

STATEMENT OF SPECIAL INSPECTIONS - GENERAL NOTES:

SPECIAL INSPECTION AS SPECIFIED IS REQUIRED OF THE MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS REQUIRING SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. SPECIAL INSPECTORS SHALL MEET THE MINIMUM QUALIFICATIONS OF SOUTH CAROLINA BUILDING CODE 2015 SECTION 1704.2.1. CERTIFICATION IN ACCORDANCE WITH THE INTERNATIONAL CODE COUNCIL'S NATIONAL CERTIFICATION PROGRAM FOR SPECIAL INSPECTION QUALIFIES AS HAVING MET THE REQUIREMENTS OF THE SOUTH CAROLINA BUILDING CODE 2015, SECTION 1704.2.1.

CONTRACTOR RESPONSIBILITY:

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND-OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND-OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE ENGINEER OF RECORD.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS, AND
4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

SEISMIC FORCE RESISTING SYSTEMS:

BEARING WALL SYSTEMS: ORDINARY REINFORCED MASONRY SHEAR WALLS

REQUIRED VERIFICATION AND INSPECTION OF SOILS:

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REQUIRED	
			YES	NO
VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		X	X	
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X	X	
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		X	X	
VERIFY USED OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X		X	
PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X	X	

REQUIRED VERIFICATION AND INSPECTION OF STRUCTURAL STEEL CONSTRUCTION:

SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360-10, SECTION N.

SPECIAL INSPECTION FOR STRUCTURAL STEEL FOR SEISMIC FORCE-RESISTING SYSTEMS SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF AISC 341-10, SECTION J IN ADDITION TO THE REQUIREMENTS OF AISC 360-10, SECTION N.

SUMMARY OF AISC 360-16, SECTIONS NS:

THIS IS A SUMMARY PROVIDED FOR CONVENIENCE ONLY AND SHALL NOT RELIEVE THE CONTRACTOR OR INSPECTOR OF ANY REQUIREMENTS OF AISC 360-16:

OBSERVE (O): THE INSPECTOR SHALL OBSERVE THESE FUNCTIONS ON A RANDOM, DAILY BASIS. OPERATIONS NEED NOT BE DELAYED PENDING OBSERVATIONS.

PERFORM (P): THESE TASKS SHALL BE PERFORMED FOR EACH WELDED JOINT OR MEMBER.

AISC 360-16, SECTION N5 - MINIMUM REQUIREMENTS FOR INSPECTION OF STRUCTURAL STEEL BUILDINGS:

AISC 360-16, TABLE N5.4-1:		
INSPECTION TASKS PRIOR TO WELDING		
	QC	QA
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	P	O
WPS AVAILABLE	P	P
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O
WELDER IDENTIFICATION SYSTEM (A)	O	O
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY):		
- JOINT PREPARATION		
- DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	O	O
- CLEANLINESS (CONDITION OF STEEL SURFACES)		
- TACKING (TACK WELD QUALITY AND LOCATION)...		
FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY):		
- JOINT PREPARATION		
- DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	P	O
- CLEANLINESS (CONDITION OF STEEL SURFACES)		
- TACKING (TACK WELD QUALITY AND LOCATION)...		
CONFIGURATION AND FINISH OF ACCESS HOLES	O	
FIT-UP OF FILLET WELDS		
- DIMENSIONS (ALIGNMENT, GAPS AT ROOT)		
- CLEANLINESS (CONDITION OF STEEL SURFACES)		
- TACKING (TACK WELD QUALITY AND LOCATION)...		
CHECK WELDING EQUIPMENT		
(A) THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED SHALL BE THE LOW-STRESS TYPE.		

AISC 360-16, TABLE N5.4-2:		
INSPECTION TASKS DURING WELDING		
	QC	QA
CONTROL AND HANDLING OF WELDING CONSUMABLES		
- PACKAGING	O	O
- EXPOSURE CONTROL	O	O
NO WELDING OVER CRACKED TACK WELDS	O	O
ENVIRONMENTAL CONDITIONS		
- WIND SPEED WITHIN LIMITS	O	O
- PRECIPITATION AND TEMPERATURE		
WPS FOLLOWED		
- SETTINGS ON WELDING EQUIPMENT		
- TRAVEL SPEED		
- SELECTED WELDING MATERIALS	O	O
- SHIELDING GAS TYPE/FLOW RATE		
- PREHEAT APPLIED		
- INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)		
- PROPER POSITION (F, V, H, OH)		
WELDING TECHNIQUES		
- INTERPASS AND FINAL CLEANING	O	O
- EACH PASS WITHIN PROFILE LIMITATIONS		
- EACH PASS MEETS QUALITY REQUIREMENTS		
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	P

AISC 360-16, TABLE N5.4-3:		
INSPECTION TASKS AFTER WELDING		
	QC	QA
WELDS CLEANED	O	O
SIZE, LENGTH, AND LOCATION OF WELDS	P	P
WELDS MEET VISUAL ACCEPTANCE CRITERIA		
- CRACK PROHIBITION	P	P
- WELD/BASE-METAL FUSION		
- CRATER CROSS SECTION		
- WELD PROFILES AND SIZE		
- UNDERCUT		
- POROSITY		
ARC STRIKES	P	P
K-AREA (A)	P	P
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES (B)	P	P
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P
REPAIR ACTIVITIES	P	P
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	O	O
(A) WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAVE BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WELD K-AREA FOR CRACKS WITHIN 3 INCHES OF THE WELD		
(B) AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1C) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1D) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.		

REQUIRED VERIFICATION AND INSPECTION OF WOOD CONSTRUCTION:

THE SPECIAL INSPECTOR SHALL VERIFY MANUFACTURER'S APPROVED QUALITY CONTROL PROCEDURES OF STRUCTURAL WOOD TRUSSES.

THE SPECIAL INSPECTOR SHALL INSPECT WOOD STRUCTURAL PANEL SHEATHING TO ASCERTAIN WHETHER IT IS OF THE GRADE AND THICKNESS SHOWN ON THE APPROVED BUILDING PLANS. ADDITIONALLY, THE SPECIAL INSPECTOR MUST VERIFY THE NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, THE NAIL DIAMETER AND LENGTH, THE NUMBER OF FASTENER LINES AND THAT THE SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS AGREES WITH THE APPROVED CONSTRUCTION DOCUMENTS.

PERIODIC SPECIAL INSPECTION IS REQUIRED FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING COMPONENTS WITHIN THE MAIN WIND OR SEISMIC FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS AND HOLD-DOWNS.

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION:				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REQUIRED	
			YES	NO
INSPECTION OF REINFORCING STEEL AND PLACEMENT		X	X	
INSPECTION OF ANCHORS CAST IN CONCRETE		X	X	
INSPECTIONS OF OTHER MECHANICAL OR ADHESIVE ANCHORS		X	X	
VERIFYING USE OF REQUIRED DESIGN MIX		X	X	
AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TEST, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.		X	X	
SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN:				
- ONCE A DAY				
- ONCE FOR EACH 50 CUBIC YARDS				
- ONCE FOR EACH 2000 SQUARE FEET OF SURFACE AREA FOR SLABS AND WALLS				
INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X		X	
INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		X	X	

REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION:

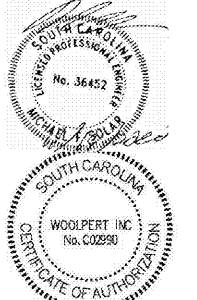
SPECIAL INSPECTION AND TESTS FOR MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE PROGRAM REQUIREMENTS OF THE MASONRY SOCIETY (TMS) 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6.

LEVEL B QUALITY ASSURANCE OF MASONRY CONSTRUCTION				
MINIMUM TESTS				
VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5B.1.b.3 FOR SELF-CONSOLIDATING GROUT				
VERIFICATION OF FM AND FAAC IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4B PRIOR TO CONSTRUCTION, EXCEPT WHEN SPECIFICALLY EXEMPTED BY CODE				
MINIMUM SPECIAL INSPECTION				
INSPECTION TASK	FREQUENCY(a)		REFERENCE TO CRITERIA	
	CONTINUOUS	PERIODIC	TMS 402/ACI 530/ASCE 5	AS 602/ACI 530.1/ASCE 6
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		X		1.1.5
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
a. PROPORTIONS OF SITE-PREPARED MORTAR				Art. 2.1, 2.6 A
b. CONSTRUCTION OF MORTAR JOINTS		X		Art. 3.3 B
c. LOCATION OF REINF. AND CONNECTORS		X		Art. 3.4, 3.6 A
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
a. GROUT SPACE		X		Art. 3.2 D, 3.2 F
b. GRADE, TYPE, AND SIZE OF REINF. AND ANCHOR BOLTS		X		Sect. 6.1 Art. 2.4, 3.4
c. PLACEMENT OF REINF. AND CONNECTORS		X		Sect. 6.1, 6.2.1, 6.2.6, 6.2.7 Art. 3.2 E, 3.4, 3.6 A
d. PROPORTIONS OF SITE-PREPARED GROUT		X		Art. 2.6 B, 2.4 G.1 b
e. CONSTRUCTION OF MORTAR JOINTS		X		Art. 3.3 B
4. VERIFY DURING CONSTRUCTION:				
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		X		Art. 3.3 F
b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OR ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		X		Sect. 1.2.1(e), 6.1.4.3, 6.2.1
c. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)		X		Art. 1.8 C, 1.8 D
d. PLACEMENT OF GROUT IS IN COMPLIANCE		X		Art. 3.5, 3.6 C
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		X		Art. 1.4 B.2 a.3, 1.4 B.2 b.3, 1.4 B.2 c.3, 1.4 B.3, 1.4 B.4

(a) FREQUENCY REFERS TO THE FREQUENCY OF SPECIAL INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODIC DURING THE LISTED TASK, AS DEFINED IN THE TABLE.



11301 Carmel Commons
Boulevard, Suite 300
Charlotte, NC 28226
704.525.6284
FAX: 704.525.0115



Lancaster County, South Carolina
Heath Springs Soccer Complex
Lancaster County Parks & Recreation Soccer Complexes
200 Boyd Falls Road
Heath Springs, SC 29058

Revisions:

1	County Permit Review 1	11/20/20
---	------------------------	----------

Project No: 080703

Date: 10/09/2020

Sheet Name:
SPECIAL INSPECTION

S-003