ACEC/SEAOG SI GL 01-2024

Georgia Special Inspections Guidelines

In Accordance with the

2024 International Building Code

ACEC

American Council of Engineering Companies

of Georgia

Georgia Special Inspections Guidelines

PREFACE

The ***Georgia Special Inspections Guidelines*** are intended to assist all parties involved in building projects in Georgia to successfully comply with the special inspections requirements of the ***Georgia State Minimum Standard Building Code***, (***2024 International Building Code*** in conjunction with ***Georgia State Amendments***), hereafter referred to as the ***Building Code***. These parties include owners, building officials, design professionals, contractors and special inspectors. This consensus document is the product of the parties listed below, public review and public hearings.

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Acknowledgments:

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Georgia Department of Community Affairs, Chapter 17 Task Force
Georgia State Financing and Investment Commission
Building Officials Association of Georgia

Disclaimer and Notice:

While the information presented in the report is believed to be correct, SEAOG and ACEC/G assume no responsibility for its accuracy or for the opinions expressed herein. The material presented in this publication should not be used or relied upon for any specific application without competent examination and verification of its accuracy, suitability, and applicability by qualified professionals. Users of information from this publication assume all liability arising from such use.

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FORWARD

On September 12, 2001, the State of Georgia Board of Community Affairs, under the provisions of the Uniform Codes Act, updated the Georgia Standard Codes by approval of the 2000 edition of the ***Standard Building Code*** (***2000 International Building Code****)* with ***Georgia Amendments***. The effective date for the ***Building Code*** was January 1, 2002. This introduced *Special Inspection and Testing*, under Chapter 17, as a ***Building Code*** requirement for the first time in Georgia.

The Board of Community Affairs creates a Task Force to review the ***International Building Code*** Chapter 17, "Structural Tests and Special Inspections" and the related Georgia Amendments approximately every six years. This update to the ***Guidelines*** aligns ACEC/SEAOG SI GL with the 2024 International Building Code's Chapter 17 and the 2026 Georgia Amendments requiring special inspection of Metal Building Systems under the new provisions of 1705.2.6.

ACEC/SEAOG SI GL 01–2024, ***Georgia Special Inspections Guidelines*** assists *all* parties involved in building projects, owners, building officials, design professionals, contractors and special inspectors, in Georgia to successfully comply with the special inspections requirements of the ***Building Code***.

Special Inspections is the monitoring of the materials and workmanship critical to the integrity of the building structure. It is a review of the work of the contractors and their employees to ensure that the approved plans and specifications are being followed and that the relevant codes and referenced standards are being observed. The Special Inspection process is *in addition* to the inspections conducted by the Building Official or authority having jurisdiction, Structural Observation by the Design Professional, tests or inspections required by the Construction Documents, and the contractor's quality assurance/ quality control. The Building Official approves qualified, independent agents with special expertise to perform Special inspections and tests.

Special Inspections per ***Building Code*** Section 1704 are required to be provided on all professionally designed projects not meeting the exception for certain residential occupancies.

As part of the general requirements Section 1704 of the ***Building Code*** Special Inspections, a *Statement of Special Inspections* (which includes a *Schedule of Special Inspections Services*) prepared by the Registered Design Professional in Responsible Charge shall be submitted to the Building Official at the time of permit application. The Registered Design Professional for special inspections is typically the Structural Engineer or the Architect. Often the Architect will take input from the Structural, Mechanical and Electrical Engineers and act as the overall Registered Design Professional in Responsible Charge of preparing and submitting the *Statement of Special Inspections*.

In accordance with Section 1704 of the ***Building Code*** the *Statement of Special Inspections*, utilizing a *Schedule of Special Inspections Services,* shall include the following items:

1. The materials, systems, components and work required to have special inspection or testing by the building official or by the registered design professional responsible for each portion of the work.
2. The type and extent of each special inspection.
3. The type and extent of each test.

4. Additional requirements for special inspection or testing for seismic or wind resistance as specified in Section 1705.12, 1705.13, and 1705.14.
5. For each type of special inspection, identification as to whether it will be continuous special inspection or periodic special inspection.

Under certain high seismic and wind conditions the *Statement of Special Inspections* shall also include additional special inspection and testing requirements for seismic and/or wind resistance as required by the ***Building Code*** Sections 1705.12, 1705.13, and 1705.14. Once engaged for a project, each contractor responsible for the construction of a seismic or wind resistant system or component listed in the *Statement of Special Inspections* shall submit a written statement of responsibility to the building official and to the owner prior to the commencement of work on the system or component.

The *Schedule of Special Inspections Services* must be maintained during a construction project and reflect any changes as the project progresses. For example, the Schedule shall be revised if a Special Inspection Agency changes during the course of the construction or if a change in a building material or technique requires a change in the Special Inspections requirements.

Structural Observations by a registered structural design professional shall also be provided where required by ***Building Code*** Section 1704.6 for the conditions listed in 1704.6.1.

At the completion of work and prior to issuing the Certificate of Occupancy, a *Final Report of Special Inspections* in accordance with ***Building Code*** Section 1704.2.4 shall be submitted to the Building Official. This report shall document the completion of all required special inspections and testing.

This Guideline describes the responsibilities and provides forms for all phases and all parties of the Special Inspection process.

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SPECIAL INSPECTIONS RESPONSIBILITIES

Owner Responsibilities:

The Owner or the Registered Design Professional in Responsible Charge (hereafter referred to as the Design Professional) acting as the Owner's agent shall:

1. Engage the Special Inspector(s)
2. Submit to the Building Official a list of the individuals, approved agencies or firms intended to be retained for conducting special inspections.

Design Professional in Responsible Charge Responsibilities:

The Design Professional shall:

1. Where engaged as the Owner's Agent, perform the duties noted above.
2. Prepare the Special Inspection program with the assistance of the structural engineer of record.
3. Submit to the Building Official the Statement of Special Inspections, which shall include the Schedule of Special Inspections Services.
4. Respond to identified field discrepancies.

Building Official or Authority Having Jurisdiction Responsibilities:

The Building Official shall:

1. Obtain a *Statement of Special Inspections* prior to issuance of building permit.
2. Obtain a list of the individuals, agencies or firms intended to be retained for conducting special inspections.
3. Approve qualified special inspectors, firms and agencies in accordance with the ***Building Code***.
4. Determine if fabricators qualify as *approved fabricators* in accordance with ***Building Code*** section1704.2.5.1 and the 2026 Georgia State Amendments, Table 2.4.
5. Obtain Special Inspections interim reports, certificates, and statements of responsibility.
6. Obtain a *Final Report of Special Inspections* prior to issuance of a Certificate of Occupancy.

Special Inspectors Responsibilities:

The Special Inspectors shall:

1. Notify the contractor of their presence and responsibilities at the job site.
2. Observe assigned work for which they are responsible for conformance with the plans and specifications.
3. Report nonconforming items to the immediate attention of the contractor for correction.
4. Write a discrepancy report about each nonconforming item containing:
    a. Description and exact location.
    b. Reference to applicable drawings and specifications.
    c. Resolution or corrective action taken and the date.
5. Provide timely reports in a daily format and furnish these reports directly to the Design Professional and the contractor. The reports should:
    a. Describe the special inspection and tests performed, with locations.
    b. Indicate nonconforming items and their resolution.
    c. List unresolved items and parties notified.
    d. Itemize any changes authorized by the Design Professional.

6. Initial and date the “Date Completed” box in the *Schedule of Special Inspections Services* as the inspection and testing activities are completed.
7. Submit a final signed report stating that all required special inspections and testing were fulfilled and reported and that any outstanding discrepancies have been corrected.

Contractor/Construction Manager/Design Builder Responsibilities:

1. Submit a *Statement of Responsibility* where required by the *Statement of Special Inspections*.
2. Notify the Special Inspector(s) when special inspections are needed.
3. Coordinate the scheduling and timely notification of the specific individuals needed for the Special Inspection.
4. Provide direct access to the approved plans and specifications for the project.
5. Submit *Fabricator’s Certificates of Compliance* for approved fabricators.
6. Provide safe access to the work to be inspected and deliver samples for testing when needed.

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SPECIAL INSPECTIONS STEP-BY-STEP TIMELINE

The following is a suggested timeline for a project with special inspections. Some elements may not be applicable to all projects.

1. The Design Professional shall prepare the Special Inspections program with the assistance of the structural engineer of record.

2. The Owner or the Design Professional in Responsible Charge acting as the Owner's agent shall engage the Special Inspector(s).

3. The Design Professional shall submit to the Building Official the *Statement of Special Inspections*, which shall include the *Schedule of Special Inspections Services*. Where required the *Statement of Special Inspections* shall include additional special inspections and testing requirements for seismic and/or wind resistance.

4. The Owner or the Design Professional acting as the Owner's agent shall submit to the Building Official a list of the individuals, approved agencies or firms intended to be retained for conducting special inspections.

5. The Building Official shall approve the qualifications of the Special Inspectors and agencies in accordance with the ***Building Code*** ***and the Georgia State Amendments***.

6. Where required by the *Statement of Special Inspections*, each contractor responsible for the construction or fabrication of a system or component described in the *Requirements for Wind* or *Seismic Resistance* shall submit a *Statement of Responsibility*.

7. The Contractor shall notify the Special Inspector(s) when the work is ready for inspection.

8. The Special Inspector(s) shall inspect the work per the *Schedule of Special Inspections Services* and provide a daily report detailing the inspection and any deficiencies. The Special Inspector(s) shall issue interim reports to the Design Professional and the Building Official as noted in the *Statement of Special Inspections.*

9. The Design Professional shall, as needed, respond to any discrepancies identified by the Special Inspector(s).

10. Each approved fabricator that is exempt from Special Inspection of shop fabrication and implementation procedures per section 1704.2.5.1 of the ***Building Code*** must submit *Fabricator's Certificate of Compliance* at the completion of fabrication.

11. The Contractor shall remedy deficient work as construction progresses and prior to final inspection.

12. The Contractor shall submit *Fabricator's Certificates of Compliance* for approved fabricators.

13. The Special Inspector(s) shall prepare and sign a *Final Report of Special Inspection*s at the completion of the project.

14. The Building Official shall not issue a Certificate of Occupancy until the *Final Report of Special Inspections* has been issued for that phase of the work.

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SPECIAL INSPECTIONS PROGRAM INSTRUCTIONS

The following are general requirements and instructions for processing the Special Inspection Program forms.

Overview:
The program consists of three primary forms that shall be filled out and submitted to the Building Official. The *Statement of Special Inspections* and the *Schedule of Special Inspections Services* forms are submitted for review prior to permit issuance. These documents shall be maintained in a central location at the project site. The *Schedule of Special Inspections Services* will need to be accessed on a regular basis by the special inspector(s) for the project. The *Final Report of Special Inspections* is submitted at the completion of construction. Several other forms that may be utilized are also included.

Statement of Special Inspections:
This form provides the general project information. It identifies the project location, the project architect, the project structural engineer, and the registered design professional in responsible charge, referred to in the forms and hereafter as the Design Professional. Depending on the project organization, the Design Professional could be the project architect, a project engineer, or an independent third party representing the Owner. In accordance with section 1704.2 of the ***Building Code***, the Design Professional is responsible for preparation of the special inspection program and would complete the "Prepared by" section of this form.

This form establishes the frequency interim reports should be furnished. For complex projects, the Design Professional, or Building Official may attach a separate schedule listing the required report frequency. Additionally, the Building Official can request reports at a different frequency than the Design Professional. A copy of this form should be kept at the project site with the *Schedule of Special Inspection Services.*

For large projects that are divided into multiple bid packages (foundation package, structural frame package, building package, etc.) the special inspection program may be submitted with each partial bid package would only contain the special inspection requirements for the scope of work associated with that bid package at the Building Official's preference.

Schedule of Special Inspections Services:
This form provides a detailed and itemized list of which special inspection activities are required for the specific project and which individuals, firm, or agency will be performing the special inspection services associated with each required task. The project title should be inserted at the top of the form. The form lists the various tasks required by Chapter 17 of the ***Building Code*** and provides a column for the Design Professional to identify with a "yes" or "no" which items apply to the specific project.

The "Extent" column is where the Design Professional can provide additional information or detail regarding the scope of the special inspections. This column identifies which items require continuous inspection and which require periodic inspections as defined by the ***Building Code***. For periodic inspections, the frequency of inspections can be identified here, or it could be included in the project construction documents. Exceptions to a special inspections task may be noted in this column. Special instructions regarding how to perform inspections may also be included here. For more

complex projects, this may be addressed by referring to another project document, such as the project specifications. Where IBC Chapter 17 references specific material codes for Special Inspections, the nomenclature for these inspections now matches the material code. Please see the material code for the definitions of the nomenclature used.

Multiple special inspectors may exist on one project. For example, a testing agency may perform the special inspection duties associated with testing welds, a registered structural engineer may perform special inspection duties associated with inspecting steel connections for conformance with the Construction Documents, and an architect may perform the special inspection duties associated with construction of the EIFS system. The multiple special inspectors are identified and numbered at the end of the form. The number next to the individual, firm, or agency's name would be listed in the schedule under the column heading "Agent" for the task that individual, firm, or agency will perform. In some instances, it may be desirable to have more than one special inspector involved in the same task. In this instance, the numbers for both parties would be listed adjacent to that task.

Minimum qualifications for each type of inspection and test are included in the *Georgia Amendments* to the ***Building Code***. In cases where the complexity of the inspection or testing activity warrants additional expertise, the Design Professional may specify more stringent qualifications. For example, inspection by a structural engineer may be specified for complex concrete reinforcing steel.

The only column not filled in on the schedule at the time it is submitted should be the "Completed" column. When an individual special inspection task in the schedule is completed for the last time on the project and the special inspector performed their final review, inspection, or test of that item for the project, the special inspector shall initial and date the cell in the "Completed" column adjacent to the task. At the conclusion of the project, a copy of the *Schedule of Special Inspections Services* form with the initials and date in the "Completed" column for each task relevant to the project shall be submitted to the Design Professional and the Building Official with the *Final Report of Special Inspections.*

Projects requiring special *Requirements for Seismic and/or Wind Resistance* should be identified at the end of the form for cross reference to the *Statement of Special Inspections*.

A commentary with specific requirements for each *Material / Activity* in the *Schedule* is included for assistance in completing the inspection program.

Final Report of Special Inspections:

This form is submitted when all the special inspections requirements for a project have been fulfilled. Each special inspector corresponding to an agent number in the *Schedule of Special Inspection Services* will be required to complete a copy of this form for submittal to the Design Professional and the Building Official for their scope of work. The special inspections program will not be considered complete until forms from all agents have been submitted and received.

STATEMENT OF SPECIAL INSPECTIONS

PROJECT: _____

LOCATION: _____

PERMIT APPLICANT: _____

APPLICANT'S ADDRESS: _____

ARCHITECT OF RECORD: _____

STRUCTURAL ENGINEER OF RECORD: _____

MECHANICAL ENGINEER OF RECORD: _____

ELECTRICAL ENGINEER OF RECORD: _____

REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE: _____

This Statement of Special Inspections is submitted in accordance with Section 1704.3 of the 2024 International Building Code. It includes a *Schedule of Special Inspections Services* applicable to the above-referenced Project as well as the identity of the individuals, agencies, or firms intended to be retained for conducting these inspections. If applicable, it includes *Special Inspections for Seismic Resistance* and/or *Special Inspections for Wind Resistance*.

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

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

The Special Inspector(s) shall keep records of all inspections and shall furnish interim inspection reports to the Building Official and to the Registered Design Professional in Responsible Charge at a frequency agreed upon by the Design Professional and the Building Official prior to the start of work. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge prior to completion of that phase of work. A *Final Report of Special Inspections* documenting required special inspections and corrections of any discrepancies noted in the inspections shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge at the conclusion of the project.

Frequency of interim report submittals to the Registered Design Professional in Responsible Charge:

__Weekly __Bi-Weekly __Monthly Other; specify:_____

The Special Inspection program does not relieve the Contractor of the responsibility to comply with the Contract Documents. Jobsite safety and means and methods of construction are solely the responsibility of the Contractor.

Statement of Special Inspections Prepared by:

Preparer's Seal

_____
Type or print name

_____
Signature Date

Building Official's Acceptance:

_____
Signature Date

Permit Number:

Frequency of interim report submittals to the Building Official:

__Monthly __Bi- Monthly __Upon Completion Other; specify:_____

Special Inspections for Seismic Resistance

See the Schedule of Special Inspections for inspection and testing requirements

Seismic Design Category: ____

Special Inspections for Seismic Resistance Required (Yes/No): _____

Description of seismic force-resisting system subject to special inspection and testing for seismic resistance:
(Where required per IBC Sections 1705.13.1, 1705.13.2, and 1705.13.3) (Special inspections for seismic resistance of structural steel, where required, shall be in accordance with AISC 341)

Description of designated seismic systems subject to special inspection and testing for seismic resistance:
(Required for architectural, electrical and mechanical systems and their components that require design in accordance with Chapter 13 of ASCE 7, have a component importance factor, *Ip*, greater than one and are in Seismic Design Categories C, D, E or F.)

Description of additional seismic systems and components requiring special inspections:
(Required for systems noted in IBC Section 1705.13.5, 1705.13.6, 1705.13.7, 1705.13.8, and 1705.13.9.)

Description of additional seismic systems and components requiring testing:
(Where required per IBC Section 1705.14)

Statement of Responsibility:
Each contractor responsible for the construction or fabrication of a system or component described above must submit a Statement of Responsibility.

Special Inspections for Wind Resistance

See the Schedule of Special Inspections for inspection and testing requirements

Basic Wind Speed, V: _____m.p.h.

Wind Exposure Category: _____

Special Inspection for Wind Resistance Required (Yes/No): _____
(Required in wind exposure Category B, where the basic wind speed, V, is 150 miles per hour or greater. Required in wind exposure Category C or D, where the basic wind speed, V, is 140 miles per hour or greater.)

Description of structural wood and cold-formed steel light frame construction main windforce-resisting system subject to special inspections for wind resistance:
(Required for systems noted in IBC Section 1705.12.1 and 1705.12.2).

Description of windforce-resisting components subject to special inspections for wind resistance:
(Required for systems and components noted in IBC Section 1705.12.3)

Statement of Responsibility:
Each contractor responsible for the construction or fabrication of a system or component described above must submit a Statement of Responsibility.

FINAL REPORT OF SPECIAL INSPECTIONS

PROJECT: _____

LOCATION: _____

PERMIT APPLICANT: _____

APPLICANT'S ADDRESS: _____

_____

ARCHITECT OF RECORD: _____

STRUCTURAL ENGINEER OF RECORD: _____

MECHANICAL ENGINEER OF RECORD: _____

ELECTRICAL ENGINEER OF RECORD: _____

REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE: _____

To the best of my information, knowledge, and belief, which are based upon observations or diligent supervision of our inspection services for the above-referenced Project, I hereby state that the special inspections or testing required for this Project and designated for this Agent in the *Schedule of Special Inspection Services*, have been completed in accordance with the Contract Documents.

The Special Inspection program does not relieve the Contractor of the responsibility to comply with the Contract Documents. Jobsite safety and means and methods of construction are solely the responsibility of the Contractor.

Interim reports submitted prior to this final report and numbered___to___form a basis for and are to be considered an integral part of this final report. The following discrepancies that were outstanding since the last interim report dated _____ have been corrected:

_____

_____

_____

_____

_____

(Attach 8 ½"x11" continuation sheet(s) if required to complete the description of corrections)

Prepared By:

_____
Special Inspection Agent/Firm

_____
Type or print name

_____
Signature Date

SCHEDULE OF SPECIAL INSPECTIONS SERVICES					
PROJECT					
		APPLICABLE TO THIS PROJECT			
MATERIAL / ACTIVITY	**SERVICE**	**Y/N**	**EXTENT**	**AGENT***	**DATE COMPLETED**
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 - add additional rows as needed.)	Submittal review, shop (3) and/or field inspection				
1. Inspection of anchors post-installed in solid grouted masonry: Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, masonry unit, grout, masonry compressive strength, anchor embedment and tightening torque	Field inspection		Periodic or as required by the research report issued by an approved source		
2. Aggregate Pier Inspection: The special inspector's responsibilities include, but are not limited to, review of the aggregate pier designer's use of soil parameters as presented in the project soils report, and during construction, verification of aggregate properties, type and number of lifts of aggregate, hole size and depths and top elevations of the pier elements, and applied energy. Additionally, results of qualitative tests on production aggregate pier elements such as modulus load testing, uplift pull-out testing, bottom stabilization tests and dynamic cone penetration tests, shall be reviewed to verify compliance with design specifications.	Field inspection		Periodic or as required by the research report issued by an approved source		
1705.2.1 Structural Steel Construction					
1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, Section N 3.2 for compliance with construction documents)	Submittal Review		Each submittal		
2. Material verification of structural steel	Shop (3) and field inspection		Periodic		
3. 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 N5.4-2)	Shop (3) and field inspection		Observe or Perform as noted (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:					
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) 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		
4) Fabricator's NDT reports when fabricator performs NDT	Verify reports		Each submittal (5)		
4. Structural steel bolting:	Shop (3) and field inspection				
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		

SCHEDULE OF SPECIAL INSPECTIONS SERVICES					
PROJECT					
		APPLICABLE TO THIS PROJECT			
MATERIAL / ACTIVITY	**SERVICE**	**Y/N**	**EXTENT**	**AGENT***	**DATE COMPLETED**
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)		
5. Visual inspection of exposed cut surfaces of galvanized structural steel main members and exposed corners of the rectangular HSS for cracks subsequent to galvanizing	Shop (3) or field inspection		Periodic		
6. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)	Field inspection		Periodic		
7. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents	Field inspection		Periodic		
1705.2.2 Structural Stainless Steel Construction					
1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 370, Section N 3.2 for compliance with construction documents)	Submittal Review		Each submittal		
2. Material verification of structural stainless steel	Shop (3) and field inspection		Periodic		
3. Structural stainless steel welding:					
a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 370, 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 370, Table N5.4-2)	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 370, Table N5.4-3)	Shop (3) and field inspection		Observe or Perform as noted (4)		
d. Nondestructive testing (NDT) of welded joints:					
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) Welded joints subject to fatigue when required by AISC 370, Appendix 3, Table A-3.1	Shop (3) or field radiographic or Ultrasonic testing		Periodic		
4) Fabricator's NDT reports when fabricator performs NDT	Verify reports		Each submittal (5)		
4. Structural stainless steel bolting:	Shop (3) and field inspection				
a. Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in accordance with QA tasks listed in AISC 370, Table N5.6-1)			Observe or Perform as noted (4)		
b. Inspection tasks During Bolting (Observe the QA tasks listed in AISC 370, 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 370, Table N5.6-3)			Perform (4)		
5. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)	Field inspection		Periodic		
6. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents	Field inspection		Periodic		

SCHEDULE OF SPECIAL INSPECTIONS SERVICES					
PROJECT					
		APPLICABLE TO THIS PROJECT			
MATERIAL / ACTIVITY	**SERVICE**	**Y/N**	**EXTENT**	**AGENT***	**DATE COMPLETED**
1705.2.3 Cold-Formed Steel Deck					
1. Manufacturer documents (Verify reports and certificates as listed in SDI QA/QC, Section B, Paragraphs B1 and B2 for compliance with construction documents)	Submittal Review		Each submittal		
2. Material verification of steel deck, mechanical fasteners and welding materials	Shop (3) and field inspection		Periodic		
3. Cold-formed steel deck placement:	Shop (3) and field inspection				
a. Inspection tasks Prior to Deck Placement (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.1)			Perform (4)		
b. Inspection tasks After Deck Placement (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.2)			Perform (4)		
4. Cold-formed steel deck welding:	Shop (3) and field inspection				
a. Inspection tasks Prior to Welding (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.3)			Observe (4)		
b. Inspection tasks During Welding (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.4)			Observe (4)		
c. Inspection tasks After Welding (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.5)			Perform (4)		
5. Cold-formed steel deck mechanical fastening:	Shop (3) and field inspection				
a. Inspection tasks Prior to Mechanical Fastening (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.6)			Observe (4)		
b. Inspection tasks During Mechanical Fastening (Observe the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.7)			Observe (4)		
c. Inspection tasks After Mechanical Fastening (Perform the QA tasks listed in SDI QA/QC, Appendix 1 Table 1.8)			Perform (4)		
1705.2.4. Open-Web Steel Joists and Joist Girders					
1. Installation of open-web steel joists and joist girders.					
a. End connections - welding or bolted.	per SJI CJ or SJI 100		Periodic		
b.. Bridging - horizontal or diagonal.					
1) Standard bridging.	per SJI CJ or SJI 100		Periodic		
2) Bridging that differs from the specifications listed in SJI CJ or SJI 100.			Periodic		
1705.2.5. Cold-Formed Steel 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		
1705.2.6. Metal Building Systems					
Inspections as listed above in 1705.2.1, 1705.2.3, 1705.2.4 and 1705.2.5.					
1. Installation of rafter/beam flange braces and column flange braces.	Field inspection		Periodic		
2. Installation of purlins and girts, including specified lapping.			Periodic		
3. Purlin and girt restraint/bridging/bracing.			Periodic		
4. Installation of X-bracing, tightened to remove any sag.			Periodic		
1705.3 Concrete Construction					
1. Inspect reinforcement, including prestressing tendons, and verify placement.	Shop (3) and field inspection		Periodic		
2. Reinforcing bar welding:					
a. Verification of weldability of bars other than ASTM A706.	Shop (3) and field inspection		Periodic		
b. Inspect welding of reinforcement for special moment frames, boundary elements of special structural walls and coupling beams.	Shop (3) and field inspection		Continuous		
c. Inspect welded reinforcement splices.	Shop (3) and field inspection		Continuous		
d. Inspect welding of primary tension reinforcement in corbels.	Shop (3) and field inspection		Continuous		
e. Inspection of single-pass fillet welds 5/16 or less in size.	Shop (3) and field inspection		Periodic		

SCHEDULE OF SPECIAL INSPECTIONS SERVICES					
PROJECT					
		APPLICABLE TO THIS PROJECT			
MATERIAL / ACTIVITY	**SERVICE**	**Y/N**	**EXTENT**	**AGENT***	**DATE COMPLETED**
f. Inspection of all other welds.	Shop (3) and field inspection		Continuous		
3. Inspection of anchors cast in concrete.	Shop (3) and field inspection		Periodic		
4. Inspection of anchors post-installed in hardened concrete members per research reports, or, if no specific requirements are provided, requirements shall be provided by the registered design professional and approved by the building official, 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		
a. Adhesive anchors installed in horizontally or upwardly-inclined orientation that resist sustained tension loads.			Continuous		
b. Mechanical and adhesive anchors not defined in 4a.			Periodic		
5. Verify use of approved design mix	Shop (3) and field inspection		Periodic		
6.a. Prior to placement, fabricate specimens for strength tests, fresh concrete sampling, perform slump or slump flow, and air content density tests, and determine temperature of concrete.	Shop (3) and field inspection		Continuous		
6.b. Verify that concrete specimens for strength tests are maintained in the required initial curing and laboratory curing environment, and that the maximum and minimum temperatures during the initial curing period are reported.	Shop (3) and field inspection		Continuous		
7. Inspection of concrete and shotcrete placement for proper application techniques	Shop (3) and field inspection		Continuous		
8. Verify 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			Continuous		
10. Inspect erection of precast concrete members	Field inspection		Periodic		
11. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category C, D, E, or F, inspect such connections and reinforcement in the field for:	Field inspection				
a. Installation of the embedded parts.			Continuous		
b. Completion of the continuity of reinforcement across joints.			Continuous		
c. Completion of connections in the field.			Continuous		
12. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	Field inspection		Periodic		
13. Verify 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		
14. Inspection of formwork for shape, lines, location and dimensions	Field inspection		Periodic		
15. Concrete strength testing and verification of compliance with construction documents	Field testing and review of laboratory reports		Periodic		
1705.4 Masonry Construction					
MINIMUM VERIFICATION REQUIREMENTS					
(A) Level 1, 2 and 3 Quality Assurance:					
1. Prior to construction, verification of compliance of submittals	Submittal Review		Prior to Construction		
(B) Level 2 & 3 Quality Assurance:					
1. Prior to construction verification of f'm and f'_{AAC} except where specifically exempted by the code	Testing by unit strength method or prism test method		Prior to Construction		
2. During construction, verification of Slump Flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to project site.	Testing by unit strength method or prism test method		Periodic		

SCHEDULE OF SPECIAL INSPECTIONS SERVICES					
PROJECT					
		APPLICABLE TO THIS PROJECT			
MATERIAL / ACTIVITY	**SERVICE**	**Y/N**	**EXTENT**	**AGENT***	**DATE COMPLETED**
(C) Level 3 Quality Assurance:					
1. During construction, verification of f'm and f'_{AAC} for every 5,000 SF	Testing by unit strength method or prism test method		Periodic		
2. During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout.	Field inspection		Periodic		
MINIMUM SPECIAL INSPECTION REQUIREMENTS					
(D) Levels 2 and 3 Quality Assurance:					
1. As masonry construction begins, verify that the following are in					
a. Proportions of the site-prepared mortar	Field inspection		Periodic		
b. Grade and size of prestressing tendons and anchorages	Field Inspection		Periodic		
c. Grade, type, and size of reinforcement, anchor bolts, and prestressing tendons and anchorages	Field Inspection		Periodic		
d. Prestressing technique	Field Inspection		Periodic		
e. Properties of thin-bed mortar for AAC masonry (b) Required for the first 5,000 square feet (c) Required after the first 5,000 square feet	Field Inspection		Level 2 - Continuous[(b)] Level 2 - Periodic[(c)]		
			Level 3 - Continuous		
f. Sample panel construction	Field Inspection		Level 2 - Periodic		
			Level 3 - Continuous		
2. Prior to grouting, verify that the following are in compliance:					
a. Grout space	Field Inspection		Level 2 - Periodic		
			Level 3 - Continuous		
b. Placement of prestressing tendons and anchorages	Field Inspection		Periodic		
c. Placement of reinforcement, connectors, and anchor bolts	Field inspection		Level 2 - Periodic		
			Level 3 - Continuous		
d. Proportions of site-prepared grout and restressing grout for bonded tendons	Field Inspection		Periodic		
3. Verify compliance of the following during construction:					
a. Materials and procedures with the approved submittals	Field inspection		Periodic		
b. Placement of masonry units and mortar joint construction	Field Inspection		Periodic		
c. Size and location of structural members	Field inspection		Periodic		
d. Type, size, location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	Field inspection		Level 2 - Periodic		
			Level 3 - Continuous		
e. Welding of reinforcement	Field inspection		Continuous		
f. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F)	Field inspection		Periodic		
g. Application and measurement of prestressing force	Field testing		Continuous		
h. Placement of grout and prestressing grout for bonded tendons is in compliance	Field inspection		Continuous		
i. Placement of AAC masonry units and construction of thin-bed mortar joints (b) Required for the first 5,000 square feet (c) Required after the first 5,000 square feet	Field inspection		Level 2 - Continuous[(b)] Level 2 - Periodic[(c)]		
			Level 3 - Continuous		
4. Observe preparation of grout specimens, mortar specimens, and/or prisms	Field inspection		Level 2 - Periodic		
			Level 3 - Continuous		
1705.4.1 Glass Unit Masonry and Masonry Veneer in Risk Category IV.					
Inspect and test in accordance with TMS 602 Level 2	Field inspection		Periodic		
1705.5 Wood Construction					
1. For prefabricated wood structural elements, inspection of the fabrication process and assemblies in accordance with Section 1704.2.5.	In-plant review (3)		Periodic		

SCHEDULE OF SPECIAL INSPECTIONS SERVICES					
PROJECT					
		APPLICABLE TO THIS PROJECT			
MATERIAL / ACTIVITY	**SERVICE**	**Y/N**	**EXTENT**	**AGENT***	**DATE COMPLETED**
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:					
a. Verification that permanent individual truss member restraint/bracing has been installed in accordance with the approved truss submittal package when the truss height is greater than or equal to 60".	Field inspection		Periodic		
b. For 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		
1705.5.3 Mass Timber Construction (Types IV-A, IV-B, and IV-C Construction)					
1. Inspection of anchorage and connection of mass timber construction to timber deep foundation systems.	Field inspection		Periodic		
2. Inspect erection of mass timber construction.	Field inspection		Periodic		
3. Inspection of connections where installation methods are required to meet design loads.					
a. Threaded Fasteners					
1) Verify use of proper installation equipment.	Field inspection		Periodic		
2) Verify use of pre-drilled holes where required.	Field inspection		Periodic		
3) Inspect screws, including diameter, length, head type, spacing, installation angle, and depth.	Field inspection		Periodic		
b. Adhesive anchors installed in horizontal or upwardly inclined orientation to resist sustained tension loads.	Field inspection		Continuous		
c. Adhesive anchors not defined in preceding cell.	Field inspection		Periodic		
d. Bolted connections.	Field inspection		Periodic		
e. Concealed connections	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 compacted fill materials.	Field inspection		Periodic		
4. During fill placement, verify use of proper materials and procedures in accordance with the provisions of the approved geotechnical report. Verify densities and lift thicknesses during placement and compaction of compacted fill.	Field inspection		Continuous		
5. Prior to placement of controlled fill, inspect 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. Inspect 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		

SCHEDULE OF SPECIAL INSPECTIONS SERVICES					
PROJECT					
		APPLICABLE TO THIS PROJECT			
MATERIAL / ACTIVITY	**SERVICE**	**Y/N**	**EXTENT**	**AGENT***	**DATE COMPLETED**
6. For concrete elements and concrete-filled elements, perform tests and 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		
1705.8 Cast-in-Place Deep Foundations					
1.Inspect drilling operations and maintain complete and accurate records for each element	Field inspection		Continuous		
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 tests and additional inspections in accordance with Section 1705.3	See Section 1705.3		See Section 1705.3		
1705.9 Helical Pile Foundations					
Verify installation equipment, pile dimensions, tip elevations, final depth, final installation torque and other pertinent installation data as required by construction documents.	Field inspection		Continuous		
1705.10 Not Used					
1705.11 Fabricated items					
1. List of fabricated items requiring special inspection during fabrication:	Shop inspection		As noted in each applicable shop activity		
2. List of fabricated items to be fabricated on the premises of a fabricator approved to perform such work without special inspection (including name of approved agency providing periodic auditing):					
1705.12.1 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, including wood shear walls, wood diaphragms, drag struts, braces and hold-downs.	Shop (3) and field inspection		Periodic		
1705.12.2 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. Inspection of screw attachment, bolting, anchoring and other fastening of components within the main windforce-resisting system, including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs.	Shop (3) and field inspection		Periodic		
1705.12.3 Wind-resisting Components					
1. Roof covering, roof deck and roof framing connections.	Shop (3) and field inspection		Periodic		
2. Exterior wall covering and wall connections to roof and floor diaphragms.	Shop (3) and field inspection		Periodic		
1705.13.1 Structural Steel Special Inspections for Seismic Resistance					
1. Seismic force-resisting systems in SDC B, C, D, E, or F.	Shop (3) and field inspection		In accordance with AISC 341		
2. Structural steel elements in SDC B, C, D, E, or F other than those in Item 1. including struts, collectors, chords and foundation elements.	Shop (3) and field inspection		In accordance with AISC 341		
1705.13.2 Structural Wood Special Inspections for Seismic Resistance					
1. Field gluing operations of elements of the seismic-force resisting system for SDC C, D, E or F.	Field inspection		Continuous		
2. Nailing, bolting, anchoring and other fastening of elements of the seismic-force-resisting system including wood shear walls, wood diaphragms, drag struts, braces shear panels and hold-downs for SDC C, D, E or F.	Shop (3) and field inspection		Periodic		

SCHEDULE OF SPECIAL INSPECTIONS SERVICES					
PROJECT					
		APPLICABLE TO THIS PROJECT			
MATERIAL / ACTIVITY	**SERVICE**	**Y/N**	**EXTENT**	**AGENT***	**DATE COMPLETED**
1705.13.3 Cold-formed Steel Light-Frame Construction Special Inspections for Seismic Resistance					
1. During welding operations of elements of the seismic-force-resisting system for SDC C, D, E or F.	Shop (3) and field inspection		Periodic		
2. Screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs for SDC C, D, E or F.	Shop (3) and field inspection		Periodic		
1705.13.4 Designated Seismic Systems Verification Special Inspections for Seismic Resistance					
For SDC C, D, E or F, inspect and verify that that the label, anchorage and mounting conforms to the certificate of compliance in accordance with ASCE 7 Section 13.2.3.	Field inspection		Periodic		
1705.13.5 Architectural Components Special Inspections for Seismic Resistance					
1. For SDC D, E or F, inspection during the erection and fastening of exterior cladding and interior or exterior veneer more than 30 feet above grade or walking surface and weighing more than 5 psf.	Field inspection		Periodic		
2. For SDC D, E or F, inspection during the erection and fastening of interior nonbearing walls more than 30 feet above grade or walking surface and weighing more than 15 psf.	Field inspection		Periodic		
3. For SDC D, E or F, inspection during the erection and fastening of exterior nonbearing walls more than 30 feet above grade or walking surface.	Field inspection		Periodic		
4. For SDC D, E or F, inspection during anchorage of access floors	Field inspection		Periodic		
1705.13.6 Plumbing, Mechanical and Electrical Components Special Inspections for Seismic Resistance					
1. Inspection during the anchorage of electrical equipment for emergency or standby power systems in SDC C, D, E or F	Field inspection		Periodic		
2. Inspection during the anchorage of other electrical equipment in SDC E or F	Field inspection		Periodic		
3. Inspection during installation and anchorage of piping systems designed to carry hazardous materials, and their associated mechanical units in SDC C, D, E or F	Field inspection		Periodic		
4. Inspection during the installation and anchorage of HVAC ductwork designed to contain hazardous materials in SDC C, D, E or F	Field inspection		Periodic		
5. Inspection during the installation and anchorage of vibration isolation systems in SDC C, D, E or F where nominal clearance of 1/4 inch or less is required by the approved construction documents	Field inspection		Periodic		
6. Inspection during installation of mechanical and electrical equipment, including duct work, piping systems and their structural supports, where automatic fire sprinkler systems are installed in structures assigned to SDC C, D, E, or F to verify one of the following unless flexible sprinkler hose fittings are used:					
a. ASCE/SEI 7, Section 13.2.4 minimum required clearances have been provided.	Field inspection		Periodic		
b. A three inch or greater nominal clearance has been provided between fire protection sprinkler system drops and sprigs and: structural members not used collectively or independently to support the sprinklers; equipment attached to the building structure; and other systems' piping.	Field inspection		Periodic		
1705.13.7 Storage Racks Special Inspections for Seismic Resistance					
Inspection during the anchorage of storage racks 8 feet or greater in height in structures assigned to SDC D, E or F.	Field inspection				
1. Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents.	Field inspection		Periodic		
2. Fabricated storage rack elements.	Field inspection		Periodic		
3. Storage rack anchorage installation.	Field inspection		Periodic		

SCHEDULE OF SPECIAL INSPECTIONS SERVICES					
PROJECT					
		APPLICABLE TO THIS PROJECT			
MATERIAL / ACTIVITY	**SERVICE**	**Y/N**	**EXTENT**	**AGENT***	**DATE COMPLETED**
4. Completed storage rack system, to indicate compliance with the approved construction documents.	Field inspection		Periodic		
1705.13.8 Seismic Isolation Systems					
Inspection during the fabrication and installation of isolator units and energy dissipation devices used as part of the seismic isolation system in structures assigned to SDC B, C, D, E or F.	Shop and field inspection		Periodic		
1705.13.9 Cold-formed Steel Special Bolted Moment Frames					
Inspection of installation of cold-formed steel special bolted moment frames in the seismic force-resisting systems in structures assigned to SDC D, E or F.	Field inspection		Periodic		
1705.14.1 Structural Steel Testing for Seismic Resistance					
1. Nondestructive testing of structural steel in the seismic force-resisting systems in accordance with AISC 341 in structures assigned to SDC B, C, D, E, or F.	Field test		Periodic		
2. Nondestructive testing of structural steel elements in the seismic force-resisting systems not covered in Item 1 above, including struts, collectors, chords, and foundation elements in accordance with AISC 341 in structures assigned to SDC B, C, D, E, or F.	Field test		Periodic		
1705.14.2 Seismic Certification of Nonstructural Components					
1.Review certificate of compliance for non-structural components in structures assigned to SDC B, C, D, E, or F.	Certificate of compliance review		Each submittal		
1705.14.3 Seismic Certification of Designated Seismic Systems					
Review certificate of compliance for designated seismic system, subject to the requirements of ASCE 7, Section 13.2.4, as noted on the construction documents, in structures assigned to SDC C, D, E or F	Certificate of compliance review		Each submittal		
1705.14.4 Seismic Isolation Systems					
Test seismic isolation system in accordance with ASCE 7 Section 17.8 in structures assigned to SDC B, C, D, E or F.	Prototype testing		Per ASCE 7		
1705.15 Sprayed Fire-resistive Materials					
Special inspection shall be performed during construction with an additional visual inspection after the rough installation of electrical, sprinklers, mechanical and plumbing systems and suspension systems for ceilings, and before concealment where applicable.					
1. Verify surface condition preparation of structural members	Field inspection		Periodic		
2. Verify the substrate's minimum ambient temperature before and after application and note the ventilation of the area during and after application as required by the approved manufacturers' written instructions.	Field inspection		Periodic		
3. Verify minimum thickness of sprayed fire-resistant materials applied to structural members	Field inspection		Periodic		
4. Verify density of the sprayed fire-resistant material complies with approved fire-resistant design	Field inspection and testing		Per IBC Section 1705.15.5		
5. Verify the cohesive/adhesive bond strength of the cured sprayed fire-resistant material	Field inspection and testing		Per IBC Section 1705.15.6		
6. Condition of finished application	Field inspection		Periodic		

SCHEDULE OF SPECIAL INSPECTIONS SERVICES

PROJECT					
		APPLICABLE TO THIS PROJECT			
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT	AGENT*	DATE COMPLETED
1705.16 Intumescent Fire-Resistive Materials					
Special inspection shall be performed during construction with an additional visual inspection after the rough installation of electrical, sprinklers, mechanical and plumbing systems and suspension systems for ceilings, and before concealment where applicable.					
Inspect and test intumescent fire-resistive materials applied to structural elements and decks per AWCI 12-B	Field inspection and testing		Periodic		
1705.17 Exterior Insulation and Finish Systems (EIFS)					
Inspection of water-resistive barrier over sheathing substrate	Field inspection		Periodic		
1705.18 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		
1705.19 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		
1705.20 Sealing of Mass Timber Construction					
1. Inspect sealants and adhesives to resist passage of air in buildings of Type IV-A, IV-B, and IV-C..	Field testing				
a. At abutting edges and intersections of mass timber building elements required to be fire-resistance rated.	Field testing		Periodic		
b. At abutting intersections of mass timber building elements and building elements of other materials where both are required to be fire-resistance rated.	Field testing		Periodic		

* INSPECTION AGENTS FIRM	ADDRESS	TELEPHONE NO.
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. Shop Inspections of fabricated items are not required where the fabricator is approved in accordance with IBC Section 1704.2.5.1 and listed in activity 1705.11.2.

4. Observe: Observe on a random basis, operations need not be delayed pending these inspections. Perform: These tasks shall be performed 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, N6.

6. After-The-Fact Inspections: Any area(s) that have been covered without proper inspections shall be immediately brought to the attention of the Design Professional of Record (DPOR) and the Building Official. After-the-fact special inspections, if approved, shall be performed as directed by the DPOR to ensure adequate inspections are performed to meet the design intent.

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

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

DATE:

COMMENTARY ON SCHEDULE OF SPECIAL INSPECTION SERVICES	
MATERIAL / ACTIVITY	**COMMENTARY**
General	Other items may be added to the Schedule of Special Inspection Services at the discretion of the Design Professional and/or the Owner.
Definition: Special Inspection	Inspection of construction requiring the expertise of an approved special inspector in order to ensure compliance with this code and the approved construction documents.
Definition: Special Inspector	A qualified person employed or retained by an approved agency and approved by the building official as having the competence necessary to inspect a particular type of construction requiring special inspection.
Definition: Continuous Special Inspection	Special inspection by the special inspector who is present when and where the work to be inspected is being performed.
Definition: After-The-Fact Inspections	After-the-fact inspections are inspections that the Contractor failed to schedule as stipulated in the Special Inspection Schedule at areas that have already been covered and are no longer accessible to the special inspector to properly perform the inspection(s) in accordance with the applicable standards.
1704.2.5 Inspection of Fabricators	Required where structural, load-bearing or lateral load-resisting members and assemblies are fabricated in a shop, except not required where fabricator is approved in accordance with section 1704.2.5.2. Where this exception is utilized, at the completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building official stating that the work was performed in accordance with the approved construction documents.
1705.1.1 Special Cases	This section is for work unusual in nature, including but not limited to alternative materials and systems, unusual design applications, materials and systems with special manufacturer's requirements - add additional rows as needed.
1705.2.1 Structural Steel Construction	Special inspection of the steel fabrication process shall not be required where the fabricator does not perform any welding, thermal cutting or heating operation of any kind as part of the fabrication process.
1. Review of fabricator's NDT reports.	NDT of welds completed in an approved fabricator's shop may be performed by that fabricator only when approved by the authority having jurisdiction. Special Inspections include review of reports of all NDT testing done by the fabricator.
3.d. Non destructive testing (NDT) of welded joints	As a minimum for special inspections, AISC 360 Chapter N requires UT testing of complete joint penetration groove welds (CJP) subject to transversely applied tension loading in butt, T- and corner joints, in materials 5/16" (8mm) thick or greater. Further NDT testing, including UT testing of partial penetration groove welds (PJP) and magnetic particle or penetrant testing of fillet welds, may be added at the option of the engineer of record as a project requirement. AISC 360 Chapter N also allows reduction or increase in the rate of UT testing if approved by the engineer of record and by the authority having jurisdiction.
5. Inspection of exposed cut surfaces of galvanized structural steel main members	This requirement is to look for cracks subsequent to galvanizing.
1705.2.2 Structural Stainless Steel Construction	This section, added in the 2024 IBC, includes the required special inspections for Structural Stainless Steel, as listed in AISC 370, Chapter N.
1705.2.3 Cold-Formed Steel Deck	Floor and roof cold-formed steel deck per SDI QA/QC.
1705.2.4 Open-Web Steel Joists and Joist Girders	Installation including bridging per SJI as referenced in IBC 2207.1.
1705.2.5 Cold-Formed Steel Trusses Spanning 60 feet or Greater	Verification of temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package.
1705.2.6 Metal Building Systems	This new section to the IBC calls for inspections of bracing and bracing elements that have often been overlooked in metal building erection.

COMMENTARY ON SCHEDULE OF SPECIAL INSPECTION SERVICES	
MATERIAL / ACTIVITY	**COMMENTARY**
1705.3 Concrete Construction	Special Inspections are not required for certain isolated spread concrete footings, certain continuous concrete footings, nonstructural concrete slabs supported directly on the ground, and concrete foundation walls constructed in accordance with Table 1807.1.6.2. See Section 1705.3 for these specific exceptions. Special inspections are not required for any concrete patios, driveways and sidewalks, on grade.
Erection of precast concrete members.	Inspection of the erection of precast concrete has always been included in IBC, but no specific inspections have been indicated. Inspection of bolts and welds for precast concrete are covered in Section 1705.2 Steel Construction. Any specific precast erection inspection requirements should either be added to the project Special Inspection Schedule or Construction Documents. The following are some inspections that the Design Professional should consider:
	a. Verify member locations and joint details comply with construction and erection documents
	b. Verify proper bearing pad type and placement
	c. Verify placement of grout (including hot and cold weather procedures and that maximum specified number of levels to be placed before grouting are not exceeded)
	d. Verify joint widths are within specified tolerance where joints are to receive sealant
	e. Verify thread engagement and torque for mechanical connections
1705.4 Masonry Construction	Masonry construction shall be inspected and verified in accordance with TMS 402 and TMS 602 quality assurance program requirements. **Exceptions:** See 1705.4 Risk Categories: See 1604.5
1. Level A Quality Assurance	Masonry in Risk Category I, II, or III structures and designed in accordance with TMS 602 Chapter 5, 6, or 7 (Empirical Design, Veneer, Glass Unit Masonry)
2. Level B Quality Assurance	1. Masonry in Risk Category IV structures and designed in accordance with TMS 602 Chapter 6 or 7 (Veneer, Glass Unit Masonry) 2. Masonry in Risk Category I, II, or III structures and designed in accordance with TMS 602 Chapter 2, 3, 4, 8 or Appendix B (Allowable Stress Design, Strength Design, Prestressed Masonry, AAC Masonry, Masonry Infill)
3. Level C Quality Assurance	Masonry in Risk Category IV structures and designed in accordance with TMS 602 Chapter 2, 3, 4, 8 or Appendix B (Allowable Stress Design, Strength Design, Prestressed Masonry, AAC Masonry, Masonry Infill)
1705.5 Wood Construction	Special inspections of the fabrication process of prefabricated wood structural elements and assemblies shall be in accordance with Section 1704.2.5. High-load diaphragms designed in accordance with Section 2306.2 shall be installed with special inspections as indicated in Section 1704.2. **Exception:** Special inspections are not required for portions of structures designed and constructed in accordance with IBC Section 2308 unless the approved construction documents indicate otherwise.
1705.6 Soils	The approved geotechnical report and the construction documents prepared by the registered design professionals shall be used to determine compliance. Where Section 1803 does not require reporting of materials and procedures for fill placement, the special inspector shall verify that the in-place dry density of the compacted fill is not less than 90 percent of the maximum dry density at optimum moisture content determined in accordance with ASTM D 1557, or 95 percent of the maximum dry density at optimum moisture content determined in accordance with ASTM D 698.
1705.7 Driven Deep Foundations	The approved geotechnical report, and the construction documents prepared by the registered design professionals, shall be used to determine compliance.
1705.8 Cast-in-Place Deep Foundations	The approved geotechnical report, and the construction documents prepared by the registered design professionals, shall be used to determine compliance.
1705.9 Helical Pile Foundations	The approved geotechnical report, and the construction documents prepared by the registered design professional, shall be used to determine compliance.
1705.11 Fabricated Items	All fabricated items shall be listed in either of the two categories.

COMMENTARY ON SCHEDULE OF SPECIAL INSPECTION SERVICES	
MATERIAL / ACTIVITY	**COMMENTARY**
1705.12 Special Inspections for Wind Resistance	Special inspections are required for buildings and structures constructed in the following areas: 1. In wind Exposure Category B, where Vasd as determined in accordance with Section 1609.3.1 is 120 miles per hour (52.8 m/sec) or greater. 2. In wind Exposure Category C or D, where Vasd as determined in accordance with Section 1609.3.1 is 110 mph (49 m/sec) or greater. **Exceptions:** 1. Structural wood Special Inspection is not required for wood shear walls, shear panels and diaphragms, including nailing, bolting, anchoring and other fastening to other components of the main windforce-resisting system, where the fastener spacing is more than 4 inches on center. 2. Cold-formed steel light-frame construction Special Inspection is not required for cold-formed steel light-frame shear walls, braces, diaphragms, collectors (drag struts) and hold-downs where any of the following apply: the sheathing is gypsum or fiberboard; or the sheathing is wood structural panel or steel sheets on only one side of the shear wall, shear panel or diaphragm assembly and the fastener spacing of the sheathing is more than 4 inches on center.
1705.13.1 Structural Steel Special Inspections for Seismic Resistance	Mandatory in accordance with AISC 341 for the seismic force-resisting systems in Seismic Design Category B, C, D, E or F. **Exceptions:** 1. Structures assigned to Seismic Design Category B or C with structural steel systems not specifically detailed for seismic resistance with a Response Modification Coefficient, R, of 3 or less, excluding cantilever column systems. 2. Exceptions listed in Sections 1704.2 and 1705.13.
1705.13.2 Structural Wood Special Inspections for Seismic Resistance	Mandatory for the seismic force-resisting systems in Seismic Design Category C, D, E or F. **Exceptions:** 1. Special inspection is not required for wood shear walls, shear panels and diaphragms, including nailing, bolting, anchoring and other fastening to other components of the seismic force-resisting system, where the fastener spacing of the sheathing is more than 4 inches on center. 2. Exceptions listed in Sections 1704.2 and 1705.13.
1705.13.3 Cold-formed Steel Light-Frame Construction Special Inspections for Seismic Resistance	Mandatory for the seismic-force-resisting systems in Seismic Design Category C, D, E or F. **Exceptions:** 1. Sheathing is gypsum board or fiberboard. 2. Sheathing is wood structural panel or steel sheet on only one side and the fastener spacing of the sheathing is more than 4 inches on center. 3. Exceptions listed in Sections 1704.2 and 1705.13.
1705.13.4 Designated Seismic Systems Verification	Definition, Designed Seismic Systems: Those nonstructural components that require design in accordance with ASCE 7 Chapter 13 and for which the component importance factor, Ip, is greater than 1 in accordance with ASCE 7 Section 13.2.3.
Inspect and verify that that the label, anchorage, and mounting conforms to the certificate of compliance.	Mandatory for structures assigned to Seismic Design Category C, D, E or F.
1705.13.5 Architectural Components Special Inspections for Seismic Resistance	
1. Inspection during the erection and fastening of exterior cladding, interior and exterior nonbearing walls and interior and exterior veneer.	Mandatory for structures assigned to Seismic Design Category D, E or F. **Exceptions:** 1. Not required for exterior cladding, interior and exterior nonbearing walls, and interior and exterior veneer 30 feet or less in height above grade or walking surface. 2. Not required for exterior cladding and interior and exterior veneers weighing 5 psf or less. 3. Not required for interior nonbearing walls weighing less than 15 psf.
2. Inspection during anchorage of access floors.	Mandatory for structures assigned to Seismic Design Category D, E or F.

COMMENTARY ON SCHEDULE OF SPECIAL INSPECTION SERVICES	
MATERIAL / ACTIVITY	**COMMENTARY**
1705.13.6 Mechanical and Electrical Components Special Inspections for Seismic Resistance	
1. Inspection during the anchorage of electrical equipment for emergency or standby power systems.	Mandatory for structures assigned to Seismic Design Category C, D, E or F.
2. Inspection during the anchorage of other electrical equipment	Mandatory for structures assigned to Seismic Design Category E or F.
3. Inspection during installation and anchorage of piping systems designed to carry hazardous materials and their associated mechanical units.	Mandatory for structures assigned to Seismic Design Category C, D, E or F.
4. Inspection during the installation and anchorage of ductwork designed to carry hazardous materials.	
5. Inspection during the installation and anchorage of vibration isolation systems.	Mandatory for structures assigned to Seismic Design Category C, D, E or F, where the construction documents require a nominal clearance of 0.25 inches or less, between the equipment support frame and restraint.
1705.13.7 Storage Racks Special Inspections for Seismic Resistance	
Inspection during the anchorage of storage racks 8 feet or greater in height.	Mandatory for structures assigned to Seismic Design Category D, E or F.
1705.13.8 Seismic Isolation Systems	
Inspection during the fabrication and installation of isolator units and energy dissipation devices.	See ASCE 7 Section 17 for additional inspection and quality control requirements.
1705.14.1 Structural Steel Testing and Qualification for Seismic Resistance	Applies to structural steel systems designed to AISC 341 and assigned to Seismic Design Category C, D, E or F. This is not required for steel structures assigned to Seismic Design Category C that are not specifically detailed for seismic resistance, with a response modification coefficient, R, of 3 or less, excluding cantilever column systems.
1705.14.2 Seismic Certification of Nonstructural Components	Applies to architectural, mechanical and electrical components in structures assigned to Seismic Design Category C, D, E or F and where the requirements of ASCE 7 Section 13.2.1 are met by submittal of manufacturer's certification, in accordance with Item 2.
Review certificate of compliance.	Review the construction documents for the requirements for certification by analysis, testing or experience data for nonstructural components and designated seismic systems in accordance with ASCE 7 Section 13.2.
1705.14.3 Seismic Certification of Designated Seismic Systems	Applies to the systems designated in accordance with ASCE7 Section 13.2.4, in structures assigned to SDC C, D, E, or F.
1705.14.4 Seismic Isolation Systems	Test in accordance with ASCE 7 Section 17.8.
1705.15 Sprayed Fire-resistive Materials	Inspect in accordance with ASTM E 605, ASTM E 736, and the written instructions of approved manufacturers.
Verify average thickness of sprayed fire-resistant materials applied to structural members.	Thickness testing required for minimum of 25% of structural members on each floor. See Section 1705.13 for testing requirements for floor, roof and wall assemblies.

COMMENTARY ON SCHEDULE OF SPECIAL INSPECTION SERVICES	
MATERIAL / ACTIVITY	**COMMENTARY**
1705.16 Intumescent Fire-Resistive Materials	
Inspect mastic and intumescent fire-resistant coatings applied to structural elements and decks.	Special inspections shall be in accordance with AWCI 12-B. Special inspections shall be based on the fire-resistance design as designated in the approved construction documents.
1705.17 Exterior Insulation and Finish Systems (EIFS)	
1. Verify materials, details and installations are per the approved construction documents.	Mandatory except for applications installed over masonry or concrete walls, or where installed over a water-resistive barrier with means of draining moisture to the exterior.
2. Inspect water-resistive barrier coating over sheathing substrate.	Mandatory where water-resistive barrier coating is installed over sheathing substrate.
1705.18 Fire-Resistant Penetrations and Joints	Mandatory in high-rise buildings or in buildings assigned to Risk Category III or IV in accordance with Section 1604.5.
1705.19 Smoke Control Systems	Mandatory by special inspection agencies having expertise in fire protection engineering, mechanical engineering and certification as air balancers.
1705.20 Sealing of Mass Timber Construction	Mandatory inspections for resisting passage of air on fire-resistant rated elements.
After-The-Fact Inspections	Missed Special Inspections have been a challenge for the Owner and Design Team. This challenge is primarily due to either the lack of awareness or lack of qualifications, or both by the General Contractor's Project Manager/Superintendent who controls the Special Inspections notification process during the construction. Often inspections are missed altogether or partial areas have been inspected that typically delay the certification process. As a result, the Owner, who is not in touch with the nuances of the construction, suffers unnecessary delays in getting the Certificate of Occupancy. The Special Inspection Agency is to notify the Design Professional in Responsible Charge and the Building Official of any instance where work requiring a Special Inspection is covered up prior to its inspection. The DPoR, consulting with the Special Inspection Agency, should plan action, either getting the work uncovered or additional tests and/or inspections to be performed to replace the missed inspections. Prior to implementing this plan, the DPoR should meet with the Building Official to discuss the acceptability of the replacement plan.

Contractor's Statement of Responsibility

Each contractor responsible for the construction or fabrication of a main wind or seismic force-resisting system, designated seismic system or wind or seismic-resisting component listed in the Statement of Special Inspections, Special Inspections for Seismic or Wind Resistance, must submit a Statement of Responsibility.

Project: _____

Contractor's Name: _____

Address: _____

License No.: _____

Description of building systems and components included in Statement of Responsibility:

_____
_____
_____
_____
_____
_____
_____

Contractor's Acknowledgement of Special Requirements

I hereby acknowledge that I have received, read, and understand the Statement of Special Inspections and Special Inspection program:

I hereby acknowledge that control will be exercised to obtain conformance with the approved construction documents.

_____
Name and Title (type or print)

_____ _____
Signature Date

Fabricator's Certificate of Compliance

Each approved fabricator that is exempt from Special Inspection of shop fabrication and implementation procedures per section 1704.2.5.2 of the International Building Code must submit *Fabricator's Certificate of Compliance* at the completion of fabrication.

Project: _____

Fabricator's Name: _____

Address: _____

Certification or Approval Agency: _____

Certification Number: _____

Date of Last Audit or Approval: _____

Description of structural members and assemblies that have been fabricated:

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

I hereby certify that the items described above were fabricated in strict accordance with the approved construction documents.

_____
Name and Title (type or print)

_____ _____
Signature Date

Attach copies of fabricator's certification or building code evaluation service report and fabricator's quality control manual.

SPECIAL INSPECTION DAILY REPORT

PROJECT NAME / ADDRESS:
INSPECTION TYPE(S) COVERAGE ☐ CONTINUOUS ☐ PERIODIC TIME BEGINNING INSPECTION: TIME ENDING INSPECTION:
DESCRIBE INSPECTIONS MADE, INCLUDING LOCATIONS:
LIST TESTS MADE:
LIST ITEMS REQUIRING CORRECTIONS, CORRECTIONS OF PREVIOUSLY LISTED ITEMS AND PREVIOUSLY LISTED UNCORRECTED ITEMS: PROVIDE COPIES OF DISCREPANCY NOTICES:
COMMENTS:
TO THE BEST OF MY KNOWLEDGE, WORK INSPECTED WAS IN ACCORDANCE WITH THE APPROVED DESIGN DRAWINGS, AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.

PRINTED FULL NAME	
NOTE BY "SPECIAL INSPECTOR" OR	

SIGNED:	DATE:
CERTIFICATION:	NUMBER:

One copy of this report to remain at job site with the contractor for review upon request.

SPECIAL INSPECTION INTERIM REPORT

PROJECT NAME / ADDRESS:								
INSPECTION TYPE(S) COVERAGE ☐ CONTINUOUS ☐ PERIODIC TIME BEGINNING INSPECTION: TIME ENDING INSPECTION:								
DESCRIBE INSPECTIONS MADE, INCLUDING LOCATIONS:								
LIST TESTS MADE:								
TOTAL INSPECTION TIME EACH DAY	DATE							
	HOURS							
LIST ITEMS REQUIRING CORRECTIONS, CORRECTIONS OF PREVIOUSLY LISTED ITEMS AND PREVIOUSLY LISTED UNCORRECTED ITEMS: PROVIDE COPIES OF DISCREPANCY NOTICES:								
COMMENTS:								
TO THE BEST OF MY KNOWLEDGE, WORK INSPECTED WAS IN ACCORDANCE WITH THE APPROVED DESIGN DRAWINGS, AND SPECIFICATIONS, EXCEPT AS NOTED ABOVE.								
PRINTED FULL NAME								
NOTE BY "SPECIAL INSPECTOR" OR PROVIDE NAME OF TESTING AGENCY								
SIGNED:						DATE:		
CERTIFICATION:						NUMBER:		

One copy of this report to remain at job site with the contractor for review upon request.

DISCREPANCY NOTICE No. _____

SPECIAL INSPECTION DISCREPANCY NOTICE

PROJECT NAME / ADDRESS:		
INSPECTION TYPE(S) COVERAGE ☐ CONTINUOUS ☐ PERIODIC		
AREA INSPECTED	TYPE OF INSPECTION	
NOTICE DELIVERED TO: O CONTRACTOR O ENGINEER/ARCHITECT O OWNER	DATE:	TIME:
MAKE THE FOLLOWING CORRECTIONS AND SECURE INSPECTION APPROVAL PRIOR TO PROCEEDING WITH THIS PHASE OF THE WORK.		
PRINTED FULL NAME		
NOTE BY "SPECIAL INSPECTOR" OR PROVIDE NAME OF TESTING AGENCY		
SIGNED:	DATE:	
CERTIFICATION:	NUMBER:	

One copy of this report to remain at job site with the contractor for review upon request.