

SPECIAL INSPECTIONS			
1. Special Inspections shall be performed in accordance with Section 1705 of 2021 IBC. An independent testing agency shall be employed to provide Special Inspections during construction on the types of work listed under Section 1705. The following areas of work require Special Inspections in accordance with 2021 IBC.			
2. Refer to project specification for additional quality control/quality assurance requirements.			
3. Construction Manager/Contractor shall coordinate any additional Special Inspection requirements with the Owner and applicable building authorities.			
4. Special Inspections are not the responsibility of the Structural Engineer of Record.			
5. Special Inspections shall be paid for directly by the Construction Manager.			
6. Copies of all Special Inspections Reports shall be emailed to the SEOR Mark A. Smith, P.E., S.E., (mas@tswstructural.com) or their designate within seven (7) calendar days of completing the individual inspection(s).			

STRUCTURAL STEEL (IBC 1705.2.1, 1705.13.1 & 1705.14.1)			
PRIOR TO WELDING (TABLE N5.4-1, AISC 360-16; TABLE J6-1, AISC 341-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Verify welding procedures (WPS) and manufacturer certifications for welding consumable available	X	----	----
Verify type and grade of material.	----	X	For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Welder identification	----	X	A system shall be maintained by which a welder who has welded a joint or member can be identified. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Fit-up groove welds	----	X	Verify joint preparation, dimensions, cleanliness, tacking, and backing. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Access holes	----	X	Verify configuration and finish. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Fit-up of fillet welds	----	X	Verify dimensions, cleanliness, and tacking. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Check welding equipment	----	X	----
Welder qualification records and continuity records	----	X	----

DURING WELDING (TABLE N5.4-2, AISC 360-16; TABLE J6-2, AISC 341-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Use of qualified welders	----	X	Verify that welders are appropriately qualified. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Control and handling of welding consumables	----	X	Verify packaging and exposure control. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Cracked tack welds	----	X	Verify welding does not occur over cracked tack welds. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Environmental conditions	----	X	Verify wind speed within limits, precipitation and temperature. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
WPS followed	----	X	Verify settings on welding equipment, travel speed, welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained, and proper position. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Welding techniques	----	X	Verify interpass and final cleaning, each pass within profile limitations, and quality of each pass. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Steel headed stud anchors	----	X	Verify placement and installation.

AFTER WELDING (TABLE N5.4-3, AISC 360-16; TABLE J6-3, AISC 341-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Welds cleaned	----	X	Verify welds properly cleaned. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Size, length, and location of welds	X	----	----
Welds meet visual acceptance criteria	X	----	Verify crack prohibition, weld/base metal fusion, crater cross section, weld profiles, weld size, undercut, and porosity meet visual acceptance criteria.
Arc strikes	X	----	----
K-area	X	----	----
Backing & weld tabs removed and finished, and fillet welds added (if required)	X	----	----
Repair activities	X	----	----
Document acceptance or rejection of welded joint/member	X	----	----
Placement of reinforcing or contouring fillet welds	X	----	Only required in components of seismic force resisting system.
Weld access holes	----	X	After rolled heavy shapes are welded, visually inspect the weld access hole for cracks.
Prohibited welds	X	----	Verify no prohibited welds have been added without approval of the EOR.

STEEL ELEMENTS OF COMPOSITE CONSTRUCTION (TABLES J9-1 thru J9-3, AISC 341-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Reinforcing steel	----	X	Verify appropriate reinforcement size, type, grade, spacing, and orientation; not re-bent in field; correctly tied and supported; and required steel clearances provided. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Composite member size	----	X	Verify required size. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.

OTHER STEEL INSPECTIONS (SECTION N5.7 & N5.8, AISC 360-16; TABLES J8-1 & J10-1, AISC 341-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Structural steel details (fabricated steel or steel frames)	----	X	Verify compliance with the details in construction documents in items including: braces, stiffeners, member locations, and proper application of joint details at each connection. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Anchor rods and other embedments supporting structural steel	----	X	Verify compliance with construction documents. Verify diameter, grade, type, length of anchor rod or embedded item, and extent or depth of embedment prior to placement of concrete. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Reduced beam sections (RBS)	X	----	For seismic force resisting system components: Verify contour and finish as well as dimensional tolerances.
Protected zones	X	----	For seismic force resisting system components: Verify that no holes or unapproved attachments are made within the protected zone.
H-piles	X	----	For seismic force resisting system components: Verify that no holes or unapproved attachments occur within the protected zones of piling.
Galvanized structural steel	----	X	Verify exposed cut surfaces of galvanized structural steel main members and exposed corners of rectangular HSS have no cracks subsequent to galvanizing.

STRUCTURAL STEEL (CONT.) (IBC 1705.2.1, 1705.13.1, & 1705.14.1)			
PRIOR TO BOLTING (TABLE N5.6-1, AISC 360-16; TABLE J7-1, AISC 341-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Manufacturer's certifications	X	----	Verify certifications available for fastener materials.
Fasteners marked	----	X	Verify marked in accordance with ASTM requirements. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Fastener selection	----	X	Verify proper selection for joint detail including grade, type, and bolt length if threads excluded from shear plane. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Bolting procedure	----	X	Verify proper bolting procedure selected for joint detail. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Connecting surfaces	----	X	Verify connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Pre-installation verification testing by installation personnel	X	----	Observe and document for fastener assemblies and methods used.
Fastener storage	----	X	Verify proper storage provided for bolts, nuts, washers, and other fastener components. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.

DURING BOLTING (TABLE N5.6-2, AISC 360-16; TABLE J7-2, AISC 341-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Position of fasteners	----	X	Verify fastener assemblies, of suitable condition, are placed in all holes and washers, if required, are positioned as required. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Joint brought into snug-tight condition prior to the pretensioning operation	----	X	For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Fastener components not turned by the wrench are prevented from rotating	----	X	For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Pretensioning of fasteners	----	X	Fasteners are pretensioned in accordance with the RCSC specification, progressing systematically from the most rigid point toward the free edges. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.

AFTER BOLTING (TABLE N5.6-3, AISC 360-16; TABLE J7-3, AISC 341-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Document acceptance or rejection of bolted connections	X	----	----

NONDESTRUCTIVE TESTING (SECTION N5.5, AISC 360-16; SECTION J6, AISC 341-16)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
CJP welds (Risk Cat. II)	----	X	Ultrasonic testing shall be performed on 10% of CJP groove welds in butt, T- and corner joints subject to transversely applied tension loading in materials 5/16-inch thick or greater. Testing rate must be increased if >5% of welds tested have unacceptable defects. See AISC 360-16 Section N5.5f for increase requirements.
CJP welds (Risk Cat. III or IV)	X	----	Ultrasonic testing shall be performed on all CJP groove welds subject to transversely applied tension loading in butt, T- and corner joints, in materials 5/16-inch thick or greater. See AISC 360-16 Section N5.5e for reduction in rate of ultrasonic testing.
Welded joints subject to fatigue	X	----	----
Document all nondestructive testing k-area	X	----	Verify record indicates basis of rejection and location of defect for all rejected welds.
CJP groove welds (all components of seismic force resisting system)	X	----	Ultrasonic testing shall be performed on 100% of CJP groove welds in materials 5/16-inch thick or greater. Magnetic particle testing shall be performed on 25% of all beam-to-column CJP groove welds. See AWS D1.1/D1.1M Table 6.2 for acceptance/rejection criteria. See Sections J6-2g and J6-2h in AISC 341-16 for potential reduction in the rate of magnetic particle and ultrasonic testing.
Base metal (>1 1/2")	X	----	For components of seismic force resisting system: Ultrasonic testing for discontinuities shall be performed, after joint completion, behind and adjacent to fusion line of CJP groove welds where base metal (>1 1/2") is loaded in tension in through-thickness direction in T- and corner joints and the connection material is >3/4" thick. See AWS D1.1/D1.1M Table 6.2 for acceptance/rejection criteria.
Beam cope and access holes (range >1 1/2" for rolled shapes, web thickness >1 1/2" for built-up sections)	X	----	For components of seismic force resisting system: Magnetic particle testing or penetrant testing shall be performed.
Reduced beam section repair	X	----	For components of seismic force resisting system: Magnetic particle testing shall be performed on any weld and adjacent area of the reduced beam section cut surface that has been repaired by welding, or on the base metal of the reduced beam section cut surface if sharp notch has been removed by grinding.
Weld tab removal sites	X	----	For components of seismic force resisting system: Magnetic particle testing shall be performed on same beam-to-column joints receiving ultrasonic testing under the CJP groove welds for components of seismic force resisting system listed in this table. See Section J6-2f and Section J6-2h of AISC 341-16 for reference. See Sections J6-2g and J6-2h in AISC 341-16 for potential reduction in the rate of magnetic particle and ultrasonic testing.

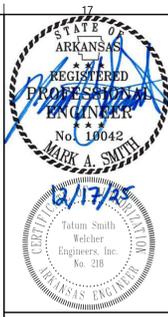
STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL (IBC 1705.2)			
STEEL ROOF AND FLOOR DECKS (IBC TABLE 1705.2.2/SDI QA/QC 6.1)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Material verification of cold-formed steel deck	----	X	Verify deck materials are represented by appropriate mill certifications.
Floor and roof deck welding	----	X	Verify weld meets acceptance criteria of AWS D.3. Verify welder qualifications.
Floor and deck mechanical fasteners	----	X	Verify fastener installation in accordance with SDI.
Deck installation	----	X	Verify deck installation in accordance with applicable drawings and documents.

OPEN-WEB STEEL JOISTS AND JOIST GIRDERS (IBC TABLE 1705.2.3):			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
End connections - welding or bolted	----	X	Verify installation compliance with SJI specifications listed in IBC 2207.1.
Bridging - horizontal or diagonal	----	X	Verify installation compliance with SJI specifications listed in IBC 2207.1 as applicable.

WELDING OF REINFORCING STEEL (IBC 1705.3.1, TABLE 1705.3)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Verification of weldability	----	X	Verify weldability of reinforcing steel other than ASTM A706 in accordance with AWS D1.4.
Inspect single pass fillet welds, max 5/16"	----	X	Verify weld meets acceptance criteria of AWS D1.4.
Inspect all other welds	X	----	Verify weld meets acceptance criteria of AWS D1.4.

COLD-FORMED STEEL CONSTRUCTION (IBC 1705.2.2, 1705.2.4, 1705.12.2, & 1705.13.3)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Trusses spanning > 60-feet	----	X	Verify temporary and permanent truss bracing is installed in accordance with approved truss package.
Welding in wind-force-resisting systems or seismic-force-resisting systems	----	X	Verify proper screw attachment, bolting, anchoring and other fastening of shear walls, diaphragms, drag struts, braces, shear panels and holdowns. See IBC 1705.12.2 for exceptions.
Floor and roof deck welds	----	X	Verify weld meets acceptance criteria of SDI QA/QC. Verify welder qualifications.

INSPECTION OF FABRICATORS (IBC 1704.2)			
Verification & Inspection	Continuous	Periodic	Detailed Instructions
Verify fabricator maintains detailed fabrication and quality control procedures	----	X	See IBC 1704.2.5.1.
Submission of certificate of compliance	----	X	Where work is done on premises of "Approved" fabricator, Fabricator shall submit a Certificate of Compliance to the building official stating work was performed in accordance with the approved construction documents. See IBC 1704.2.5.1.



Hight Jackson
 ASSOCIATES
 5201 W Village Parkway, Suite 3001, Rogers, Arkansas 72768 | (479) 464-4965 | www.hjarch.com

A RESTORATION FOR
RPS Administration Building
 500 W Walnut St, Rogers AR 72756

DRAWN BY:
JLC
 CHECK BY:
MAS
 ISSUE DATE:
11/25/25
 PROJECT NO:
2534
 REVISION DATES:
 12/17/25

REQUIRED IBC SPECIAL INSPECTIONS
 SHEET
S1.0
 COPYRIGHT 2025
 THESE DRAWINGS AND SPECIFICATIONS ARE THE EXCLUSIVE PROPERTY OF
 HIGHT JACKSON ASSOCIATES P.A.
 USE OR REPRODUCTION IS PROHIBITED WITHOUT WRITTEN CONSENT

TATUM SMITH WELCH
 STRUCTURAL ENGINEERS
 (479) 621-6128 ROGERS, ARKANSAS
 TSW #: 28180 PM: MAS DE: MAS