

STATEMENT OF SPECIAL INSPECTIONS (STRUCTURAL)

GENERAL INFORMATION

This Schedule of Special Inspection Services (Structural) has been prepared by JJA Engineers Inc. (Structural Engineer of Record) and shall be included in the Statement of Special Inspections which the "Registered Design Professional In Responsible Charge" (not JJA Engineers Inc.) shall submit to the Building Official at time of permit application in accordance with Section 1704 of the 2021 Arkansas Fire Prevention Code.

Special Inspection 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 and Structural Observation by the Design Professional.

Special inspections and tests are required to be performed by qualified, independent agents with special expertise as approved by the Building Official. The qualified, independent agents shall be retained by the owner to complete the special inspections noted in this document. Refer to Chapter 17 of the 2021 Arkansas Fire Prevention Code.

Special Inspections per 2021 Arkansas Fire Prevention Code Section 1704 are required to be provided on all professionally designed projects not meeting the exceptions described in Section 1704.2 or as determined by the Building Official.

As part of the general requirements Section 1704 of the 2021 Arkansas Fire Prevention Code, Special Inspections, Contractor Responsibility and Structural Observations, a Statement of Special Inspections including a Schedule of Special Inspection Services prepared by the Registered Design Professional in Responsible Charge (not JJA Engineers Inc.) shall be submitted to the Building Official at time of permit application.

1704.2.5 INSPECTION OF FABRICATORS			
MATERIAL/ACTIVITY	SERVICE	Y/N	EXTENT
Verify fabrication/quality control procedures	In-plant review (3)	Y	Periodic

1705.2 STEEL CONSTRUCTION			
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT
1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, chapter N, paragraph 3.2 for compliance with construction documents)	Submittal Review	Y	Each submittal
2. Material verification of structural steel	Shop (3) and field inspection	Y	Periodic
3. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors)	Field inspection	Y	Periodic
4. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents	Field inspection	Y	Periodic
5. Structural steel welding (Inspection tasks prior to welding)			
a. Welding procedure specifications (WPSs) available	Submittal Review	Y	Perform (4)
b. Manufacturer certifications for welding consumables available	Submittal Review	Y	Perform (4)
c. Material identification (type/grade)	Shop (3) and field inspection	Y	Observe (4)
d. Welder identification system (G)	Shop (3) and field inspection	Y	Observe (4)
e. Fit-up of groove welds (including joint geometry): Joint preparation; Dimensions (alignment, root opening, root face, bevel); Cleanliness (condition of steel surfaces); Tacking (tack weld quality and location); Backing type and fit (if applicable)	Shop (3) and field inspection	Y	Observe (4)
f. Configuration and finish of access holes	Shop (3) and field inspection	N	Observe (4)
g. Fit-up of fillet welds: Dimensions (alignment, gaps at root); Cleanliness (condition of steel surfaces); Tacking (tack weld quality and location)	Shop (3) and field inspection	Y	Observe (4)
6. Structural steel welding (Inspection tasks during welding)			
a. Use of qualified welders	Shop (3) and field inspection	Y	Observe (4)
b. Control and handling of welding consumables: Packaging; Exposure control	Shop (3) and field inspection	Y	Observe (4)
c. No welding over cracked tack welds	Shop (3) and field inspection	Y	Observe (4)
d. Environmental conditions: Wind speed within limits; Precipitation and temperature	Shop (3) and field inspection	Y	Observe (4)
e. WPS followed: Settings on welding equipment; Travel speed; Selected welding materials; Shielding gas type/flow rate; Preheat applied; Interpass temperature maintained (min./max.); Proper position (F, V, H, OH)	Shop (3) and field inspection	Y	Observe (4)
f. Welding techniques: Interpass and final cleaning; Each pass within profile limitations; Each pass meets quality requirements	Shop (3) and field inspection	Y	Observe (4)
7. Structural steel welding (Inspection tasks after welding)			
a. Welds cleaned	Shop (3) and field inspection	Y	Observe (4)
b. Size, length and location of welds	Shop (3) and field inspection	Y	Perform (4)
c. Welds meet visual acceptance criteria: Crack prohibition; Weld/base-metal fusion; Crater cross section; Weld profiles; Weld size; Undercut; Porosity	Shop (3) and field inspection	Y	Perform (4)
d. Arc strikes	Shop (3) and field inspection	Y	Perform (4)
e. k-area (7)	Shop (3) and field inspection	Y	Perform (4)

1705.2 STEEL CONSTRUCTION (CONTINUED)			
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT
f. Backing removed and weld tabs removed (if required)	Shop (3) and field inspection	Y	Perform (4)
g. Repair activities	Shop (3) and field inspection	Y	Perform (4)
h. Document acceptance or rejection of welded joint or member	Shop (3) and field inspection	Y	Perform (4)
8. Nondestructive testing (NDT) of welded joints:		Y	
a. Complete penetration groove welds 5/16" or greater in risk category III or IV	Shop (3) or field ultrasonic testing - 100%	N	Periodic
b. Complete penetration groove welds 5/16" or greater in risk category II	Shop (3) or field ultrasonic testing - 10% of welds minimum	Y	Periodic
c. Thermally cut surfaces of access holes when the flange thickness exceeds 2" for rolled shapes, or when the web thickness exceeds 2" for built-up shapes.	Shop (3) or field magnetic Particle or Penetrant testing	N	Periodic
d. Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1	Shop (3) or field radiographic or Ultrasonic testing	Y	Periodic
e. Fabricator's NDT reports when fabricator performs NDT	Verify reports	Y	Each submittal (5)
9. Structural steel bolting (Inspection tasks prior to bolting)			
a. Manufacturer's certifications available for fastener materials	Shop (3) and field inspection	Y	Perform (4)
b. Fasteners marked in accordance with ASTM requirements	Shop (3) and field inspection	Y	Observe (4)
c. Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	Shop (3) and field inspection	Y	Observe (4)
d. Proper bolting procedure selected for joint detail	Shop (3) and field inspection	Y	Observe (4)
e. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	Shop (3) and field inspection	Y	Observe (4)
f. Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used			
1) Snug-tight joints	Shop (3) and field inspection	Y	Observe (4)
2) Pre-tensioned and slip-critical joints	Shop (3) and field inspection	Y	Observe (4)
g. Proper storage provided for bolts, nuts, washers and other fastener components	Shop (3) and field inspection	Y	Observe (4)
10. Structural steel bolting (Inspection tasks during bolting)			
a. Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required			
1) Snug-tight joints	Field inspection	Y	Observe (4)
2) Pre-tensioned and slip-critical joints	Field inspection	Y	Observe (4)
b. Joint brought to the snug-tight condition prior to the pretensioning operation			
1) Snug-tight joints	Field inspection	Y	Observe (4)
2) Pre-tensioned and slip-critical joints			
a) Turn-of-nut with matching markings	Field inspection	Y	Observe (4) (8)
b) Direct tension indicator	Field inspection	Y	Observe (4) (8)
c) Twist-off type tension control bolt	Field inspection	Y	Observe (4) (8)
d) Turn-of-nut without matching markings	Field inspection	Y	Observe (4) (9)
e) Calibrated wrench	Field inspection	Y	Observe (4) (9)
c. Fastener component not turned by the wrench prevented from rotating	Field inspection	Y	Observe (4)
d. Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	Field inspection	Y	Observe (4)
11. Structural steel bolting (Inspection tasks after bolting)			
a. Document acceptance or rejection of bolted connections		Y	Perform (4)
12. Inspection of steel elements of composite construction prior to concrete placement			
a. Placement and installation of steel deck (10)	Field inspection	N	Perform (4)
b. Placement and installation of steel headed stud anchors (11)	Field inspection	N	Perform (4)
c. Document acceptance or rejection of steel elements		N	Perform (4)

1705.2.2 COLD-FORMED STEEL DECK			
MATERIAL / ACTIVITY	SERVICE	Y/N	EXTENT
1. Inspection or execution tasks prior to deck placement:			
a. Verify compliance of materials (deck and all deck accessories) with construction documents, including profiles, material properties, and base metal thickness.	Submittal Review	Y	Perform (12)
b. Document acceptance or rejection of deck and deck accessories.	Submittal Review	Y	Perform (12)
2. Inspection or execution of tasks after deck placement:			
a. Verify compliance of deck and all deck accessories installation with construction documents.	Field inspection	Y	Perform (12)
b. Verify deck materials are represented by the mill certifications that comply with the construction documents.	Field inspection	Y	Perform (12)
c. Document acceptance or rejection of installation of deck and deck accessories.	Field inspection	Y	Perform (12)
3. Inspection or execution tasks prior to welding:			
a. Welding procedure specifications (WPS) available.	Submittal Review	Y	Observe (12)
b. Manufacturer certifications for welding consumables available.	Submittal Review	Y	Observe (12)
c. Material identification (type/grade).	Field inspection	Y	Observe (12)
d. Check welding equipment.	Field inspection	Y	Observe (12)
4. Inspection or execution tasks during welding:			
a. Use of qualified welders.	Field inspection	Y	Observe (12)
b. Control and handling of welding consumables.	Field inspection	Y	Observe (12)
c. Environmental conditions (wind speed, moisture, temperature).	Field inspection	Y	Observe (12)
d. WPS followed	Field inspection	Y	Observe (12)
5. Inspection or execution tasks after welding:			
a. Verify size and location of welds, including support, sidelap, and perimeter welds.	Field inspection	Y	Perform (12)
b. Welds meet visual acceptance criteria.	Field inspection	Y	Perform (12)
c. Verify repair activities.	Field inspection	Y	Perform (12)
d. Document acceptance or rejection of welds.	Field inspection	Y	Perform (12)
6. Inspection or execution tasks prior to mechanical fastening:			
a. Manufacturer installation instructions available for mechanical fasteners.	Submittal Review	Y	Observe (12)
b. Proper tools available for fastener installation.	Field inspection	Y	Observe (12)
c. Proper storage for mechanical fasteners.	Field inspection	Y	Observe (12)
7. Inspection or execution tasks during mechanical fastening:			
a. Fasteners are positioned as required.	Field inspection	Y	Observe (12)
b. Fasteners are installed in accordance with manufacturer's instructions.	Field inspection	Y	Observe (12)
8. Inspection or execution tasks after mechanical fastening:			
a. Check spacing, type, and installation of support fasteners.	Field inspection	Y	Perform (12)
b. Check spacing, type, and installation of sidelap fasteners.	Field inspection	Y	Perform (12)
c. Check spacing, type, and installation of perimeter fasteners.	Field inspection	Y	Perform (12)
d. Verify repair activities.	Field inspection	Y	Perform (12)
e. Document acceptance or rejection of mechanical fasteners.	Field inspection	Y	Perform (12)

1705.2.3 OPEN-WEB STEEL JOISTS AND JOIST GIRDERS			
MATERIAL/ACTIVITY	SERVICE	Y/N	EXTENT
1. Installation of open-web steel joists and joist girders.			
a. End connections - welding or bolted.	Field inspection	Y	Periodic
b. Bridging - horizontal or diagonal.			
1. Standard bridging.	Field inspection	Y	Periodic
2. Bridging that differs from the SJJ specifications listed in Section 2207.1.	Field inspection	Y	Periodic



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Revision Schedule	
Rev. #	Date

NWA PEDIATRICS ADDITION
 3730 S PINNACLE HILLS PKWY #3
 ROGERS, AR 72768

MANA
 3383 N MANA CT. SUITE 201
 FAYETTEVILLE, AR 72703

DATE	DRAWN BY
02/23/26	LCG
PROJECT #	CHECKED BY
2438	LCG

SHEET
S7
 SPECIAL INSPECTIONS



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