SPECIAL INSPECTIONS FOR STEEL CONSTRUCTION

VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTIONS	
	CONTINUOUS	PERIODIC
MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:		
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	--	X
b. MANUFACTURERS CERTIFICATE OF COMPLIANCE REQUIRED	--	X
INSPECTION OF HIGH-STRENGTH BOLTING:		
a. SNUG-TIGHT JOINTS	--	X
b. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT, OR DIRECT TENSION INDICATORY METHODS OF INSTALLATION	--	X
c. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION	X	--
MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:		
a. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360	--	X
b. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	--	X
c. MANUFACTURERS CERTIFIED TEST REPORTS	--	X
MATERIAL VERIFICATION OF WELD FILLER MATERIALS:		
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	--	X
b. MANUFACTURERS CERTIFICATE OF COMPLIANCE REQUIRED	--	X
INSPECTION OF WELDING:		
a. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:	--	--
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	X	--
2) MULTIPASS FILLET WELDS	X	--
3) SINGLE-PASS FILLET WELDS > 5/16"	X	--
4) PLUG AND SLOT WELDS	X	--
5) SINGLE-PASS FILLET WELDS ≥ 5/16"	--	X
6) FLOOR AND ROOF DECK WELDS	--	X

SPECIAL INSPECTIONS FOR CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTIONS	
	CONTINUOUS	PERIODIC
INSPECTION OF REINFORCING STEEL PLACEMENT	--	X
INSPECTION OF REINFORCING STEEL WELDING	--	--
INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED	--	X
INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS	--	X
VERIFYING USE OF REQUIRED DESIGN MIX	--	X
AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	--
INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	--
INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	--	X
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	--	X

SPECIAL INSPECTIONS OF SOILS

VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTIONS	
	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	--	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	--	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED MATERIALS	--	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	--
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	--	X

SPECIAL INSPECTIONS FOR MASONRY CONSTRUCTION

VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTIONS	
	CONTINUOUS	PERIODIC
COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED	--	X
VERIFICATION OF COMPRESSION STRENGTH (f'm, f'AAC) PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE	--	X
VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT	X	--
AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
a. PROPORTIONS OF SITE-PREPARED MORTAR	--	X
b. CONSTRUCTION OF MORTAR JOINTS	--	X
PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
a. GROUT SPACE IS CLEAN	--	X
b. GRADE, TYPE AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND ANCHORAGES	--	X
c. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND ANCHORAGES	--	X
e. CONSTRUCTION OF MORTAR JOINTS	--	X
DURING CONSTRUCTION THE FOLLOWING SHALL BE VERIFIED:		
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	--	X
b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION	--	X
c. WELDING OF REINFORCING BARS	X	--
d. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)	--	X
g. VERTICAL MASONRY FOUNDATION ELEMENTS	--	X

SPECIAL INSPECTIONS FOR WOOD CONSTRUCTION

VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTIONS	
	CONTINUOUS	PERIODIC
1. FABRICATOR CERTIFICATION / QUALITY CONTROL PROCEDURES:		
a. VERIFY THAT TRUSS AND WALL PANEL SUPPLIERS MEET OR EXCEED ESTABLISHED STANDARDS OF PRACTICE	--	X
b. VERIFY THAT LUMBER IS WELL MARKED AND CONFORMS TO STANDARDS ESTABLISHED BY A NATIONAL GOVERNING AGENCY, I.E. SOUTHERN PINE INSPECTION BUREAU (SPIB), WEST COAST LUMBER INSPECTION BUREAU (WCLIB) OR WESTERN WOOD PRODUCTS ASSOCIATION (WWPA)	--	X
2. MATERIAL GRADING:		
a. VERIFY THAT THE SIZE, LOCATION, SPACING, SPECIES, AND GRADE OF ALL WOOD BEAMS, HEADERS, STUDS, AND TRUSSES ARE IN CONFORMANCE WITH THE STRUCTURAL CONSTRUCTION DOCUMENTS AND REVIEWED SHOP DRAWINGS	--	X
b. VERIFY TYPE AND THICKNESS OF ROOF AND FLOOR SHEATHING	--	X
3. CONNECTIONS:		
a. VERIFY THAT THE NAILING PATTERNS, STRAPPING, AND ANCHOR TO FOUNDATION OF HORIZONTAL DIAPHRAGMS AND SHEAR WALLS ARE IN CONFORMANCE WITH THE STRUCTURAL CONSTRUCTION DOCUMENTS	--	X
b. VERIFY THAT TRUSS AND BEAM HANGERS ARE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS	--	X
4. VERIFY THAT THE WOOD STRUCTURAL DETAILS IN THE DESIGN DOCUMENTS HAVE BEEN PROPERLY IMPLEMENTED AT THE REQUIRED LOCATIONS	--	X
5. HIGH-LOAD DIAPHRAGMS		
a. VERIFY GRADE AND THICKNESS OF WOOD STRUCTURAL PANEL SHEATHING AS SHOWN ON THE APPROVED BUILDING PLANS	--	X
b. VERIFY THE NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, THE NAIL OR STAPLE DIAMETER AND LENGTH, THE NUMBER OF FASTENER LINES, AND THE SPACING BETWEEN FASTENERS IN EACH LINE AND EDGE MARGINS PER APPROVED BUILDING PLANS	--	X
6. METAL-PLATE CONNECTED WOOD TRUSSES SPANNING 60 FEET OR GREATER:		
a. VERIFY THAT TEMPORARY INSTALLATION RESTRAINT / BRACING IS INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE	--	X
b. VERIFY THAT PERMANENT INSTALLATION OF INDIVIDUAL TRUSS MEMBER RESTRAINT / BRACING IS INSTALLED IN ACCORDANCE WITH APPROVED SUBMITTAL PACKAGE	--	X

SPECIAL INSPECTIONS NOTES:

1. PER THE CONTRACT REQUIREMENTS, THE OWNER WILL ENGAGE THE SERVICES OF ONE OR MORE INSPECTION AGENCIES TO PROVIDE INSPECTION SERVICES DURING CONSTRUCTION ON WORK INDICATED IN THE SCHEDULE OF SPECIAL INSPECTIONS. IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 17 OF THE 2009 INTERNATIONAL BUILDING CODE.
2. SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED ON A CONTINUOUS OR PERIODIC FREQUENCY AS NOTED IN THE SCHEDULE.
3. REFER TO THE GENERAL NOTES, SPECIFICATIONS, AND GEOTECHNICAL REPORT FOR ADDITIONAL INSPECTION AND TESTING REQUIREMENTS.
4. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT RECTIFIED, THE ENGINEER OF RECORD SHALL BE NOTIFIED PRIOR TO COMPLETION OF THAT PHASE OF WORK.
5. EACH INSPECTION AGENCY SHALL SUBMIT INSPECTION REPORTS TO THE CONTRACT, ARCHITECT, OWNER OR ENGINEER OF RECORD FOR REVIEW. REPORTS SHALL DOCUMENT REQUIRED INSPECTIONS AND CORRECTIONS OF ANY DISCREPANCIES. REPORTS SHALL BE PROVIDED AT INTERVALS CONVEYING THE PROGRESS OF CONSTRUCTION.

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CONSTRUCTION DOCUMENTS

November 29, 2017

TITLE
SPECIAL INSPECTIONS

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