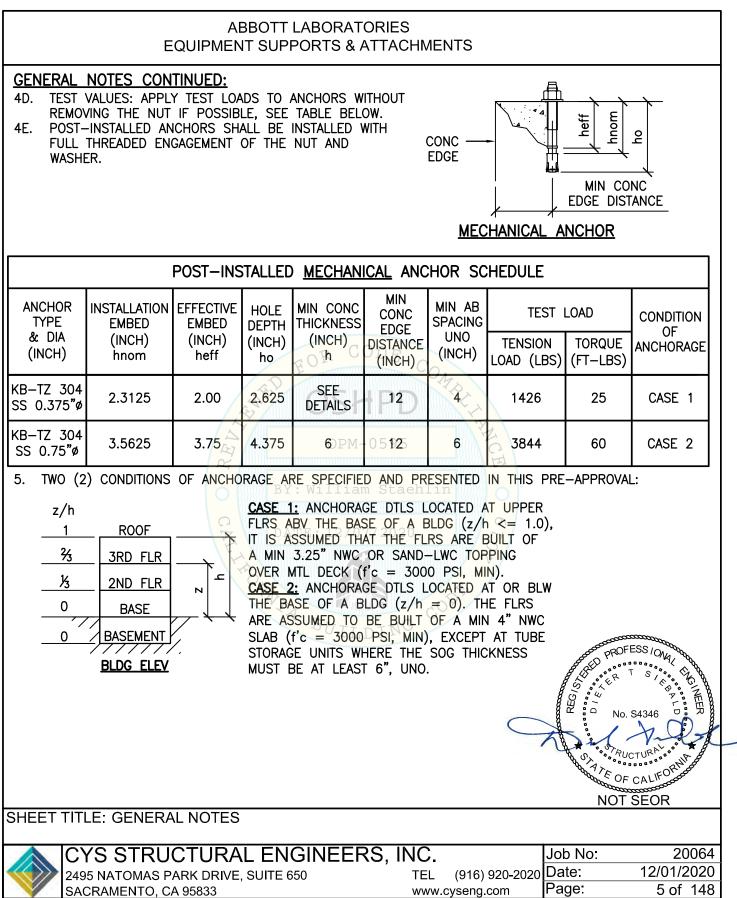
SHEET TITLE: GENERAL NOTES

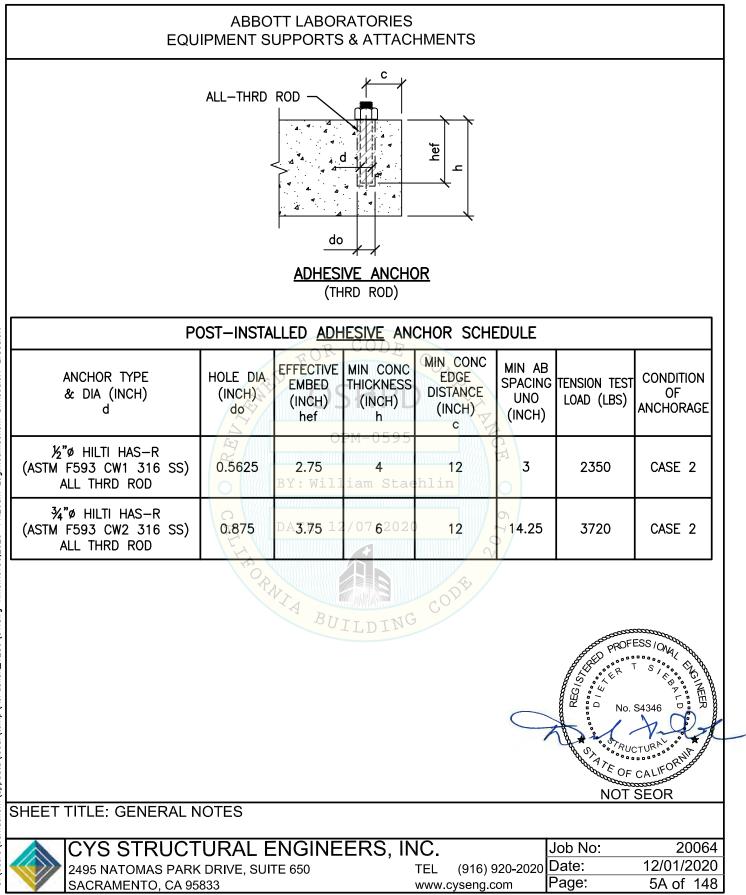
CYS STRUCTURAL ENGINEERS,	INC.		Job No:	20064
2495 NATOMAS PARK DRIVE, SUITE 650	TEL	(916) 920-2020	Date:	12/01/2020
SACRAMENTO, CA 95833	www.c	cyseng.com	Page:	4 of 148

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GEN	ERAL NOTES CONTINUED:			
6.	THIS PRE-APPROVAL MAY BE USED AT ANY GE	OGRAPHICAL LOCATION IN	THE STATE OF	
	CALIFORNIA. WHERE SDS IS LESS THAN OR EQ			
7.	COORDINATE THE ANCHOR BOLT LAYOUT WITH 1	THE COMPONENT IN THE FI	eld prior to se	TTING
	ANCHOR BOLTS.			
8.	ANCHOR BRACKETS SHALL BE PAINTED WITH A	RUST INHIBITIVE PRIMER F	OLLOWED BY A CO	DLOR
•••	COAT SELECTED BY THE HOSPITAL FACILITY OR			
	EQUIPMENT IF A COLOR IS NOT SPECIFIED BY			
9.	FASTENERS AND ASSOCIATED HARDWARE SHALL		CH BRACKETS AFT	FR
	INSTALLATION IS COMPLETE.			
10.	STRUCTURAL STEEL SHAPES AND CONNECTORS	SHALL CONFORM TO THE	FOLLOWING. UNO:	
	A. PLATES, ANGLES, BARS & MISCELLANEO			
	B. PLATES AS NOTED			GR 50
	C. MACHINE BOLTS			
11.	UNIT COMPONENTS, TRACK SUPPORTS AND INTE			-
	PROVIDED BY ABBOTT. CONTRACTOR SHALL FUR			
	ATTACHMENTS (INCLUDING SEISMIC BRACKETS, I			
	BELOW SLABS, HIGH STRENGTH BOLTS TO REPL			
				WIILL
10	COMPONENT SETTING INSTRUCTIONS FROM ABBO			
12.	DRAWING SCALES ARE NOT PROVIDED. DO NOT	SCALE OFF OF THESE DRA	<u>AWINGS</u> .	
	THE INTENT OF THESE DRAWINGS IS TO SHOW			0
	ANCHOR THE EQUIPMENT SPECIFIED. THE REPR		PMENT ARE UNLY	
47	INTENDED TO SHOW THE COORDINATION WITH T	HE SEISMIC BRACKETS,		
13.	BOLTS THROUGH CONCRETE ON METAL DECK:	M OFOF		
	A. BOLTS SHALL BE T <mark>ORQUED BY 3/4 TURN</mark>			
	TIGHT CONDITION IS DEFINED AS THE TI			ED
	PLIES INTO FIRM CONTACT) CONDITION I			
	B. THROUGH BOLT HOLES SHALL BE 0.062	5" LARGER THAN BOLT SIZ	E	
	(HOLE SIZE = $BOLT_SIZE + 0.0625"$)			
	C. THROUGH BOLTS IN CONCRETE SHALL R	ECEIVE SPECIAL INSPECTIO	N & TESTING (THE	ROUGH
	BOLTS WITH STEEL TO STEEL CONNECTION			
	ACCORDANCE WITH REQUIREMENTS FOR			`
14.	TAKE CARE TO AVOID DAMAGING REBAR OR PO			
17.	ANCHORS TO CONCRETE.	ST TENSIONING TENDONS I	TILIN INSTALLING	
15.	DRY BOLT AND NUT INSTALLATION TORQUES SH	ALL BE AS FOLLOWS		
		E (FT-LBS)		
	M5 5		20222222	ESS /ON
	M8 8		Fill PRO	MAL Soon
	M10 15 M16 67		ALL OF R	⊺ S Strand Stra
			SIS	Yes In
	M20 136		REG/	
	0.25" 10	(S4346
	0.50" 40		-Atil	V-V-S
	THESE VALUES DO NOT APPLY TO POST-INS		RS. ARI	ICTURAL
16.	FUTURE ALTERATIONS TO TRACK SYSTEMS, INCL			RNI
	TRACK AND TRACK COMPONENTS, TRACK MODU		NTS VOID	CALIFO
	ATTACHED TO THE TRACK SYSTEM MUST BE RE	VIEWED BY OSHPD.	NOT	SEOR
SHE	ET TITLE: GENERAL NOTES		101	
SHEE	LI IIILE, GENERAL NUTEO			
	CYS STRUCTURAL ENGINE	ERS, INC.	Job No:	20064
$\langle \langle \rangle$	2495 NATOMAS PARK DRIVE, SUITE 650	, TEL (916) 920-	₂₀₂₀ Date:	12/01/2020
	SACRAMENTO, CA 95833	www.cyseng.com	Page:	6 of 148





ABBOTT LABORATORIES
EQUIPMENT SUPPORTS & ATTACHMENTS

ABBREVIATIONS: AB ANCHOR BOLT AB ANCHOR BOLT ABV ABOVE ADONL ADDITIONAL ADITIONAL ADITIONAL ALLIMINUM ALLIMINUM ALLIMINUM ASCE AMERICAN INSTITUTE FOR STEEL CONSTRUCTION ALLIMINUM ALLIMINUM ALLIMINUM ALLIMINUM ASEE AMERICAN SOCIETY OF CIVIL ENGINEERS AMERICAN SOCIETY FOR TESTING & MATERIALS AMERICAN WELDING SOCIETY BLOG BUILDING BLOG BUILDING BUG BUILDING BOTTOM OF BLOG BUILDING CODE BOTTOM OF BLOG BUILDING CODE BOTTOM OF BLOG BUILDING CODE CLLFORNA BUILDING CODE CLLFORNA BUILDING CODE CLLFORNA BUILDING CODE CLLFOR TO F CRAITY CLL CLLARANCE CLLFOR OF CRAVITY CLL CLARANCE CLLFOR OF CLLARANCE CLLFOR OF CRAVITY CLL CLARANCE CLLFOR OF CRAVITY CLL CLARANCE CLLFOR OF CRAVITY CLLFOR OF CLLARANCE CLLFOR OF CLLARANCE CLLFOR OF CRAVITY CLLFOR OF CRAVITY CLLFOR OF CRAVITY CLLFOR OF CLLARANCE CLLFOR OF CRAVES STRUCTURAL ENGINEER CLLFOR OF CLLARANCE CLLFOR OF CLLARANCE CLLFOR OF CONCRETE CLLFOR OF CRAVITY CLLFOR OF CLLAR		EQUIPMENT SUPPORTS &	ATTACHI	VIEIN I S
Φ AT Fp HORZONTAL SESMIC FORCE PER ASC 7-10 SESMIC FORCE PER ASC 7-10 SESMIC FORCE REQUIREMENTS ADDNL ADDTIONAL FT FRMG FRAMING FRAMING ADDNL ADDTIONAL FT FOR SECONDAL FRAMING FRAMING FRAMING ADDNL ADDTIONAL FT FU SECONDACT FRAMING F		TIONS		
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ABV ABOVE FRMG FRAMING ADDNL ADJACENT FT (*) ALD ADJACENT FT ALSC AMERICAN INSTITUTE FOR STEEL CONSTRUCTION FU ALT ALLERNATE FV ALUM ALLMINUM FV SPECIFIED TENSILE STRENGTH OF REINFORCING, ASCE 7-10 SEISMIC FORCE FER ALLOWABLE STRENGTH DESIGN FV VERTICAL SEISMIC FORCE REQUIREMENTS ASTM AMERICAN SOCIETY OF CIVIL ENGINEERS FV ASTM AMERICAN WELDING SOCIETY GA BUG BUILDING GC GC BUB BULDING GC GC BOTTOM HEIGHT HT BOTTOM OF IBC INTERNATIONAL DUILDING CODE BRCC BRACING INTERNATIONAL CODE COUNCIL BW BELOW CC CC CALIFORNA LUCISSED STRUCTURAL ENGINEER CLSE CALIFORNA LUCISSED STRUCTURAL ENGINEER CLSE CALIFORNA LUCISSED STRUCTURAL ENGINEER CONC CONCRETE CONCRETE CONCRETE CONCRETE CONC CENTER CONCRETE CONCRETE CLSE CALIFORNA LUCISSED STRUCTURAL ENGINEER CLSE CALIFORNA LUCISSED STRUCTURAL ENGINEER <tr< td=""><td></td><td></td><td>г_Р</td><td></td></tr<>			г _Р	
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SACRAMENTO, CA 95833 www.cyseng.com Page: 8 of 148	SA SA	ACRAMENTO, CA 95833	WV	ww.cyseng.com Page: 8 of 148

	EQUIPMENT SUPPORTS & ATTACHMENTS
	VIATIONS (CONT):
SC SCHED	SLIP CRITICAL SCHEDULE
SEOR	SCHEDOLE STRUCTURAL ENGINEER OF RECORD
SIM	SIMILAR
SLWC	SAND LIGHT WEIGHT CONCRETE
SOG	SLAB ON GRADE
SQ SS	SQUARE STAINLESS STEEL
STIFF	STAINLESS STELL
STL	STEEL
T&B	TOP & BOTTOM
TEMP	
THRD T _{max}	THREAD OR THREADED MAXIMUM TENSION DUE TO
11104	SEISMIC FORCE
T.O.	TOP OF
TOC	TOP OF CONCRETE
Tu	ANCHORAGE TENSION REACTION DUE TO SEISMIC FORCE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	ANCHORAGE SHEAR REACTION
VERT	ANCHORAGE SHEAR REACTION DUE TO SEISMIC FORCE VERTICAL ANCHORAGE SHEAR REACTION
Vu	ANCHORAGE SHEAR REACTION
	DUE TO SEISMIC FORCE
Vmax	MAXIMUM SHEAR DUE TO BY: William Staehlin
w/	
W _p	COMPONENT SELF-WEIGHT DATE: 12/07/2020
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V .	SACRAMENTO, CA 95833 www.cyseng.com Page: 9 of 148

	N0.	COMPONENT	LEVELING	FOOT DIMS	co	G LOCATIO	ON	WEIGHT
	NO. COMPONENT	WIDTH	DEPTH	x	ÿ	z	(W _p)	
		TYPICAL TRACK MODULE	90" MAX	11.50"	MIDSPAN	5.75 "	26.9 "	165#
ACK SUPPORTED COMPONENTS	1.	DE-SEALER MODULE W/ TRACK MODULE ²	90" MAX	11.50"	14" MIN	4.33"	27.95"	247#
SUPF	2.	DE-CAPPER MODULE W/ TRACK MODULE ²	90" MAX	11.50"	14" MIN	4.33"	27.95"	247#
COM	3.	RE-CAPPER MODULE W/ TRACK MODULE ²	90" MAX	11.50"	10" MIN	4.52"	34.5"	247#
⊢ [4.	SEALER MODULE W/ TRACK MODULE ²	90" MAX	11.50"	7" MIN	3.96"	29.13"	234#
	5.	ARCHITECT c4000 ANALYZER	45.67"	19.72"	21.75"	11.61"	41.50"	1132#
ENTS	6.	ARCHITECT c8000 ANALYZER	58.58"	23.86"	31.49"	10.87"	39.25"	1425#
COMPONENTS	7.	ARCHITECT c16000 ANALYZER	58.82"	23.86"	28.65"	10.47"	39.25"	1545#
	8.	ARCHITECT i1000sr ANALYZER	₽1 46.20" 9	20.64"	26.00"	9.61"	40.00"	636 #
STANDING	9.	ARCHITECT i2000sr ANALYZER	42.00"	30.25"	2 <mark>1.56</mark> "	13.57"	42.00"	1081#
	10.	CARTESIAN CENTRIFUGE	31.61"	12.40 <mark>"</mark>	1 <mark>5.81</mark> "	6.20 "	39.37"	827 #
FREELY	11.	a3600 INPUT/OUTPUT MODULE	62.52 ^{°°}	15.63"	31.26"	7.81"	38.19"	882#
Γ	12.	a3600 ALIQUOTER MODULE	45.83"	19.25"	<mark>24.41"</mark>	10.04"	25.12 "	661 #

11 TE OF CALIF NOT SEOR SHEET TITLE: COMPONENT DIMENSIONS SCHEDULE CYS STRUCTURAL ENGINEERS, INC. 20064 Job No: 12/01/2020 (916) 920-2020 Date: 2495 NATOMAS PARK DRIVE, SUITE 650 TEL Page: 10 of 148 SACRAMENTO, CA 95833 www.cyseng.com

NO.	COMPONENT	LEVELING	FOOT DIMS	C	G LOCATIO	ON	WEIGHT
NU.	COMPONENT	WIDTH	DEPTH	x	ÿ	z	(W _p)
13	INPECO TUBE STORAGE MODULE (15,038 TUBE CAPACITY)	67.52 "	29.53 "	40.26"	14.76"	46.14"	3087 #
14.	BULK INPUT MODULE	22.99"	27.05 "	7.32"	14.45"	23.62"	441 #
15.	RACK INPUT MODULE	11.22"	43.09"	4.76"	20.47"	24.49"	441#
16.	RACK OUTPUT MODULE	11.22"	43.09"	4.76"	20.47"	24.49"	441#
17.	U-TURN MODULE	90" MAX	11.50 "	6" MIN	9.80"	31.5"	222#
18.	T-TURN MODULE	14.09"	32.91"	9.29"	7.83 "	27.10"	440#
19.	L-TURN MODULE	26.22"	25.43"	14.17"	12.01"	26.97"	302#
20.	INPECO TUBE STORAGE MODULE (9,000 TUBE CAPACITY)	67.52"	29.53"	42.43"	14.76"	42.70"	2392#
21.	TUBE STORAGE INPUT/OUTPUT MODULE	53 <u>1</u> 5″(0 5 1 5.55"	29.53"	7.52"	30.0"	275 #
22.	HETTICH CENTRIFUGE	17.72"	18.50 "	8.86"	<mark>9</mark> .25"	19.69"	827 #
23.	WIDE BELT BUFFER (240 SAMPLE CAPACITY)	11.50"	20.19"	5.91"	13.73"	29.65"	209#
24.	WIDE BELT BUFFER DAT (600 SAMPLE CAPACITY)	E:12/07 41.34	/ 2020 11.50 "	20.17"	9.1"	29.53"	342#

NOTE: SEE PG 12 FOR MORE INFORMATION.

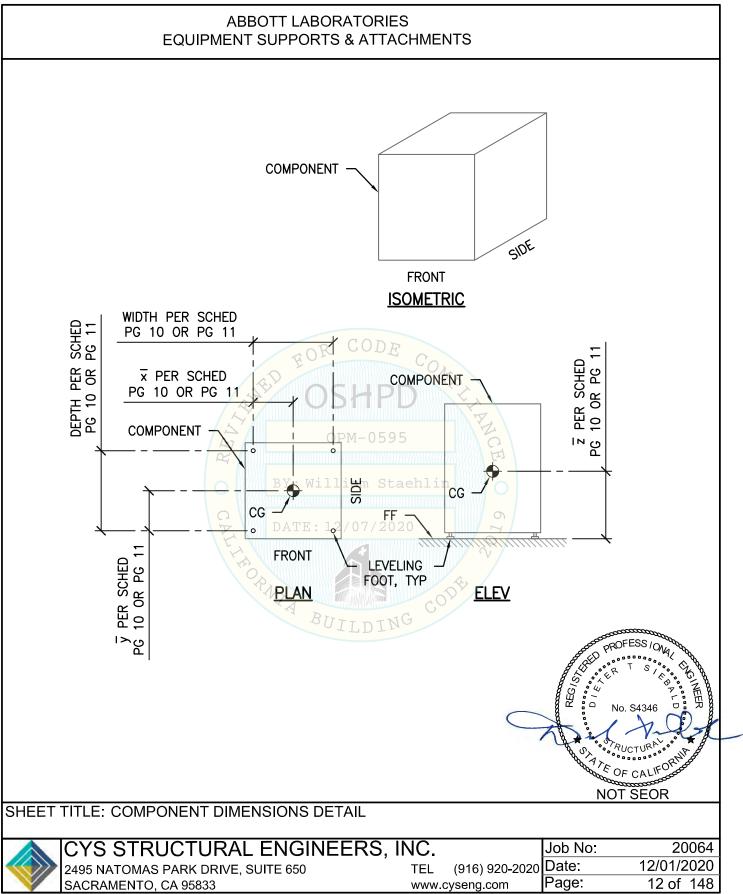
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SHEET TITLE: COMPONENT DIMENSIONS SCHEDULE				
🛛 📐 CYS STRUCTURAL ENGINEERS, IN	VC.		Job No:	20064
2495 NATOMAS PARK DRIVE, SUITE 650	TEL	(916) 920-2020	Date:	12/01/2020
SACRAMENTO, CA 95833	www.o	cyseng.com	Page:	11 of 148

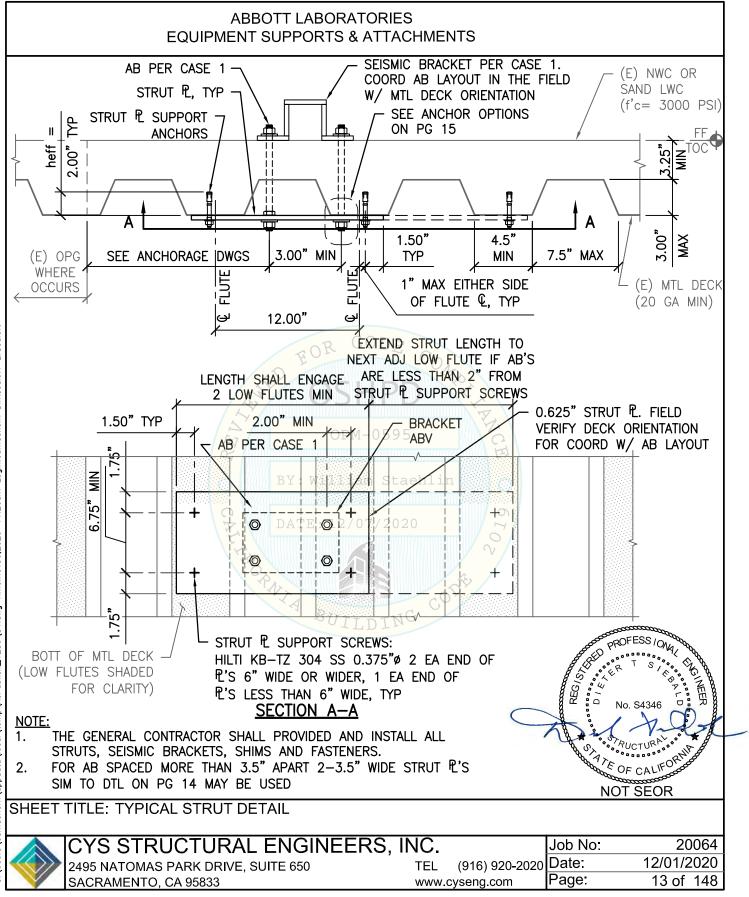
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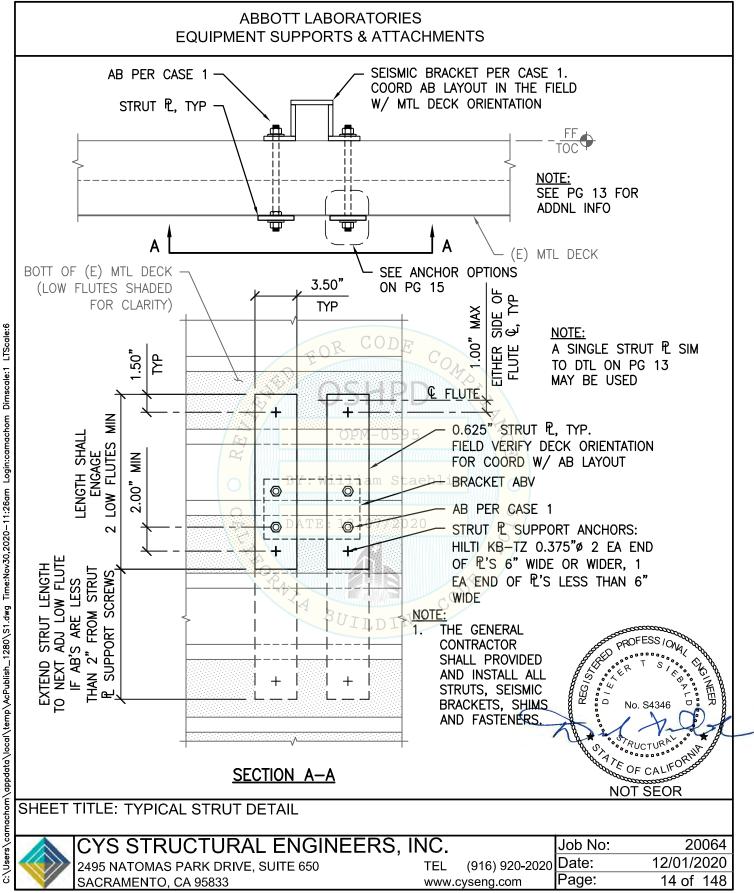
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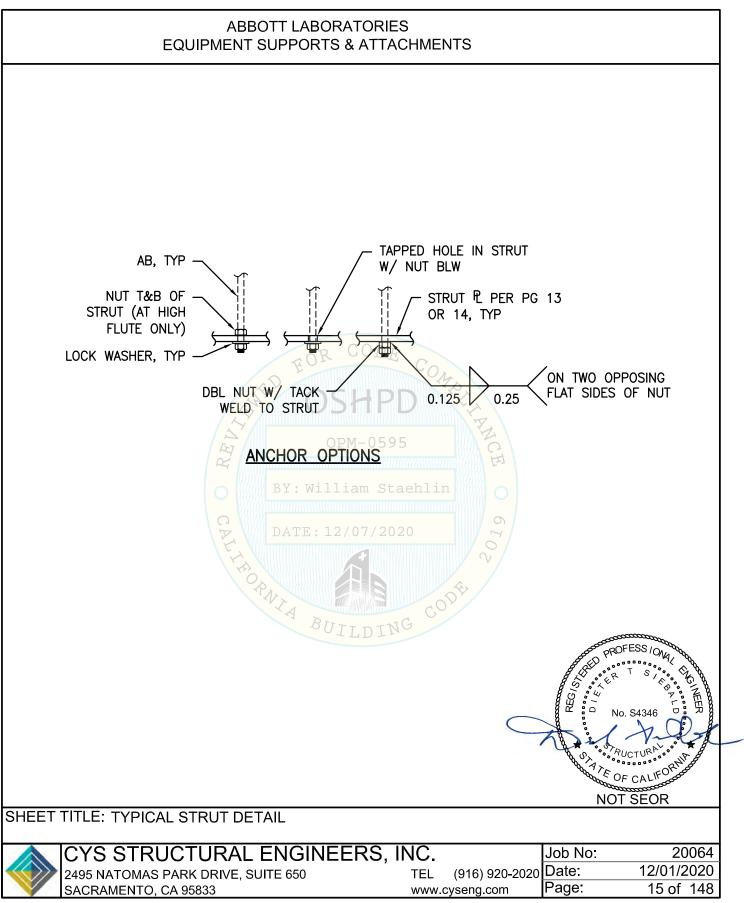
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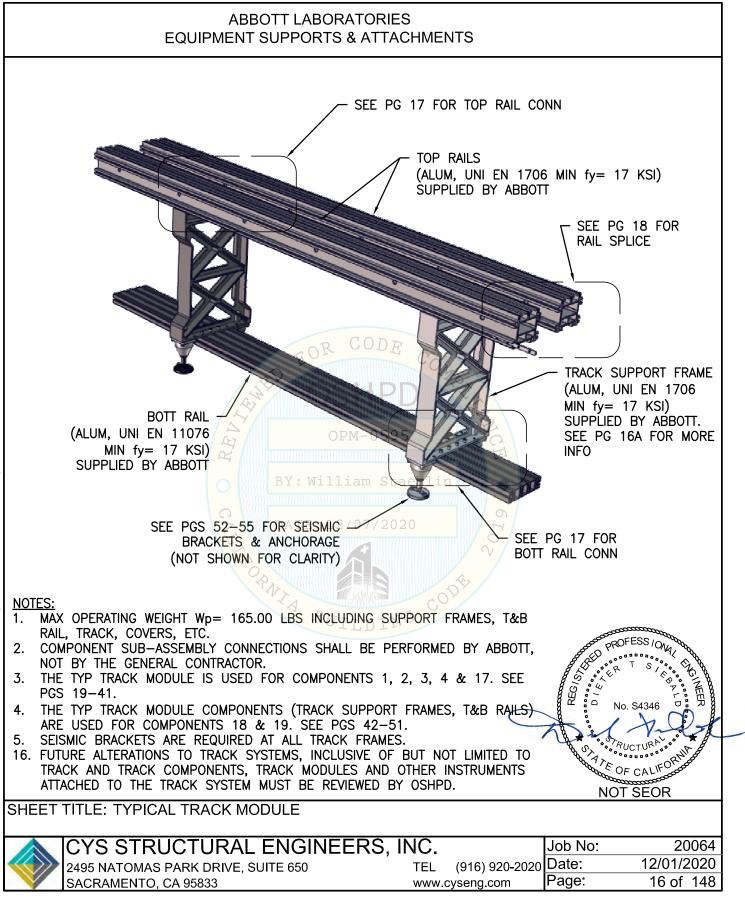
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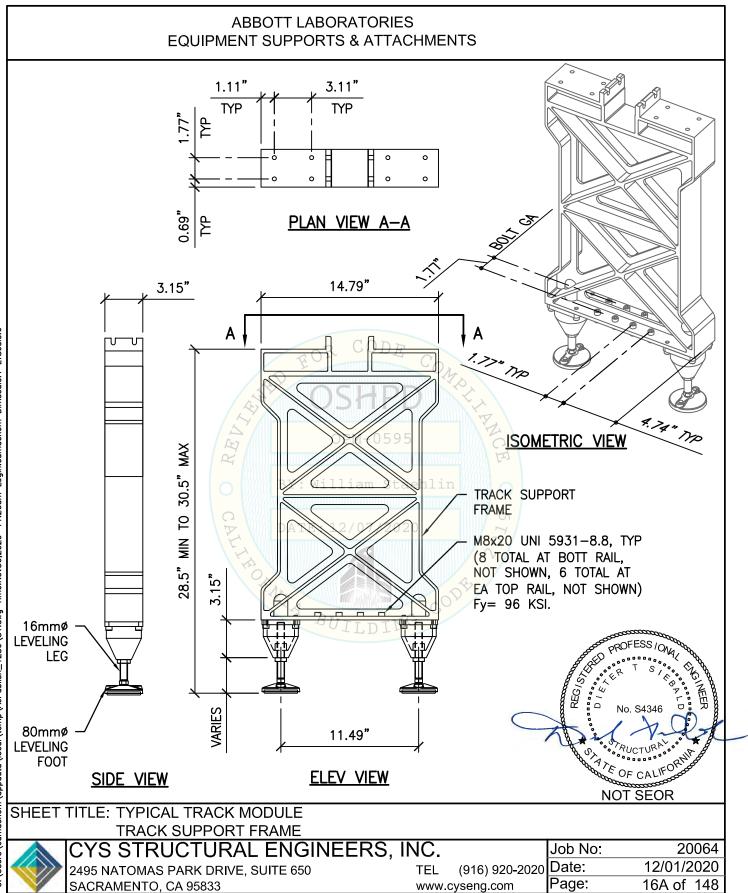


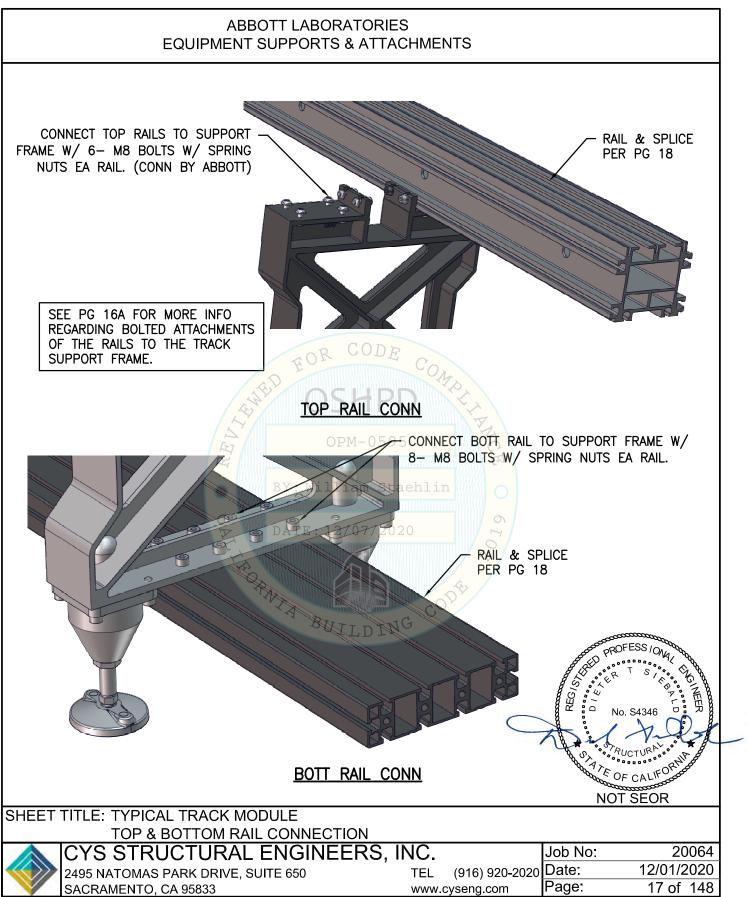


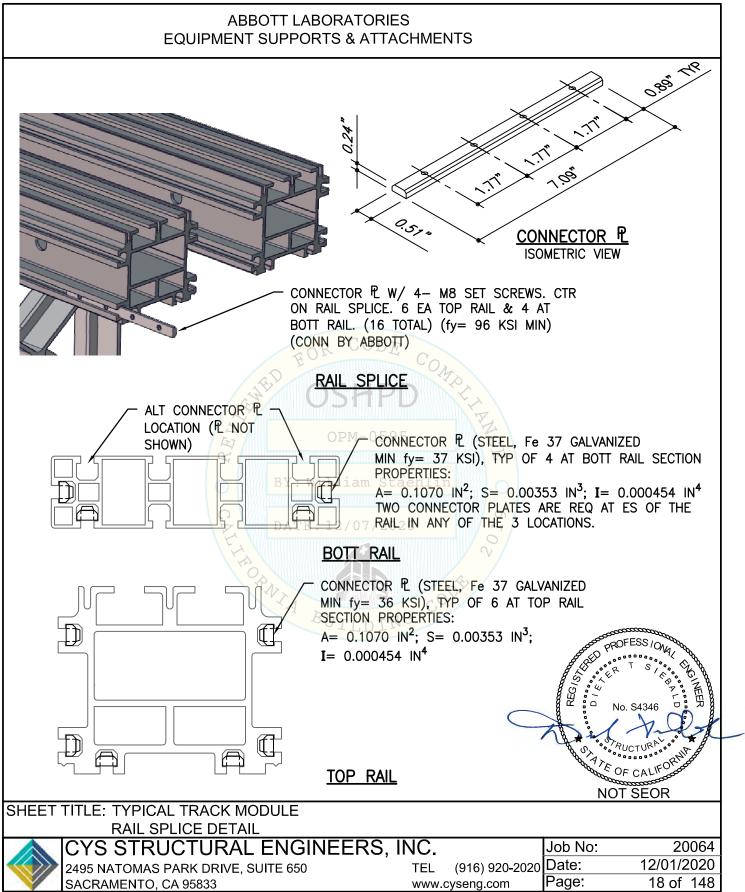


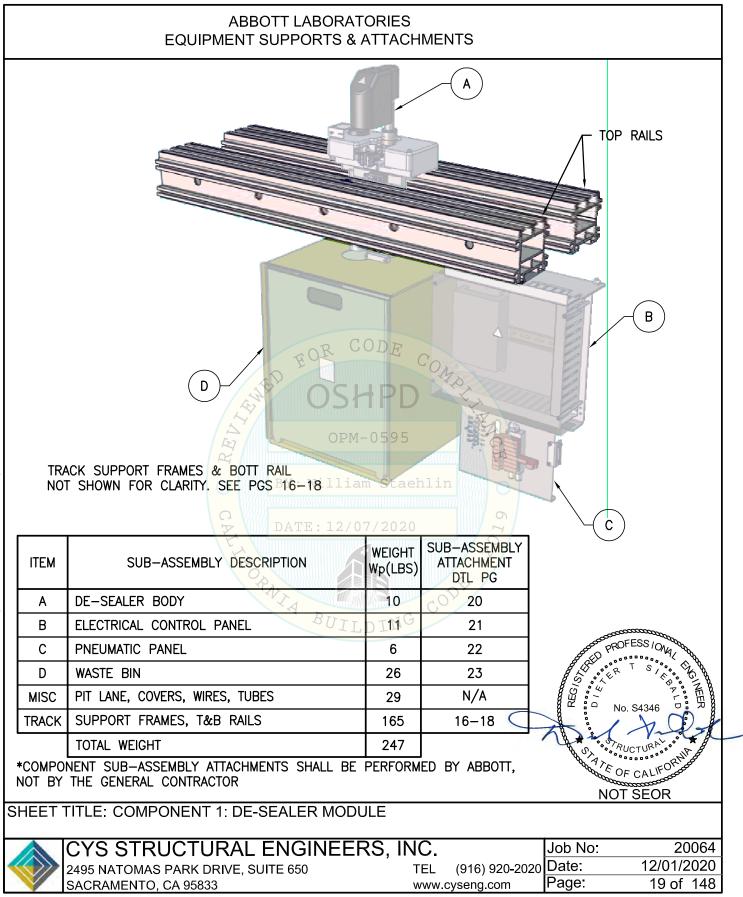




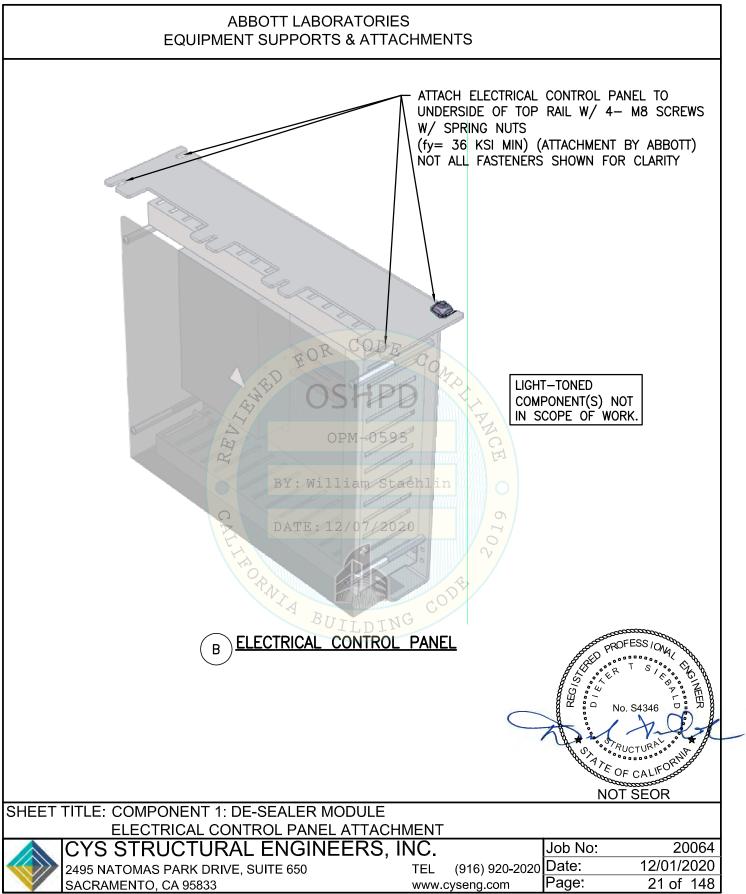


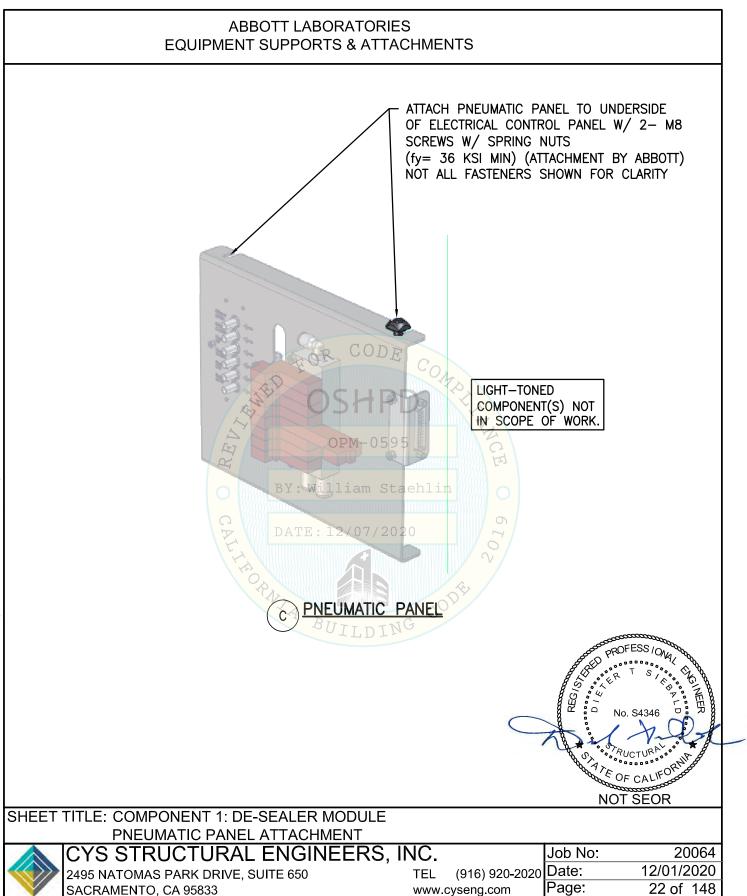


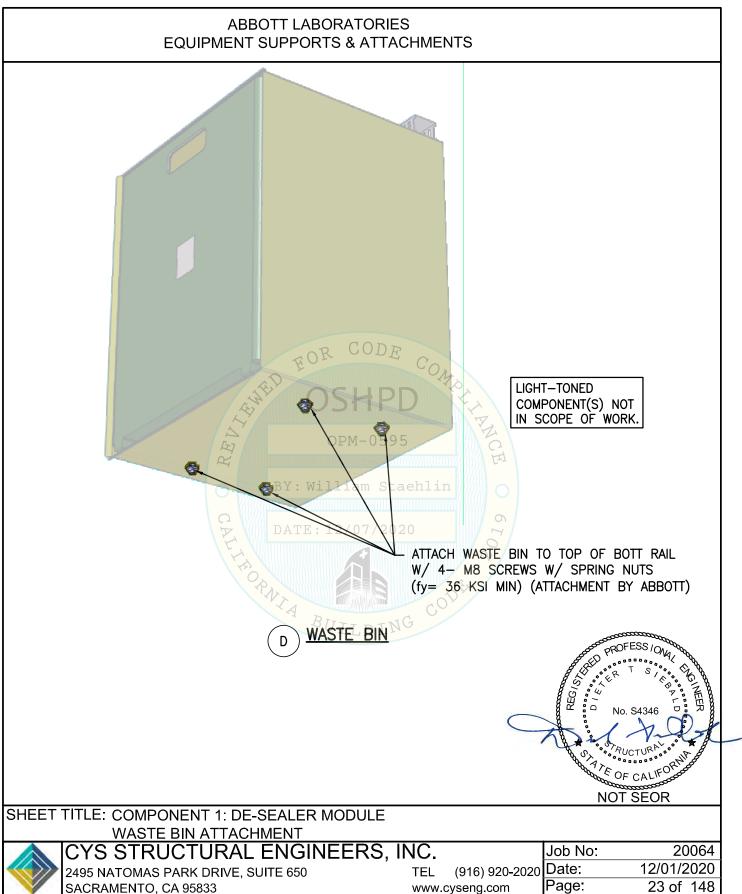


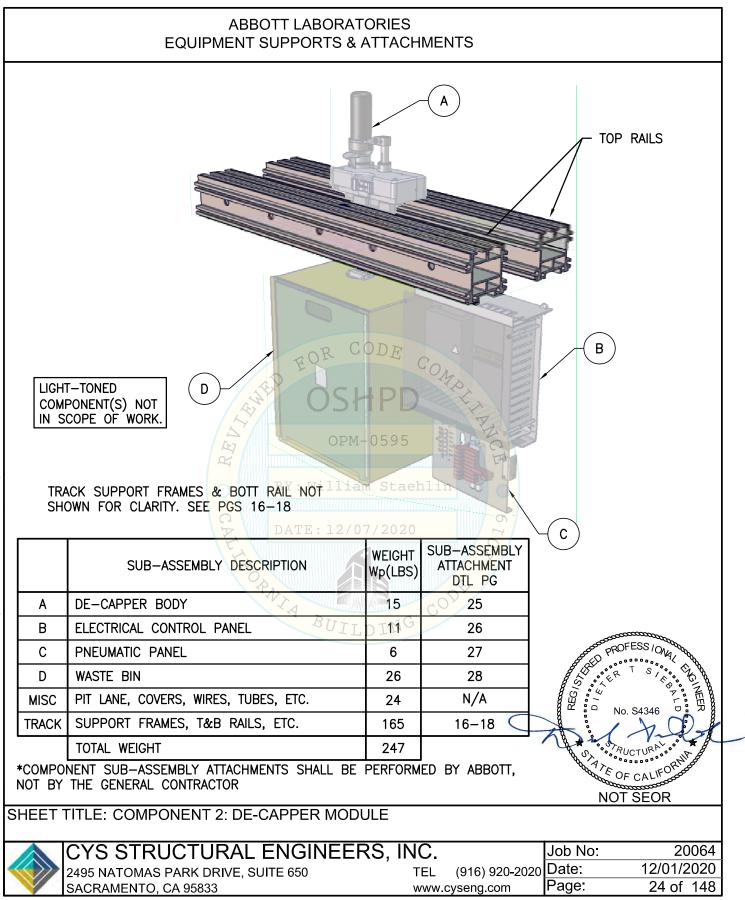


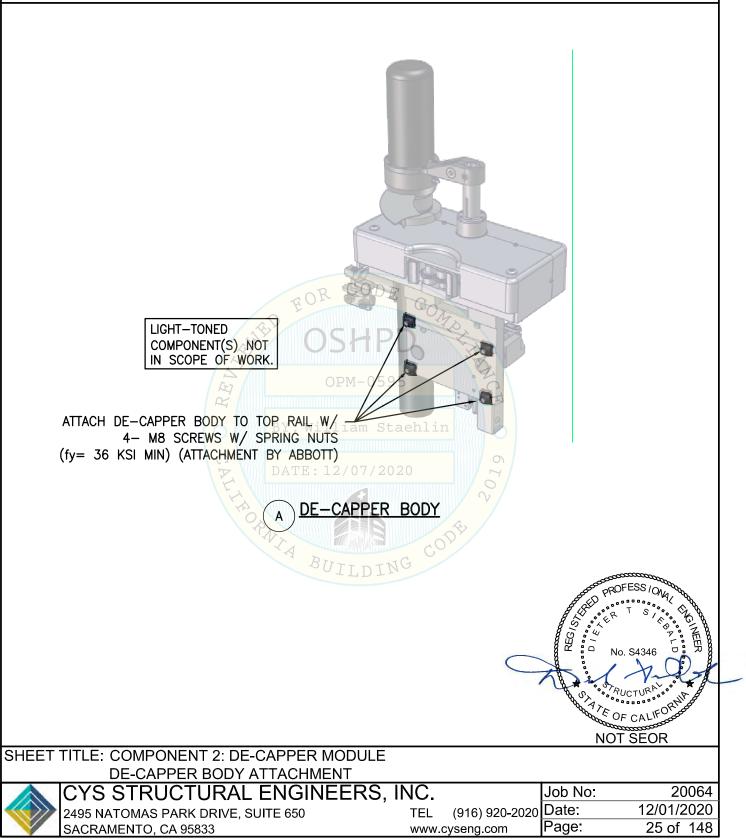


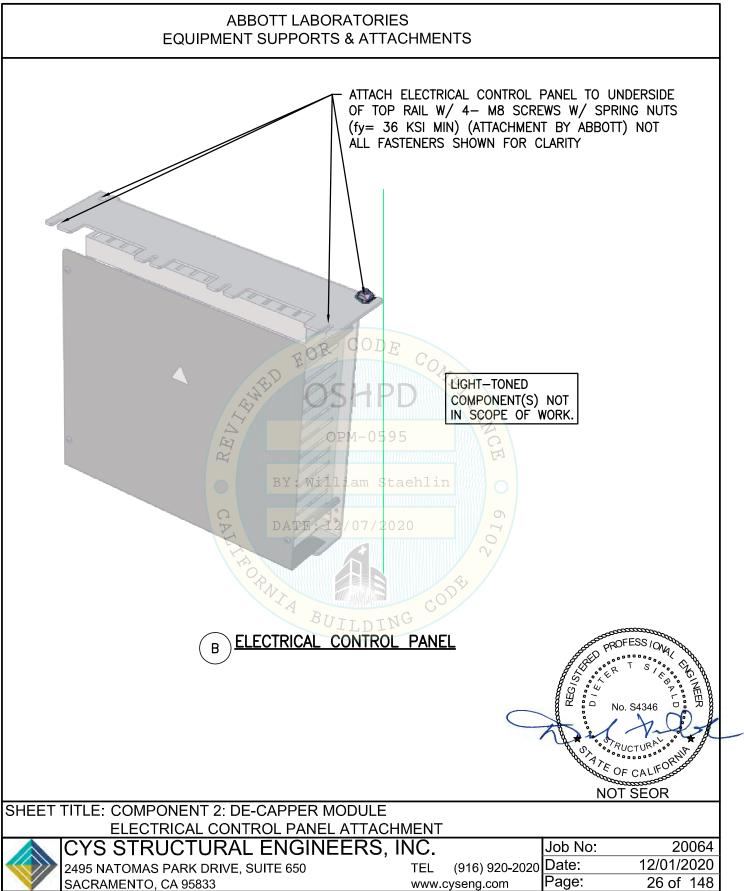




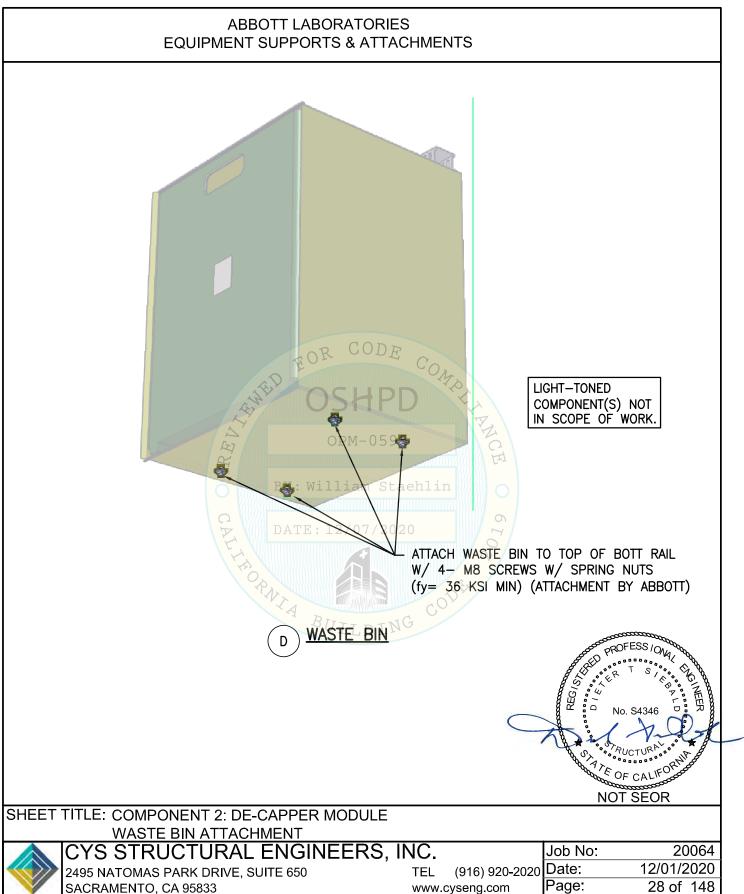


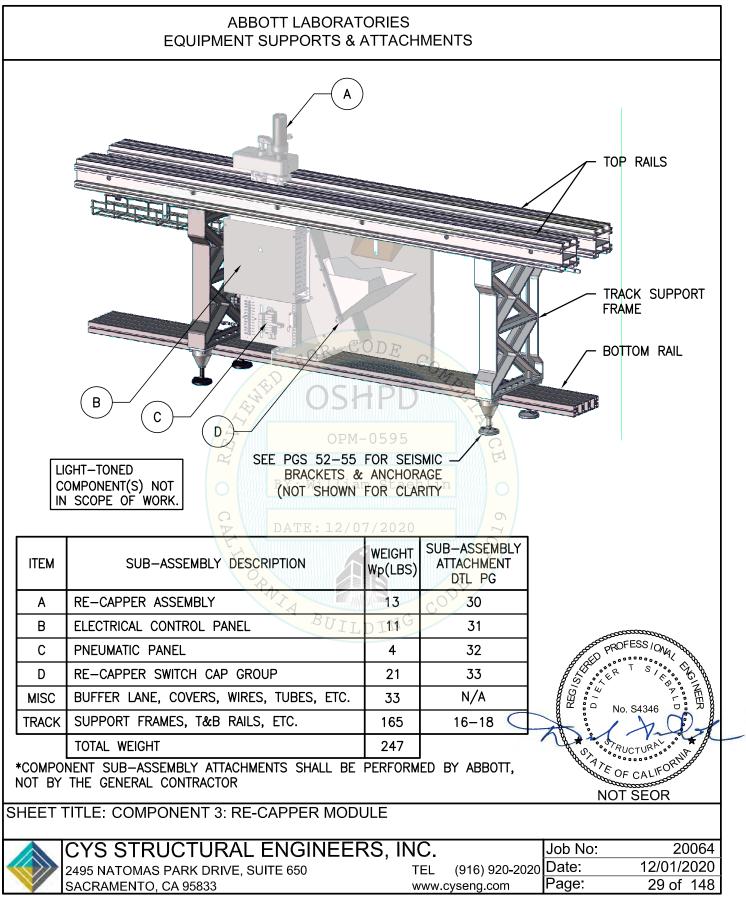




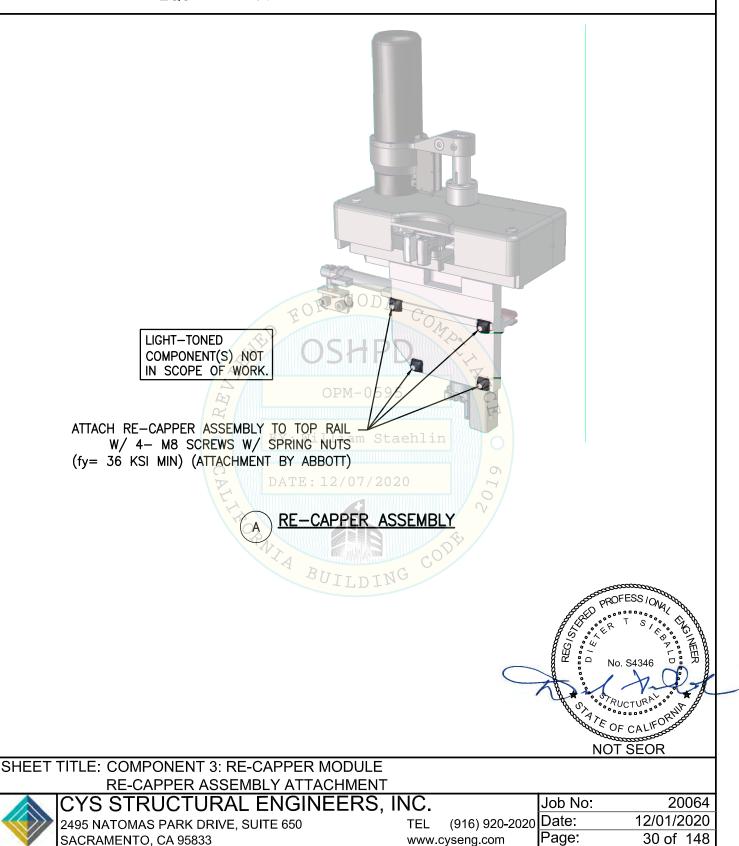


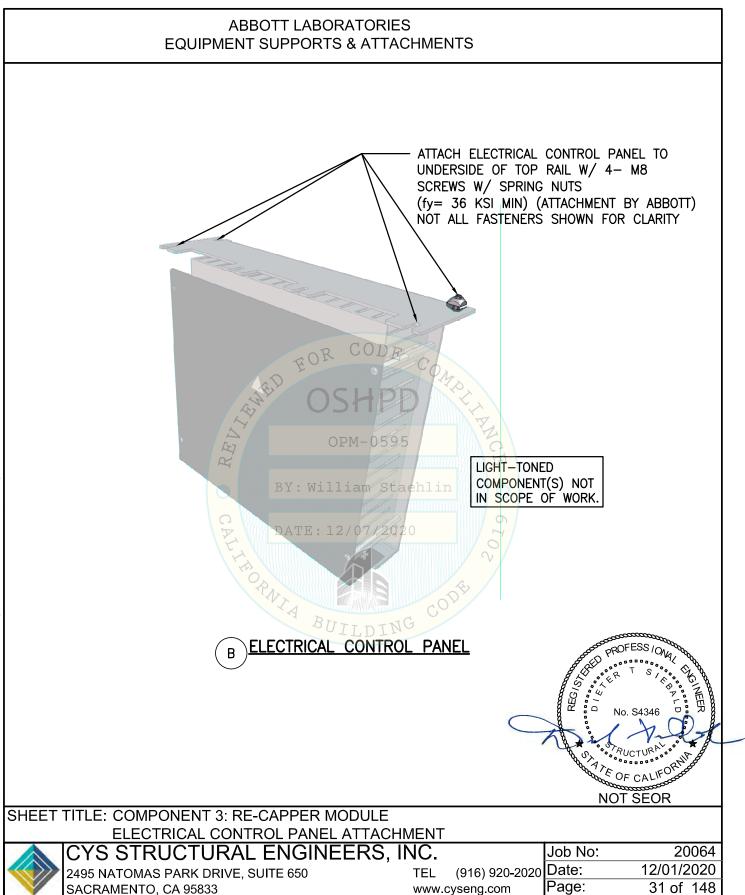




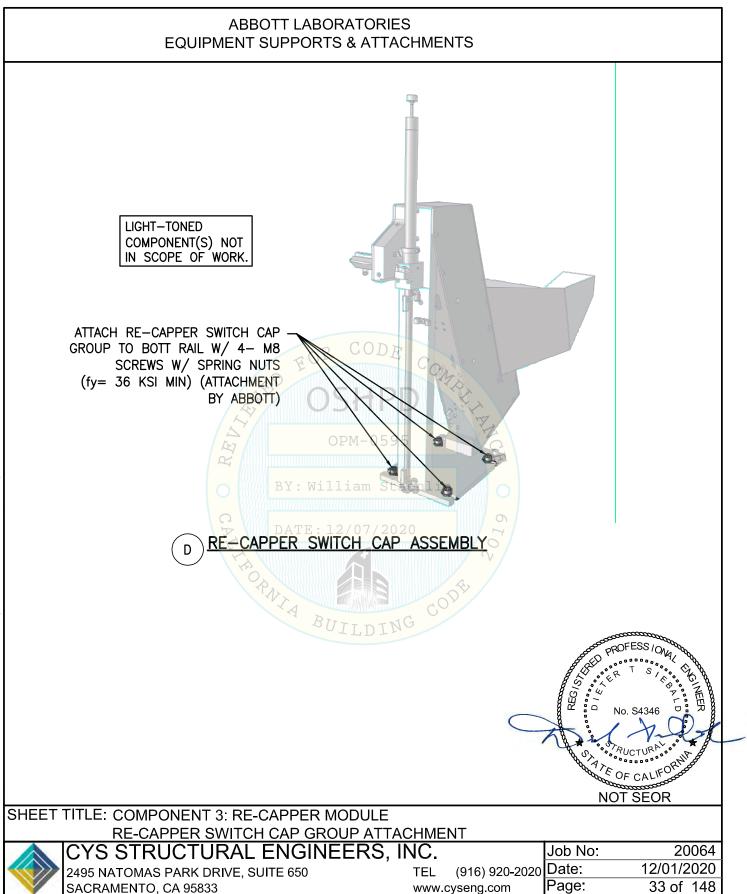




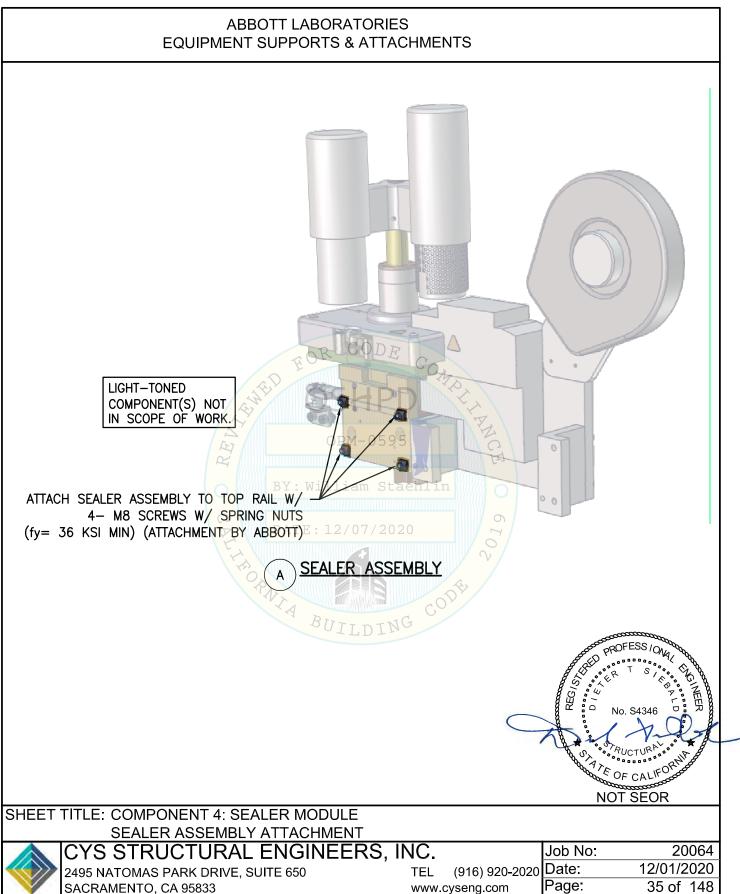


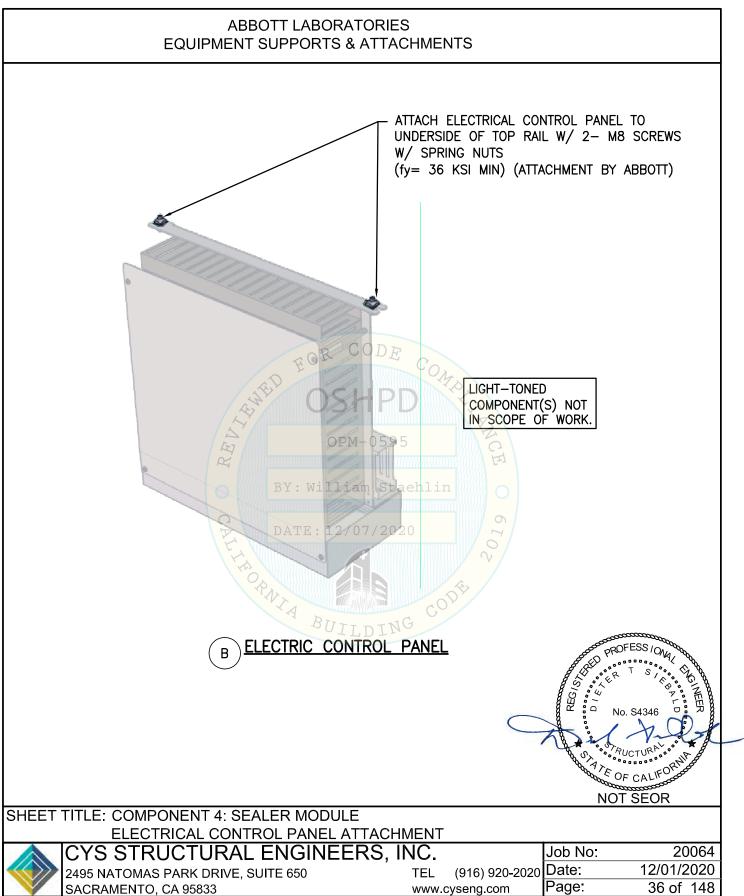


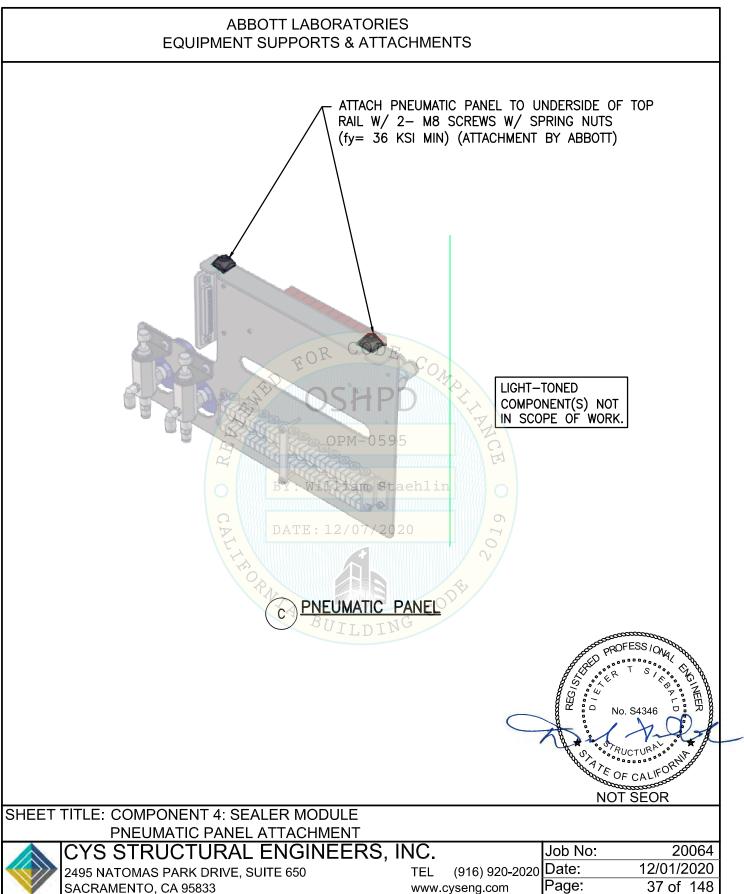


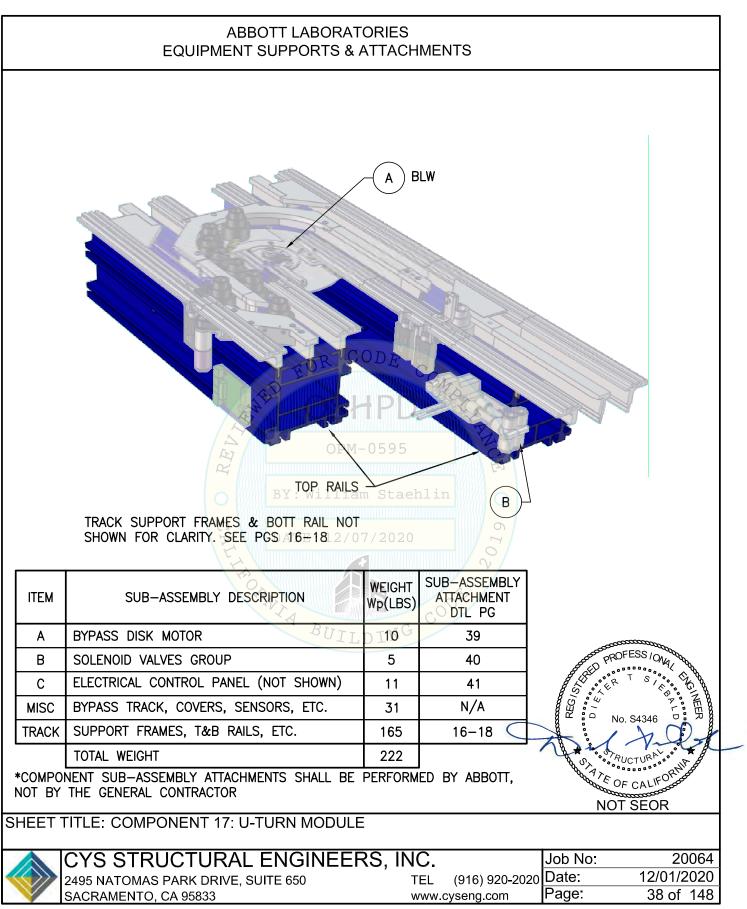




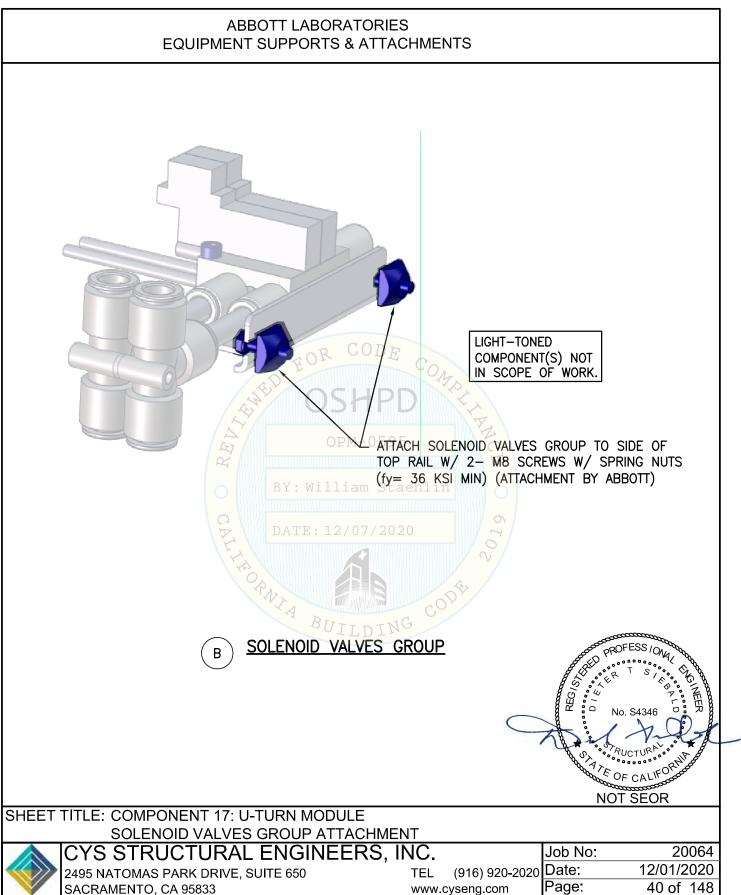


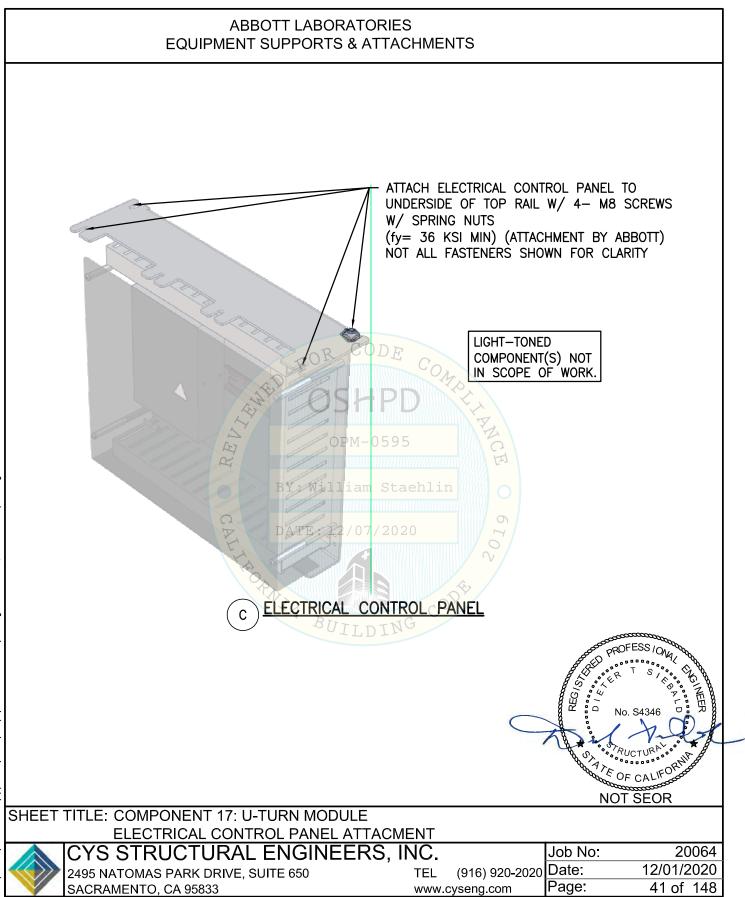


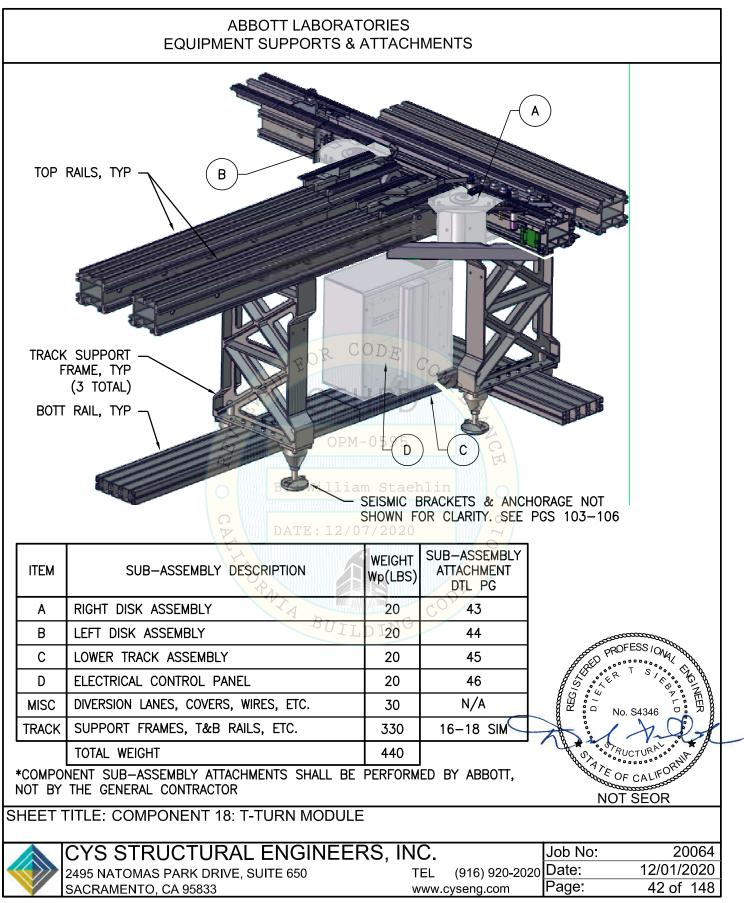






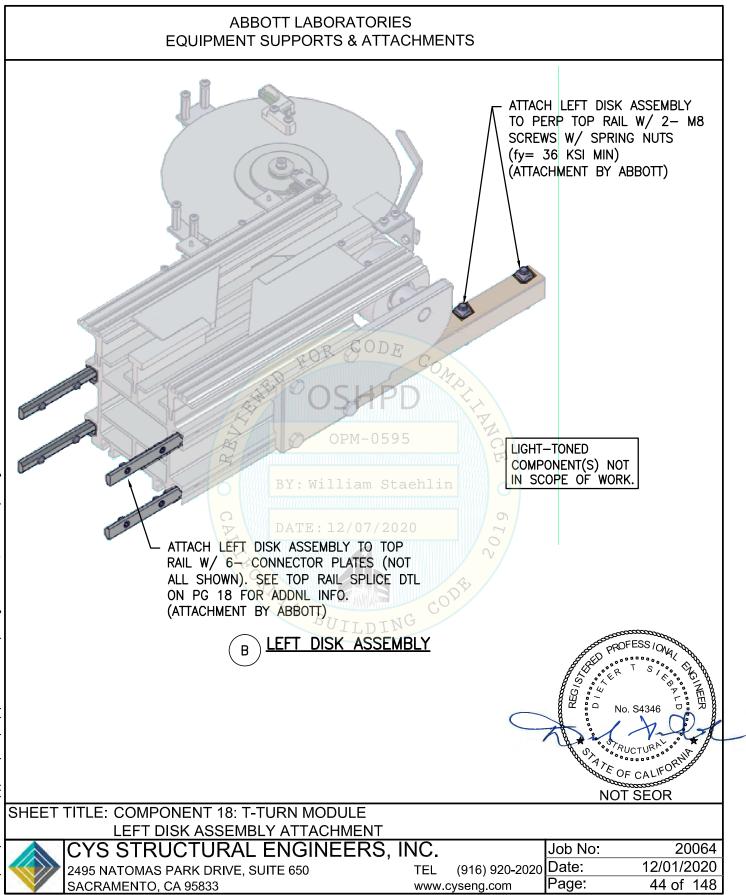






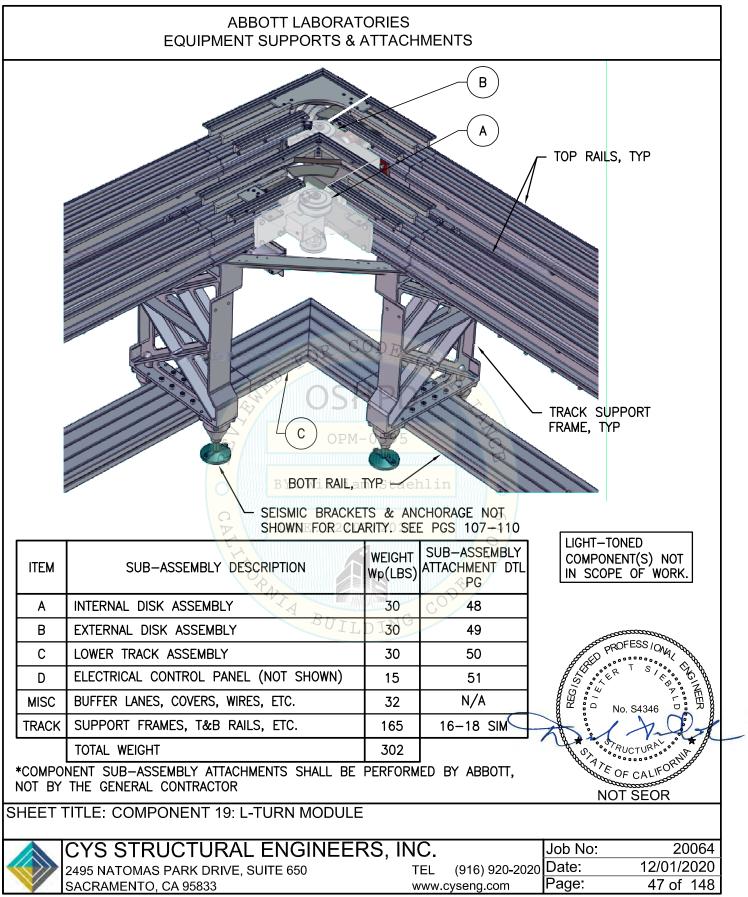








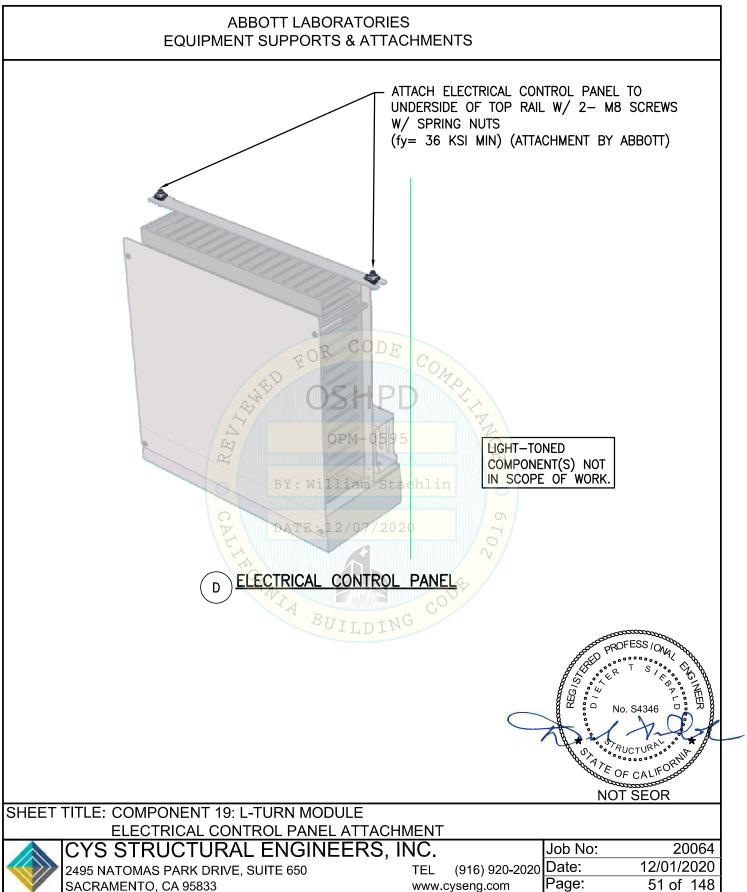


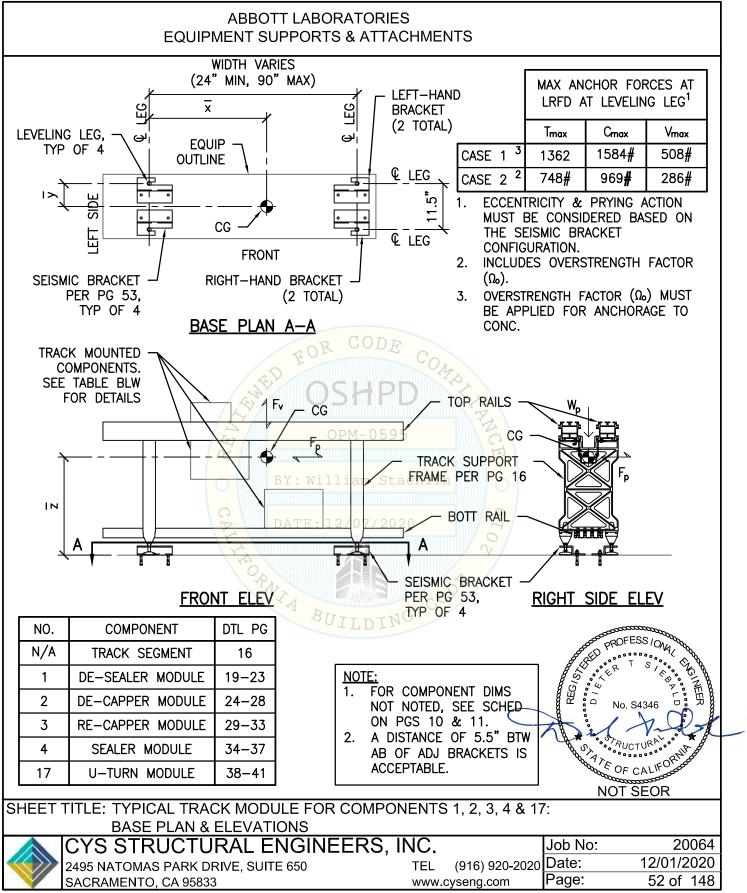


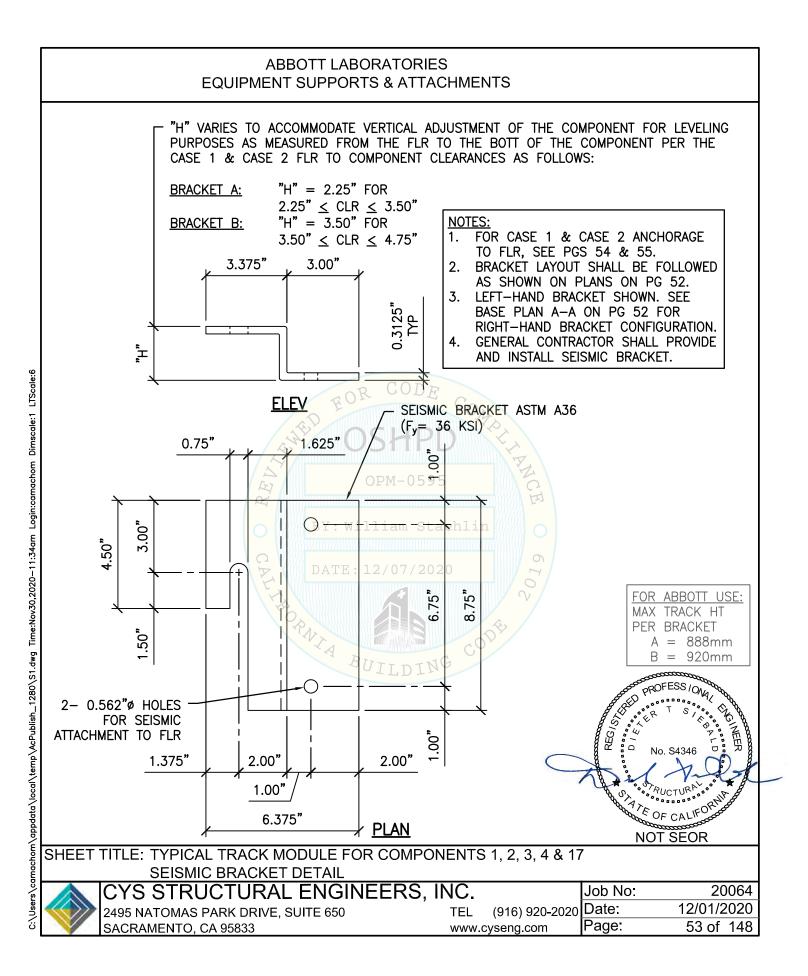












12/07/2020

