

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION **OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT**

CATION FOR HCAI PREAPPROVAL OF UFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY

APPLICATION #: OPM-0717

Applicant Information

Applicant Company Name: Sysmex America, Inc.						
Contact Person:	Jill Crist	VA BI	ILDING CO			
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Telephone: (215)) 962-8236	Email:	CristJ@Sysmex.com			
Title: Senior Manager IVD Product Marketing						

"A healthier California where all receive equitable, affordable, and quality health care"

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY





DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

Registered Design Professonal 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

HCAI Special Seismic Certification Preapproval (OSP)
Special Seismic Certification is preapproved under OSP OSP Number:
EOR CODE CO.
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.
X Analysis
Experience Data
Combination of Testing, Analysis, and/or Experience Data (Please Specify):
OPNIA COSti
HCAI Approval
Date: 11/25/2024
Name: William Staehlin Title: Senior Structural Engineer
Condition of Approval (if applicable):





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CONNECTOR BRACKET DETAILS WAGON ATTACHMENT DETAILS STP FASTENER TO WAGON CONNECTION DETAILIAM Staehlin	
NOTES: I. THESE DRAWINGS ARE PREPARED FOR SYSMEX AMERICA, INC., LINCOLNSHIRE, 2. THE CONTRACTOR & INSPECTOR OF RECORD SHALL OBTAIN A COPY OF THIS FROM THE DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION (HCAI) F PROGRAMS WEBSITE.	PRE-APPROVAL
3. THIS PRE-APPROVAL COVERS THE SUPPORTS & ATTACHMENTS OF THE EQUIPMENT TO THE SUPPORTING STRUCTURE. THE EQUIPMENT, SUPPORT & ATTACHMENT HARDWARE ARE SUPPLIED BY THE MANUFACTURER. THE EXPANSION ANCHORS, THRU-BOLTS & STRUT PLATES SHOWN IN THIS OPM SHALL BE SUPPLIED & INSTALLED BY THE CONTRACTOR.	PROFESS /OW/
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	Iob No: 23029.04
	Job No: 23029.04 Date: 11-04-2024 Page: 1 of



GENERAL NOTES:

- 1. THIS HCAI PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2022. THE DEMAND (DESIGN FORCES) FOR USE W/ THIS OPM SHALL BE BASED ON THE CBC 2022.
- 2. IT IS THE RESPONSIBILITY OF THE SEOR FOR A SITE SPECIFIC PROJECT TO VERIFY:
 - A. THE ADEQUACY OF THE NEW OR EXISTING STRUCTURE TO RESIST THE FORCES & WT SPECIFIED FOR EA EQUIP IN ADDITION TO ALL OTHER LOADS. PROVIDE & DESIGN SUPPLEMENTARY MEMBERS AS REQ.
 - B. THAT THE FLR ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPGS.
 C. THAT THE FLR ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY NEW OR EXISTING ANCHORS. THE SPCG SHOWN IN THE EXPANSION ANCHOR TABLE ON <u>PG 3</u> IS THE REQ MIN SPCG OF THE GIVEN DIA ANCHORS. THE REQ SPCG FROM ANCHORS OF OTHER DIAMETERS & EMBEDMENTS MAY
 - VARY & SHALL BE EVALUATED BY THE SEOR.
 - D. THAT THE INSTALLATION IS IN CONFORMANCE W/ THE CBC 2022 & W/ THE DETAILS SHOWN IN THIS PRE-APPROVAL.
 - E. THAT THE ACTUAL EQUIP'S WT, CENTER OF GRAVITY (CG) LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS, & THE MATERIAL & GAGE OF THE EQUIP WHERE ATTACHMENTS ARE MADE, AGREE W/ THE INFO SHOWN ON THE PRE-APPROVAL DOCUMENTS.
 - F. THAT THE CONC SLAB TO WHICH THE EQUIP IS ANCHORED SHALL MEET THE REQUIREMENTS OF THE APPLICABLE ICC REPORT & THIS OPM. CODE
- 3. EXPANSION ANCHORS INSTALLED IN NWC OR SLWC SHALL BE CARBON STEEL HILTI KB-TZ2 EXPANSION ANCHORS AS NOTED COMPLYING W/ ESR-4266 REISSUED DECEMBER 2023.
 - A. INSTALLATION: INSTALL THE EXPANSION ANCHORS IN ACCORDANCE W/ THE REQUIREMENTS GIVEN IN THE ICC EVALUATION REPORT FOR THE SPECIFIC ANCHOR & THE PARAMETERS GIVEN IN THE EXPANSION ANCHOR TABLE ON PG 3.
 - B. JOB TESTING: FOR VERIFYING SATISFACTORY INSTALLATION WORKMANSHIP, PERFORM JOBSITE TESTING IN ACCORDANCE W/ THE EXPANSION ANCHOR TABLE PROVIDED IN THIS DOCUMENT. TORQUE TEST 50% OF THE INSTALLED ANCHORS. ALL TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE SPECIAL INSPECTOR & REPORT OF TEST RESULTS SHALL BE SUBMITTED TO HCAI. 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 EQUIP INSTALLATION, HOWEVER NUT SHALL BE RETORQUED TO INSTALLATION TORQUE AFTER EQUIPMENT INSTALL. ALSO REFER TO 2022 CBC 1910A.5 "TESTS FOR POST-INSTALLED ANCHORS IN CONCRETE". REPORT OF TEST RESULTS SHALL BE SUBMITTED TO HCAI.
 - C. FAILURE/ACCEPTANCE CRITERIA: THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
 - <u>TORQUE WRENCH METHOD</u>: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS:
 - WEDGE TYPE: ONE-HALF (½) TURN OF THE NUT.

D. AVOID DAMAGING (E) STL REINF IN CONC SLAB WHEN INSTALLING CONC EXPANSION ANCHORS.

- E. PROVIDE FOR FULL THRD ENGAGEMENT OF NUT & WASHER.
- 4. BOLTS THRU CONC ON MTL DECK:
 - A. BOLTS SHALL BE TORQUED BY 3/4 TURN OF THE NUT AFTER SNUG TIGHT CONDITION IS ACHIEVED, UNO. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS REQ TO BRING THE CONNECTED PLIES INTO FIRM CONTACT.
 - B. THRU-BOLT HOLES SHALL BE χ_6 " LARGER THAN BOLT SIZE (HOLE SIZE = BOLT SIZE + χ_6 ").
 - C. THRU-BOLTS IN CONC SHALL RÉCEIVE SPECIAL INSPECTION & TESTING IN ACCORDANCE W/ REQUIREMENTS FOR POST-INSTALLED ANCHORS. THRU-BOLTS W/ STL TO STL CONN IN TENSION <u>DO NOT</u> REQUIRE TESTING.

SHEET TITLE: GENERAL NOTES



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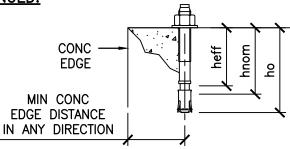
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EXPANSION ANCHOR TABLE

CONDITION OF ANCHORAGE	ANCHOR DIA & TYPE (INCH)	INSTALLATION EMBED (INCH) hnom	EFFECTIVE EMBED (INCH) hef	HOLE DEPTH (INCH) ho	MIN CONC THK (INCH) h	MIN CONC EDGE DISTANCE (INCH)	MIN ANCHOR SPCG (INCH)	TEST TORQUE (FT-LBS)
CASE 1 STRUT ₽'S	⅔ KB−TZ2	1 ¹³ ⁄16	1½ P		31/4	6	SEE <u>PG 10</u>	25
CASE 2	⅓ KB−TZ2	21/2	2	2¾	31⁄4	8	3	40
CASE 3	⅓ KB−TZ2	21/2	2	23⁄4	4	28	3	40

z/h

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0

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ROOF

3RD FLR

2ND FLR

BASE

BASEMENT

BLDG ELEV

TE OF CALIF

5. THREE (3) CASES OF ATTACHMENT ARE SPECIFIED & PRESENTED IN THIS PRE-APPROVAL:

- CASE 1: ATTACHMENT DETAILS LOCATED AT UPPER FLRS ABV THE BASE OF A BLDG. THE FLRS ARE ASSUMED TO BE BUILT OF A MIN 3¼" SLWC TOPPING OVER 3" DEEP MIN 20 GA MTL DECK (f'c = 3000 PSI, MIN). 4 ANCHORS SHALL BE CARBON STEEL THRD ROD THRU CONC FILL & MTL DECK.
- **<u>CASE 2:</u>** ATTACHMENT DETAILS LOCATED AT UPPER FLRS ABV THE BASE OF A BLDG. THE FLRS ARE ASSUMED TO BE BUILT OF A MIN 3/4" SLWC TOPPING OVER 3" DEEP MIN 20 GA MTL DECK (f'c = 3000 PSI, MIN). ANCHORS SHALL BE 304 SS & INTO CONC FILL.
- <u>CASE 3:</u> ATTACHMENT DETAILS LOCATED AT OR BLW THE BASE OF A BLDG. THE FLRS ARE ASSUMED TO BE BUILT OF A MIN 4" NWC SLAB (f'c = 3000 PSI, MIN). ANCHORS SHALL BE 304 SS.

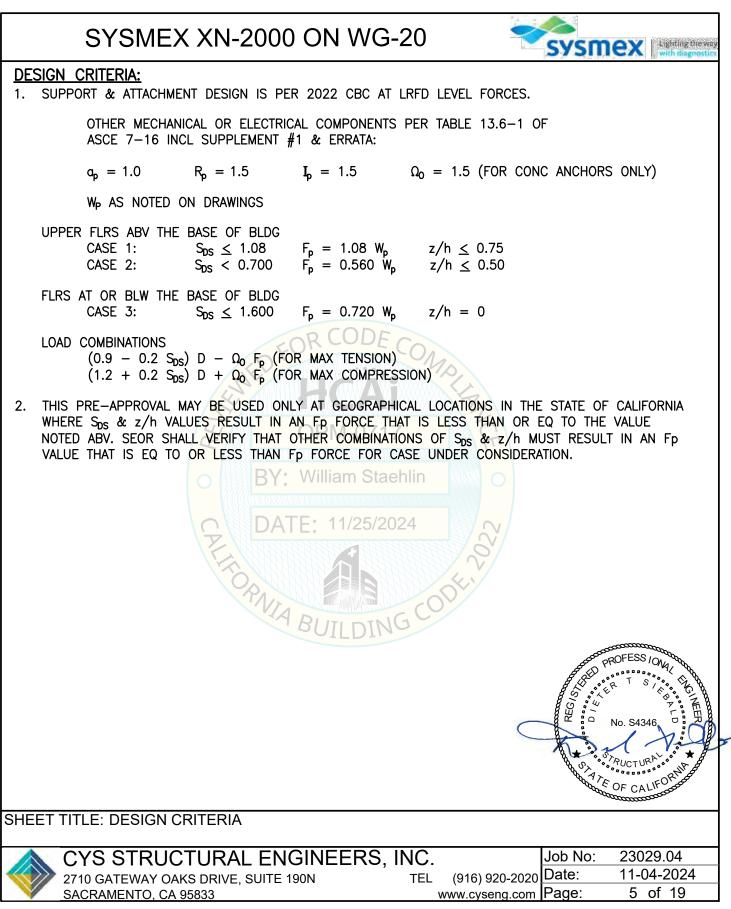
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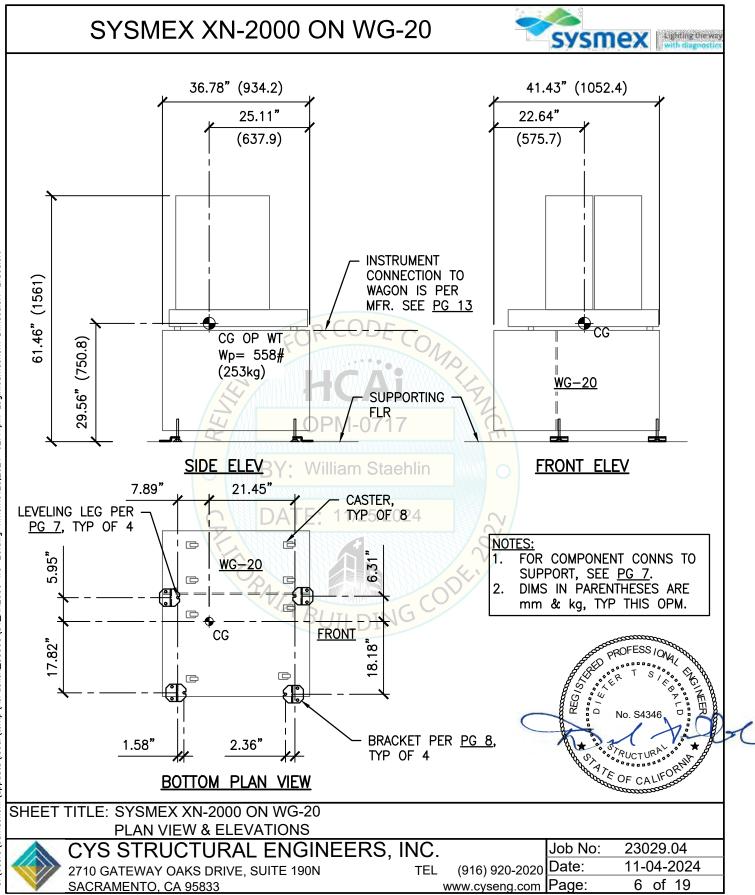


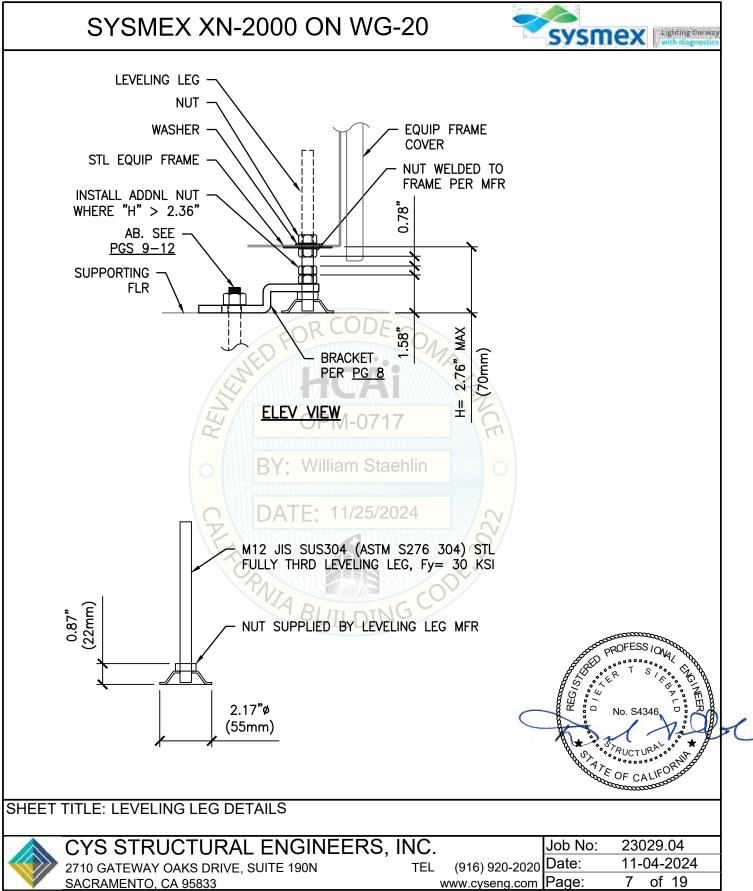
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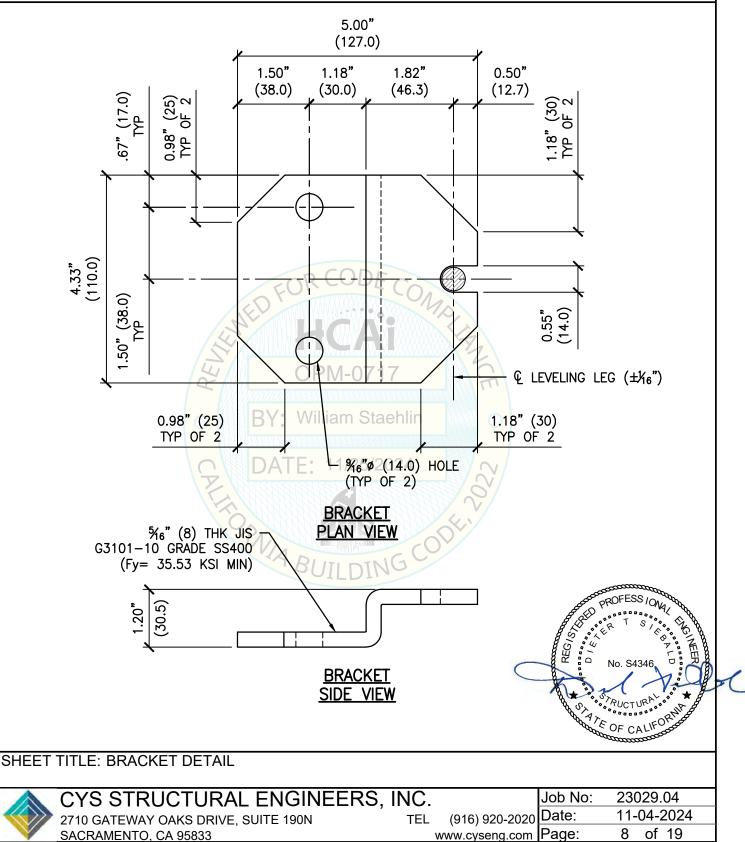
			27 SILLEA with diagnostics
ABBREV	IATIONS:		
AB	ANCHOR BOLT	NO. (#)	NUMBER OR POUNDS
ABV	ABOVE	NWC	
ADJ			NORMAL WEIGHT CONCRETE
		OP	OPERATING
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	OPG	OPENING
BLDG	BUILDING	OPM	HCAI PRE-APPROVAL OF
BLW	BELOW		MANUFACTURER'S CERTIFICATION
CBC	CALIFORNIA BUILDING CODE	PERP	PERPENDICULAR
CG	CENTER OF GRAVITY	PG	PAGE
€ €	CENTERLINE	£	PLATE
CONC	CONCRETE	PSI	POUNDS PER SQUARE INCH
CONN	CONNECTION		
COORD	COORDINATE	REQ	REQUIRED
DIA (Ø)	DIAMETER	SEOR	STRUCTURAL ENGINEER OF RECORD
		SLWC	SAND-LIGHTWEIGHT CONCRETE
DIM	DIMENSION	SPCG	SPACING
(E)	EXISTING CONDITION	STL	STEEL
EA	EACH	THK	THICK/THICKNESS
EE	EACH END	DTu C	ANCHORAGE TENSION REACTION DUE TO
ELEV	ELEVATION	VIX VIII	SEISMIC FORCE AT LRFD
EQ	EQUAL	THRD	THREAD OR THREADED
EQUIP	EQUIPMENT	T&B	TOP & BOTTOM
f'c	MINIMUM ULTIMATE COMPRESSIVE	TYP	TYPICAL
	STRENGTH OF CONCRETE	Vu	ANCHORAGE SHEAR REACTION DUE TO
FLR	FLOOR 44 OPM-	0717	SEISMIC FORCE AT LRFD
Fy	SPECIFIED YIELD STRENGTH OF	w/	WITH M
·)	REINFORCING, PS OF STEEL, KSI	Wp	COMPONENT OPERATING WEIGHT
GA	GAUGE RY: William		
HCAI	DEPARTMENT OF HEALTH CARE ACCESS	Swaeriin	WEIGHT
	AND INFORMATION		
ICC			
	INCH	25/2024	
IN (")		77888888888888	
INFO	INFORMATION	1999999999	
KSI	KIPS PER SQUARE INCH	THARAPPA	
LBS	POUNDS	DING CO	
LRFD	LOAD & RESISTANCE FACTOR DESIGN		
MAX	MAXIMUM		
MIN		DING	
MFR	MANUFACTURER		Comment
mm	MILLIMETER		PROFESS/04
MTL	METAL		
			A CONTRACTOR OF THE AND A CONTRACTOR OF THE ADDRESS
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			the set view
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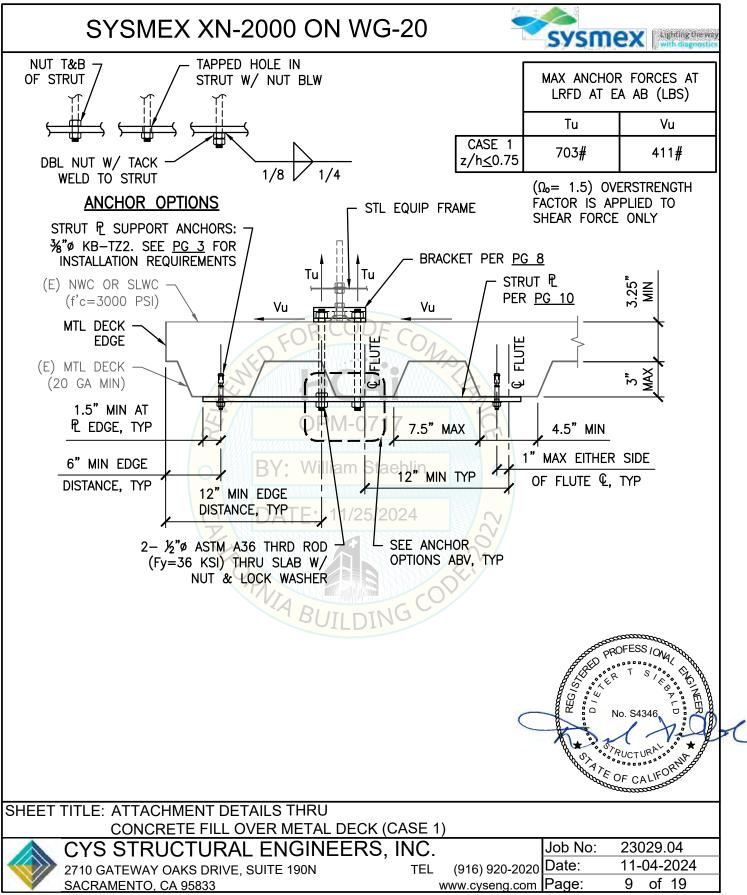


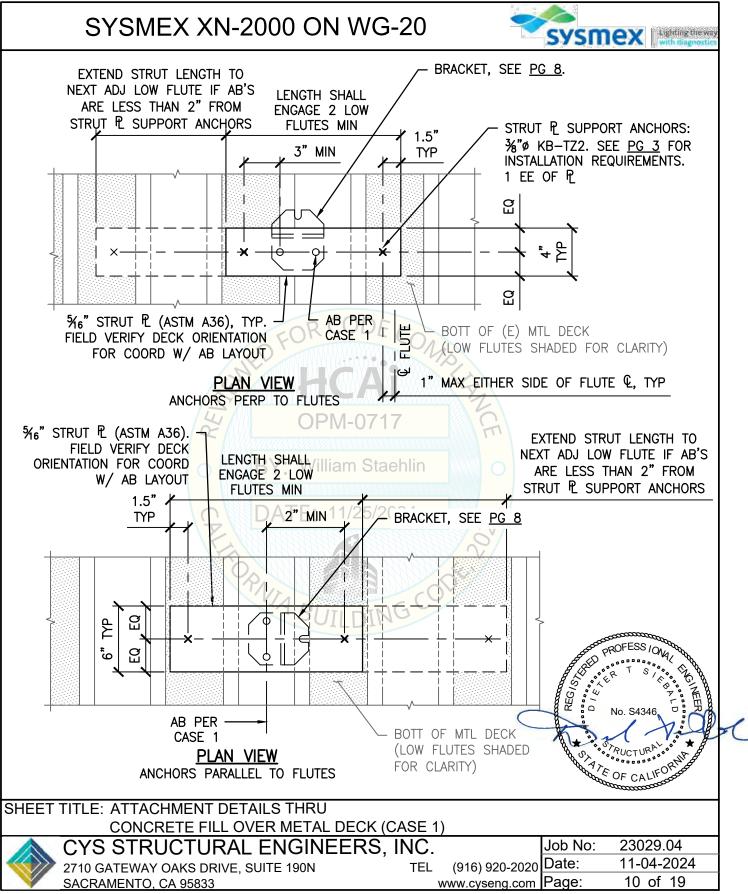












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