SPECIAL INSPECTION SCHEDULES

SEE EARTHQUAKE DESIGN DATA SECTION OF THE GENERAL STRUCTURAL NOTES ON SHEET [SXX.XX] FOR SEISMIC-FORCE RESISTING-SYSTEMS. SEISMIC-FORCE-RESISTING SYSTEMS (INCLUDING DRAG STRUTS AND CHORDS) ARE SUBJECT TO SPECIAL INSPECTION IN ACCORDANCE WITH THE FOLLOWING SEISMIC AND NON-SEISMIC TABLES. STRUCTURAL SYSTEMS NOT PART OF THE SEISMIC-FORCE-RESISTING SYSTEM NEED ONLY BE INSPECTED IN ACCORDANCE WITH NON-SEISMIC TABLES.

STRUCTURAL STEEL SPECIAL INSPECTION

SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE ACCORDANCE WITH AISC 341, AISC 360, AND THE FOLLOWING INFORMATION.

TASK - INDICATES WHETHER TO OBSERVE OR PERFORM (OR BOTH) THE INSPECTION TASK.

- DOC THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- O THESE FUNCTIONS ON A RANDOM, DAILY BASIS, OPERATIONS NEED NOT BE DELAYED PENDING INSPECTIONS. FREQUENCY OF OBSERVATIONS SHALL BE ADEQUATE TO CONFIRM THAT THE WORK HAS BEEN PERFORMED INACCORDANCE WITH THE APPLICABLE DOCUMENTS.
- P PERFORM, FOR EACH JOINT OR MEMBER PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM.
- QC TASKS INDICATED AS "QC" SHALL BE EXECUTED BY THE FABRICATOR AND ERECTOR IN ACCORDANCE WITH AISC 360 CHAPTER N.
- QA TASKS INDICATED AS "QA" SHALL BE EXECUTED BY THE SPECIAL INSPECTOR IN ACCORDANCE WITH AISC 360 CHAPTER N.

WELDING

INSPECTION TASKS PRIOR TO WELDING		REFERENCED STANDARD	IBC REFERENCE	
INSPECTION TASKS PRIOR TO WELDING	QC	QA		
WELDING PROCEDURE SPECIFICATIONS (WPSS) AVAILABLE	Р	Р		
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	Р	Р		
MATERIAL IDENTIFICATION (TYPE / GRADE)	0	0		
WELDER IDENTIFICATION SYSTEM 1	0	0		
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)	0	0	AISC 360 CH. N AND AWS D1.1	1705.2.1
CONFIGURATION AND FINISH OF ACCESS HOLES	0	0		
FIT-UP OF FILLET WELDS, DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION)	0	0		
CHECK WELDING EQUIPMENT	0	-		
INSPECTION TASKS DURING WELDING			REFERENCED STANDARD	IBC REFERENCE
INSPECTION TASKS DURING WELDING	QC	QA		1705.2.1
USE OF QUALIFIED WELDERS	0	0	AISC 360 CH. N AND AWS D1.1	
CONTROL AND HANDLING OF WELDING CONSUMABLES, PACKAGING, EXPOSURE CONTROL	0	0		
NO WELDING OVER CRACKED TACK WELDS	0	0		
ENVIRONMENTAL CONDITIONS, WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE	0	0		
WPS FOLLOWED, SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE / FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED (MINIMUM / MAXIMUM), PROPER POSITION (F, V, H, OH)	0	0		
WELDING TECHNIQUES, INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETS QUALITY REQUIREMENTS	0	0		
INSPECTION TASKS AFTER WELDING				IBC REFERENCE
INSPECTION TASKS AFTER WELDING	QC	QA		
WELDS CLEANED	0	0		
SIZE, LENGTH AND LOCATION OF WELDS	Р	Р		
WELDS MEET VISUAL ACCEPTANCE CRITERIA, CRACK PROHIBITION, WELD / BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY	Р	Р	AISC 360 CH. N	
ARC STRIKES	Р	Р	AND AWS D1.1	1705.2.1
k-AREA ²	Р	Р		
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	Р	Р		
REPAIR ACTIVITIES	Р	Р		
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	Р	Р		

- ¹ 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.
- WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3 INCHES OF WELD.

BOLTING

INSPECTION TASKS PRIOR TO BOLTING	REFERENCED STANDARD	IBC REFERENCE		
INSPECTION TASKS PRIOR TO BOLTING	QC	QA		
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	S AVAILABLE FOR FASTENER MATERIALS O F			
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	NERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS O O			
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	0	0		1705.2.1
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	0	0	AISC 360 CH. N	
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	0	0	71100 000 011.14	
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	Р	0		
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	0	0		
INSPECTION TASKS DURING BOLTING	REFERENCED STANDARD	IBC REFERENCE		
INSPECTION TASKS DURING BOLTING				
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	0	0		
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	V 0	0	AISC 360 CH. N	1705.2.1
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	0	0		
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	0	0		
INSPECTION TASKS AFTER BOLTING			REFERENCED STANDARD	IBC REFERENCE
INSPECTION TASKS AFTER BOLTING		QA	AISC 360 CH. N	1705.2.1
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	Р	Р	AISC 300 CI I. N	1100.2.1

SPECIAL INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD ¹	IBC REFERENCE
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS AND PLACEMENT	-	Х	ACI 318: CH. 20, 25.2, 25.3, 26.6.1 - 26.6.3	1908.4
2. REINFORCING BAR WELDING:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	-	Х	AWS D1.4 ACI 318: 26.6.4	
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	-	Χ		-
c. INSPECT ALL OTHER WELDS	Х	-	-	
3. INSPECT ANCHORS CAST IN CONCRETE	-	Х	ACI 318: 17.8.2	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS ²				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	Х	-	ACI 318: 17.8.2.4	-
 b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4a 	-	X	ACI 318: 17.8.2	-
5. VERIFY USE OF REQUIRED DESIGN MIX	-	Х	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3, 1908.10
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	Х	-	ASTM C 172 ASTM C 31 ACI 318: 26.4, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	Χ	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR:				
a. APPLICATION OF PRESTRESSING FORCES	Х	-	ACI 318: 26.10	
b. GROUTING OF BONDED PRESTRESSING TENDONS	Х	-	ACI 310. 20.10	-
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	-	Х	ACI 318: 26.8	-
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	-	Х	ACI 318: 26.11.2	-
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	-	Х	ACI 318: 26.11.1.2 ²	-

- WHERE APPLICABLE, SEE ALSO IBC SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED
- ² SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF WORK.

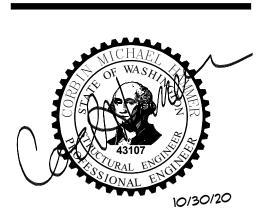
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ISSUE DATE OCTOBER 30, 2020

REVISION SCHEDULE

SPECIAL INSPECTION SCHEDULES

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SPECIAL INSPECTION SCHEDULES

SPECIAL INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION	AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD ¹	IBC REFERENCE
INSPECT REINFORCEMENT, INC AND PLACEMENT	CLUDING PRESTRESSING TENDONS	-	Х	ACI 318: CH. 20, 25.2, 25.3, 26.6.1 - 26.6.3	1908.4
2. REINFORCING BAR WELDING:					
a. VERIFY WELDABILITY OF RI ASTM A706	EINFORCING BARS OTHER THAN	-	X	AWS D1.4	
b. INSPECT SINGLE-PASS FILL	ET WELDS, MAXIMUM 5/16"	-	Х	ACI 318: 26.6.4	-
c. INSPECT ALL OTHER WELD	S	Х	-		
3. INSPECT ANCHORS CAST IN CO	NCRETE	-	Χ	ACI 318: 17.8.2	-
4. INSPECT ANCHORS POST-INST MEMBERS ²	ALLED IN HARDENED CONCRETE				
a. ADHESIVE ANCHORS INSTA UPWARDLY INCLINED ORIE TENSION LOADS	LLED IN HORIZONTALLY OR NTATIONS TO RESIST SUSTAINED	X	-	ACI 318: 17.8.2.4	-
b. MECHANICAL ANCHORS AN DEFINED IN 4a	D ADHESIVE ANCHORS NOT	-	Χ	ACI 318: 17.8.2	-
5. VERIFY USE OF REQUIRED DES	IGN MIX	-	Х	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3, 1908.10
6. PRIOR TO CONCRETE PLACEMI FOR STRENGTH TESTS, PERFC TESTS, AND DETERMINE THE T		Х	-	ASTM C 172 ASTM C 31 ACI 318: 26.4, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTAPPLICATION TECHNIQUES	CRETE PLACEMENT FOR PROPER	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPE AND TECHNIQUES	CIFIED CURING TEMPERATURE	-	Χ	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRESTRESSED CONC	RETE FOR:				
a. APPLICATION OF PRESTRE	SSING FORCES	X	-	ACI 318: 26.10	
b. GROUTING OF BONDED PR	ESTRESSING TENDONS	X	-	ACI 310. 20.10	-
10. INSPECT ERECTION OF PRECA	ST CONCRETE MEMBERS	-	Χ	ACI 318: 26.8	-
TENDONS IN POST-TENSIONED	RENGTH, PRIOR TO STRESSING OF CONCRETE AND PRIOR TO REMOVAL BEAMS AND STRUCTURAL SLABS	-	X	ACI 318: 26.11.2	-
12. INSPECT FORMWORK FOR SHA THE CONCRETE MEMBER BEIN	APE, LOCATION AND DIMENSIONS OF G FORMED	-	Х	ACI 318: 26.11.1.2 ²	-

- WHERE APPLICABLE, SEE ALSO IBC SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED
- ² SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF WORK.

SEISMIC REQUIREMENTS FOR WOOD CONSTRUCTION

	VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
[1. FIELD GLUING OF SEISMIC ELEMENTS	Х		AF AND PA SDPWS - 2015	1705.12.2
2	2. NAILING BOLTING, ANCHORING AND FASTENING OF WOOD SHEAR WALLS, WOOD DIAPHRAGM, COLLECTORS / DRAG STRUTS, BRACES, SHEAR PANELS AND HOLDOWNS		Х	AF AND PA SDPWS - 2015	1705.12.2

REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	REFERENCE STANDARD	IBC REFERENCE
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	-	Х	-	1705.6
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	-	Х	-	1705.6
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	-	Х	-	1705.6
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	Х	-	-	1705.6
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	-	Х	-	1705.6

NON-STRUCTURAL COMPONENTS SEISMIC REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCED
1. DESIGNATED SEISMIC SYSTEM				
a. VERIFY THE LABEL, ANCHORAGE AND MOUNTING CONFORMS TO THE CERTIFICATE OF COMPLIANCE		Х	ASCE 7 SECTION 13.2	1705.12.4
2. ARCHITECTURAL COMPONENTS				
 a. ERECTION AND FASTENING OF b. EXTERIOR CLADDING 1,2 		Х	-	1705.12.5
b. ERECTION AND FASTENING OF INTERIOR ³ AND EXTERIOR NON-BEARING WALLS ^{1, 2}		Х	-	1705.12.5
c. ERECTION AND FASTENING OF INTERIOR AND EXTERIOR VENEER 1,2		Х	-	1705.12.5
d. ANCHORAGE OF ACCESS FLOORS		Х	-	1705.12.5.1
3. PLUMBING, MECHANICAL AND ELECTRICAL COMPONENTS				
a. ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY AND STANDBY POWER SYSTEMS		Х	-	1705.12.6
b. ANCHORAGE OF OTHER ELECTRICAL EQUIPMENT		Х	-	1705.12.6
c. INSTALLATION AND ANCHORAGE OF PIPING SYSTEM DESIGNED TO CARRY HAZARDOUS MATERIALS AND THERE ASSOCIATED MECHANICAL UNITS		Х	-	1705.12.6
d. INSTALLATION AND ANCHORAGE OF DUCTWORK DESIGNED TO CARRY HAZARDOUS MATERIALS		Х	-	1705.12.6
e. INSTALLATION AND ANCHORAGE OF VIBRATION ISOLATION SYSTEM WHERE THE NOMINAL CLEARANCE BETWEEN THE EQUIPMENT SUPPORT FRAME AND RESTRAIN IS 1/4 INCH OR LESS		Х	-	1705.12.6
4. STORAGE RACK				
a. ANCHORAGE OF STORAGE RACKS 8 FEET OR GREATER IN HEIGHT		Х	-	1705.12.7

SPECIAL INSPECTION IS NOT REQUIRED FOR EXTERIOR CLADDING, INTERIOR AND EXTERIOR NONBEARING WALLS AND INTERIOR AND EXTERIOR VENEER 30 FEET OR LESS IN HEIGHT ABOVE GRADE [OR A WALKING SURFACE].

² SPECIAL INSPECTION IS NOT REQUIRED FOR EXTERIOR CLADDING AND INTERIOR AND EXTERIOR VENEER WEIGHING 5 PSF OR LESS. SPECIAL INSPECTION IS NOT REQUIRED FOR INTERIOR NON-BEARING WALLS WEIGHING 15 PSF OR LESS.

TESTS

CONCRETE

- a. VERIFICATION OF SPECIFIED CONCRETE COMPRESSIVE STRENGTH, f 'c, IN ACCORDANCE WITH ACI 318-14 SECTION 26.12.
- b. VERIFICATION OF SPECIFIED AIR CONTENT, SLUMP, AND TEMPERATURE IN ACCORDANCE WITH ACI 318-14 SECTION 26.12 AT TIMES FRESH CONCRETE IS SAMPLED.
- c. VERIFICATION OF SPECIFIED SHOTCRETE COMPRESSIVE STRENGTH, f 'c , IN ACCORDANCE WITH IBC 1908.10 AT LEAST ONCE PER SHIFT, BUT NOT LESS THAN 50 CUBIC YARDS OF SHOTCRETE.

GEOTECHNICAL

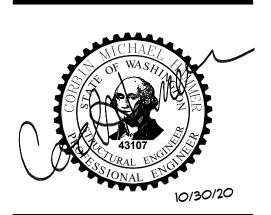
a. VERIFICATION OF SPECIFIED FILL CLASSIFICATION MOISTURE CONTENT, AND DENSITY IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

RICETERGUSMILLE

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SPECIAL INSPECTION SCHEDULES

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