



Testing, Inspection, and Observation Program

2019 California Building Standards Code - OSHPD 1

This program is prepared and submitted for an OSHPD 1 project. OSHPD 1 projects include all construction and remodel projects for: general acute care hospitals, acute psychiatric hospitals, and general acute care hospitals providing only acute medical rehabilitation center services.

SECTION A		PROJECT INFORMATION	
Facility #:	Facility Name:	Project #:	Sub #:
Street Address:			
City:		County:	
Record Name (Scope of Project):			
Abbreviations:			
CAC: California Administrative Code		AAMA: American Architectural Manufacturers Association	
CBC: California Building Code		NFPA: National Fire Protection Association	
CEC: California Electrical Code		FM: FM Approval Standards	
CMC: California Mechanical Code		DPOR: Design Professional of Record	
CPC: California Plumbing Code		Version: R03.7.8	

DESIGN PROFESSIONAL OF RECORD RESPONSIBILITY

The administration of the work of construction, including this TIO, shall be under the responsible charge of an architect and structural engineer. When a structural engineer is not substantially involved, the architect shall be solely responsible. Where neither structural nor architectural elements are substantially involved, a mechanical or electrical engineer registered in the branch of engineering most applicable to the project may be in responsible charge. (CAC 7-141(a))

Note: HCAI plan review staff must provide verification that the TIO program has been "Reviewed" prior to plan approval to confirm the applicability of the tests and inspections identified in the TIO program for work scope, building systems, and the construction materials shown in the design drawings. Field staff will issue subsequent "TIO Program Approval".

The "TIO Program Approval" from HCAI field staff must be obtained and included with the notice of start of construction required by CAC Section 7-137(a)4) and 7-145(a)5.A)

**Construction shall not commence until the health facility has obtained from HCAI "TIO Program Approval".
(CAC Section 7-135(a)3)**



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STRUCTURAL TESTS

Foundation							
B-F1	Soil fill CBC 1705A.6 Fill material acceptance test						
B-F2	Soil fill CBC 1705A.6 Compaction test						
B-F3	Soil and rock anchors CBC 1811A Load test						
B-F4	Deep foundation elements CBC 1810A.3.3.1.2, 1810A.3.1.5.1, 1810A.3.3.1.5, 1810A.3.3.2, & 1810A.3.10.4 Load test						
B-F5	Shoring CBC 1812A Tie-Back Anchors						
B-F6	Vibro Stone Columns (VSC) CBC 1813A Acceptance Test						
B-F7							
B-F8							

Concrete							
B-C1	Concrete CBC 1705A.3, 1903A.6 & 1910A.1; ACI-318 1.9.1 & 26.4 Cementitious materials						
B-C2	Concrete CBC 1705A.3, 1903A.5; ACI-318 1.9.1 & 26.4 Aggregates/Reactive aggregates						
B-C3	Concrete CBC 1705A.3, ACI-318 26.4.1.3, ASTM C1602 Water						
B-C4	Concrete CBC 1705A.3 & 1905A.1.15; ACI-318 26.12 Strength test						
B-C5	Concrete CBC 1705A.3 & 1910A.2 & ACI-318 20.2, 25.4.5.1 & 26.6.1.2 Metal reinforcement (including welded wire fabric and headed rebar)						
B-C6	Concrete CBC 1705A.3, 1901A.3 & ACI-318 20.4 Headed studs and headed stud assemblies						
B-C7	Concrete CBC Table 1705A.3, 1903A.8 Weldability of reinforcing bars						



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B-C8		Concrete CBC 1705A.3 & 1910A.3; ACI-318 20.3, 25.8 & 26.6.1.2 Prestressing tendons and anchorage					
B-C9		Concrete CBC 1911A.2; ACI-503.7 Crack repair by epoxy injection					
B-C10		Concrete CBC 1911A.3; ICC-ES AC 178 Sec. 9 Strengthening by externally bonded FRP					
B-C11		Shotcrete CBC 1908A.5 Preconstruction test					
B-C12		Shotcrete CBC 1908A.10 Strength test					
B-C13		Shotcrete CBC 1705A.19.1 Core test					
B-C14		Post-installed anchors CBC 1910A.5 Installation verification test (includes adhesive, shot pins and mechanical anchors)					
B-C15		Existing post-installed anchors CBC 1708A and CAC Chapter 6, Section 11.3 Direct tension test					
B-C16							
B-C17							
Masonry							
B-MA1		Masonry CBC 2105A.2; TMS 602 1.4.B.3 Material standards tests					
B-MA2		Masonry CBC 2105A.3 Mortar test					
B-MA3		Masonry CBC 2105A.3 Grout test					
B-MA4		Masonry CBC 2105A.2; TMS 602 1.4.B.3 Compressive strength f _m - prism test					
B-MA5		Masonry CBC 2105A.4 Core test					
B-MA6		Masonry CBC 1705A.4 Masonry anchors					



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B-MA7		Veneer CBC 1410.2 Veneer bond strength test					
B-MA8		Architectural Cast Stone CBC 2103A.1 Strength of stone anchorage ASTM C1354					
B-MA9							
B-MA10							
Steel							
B-S1		Steel CBC 2202A.1 Identification test for structural steel and cold formed steel					
B-S2		Steel CBC 2213A.1 & 1705A.13.1 High strength bolts, nuts, and washers					
B-S3		Steel CBC 2213A.2 & 1705A.13.1 End-welded studs					
B-S4		Steel CBC 1705A.2.1 & 1705A.13.1.2 Nondestructive testing of welds					
B-S5		Steel 1705A.13.1.2 & AISC-341 K3 Buckling restrained brace load test					
B-S6		Steel 2205A.4, 1705A.13.1 & AISC-341 K2 Beam to Column Moment Connections					
B-S7							
B-S8							
Other Structural Materials							
B-OM1		Aluminum CBC 2003.1 Testing and Inspection					
B-OM2		Structural Sealant Glazing CBC 2410.1.2 AAMA 501.4 & 501.6 tests - Exterior glass curtain walls					
B-OM3							



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B-OM4							
Alternative Systems							
B-AS1		Seismic Isolation System CBC 1705A.13.4 Prototype and production test					
B-AS2		Seismic Damping System CBC 1705A.13.4 Prototype and production test					
B-AS3		Structural Design Criteria CBC 104.11 Tests to support alternative system					
B-AS4		Wind Tunnel Testing CBC 1609A.1.1; ASCE 49 and Sec. 31.4 of ASCE 7 Wind tunnel testing					
B-AS5							
B-AS6							
Nonstructural Components, Supports and Attachments							
B-N1		Nonstructural components CBC 1705A.13.2					
B-N2		Special Seismic Certification CBC 1705A.13.3 Shake Table test					
B-N3							
B-N4							
ELECTRICAL TESTS							
B-E1		Ground Fault Protection of Equipment CEC 230.95(C) & 517.17(D)					
B-E2		Emergency Generator Tests CEC 700.3(A) & NFPA 110-2016 § 7.13					
B-E3		Automatic Transfer Switch Test NFPA 110-2016 § 7.13.4.1					
B-E4		Emergency Stored Electrical Energy System Test NFPA 111-2016 Section 7.6					
B-E5		Fire Pump Coordination Study and Testing CEC 695.3(C)(3)					



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B-E6		Essential Electrical System Coordination Study CEC 517.31(G) & 700.32					
B-E7		Elevator Selective Coordination Study CEC 620.62					
B-E8		Grounding System in Patient Care Spaces 2018 NFPA 99 6.3.3.1					
B-E9		Hospital Grade Receptacles 2018 NFPA 99 6.3.3.2.5					
B-E10		Isolated Power Systems – Line Isolation Monitor Test 2018 NFPA 99 6.3.3.3.2					
B-E11		Isolated Power Systems – Impedance of Isolated Wiring Test 2018 NFPA 99 6.3.2.9.2.1					
B-E12		Medium Voltage Outdoor Systems – Inspections and Test CEC 225.56					
B-E13		Medium Voltage Cable Testing CEC 328.14 & ANSI/NECA/NCSCB 600-2014					
B-E14		Insulation Testing CEC 110.7, 2018 NFPA 99 6.7.4.1.2.2					
B-E15		Torque Electrical Connections CEC 110.3(B) & 110.14(D)					
B-E16		Temporary Installation Grounding CEC 590.6					
B-E17		Nurse call system CEC 517.123					
B-E18		Arc Energy Reduction CEC 240.67 & 240.87					
B-E19		Short-Circuit Current Calculations CEC 110.24(A), 409.22, 430.99, 440.10(B)					
B-E20		Available Fault and Short-Circuit Current Field Marking CEC 110.16(B), 110.24(A), 620.51(D)(1), 700.5(E)					
B-E21		Means of Egress Illumination CBC 1008.2 and 1008.3 Illumination and Emergency Power					
B-E22							
B-E23							
MECHANICAL TESTS							
B-ME1		Listed hood assemblies CMC 508.2					



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B-ME2		Commercial kitchen hood ventilation CMC 511.2.2.1 Performance test					
B-ME3		Refrigeration equipment CMC 1116.0					
B-ME4		Refrigeration detection and alarm system CMC 1108.4 & CFC 605.6 Acceptance testing					
B-ME5		Refrigeration flaring system CMC 1114.3 Safety and effectiveness					
B-ME6		Steam and hot water boilers CMC 1013.0					
B-ME7		Hydronics CMC 1205.2, 1220.2.6 & 1221.3 Pressure test of steam and water piping					
B-ME8		Process piping CMC 1405.2.2 Pressure test					
B-ME9		Existing System Air Balance CMC 407.3.1 Pre-demolition Air Balance Test and Report					
B-ME10		Existing System Air Balance CMC 407.3.1 Air Balance Test and Report					
B-ME11		Ventilation system Air Balance CMC 407.3.1 & Table 4-A Areas tested and balanced					
B-ME12		Duct Leakage Test CMC 603.10.1 SMACNA HVAC Air Duct Leakage Test					
B-ME13		Airborne Infection Isolation Rooms and Protective Environment Rooms CMC 416.4 Alarm system test					
B-ME14		Airborne Infection Isolation Rooms and Protective Environment Rooms CMC 417.0 Mechanical system tested and balanced					
PLUMBING TESTS							
B-P1		Disinfection of potable water systems CPC 609.9					



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B-P2		Medical gas and vacuum NFPA 99-2018 § 5.1.12 Gas and vacuum system performance testing					
B-P3		Medical gas and vacuum NFPA 99-2018 § 5.1.12 Gas and vacuum system verification testing					
B-P4		Existing sewers and drains CPC 102.4.1, 105.3, 105.3.2, & 712.0 Tested for conformance with requirements for new work					
B-P5		Water supply system CPC 105.3, 105.3.2, & 609.4 Pressure tested prior to covering or concealment					
B-P6		Plumbing, drainage, and venting systems CPC 105.3, 105.3.2, & 712.0 Water or air tested prior to use, covering or concealment. No air test for plastic piping.					
B-P7		Building sewer CPC 105.3, 105.3.2, 712.0 & 723.0 Water or air tested prior to use, covering or concealment. No air test for plastic piping.					
B-P8		Storm drain piping CPC 1107.1 Water or air tested prior to use, covering or concealment					
B-P9		Fuel piping CPC 1213.0 Air, CO2 or nitrogen tested prior to use, covering or concealment					
B-P10		Private sewer disposal system CPC 105.0, 105.3.2, & CPC Appendix H H1001.2 Tested prior to use, covering or concealment					
B-P11		Protectively coated pipe CPC 312.5 Tested for voids, damage and imperfections					
B-P12		Defective systems CPC 105.3.1, 105.3.2, 712.0 Air test of defective drainage and plumbing systems					
B-P13		Shower receptors CPC 408.7.5					
B-P14		Backflow prevention devices and assemblies CPC 603.2 & 603.4.2 Assembly tested					
B-P15		Nonpotable water CPC 1502.0 Testing of alternate water sources and cross-connections					
B-P16		Recycled water supply systems CPC 1505.5 & 1505.13 Initial cross-connection test and system testing before initial operation					



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B-P17		On-site treated nonpotable gray water systems CPC 1506.5, 1506.12, 1502.1 Initial cross-connection test and system testing before initial operation					
B-P18							
B-P19							
B-P20							

FIRE PROTECTION AND LIFE SAFETY SYSTEMS

B-FP1		Fire Alarm CFC 901.5 & CFC 907.7 NFPA 72-2016 §14.4 Acceptance and Reacceptance Testing					
B-FP2		Fire and smoke dampers CFC 901.5 & CFC 907.8 Acceptance testing					
B-FP3		Duct Detectors CFC 901.5, NFPA 72-2016 §14.4 Differential Pressure Test					
B-FP4		Smoke control system CFC 901.5, CFC 909.18 & CBC 1705.18 and 1705A.18 Acceptance testing					
B-FP5		Fire sprinkler CFC 901.5 & NFPA 13-2016 Chapter 25 Acceptance testing – Aboveground piping					
B-FP6		Fire sprinkler CFC 901.5 & NFPA 13-2016 Chapter 25 Acceptance testing – Underground piping					
B-FP7		Standpipe system CFC 901.5 & NFPA 14-2016 Chapter 11 Acceptance testing – Aboveground piping					
B-FP8		Standpipe system CFC 901.5, CFC 905.3.1 & NFPA 14-2016 Chapter 11 Acceptance testing in buildings 4-stories or more					
B-FP9		Standpipe system CFC 901.5 & NFPA 14-2016 Chapter 11 Acceptance testing – Underground piping					
B-FP10		Private fire mains CFC 901.5 & NFPA 24-2016 § 10.10 Acceptance testing					
B-FP11		Fire pumps CFC 901.5 & NFPA 20-2016 § 14.1 & 14.2 Acceptance testing					
B-FP12		Fire protection water tank CFC 901.5 & NFPA 22-2018 Chapter 17 Acceptance testing					



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B-FP13		Wet chemical extinguishing system CFC 901.5 & NFPA 17A-2017 § 6.4 Acceptance testing					
B-FP14		Clean agent extinguishing system CFC 901.5 & NFPA 2001-2015 § 7.7 Acceptance testing					
B-FP15		CO2 extinguishing system CFC 901.5 & NFPA 12-2015 § 4.4.3 & 4.4.4 Acceptance testing					
B-FP16		Dry chemical extinguishing system CFC 901.5 & NFPA 17-2017 § 10.4 Acceptance testing					
B-FP17		Halon 1301 extinguishing system CFC 901.5 & NFPA 12A-2015 § 6.7 Acceptance testing					
B-FP18		Underground fuel storage tank CFC 5704.2.12 & NFPA 30-2018 § 21.5.1 Initial testing					
B-FP19		Underground fuel storage tank CFC 5704.2.12 & NFPA 30-2018 § 21.5.2 Tightness testing					
B-FP20		Flammable and combustible liquid fuel piping CFC 5703.6.3 Pressure testing					
B-FP21		Emergency Responder Radio Coverage CFC 510.5.3 Acceptance test procedure					
B-FP22		Testing of Elevator Shutdown 2019 C.B.C. 3005.5, NFPA 72-2016 21.4 and ASME A17.1-2013					
B-FP23		Elevator Emergency Operation 2019 CBC 3003.2 Emergency Recal and In-cart operation					
B-FP24		Elevator Emergency Standby Power 2019 CBC 3003.1 Backup Generator Engaged					
B-FP25							
OTHER TESTS							
B-OT1		Radiation Shielding Barriers CBC 1705A.1.1 and 3102C Radiation shielding barrier test					
B-OT2		Exit Signs CBC 1013.1 Location, Illumination and Physical Characteristics					
B-OT3							



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B-OT4							
B-OT5							
B-OT6							
B-OT7							
B-OT8							



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Facility #:	Facility Name:	Project #:	Sub #:				
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Index #	REQUIRED (Select with "X")	ON-SITE SPECIAL INSPECTIONS	Samples of test & inspection reports included	OPAA No. and Expiration Date	RESPONSIBLE APPROVED AGENCY AND/OR INDIVIDUAL (IDENTIFY SPECIAL INSPECTOR)	COMPLIANCE VERIFICATION BY IOR (Initial/Date)	HCAI/FDD USE (Initial/Date)

STRUCTURAL SPECIAL INSPECTIONS

Foundation

C-F1		Soils CBC 1705A.6 Soil fill					
C-F2		Foundation CBC 1705A.7 Driven deep foundations					
C-F3		Foundation CBC 1705A.8 Cast-in-place deep foundations					
C-F4		Foundation CBC 1705A.9 Helical pile foundations					
C-F5		Shoring CBC 1812A Shoring					
C-F6		Vibro Stone Columns (VSC) CBC 1813A Vibro Stone Columns					
C-F7		Prestressed soil and rock anchors CBC 1705A.3, 1811A & 1812A Installation and testing					
C-F8							
C-F9							

Concrete

C-C1		Concrete CBC 1705A.3; ACI-318 26.5.2 & 26.13 Placement of concrete					
C-C2		Concrete CBC 1705A.3; ACI-318 26.4.1.5 Admixtures					
C-C3		Concrete CBC 1705A.3; ACI-318 26.4 Mix Design					
C-C4		Concrete CBC 1705A.3; ACI-318 26.13 Reinforcing steel & prestressing steel					
C-C5		Concrete CBC 1705A.3 CIP & Post-installed anchors					
C-C6		Concrete CBC Table 1705A.3 Adhesive anchors in horizontal and upwardly inclined positions with sustained tension load					
C-C7		Concrete CBC 1705A.3; ACI-318 26.13 Specialty inserts, Stud rails, Rebar mechanical conn., Headed rebar					



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C-C8		Concrete CBC 1705A.3.3 Batch plant inspection					
C-C9		Concrete CBC 1705A.3.4; ACI-318 26.13 Prestressed concrete					
C-C10		Concrete CBC 1705A.3 & 1705A.12.5 Precast concrete fabrication & precast panels					
C-C11		Concrete CBC 1705A.3 Precast concrete erection					
C-C12		Shotcrete CBC 1705A.19 & 1908A Installation					
C-C13		Concrete CBC 1705A.3 Insulating concrete					
C-C14		Concrete CBC 1705A.3, 1705A.3.1 & 1903A.8 Welding of reinforcing bars					
C-C15		Concrete CBC 1705A.12.5 GFRC panels					
C-C16		Concrete CBC 1911A.2; ACI-503.7 Crack repair by epoxy injection					
C-C17		Concrete CBC 1911A.3, ICC AC178 Sec. 3 to 8 Strengthening by externally bonded FRP					
C-C18							
C-C19							
Masonry							
C-MA1		Masonry CBC 1705A.4 Laying and grouting					
C-MA2		Masonry CBC 2104A.1.3 Low lift grout					
C-MA3		Masonry CBC 2104A.1.3 High lift grout					
C-MA4		Masonry CBC 1705A.4 Masonry anchors					
C-MA5							



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C-MA6							
Steel							
C-S1		Steel CBC 1705A.2.5 & 1705A.12.1 Automatic end-welded studs					
C-S2		Steel CBC 1705A.2.5 & 1705A.12.1 Shop and field welding					
C-S3		Steel AWS D1.1 3 & 4 and AWS D1.8 6.1 Shop and field welding - WPS / WPQR					
C-S4		Steel CBC 1705A.2 & 1705A.12.1 High strength bolt installation					
C-S5		Steel CBC 1705A.2, 1705A.11.2 & 1705A.12.3 Cold-formed steel light frame construction					
C-S6							
C-S7							
C-S8							
Wood							
C-W1		Wood CBC 1705A.5, 1705A.5.4, 1705A.11.1 & 1705A.12.2 Glue laminated timber					
C-W2		Wood CBC 1705A.5.6, 1705A.11.1 & 1705A.12.2 Installation of timber connectors					
C-W3		Wood CBC 1705A.5, 1705A.5.2 & 1705A.5.5 Manufactured trusses					
C-W4		Wood CBC 1705A.11.1 & 1705A.12.2 Nailing, screw attachment, bolting, anchoring, field gluing operations and other fastening					
C-W5							
C-W6							
Other Structural Materials							
C-OM1		Aluminum CBC 2003.1 Testing and Inspection					



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SECTION C		NOTE: Approved agencies, individuals, and all changes to the TIO program shall be identified, evaluated by the DPOR and approved by HCAI prior to proceeding with the related work.					
Facility #:	Facility Name:	Project #:			Sub #:		
Index #	REQUIRED (Select with "X")	ON-SITE SPECIAL INSPECTIONS	Samples of test & inspection reports included	OPAA No. and Expiration Date	RESPONSIBLE APPROVED AGENCY AND/OR INDIVIDUAL (IDENTIFY SPECIAL INSPECTOR)	COMPLIANCE VERIFICATION BY IOR (Initial/Date)	HCAI/FDD USE (Initial/Date)
C-OM2	<input type="checkbox"/>	Structural Sealant Glazing CBC 2410.1.2 Structural sealants for exterior glass curtain walls					
C-OM3	<input type="checkbox"/>						
C-OM4	<input type="checkbox"/>						

Alternative Systems

C-AS1	<input type="checkbox"/>	Alternative system CBC 1705A.1.1 Construction materials and methods for alternative system					
C-AS2	<input type="checkbox"/>	Seismic Isolation System CBC 1705A.12.8 Fabrication, installation, prototype, and production testing					
C-AS3	<input type="checkbox"/>	Seismic Damping System CBC 1705A.12.8 Fabrication, installation, prototype, and production testing					
C-AS4	<input type="checkbox"/>						

Nonstructural components, supports and attachments

C-N1	<input type="checkbox"/>	Architectural components CBC 1705A.12.5 & 1705A.16 Cladding, nonbearing walls and veneer					
C-N2	<input type="checkbox"/>	Ceiling CBC 1705A.12.5 Suspended ceiling systems and their anchorage					
C-N3	<input type="checkbox"/>	Access floors CBC 1705A.12.5.1 Anchorage of access floor systems					
C-N4	<input type="checkbox"/>	Storage racks 8' or taller CBC 1705A.12.7 Anchorage					
C-N5	<input type="checkbox"/>	Plumbing, mechanical and electrical components CBC 1705A.12.6 Anchorage, bracing, and vibration isolators					
C-N6	<input type="checkbox"/>	Special Seismic Certification CBC 1705A.12.4 Special Seismic Certification label, anchorage and mounting					
C-N7	<input type="checkbox"/>						
C-N8	<input type="checkbox"/>						

ELECTRICAL INSPECTIONS



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Facility #:		Facility Name:			Project #:		Sub #:
		Select with "X" or required information:					
Index #	REQUIRED (Select with "X")	ON-SITE SPECIAL INSPECTIONS	Samples of test & inspection reports included	OPAA No. and Expiration Date	RESPONSIBLE APPROVED AGENCY AND/OR INDIVIDUAL (IDENTIFY SPECIAL INSPECTOR)	COMPLIANCE VERIFICATION BY IOR (Initial/Date)	HCAI/FDD USE (Initial/Date)
C-E1		Available Fault and Short-Circuit Current Field Marking CEC 110.16(B), 110.24(A), 620.51(D)(1), 700.5(E)					
C-E2							
C-E3							
MECHANICAL INSPECTIONS							
C-M1							
C-M2							
PLUMBING INSPECTIONS							
C-P1							
C-P2							
FIRE PROTECTION AND LIFE SAFETY SYSTEM SPECIAL INSPECTIONS							
C-FP1		Sprayed fire-resistant materials CBC 1705A.14 Spray-applied fireproofing					
C-FP2		Mastic and intumescent fire-resistant coatings CBC 1705A.15 In accordance with AWCI 12-B					
C-FP3		Penetration firestops CBC 1705A.17.1 Penetration firestop systems that are tested and listed					
C-FP4		Fire-resistant joint systems CBC 1705A.17.2 Fire-resistant joint systems that are tested and listed					
C-FP5		Smoke control systems CFC 909.18.8 & CBC 170.17 & 1705A.18 Ductwork and operation					
C-FP6		Sprinkler system piping NFPA 13-2016 § 6.5.2 Welded pipe and fittings					
C-FP7		Standpipe system piping NFPA 14-2016 § 4.4.2 Welded pipe and fittings					
C-FP8							
C-FP9							
OTHER SPECIAL INSPECTIONS							



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SECTION C		NOTE: Approved agencies, individuals, and all changes to the TIO program shall be identified, evaluated by the DPOR and approved by HCAI prior to proceeding with the related work.					
Facility #:	Facility Name:	Project #:			Sub #:		
		Select with "X" or required information:					
Index #	REQUIRED (Select with "X")	ON-SITE SPECIAL INSPECTIONS	Samples of test & inspection reports included	OPAA No. and Expiration Date	RESPONSIBLE APPROVED AGENCY AND/OR INDIVIDUAL (IDENTIFY SPECIAL INSPECTOR)	COMPLIANCE VERIFICATION BY IOR (Initial/Date)	HCAI/FDD USE (Initial/Date)
C-OT1	<input type="checkbox"/>	Exterior insulation and finish systems (EIFS). CBC 1705A.16 EIFS applications					
C-OT2	<input type="checkbox"/>	Water-resistive barrier coating CBC 1705A.16.1 ASTM E2570 Barrier coating when installed over a sheathing substrate.					
C-OT3	<input type="checkbox"/>						
C-OT4	<input type="checkbox"/>						



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SECTION D		NOTE: Approved agencies, individuals, and all changes to the TIO program shall be identified, evaluated by the DPOR and approved by HCAI prior to proceeding with the related work.			
Facility #:	Facility Name:	Project #:	Sub #:		
		Select with "X" or required information:			
Index #	REQUIRED (Select with "X")	OFF-SITE SPECIAL INSPECTIONS	Samples of test & inspection reports included	OPAA No. and Expiration Date	RESPONSIBLE APPROVED AGENCY AND/OR INDIVIDUAL (IDENTIFY SPECIAL INSPECTOR)
					COMPLIANCE VERIFICATION BY IOR (Initial/Date)
					HCAI/FDD USE (Initial/Date)

STRUCTURAL SPECIAL INSPECTIONS

Concrete					
D-C1	<input type="checkbox"/>	Concrete CBC 1705A.3; ACI-318 26.5.2 & 26.13 Placement of concrete			
D-C2	<input type="checkbox"/>	Concrete CBC 1705A.3; ACI-318 26.4.1.5 Admixtures			
D-C3	<input type="checkbox"/>	Concrete CBC 1705A.3; ACI-318 26.4 Mix Design			
D-C4	<input type="checkbox"/>	Concrete CBC 1705A.3; ACI-318 26.13 Reinforcing steel & prestressing steel			
D-C5	<input type="checkbox"/>	Concrete CBC 1705A.3 CIP & Post-installed anchors			
D-C6	<input type="checkbox"/>	Concrete CBC Table 1705A.3 Adhesive anchors in horizontal and upwardly inclined positions with sustained tension load			
D-C7	<input type="checkbox"/>	Concrete CBC 1705A.3; ACI-318 26.13 Specialty inserts, Stud rails, Rebar mechanical conn., Headed rebar			
D-C8	<input type="checkbox"/>	Concrete CBC 1705A.3.3 Batch plant inspection			
D-C9	<input type="checkbox"/>	Concrete CBC 1705A.3.4; ACI-318 26.13 Prestressed concrete			
D-C10	<input type="checkbox"/>	Concrete CBC 1705A.3 & 1705A.12.5 Precast concrete fabrication & precast panels			
D-C11	<input type="checkbox"/>	Concrete CBC 1705A.3 Insulating concrete			
D-C12	<input type="checkbox"/>	Concrete CBC 1705A.3, 1705A.3.1 & 1903A.8 Welding of reinforcing bars			
D-C13	<input type="checkbox"/>	Concrete CBC 1705A.12.5 GFRC panels			
D-C14	<input type="checkbox"/>	Concrete CBC 1911A.3, ICC AC178 Sec. 3 to 8 Strengthening by externally bonded FRP			
D-C15	<input type="checkbox"/>				
D-C16	<input type="checkbox"/>				

Masonry



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Facility #:	Facility Name:	Project #:	Sub #:				
		Select with "X" or required information:					
Index #	REQUIRED (Select with "X")	OFF-SITE SPECIAL INSPECTIONS	Samples of test & inspection reports included	OPAA No. and Expiration Date	RESPONSIBLE APPROVED AGENCY AND/OR INDIVIDUAL (IDENTIFY SPECIAL INSPECTOR)	COMPLIANCE VERIFICATION BY IOR (Initial/Date)	HCAI/FDD USE (Initial/Date)
D-MA1		Masonry CBC 1705A.4 Masonry anchors					
D-MA2							
D-MA3							
Steel							
D-S1		Steel CBC 1705A.2 & 1705A.12.1, AISC-360 & AISC-341 Steel shop fabrication					
D-S2		Steel CBC 1705A.2.5 & 1705A.12.1 Automatic end-welded studs					
D-S3		Steel CBC 1705A.2.5 & 1705A.12.1 Shop welding					
D-S4		Steel AWS D1.1 3 & 4 and AWS D1.8 6.1 Shop and field welding - WPS / WPQR					
D-S5		Steel CBC 1705A.2 & 1705A.12.1 High strength bolt installation					
D-S6		Steel CBC 1705A.2, 1705A.11.2 & 1705A.12.3 Cold-formed steel light frame construction					
D-S7							
D-S8							
Wood							
D-W1		Wood CBC 1705A.5, 1705A.5.4, 1705A.11.1 & 1705A.12.2 Glue laminated timber					
D-W2		Wood CBC 1705A.5.6, 1705A.11.1 & 1705A.12.2 Installation of timber connectors					
D-W3		Wood CBC 1705A.5, 1705A.5.2 & 1705A.5.5 Manufactured trusses					
D-W4		Wood CBC 1705A.11.1 & 1705A.12.2 Nailing, screw attachment, bolting, anchoring, field gluing operations and other fastening					
D-W5							
D-W6							



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SECTION D		NOTE: Approved agencies, individuals, and all changes to the TIO program shall be identified, evaluated by the DPOR and approved by HCAI prior to proceeding with the related work.					
Facility #:	Facility Name:	Project #:			Sub #:		
		Select with "X" or required information:					
Index #	REQUIRED (Select with "X")	OFF-SITE SPECIAL INSPECTIONS	Samples of test & inspection reports included	OPAA No. and Expiration Date	RESPONSIBLE APPROVED AGENCY AND/OR INDIVIDUAL (IDENTIFY SPECIAL INSPECTOR)	COMPLIANCE VERIFICATION BY IOR (Initial/Date)	HCAI/FDD USE (Initial/Date)
Other Structural Materials							
D-OM1		Aluminum CBC 2003.1 Inspection					
D-OM2		Structural Sealant Glazing CBC 2410.1.2 Structural sealants for exterior glass curtain walls					
D-OM3							
Alternative Systems							
D-AS1		Alternative system CBC 1705A.1.1 Construction materials and methods for alternative system					
D-AS2		Seismic Isolation System CBC 1705A.12.8 Fabrication, installation, prototype, and production testing					
D-AS3		Seismic Damping System CBC 1705A.12.8 Fabrication, installation, prototype, and production testing					
D-AS4							
Nonstructural components, supports and attachments							
D-N1		Architectural components CBC 1705A.12.5 & 1705A.16 Cladding, nonbearing walls and veneer					
D-N2		Ceiling CBC 1705A.12.5 Suspended ceiling systems and their anchorage					
D-N3		Access floors CBC 1705A.12.5.1 Anchorage of access floor systems					
D-N4		Storage racks 8' or taller CBC 1705A.12.7 Anchorage					
D-N5		Plumbing, mechanical and electrical components CBC 1705A.12.6 Anchorage, bracing, and vibration isolators					
D-N6		Special Seismic Certification CBC 1705A.12.4 Special Seismic Certification label, anchorage and mounting					
D-N7							
D-N8							



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Facility #:	Facility Name:	Project #:	Sub #:				
		Select with "X" or required information:					
Index #	REQUIRED (Select with "X")	OFF-SITE SPECIAL INSPECTIONS	Samples of test & inspection reports included	OPAA No. and Expiration Date	RESPONSIBLE APPROVED AGENCY AND/OR INDIVIDUAL (IDENTIFY SPECIAL INSPECTOR)	COMPLIANCE VERIFICATION BY IOR (Initial/Date)	HCAI/FDD USE (Initial/Date)
MECHANICAL INSPECTIONS							
D-M1							
D-M2							
PLUMBING INSPECTIONS							
D-P1							
D-P2							
FIRE PROTECTION AND LIFE SAFETY SYSTEMS SPECIAL INSPECTIONS							
D-FP1		Sprayed fire-resistant materials CBC 1705A.14 Spray-applied fireproofing					
D-FP2		Mastic and intumescent fire-resistant coatings CBC 1705A.15 In accordance with AWCI 12-B					
D-FP3		Penetration firestops CBC 1705A.17.1 Penetration firestop systems that are tested and listed					
D-FP4		Fire-resistant joint systems CBC 1705A.17.2 Fire-resistant joint systems that are tested and listed					
D-FP5		Smoke control systems CFC 909.18.8 & CBC 170.17 & 1705A.18 Ductwork and operation					
D-FP6		Sprinkler system piping NFPA 13-2016 § 6.5.2 Welded pipe and fittings					
D-FP7		Standpipe system piping NFPA 14-2016 § 4.4.2 Welded pipe and fittings					
D-FP8							
D-FP9							
OTHER SPECIAL INSPECTIONS							
D-OT1		Exterior insulation and finish systems (EIFS). CBC 1705A.16 EIFS applications					
D-OT2		Water-resistive barrier coating CBC 1705A.16.1 ASTM E2570 Barrier coating when installed over a sheathing substrate.					



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SECTION D		NOTE: Approved agencies, individuals, and all changes to the TIO program shall be identified, evaluated by the DPOR and approved by HCAI prior to proceeding with the related work.					
Facility #:	Facility Name:	Project #:			Sub #:		
		Select with "X" or required information:					
Index #	REQUIRED (Select with "X")	OFF-SITE SPECIAL INSPECTIONS	Samples of test & inspection reports included	OPAA No. and Expiration Date	RESPONSIBLE APPROVED AGENCY AND/OR INDIVIDUAL (IDENTIFY SPECIAL INSPECTOR)	COMPLIANCE VERIFICATION BY IOR (Initial/Date)	HCAI/FDD USE (Initial/Date)
D-OT3							
D-OT4							



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SECTION E		REQUIRED COMPLIANCE FORMS			
Facility #:	Facility Name:	Project #:	Sub #:		
FORM #	REQUIRED (Select)	DOCUMENT NAME	RESPONSIBLE DESIGNER OR INSTALLING CONTRACTOR	COMPLIANCE VERIFICATION BY IOR (Initial/Date)	HCAI/FDD USE (Initial/Date)

CALIFORNIA ENERGY CODE

NON-RESIDENTIAL CERTIFICATE OF INSTALLATION (NRCI)

NRCI-ENV-01-E		ENVELOPE			
NRCI-MCH-01-E		MECHANICAL			
NRCI-PLB-01-E		PLUMBING			
NRCI-LTI-01-E		INDOOR LIGHTING <i>(conditioned, processed spaces)</i>			
NRCI-LTI-02-E		ENERGY MANAGEMENT CONTROL SYSTEM OR LIGHTING CONTROL SYSTEM <i>(conditioned, processed spaces)</i>			
NRCI-LTI-04-E		TWO INTERLOCKED LIGHTING SYSTEMS <i>(conditioned, processed spaces)</i>			



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SECTION E		REQUIRED COMPLIANCE FORMS			
Facility #:	Facility Name:		Project #:	Sub #:	
FORM #	REQUIRED (Select)	DOCUMENT NAME	RESPONSIBLE DESIGNER OR INSTALLING CONTRACTOR	COMPLIANCE VERIFICATION BY IOR (Initial/Date)	HCAI/FDD USE (Initial/Date)
NRCI-L-TI-05-E		ENERGY MANAGEMENT CONTROL SYSTEM OR LIGHTING CONTROL SYSTEM <i>(conditioned, processed spaces)</i>			
NRCI-L-TI-06-E		VIDEO CONFERENCE STUDIO LIGHTING <i>(conditioned, processed spaces)</i>			
NRCI-L-TI-01-E		INDOOR LIGHTING <i>(conditioned, processed spaces)</i>			
NRCI-L-TI-02-E		ENERGY MANAGEMENT CONTROL SYSTEM OR LIGHTING CONTROL SYSTEM <i>(conditioned, processed spaces)</i>			
NRCI-L-TI-05-E		ENERGY MANAGEMENT CONTROL SYSTEM OR LIGHTING CONTROL SYSTEM <i>(conditioned, processed spaces)</i>			
NRCI-L-TO-01-E		OUTDOOR LIGHTING			



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SECTION E		REQUIRED COMPLIANCE FORMS			
Facility #:	Facility Name:		Project #:	Sub #:	
FORM #	REQUIRED (Select)	DOCUMENT NAME	RESPONSIBLE DESIGNER OR INSTALLING CONTRACTOR	COMPLIANCE VERIFICATION BY IOR (Initial/Date)	HCAI/FDD USE (Initial/Date)
NRCI-LTO-02-E		ENERGY MANAGEMENT CONTROL SYSTEM OR LIGHTING CONTROL SYSTEM <i>(outdoor lighting)</i>			
NRCI-ELC-01-E		ELECTRICAL POWER DISTRIBUTION			
NRCI-PRC-01-E		COVERED PROCESSES <i>(commercial refrigeration)</i>			
NRCI-PRC-01-E		COVERED PROCESSES <i>(parking garage)</i>			
NRCI-PRC-01-E		COVERED PROCESSES <i>(process boilers greater than 2.5 MM Btu/h)</i>			
NRCI-LTS-01-E		SIGN LIGHTING <i>(indoor and outdoor)</i>			
NON-RESIDENTIAL CERTIFICATE OF ACCEPTANCE (NRCA)					



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SECTION E			REQUIRED COMPLIANCE FORMS			
Facility #:		Facility Name:		Project #:		Sub #:
FORM #	REQUIRED (Select)	DOCUMENT NAME	RESPONSIBLE DESIGNER OR INSTALLING CONTRACTOR	COMPLIANCE VERIFICATION BY IOR (Initial/Date)	HCAI/FDD USE (Initial/Date)	
NRCA-ENV-02-F		FENESTRATION ACCEPTANCE				



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355 South Grand Avenue,
Suite 1900
Los Angeles, CA 90071



Testing, Inspection, and Observation Program

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SECTION F		CONSTRUCTION VERIFICATION												
Facility #:		Facility Name:						Project #:				Sub #:		
VERIFIED CONSTRUCTION INSPECTION AND OBSERVATION REPORTING														
REFERENCE NUMBER	PROJECT MILESTONE OR INTERVAL	VERIFIED COMPLIANCE REPORT REQUIRED AS INDICATED (Form OSH-FD-123) (See "PERSONAL KNOWLEDGE" as defined in California Administrative Code, Section 7-151)											FOR HCAI USE ONLY	
		GEOR	AOR	SEOR	MEOR	EEOR	CONT	IOR	SP INSP	TEST LAB			HCAI FDD	
	Clear all plan review Outstanding Items List (OIL) Items													
ABBREVIATIONS:		GEOR - Geotechnical Engineer of Record			AOR - Architect of Record				SEOR - Structural Engineer of Record					
		MEOR - Mechanical Engineer of Record			EEOR - Electrical Engineer of Record				CONT O/B - Contractor or Owner/Builder					
		SP. INSP - Special Inspector			IOR - Inspector of Record				Test Lab – Engr. For the approved agency					



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SECTION G	Inspector of Record (IOR) Responsibility		
Facility #:	Facility Name:	Project #:	Sub #:
This Section only required when more than one IOR will share responsibility on the project.			
<p>INSPECTOR OF RECORD RESPONSIBILITIES. Per CAC 7-145: "The Inspector shall have personal knowledge, obtained by continuous inspection of all work of construction in all stages of its progress to ensure that the work is in accordance with the approved construction documents." This includes applicable Codes, Referenced Standards, Listings and Manufacturer's Installation Instructions applicable to the work shown in the approved construction documents. If a project has more than one inspector of record, the distribution of responsibilities for the work shall be clearly identified for each IOR per CAC 7-141(f). One IOR shall be designated as the 'lead' IOR per CAC 7-144(b). One IOR shall be assigned responsibility for "all other work" to make sure responsibility for the inspection of every part of the work is assigned.</p>			
INSPECTOR OF RECORD CAC 7-141, 7-145 & 7-151	SCOPE OF INSPECTION		PERFORMED OFF-SITE
	All other work		



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SECTION H	HCAI REVIEWED		
Facility #:	Facility Name:	Project #:	Sub #:
<p>NOTE: When a structural engineer has been delegated responsibility for a portion of this project his or her signature is also required. For testing, Inspection and Observation Program Instructions visit: https://HCAI.ca.gov/construction-finance/resources/forms-applications-reminder-lists/#TIO</p>			
Submitted By:			
<p>I have reviewed the approved construction documents for this project and all tests and special inspections required by Code are marked as "required" on this form.</p>			
Architect/Engineer of Record (Print Name)		Architect/Engineer of Record (Signature)	Date
Structural Engineer of Record (Print Name)		Structural Engineer of Record (Signature)	Date
FOR HCAI USE			
Reviewed by HCAI Plan Review Staff:			
		<input type="checkbox"/> REVIEWED	<input type="checkbox"/> REVIEWED WITH COMMENTS
Signature _____		Date _____	
<p>Note: HCAI plan review staff must provide verification that the TIO program has been "Reviewed" prior to plan approval to confirm the applicability of the tests and inspections identified in the TIO program for work scope, building systems, and the construction materials shown in the design drawings. Field staff will issue subsequent "TIO Program Approval".</p>			



Testing, Inspection, and Observation Program

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SECTION I	TIO PROGRAM APPROVAL		
Facility #:	Facility Name:	Project #:	Sub #:
<p>NOTE: For testing, Inspection and Observation Program Instructions visit: www.HCAI.ca.gov</p> <p>This program is prepared and submitted for an OSHPD 1 project. OSHPD 1 projects include all construction and remodel projects for: general acute care hospitals, acute psychiatric hospitals, and general acute care hospitals providing only acute medical rehabilitation center services.</p> <p>Samples of Test and Inspection Reports are: (NOT required for test performed by laboratories approved through OPAA Program)</p> <p><i>All test and special inspection reports shall be submitted to the IOR, hospital owner, architect in responsible charge, and the structural engineer by the testing agency per CAC 7-149(a).</i></p> <p><i>Verified compliance reports shall be signed by the individual who performed the special inspection(s) as outlined in CAC 7-151 (c). All reports shall clearly state whether the tests or special inspections were performed in accordance with the HCAI stamped approved documents and whether the results indicate compliance with those documents per CAC 7-149 (a). All IORs performing special inspections shall hold the appropriate certification and equipment and shall obtain approval from the design professional of record and HCAI prior to perform such work.</i></p> <p><i>NOTE: This Test Inspection and Observation Report shall be approved by HCAI field personnel prior to start of construction.</i></p>			
_____ Architect/Engineer of Record (Print Name)	_____ Professional License #	_____ Architect/Engineer of Record (Signature)	_____ Date
FOR HCAI FIELD STAFF USE			
TIO Program Approved by HCAI Field Staff:		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <input type="checkbox"/> APPROVED </div> <div style="text-align: center;"> <input type="checkbox"/> APPROVED WITH COMMENTS </div> </div>	
_____ Signature		_____ Date	
<p>Note: HCAI plan review staff must provide verification that the TIO program has been "Reviewed" prior to plan approval to confirm the applicability of the tests and inspections identified in the TIO program for work scope, building systems, and the construction materials shown in the design drawings. HCAI Field staff will issue subsequent "TIO Program Approval".</p> <p>If "Approved with Comments" is checked the following comments shall be resolved by the designer prior to proceeding with the related construction:</p>			



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Testing, Inspection, and Observation Program 2019 California Building Standards Code - OSHPD 1

SECTION J		SUMMARY OF CHANGES TO THE TIO PROGRAM			
		NOTE: Note all changes shall be approved as amended construction documents per CAC 7-153, or "concurred with" as non-material alterations per CAC 7-153(b), by HCAI prior to proceeding with the related work.			
Facility #:	Facility Name:			Project #:	Sub #:
TESTING, INSPECTION, OBSERVATION PROGRAM NON-MATERIALLY ALTER CHANGES BY THE ARCHITECT OF RECORD / ENGINEER OF RECORD IN RESPONSIBLE CHARGE					HCAI FDD CONCURRENCE (Initial/date)
A signature in column F and/or G indicates the indicated DPOR has verified the acceptance statements in Section G of this Form are applicable to any approved agencies/testing laboratories and special inspectors added.					
REVISION NUMBER	SYNOPSIS OF CHANGE	Architect/Engineer of Record Signature (Initial/date)	Structural Engineer of Record Signature (Initial/date)	DATE of Effective Change	