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SCHEDULE OF SPECIAL INSPECTIONS

SPECIAL CASES	EXTENT OF SERVICE	AGENT
<p>Reference: IBC Section 1705.1.1 and Section 1.2 of the Special Inspections Program Manual.</p> <p>Testing procedures used and evaluation of test results, by an engineer registered in S.C., shall be submitted to the City of Rock Hill for review and approval prior to the commencement of the work.</p>	<p>(Continuous or periodic)</p>	
<p>INSPECTION OF FABRICATED ITEMS</p> <p>Reference: IBC Section 1705.10. Special Inspections of fabricated items shall be performed in accordance with IBC Section 1704.2.5. (The exceptions of IBC Section 1704.2.5 and the requirements of IBC Section 1704.2.5.1 may apply subject to City of Rock Hill approval).</p>		

STRUCTURAL STEEL

Reference: IBC Section 1705.2.1. Inspections and non-destructive testing of structural steel elements shall be in accordance with the quality assurance requirements of AISC 360,

Fabricator and Erector Quality Control Program

Reference AISC 360, Chapter N, Section N2.

The fabricator’s Quality Control Inspector shall inspect the following as a minimum, as applicable:

- 1. Shop welding, high-strength bolting, and details in accordance with AISC 360 Section N5.
- 2. Shop cut and finished surfaces in accordance in accordance with AISC 360, Section M2.
- 3. Shop heating for straightening, cambering and curving in accordance with AISC 360, Section M2.1.
- 4. Tolerances for shop fabrication in accordance with Section 6 of the Code of Standard

Practice. The erector’s Quality Control Inspector shall inspect the following as a minimum, as applicable:

- 1. Field welding, high-strength bolting, and details in accordance with AISC 360, Section N5.
- 2. Steel deck and headed steel stud anchor placement and attachment in accordance with AISC 360, Section N6.

Fabricator and Erector Documents

Reference AISC 360, Chapter N, Section N3.

Submittals for Steel Construction and Available Documents for Steel Construction shall conform to AISC 360, Section N3.

Inspection and Nondestructive Testing Personnel

Reference AISC 360, Chapter N, Section N4

Quality Control Inspector (fabricator or erector) Qualifications, Quality Assurance Inspector (special inspector) Qualifications and Nondestructive Testing Personnel (inspection agency personnel) Qualifications shall conform to AISC 360, Section N4.

Minimum Requirements for Inspection of Structural Steel Buildings

Reference AISC 360, Chapter N, Section N5.

Quality Control Inspections by the fabricator’s or erector’s Quality Control Inspector (QCI) and Quality Assurance Inspections of fabricated items and the erected steel system by the Special Inspector (SI), shall conform to AISC 360, Section N5 and tables N5.4-1, N5.4-2, N5.4-3, N5.6-1, N5.6-2 and N5.6-3. In these tables inspection tasks are as follows:

O-Observe these items on a random basis. Operations need not be delayed pending these inspections.

P-Perform these tasks for each welded joint or member.

(Continued)

STRUCTURAL STEEL (Continued)**Nondestructive Testing of Welded joints**

Nondestructive testing of welded joints shall conform to AISC 360, Section N5 and shall be performed by the Special Inspector (quality assurance inspector) in accordance with AWS D1.1.

TABLE N5.4-1
Inspection Tasks Prior to Welding
 Reference AISC 360, Chapter N

Inspection Tasks Prior to Welding	QC	AGENT	SI	AGENT
Welding procedure specifications (WPSs) available				
Manufacturer certifications for welding consumables available				
Material identification (type/grade)				
Welder identification system*				
Fit-up of groove welds (including joint geometry) <ul style="list-style-type: none"> ▪ Joint preparation ▪ Dimensions (alignment, root opening, root face, bevel) ▪ Cleanliness (condition of steel surfaces) ▪ Tacking (tack weld quality and location) ▪ Backing type and fit (if applicable) 				
Configuration and finish of access holes				
Fit-up of fillet welds <ul style="list-style-type: none"> ▪ Dimensions (alignment, gaps and root) ▪ Cleanliness (condition of steel surfaces) ▪ Tacking (tack weld quality and location) 				
Check welding equipment				

* The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type.

Where:

O-Observe these items on a random basis. Operations need not be delayed pending these inspections.

P-Perform these tasks for each welded joint or member.

QC-Quality Control Inspector ((fabricator or erector).

SI-Special Inspector (quality assurance inspector).

TABLE N5.4-2
Inspection Tasks During Welding
 Reference AISC 360, Chapter N

Inspection Tasks During Welding	QC	AGENT	SI	AGENT
Use of qualified welders				
Control and handling of welding consumables <ul style="list-style-type: none"> ▪ Packaging ▪ Exposure control 				

(Continued)

TABLE N5.4-2 (Continued)

Inspection Tasks During Welding	QC	AGENT	SI	AGENT
No welding over cracked tack welds				
Environmental conditions <ul style="list-style-type: none"> ▪ Wind speed within limits ▪ Precipitation and temperature 				
WPS followed <ul style="list-style-type: none"> ▪ Settings on welding equipment ▪ Travel speed ▪ Selected welding materials ▪ Shielding gas type/flow rate ▪ Preheat applied ▪ Interpass temperature maintained (min./max.) ▪ Proper position (F, V, H, OH) 				
Welding techniques <ul style="list-style-type: none"> ▪ Interpass and final cleaning ▪ Each pass within profile limitations ▪ Each pass meets quality requirements 				
Where: O -Observe these items on a random basis. Operations need not be delayed pending these inspections. P -Perform these tasks for each welded joint or member. QC -Quality Control Inspector (fabricator or erector). SI -Special Inspector (quality assurance inspector).				

**TABLE N5.4-3
Inspection Tasks After Welding
Reference AISC 360, Chapter N**

Inspection Tasks After Welding	QC	AGENT	SI	AGENT
Welds cleaned				
Size, length and location of welds				
Welds meet visual acceptance criteria <ul style="list-style-type: none"> ▪ Crack prohibition ▪ Weld/base-metal fusion ▪ Crater cross section ▪ Weld profiles ▪ Weld size ▪ Undercut ▪ Porosity 				
Arc strikes				
k-area*				
Backing removed and weld tabs removed (if required)				

(Continued)

TABLE N5.4-3 (Continued)

Inspection Tasks After Welding	QC	AGENT	SI	AGENT
Repair activities				
Document acceptance or rejection of welded joint of member				
*When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. of the weld.				
Where: O -Observe these items on a random basis. Operations need not be delayed pending these inspections. P -Perform these tasks for each welded joint or member. QC -Quality Control Inspector (fabricator or erector). SI -Special Inspector (quality assurance inspector).				

TABLE N5.6-1
Inspection Tasks Prior to Bolting
Reference AISC 360, Chapter N

Inspection Tasks Prior to Bolting	QC	AGENT	SI	AGENT
Manufacturer's certifications available for fastener materials				
Fasteners marked in accordance with ASTM requirements				
Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)				
Proper bolting procedure selected for joint detail				
Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements				
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and				
Proper storage provided for bolts, nuts, washers and other fastener components				
Where: O -Observe these items on a random basis. Operations need not be delayed pending these inspections. P -Perform these tasks for each welded joint or member. QC -Quality Control Inspector (fabricator or erector). SI -Special Inspector (quality assurance inspector).				

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STRUCTURAL STEEL (Continued)

TABLE N5.6-2
Inspection Tasks During Bolting
Reference AISC 360, Chapter N

Inspection Tasks During Bolting	QC	AGENT	SI	AGENT
Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required				
Joint brought to the snug-tight condition prior to the pretensioning operation				
Fastener component not turned by the wrench prevented from rotating				
Fasteners are pretensioned in accordance with RCSC Specification, progressing systematically from the most rigid point toward the free edges				
Where: O -Observe these items on a random basis. Operations need not be delayed pending these inspections. P -Perform these tasks for each welded joint or member. QC -Quality Control Inspector (fabricator or erector). SI -Special Inspector (quality assurance inspector).				

TABLE N5.6-3
Inspection Tasks After Bolting
Reference AISC 360, Chapter N

Inspection Tasks After Bolting	QC	AGENT	SI	AGENT
Document acceptance or rejection of bolted connections				
Where: O -Observe these items on a random basis. Operations need not be delayed pending these inspections. P -Perform these tasks for each welded joint or member. QC -Quality Control Inspector (fabricator or erector). SI -Special Inspector (quality assurance inspector).				

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STRUCTURAL STEEL (Continued)

Minimum Requirements for Inspection of Composite Construction

Reference AISC 360 , Chapter N , Section N6

Inspection of Composite Construction shall conform to AISC 360, Section N6 and table N6.1

TABLE N6.1

Inspection of Steel Elements of Composite Construction Prior to Concrete Placement

Reference AISC 360, Chapter N

Inspection of Steel Elements of Composite Construction Prior to Concrete Placement	QC	AGENT	SI	AGENT
Placement and installation of steel deck				
Placement and installation of steel headed stud anchors				
Document acceptance or rejection of steel elements				

Where:

- O**-Observe these items on a random basis. Operations need not be delayed pending these inspections.
- P**-Perform these tasks for each welded joint or member.
- QC**-Quality Control Inspector (fabricator or erector).
- SI**-Special Inspector (quality assurance inspector).

Inspection of Fabricators and Fabrication Procedures

Reference IBC Section 1704.2.5

Inspection of fabricators and fabrication procedures shall be performed by the Quality Assurance Inspector (special inspector) and shall conform to IBC Sections 1704.2.5. (The exceptions of Section 1704.2.5 and the requirements of IBC Section 1704.2.5.1 may apply subject to City of Rock Hill approval).

Nonconforming Materials and Workmanship

Reference AISC 360, Chapter N, Section N8

Identification and rejection of materials or workmanship that is not in conformance with the construction documents shall be permitted at any time during the progress of the work.
Nonconforming material and workmanship shall be brought to the immediate attention of the General Contractor and the fabricator or erector, as applicable.
Nonconforming material or workmanship shall be brought into conformance, or made suitable for its intended purpose as determined by the Structural Engineer of Record.
Structural repairs shall be reviewed and approved by the City of Rock Hill.

COLD-FORMED STEEL DECK

Reference: IBC Section 1705.2.2. Inspections and qualification of welding special inspectors for cold-formed steel floor and roof deck shall be in accordance with the quality assurance inspection requirements of SDI QA/QC-2011 Standard for Quality Control and Quality Assurance for Installation of Steel Deck .

Required Submittals

Reference: SDI QA/QC-2011, Section 2.

Documents to be submitted to the SER and the Owner/General Contractor for approval prior to the installation of the steel deck shall conform to SDI QA/QC-2011, Section 2.

Inspection and Testing Personnel

Reference SDI QA/QC-2011, Section 3

The Quality Control Inspector (installer) Qualifications and the Quality Assurance Inspector (special inspector) Qualifications shall conform to SDI QA/QC-2011, Section 3

Requirements for Inspection of Steel Deck Installation

Reference SDI QA/QC-2011, Section 4.

The requirements for inspection for steel deck installation shall conform to SDI QA/QC-2011, Section 4

Installer’s Quality Control Program

Reference SDI QA/QC-2011, Section 5.

The installer’s quality control program shall conform to SDI QA/QC-2011, Section 5. All material control and installation procedures shall be monitored by the installer’s Quality Control Inspector (QCI)

Quality Assurance Tasks

Reference SDI QA/QC-2011, Section 6.

The quality assurance tasks shall conform to SDI QA/QC-2011, Section 6 and shall be performed by the Quality Assurance Inspector (QAI).

Nonconforming material and workmanship

Reference SDI QA/QC-2011, Section 7.

Identification and rejection of materials and workmanship not in conformance with the construction documents shall be as per SDI QA/QC-2011, Section 7. Nonconforming material or workmanship shall be brought into conformance, or made suitable for its intended purpose as determined by the structural engineer of record (SER).

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COLD-FORMED STEEL DECK (Continued)					
TABLE 1.1					
Inspection or Execution Tasks Prior to Deck Placement					
Reference SDI QA/QC-2011, Appendix 1.					
	Task	QCI	AGENT	QAI	AGENT
A	Verify compliance of materials (deck and all deck Accessories with construction documents, including profiles, material properties, and base metal thickness				
B	Document acceptance or rejection of installation of Deck and deck accessories				
<p>Where:</p> <p>P-Inspect these items on an intermittent basis. Operations need not be delayed pending these inspections.</p> <p>O-Perform these tasks prior to final acceptance for each item or element.</p> <p>QCI-Quality Control Inspector (Installer).</p> <p>QAI-Quality Assurance Inspector (Special Inspector).</p>					
TABLE 1.2					
Inspection and Execution Tasks After Deck Placement					
Reference SDI QA/QC-2011, Appendix1.					
	Task	QCI	AGENT	QAI	AGENT
A	Verify compliance of deck and all deck accessories installation with construction documents				
B	Verify deck materials are represented by the mill certifications that comply with the construction documents				
C	Document acceptance or rejection of installation of deck and deck accessories.				
<p>Where:</p> <p>P-Inspect these items on an intermittent basis. Operations need not be delayed pending these inspections</p> <p>O-Perform these tasks prior to final acceptance for each item or element.</p> <p>QCI-Quality Control Inspector (Installer).</p> <p>QAI-Quality Assurance Inspector (Special Inspector).</p>					

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COLD-FORMED STEEL DECK (Continued)					
TABLE 1.3 Inspection or Execution Tasks Prior to Welding Reference SDI QA/QC-2011, Appendix1					
	Task	QCI	AGENT	QAI	AGENT
A	Welding procedure specifications (WPS) available				
B	Manufacturer certifications for welding consumables available				
C	Material identification (type/grade)				
D	Check welding equipment				
<p>Where:</p> <p>P-Inspect these items on an intermittent basis. Operations need not be delayed pending these inspections</p> <p>O-Perform these tasks prior to final acceptance for each item or element.</p> <p>QCI-Quality Control Inspector (Installer).</p>					
TABLE 1.4 Inspection or Execution Tasks During Welding Reference SDI QA/QC-2011, Appendix1.					
	Task	QCI	AGENT	QAI	AGENT
A	Use of qualified welders				
B	Control and handling of welding consumables				
C	Environmental conditions 9wind speed, moisture, temperature				
D	WPS followed				
<p>Where:</p> <p>P-Inspect these items on an intermittent basis. Operations need not be delayed pending these inspections</p> <p>O-Perform these tasks prior to final acceptance for each item or element.</p> <p>QCI-Quality Control Inspector (Installer).</p> <p>QAI-Quality Assurance Inspector (Special Inspector).</p>					

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COLD-FORMED STEEL DECK (Continued)

TABLE 1.5
Inspection or Execution Tasks After Welding
 Reference SDI QA/QC-2011, Appendix 1.

	Task	QCI	AGENT	QAI	AGENT
A	Verify size and location of welds, including support, side lap, and perimeter welds				
B	Welds meet visual acceptance criteria				
C	Verify repair activities				
D	Document acceptance or rejection of welds				

Where:

P-Inspect these items on an intermittent basis. Operations need not be delayed pending these inspections

O-Perform these tasks prior to final acceptance for each item or element.

QCI-Quality Control Inspector (Installer).

QAI-Quality Assurance Inspector (Special Inspector).

TABLE 1.6
Inspection or Execution Tasks Prior to Mechanical Fastening
 Reference SDI QA/QC-2011, Appendix 1.

	Task	QCI	AGENT	QAI	AGENT
A	Manufacturer installation instructions available for mechanical fasteners				
B	Proper tools available for fastener installation				
C	Proper storage for mechanical fasteners				

Where:

P-Inspect these items on an intermittent basis. Operations need not be delayed pending these inspections

O-Perform these tasks prior to final acceptance for each item or element.

QCI-Quality Control Inspector (Installer).

QAI-Quality Assurance Inspector (Special Inspector).

TABLE 1.7
Inspection or Execution Tasks Prior to Mechanical Fastening
 Reference SDI QA/QC-2011, Appendix 1.

	Task	QCI	AGENT	QAI	AGENT
A	Fasteners are positioned as required				
B	Fasteners are installed in accordance with manufacturer's instructions				

Where:

P-Inspect these items on an intermittent basis. Operations need not be delayed pending these inspections

O-Perform these tasks prior to final acceptance for each item or element.

QCI-Quality Control Inspector (Installer).

QAI-Quality Assurance Inspector (Special Inspector).

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COLD-FORMED STEEL DECK (Continued)					
TABLE 1.8 Inspection or Execution Tasks After Mechanical Fastening Reference SDI QA/QC-2011, Appendix 1					
	Task	QCI	AGENT	QAI	AGENT
A	Check spacing, type, and installation of support fasteners				
B	Check spacing, type, and installation of side lap fasteners				
C	Check spacing, type, and installation of perimeter fasteners				
D	Verify repair activities				
E	Document acceptance or rejection of mechanical fasteners				
<p>Where:</p> <p>P-Inspect these items on an intermittent basis. Operations need not be delayed pending these inspections</p> <p>O-Perform these tasks prior to final acceptance for each item or element.</p> <p>QCI-Quality Control Inspector (Installer).</p> <p>QAI-Quality Assurance Inspector (Special Inspector).</p>					
OPEN-WEB STEEL JOISTS AND JOIST GIRDERS					
Reference: IBC Section 1705.2.3, IBC Table 1705.2.3 .					
Required Special Inspections of Open Web Steel Joists and Joist Girders			EXTENT OF SERVICE		AGENT
Reference: IBC Table 1705.2.3			(Continuous or periodic)		
1. Installation of open-web steel joists and joist girders.					
a. End connections – welding or bolted.					
b. Bridging – horizontal or diagonal					
1. Standard bridging					
2. Bridging that differs from the Steel Joist					
Institute SJI specifications listed in IBC Section					
COLD-FORMED STEEL TRUSSES SPANNING 60 FEET OR GREATER					
Reference: IBC Section 1705.2.4					
CONCRETE CONSTRUCTION					
Reference: IBC Section 1705.3					
Special inspections and tests of concrete construction shall be performed in accordance with IBC Section 1705.3, IBC Table 1705.3					

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CONCRETE (Continued) Reference: IBC Table 1705.3	EXTENT OF SERVICE (Continuous or periodic)	AGENT
1. Inspect reinforcement, including prestressing tendons, and verify placement.		
2. Reinforcing bar welding: <ul style="list-style-type: none"> a. Verify weldability of reinforcing bars other than ASTM A706; b. Inspect single-pass fillet welds, maximum 5/16; and c. Inspect all other welds. 		
3. Inspect anchors cast in concrete.		
4. Inspect anchors post-installed in hardened concrete members. See note below. <ul style="list-style-type: none"> a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. Installation shall be performed by an ACI or CRSI certified adhesive anchor installer. b. Mechanical anchors and adhesive anchors not defined in 4.a. 		
5. Verify use of required design mix.		
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.		
7. Inspect concrete and shotcrete placement for proper application techniques.		
8. Verify maintenance of specified curing temperature and techniques.		
9. Inspect prestressed concrete for: <ul style="list-style-type: none"> a. Application of prestressing forces; and b. Grouting of bonded prestressing tendons. 		
10. Inspect erection of precast concrete members.		
11. Verify 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. The strength evaluation shall be demonstrated by field cured cylinders only.		
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.		

Note: Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.8.2 in ACI 318, or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the City of Rock Hill prior to the commencement of the work.

MASONRY CONSTRUCTION		
Reference: IBC Section 1705.4 Special inspections and tests of masonry construction shall be performed in accordance with the Quality Assurance Program requirements of TMS 402/ACI 530/ASCE 5 and TMS 602/ACI 530.1/ASCE 6.		
MASONRY LEVEL A QUALITY ASSURANCE		
Masonry construction shall be inspected in accordance with TMS 402/ACI 530/ASCE 5 (Table 3.1.1) and TMS 602/ACI 530.1/ASCE 6 (Table 3) Quality Assurance Program requirements		
MINIMUM TESTS		
None		
MINIMUM VERIFICATION		
Prior to construction, verify certificates of compliance used in masonry construction.		
MASONRY LEVEL B QUALITY ASSURANCE		
Masonry construction shall be inspected in accordance with TMS 402/ACI 530/ASCE 5 (Table 3.1.2) and TMS 602/ACI 530.1/ASCE 6 (Table 4) Quality Assurance Program requirements		
MINIMUM TESTS		
Verification of slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with TMS 602/ACI 530.1/ASCE 6 Specification Article 1.5 B.1.b.3 for self-consolidating grout.		
Verification of f'_m & f'_{aac} in accordance with TMS 602/ACI 530.1/ASCE 6 Specification Article 1.4 B prior to construction, except where specifically exempted by TMS 402/ACI 530/ASCE 5 Code.		
MINIMUM SPECIAL INSPECTION		
INSPECTION TASK	EXTENT OF SERVICE (Continuous or periodic)	AGENT
1. Verify compliance with the approved submittals.		
2. As masonry construction begins, verify that the following are in compliance:		
a. Proportions of site-prepared mortar.		
b. Construction of mortar joints.		
c. Grade and size of prestressing tendons and anchorages.		
d. Location of reinforcement, connectors, and prestressing tendons and anchorages.		
e. Prestressing technique.		
f. Properties of thin-bed mortar for AAC masonry.		

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MASONRY LEVEL B INSPECTION TASK (Continued)	EXTENT OF SERVICE (Continuous or periodic)	AGENT
3. Prior to grouting, verify that the following are in compliance:		
a. Grout space.		
b. Grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and		
c. Placement of reinforcement, connectors, and prestressing tendons and anchorages.		
d. Proportions of site-prepared grout and prestressing grout for bonded tendons.		
e. Construction of mortar joints.		
4. Verify during construction:		
a. Size and location of structural elements.		
b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction.		
c. Welding of reinforcement.		
d. Preparation, construction, and protection of masonry during cold weather (temperature below 40 degrees F) or hot weather (temperature above 90 degrees F).		
e. Application and measurement of prestressing force.		
f. Placement of grout and prestressing grout for bonded tendons is in compliance.		
g. Placement of AAC masonry units and construction of thin-bed mortar joints.		
5. Observe preparation of grout specimens, mortar specimens, and/or prisms.		
MASONRY LEVEL C QUALITY ASSURANCE		
Masonry construction shall be inspected in accordance with TMS 402/ACI 530/ ASCE 5 (Table 3.1.3) and TMS 602/ACI 530.1/ ASCE 6 (Table 5) Quality Assurance Program requirements		
MINIMUM TESTS		
Verification of f'_m and f'_{aac} in accordance with TMS 602/ACI 530.1/ASCE 6 Specification Article 1.4 B prior to construction and for every 5000 square feet during construction.		

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MASONRY LEVEL C QUALITY ASSURANCE (Continued)

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.

Verification of Slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with TMS 602/ACI 530.1/ASCE 6 Specification Article 1.5 B.1.b.3 for self-consolidating grout.

MINIMUM SPECIAL INSPECTIONS

INSPECTION TASK	EXTENT OF SERVICE (Continuous or periodic)	AGENT
1. Verify compliance with the approved submittals.		
2. Verify that the following are in compliance:		
a. Proportions of site mixed mortar, grout and prestressing grout for bonded tendons.		
b. Grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and		
c. Placement of masonry units and construction of mortar joints.		
d. Placement of reinforcement, connectors, and prestressing tendons and anchorages.		
e. Grout space prior to grouting.		
f. Placement of grout and prestressing grout for bonded tendons.		
g. Size and location of structural elements.		
h. Type, size, and location of anchors including other details of anchorage of masonry to structural members, frames, or other construction.		
i. Welding of reinforcement.		
j. Preparation, construction, and protection of masonry during cold weather (temperature below 40 degrees F) or hot weather (temperature above 90 degrees F).		
k. Application and measurement of prestressing force.		
l. Placement of AAC masonry units and construction of thin-bed mortar joints.		
m. Properties of thin-bed mortar AAC masonry.		
3. Observe preparation of grout specimens, mortar specimens, and/or prisms.		

WOOD CONSTRUCTION Reference: IBC Section 1705.5	EXTENT OF SERVICE (Continuous or periodic)	AGENT
Special Inspections of prefabricated wood structural elements and assemblies shall be in accordance with Section 1704.2.5. (The exceptions of Section 1704.2.5 and the requirements of IBC Section 1704.2.5.1 may apply subject to City of Rock Hill approval).		
Special Inspection of site built assemblies shall be in accordance with IBC Section 1705.5		
SOILS Reference: IBC Section 1705.6, IBC Table 1705.6		
Required Special Inspections and Tests of Soils Reference: IBC Table 1705.6	EXTENT OF SERVICE (Continuous or periodic)	AGENT
1. Verify materials below shallow foundations are adequate to achieve the design bearing	Continuous.	
2. Verify excavations are extended to proper depth and have reached proper material.		
3. Perform classification and testing of compacted fill materials.		
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.		
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.		
DRIVEN DEEP FOUNDATION ELEMENTS Reference: IBC Section 1705.7, IBC Table 1705.7		
Required Special Inspections and Tests of Driven Deep Foundation Elements Reference: IBC Table 1705.7	EXTENT OF SERVICE (Continuous or periodic)	AGENT
1. Verify element materials, sizes and lengths comply with the requirements.		
2. Determine capacities of test elements and conduct additional load tests, as required.		
3. Inspect driving operations and maintain complete and accurate records for each element.		
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.		

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Required Special Inspections and Tests of Driven Deep Foundation Elements (Continued) Reference: IBC Table 1705.7	EXTENT OF SERVICE (Continuous or periodic)	AGENT
5. For steel elements, perform additional special inspections in accordance with IBC Section 1705.2		
6. For concrete elements and concrete-filled elements, perform tests and additional inspections in accordance with IBC Section 1705.3		
7. For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge.		
CAST-IN-PLACE DEEP FOUNDATIONS		
Reference: IBC Section 1705.8, IBC Table 1705.8		
Required Special Inspections and Tests of Cast-in-Place Deep Foundation Elements Reference: IBC Table 1705.8	EXTENT OF SERVICE (Continuous or periodic)	AGENT
1. Inspect drilling operations and maintain complete and accurate records for each element.		
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.		
3. For concrete elements, perform tests and additional Special inspections in accordance with IBC Section 1705.3		
HELICAL PILE FOUNDATIONS		
Reference: IBC Section 1705.9		
SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE		
Reference: IBC Section 1705.12 and Table below		
A. Structural Steel Reference: IBC Section 1705.12.1 and the Quality Assurance Requirements of AISC 341-10	EXTENT OF SERVICE (Continuous or periodic)	AGENT
1. Seismic Force-Resisting Systems Reference: IBC Section 1705.12.1.1		
2. Structural Steel Elements Reference: IBC Section 1705.12.1.2		

(Continued)

SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE (Continued)	EXTENT OF SERVICE (Continuous or periodic)	AGENT
B. Structural Wood Reference: IBC Section 1705.12.2		
C. Cold-Formed Steel Light-Frame Construction Reference: IBC Section 1705.12.3		
D. Designated Seismic Systems Reference: IBC Section 1705.12.4 and Section 13.2.2 of ASCE 7-10		
E. Plumbing, Mechanical and Electrical Components Reference: IBC Section 1705.12.6		
F. Seismic Isolation Systems Reference: IBC Section 1705.12.8		
TESTING FOR SEISMIC RESISTANCE		
Reference IBC Section 1705.13 and Table below		
A. Structural Steel Reference: IBC Section 1705.13.1 and the Quality Assurance Requirements of AISC 341-10	EXTENT OF SERVICE (Continuous or periodic)	AGENT
1. Seismic Force-Resisting Systems Reference: IBC Section 1705.13.1.1		
2. Structural Steel Elements Reference: IBC Section 1705.13.1.2		
B. Nonstructural Components Reference: IBC Section 1705.13.2 and Section 13.2.1 of ASCE 7-10		
C. Designated Seismic Systems Reference: IBC Section 1705.13.3 and Section 13.2.2 of ASCE 7-10		
D. Seismic Isolation Systems Reference: IBC Section 1705.13.4 and Section 17.8 of ASCE 7-10		

SPRAYED FIRE-RESISTANT MATERIALS Reference: IBC Section 1705.14	EXTENT OF SERVICE (Continuous or periodic)	AGENT
1. Special Inspections and Tests Required: a. Condition of substrates. b. Thickness of application. c. Density in pounds per cubic foot. d. Bond strength adhesion/cohesion. e. Condition of finished application.		
	EXTENT OF SERVICE (Continuous or periodic)	AGENT
MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS Reference: IBC Section 1705.15		
EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS). Reference: IBC Sections 1705.16 and 1705.16.1		
FIRE-RESISTANT PENETRATIONS AND JOINTS Reference: IBC Section 1705.17	EXTENT OF SERVICE (Continuous or periodic)	AGENT
1. Penetration Firestops Reference : IBC Section 1705.17.1		
2. Fire-Resistant Joint Systems Reference: IBC Section 1705.17.2		
TESTING FOR SMOKE CONTROL Reference: IBC Section 1705.18	EXTENT OF SERVICE (Continuous or periodic)	AGENT
Smoke control systems shall be tested by a specialty inspector registered in the state of South Carolina. Qualifications of Approved Agencies for smoke control testing shall meet the requirements of IBC Section 1705.18.2. The tests shall be witnessed and accepted by the Mechanical Inspector for the project.		