

MATERIAL/ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT		
			EXTENT (All, Sample, Other, None)	COMMENTS	AGENT #
SECTION 1 - STEEL CONSTRUCTION (IBC 2003)					
<p>STRUCTURAL STEEL - Fabrication</p> <p>NOTE: SER may waive Fabricator shop inspection if Fabricator is currently certified through the AISC Quality Certification Program.</p> <p>If shop inspection is waived, the Fabricator shall submit a letter certifying that the fabricated steel complies with the contract documents.</p>	1.1a	Review Fabricator QA/QC procedures manual.	One shop inspection required.		
	1.1b	Review Fabricator QA/QC procedures implementation and conformance.	One shop inspection required. Visual inspection of shop conformance.		
	1.1c	Review material certificates of compliance (bolts, nuts, washers, structural steel and weld filler material).	Verify that certificates of compliance have been approved.		
	1.1d	Review welder certification.	Obtain certification numbers for all welders and all steel. Verify welder qualification in accordance with AWS D1.1.		
	1.1e	Review shop drawings.	Verify approval.		
	1.1f	Inspect welded connections	Verify correct weld filler processes and weld rod storage. Provide continuous inspection of complete and partial penetration groove welds and for fillet welds greater than 5/16". Periodically inspect fillet welds equal to or less than 5/16". Visually inspect all welds.	Inspector shall be qualified according to AWS D1.1.	
	1.1g	Inspect bolted connections.	During installation, verify bolts, nuts, washers, paint, bolted parts and installation and tightening procedures are in compliance with referenced standards. Periodically inspect the installation of snug-tightened connections. Verify that all plies of all snug-tightened connections are drawn together. At pretensioned bolted connections, observe the pre-installation testing and calibration procedures when such procedures are required for the installation method. Provide continuous monitoring for pretensioned connections utilizing calibrated wrench method or turn of the nut method without matchmarking. Provide periodic monitoring of pretensioned bolted connections utilizing the turn of the nut method with matchmarking techniques, the direct tension indicator method, or the twist-off bolt method.		
	1.1h	Review structural steel and fabrication for conformance to approved shop drawings.	Verify member sizes, piece marks and connection details match approved shop drawings. Visually inspect bolts and welds.		
	1.1i	Review Certificate of Compliance.	Verify submission of certificate of compliance that fabricated material complies with contract documents.		

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STRUCTURAL STEEL - Erections	1.2a	Review welder certification.	Obtain certification numbers for all welders and all steel. Verify welder qualification in accordance with AWS D1.1		
	1.2b	Review materials certificates of compliance (bolts, nuts, washers, and weld filler material).	Verify that certificates of compliance have been approved.		
	1.2c	Review structural steel and erection for conformance to approved shop drawings	Verify all member sizes, piece marks and connection details.		
	1.2d	Inspect welded connections.	Verify correct weld filler processes and weld rod storage. Provide continuous inspection of complete and partial penetration groove welds and for fillet welds greater than 5/16". Periodically inspect fillet welds equal to or less than 5/16". Visually inspect all welds.	Inspector shall be qualified according to AWS D1.1.	
	1.2e	Inspect field bolting installation in accordance with Section 9 of RCSC Specification for Structural Joints Using ASTM A325 or A490 Bolts.	Visually inspect all bolts. During installation, verify bolts, nuts, washers, paint, bolted parts and installation and tightening procedures are in compliance with referenced standards. Periodically inspect the installation of snug-tightened connections. Verify that all plies of all snug-tightened connections are drawn together. At pretensioned bolted connections, observe the pre-installation testing and calibration procedures when such procedures are required for the installation method. Provide continuous monitoring for pretensioned connections utilizing calibrated wrench method or turn of the nut method without matchmarking. Provide periodic monitoring of pretensioned bolted connections utilizing the turn of the nut method, or the twist-off bolt method.		
	1.2f	Review Bracing connections.	Visually inspect all.		
	1.2g	Review Column splices.	Visually inspect all.		
	1.2h	Review shear connections	Visually inspect all.		
	STEEL STAIRS AND GUARDRAILS NOTE: special inspector may waive Fabricator shop inspection if the fabricator is currently certified through the AISC Quality Certification program.	1.5a	Review Fabricator QA/QC Procedures manual.	Special Inspector to review.	
1.5b		Review Fabricator QA/QC procedures implementation and conformance.	One shop inspection required. Visual inspection of shop conformance.		
1.5c		Review welder certifications.	Verify welder qualification in accordance with AWS D1.1. Obtain certification numbers for all welders.		
1.5d		Review shop drawings.	Verify approval		
1.5e		Inspect welded connections.	Perform continuous inspection of complete and partial penetration groove welds and fillet welds larger than 5/16". Perform periodic inspection of fillet welds 5/16" and smaller. Visually inspect all welds after completion.		
1.5f		Inspect bolted connections utilizing high-strength bolts.	Periodically inspect installation of high-strength bolts. Verify that all plies of all connections are drawn together.		

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Steel Stairs and Guardrail Systems - Erection	1.6a	Review welder certification.	Verify welder qualification in accordance with AWS D1.1. Obtain certification numbers for all welders.		
	1.6b	Inspect welded connections.	Perform continuous inspection of complete and partial penetration groove welds and fillet welds larger than 5/16". Perform periodic inspection of installation of fillet welds 5/16" and smaller. Visually inspect all welds after completion.		
	1.6c	Inspect bolted connections utilizing high-strength bolts.	Periodically inspect installation of high strength bolts. Verify that all plies are drawn together.		
	1.6d	Inspect installation.	Perform periodic inspection in progress and complete inspection at completion verifying all members and connections conform with the contract documents and approved shop drawings.		
SECONDARY / MISC STRUCTURAL STEEL	1.7a	Review girts connections.	Visually inspect all.		
	1.7b	Review welder certification.	Obtain certification numbers for all welders.		
	1.7c	Review brick relieving angle connections/installation.	Visually inspect all. Verify member size and connections to structure.		
	1.7d	Review details of steel frames.	Visually inspect all.		
	1.7e	Inspect bolted connections utilizing high-strength bolts.	Periodically inspect installation of high-strength bolts. Verify that all plies of all connections are drawn together.		
	1.7f	Review fabrication for conformance with approved shop drawings.	Verify member sizes, piece marks, and connection details match approved shop drawings.		
Steel Deck Erection	1.8a	Review steel deck shop drawings.	Verify approval.		
	1.8b	Review welder certification.	Verify welder qualification in accordance with AWS D1.1. Obtain certification numbers of all welders.		
	1.8c	Verify number, type, and location of steel deck connection to framing and side lap fasteners.	Visually inspect all. Verify welds comply with AWS D1.3 requirements.		
	1.8d	Inspect installation of shear connectors.	Prior to starting, verify materials and weld processes are in compliance with AWS requirements and construction documents. Periodically inspect shear connector installation. Inspect soundness of all welds. Verify number and location of all. Random test 20% of all connectors in accordance with AWS Chapter 5.		
SECTION 2 - CONCRETE CONSTRUCTION (IBC 2003 - 1704.4)					
CONCRETE MATERIALS	2.1a	Review mix design.	Verify approval of all mixes intended for use.		
	2.1b	Review reinforcement grade.	Inspect identifying marks on reinforcing steel.		
	2.1c	Review submittals.	Verify acceptance of propriety products and reinforcing steel shop drawings. Review requirements of reinforcing steel on placement drawings.		
REINFORCING AND PRESTRESSING STEEL	2.2a	Inspect condition and placement of reinforcing steel.	All reinforcing steel at walls, spread footings, columns and beams and column piers. Check prior to each concrete placement.		

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ANCHOR BOLTS	2.2b	Inspect bolt types; verify bolts embedment for compliance with contract documents.	Visually inspect at all steel column locations.		
FORMWORK	2.3a	Verify acceptability of substrate.	Prior to each concrete placement.		
	2.3b	Verify dimensions and materials acceptability.	Prior to each concrete placement.		
EMBEDMENTS	2.4a	Inspect installation of anchor bolts, masonry dowels and other embedded items.	Inspect for each concrete placement.		
CONCRETE OPERATIONS	2.5a	Field testing of concrete slump, temperature, and air content.	All concrete placements.		
	2.5b	Take concrete cylinder samples and perform compressive strength test.	All concrete placements.		
	2.5c	Observe concrete placement.	Inspect placement procedures at all concrete placements.		
	2.5d	Observe concrete curing technique and temperature.	Once daily when air temperature is above 32°F. Twice daily when temperature is below 32°F.		
ELEVATED CONCRETE	2.9a	Inspect placement of elevated concrete for compliance with contract documents.	Visually inspect all placement and curing.		
SECTION 3 - MASONRY CONSTRUCTION (IBC 2003 - 1704.5)					
REINFORCED MASONRY AND MASONRY VENEER	3.1a	Review submittals.	Verify approval of mortar mixes, mortar ingredients, reinforcing, steel shop drawings, veneer anchor assemblies, and other items requiring SER approval per the Construction Documents.		
	3.1b	Inspect mixing of site-prepared mortar.	Periodically verify mix proportions for compliance with approved mix.		
	3.1c	Inspect mortar placement.	Periodically inspect.		
	3.1d	Inspect installation of veneer anchors.	Periodically inspect material, location, and attachment of veneer anchors.		
	3.1e	Inspect deformed bar reinforcement.	Periodically inspect reinforcement grade size, location of placement, method of securing in place, and lap splices during installation and prior to grout placement.		
	3.1f	Inspect joint reinforcement.	Verify product installed complies with approved submittal. Periodically check spacing and additional requirements at openings.		
	3.1g	Inspect size and location of structural elements.	Verify member sizes and layout of all structural members.		
	3.1h	Inspect cold weather and hot weather installation.	Inspect procedures daily when air temperature is below 40 degrees F or above 90 degrees F at any time in the day.		
	3.1i	Inspect grout placement.	Periodically inspect grout spaces prior to grout placement. Periodically inspect grout mixing and placement.		
	3.1j	Field testing of mortar, grout, and prisms.	Perform construction testing in accordance with the Contract Documents.		

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SECTION 5 - SOILS (IBC 2003 - 1704.7)					
SOILS	5.1a	Inspect site preparation and soil conditions prior to placement of fill for conformance with contract documents and soils report.	All under building footprint.		
	5.1b	Inspect testing and placement of fill material for conformance with contract documents and soils report.	Required for all fill more than 12" deep.		
	5.1c	Review soils compaction testing for compliance with contract documents and soils report.	See contract documents for testing frequency.		
SECTION 7 - SPRAYED-FIRE-RESISTANT MATERIALS (IBC 2003 - 1704.11)					
SPRAYED-ON FIREPROOFING	7.1a	Inspect surface of structural members to be sprayed for conformance with contract documents.	Visually inspect all.		
	7.1b	Observed application conditions for conformance with the approved manufacturer's written instructions.	At each fireproofing application.		
	7.1c	Observe field-testing of thickness, density, and bond strength of the sprayed fire resistive material for compliance with contract documents.	As specified in IBC 2003, Section 1704.11.3 and 4.		
SECTION 8 - EIFS (IBC 2003 - 1704.12)					
EIFS Special inspections are not required for EIFS applications installed over a water-resistant barrier with a means of draining moisture to the exterior.	8.1a	Inspect EIFS installation	Visually inspect all.		
SECTION 9 - SPECIAL CASES (IBC 2003 1704.13)					
	9.1a				
	9.1b				
SECTION 10 - SMOKE CONTROL (IBC 2003 - 1704.14)					
SMOKE CONTROL	10.1a	Test scope shall be as follows: 1. During erection of ductwork and prior to concealment for the purposes of leakage testing and recording of device location. 2. Prior to occupancy and after sufficient completion for the purposes of pressure difference testing, flow measurements and detection and control verification.	To be coordinated by the project mechanical engineer.	Special inspection agencies for smoke control shall have expertise in fire protection engineering, mechanical engineering and certification as air balancers.	

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SECTION 11 - QUALITY ASSURANCE OF SEISMIC RESISTANCE (IBC 2003 - 1705)					
MEP	11.a	Quality assurance plan for seismic requirements shall be provided in accordance with Sections 1705, 1707.7 and 1708.5.	To be coordinated by the project MEP engineers.		