

STATEMENT OF SPECIAL INSPECTION

SITE ADDRESS	APN	BP#
PROJECT DESCRIPTION:		

Notation Used in Table:

Column headers:

- C Indicates continuous inspection is required.
- P Indicates periodic inspections are required. The notes and/or contract documents should clarify.

Box entries:

- X Is placed in the appropriate column to denote either "C" continuous or "P" periodic inspections.
- Denotes an activity that is either a one-time activity or one whose frequency is defined in some other manner.

Additional detail regarding inspections and tests are provided in the project specifications or notes on the drawings.

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	OSSC REFERENCE
INSPECTION OF FABRICATORS				
1. <input type="checkbox"/> Inspect fabricator's fabrication and quality control procedures.	---	---		1704.2.5

INSPECTION OF STEEL (based on Table 1705.2)				
1. Material verification of high-strength bolts, nuts and washers.				
<input type="checkbox"/> Identification marking to conform to ASTM stds specified in the approved construction documents.	---	X	AISC 360, Section A3.3 and applicable ASTM material standards	
<input type="checkbox"/> Inspect fabricator's fabrication and quality control procedures.	---	X	---	---
2. Inspection of high-strength bolting:				
<input type="checkbox"/> Snug-tight joints.	---	X	AISC 360, Section M2.5	
<input type="checkbox"/> Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist-off bolt or direct tension indicator methods of installation.	---	X		
<input type="checkbox"/> Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation.	X	---		
3. Material verification of structural steel.				
<input type="checkbox"/> For structural steel, identification markings to conform to AISC 360.	---	X	AISC 360, Section M2.5	
<input type="checkbox"/> For other steel, identification markings to conform to ASTM standards specified in the approved construction documents.	---	X	Applicable ASTM material standards	
<input type="checkbox"/> Manufacturer's certified test reports.	---	X		

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	OSSC REFERENCE
4. Material verification of cold-formed steel deck.				
<input type="checkbox"/> Manufacturer's certificate of compliance required.	---	X	---	---
5. Material verification of weld filler materials:				
<input type="checkbox"/> Identification marking to conform to AWS specification in the approved construction documents.	---	X	AISC 360, Section A3.5 and applicable AWS A5 documents	---
<input type="checkbox"/> Manufacturer's certificate of compliance required.	---	X	---	---
6. Inspection of welding:				
a. Structural steel and cold-formed steel deck:				
<input type="checkbox"/> Complete and partial joint penetration groove welds.	X	---	AWS D1.1	
<input type="checkbox"/> Multipass fillet welds.	X	---		
<input type="checkbox"/> Single-pass fillet welds > 5/16"	X	---		
<input type="checkbox"/> Plug and slot welds.	X	---		
<input type="checkbox"/> Single-pass fillet welds <= 5/16"	---	X		
<input type="checkbox"/> Floor and roof deck welds.	---	X	AWS D1.3	
b. Reinforcing steel:				
<input type="checkbox"/> Verification of weldability of reinforcing steel other than ASTM A 706.	---	X	AWS D1.4 ACI 318: Section 3.5.2	---
<input type="checkbox"/> Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement.	X	---		
<input type="checkbox"/> Shear reinforcement.	X	---		
<input type="checkbox"/> Other reinforcing steel.	---	X		
7. Inspection of steel frame joints details for compliance:				
<input type="checkbox"/> Details such as bracing and stiffening.	---	X	---	
<input type="checkbox"/> Member locations.	---	X		
<input type="checkbox"/> Application of joint details at each connection.	---	X		

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	OSSC REFERENCE
INSPECTION OF WELDING				
1. <input type="checkbox"/> Welded studs when used for structural diaphragms.	---	X	---	1704.3
2. <input type="checkbox"/> Welding of cold-formed steel framing members.	---	X		
3. <input type="checkbox"/> Welding of stairs and railing systems.	---	X		

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	OSSC REFERENCE
INSPECTION OF CONCRETE (based on Table 1705.3)				
1. <input type="checkbox"/> Inspection of reinforcing steel, including prestressing tendons and placement.	---	X	ACI 318: 3.5, 7.1-7.7	1910.4
2. <input type="checkbox"/> Inspection of reinforcing steel welding in accordance with Table 1705.2 Item 6b.	---	---	AWS D1.4 ACI 318: 3.5.2	---
3. <input type="checkbox"/> Inspection of bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased or where strength design is used.	X	---	ACI 318: 8.1.3, 21.2.8	1908.5, 1909.1
4. <input type="checkbox"/> Inspection of anchors installed in hardened concrete.	---	X	ACI 318:	1912.1
5. <input type="checkbox"/> Verifying use of required design mix.	---	X	ACI 318:	1904.2, 1910.2, 1910.3
6. <input type="checkbox"/> At time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests and determine the temperature of the concrete.	X	---	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10
7. <input type="checkbox"/> Inspection of concrete and shotcrete placement for proper application techniques.	X	---	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8
8. <input type="checkbox"/> Inspection for maintenance of specified curing temperature and techniques.	---	X	ACI 318: 5.11-5.13	1910.9
9. Inspection of prestressed concrete:				
<input type="checkbox"/> Application of prestressing forces.	X	---	ACI 318: 18.20	---
<input type="checkbox"/> Grouting of bonded prestressing tendons in the seismic force-resisting system.	X	---	ACI 318: 18.18.4	
10. <input type="checkbox"/> Erection of precast concrete members.	---	X	ACI 318: Ch. 16	---
11. <input type="checkbox"/> Verification of in-situ concrete strength, prior to stressing of tendons in posttensioned concrete and prior to removal of shores and forms from beams and structural slabs.	---	X	ACI 318: 6.2	---
12. <input type="checkbox"/> Inspect formwork for shape, location, and dimensions of the concrete member being formed.	---	X	ACI 318: 6.6.1	---
13. <input type="checkbox"/> Bolts Installed in Existing Masonry or Concrete				
<input type="checkbox"/> Direct tension testing of existing anchors.	---	X		
<input type="checkbox"/> Direct tension testing of new bolts.	---	X		
<input type="checkbox"/> Torque testing of new bolts.	---	X		
<input type="checkbox"/> Prequalification test for bolts and other types of anchors.	---	X		
14. <input type="checkbox"/> Other:				

REQUIRED VERIFICATION AND INSPECTION OF SOIL (based on Table 1705.6)					
1. <input type="checkbox"/>	Verify materials below footings are adequate to achieve the desired bearing capacity.	---	X	---	
2. <input type="checkbox"/>	Verify excavations are extended to proper depth and have reached proper material.	---	X		
3. <input type="checkbox"/>	Perform classification and testing of compacted fill materials.	---	X		
4. <input type="checkbox"/>	Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X	---		
5. <input type="checkbox"/>	Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	---	X		
REQUIRED VERIFICATION AND INSPECTION OF DEEP DRIVEN FOUNDATION ELEMENTS (based on Table 1705.7)					
1. <input type="checkbox"/>	Verify element materials, sizes and lengths comply with the requirements.	X	---	---	
2. <input type="checkbox"/>	Determine capacities of test elements and conduct additional load tests, as required.	X	---		
3. <input type="checkbox"/>	Observe driving operations and maintain complete and accurate records for each element.	X	---		
4. <input type="checkbox"/>	Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element.	X	---		
5. <input type="checkbox"/>	For steel elements, perform additional inspections in accordance with Section 1705.2.	---	---		
6. <input type="checkbox"/>	For concrete elements and concrete filled elements, perform additional inspections in accordance with Section 1705.3.	---	---		
7. <input type="checkbox"/>	For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.	---	---	---	Table 1704.8
REQUIRED VERIFICATION AND INSPECTION OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS					
1. <input type="checkbox"/>	Observe drilling operations and maintain complete and accurate records for each element.	X	---	---	Table 1705.8
2. <input type="checkbox"/>	Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable), and adequate end-bearing strata capacity. Record concrete or grout volumes.	X	---		
3. <input type="checkbox"/>	For concrete elements, perform additional inspections in accordance with Section 1705.3.	---	---		
HELICAL PILE FOUNDATIONS					
1. <input type="checkbox"/>	Record installation equipment used, pile dimensions, tip elevations, final depth, final installation torque.	X	---	---	1705.9
SPECIAL INSPECTION FOR WIND REQUIREMENTS					
6.	Wind Resistance (NOT REQ in Medford since Vasd does not exceed 110 mph)				

SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE				
1. <input type="checkbox"/> Special inspection for welding in accordance with the quality assurance plan requirements of AISC 341.	X	---		1705.11.1
2. Structural Wood				
<input type="checkbox"/> Inspect field gluing operations of elements of the seismic-force-resisting system.	X	---		1705.11.2
<input type="checkbox"/> Inspect nailing, bolting, anchoring, and other fastening of components within the seismic-force-resisting system, including wood shear walls, wood diaphragms, drag struts, braces, shear panels and hold-downs.	---	X		
3. Cold-Formed steel light-frame construction				
<input type="checkbox"/> Welding of elements of the seismic-force-resisting system.	---	X		1705.11.3
<input type="checkbox"/> Inspection of screw attachments, bolting, anchoring, and other fastening of components within the seismic-force-resisting system including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs.	---	X		
4. Storage racks and access floors				
Anchorage of storage racks 8 feet or greater in height and access floors.	---	X		1705.11.7
5. Architectural components				
<input type="checkbox"/> Inspect erection and fastening of exterior cladding weighing more than 5 psf and higher than 30 feet above grade or walking surface.	---	X	---	1705.11.5
<input type="checkbox"/> Inspect erection and fastening of veneer weighing more than 5 psf and higher than 30 feet above grade or walking surface.	---	X		
<input type="checkbox"/> Inspect erection and fastening of all exterior non-bearing walls higher than 30 feet above grade or walking surface.	---	X		
<input type="checkbox"/> Inspect erection and fastening of all interior non-bearing walls weighing more than 15 psf and higher than 30 feet above grade or walking surface.	---	X		
6. Mechanical and Electrical Components				
<input type="checkbox"/> Inspect anchorage of electrical equipment for emergency or stand-by power systems.	---	X	---	1705.11.6
<input type="checkbox"/> Inspect anchorage of non-emergency electrical equipment.	---	X		
<input type="checkbox"/> Inspect installation of piping systems and associated mechanical units carrying flammable, combustible, or highly toxic contents.	---	X		
<input type="checkbox"/> Inspect installation of HVAC ductwork that contains hazardous materials.	---	X		
<input type="checkbox"/> Inspect installation of vibration isolation systems where required by Section 1707.7.	---	X		

7. <input type="checkbox"/> Verify that the equipment label and anchorage or mounting conforms to the certificate of compliance when mechanical and electrical equipment must be seismically qualified.	---	---	---	1705.11.4
8. <input type="checkbox"/> Seismic isolation system: Inspection of isolation system per ASCE 7 – Section 17.2.4.8	---	X	---	1705.11.8
9. <input type="checkbox"/> Obtain mill certificates for reinforcing steel, verify compliance with approved construction documents, and verify steel supplied corresponds to certificate.	---	---	---	1705.12.1
10. <input type="checkbox"/> Structural Steel: Invoke the QAP Quality Assurance requirements in AISC 341.	---	---	---	175.12.2
11. <input type="checkbox"/> Obtain certificate that equipment has been seismically qualified.	---	---	---	1705.12.3
12. <input type="checkbox"/> Obtain system tests as required by ASCE 7 Section 17.8.	---	---	---	1705.12.4
SPRAYED FIRE-RESISTANT MATERIALS				
Physical and visual tests				
1. Condition of substrates.				
<input type="checkbox"/> Inspect surface for accordance with the approved fire-resistance design and the approved manufacturer's written instructions.	---	---	---	1705.13
<input type="checkbox"/> Verify minimum ambient temperature before and after application.	---	X		
<input type="checkbox"/> Verify ventilation of area during and after application.	---	X		
2. <input type="checkbox"/> Measure average thickness per ASTM E605 and Section 1705.13.4.	---	---		
3. <input type="checkbox"/> Verify density of material for conformance with the approved fire-resistant design and ASTM E605. (Ref. Section 1705.13.5)	---	---		
4. <input type="checkbox"/> Test cohesive/adhesive bond strength per Section 1705.13.6.	---	---		
5. <input type="checkbox"/> Condition of finished application.				
MISCELLANEOUS				
1. Mastic and Intumescent Fire-Resistant Coating.	---	---	---	1705.14
2. Exterior Insulation and Finish Systems (EIFS). Water-resistive barrier coating when installed over a sheathing substrate.	---	---	---	1705.15
3. Fire-resistant Penetrations and Joints	---	---	---	1705.16
4. Smoke Control System	---	---	---	1705.17
5. Seismic Resistance				
<input type="checkbox"/> Suspended ceiling systems and their anchorage.	---	---	---	1704.3.2 & 1705.11

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	OSSC REFERENCE
OTHER				
1. <input type="checkbox"/>				
2. <input type="checkbox"/>				
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