#### **OSHPD**

#### Office of Statewide Health Planning and Development Facilities Development Division (FDD)



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			201	6 California Building Standards Co	ode (CBSC	2016)	
			Struc	tural Construction Documents Rev	iew Remin	der List	
				For OSHPD 1 Facilities	S		
Item #	Re	soluti	on	Requirement(s)	Code(s)	Section(s)	Comment(s)
	Yes	No	N/A				
1				Design demand/general requirements			
1.1	$\boxtimes$			Construction documents	СВС	1603A	
1.2		$\boxtimes$		General	CBC	1603A.1	
1.3			$\boxtimes$	Floor live load	CBC	1603A.1.1	
1.4	$\boxtimes$			Roof live load	CBC	1603A.1.2	
1.5		$\boxtimes$		Roof snow load	CBC	1603A.1.3	
1.6			$\boxtimes$	Wind design data	CBC	1603A.1.4	
1.7	$\boxtimes$			Earthquake design data	CBC	1603A.1.5	
1.8		$\boxtimes$		Geotechnical information	CBC	1603A.1.6	
1.9			$\boxtimes$	Flood design data	CBC	1603A.1.7	
1.10	$\boxtimes$			Special loads	CBC	1603A.1.8	
1.11				List of equipment and components that require special seismic certification	СВС	1705A.13.3	
1.12		$\boxtimes$		Deferred approval list	CAC	7-126	
1.13				Alternative system approval	CAC	7-104	
1.14	U			Registered Design Professional (RDP) approval/acceptance	CAC	7-115	
1.15		☒		Unusual erection or construction procedure	СВС	1603A.1.9	
1.16		$\boxtimes$		Live and snow load posting	CBC	106	
				Capacity requirements			
2				Steel			
2.1	$\boxtimes$			Design drawings and specification	AISC 341/360	A4	
2.2		$\boxtimes$		Connections detailed	CBC	1603A.1.5.1	
2.3			$\boxtimes$	Materials identified	CBC	2203A.1	
2.4	$\boxtimes$			Steel joist drawings	CBC	2207A.4	

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	Yes	No	N/A				
3				Concrete			
3.1		$\boxtimes$		Construction documents	CBC	1901A.5	
3.2			$\boxtimes$	Drawings and specifications	ACI 318	26	
3.4	$\boxtimes$			Materials identified	СВС	1903A.1	
3.5	$\boxtimes$			Large openings detailed on drawings	СВС	1901A.5	
4				Masonry			
4.2			$\boxtimes$	Drawings and specifications	TMS 402	1.2	
4.3	$\boxtimes$			Materials identified	CBC	2103A	
5				Wood			
5.2			$\boxtimes$	Drawings and specifications	NDS	1.5	
5.3			$\boxtimes$	Material Standards and Quality	CBC	2303	
5.4	$\boxtimes$			Truss design drawings	CBC	2303.4	
6				Geotechnical			
6.1			×	Reference to Geotechnical report on drawing	СВС	1803A.7	
6.2				Compacted fill materials and testing requirements	СВС	1803A.5.8	
7				Structural Sealants			
7.1				AAMA 501.4, AAMA 501.6 and QA testing	СВС	2410.1.2	
7.2				Construction Documents	CBC	2410.1.4	
7.3				Monitoring	CBC	2410.1.3	
8				Structural calculations			
				Chapter 1 – Scope and Administration			
8.1		⊠		Calculations substantially complete	СВС	1603A.3	
8.2			$\boxtimes$	Index with page numbers	CBC	1603A.3	
8.3	⊠			Overall project design basis (basic descriptions, demand parameters, materials, load combinations, etc.)	СВС	1603A.3	

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	Yes	No	N/A				
8.4		⊠		Each section (Gravity system, LFRS, foundations, enclosure, etc.) of the calculations preceded by design basis	СВС	1603A.3	
9				Chapter 16A – Structural Design			
9.1			$\boxtimes$	Load Combinations	СВС	1605A	
9.2	$\boxtimes$			Deflection Criteria	CBC	1604A.3	
9.3	×			Reroofing load for roof dead load	СВС	1606A.3	
9.4		×		Wind design exposure justified (Exposure C shall apply for all cases where exposure B or D do not apply)	СВС	1609A.4.3	
9.5		×		Applicable wind speed verified with local building department	ASCE 7	26.5.2	
9.6				Importance factor for wind	ASCE 7	Tables 1.5- 2	
9.7		$\boxtimes$		Story drift for wind loads	CBC	1609A.1.3	
9.8				Seismic Design Category D minimum	СВС	1613A.3.5	
9.9		×		Diaphragm flexibility consideration	ASCE 7	12.3.1	
9.10		☒		Irregular and regular classification	ASCE 7	12.3.2	
9.11				Checked for absence of prohibited irregularities	СВС	1616A.1.10	
9.12		×		Importance factor for Seismic	ASCE 7	Table 1.5-2	
9.13				R for Seismic Force Resisting system	ASCE 7	Table12.2-1	
9.14		$\boxtimes$		R for Nonbuilding Structures	ASCE 7	Table15.4-1 & 2	
9.15		$\boxtimes$		Seismic increment of earth pressure	СВС	1616A.1.11	

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	Yes	No	N/A				
9.16		×		Snow load larger than 30 psf. considered in seismic mass and ground snow load verified with local building department	ASCE 7	12.7.2.4	
9.17		⊠		Continuous load path and interconnection	ASCE 7	12.1.3	
9.18		×		Orthogonally effect consideration	ASCE 7	12.5.4	
9.19		$\boxtimes$		Redundancy	ASCE 7	12.3.4	
9.20		$\boxtimes$		Building separation	CBC	1616A.1.15	
9.21				Foundation and superstructure- to-foundation connection	СВС	1616A.1.16	
9.22				Requirements for member supporting discontinuous walls or frames	ASCE 7	12.3.3.3	
9.22		×		Collector elements strength check	ASCE 7	12.10.2	
9.23				Seismic detailing requirements complied even when wind govern design	СВС	1604A.10	
9.24				Prohibited lateral force resisting system not used	СВС	1616A.1.4	
9.25				Seismic design requirements (F <sub>p</sub> ) for nonstructural components by level(s)	ASCE 7	Chapter 13	
9.26		$\boxtimes$		Masonry and concrete wall anchorage	СВС	1604A.8.2	
10				Chapter 18A – Soils and Foundations			
10.1		$\boxtimes$		Design for Capacity and Settlement	СВС	1808A.2	
10.2		$\boxtimes$		Stepped footing detail	СВС	1809A.3	
10.3		$\boxtimes$		Pipes crossing footing and trenches at footing	СВС	1809A.14	
10.4		⊠		Shallow & Deep Foundations not combined	СВС	1808A.2	

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	Yes	No	N/A				
10.5		×		Footing size and depth consistent with geotechnical report	СВС	1808A.1	
10.6		$\boxtimes$		Shallow foundation design	CBC	1809A	
10.7		$\boxtimes$		Deep foundation design	CBC	1810A	
10.8		$\boxtimes$		Pile load test	CBC	1810A.3.3	
10.9		$\boxtimes$		Helical piles requirements	CBC	1810A.3.1.5	
10.10		$\boxtimes$		Micropile seismic requirements	СВС	1810A.3.10. 4	
10.11		⊠		Foundation anchor requirements	СВС	1811A	
10.12		$\boxtimes$		Steel H-piles	AISC 341	D4	
10.13		$\boxtimes$		Earth retaining shoring	CBC	1812A	
10.14		$\boxtimes$		Vibro-Stone Columns (VSC)	CBC	1813A	
11				Chapter 19A - Concrete			
11.1	×			Concrete exposure category and classes	СВС	1904A.1	
11.2				Specified compressive strength between 3 ksi to 8 ksi	СВС	1905A.1.9	
11.3		$\boxtimes$		Minimum foundation wall reinforcing	СВС	1905A.1.6	
11.4				Minimum reinforcement in wall and diaphragm boundary elements	СВС	1905A.1.11 & 1905A.1.12	
11.5		X		Additional column ties at top and bottom	ACI	18.6.4	
11.6		$\boxtimes$		Anchor bolts (cast-in-place and post-installed)	СВС	1616A.1.19	
11.7		$\boxtimes$		Power actuated fasteners	CBC/ ASCE	1616A.1.20	
11.8		$\boxtimes$		Slender walls design	ACI	11.8	
11.9		×		Precast panel cladding	ACI	4.12.1 & 11.7	
11.10		×		Structural plain concrete not used	СВС	1906A	
11.11		$\boxtimes$		FRP strengthening of existing concrete members	СВС	1911A.3	

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	Yes	No	N/A				
12				Chapter 21A – Masonry			
12.1		×		Design method allowable stress or strength	СВС	2101A.2	
12.2		×		Prohibited masonry design methods, systems, and materials not used	СВС	2101A.1.3	
12.3		×		Specified compressive strength between 2.0 ksi to 3.5 ksi	СВС	2105A.2	
12.4		$\boxtimes$		Minimum reinforcement in walls	CBC	2106A.1.1.1	
12.5		☒		Minimum reinforcement for columns	СВС	2106A.1.1.2	
12.6		☒		Lateral support of masonry walls	СВС	2106A.1.1.3	
12.7		$\boxtimes$		Anchor bolt details	CBC	2106A.1.1.4	
13				Chapter 22A - Steel			
13.1				Welding requirements	AISC 341/CBC	A3.4/2204A .1	
13.2		$\boxtimes$		Welded shear connectors design	AISC 341	D2.8	
13.3				Column base plate design	CBC	2204A.4	
13.4		×		Composite structures approved as an alternative system	СВС	2206A.2.1	
13.5		$\boxtimes$		SCBF requirements	CBC	2205A.4.5	
13.6		$\boxtimes$		SMRF connection requirements	CBC	2205A.4	
13.7				Steel deck diaphragm design and construction	СВС	2210A.1.1 & 1604A.3.7	
13.8		×		Metal deck with insulating fill approval as an alternative system	СВС	2514	
13.9		×		Steel-light framed construction	СВС	2211A	
14				Chapter 23 – Wood			
14.1		×		Design method allowable stress or strength	СВС	2301.2	

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	Yes	No	N/A				
14.2		×		Prohibited masonry design methods, systems, and materials not used	СВС	2301.1.4	
14.3		×		Conventional Light-frame Construction NOT used	СВС	2308.2.6	
14.4		☒		Maximum diaphragm aspect ratio	SDPWS	4.2.4	
14.5		×		Wood-frame diaphragm deflection	SDPWS	4.2.2	
14.6				Maximum shear wall aspect ratio	SDPWS	4.3.4	
14.7		$\boxtimes$		Wood-frame shear wall deflection	SDPWS	4.3.2	
15				Chapter 34A – Existing Structures			
15.1		⊠		Pre-Northridge SMRF have seismic response modification factor of OMF	СВС	3401A.4.3	
15.2		$\boxtimes$		Demand for voluntary seismic improvements	СВС	3404A.5	
15.3				Demand for incidental and minor alterations pre-1973 buildings not designated as SPC 3 or higher	СВС	3411A	
15.4		×		Acceptable analysis procedure from ASCE 41	СВС	3412A.1.3	
15.5		×		Appropriate BSE-X ground motion used for analysis	СВС	3413A.1.2	
15.6		×		Data collection program and results approved by OSHPD. Tension testing of rebar requirements.	СВС	3413A.1.3	
15.7		×		Structural design criteria approved for nonlinear dynamic procedure	СВС	3412A.1.4	
16				Nonstructural Review			

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	Yes	No	N/A				
16.1		×		Special seismic certification of equipment and components	СВС	1705A.13.3	
16.2		☒		Importance factor for Supports and Attachments	СВС	1616A.1.17	
16.3		☒		Ceiling design comply with ASTM E 580	СВС	1616A.1.21	
16.4		☒		Interior walls and partitions	СВС	1607A.14	
16.5		⊠		Veneer wall deflection	СВС	Table 1604A.3	
16.6		⊠		Adhered and anchored veneer not used for overhead application	СВС	1411	
16.7		☒		Seismic anchorage of shingle and tile roof coverings	СВС	1513	
16.8		$\boxtimes$		Roof slope and drainage	CBC	1503.4	
16.9		$\boxtimes$		Minimum glazing requirements	CBC	2403.2.1	
16.10		$\boxtimes$		Wall and diaphragm openings	CBC	1901A.5.12	
16.11				Seismic joints for members spanning between structures	ASCE 7	12.12.4	
16.12				Access floor designed as special access floor	СВС	1616A.1.22	
16.13				Distribution system seismic bracing	CBC /ASCE 7	1616A / 13.6	
16.14		⊠		Elevator rail support and retainer plates	СВС	1616A.1.27 & 1616A.1.28	
18				Testing, Inspection, and Observation (TIO) Program			
18.1	×			Completed TIO form	СВС	1701A.3	
18.2				Approved Agency/Inspectors acceptable	CAC	7-144	
18.3		⊠		Steel inspection and testing	СВС	1705A.2, 1705A.13.1, & 2213A	

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	Yes	No	N/A				
18.4		$\boxtimes$		Concrete inspection and testing	СВС	1705A.3, & 1910A	
18.5		×		Shotcrete inspection and testing	СВС	1705A.3, & 1908A.5, &1908A.10	
18.6		X		Masonry inspection and testing	СВС	1705A.4 & 2105A.	
18.7		$\boxtimes$		Wood inspection and testing	CBC	1705A.5	
18.8				Soils and foundations inspection and testing	СВС	1705A.6 through 1705A.9	
18.9		×		Architectural components inspection and testing	СВС	1705A.12.5	
18.10		☒		Plumbing, mechanical and electrical components	СВС	1705A.12.6	
18.11				Special Seismic Certification verification	СВС	1705A.12.4	
18.12				Special seismic certification of nonstructural components	СВС	1705A.13.3	
18.13		$\boxtimes$		Submittal to Building Officials	CBC	1704A.5	
20				Site Data			
20.1	$\boxtimes$			Site data Report Approved	CAC	7-117	
20.2	×			Geotechnical/Geohazard Report(s) approval	СВС	1803A.7	
20.3				Factor of safety for soil bearing larger than supported structure overstrength factor	СВС	1605A.1.1	
20.4	×			Deep foundation recommendations	СВС	1803A.5.5	

Note: Reminder list is to guard against routine oversights only. Design, construction, quality control/quality assurance, and construction documents review shall ensure compliance with the CBSC 2016.