**1704.4 Concrete construction.** The *special inspections* and verifications for concrete construction shall be as required by this section and Table 1704.4.

**Exception:** *Special inspections* shall not be required for:

- 1. Isolated spread concrete footings of buildings three stories or less above *grade plane* that are fully supported on earth or rock.
- 2. Continuous concrete footings supporting walls of buildings three stories or less above *grade plane* that are fully supported on earth or rock where:
- 2.1. The footings support walls of light-frame construction;
- 2.2. The footings are designed in accordance with Table 1809.7; or
- 2.3. The structural design of the footing is based on a specified compressive strength,  $f_c$ , no greater than 3,500 pounds per square inch (psi) (24 MPa), regardless of the compressive strength specified in the *construction documents* or used in the footing construction.
- 3. Nonstructural concrete slabs supported directly on the ground, including prestressed slabs on grade, where the effective prestress in the concrete is less than 150 psi (1.03 MPa).
- 4. Concrete foundation walls constructed in accordance with Table 1807.1.6.2.
- 5. Concrete patios, driveways and sidewalks, on grade.

## TABLE 1704.4 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD <sup>a</sup>	ADIBC REFERENCE
1. Inspection of reinforcing steel, including prestressing tendons, and placement.	_	X	ACI 318: 3.5, 7.1-	1913.4
2. Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5b.	_		AWS D1.4 ACI 318: 3.5.2	_
3. Inspection of bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased or where strength design is used.	Х	-	ACI 318: 8.1.3, 21.2.8	1911.5, 1912.1
<ol> <li>Inspection of anchors installed in hardened concrete.</li> </ol>	_	X	ACI 318: 3.8.6, 8.1.3, 21.2.8	1912.1
5. Verifying use of required design mix.	_	X	ACI 318: Ch. 4, 5.2- 5.4	1904.3, 1913.2, 1913.3
6. 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.	Х	_	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1913.10
7. Inspection of concrete and shotcrete placement for proper application techniques.	X		ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8