

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT **FACILITIES DEVELOPMENT DIVISION**

APPLICATION FOR OSHPD PREAPPROVAL OF	OFFICE USE ONLY					
MANUFACTURER'S CERTIFICATION (OPM)	APPLICATION #: OPM-0629					
OSHPD Preapproval of Manufacturer's Certification (OPM)						
Type: X New Renewal/Update						
Manufacturer Information						
Manufacturer: Hospital Systems, Inc.						
Manufacturer's Technical Representative: Kathie CAMPBELL						
Mailing Address: 750 Garcia Ave., Pittsburg, CA 94565						
Telephone: (925) 427-7800 Email: kcampbell@hsiheadw	valls.com					
EOR CODE CO.						
Product Information OSHPD						
Product Name: WINDOW SPANNING HEADWALL						
Product Type: Hospital Patient Headwall						
Product Model Number: WINDOW SPANNING BY: William Staehlin						
General Description: Patient Headwall						
DATE: 10/01/2021	501					
Applicant Information						
Applicant Company Name: CYS STRUCTURAL ENGINEERS						
Contact Person: DIETER SIEBALD						

Mailing Address: 2495 Natomas Park Drive, #650, SACRAMENTO, CA 95833

Telephone: (916) 920-2020 Email: dieters@cyseng.com

Title: STRUCTURAL ENGINEER

"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 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:						
a un						
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.						
X Analysis BY: William Staehlin						
Experience Data DATE: 10/01/2021						
Combination of Testing, Analysis, and/or Experience Data (Please Specify):						
CODE CODE						
OSHPD Approval BUILDING						
Date: 10/1/2021						
Name: William Staehlin Title: Senior Structural Engineer						
Condition of Approval (if applicable):						

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









TABLE OF CONTENTS OPM-0629

	PAGE
GENERAL NOTES ABBREVIATIONS	
DESIGN CRITERIA & LOAD COMBINATIONS	4
HEADWALL ELEVATIONS	6
ATTACHMENT TO WINDOW MULLIONS	7

NOTES: 1. THESE DRAWINGS ARE PREPARED FOR HOSPITAL SYSTEM, INC., PITTSBURG, CA

- 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 AND ATTACHMENTS OF THE EQUIPMENT TO THE SUPPORTING STRUCTURE. THE EQUIPMENT IS SUPPLIED BY THE MANUFACTURER. THE SCREWS & BACKING PLATES SHOWN IN THIS OPM SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.

BY: William Staehlin

DATE: 10/01/2021



SHEET TITLE: TABLE OF CONTENTS



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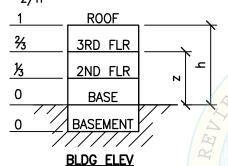
Job No: 20109

Date: 09-24-2021 Page: 1 of 6



GENERAL NOTES:

- 1. THIS OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2019. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2019.
- 2. IT IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD FOR A SITE SPECIFIC PROJECT TO **VERIFY:**
 - THE ADEQUACY OF THE NEW OR (E) STRUCTURE TO RESIST THE FORCES & WT SPECIFIED FOR EA EQUIP IN ADDITION TO ALL OTHER LOADS. PROVIDE & DESIGN SUPPLEMENTARY MEMBERS AS REQ.
- THAT THE INSTALLATION IS IN CONFORMANCE W/ THE CBC 2019 & W/ THE DETAILS SHOWN IN THIS PRE-APPROVAL.
- THAT THE ACTUAL EQUIP'S WT, CENTER OF GRAVITY (CG) LOCATION, ATTACHMENT LOCATIONS, ATTACHMENT DETAILS, & THE MATERIAL & GA OF THE EQUIP WHERE ATTACHMENTS ARE MADE, AGREE W/ THE INFO SHOWN ON THE PRE-APPROVAL DOCUMENTS.
- D. THAT THE PROJECT SPECIFIC VALUES OF S_{DS} & z/h RESULT IN SEISMIC FORCES THAT \underline{DO} NOT EXCEED THE VALUES PROVIDED IN THE DESIGN CRITERIA.
- 3. ONE (1) CASE OF ATTACHMENT IS SPECIFIED & PRESENTED IN THIS PRE-APPROVAL: z/h



CASE 1: ATTACHMENT DETAILS LOCATED AT UPPER FLRS ABV THE BASE OF A BLDG $(z/h \le 1.0)$. MAY BE USED AT ANY GEOGRAPHICAL LOCATION IN THE STATE OF CALIFORNIA WHERE SDS IS LESS THAN OR EQ TO 2.5.

SHEET TITLE: GENERAL NOTES



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20109 Job No: 09-24-2021

2 of 6

Login:camachom Dimscale:4 LTScale:6



ABBREVIATIONS:

GRADE

HORIZONTAL

GYPSUM WALLBOARD

ADDICE	<u>VIATIONS.</u>		
Ω_{o}	SEISMIC OVERSTRENGTH FACTOR	IN (")	INCH
0	AT	INFÒ	INFORMATION
ABV	ABOVE	KSI	KIPS PER SQUARE INCH
ASCE	AMERICAN SOCIETY OF	LBS	POUNDS
	CIVIL ENGINEERS	LL	LIVE LOAD
ASD	ALLOWABLE STRESS DESIGN	LRFD	LOAD AND RESISTANCE FACTOR DESIGN
ASTM	AMERICAN SOCIETY FOR	MAX	MAXIMUM
	TESTING & MATERIALS	MIN	MINIMUM
BLDG		NS&FS	NEAR SIDE & FAR SIDE
CBC	CALIFORNIA BUILDING CODE	OPM	OSHPD PRE-APPROVAL OF MANUFACTURER'S
CG	CENTER OF GRAVITY		CERTIFICATION
Q	CENTERLINE	OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING
DIA (ø)	DIAMETER		& DEVELOPMENT
DL `	DEAD LOAD	PERP	PERPENDICULAR
EE	EACH END	PG	PAGE
ELEV	ELEVATION	PL	PLATE
EQUIP	EQUIPMENT	REQ	REQUIRED
FLR	FLOOR	SMSDE	SHEET METAL SCREW
FT (')	FLOOR FOOT/FEET	SQ	SQUARE
Fp	HORIZONTAL SEISMIC FORCE PER	STL	STEEL
•	ASCE 7-16 SEISMIC FORCE REQUIREMENTS	니 D F	TENSION
Fv	VERTICAL SEISMIC DESIGN FORCE PER	THK	THICK/THICKNESS
	ASCE 7-16 SECTION 12.4-4	THRD	THREAD/THREADED
	SEISMIC DESIGN FORCE REQUIREMENTS OPM	TYP629	TYPICAL
Fy	SPECIFIED MINIMUM YIELD	V	SHEAR
-	STRESS OF STEEL	W/	WITH
GA	GAUGE BY: Willia	wnwSta	WINDOW
CD	CPADE	11011	THI DOTT

SHEET TITLE: ABBREVIATIONS

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GR

GWB

HORIZ

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OPERATING WEIGHT

WEIGHT

Job No: 20109 09-24-2021

www.cyseng.com Page: 3 of 6



DESIGN CRITERIA

SUPPORT & ATTACHMENT DESIGN IS PER 2019 CBC AT LRFD LEVEL FORCES. OTHER RIGID COMPONENTS LOW DEFORMABILITY ELEMENTS & ATTACHMENTS. PER TABLE 13.5-1 OF ASCE 7-16 SUPPLEMENT #1

$$a_p = 1.0$$
 $R_p = 1.5$ $I_p = 1.5$

MAX W_D AS SHOWN IN TABLE ON PG 5.

 $E_v + F_v = \pm 0.2 S_{DS} W_p = 0.50 W_p$

FOR CASE 1 — UPPER FLRS ABV THE BASE,
$$z/h <= 1.0$$
 $S_{DS} = 2.5$ $F_p = 0.4q_p S_{DS} W_p (1+2 z/h) = 3.0 W_p$ ASCE 7-16 (13.3-1) (Rp/Ip) $F_p (MAX) = 1.6 S_{DS} IpW_p = 6.00 W_p$ ASCE 7-16 (13.3-2) $F_p (MIN) = 0.3 S_{DS} IpW_p = 1.125 W_p$ ASCE 7-16 (13.3-3)

OSHPD

ASCE 7-16 (12.4-4)

OPM-0629

BY: William Staehlin

LOAD COMBINATIONS

 $(1.2+0.2 S_{DS}) D+1.0E+L$ $(1.0+0.14 S_{DS}) D+0.7E$ LRFD ASD

LOAD COMBINATIONS WERE RUN FOR 100% OF HORIZ FORCE IN ONE DIRECTION & 30% OF HORIZ FORCE IN THE PERP DIRECTION.

BUILDING

PROFESS /ON T S IN THE TENT OF CALIFORNIA

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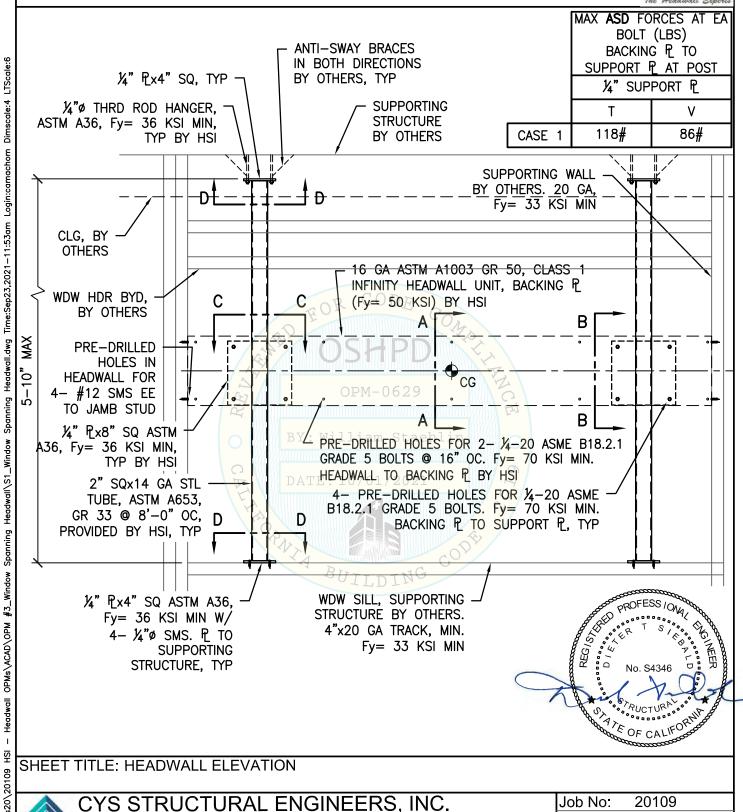
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Job No: 20109 Date: 09-24-2021

Page: 4 of 6





10/01/2021

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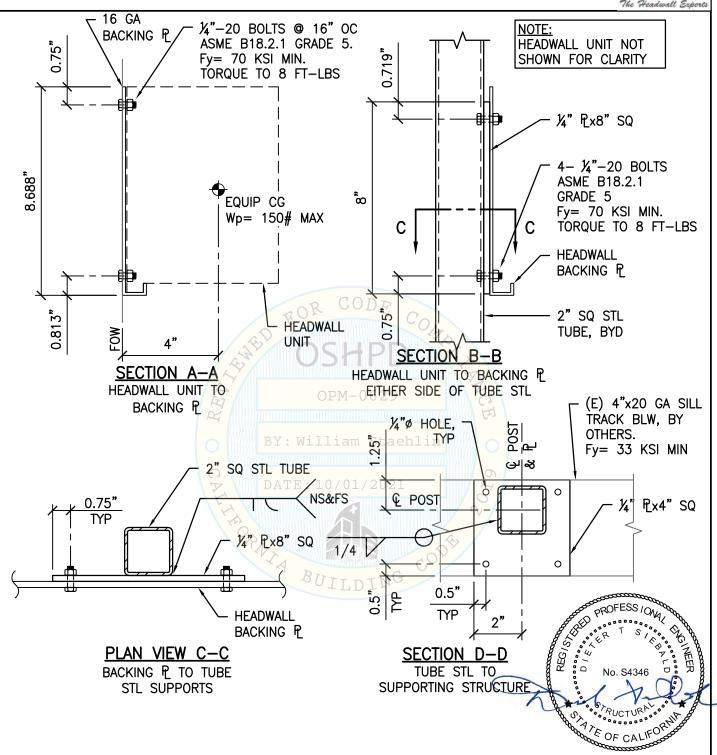
09-24-2021

5 of 6

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Page: 6 of 6

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