# SCHEDULE OF SPECIAL INSPECTION

Per IBC Section 1704 of the 2018 International Building Code and Section C408 of the 2018 IECC the following items require Special Inspections. **Special inspectors must be employed by the Owner or registered design professional in responsible charge acting as the owner's agent.**

| **PROJECT ADDRESS** | | **PERMIT NO.** | |
|---|---|---|---|

| | | **APPLICABLE TO THIS PROJECT** | | |
|---|---|---|---|---|
| **MATERIAL / ACTIVITY** | **SERVICE** | **Y/N** | **EXTENT** | **AGENT*** |
| **1704.2.5 Inspection of Fabricators** | | | | |
| Verify fabrication/quality control procedures | In-plant review (3) | | Periodic | |
| **1705.1.1 Special Cases** (work unusual in nature, including but not limited to alternative materials and systems, unusual design applications, materials and systems with special manufacturer's requirements) | Submittal review, shop (3) and/or field inspection | | | |
| **1705.2 Steel Construction** | | | | |
| 1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, chapter N, paragraph 3.2 for compliance with construction documents) | Submittal Review | | Each submittal | |
| 2. Material verification of structural steel | Shop (3) and field inspection | | Periodic | |
| 3. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors) | Field inspection | | Continuous | |
| 4. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents | Field inspection | | Periodic | |
| 5. Structural steel welding: | | | | |
| a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1) | Shop (3) and field inspection | | Observe or Perform as noted (4) | |
| b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1) | Shop (3) and field inspection | | Observe (4) | |
| c. Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-3) | Shop (3) and field inspection | | Observe or Perform as noted (4) | |
| d. Nondestructive testing (NDT) of welded joints: *see Commentary* | | | | |
| 1) Complete penetration groove welds 5/16" or greater in *risk category* III or IV | Shop (3) or field ultrasonic testing - 100% | | Periodic | |
| 2) Complete penetration groove welds 5/16" or greater in *risk category* II | Shop (3) or field ultrasonic testing - 10% of welds minimum | | Periodic | |
| 3) Thermally cut surfaces of access holes when material t > 2" | Shop (3) or field magnetic Partical or Penetrant testing | | Periodic | |
| 4) Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1 | Shop (3) or field radiographic or Ultrasonic testing | | Periodic | |
| 5) Fabricator's NDT reports when fabricator performs NDT | Verify reports | | Each submittal (5) | |
| 6. Structural steel bolting: | Shop (3) and field inspection | | | |

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| **MATERIAL / ACTIVITY** | **SERVICE** | **Y/N** | **EXTENT** | **AGENT*** |
| a. Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in accordance with QA tasks listed in AISC 360, Table N5.6-1) | | | Observe or Perform as noted (4) | |
| b.Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2) | | | Observe (4) | |
| 1) Pre-tensioned and slip-critical joints | | | | |
| a) Turn-of-nut with matching markings | | | Periodic | |
| b) Direct tension indicator | | | Periodic | |
| c) Twist-off type tension control bolt | | | Periodic | |
| d) Turn-of-nut without matching markings | | | Continuous | |
| e) Calibrated wrench | | | Continuous | |
| 2) Snug-tight joints | | | Periodic | |
| c. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA tasks listed in AISC 360, Table N5.6-3) | | | Perform (4) | |
| 7. Inspection of steel elements of composite construction prior to concrete placement in accordance with QA tasks listed in AISC 360, Table N6.1 | Shop (3) and field inspection and testing | | Observe or Perform as noted (4) | |
| **1705.2.2 Steel Construction Other Than Structural Steel** | | | | |
| 1. Material verification of cold-formed steel deck: | | | | |
| a. Identification markings | Field inspection | | Periodic | |
| b. Manufacturer's certified test reports | Submittal Review | | Each submittal | |
| 2. Connection of cold-formed steel deck to supporting structure: | Shop (3) and field inspection | | | |
| a. Welding | | | Periodic | |
| b. Other fasteners (in accordance with AISC 360,Section N6) | | | | |
| 1) Verify fasteners are in conformance with approved submittal | | | Periodic | |
| 2) Verify fastener installation is in conformance with approved submittal and manufacturer's recommendations | | | Periodic | |
| 3. Reinforcing steel | Shop (3) and field inspection | | | |
| a. Verification of weldability of steel other than ASTM A706 | | | Periodic | |
| b. Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, boundary elements of special concrete structural walls and shear reinforcement | | | Continuous | |
| c. Shear reinforcement | | | Continuous | |
| d. Other reinforcing steel | | | Periodic | |
| 4. Cold-formed steel trusses spanning 60 feet or greater | | | | |

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| **MATERIAL / ACTIVITY** | **SERVICE** | **Y/N** | **EXTENT** | **AGENT*** |
| a. Verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package | Field inspection | | Periodic | |
| **1705.3 Concrete Construction** | | | | |
| 1. Inspection of reinforcing steel installation (see 1705.2.2 for welding) | Shop (3) and field inspection | | Periodic. | |
| 2. Inspection of prestressing steel installation | Shop (3) and field inspection | | Periodic | |
| 3. Inspection of anchors cast in concrete where allowable loads have been increased per section 1908.5 or where strength design is used | Shop (3) and field inspection | | Continuous | |
| 4. Inspection of anchors and reinforcing steel post-installed in hardened concrete: Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque | Field inspection | | Periodic or as required by the research report issued by an approved source | |
| 5. Verify use of approved design mix | Shop (3) and field inspection | | Periodic | |
| 6. Fresh concrete sampling, perform slump and air content tests and determine temperature of concrete | Shop (3) and field inspection | | Continuous | |
| 7. Inspection of concrete and shotcrete placement for proper application techniques | Shop (3) and field inspection | | Continuous | |
| 8. Inspection for maintenance of specified curing temperature and techniques | Shop (3) and field inspection | | Periodic | |
| 9. Inspection of prestressed concrete: | Shop (3) and field inspection | | | |
| a. Application of prestressing force | | | Continuous | |
| b. Grouting of bonded prestressing tendons in the seismic-force-resisting system | | | Continuous | |
| 10. Erection of precast concrete members | | | | |
| a. Inspect in accordance with construction documents | Field inspection | | In accordance with construction documents | |
| b. Perform inspections of welding and bolting in accordance with Section 1705.2 | Field inspection | | In accordance with Section 1705.2 | |
| 11. Verification of in-situ concrete strength, prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs | Review field testing and laboratory reports | | Periodic | |
| 12. Inspection of formwork for shape, lines, location and dimensions | Field inspection | | Periodic | |

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| **MATERIAL / ACTIVITY** | **SERVICE** | **Y/N** | **EXTENT** | **AGENT*** |
| 13. Concrete strength testing and verification of compliance with construction documents | Field testing and review of laboratory reports | | Periodic | |
| **1705.4 Masonry Construction** | | | | |
| **(A) Level A, B and C Quality Assurance:** | | | | |
| 1. Verify compliance with approved submittals | Field Inspection | | Periodic | |
| **(B) Level B Quality Assurance:** | | | | |
| 1. Verification of f'm and $f'_{AAC}$ prior to construction | Testing by unit strength method or prism test method | | Periodic | |
| **(C) Level C Quality Assurance:** | | | | |
| 1. Verification of f'm and $f'_{AAC}$ prior to construction and for every 5,000 SF during construction | Testing by unit strength method or prism test method | | Periodic | |
| 2. Verification of proportions of materials in premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout, as delivered to the project site | Field inspection | | Continuous | |
| 3. Verify placement of masonry units | Field Inspection | | Periodic | |
| **(D) Levels B and C Quality Assurance:** | | | | |
| 1. Verification of Slump Flow and Visual Stability Index (VSI) of self-consolidating grout as delivered to the project | Field testing | | Continuous | |
| 2. Verify compliance with approved submittals | Field inspection | | Periodic | |
| 3. Verify proportions of site-mixed mortar, grout and prestressing grout for bonded tendons | Field Inspection | | Periodic | |
| 4. Verify grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and anchorages | Field Inspection | | Periodic | |
| 5. Verify construction of mortar joints | Field Inspection | | Periodic | |
| 6. Verify placement of reinforcement, connectors, and prestressing tendons and anchorages | Field Inspection | | Level B - Periodic | |
| | | | Level C - Continuous | |
| 7. Verify grout space prior to grouting | Field Inspection | | Level B - Periodic | |
| | | | Level C - Continuous | |
| 8. Verify placement of grout and prestressing grout for bonded tendons | Field Inspection | | Continuous | |
| 9. Verify size and location of structural masonry elements | Field Inspection | | Periodic | |
| 10. Verify type, size, and location of anchors, including details of anchorage of masonry to structural members, frames, or other construction. | Field inspection | | Level B - Periodic | |
| | | | Level C - Continuous | |

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| **MATERIAL / ACTIVITY** | **SERVICE** | **Y/N** | **EXTENT** | **AGENT*** |
| 11. Verify welding of reinforcement (see 1705.2.2) | Field inspection | | Continuous | |
| 12. Verify preparation, construction, and protestion of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F) | Field inspection | | Periodic | |
| 13. Verify application and measurement of prestressing force | Field Inspection | | Continuous | |
| 14. Verify placement of AAC masonry units and construction of thin-bed mortar joints (first 5000 SF of AAC masonry) | Field inspection | | Continuous | |
| 15. Verify placement of AAC masonry units and construction of thin-bed mortar joints (after the first 5000 SF of AAC masonry) | Field inspection | | Level B - Periodic | |
| | | | Level C - Continuous | |
| 16. Verify properties of thin-bed mortar for AAC masonry (first 5000 SF of AAC masonry) | Field inspection | | Continuous | |
| 17. Verify properties of thin-bed mortar forAAC masonry (after the first 5000 SF of AAC masonry) | Field inspection | | Level B - Periodic | |
| | | | Level C - Continuous | |
| 18. Prepare grout and mortar specimens | Field testing | | Level B - Periodic | |
| | | | Level C - Continuous | |
| 19. Observe preparation of prisms | Field inspection | | Level B - Periodic | |
| | | | Level C - Continuous | |
| **1705.5 Wood Construction** | | | | |
| 1. Inspection of the fabrication process of wood structural elements and assemblies in accordance with Section 1704.2.5 | In-plant review (3) | | Periodic | |
| 2. For high-load diaphragms, verify grade and thickness of structural panel sheathing agree with approved building plans | Field inspection | | Periodic | |
| 3. For high-load diaphragms, verify nominal size of framing members at adjoining panel edges, nail or staple diameter and length, number of fastener lines, and that spacing between fasteners in each line and at edge margins agree with approved building plans | Field inspection | | Periodic | |
| 4. Metal-plate-connected wood trusses with overall heights of 60 inches or greater, verify restraint/bracing has been installed in accordance with the approved truss submittal package. | Field inspection | | Periodic | |

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| **MATERIAL / ACTIVITY** | **SERVICE** | **Y/N** | **EXTENT** | **AGENT*** |
| 5. Metal-plate-connected wood trusses spanning 60 feet or greater: verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package | Field inspection | | Periodic | |
| **1705.6 Soils** | | | | |
| 1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity. | Field inspection | | Periodic | |
| 2. Verify excavations are extended to proper depth and have reached proper material. | Field inspection | | Periodic | |
| 3. Perform classification and testing of controlled fill materials. | Field inspection | | Periodic | |
| 4. Verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill | Field inspection | | Continuous | |
| 5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly | Field inspection | | Periodic | |
| **1705.7 Driven Deep Foundations** | | | | |
| 1. Verify element materials, sizes and lengths comply with requirements | Field inspection | | Continuous | |
| 2. Determine capacities of test elements and conduct additional load tests, as required | Field inspection | | Continuous | |
| 3. Observe driving operations and maintain complete and accurate records for each element | Field inspection | | Continuous | |
| 4. Verify placement locations and 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 | Field inspection | | Continuous | |
| 5. For steel elements, perform additional inspections per Section 1705.2 | See Section 1705.2 | | See Section 1705.2 | |
| 6. For concrete elements and concrete-filled elements, perform additional inspections per Section 1705.3 | See Section 1705.3 | | See Section 1705.3 | |
| 7. For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge | Field inspection | | In accordance with construction documents | |
| 8. Perform additional inspections and tests in accordance with the construction documents | Field Inspection and testing | | In accordance with construction documents | |
| **1705.8 Cast-in-Place Deep Foundations** | | | | |
| 1.Observe drilling operations and maintain complete and accurate records for each element | Field inspection | | Continuous | |

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| **MATERIAL / ACTIVITY** | **SERVICE** | **Y/N** | **EXTENT** | **AGENT*** |
| 2. 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 | Field inspection | | Continuous | |
| 3. For concrete elements, perform additional inspections in accordance with Section 1705.3 | See Section 1705.3 | | See Section 1705.3 | |
| 4. Perform additional inspections and tests in accordance with the construction documents | Field Inspection and testing | | In accordance with construction documents | |
| **1705.9 Helical Pile Foundations** | | | | |
| 1. Verify installation equipment, pile dimensions, tip elevations, final depth, final installation torque and other data as required. | Field inspection | | Continuous | |
| 2. Perform additional inspections and tests in accordance with the construction documents | Field Inspection and testing | | In accordance with construction documents | |
| **1705.11.1 Structural Wood Special Inspections For Wind Resistance** | | | | |
| 1. Inspection of field gluing operations of elements of the main windforce-resisting system | Field inspection | | Continuous | |
| 2. Inspection of nailing, bolting, anchoring and other fastening of components within the main windforce-resisting system | Shop (3) and field inspection | | Periodic | |
| **1705.11.2 Cold-formed Steel Special Inspections For Wind Resistance** | | | | |
| 1.Inspection during welding operations of elements of the main windforce-resisting system | Shop (3) and field inspection | | Periodic | |
| 2.Inspections for screw attachment, bolting, anchoring and other fastening of components within the main windforce-resisting system | Shop (3) and field inspection | | Periodic | |
| **1705.11.3 Wind-resisting Components** | | | | |
| 1. Roof cladding | Shop (3) and field inspection | | Periodic | |
| 2. Wall cladding | Shop (3) and field inspection | | Periodic | |
| **1705.12.1 Structural Steel Special Inspections for Seismic Resistance** | | | | |
| Inspection of structural steel in accordance with AISC 341 | Shop (3) and field inspection | | In accordance with AISC 341 | |
| **1705.12.2 Structural Wood Special Inspections for Seismic Resistance** | | | | |

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| **MATERIAL / ACTIVITY** | **SERVICE** | **Y/N** | **EXTENT** | **AGENT*** |
| 1. Inspection of field gluing operations of elements of the seismic-force resisting system | Field inspection | | Continuous | |
| 2. Inspection of nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system | Shop (3) and field inspection | | Periodic | |
| **1705.12.3 Cold-formed Steel Light-Frame Construction Special Inspections for Seismic Resistance** | | | | |
| 1. Inspection during welding operations of elements of the seismic-force-resisting system | Shop (3) and field inspection | | Periodic | |
| 2. Inspections for screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system | Shop (3) and field inspection | | Periodic | |
| **1705.12.4 Designated Seismic Systems Verification** | | | | |
| Inspect and verify that the component label, anchorage or mounting conforms to the certificate of compliance in accordance with Section 13.2.2 of ASCE 7. | Field inspection | | Periodic | |
| **1705.12.5 Architectural Components Special Inspections for Seismic Resistance** | | | | |
| 1. Inspection during the erection and fastening of exterior cladding and interior and exterior veneer | Field inspection | | Periodic | |
| 2. Inspection during the erection and fastening of interior and exterior nonbearing walls | Field inspection | | Periodic | |
| 3. Inspection during anchorage of access floors | Field inspection | | Periodic | |
| **1705.12.6 Mechanical and Electrical Components Special Inspections for Seismic Resistance** | | | | |
| 1. Inspection during the anchorage of electrical equipment for emergency or standby power systems. (SDC C,D,E,F) | Field inspection | | Periodic | |
| 2. Inspection during the anchorage of other electrical equipment. (SDC E,F) | Field inspection | | Periodic | |
| 3. Inspection during installation and anchorage of piping systems designed to carry hazardous materials, and their associated mechanical units (SDC C,D,E,F) | Field inspection | | Periodic | |
| 4. Inspection during the installation and anchorage of HVAC ductwork that will contain hazardous materials. (SDC C,D,E,F) | Field inspection | | Periodic | |

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| 5. Inspection during the installation and anchorage of vibration isolation systems. (SDC C,D,E,F) | Field inspection | | Periodic | |
| 6. Inspection of mechanical and electrical equipment where automatic fire sprinkler systems are installed. (SDC C,D,E,F) | Field inspection | | Periodic | |
| **1705.12.7 Storage Racks Special Inspections for Seismic Resistance (SDC D,E,F)** | | | | |
| Inspection during the anchorage of storage racks 8 feet or greater in height | Field inspection | | Periodic | |
| **1705.12.8 Seismic Isolation Systems (SDC B,C,D,E,F)** | | | | |
| Inspection during the fabrication and installation of isolator units and energy dissipation devices used as part of the seismic isolation system | Shop and field inspection | | Periodic | |
| **1705.13 Concrete Reinforcement Testing and Qualification for Seismic Resistance** | | | | |
| 1. Review certified mill test reports for each shipment of reinforcement used to resist earthquake-induced flexural and axial forces in reinforced concrete special moment frames, special structural walls, and coupling beams connecting special structural walls | Review certified mill test reports | | Each shipment | |
| 2. Verify reinforcement weldability of ASTM A615 reinforcement used to resist earthquake-induced flexural and axial forces in reinforced concrete special moment frames, special structural walls, and coupling beams connecting special structural walls | Review test reports | | Each shipment | |
| **1705.13.1 Structural Steel Testing and Qualification for Seismic Resistance** | | | | |
| Test in accordance with the quality assurance requirements of AISC 341 | Shop (3) and field testing | | Per AISC 341 | |
| **1705.13.2 Seismic Certification of Nonstructural Components** | | | | |
| Review certificate of compliance for designated seismic system components. | Certificate of compliance review | | Each submittal | |
| **1705.13.4 Seismic Isolation Systems** | | | | |
| Test seismic isolation system in accordance with ASCE 7 Section 17.8 | Prototype testing | | Per ASCE 7 | |

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| **1705.14 Sprayed Fire-resistant Materials** | | | | |
| 1. Verify surface condition preparation of structural members | Field inspection | | Periodic | |
| 2. Verify average thickness of sprayed fire-resistant materials applied to structural members | Field inspection and testing | | Per IBC Section 1705.14.4 | |
| 3. Verify density of the sprayed fire-resistant material complies with approved fire-resistant design | Field inspection and testing | | Per IBC Section 1705.14.5 | |
| 4. Verify the cohesive/adhesive bond strength of the cured sprayed fire-resistant material | Field inspection and testing | | Per IBC Section 1705.14.6 | |
| 5. Verify the condition of the finished application. | Field inspection | | | |
| **1705.15 Mastic and Intumescent Fire-Resistant Coatings** | | | | |
| Inspect mastic and intumescent fire-resistant coatings applied to structural elements and decks | Field inspection | | Periodic | |
| **1705.16 Exterior Insulation and Finish Systems (EIFS)** | | | | |
| 1. Verify materials, details and installations are per the approved construction documents | Field inspection | | Periodic | |
| 2. Inspection of water-resistive barrier over sheathing substrate | Field inspection | | Periodic | |
| **1705.17 Fire-Resistant Penetrations and Joints** | | | | |
| 1. Inspect penetration firestop systems | Field testing | | Per ASTM E2174 | |
| 2. Inspect fire-resistant joint systems | Field testing | | Per ASTM E2393 | |
| **1705.18 Smoke Control Systems** | | | | |
| 1. Leakage testing and recording of device locations prior to concealment | Field testing | | Periodic | |
| 2. Prior to occupancy and after sufficient completion, pressure difference testing, flow measurements, and detection and control verification | Field testing | | Periodic | |
| **ADDITIONAL SPECIAL INSPECTIONS required by Building and Site Development** | | | | |
| Accessible Route Certification | | **Y** | | |
| Exterior Lighting Certification | | **Y** | | |
| Preliminary Commissioning Report | | | Per IECC | |
| Lighting Control Systems Report | | | Per IECC | |
| State Elevator Certification | | | | |
| State Boiler Certification | | | | |
| As-Built BMP required | | | | |

-Special inspection reports are to be kept on the job for Building inspector Verification. Send reports bi-weekly to bsdsir@gocolumbiamo.com.

-All discrepancies must be brought to the immediate attention of the contractor for correction. If not corrected discrepancies must be brought to the immediate attention of the building official, and design professional in responsible charge before completion of that stage of work.

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-A final special inspection report, from the special inspector(s), documenting the required special inspections were performed, correction of discrepancies, and compliance with construction documents shall be submitted before a Certificate of Occupancy is issued.

*** INSPECTION AGENTS**

| | **FIRM** | **ADDRESS** |
|---|---|---|
| 1. | | |
| 2. | | |
| 3. | | |
| 4. | | |

***Notes:***

*1. The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Special Inspector(s) and/or testing agencies may be subject to the approval of the Building Official and/or the Design Professional.*

*2. The list of Special Inspectors may be submitted as a separate document, if noted so above.*

*3. Special Insepctions as required by Section 1704.2.5 are not required where the fabricator is approved in accordance with IBC Section 1704.2.5.1.*

*4. Observe on a random basis, operations need not be delayed pending these inspections. Perform these tasks for each welded joint, bolted connection, or steel element.*

*5. NDT of welds completed in an approved fabricator's shop may be performed by that fabricator when approved by the AHJ. Refer to AISC 360, N7.*

Are *Requirements for Seismic Resistance* included in the *Statement of Special Inspections*? **Yes No**
Are *Requirements for Wind Resistance* included in the *Statement of Special Inspections*? **Yes No**

Registered design professional in responsible charge:

_____ DATE _____ **SEAL**

**TO BE POSTED ON THE JOB**