

# SCHEDULE OF SPECIAL INSPECTION SERVICES

| MATERIAL/ACTIVITY  | SERVICE   | APPLICABLE TO THIS PROJECT |                                 |                       |
|--|---|----------------------------|---------------------------------|-----------------------|
|  |   | Y/N                        | EXTENT                          | AGENT* DATE COMPLETED |
| <b>1704.2.5 Inspection of Fabricators</b>  |   |                            |                                 |                       |
| Verify fabrication/quality control procedures  | In-plant review (3)   | Y                          | Periodic                        | TA                    |
| <b>1705.2 Steel Construction</b>   |   |                            |                                 |                       |
| 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  | Y                          | Each submittal                  | TA                    |
| 2. Material verification of structural steel   | Shop (3) and field inspection                               | Y                          | Periodic                        | TA                    |
| 3. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)  | Field inspection  | Y                          | Periodic                        | TA                    |
| 4. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents                           | Field inspection  | Y                          | Periodic                        | TA                    |
| <b>5. Structural steel welding:</b>  |   |                            |                                 |                       |
| 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                               | Y                          | Observe or Perform as noted (4) | TA                    |
| b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-2)                          | Shop (3) and field inspection                               | Y                          | Observe (4)                     | TA                    |
| 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                               | Y                          | Observe or Perform as noted (4) | TA                    |
| 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%                 | N                          | Periodic                        | NA                    |
| 2) Complete penetration groove welds 5/16" or greater in risk category II  | Shop (3) or field ultrasonic testing - 10% of welds minimum | Y                          | Periodic                        | TA                    |
| 3) Thermally cut surfaces of access holes when material t > 2  | Shop (3) or field magnetic Particle or Penetrant testing    | N                          | Periodic                        | NA                    |
| 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        | N                          | Periodic                        | NA                    |
| 5) Fabricator's NDT reports when fabricator performs NDT   | Verify reports  | Y                          | Each submittal (5)              | TA                    |
| <b>6. Structural steel bolting:</b>  |   |                            |                                 |                       |
| 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)        |   | Y                          | Observe or Perform as noted (4) | TA                    |
| b. Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2)   |   | Y                          | Observe (4)                     | TA                    |
| 1) Pre-tensioned and slip-critical joints  |   | N                          | Periodic                        | NA                    |
| a) Turn-of-nut with matching markings  |   | N                          | Periodic                        | NA                    |
| b) Direct tension indicator  |   | N                          | Periodic                        | NA                    |
| c) Twist-off type tension control bolt   |   | N                          | Periodic                        | NA                    |
| d) Turn-of-nut without matching markings   |   | N                          | Continuous                      | NA                    |
| e) Calibrated wrench   |   | N                          | Continuous                      | NA                    |
| 2) Snug-tight joints   |   | Y                          | Periodic                        | TA                    |
| c. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA tasks listed in AISC 360, Table N5.6-3)                        |   | Y                          | Perform (4)                     | TA                    |
| <b>7. Inspection of steel elements of composite construction prior to concrete placement in accordance with QA tasks listed in AISC 360, Table N6.1</b>          |   |                            |                                 |                       |
|  | Shop (3) and field inspection and testing                   | N                          | Observe or Perform as noted (4) | NA                    |

|  |  |   |   |    |  |
|--|--|---|---|----|--|
| <b>1705.3 Concrete Construction</b>  |  |   |   |    |  |
| 1. Inspection of reinforcing steel installation (see 1705.2.2 for welding)   | Shop (3) and field inspection                  | Y | Periodic  | TA |  |
| 2. Inspection of prestressing steel installation   | Shop (3) and field inspection                  | N | Periodic  | NA |  |
| 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                  | N | Periodic  | NA |  |
| 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 lightening torque | Field inspection                               | Y | Periodic or as required by the research report issued by an approved source | TA |  |
| 5. Verify use of approved design mix   | Shop (3) and field inspection                  | Y | Periodic  | TA |  |
| 6. Fresh concrete sampling, perform slump and air content tests and determine temperature of concrete  | Shop (3) and field inspection                  | Y | Continuous  | TA |  |
| 7. Inspection of concrete and shotcrete placement for proper application techniques  | Shop (3) and field inspection                  | Y | Continuous  | TA |  |
| 8. Inspection for maintenance of specified curing temperature and techniques   | Shop (3) and field inspection                  | Y | Periodic  | TA |  |
| <b>9. Inspection of prestressed concrete:</b>  |  |   |   |    |  |
| a. Application of prestressing force   | Shop (3) and field inspection                  | N | Continuous  | NA |  |
| b. Grouting of bonded prestressing tendons in the seismic-force-resisting system   |  | N | Continuous  | NA |  |
| <b>10. Erection of precast concrete members</b>  |  |   |   |    |  |
| a. Inspect in accordance with construction documents   | Field inspection                               | N | In accordance with construction documents                                   | NA |  |
| b. Perform inspections of welding and bolting in accordance with Section 1705.2  | Field inspection                               | N | In accordance with Section 1705.2   | NA |  |
| 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    | N | Periodic  | NA |  |
| 12. Inspection of formwork for shape, lines, location and dimensions   | Field inspection                               | Y | Periodic  | TA |  |
| 13. Concrete strength testing and verification of compliance with construction documents   | Field testing and review of laboratory reports | Y | Periodic  | TA |  |
| <b>1705.5 Wood Construction</b>  |  |   |   |    |  |
| 1. Inspection of the fabrication process of wood structural elements and assemblies in accordance with Section 1704.2.5  | In-plant review (3)                            | Y | Periodic  | NA |  |
| 2. For high-load diaphragms, verify grade and thickness of structural panel sheathing agree with approved building plans   | Field inspection                               | Y | Periodic  | NA |  |
| 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                               | Y | Periodic  | NA |  |
| 4. Metal-plate-connected wood trusses verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package   | Field inspection                               | Y | Periodic  | TA |  |
| <b>1705.6 Soils</b>  |  |   |   |    |  |
| 1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity  | Field inspection                               | Y | Periodic  | TA |  |
| 2. Verify excavations related to proper design items, retaining, shoring, matings  | Field inspection                               | Y | Periodic  | TA |  |
| 3. Perform classification and testing of controlled fill materials   | Field inspection                               | Y | Periodic  | TA |  |
| 4. Verify use of proper materials, densities, and thicknesses during placement and compaction of controlled fill   | Field inspection                               | Y | Continuous  | TA |  |
| 5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly   | Field inspection                               | Y | Periodic  | TA |  |

| 1705.10.1 Structural Wood Special Inspections For Wind Resistance  |                               |                |            |                      |  |
|--|-------------------------------|----------------|------------|----------------------|--|
| 1. Inspection of field gluing operations of elements of the main windforce-resisting system  | Field inspection              | N              | Continuous | NA                   |  |
| 2. Inspection of nailing, bolting, anchoring and other fastening of components within the main windforce-resisting system  | Shop (3) and field inspection | N              | Periodic   | NA                   |  |
| <b>1705.11.2 Structural Wood Special Inspections for Seismic Resistance</b>  |                               |                |            |                      |  |
| 1. Inspection of field gluing operations of elements of the seismic-force resisting system   | Field inspection              | N              | Continuous | NA                   |  |
| 2. Inspection of nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system   | Shop (3) and field inspection | N              | Periodic   | NA                   |  |
| <b>*INSPECTION AGENTS FIRM</b>   |                               | <b>ADDRESS</b> |            | <b>TELEPHONE NO.</b> |  |
| 1.   |                               |                |            |                      |  |
| 2.   |                               |                |            |                      |  |
| 3.   |                               |                |            |                      |  |
| 4.   |                               |                |            |                      |  |
| <b>Notes:</b>  |                               |                |            |                      |  |
| 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 agent(s) of the Special Inspector(s) and/or testing agencies may be subject to the approval of the Building Official and/or the State Professional. |                               |                |            |                      |  |
| 2. The list of Special Inspectors may be submitted as a separate document, if noted so above.  |                               |                |            |                      |  |
| 3. Special Inspections as required by Section 1704.2.5 are not required where the fabricator is approved in accordance with IBC Section 1704.2.5.2   |                               |                |            |                      |  |
| 4. Observe on a random basis, operations need not be delayed pending these inspections. Form 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 the 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)       |            | Yes (No)             |  |
| Are Requirements for Wind Resistance included in the Statement of Special Inspections?   |                               | Yes (No)       |            | Yes (No)             |  |
| <b>Abbreviations:</b>  |                               |                |            |                      |  |
| TA = Testing Agency  |                               |                |            |                      |  |
| EOR = Engineer of Record   |                               |                |            |                      |  |
| AOR = Architect of Record  |                               |                |            |                      |  |
| N/A = Not Applicable   |                               |                |            |                      |  |

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 CARTERSVILLE, GA 30121

| REVISIONS |
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**SCHEDULE OF SPECIAL INSPECTIONS**

DATE: 09/16/20

PROJECT NUMBER: 19303

SHEET NUMBER: S5.1