

**X.**

**SCHEDULE OF SPECIAL INSPECTIONS**

MATERIAL/ACTIVITY	TYPE OF INSPECTION	APPLICABLE TO THIS PROJECT				
		Y/ N	C/P	EXTENT/REFERENCE	AGENT	COMPLETED
<b>GENERAL</b>						
Pre-construction conference	Meeting with parties listed in Section 6 of DOB SIPM to discuss Special Inspection procedures		P	Scheduled by DOB with the Contractor prior to commencement of work		
<b>EARTHWORK</b>						
Site preparation (building)	Field testing and inspection		P	Field Review; IBC 1705.6		
Fill material (building)	Review submittals, field testing and inspection		P	Field Review; IBC 1705.6		
Fill compaction (building)	In-place density tests, lift thickness		C	Field Review; IBC 1705.6		
Excavation	Field inspection and verification of proper depth		P	Field Review; IBC 1705.6		
Foundation sub-grade	Field inspection of foundation subgrade prior to placement of concrete		P	Field Review; IBC 1705.6		
<b>DEEP FOUNDATION ELEMENTS</b>						
Materials	Review product, sizes, and lengths		C	Submittal and Field Review; IBC 1705.7, 1705.8, 1705.9		
Test piles	Monitor driving of test piles		C	Field Review; IBC 1705.8, .9 or .10		
Installation	Monitor drilling, placement, plumb, driving of piles, including recording blows per foot, cut off, and tip elevation		C	Field Review; IBC 1705.2, 1705.3, 1705.7		
Load test	Monitor pile load test		C	Field Review; IBC 1705.8, .9 or .10		
<b>CONCRETE</b>						
Materials	Review product supplied versus certificates of compliance and mix design		P	Submittal & Field Review; IBC 1705.3; ACI 318:Ch. 4 and 5; IBC 1904.2, 1910.2, 1903.3		
Installation of reinforcing steel, including Pre-stressed tendons and anchor bolts as well as welding	Field inspection of placement		P	Submittal and Field Review; ACI 318:3.5, 3.5.2, 3.8.6 & Ch. 7 8.1.3 and 21.2.8; AWS D1.4; IBC 1705.3, 1908.5, 1909.1, 1910.4		
Formwork installation	Field inspection		P	Field Review; ACI 318: 6.1.1; IBC 1705.3		
Concreting operations and placement	Field inspection of placement/sampling		C	Field Review; ACI 318: 5.6, 5.8, 5.9-10; ASTM C 172, C 31; IBC 1705.3, 1910.6, 1910.7, 1910.8, 1910.10		
Concrete curing	Field inspection of curing process		P	Field Review; ACI 318: 5.11-13; IBC 1705.3, 1910.9		
Concrete strength	Evaluation of concrete strength		P	Laboratory Testing; ACI 318: 6.2; IBC 1705.3		

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<b>PRECAST CONCRETE</b>						
Verify fabrication/quality control procedures	In-plant inspection of fabrication/quality control procedures**		P	Submittal or Field Review; IBC 1705.3		
Erection and installation	Review submittals and as-built assemblies; Field inspection of in-place precast		P	Submittal and Field Review; ACI 318; Ch. 16; IBC Table 1705.3		
<b>MASONRY (Level__ ; Building Risk Category__) TYPICAL FOR LEVEL B AND RISK CATEGORY I,II,III</b>						
Materials	Review of products supplied versus certificate of compliance and material submitted		P	Submittal & Field Review; ACI 530/ASCE 5; ACI 530.1/ASCE 6; IBC 1705.4, 1708		
Strength	Testing/review of strength		C	Submittal & Field Review; ACI 530/ASCE 5; ACI 530.1/ASCE 6; IBC 1705.4, 2105.2.2, 2105.3		
Mortar and Grout	Inspection of proportioning and mixing. Placement of mortar only.		P	Field Review; IBC 1705.4; ACI 530/ASCE 5; ACI 530.1/ASCE 6		
Grout placement, including pre-stressing grout	Verification to ensure compliance		C	Field Review; IBC 1705.4; ACI 530/ASCE 5; ACI 530.1/ASCE 6		
Grout space	Verification to ensure compliance		P	Field Review; IBC 1705.4; ACI 530/ASCE 5; ACI 530.1/ASCE 6; TMS 602		
Mortar, grout, and prism specimens	Observe Preparation		C	Field Review; IBC 1704.5, ACI 530.1; ASCE 6		
Reinforcement, pre-stressing tendons, and connections	Inspect condition, size, location, and spacing		P	Field Review; IBC 1704.5; ACI 530/ASCE 5; ACI 530.1/ASCE 6		
Welding of reinforcing bars	Inspection and testing of welds		C	Field Review; IBC 1705.4; ACI 530/ASCE 5; ACI 530.1/ASCE 6		
Pre-stressing force	Verify application and measurement		C	Field Review; IBC 1705.4; ACI 530/ASCE 5; ACI 530.1/ASCE 6		
Protection	Inspect procedures for protection during cold and hot weather		P	Field Review; IBC 1705.4; ACI 530/ASCE 5; ACI 530.1/ASCE 6		
Anchorage	Inspection of anchorages		P	Field Review; ACI 530.1/ASCE 6, ASCE 6; IBC 1705.4; ACI 530/ASCE 5		
Masonry installation	Inspection of placement of masonry and joints (Periodic after the first 5000 sq.ft)		C	Field Review; ACI 530/ASCE 5; ACI 530.1/ASCE 6; IBC 1705.4		
Grouting of pre-stressed tendons	Field inspection		C	Field Review; ACI 318: 18.18.4; IBC 1705.3		
Application of forces for pre-stressed concrete	Field inspection		C	Field Review; ACI 318: 18.20; IBC 1705.3		

STRUCTURAL STEEL		Y/N C/P				
Verify fabrication/quality control procedures	In-plant inspection of fabrication/quality control procedures or submit Certificate of Compliance		P	IBC 1704.2.5, IBC 1704.2.5.1, 1704.2.5.2, 1705.2		
Bolts, nuts, and washers – materials	Material identification markings. Review of Certificate of Compliance		P	Submittal & Field Review; IBC 1705.2.1; IBC 1705.2.2; IBC 1706; ASTM; AISC 360, Section A3.3		
Bolts, nuts, washers – installation	Inspection of in-place high-strength bolts, snug-tight joints, pre-tensioned and bearing type, and slip critical connections		C	Submittal & Field Review; IBC 1705.2.1, 1705.2.2, AISC 360 Section M2.5		
Structural steel – materials	Material identification markings and review of Certificate of Compliance		P	Submittal & Field Review; IBC 705.2.1, 1705.2.2, 1706; ASTM A6, A568		
Structural steel details – installation	Inspection of member locations, structural details for bracing, connections, stiffening		P	Submittal & Field Review; IBC 1705.2.1, 1705.2.2, AISC 360		
Weld filler materials and welder certification	Review of identification markings, Certificate of Compliance, and welder certifications		P	Submittal & Field Review; ASTM AISC 360 A3.5		
Welds	Inspection and testing of welds		C	Field Review; IBC 1705.2.2.1; AWS D1.1, D1.3		
Cold-formed metal deck – materials	Review of identification marking manufacturer's certified test results		P	Submittal and Field Review; IBC 1705.2.2; ASTM		
Cold-formed metal deck – installation	Review laps and welds		P	Submittal and Field Review; IBC 1705.2.2, AWS D1.3		
Cold-formed light frame construction – welds	Review welding operation		P	IBC 1705.10, 1705.10.2, 1705.10.3		
Cold form light frame construction windresistance – screws	Review screw attachment bolting, anchoring holddowns, bracing, diaphragms, struts		P	Field Review; IBC 1705.10, 1705.10.2, 1705.10.3		
Cold-formed steel trusses spanning 60' or greater	Inspection of temporary and permanent restraints/bracing		C	Field review IBC 1705.2.2.2		
WOOD						
Verify fabrication/quality control procedures	In-plant inspection of fabrication/quality control procedures** or submit Certificate of Compliance		P	Submittal or Field Review; IBC 1704.2.5, 1705.5, 1705.5.2		
Metal plate connected wood/metal trusses spanning 60' or more	Review approved submittal and installation of restraint/bracing		P	Field Review; IBC 1704.2.5, 1705.5, 1705.2		
Joist Hangers – Materials/Installation	Review manufacturer's material and test standards		P	Field Review; IBC 1711, ASTM D 1761		
High-Load Diaphragms – Installation	Review submittal and as-built assemblies; inspection of sheathing, framing size, nail and staple diameter and length, number of fastener lines, and fastener spacing.		C	IBC 1705.5, 1705.5.1		

Wood Shear Walls–installation	Review nailing, bolting, anchoring, fastening, Diaphragms, struts, braces, and hold downs when fasteners are $\leq$ 4" on center.		P	Field Review; IBC1705.10.1		
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MAIN WIND FORCE RESISTING SYSTEM		Y/N	C/P			
Wind requirements	Review of the system components and installation for wood construction, cold-formed steel light frame construction, components, and cladding		P	Submittal and Field Review; IBC 1609.1.2, 1704.5.2, 1705.10, 1705, 1705.4, 1705.4.1, 1705.4.2, 1710		
SEISMIC FORCE RESISTING SYSTEMS						
Seismic requirements	Review of the designated seismic systems and seismic force resistance systems		C	Submittal and Field Review; IBC 1613, 1704.5.1, 1705.11, 1705.12; ASCE 7		
SMOKE CONTROL						
Special Inspection of smoke control systems	Leakage testing and recording of device location, pressure difference testing, flow measurement and detection, and control verification		P	Field Review; IBC 1705.17, 1705.17.1, 1705.17.2		
SPRAYED FIRE RESISTIVE MATERIAL, FIRE RESISTANT PENETRATIONS; JOINTS, MASTIC AND INTERMESCENT FIRE RESISTANT COATING						
Structural member surface conditions	Field Review of surface conditions prior to application		P	AWCI 12-B; IBC 1705.13, 1705.13.2		
Application/thickness/density/bond strength	Field review of application operations, thickness, and density		P	ASTM E605, AWCI 12-B; IBC 1705.13.2; 1705.13.1, 1705.13.3, 1705.13.4; IBC 1705.13.5, 1705.13.6		
Mastic & Intumescent Fire Resistant Coating	Field review of application operations and thickness		P	AWCI 12-B; IBC 1705.14		
EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)						
Application	Field Review of application/installation		P	ASTM E2570, IBC 1705.15		
SPECIAL CASES						
Alternative Materials and Systems	As requested by Chief Building Official, review system and installation		C/ P	IBC 1705.1.1		
INSPECTION AGENTS	FIRM	ADDRESS			TELEPHONE	
Special Inspections Engineer of Record						
Materials and Testing Laboratory						
Special Inspections Engineer of Record Smoke Control System						
Additional Agents						

Note: The Qualifications of the Special Inspections Engineer of Record and Testing Laboratories are subject to the Approval of the Chief Building Official. The Schedule of Special Inspections includes certain Architectural, Mechanical, Electric components, Storage Racks and Isolation Systems specified in Section 1705.11 of the Construction Code.