ACI 318-14 and ACI 318.2-14 to ACI 318-11

Building Code Requirements for Structural Concrete

Transition Key

American Concrete Institute
Always advancing

The following chart is a mapping of provisons from ACI 318-14 to ACI 318-11 and on page 93, ACI 318.2-14 to ACI 318-11. It is common that a provision may be a combination of several provisions from ACI 318-11. The code was mostly rewritten in the process of the reorganization; thus, the exact wording and context will not be the same at the new location.
Also, the reorganization needed new headings, introductions, scopes and pointers unique to ACI 318-14. Technical changes occurred that have altered or created new requirements. The following symbols are used in the Note column to more easily indentify the type of change, if any:

‡ = Heading, scope statement, introduction, or pointer to another section
~ = Technical change
BLANK = Editorial or no change

Chapter 1 - GENERAL

318-14	318-11	Note	Description
1.1	---	‡	**Heading: Scope of ACI 318**
1.1.1	---	‡	Scope of chapter
1.2	---	‡	**Heading: General**
1.2.1	New	~	Definition of "this Code"
1.2.2	1.1.1		
1.2.3	New	~	English version is the precedent for code interpretation
1.2.4	New	~	This is the official version for code interpretation
1.2.5	1.1.1		
1.2.6	1.1.2		
1.2.7	1.1.1		
1.3	---	‡	**Heading: Purpose**
1.3.1	New	~	Provides the minimum requirements for safety and health of public
1.3.2	New	~	Code can not anticipate all design issues
1.3.3	New	~	Does not cover construction means and methods
1.4	---	‡	**Heading: Applicability**
1.4.1	New	~	Applies to the design and construction of concrete structures
1.4.2	1.1.5		
1.4.3	---	‡	Pointer to ACI 318.2
1.4.4	1.1.8.1		
1.4.5	1.1.4		
1.4.6	1.1.6		
1.4.7	1.1.7		
1.4.8	1.1.10		
1.4.9	1.1.8.2		
1.5	---	‡	**Heading: Interpretation**
1.5.1	---	‡	Scope of interpretation
1.5.2	New	~	What is code
1.5.3	New	~	What is commentary
1.5.4	New	~	Conflict between provisions
1.5.5	New	~	Plain meaning of words
1.5.6	New	~	Meaning of certain words
1.5.7	New	~	Jurisdictional intervention

Chapter 1 - GENERAL

318-14	318-11	Note	Description
1.5.8	1.1.3		
1.6	**---**	**‡**	**Heading: Building official**
1.6.1	New	~	Define building official
1.6.2	New	~	Jurisdiction and the building official
1.6.3	3.1.1		
1.7	**---**	**‡**	**Heading: Licensed design professional**
1.7.1	New	~	Defined licensed design professional
1.8	**---**	**‡**	**Heading: Construction documents and design records**
1.8.1	1.2.1		
1.8.2	1.2.2		
1.9	**---**	**‡**	**Heading: Testing and inspection**
1.9.1	3.1.2		
1.9.2	---	‡	Pointer to Ch. 17 and 26
1.9.3	---	‡	Pointer to Ch. 17 and 26
1.10	**---**	**‡**	**Heading: Approval of special systems of design, construction, or alternative construction materials**
1.10.1	1.4		

Chapter 2 - NOTATION and TERMINOLOGY (Only the new or revised articles are shown)

318-14	318-11	Note	Description
2.1	**---**	**‡**	**Heading: Scope**
2.1.1	---	‡	Scope of chapter
2.2	**2.1**	**‡**	**Heading: Notation**
A_2	A_2	~	Revised notation
A_{pd}	New	~	Define P_o for prestressed columns
A_{pt}	New	~	Define P_o for prestressed columns
f_{cm}	New	~	Added notation for clarity
f_{ct}	New	~	Added notation for clarity
f_t	f_t	~	Revised notation
F_{us}	New	~	Added notation for clarity
F_{ut}	New	~	Added notation for clarity
h_u	New	~	Revised detailing for special structural walls
k_f	New	~	Revised confinement for columns
k_n	New	~	Revised confinement for columns
ℓ_{db}	New	~	Added notation for clarity
ℓ_{ext}	New	~	Added notation for clarity
ℓ_{sc}	New	~	Added notation for clarity
ℓ_{st}	New	~	Added notation for clarity
ℓ_{tr}	New	~	Added notation for clarity
n_ℓ	New	~	Revised confinement for columns
M_{sa}	New	~	Added notation for clarity
M_{sc}	M_{slab}	~	Revised notation
M_1	M_1	~	Changed sign convention
N_{cp}	New	~	Added notation used in the code
N_{cpg}	New	~	Added notation used in the code
P_n	P_n	~	Added tensile strength requirements for concrete
$P_{n,\,max}$	$P_{n,\,max}$	~	Added tensile strength requirements for concrete
P_{nt}	New	~	Added tensile strength requirements for concrete
$P_{nt,\,max}$	New	~	Added tensile strength requirements for concrete
s_i	s_i	~	Revised notation for clarity
S_n	S_n	~	Revised notation
T_{cr}	New	~	Added notation for clarity
T_{th}	New	~	Added notation for clarity
v_c	New	~	Added notation for clarity
v_s	New	~	Added notation for clarity
v_n	v_n	~	Revised notation for clarity
v_u	New	~	Added notation for clarity

Chapter 2 - NOTATION and TERMINOLOGY (Only the new or revised articles are shown)

318-14	318-11	Note	Description
v_{ug}	New	~	Added notation for clarity
V_{uh}	New	~	Added notation for clarity
w/cm	New	~	Added notation used in code
ε_{ty}	New	~	Added notation for clarity
γ_f	γ_f	~	Revised notation
γ_v	γ_v	~	Revised notation
ψ_c	New	~	Added notation for clarity
ψ_r	New	~	Added notation for clarity
ψ_t	ψ_t	~	Revised notation
σ	New	~	Revised detailing for special structural walls
2.3	**2.2**	**‡**	**Heading: Definitions**
2.3	A.1		
2.3	D.1		
Anchorage device	Anchorage device	~	Revised reinforcement definitions
Beam	New	~	New definition for word used in code
Bonded prestressed reinforcement	New	~	Revised reinforcement definitions
Bonded tendon	Bonded tendon	~	Revised reinforcement definitions
Column	Column	~	Revised definition for word used in code
Compliance requirements	New	~	Defined for new Ch. 26 concept
Compression-controlled section	Compression-controlled section	~	Revised definition for clarity
Deformed reinforcement	Deformed reinforcement	~	Revised reinforcement definitions
Design information	New	~	Defined for new Ch. 26 concept
Durability	New	~	Added definitions for words used in the code
Embedments	New	~	Added definitions for words used in the code
Finite element analysis	New	~	Added finite element analysis provisions
Headed deformed bars	Headed deformed bars	~	Revised reinforcement definitions
Headed shear stud reinforcement	Headed shear stud reinforcement	~	Revised reinforcement definitions
Hoop	Hoop	~	Regulate the use of headed bars in hoops
Inspection	New	~	Defined for new Ch. 26 concept
Inspection, continuous	New	~	Defined for new Ch. 26 concept

Chapter 2 - NOTATION and TERMINOLOGY (Only the new or revised articles are shown)

318-14	318-11	Note	Description
Inspection, periodic	New	~	Defined for new Ch. 26 concept
Integrity ties	New	~	Added definition for word used in the code
Intermediate moment frame	Intermediate moment frame	~	Revised definitions to identify members
Load path	New	~	Added definition for word used in the code
Moment frame	Moment frame	~	Revised definitions to identify members
Nonprestressed reinforcement	New	~	Revised reinforcement definitions
One-way construction	New	~	Added definition for word used in the code
Ordinary moment frame	Ordinary moment frame	~	Revised definitions to identify members
Pipe embedments	New	~	Added definition for word used in the code
Plain reinforcement	Plain reinforcement	~	Revised reinforcement definitions
Post-tensioning	Post-tensioning	~	Revised reinforcement definitions
Prestressed reinforcement	New	~	Revised reinforcement definitions
Prestressing reinforcement	Prestressing reinforcement	~	Revised reinforcement definitions
Pretensioning	Pretensioning	~	Revised reinforcement definitions
Reinforcement	Reinforcement	~	Revised reinforcement definitions
Special moment frame	Special moment frame	~	Revised definitions to identify members
Structural integrity	New	~	Added definitions for words used in the code
Structural system	New	~	Added definitions for words used in the code
Tendon	Tendon	~	Revised reinforcement definitions
Two-way construction	New	~	Added definitions for words used in the code
Unbonded tendon	Unbonded tendon	~	Revised reinforcement definitions
Water-cementitious materials ratio	New	~	Defined for new Ch. 26 concept
Welded wire reinforcement	Welded wire reinforcement	~	Revised reinforcement definitions
Welded bar mat	New	~	Revised reinforcement definitions

Chapter 3 - REFERENCED STANDARDS

318-14	318-11	Note	Description
3.1	---	‡	**Heading: Scope**
3.1.1	3.8.1		
	3.8.2		
	3.8.3		
	3.8.4		
	3.8.5		
	3.8.6		
	3.8.7		
	3.8.8		
	3.8.9		
	3.8.10		
3.2	---	‡	**Heading: Referenced Standards**
3.2.1	---	‡	**American Association of State Highway and Transportation Officials (AASHTO)**
3.2.1	3.8.5	~	Update references in AASHTO
3.2.2	---	‡	**Heading: American Concrete Institute (ACI)**
3.2.2	3.8.4		
	3.8.6		
	3.8.7		
	3.8.9		
	3.8.10		
	New	~	Remove statistical mix proporting and reference ACI 301
3.2.3	---	‡	**Heading: American Society of Civil Engineers (ASCE) / Structural Engineering Institute (SEI)**
3.2.3	3.8.3		
3.2.4	---	‡	**Heading: ASTM International**
3.2.4	3.8.1	~	Update and add ASTMs
3.2.5	---	‡	**Heading: American Welding Society (AWS)**
3.2.5	3.8.2		
	3.8.8		

Chapter 4 - STRUCTURAL SYSTEM REQUIREMENTS

318-14	318-11	Note	Description
4.1	**---**	**‡**	**Heading: Scope**
4.1.1	---	‡	Scope of chapter
4.2	**---**	**‡**	**Heading: Materials**
4.2.1	---	‡	Pointer to Ch. 19
4.2.2	---	‡	Pointer to Ch. 20
4.3	**---**	**‡**	**Heading: Design loads**
4.3.1	---	‡	Pointer to Ch. 5
4.4	**---**	**‡**	**Heading: Structural system and load paths**
4.4.1	---	‡	Scope of section
4.4.2	---	‡	Pointer to Ch. 7 - 18
4.4.3	---	‡	Pointer to 1.10.1
4.4.4	8.2.1		
	8.2.3		
	9.1.1		
4.4.5	8.2.4		
4.4.6	**---**	**‡**	**Heading: Seismic-force-resisting system**
4.4.6.1	1.1.9.1		
4.4.6.2	21.1.1.7		
4.4.6.3	1.1.9.2		
	21.1.1.7		
4.4.6.4	1.1.9.2		
4.4.6.5	21.1.2.2		
4.4.6.5.1	New	~	Clarify requirements for members not part of the SFRS
4.4.6.5.2	New	~	Clarify requirements for members not part of the SFRS
4.4.6.5.3	New	~	Clarify requirements for members not part of the SFRS
4.4.6.6	21.1.2.2		
4.4.7	**---**	**‡**	**Heading: Diaphragms**
4.4.7.1	New	~	General requirements for diaphragms
4.4.7.2	New	~	General requirements for diaphragms
4.4.7.3	New	~	General requirements for diaphragms
4.4.7.4	New	~	General requirements for diaphragms
4.4.7.5	New	~	General requirements for diaphragms
4.4.7.6	New	~	General requirements for diaphragms
4.5	**---**	**‡**	**Heading: Structural analysis**
4.5.1	10.2.1		
4.5.2	---	‡	Pointer to Ch. 6
4.6	**---**	**‡**	**Heading: Strength**
4.6.1	9.3.1		
4.6.2	9.1.1		
4.7	**---**	**‡**	**Heading: Serviceability**
4.7.1	9.1.2		
	18.10.2		
4.7.2	---	‡	Pointer to member chapters
4.8	**---**	**‡**	**Heading: Durability**

Chapter 4 - STRUCTURAL SYSTEM REQUIREMENTS

318-14	318-11	Note	Description
4.8.1	---	‡	Pointer to 19.3.2 and 26.4.2
4.8.2	---	‡	Pointer to 20.6
4.9	**---**	**‡**	**Heading: Sustainability**
4.9.1	New	~	General requirements for sustainability
4.9.2	New	~	General requirements for sustainability
4.10	**---**	**‡**	**Heading: Structural integrity**
4.10.1	**---**	**‡**	**Heading: General**
4.10.1.1	7.13.1		
4.10.2	**---**	**‡**	**Heading: Minimum requirements for structural integrity**
4.10.2.1	12.1.3		
4.11	**---**	**‡**	**Heading: Fire resistance**
4.11.1	---	‡	Pointer to the general building code
4.11.2	7.7.8		
4.12	**---**	**‡**	**Heading: Requirements for specific types of construction**
4.12.1	**---**	**‡**	**Heading: Precast concrete systems**
4.12.1.1	16.2.1		
	16.9.1		
	22.9.1		
4.12.1.2	16.2.3		
4.12.1.3	16.2.2		
4.12.1.4	16.3.2		
4.12.1.4(a)	16.3.2.1		
4.12.1.4(b)	16.3.2.2		
4.12.1.5	16.3.1		
4.12.2	**---**	**‡**	**Heading: Prestressed concrete systems**
4.12.2.1	18.2.2		
	18.10.1		
4.12.2.2	18.2.4		
4.12.2.3	18.2.3		
4.12.2.4	18.2.6		
4.12.2.5	18.22.1		
4.12.3	**---**	**‡**	**Heading: Composite concrete flexural members**
4.12.3.1	17.1.1		
4.12.3.2	17.2.2		
4.12.3.3	17.2.5		
4.12.3.4	17.2.6		
4.12.4	**---**	**‡**	**Heading: Composite steel and concrete construction**
4.12.4.1	10.13.1		
4.12.4.2	---	‡	Pointer to Ch. 10
4.12.5	**---**	**‡**	**Heading: Structural plain concrete systems**
4.12.5.1	---	‡	Pointer to Ch. 14
4.13	**---**	**‡**	**Heading: Quality assurance, construction, and inspection**
4.13.1	---	‡	Pointer to Ch. 26
4.13.2	---	‡	Pointer to Ch. 26

Chapter 4 - STRUCTURAL SYSTEM REQUIREMENTS

318-14	318-11	Note	Description
4.14	**---**	**‡**	**Heading: Strength evaluation of existing structures**
4.14.1	---	‡	Pointer to Ch. 27

Chapter 5 - LOADS

318-14	318-11	Note	Description
5.1	**---**	**‡**	**Heading: Scope**
5.1.1	---	‡	Scope
5.2	**---**	**‡**	**Heading: General**
5.2.1	New	~	Description of type of loads
5.2.2	1.1.9.1		
	8.2.2		
5.2.3	8.2.2	~	Add reference to ASCE 7 for live load reduction
5.3	**---**	**‡**	**Heading: Load factors and combinations**
5.3.1	9.2.1		
	22.4.1		
5.3.2	9.2.1		
5.3.3	9.2.1(a)		
5.3.4	8.2.4		
	9.2.2		
5.3.5	9.2.1(b)		
5.3.6	9.2.3		
5.3.7	9.2.4		
5.3.8	9.2.5		
5.3.9	9.2.6		
5.3.10	9.2.6		
5.3.11	18.10.3		
5.3.12	9.2.7		

Chapter 6 - STRUCTURAL ANALYSIS

318-14	318-11	Note	Description
6.1	**---**	**‡**	**Heading: Scope**
6.1.1	---	‡	Scope of chapter
6.2	**---**	**‡**	**Heading: General**
6.2.1	---	‡	Pointer to 6.3
6.2.2	8.3.1		
6.2.3	---	‡	Pointer to 6.5 through 6.9
6.2.4	---	‡	Introduction to list of requirements
6.2.4.1	---	‡	Pointer to 8.10 and 8.11
6.2.4.2	---	‡	Pointer to 11.8
6.2.4.3	---	‡	Pointer to Ch. 23
6.2.5	10.10.1	~	Change the sign convention for consistency
6.2.5.1	10.10.1.2		
6.2.5.2	10.13.5		
	10.13.6.2		
	10.13.7.4		
	10.13.8.7		
6.2.6	10.3.7		
	10.10.2		
	10.10.2.1		
6.3	**---**	**‡**	**Heading: Modeling assumptions**
6.3.1	**---**	**‡**	**Heading: General**
6.3.1.1	8.7.1		
	13.5.1.2		
6.3.1.2	8.10.3		
	8.11.1		
6.3.1.3	8.7.2		
6.3.2	**---**	**‡**	**Heading: T-beam geometry**
6.3.2.1	8.12.1		
	8.12.2		
	8.12.3		
6.3.2.2	8.12.4		
6.3.2.3	---	‡	Pointer to 6.3.2.1 and 6.3.2.2
6.4	**---**	**‡**	**Heading: Arrangement of live load**
6.4.1	8.11.1		
6.4.2	8.11.2		
6.4.3	13.7.6.4		
6.4.3.1	13.7.6.1		
6.4.3.2	13.7.6.2		
6.4.3.3	13.7.6.3		
6.5	**---**	**‡**	**Heading: Simplified method of analysis for continuous beams and one-way slabs**
6.5	8.3.2		
6.5.1	8.3.3		
6.5.2	8.3.3		

Chapter 6 - STRUCTURAL ANALYSIS

318-14	318-11	Note	Description
6.5.3	8.4.1		
6.5.4	8.3.3		
6.5.5	8.10.4		
6.6	**---**	**‡**	**Heading: First-order analysis**
6.6.1	**---**	**‡**	**General**
6.6.1.1	10.10.2.2		
6.6.1.2	8.4.1		
6.6.2	**---**	**‡**	**Heading: Modeling of members and structural systems**
6.6.2.1	8.10.4		
6.6.2.2	8.10.2		
6.6.2.3	---	‡	Introduction
6.6.2.3(a)	8.9.4		
6.6.2.3(b)	New	~	Modeling assumption of joints
6.6.3	**---**	**‡**	**Heading: Section properties**
6.6.3.1	**---**	**‡**	**Heading: Factored load analysis**
6.6.3.1.1	8.8.2		
	10.10.4.1		
	10.10.4.2		
6.6.3.1.2	8.8.2		
6.6.3.1.3	8.8.3		
6.6.3.2	**---**	**‡**	**Heading: Service load analysis**
6.6.3.2.1	---	‡	Pointer to 24.2
6.6.3.2.2	8.8.1		
6.6.4	**---**	**‡**	**Heading: Slenderness effects – Moment magnification method**
6.6.4.1	10.10.5		
6.6.4.2	10.10.2		
	10.10.4.1		
6.6.4.3	---	‡	Introduction
6.6.4.3(a)	10.10.5.1		
6.6.4.3(b)	10.10.5.2		
6.6.4.4	**---**	**‡**	**Heading: Stability properties**
6.6.4.4.1	10.10.5.2		
6.6.4.4.2	10.10.6		
6.6.4.4.3	10.10.6.3		
	10.10.7.2		
6.6.4.4.4	10.10.6.1		
	10.10.6.2		
6.6.4.4.5	10.13.5		
6.6.4.5	**---**	**‡**	**Heading: Moment magnification method – Nonsway frames**
6.6.4.5.1	10.10.6		
6.6.4.5.2	10.10.6		
6.6.4.5.3	10.10.6.4	~	Change the sign convention for consistency
6.6.4.5.4	10.10.6.5		

Chapter 6 - STRUCTURAL ANALYSIS

318-14	318-11	Note	Description
6.6.4.6	---	‡	**Heading: Moment magnification method – Sway frames**
6.6.4.6.1	10.10.7		
6.6.4.6.2	10.10.7.3		
	10.10.7.4		
6.6.4.6.3	10.10.7.1		
6.6.4.6.4	10.10.2.2		
6.6.5	---	‡	**Heading: Redistribution of moments in continous flexural members**
6.6.5.1	8.4.1		
	8.4.2		
	18.10.4.1		
6.6.5.2	18.10.3		
6.6.5.3	8.4.1		
6.6.5.4	8.4.3		
	18.10.3		
	18.10.4.2		
6.6.5.5	8.4.3		
6.7	---	‡	**Heading: Elastic second-order analysis**
6.7.1	---	‡	**Heading: General**
6.7.1.1	10.10.4		
6.7.1.2	10.10.2.2		
6.7.1.3	10.10.2		
	10.10.4.1		
6.7.1.4	8.4.1		
6.7.2	---	‡	**Heading: Section properties**
6.7.2.1	---	‡	**Heading: Factored load analysis**
6.7.2.1.1	---	‡	Pointer to 6.6.3.1
6.7.2.2	---	‡	**Heading: Service load analysis**
6.7.2.2.1	---	‡	Pointer to 24.2
6.7.2.2.2	8.8.1		
6.8	---	‡	**Heading: Inelastic second-order analysis**
6.8.1	---	‡	**Heading: General**
6.8.1.1	10.10.3		
6.8.1.2	10.10.3		
6.8.1.3	10.10.2.2		
6.8.1.4	10.10.2		
	10.10.4.1		
6.8.1.5	8.4.1		
6.9	---	‡	
6.9.1	New	~	Added finite element analysis provisions
6.9.2	New	~	Added finite element analysis provisions
6.9.3	New	~	Added finite element analysis provisions
6.9.4	New	~	Added finite element analysis provisions
6.9.5	New	~	Added finite element analysis provisions

Chapter 6 - STRUCTURAL ANALYSIS

318-14	318-11	Note	Description
6.9.6	New	~	Added finite element analysis provisions

Chapter 7 - ONE-WAY SLABS

318-14	318-11	Note	Description
7.1	**---**	**‡**	**Heading: Scope**
7.1.1	---	‡	Scope of chapter
7.2	**---**	**‡**	**Heading: General**
7.2.1	11.1.1.1		
	18.12.4		
7.2.2	**---**	**‡**	**Heading: Materials**
7.2.2.1	---	‡	Pointer to Ch. 19
7.2.2.2	---	‡	Pointer to Ch. 20
7.2.2.3	---	‡	Pointer to 20.7
7.2.3	**---**	**‡**	**Heading: Connection to other members**
7.2.3.1	---	‡	Pointer to 15
7.2.3.2	---	‡	Pointer to 16.2
7.3	**---**	**‡**	**Heading: Design limits**
7.3.1	**---**	**‡**	**Heading: Minimum slab thickness**
7.3.1.1	9.5.2.1		
7.3.1.1.1	9.5.2.1		
7.3.1.1.2	9.5.2.1		
7.3.1.1.3	9.5.5.1		
7.3.1.2	8.14.1		
7.3.2	**---**	**‡**	**Heading: Calculated deflection limits**
7.3.2.1	---	‡	Pointer to 24.2
7.3.2.2	9.5.5.2		
7.3.3	**---**	**‡**	**Heading: Reinforcement strain limit in nonprestressed slabs**
7.3.3.1	10.3.5		
7.3.4	**---**	**‡**	**Heading: Reinforcement strain limit in nonprestressed slabs**
7.3.4.1	---	‡	Pointer to 24.5.2
7.3.4.2	---	‡	Pointer to 24.5.3 and 24.5.4
7.4	**---**	**‡**	**Heading: Required strength**
7.4.1	**---**	**‡**	**Heading: General**
7.4.1.1	---	‡	Pointer to Ch. 5
7.4.1.2	---	‡	Pointer to Ch. 6
7.4.1.3	---	‡	Pointer to 5.3.11
7.4.2	**---**	**‡**	**Heading: Factored moment**
7.4.2.1	8.9.3		
7.4.3	**---**	**‡**	**Heading: Factored shear**
7.4.3.1	11.1.3.1		Editorial, from commentary
7.4.3.2	11.1.3		
	11.1.3.1		
	11.1.3.2		
7.5	**---**	**‡**	**Heading: Design strength**
7.5.1	**---**	**‡**	**Heading: General**
7.5.1.1	9.1.1		
	11.1.1		
	18.12.2		

Chapter 7 - ONE-WAY SLABS

318-14	318-11	Note	Description
7.5.1.2	---	‡	Pointer to 21.2
7.5.2	**---**	**‡**	**Heading: Moment**
7.5.2.1	---	‡	Pointer to 22.3
7.5.2.2	18.22.2		
7.5.2.3	8.12.5		
	8.12.5.1		
7.5.3	**---**	**‡**	**Heading: Shear**
7.5.3.1	---	‡	Pointer to 22.5
7.5.3.2	---	‡	Pointer to 16.4
7.6	**---**	**‡**	**Heading: Reinforcement limits**
7.6.1	**---**	**‡**	**Heading: Minimum flexural reinforcement in nonprestressed slabs**
7.6.1.1	7.12.2.1		
	10.5.4		
7.6.2	**---**	**‡**	**Heading: Minimum flexural reinforcement in prestressed slabs**
7.6.2.1	18.8.2		
7.6.2.2	18.8.2		
7.6.2.3	18.9.1		
	18.9.2		
	18.9.2.2		
7.6.3	**---**	**‡**	**Heading: Minimum shear reinforcement**
7.6.3.1	11.4.6.1		
7.6.3.2	11.4.6.2		
7.6.3.3	---	‡	Pointer to 9.6.3.3
7.6.4	**---**	**‡**	**Heading: Minimum shrinkage and temperature reinforcement**
7.6.4.1	---	‡	Pointer to 24.4
7.6.4.2	7.12.3		
7.6.4.2.1	7.12.3.2		
7.6.4.2.2	7.12.3.3		
7.6.4.2.3	7.12.3.4		
7.7	**---**	**‡**	**Heading: Reinforcement detailing**
7.7.1	**---**	**‡**	**Heading: General**
7.7.1.1	---	‡	Pointer to 20.6.1
7.7.1.2	---	‡	Pointer to 25.4
7.7.1.3	---	‡	Pointer to 25.5
7.7.1.4	---	‡	Pointer to 25.6
7.7.2	**---**	**‡**	**Heading: Reinforcement spacing**
7.7.2.1	---	‡	Pointer to 25.2
7.7.2.2	---	‡	Pointer to 24.3
	18.8.3		
7.7.2.3	7.6.5		
	10.5.4		

Chapter 7 - ONE-WAY SLABS

318-14	318-11	Note	Description
7.7.2.4	8.12.5.2		
7.7.3	**---**	**‡**	**Heading: Flexural reinforcement in nonprestressed slabs**
7.7.3.1	12.1.1		
	12.12.1		
7.7.3.2	12.10.2		
7.7.3.3	12.10.3		
7.7.3.4	12.10.4		
7.7.3.5	12.10.5		
7.7.3.5(a)	12.10.5.1		
7.7.3.5(b)	12.10.5.3		
7.7.3.5(c)	12.10.5.2		
7.7.3.6	12.10.6		
7.7.3.7	7.5.3		
7.7.3.8	**---**	**‡**	**Heading: Termination of reinforcement**
7.7.3.8.1	12.11.1		
	16.6.2.3		
7.7.3.8.2	12.11.1		
7.7.3.8.3	12.11.3		
7.7.3.8.4	12.12.3		
7.7.4	**---**	**‡**	**Heading: Flexural reinforcement in prestressed slabs**
7.7.4.1	18.22.3		
7.7.4.2	18.9.4.3		
7.7.4.3	**---**	**‡**	**Heading: Termination of prestressed reinforcement**
7.7.4.3.1	---	‡	Pointer to 25.8
7.7.4.3.2	---	‡	Pointer to 25.9
7.7.4.4	**---**	**‡**	**Heading: Termination of deformed reinforcement in slabs with unbonded tendons**
7.7.4.4.1	18.9.4		
7.7.4.4.1(a)	18.9.4.1		
7.7.4.4.1(b)	18.9.4.2		
7.7.5	**---**	**‡**	**Heading: Shear reinforcement**
7.7.5.1	---	‡	Pointer to 9.7.6.2
7.7.6	**---**	**‡**	**Heading: Shrinkage and temperature reinforcement**
7.7.6.1	---	‡	Pointer to 7.6.4
7.7.6.2	**---**	**‡**	**Heading: Nonprestressed reinforcement**
7.7.6.2.1	7.12.2.2		
7.7.6.3	**---**	**‡**	**Heading: Prestressed reinforcement**
7.7.6.3.1	7.12.3.4		
7.7.6.3.2	7.12.3.5	~	Concrete area for S&T in prestressed

Chapter 8 - TWO-WAY SLABS

318-14	318-11	Note	Description
8.1	**---**	**‡**	**Heading: Scope**
8.1.1	13.1.1		
	13.1.3		
8.2	**---**	**‡**	**Heading: General**
8.2.1	13.5.1		
	13.5.1.1		
8.2.2	11.1.1.1		
	18.12.4		
8.2.3	18.12.4		
8.2.4	13.2.5		
8.2.5	13.2.6		
8.2.6	**---**	**‡**	**Heading: Materials**
8.2.6.1	---	‡	Pointer to Ch. 19
8.2.6.2	---	‡	Pointer to Ch. 20
8.2.6.3	---	‡	Pointer to 20.6
8.2.7	**---**	**‡**	**Heading: Connection to other members**
8.2.7.1	---	‡	Pointer to Ch. 15
8.3	**---**	**‡**	**Heading: Design limits**
8.3.1	**---**	**‡**	**Heading: Minimum slab thickness**
8.3.1.1	9.5.3.1		
	9.5.3.2		
	13.1.4		
8.3.1.2	9.5.3.1		
	9.5.3.3		
8.3.1.2.1	9.5.3.3		
8.3.1.3	8.14.1		
8.3.1.4	---	‡	Pointer to 22.6.7.1
8.3.2	**---**	**‡**	**Heading: Calculated deflection limits**
8.3.2.1	9.5.3.4		
	18.12.3		
8.3.2.2	9.5.5.2		
8.3.3	**---**	**‡**	**Heading: Reinforcement strain limit in nonprestressed slabs**
8.3.3.1	10.3.5		
8.3.4	**---**	**‡**	**Heading: Stress limits in prestressed slabs**
8.3.4.1	---	‡	Pointer to 24.5.3 and 24.5.4
	18.3.3		
8.4	**---**	**‡**	**Heading: Required strength**
8.4.1	**---**	**‡**	**Heading: General**
8.4.1.1	---	‡	Pointer to Ch. 5
8.4.1.2	13.5.1.1		
	18.12.1		
8.4.1.3	18.10.3		
8.4.1.4	13.1.2		
8.4.1.5	13.2.1		

Chapter 8 - TWO-WAY SLABS

318-14	318-11	Note	Description
8.4.1.6	13.2.2		
8.4.1.7	13.2.3		
8.4.1.8	13.2.4		
8.4.1.9	13.5.1.3		
8.4.2	---	‡	**Heading: Factored moment**
8.4.2.1	8.9.3		
8.4.2.2	---	‡	Pointer to 8.10 and 8.11
8.4.2.3	---	‡	**Heading: Factored slab moment resisted by column**
8.4.2.3.1	13.5.3		
8.4.2.3.2	13.5.3.2		
8.4.2.3.3	13.5.3.2		
8.4.2.3.4	13.5.3.3		
8.4.2.3.5	13.5.3.4		
8.4.2.3.6	13.5.3.1		
8.4.3	---	‡	**Heading: Factored one-way shear**
8.4.3.1	R11.1.3.1		Editorial, from commentary
8.4.3.2	11.1.3		
	11.1.3.1		
	11.1.3.2		
8.4.4	---	‡	**Heading: Factored two-way shear**
8.4.4.1	---	‡	**Heading: Critical section**
8.4.4.1.1	---	‡	Pointer to 22.6.4
8.4.4.1.2	---	‡	Pointer to 22.6.4.2
8.4.4.1.3	---	‡	Pointer to 22.6.9.8
8.4.4.2	---	‡	**Heading: Factored two-way shear stress due to shear and factored slab moment resisted by the column**
8.4.4.2.1	11.11.7.1		Clarification
8.4.4.2.2	11.11.7.1		
8.4.4.2.3	11.11.7.2		
8.5	---	‡	**Heading: Design strength**
8.5.1	---	‡	**Heading: General**
8.5.1.1	9.1.1		
	11.1.1		
	11.11.7.2		
	13.5.2		
	18.12.2		
8.5.1.2	---	‡	Pointer to 21.2
8.5.1.3	---	‡	Pointer to 8.5.1.1(a) through)d) and 22.6.9

Chapter 8 - TWO-WAY SLABS

318-14	318-11	Note	Description
8.5.2	---	‡	**Heading: Flexure**
8.5.2.1	---	‡	Pointer to 22.3
8.5.2.2	13.3.7		
8.5.2.3	18.22.2		
8.5.3	---	‡	**Heading: Shear**
8.5.3.1	11.11.1		
	13.6.8.5		
8.5.3.1.1	11.11.1.1		
8.5.3.1.2	---	‡	Pointer to 22.6
8.5.3.2	---	‡	Pointer to 16.4
8.5.4	---	‡	**Heading: Openings in slab systems**
8.5.4.1	13.4.1		
8.5.4.2	13.4.2		
8.5.4.2(a)	13.4.2.1		
8.5.4.2(b)	13.4.2.2		
8.5.4.2(c)	13.4.2.3		
8.5.4.2(d)	13.4.2.4		
8.6	---	‡	**Heading: Reinforcement limits**
8.6.1	---	‡	**Heading: Minimum flexural reinforcement in nonprestressed slabs**
8.6.1.1	7.12.2.1		
	13.3.1		
8.6.2	---	‡	**Heading: Minimum flexural reinforcement in prestressed slabs**
8.6.2.1	18.12.4		
8.6.2.2	18.8.2		
8.6.2.2.1	18.8.2		
8.6.2.3	18.9.1	~	Require the same amount of unbonded reinforcement for bonded and unbonded prestressed two-way slabs
	18.9.3	~	Require the same amount of unbonded reinforcement for bonded and unbonded prestressed two-way slabs
	18.9.3.1	~	Require the same amount of unbonded reinforcement for bonded and unbonded prestressed two-way slabs
	18.9.3.2	~	Require the same amount of unbonded reinforcement for bonded and unbonded prestressed two-way slabs
	18.9.3.3	~	Require the same amount of unbonded reinforcement for bonded and unbonded prestressed two-way slabs
8.7	---	‡	**Heading: Reinforcement detailing**
8.7.1	---	‡	**Heading: General**
8.7.1.1	---	‡	Pointer to 20.6.1
8.7.1.2	---	‡	Pointer to 24.4
8.7.1.3	---	‡	Pointer to 25.5
8.7.1.4	---	‡	Pointer to 25.6
8.7.2	---	‡	**Heading: Flexural reinforcement spacing**

Chapter 8 - TWO-WAY SLABS

318-14	318-11	Note	Description
8.7.2.1	---	‡	Pointer to 25.2
8.7.2.2	7.6.5		
	7.12.2.2		
	10.6.2		
	13.3.2		
8.7.2.3	18.12.4		
8.7.2.4	18.12.4		
8.7.3	**---**	**‡**	**Heading: Corner restraint in slabs**
8.7.3.1	13.3.6		
	13.3.6.1		
8.7.3.1.1	13.3.6.2		
8.7.3.1.2	13.3.6.3		
8.7.3.1.3	13.3.6.4		
8.7.4	**---**	**‡**	**Heading: Flexural reinforcement in nonprestressed slabs**
8.7.4.1	**---**	**‡**	**Heading: Termination of reinforcement**
8.7.4.1.1	---	‡	Introduction
8.7.4.1.1(a)	13.3.3		
8.7.4.1.1(b)	13.3.4		
8.7.4.1.2	13.3.5		
8.7.4.1.3	---	‡	Introduction
8.7.4.1.3(a)	13.3.8.1		
	13.3.8.4		
8.7.4.1.3(b)	13.3.8.2		
8.7.4.1.3(c)	13.3.8.3		
8.7.4.2	**---**	**‡**	**Heading: Structural integrity**
8.7.4.2.1	13.3.8.5		
8.7.4.2.2	13.3.8.5		
8.7.4.2.3	13.3.8.6		
8.7.5	**---**	**‡**	**Heading: Flexural reinforcement in prestressed slabs**
8.7.5.1	18.22.3		
8.7.5.2	18.9.4.3		
8.7.5.3	18.9.3.3	~	Require the same amount of unbonded reinforcement for bonded and unbonded prestressed two-way slabs
8.7.5.4	**---**	**‡**	**Heading: Termination of prestressed reinforcement**
8.7.5.4.1	---	‡	Pointer to 25.9
8.7.5.4.2	---	‡	Pointer to 25.7
8.7.5.5	**---**	**‡**	**Heading: Termination of deformed reinforcement in slabs with unbonded tendons**
8.7.5.5.1	18.9.4		
8.7.5.5.1(a)	18.9.4.1		
8.7.5.5.1(b)	18.9.4.2		
8.7.5.6	**---**	**‡**	**Heading: Structural integrity**
8.7.5.6.1	18.12.6	~	Require the same structural integrity requirements for bonded and unbonded prestressed two-way slabs

Chapter 8 - TWO-WAY SLABS

318-14	318-11	Note	Description
8.7.5.6.2	18.12.6		
8.7.5.6.3	18.12.7	~	Require the same structural integrity requirements for bonded and unbonded prestressed two-way slabs
8.7.5.6.3.1	18.12.7		
8.7.5.6.3.2	18.12.7		
8.7.5.6.3.3	18.12.7		
8.7.6	---	‡	**Heading: Stirrups**
8.7.6.1	11.11.3		
8.7.6.2	11.11.3.4		
8.7.6.3	11.11.3.3		
8.7.7	---	‡	**Heading: Headed shear stud reinforcement**
8.7.7.1	11.11.5		
8.7.7.1.1	11.11.5		
8.7.7.1.2	11.11.5.2		
	11.11.5.3		
8.8	---	‡	**Heading: Two-way joist systems**
8.8.1	---	‡	**Heading: General**
8.8.1.1	8.13.1		
8.8.1.2	8.13.2		
8.8.1.3	8.13.2		
8.8.1.4	8.13.3		
8.8.1.5	8.13.8		
8.8.1.6	7.13.2.1		
8.8.1.7	8.13.6.2		
8.8.1.8	8.13.4		
8.8.2	---	‡	**Heading: Joists with structural fillers**
8.8.2.1	8.13.5		
8.8.2.1.1	8.13.5.2		
8.8.2.1.2	8.13.5.1		
8.8.3	---	‡	**Heading: Joists with other fillers**
8.8.3.1	8.13.6		
	8.13.6.1		
8.9	---	‡	**Heading: Lift-slab construction**
8.9.1	13.3.8.6		
	18.12.8		
8.10	---	‡	**Heading: Direct design method**
8.10.1	---	‡	**Heading: General**
8.10.1.1	13.6.1		
8.10.1.2	13.5.1		
	13.6.1.8		
8.10.1.3	13.6.2.5		
	13.6.3.1		
8.10.2	---	‡	**Heading: Limitations for use of direct design method**

Chapter 8 - TWO-WAY SLABS

318-14	318-11	Note	Description
8.10.2.1	13.6.1.1		
8.10.2.2	13.6.1.3		
8.10.2.3	13.6.1.2		
8.10.2.4	13.6.1.4		
8.10.2.5	13.6.1.5		
8.10.2.6	13.6.1.5		
8.10.2.7	13.6.1.6		
8.10.3	---	‡	**Heading: Total factored static moment for a span**
8.10.3.1	13.6.2.1		
8.10.3.2	13.6.2.2		
8.10.3.2.1	13.6.2.2		
	13.6.2.5		
8.10.3.2.2	13.6.2.3		
8.10.3.2.3	13.6.2.4		
8.10.4	---	‡	**Heading: Distribution of total factored static moment**
8.10.4.1	13.6.3.2		
8.10.4.2	13.6.3.3		
8.10.4.3	13.6.1.7		
	13.6.7		
8.10.4.4	13.6.3.1		
8.10.4.5	13.6.3.4		
8.10.4.6	13.6.3.5		
8.10.5	---	‡	**Heading: Factored moments in column strips**
8.10.5.1	13.6.4.1		
8.10.5.2	13.6.4.2		
8.10.5.3	13.6.4.2		
8.10.5.4	13.6.4.3		
8.10.5.5	13.6.4.4		
8.10.5.6	13.6.4.5		
8.10.5.7	---	‡	**Heading: Factored moments in beams**
8.10.5.7.1	13.6.5.1		
	13.6.5.2		
8.10.5.7.2	13.6.5.3		
8.10.6	---	‡	**Heading: Factored moments in middle strips**
8.10.6.1	13.6.6.1		
8.10.6.2	13.6.6.2		
8.10.6.3	13.6.6.3		
8.10.7	---	‡	**Heading: Factored moments in columns and walls**
8.10.7.1	13.6.9.1		
8.10.7.2	13.6.9.2		
8.10.7.3	13.6.3.6		
8.10.8	---	‡	**Heading: Factored shear in slab systems with beams**
8.10.8.1	13.6.8.1		
	13.6.8.2		

Chapter 8 - TWO-WAY SLABS

318-14	318-11	Note	Description
8.10.8.2	13.6.8.3		
8.10.8.3	13.6.8.4		
8.11	**---**	**‡**	**Heading: Equivalent frame method**
8.11.1	**---**	**‡**	**Heading: General**
8.11.1.1	13.7.1		
8.11.1.2	---	‡	Pointer to 6.4.3
8.11.1.3	13.7.1.1		
8.11.1.4	13.7.1.2		
8.11.1.5	---	‡	Pointer to 13.3.5
8.11.2	**---**	**‡**	**Heading: Equivalent frames**
8.11.2.1	13.7.2.1		
8.11.2.2	13.7.2.2		
8.11.2.3	13.7.2.4		
8.11.2.4	13.7.2.3		
8.11.2.5	13.7.2.5		
8.11.2.6	13.7.2.6		
8.11.3	**---**	**‡**	**Heading: Slab-beams**
8.11.3.1	13.7.3.3		
8.11.3.2	13.7.3.2		
8.11.3.3	13.7.3.1		
8.11.4	**---**	**‡**	**Heading: Columns**
8.11.4.1	13.7.4.3		
8.11.4.2	13.7.4.2		
8.11.4.3	13.7.4.1		
8.11.5	**---**	**‡**	**Heading: Torsional members**
8.11.5.1	13.7.5.1		
8.11.5.2	13.7.5.2		
8.11.6	**---**	**‡**	**Heading: Factored moments**
8.11.6.1	13.7.7.1		
8.11.6.2	13.7.7.2		
8.11.6.3	13.7.7.2		
8.11.6.4	13.7.7.3		
8.11.6.5	13.7.7.4		
8.11.6.6	13.7.7.5		

Chapter 9 - BEAMS

318-14	318-11	Note	Description
9.1	**---**	**‡**	**Heading: Scope**
9.1.1	---	‡	Scope
9.2	**---**	**‡**	**Heading: General**
9.2.1	**---**	**‡**	**Heading: Materials**
9.2.1.1	---	‡	Pointer to Ch. 19
9.2.1.2	---	‡	Pointer to Ch. 20
9.2.1.3	---	‡	Pointer to 20.7
9.2.2	**---**	**‡**	**Heading: Connection to other members**
9.2.2.1	---	‡	Pointer to Ch. 15
9.2.2.2	---	‡	Pointer to 16.2
9.2.3	**---**	**‡**	**Heading: Stability**
9.2.3.1	---	‡	Introduction
9.2.3.1(a)	10.4.1		
9.2.3.1(b)	10.4.2		
9.2.3.2	18.2.5		
9.2.4	**---**	**‡**	**Heading: T-beam construction**
9.2.4.1	---	‡	Pointer to 16.4
9.2.4.2	---	‡	Pointer to 6.3.2
9.2.4.3	8.12.5		
9.2.4.4	11.5.1.1		
9.2.4.4(a)	13.2.4		
9.2.4.4(b)	11.5.1.1		
9.3	**---**	**‡**	**Heading: Design limits**
9.3.1	**---**	**‡**	**Heading: Minimum beam depth**
9.3.1.1	9.5.2.1		
9.3.1.1.1	9.5.2.1		
9.3.1.1.2	9.5.2.1		
9.3.1.1.3	9.5.5.1		
9.3.1.2	8.14.1		
9.3.2	**---**	**‡**	**Heading: Calculated deflection limits**
9.3.2.1	---	‡	Pointer to 24.2
9.3.2.2	9.5.5.2		
9.3.3	**---**	**‡**	**Heading: Reinforcement strain limit in nonprestressed slabs**
9.3.3.1	10.3.5		
9.3.4	**---**	**‡**	**Heading: Reinforcement strain limit in nonprestressed slabs**
9.3.4.1	---	‡	Pointer to 24.5.2
9.3.4.2	---	‡	Pointer to 24.5.3 and 24.5.4
9.4	**---**	**‡**	**Heading: Required strength**
9.4.1	**---**	**‡**	**Heading: General**
9.4.1.1	---	‡	Pointer to Ch. 5
9.4.1.2	---	‡	Pointer to Ch. 6
9.4.1.3	---	‡	Pointer to 5.3.12
9.4.2	**---**	**‡**	**Heading: Factored moment**
9.4.2.1	8.9.3		

Chapter 9 - BEAMS

318-14	318-11	Note	Description
9.4.3	**---**	**‡**	**Heading: Factored shear**
9.4.3.1	R11.1.3.1		
9.4.3.2	11.1.3		
	11.1.3.1		
	11.1.3.2		
9.4.4	**---**	**‡**	**Heading: Factored torsion**
9.4.4.1	11.5.2.3		
9.4.4.2	11.5.2.4		
	11.5.2.5		
9.4.4.3	11.5.2.4		
	11.5.2.5		
9.4.4.4	---	‡	Pointer to 22.7.3
9.5	**---**	**‡**	**Heading: Design strength**
9.5.1	**---**	**‡**	**Heading: General**
9.5.1.1	9.1.1		
	11.1.1		
9.5.1.2	---	‡	Pointer 21.2
9.5.2	**---**	**‡**	**Heading: Moment**
9.5.2.1	---	‡	Pointer to 22.3
9.5.2.2	---	‡	Pointer to 22.4
9.5.2.3	18.22.2		
9.5.3	**---**	**‡**	**Heading: Shear**
9.5.3.1	---	‡	Pointer to 22.5
9.5.3.2	---	‡	Pointer to 16.4
9.5.4	**---**	**‡**	**Heading: Torsion**
9.5.4.1	11.5.1		
9.5.4.2	---	‡	Pointer to 22.7
9.5.4.3	11.5.3.8		
9.5.4.4	11.5.3.10		
9.5.4.5	11.5.3.9		
	11.5.3.11		
9.5.4.6	11.5.7		
9.5.4.7	New	~	Allow open webs for deep precast spandrel beams in torsion
9.6	**---**	**‡**	**Heading: Reinforcement limits**
9.6.1	**---**	**‡**	**Heading: Minimum flexural reinforcement in nonprestressed slabs**
9.6.1.1	10.5.1		
9.6.1.2	10.5.1		
	10.5.2		
9.6.1.3	10.5.3		
9.6.2	**---**	**‡**	**Heading: Minimum flexural reinforcement in prestressed slabs**
9.6.2.1	18.8.2		
9.6.2.2	18.8.2		

Chapter 9 - BEAMS

318-14	318-11	Note	Description
	18.9.1		
9.6.2.3	18.9.2		
	18.9.2.2		
9.6.3	**---**	**‡**	**Heading: Minimum shear reinforcement**
9.6.3.1	11.4.6.1		
9.6.3.2	11.4.6.2		
9.6.3.3	11.4.6.3		
	11.4.6.4		
9.6.4	**---**	**‡**	**Heading: Minimum torsional reinforcement**
9.6.4.1	11.5.5.1		
9.6.4.2	11.5.5.2		
9.6.4.3	11.5.5.3		
9.7	**---**	**‡**	**Heading: Reinforcement detailing**
9.7.1	**---**	**‡**	**Heading: General**
9.7.1.1	---	‡	Pointer to 20.6.1
9.7.1.2	---	‡	Pointer to 25.4
9.7.1.3	---	‡	Pointer to 25.5
9.7.1.4	---	‡	Pointer to 25.6
9.7.2	**---**	**‡**	**Heading: Reinforcement spacing**
9.7.2.1	---	‡	Pointer to 25.2
9.7.2.2	---	‡	Pointer to 24.3
9.7.2.3	10.6.7		
	18.4.4.4		
9.7.3	**---**	**‡**	**Heading: Flexural reinforcement in nonprestressed beams**
9.7.3.1	12.1.1		
	12.12.1		
9.7.3.2	12.10.2		
9.7.3.3	12.10.3		
9.7.3.4	12.10.4		
9.7.3.5	12.10.5		
9.7.3.5(a)	12.10.5.1		
9.7.3.5(b)	12.10.5.3		
9.7.3.5(c)	12.10.5.2		
9.7.3.6	12.10.6		
9.7.3.7	12.10.1		
9.7.3.8	**---**	**‡**	**Heading: Termination of reinforcement**
9.7.3.8.1	12.11.1		
	16.6.2.3		
9.7.3.8.2	12.11.1		
9.7.3.8.3	12.11.3		
9.7.3.8.4	12.12.3		
9.7.4	**---**	**‡**	**Heading: Flexural reinforcement in prestressed beams**
9.7.4.1	18.22.3		
9.7.4.2	18.9.4.3		

Chapter 9 - BEAMS

318-14	318-11	Note	Description
9.7.4.3	**---**	**‡**	**Heading: Termination of prestressed reinforcement**
9.7.4.3.1	---	‡	Pointer to 25.9
9.7.4.3.2	---	‡	Pointer to 25.7
9.7.4.4	**---**	**‡**	**Heading: Termination of deformed reinforcement in beams with unbonded tendons**
9.7.4.4.1	18.9.4		
9.7.4.4.1(a)	18.9.4.1		
9.7.4.4.1(b)	18.9.4.2		
9.7.5	**---**	**‡**	**Heading: Longitudinal torsional reinforcement**
9.7.5.1	11.5.6.2		
9.7.5.2	11.5.6.2		
9.7.5.3	11.5.6.3		
9.7.5.4	11.5.4.3		
9.7.6	**---**	**‡**	**Heading: Transverse reinforcement**
9.7.6.1	**---**	**‡**	**Heading: General**
9.7.6.1.1	---	‡	Scope of section
9.7.6.1.2	---	‡	Pointer to 25.8
9.7.6.2	**---**	**‡**	**Heading: Shear**
9.7.6.2.1	---	‡	Scope of section
9.7.6.2.2	11.4.5.1		
	11.4.5.3		
9.7.6.2.3	11.4.5.2		
9.7.6.2.4	12.13.4		
9.7.6.3	**---**	**‡**	**Heading: Torsion**
9.7.6.3.1	7.11.2		
	11.5.4.1		
9.7.6.3.2	11.5.6.3		
9.7.6.3.3	11.5.6.1		
9.7.6.3.4	11.5.4.4		
9.7.6.4	**---**	**‡**	**Heading: Lateral support of compression reinforcement**
9.7.6.4.1	7.11.1		
	7.11.2		
9.7.6.4.2	7.10.5.1		
	7.11.1		
9.7.6.4.3	7.10.5.2		
	7.11.1		
9.7.6.4.4	7.10.5.3		
9.7.7	**---**	**‡**	**Heading: Structural integrity reinforcement in cast-in-place beams**
9.7.7.1	---	‡	Introduction to provision
9.7.7.1(a)	7.13.2.2		
9.7.7.1(b)	7.13.2.2		
9.7.7.1(c)	7.13.2.3		
9.7.7.2	7.13.2.5		

Chapter 9 - BEAMS

318-14	318-11	Note	Description
9.7.7.3	7.13.2.2		
	7.13.2.5		
9.7.7.4	7.13.2.2		
	7.13.2.5		
9.7.7.5	7.13.2.4		
	7.13.2.5		
9.7.7.6	7.13.2.4		
	7.13.2.5		
9.8	---	‡	**Heading: Two-way joist systems**
9.8.1	---	‡	**Heading: General**
9.8.1.1	8.13.1		
9.8.1.2	8.13.2		
9.8.1.3	8.13.2		
9.8.1.4	8.13.3		
9.8.1.5	8.13.8		
9.8.1.6	7.13.2.1		
9.8.1.7	8.13.5.3		
	8.13.6.2		
9.8.1.8	8.13.4		
9.8.2	---	‡	**Heading: Joists with structural fillers**
9.8.2.1	8.13.5		
9.8.2.1.1	8.13.5.2		
9.8.2.1.2	8.13.5.1		
9.8.3	---	‡	**Heading: Joists with other fillers**
9.8.3.1	8.13.6		
	8.13.6.1		
9.9	---	‡	**Heading: Deep beams**
9.9.1	---	‡	**Heading: General**
9.9.1.1	10.7.1		
	11.7.1		
9.9.1.2	10.7.1		
	11.7.2		
9.9.1.3	11.7.2		
9.9.2	---	‡	**Heading: Dimensional limits**
9.9.2.1	11.7.3		
9.9.3	---	‡	**Heading: Reinforcement limits**
9.9.3.1	11.7.4		
9.9.3.1(a)	11.7.4.1		
9.9.3.1(b)	11.7.4.2		
9.9.3.2	10.7.3		

Chapter 9 - BEAMS

318-14	318-11	Note	Description
9.9.4	**---**	**‡**	**Heading: Reinforcement detailing**
9.9.4.1	---	‡	Pointer to 20.6.1
9.9.4.2	---	‡	Pointer to 25.2
9.9.4.3	11.7.4.1		
	11.7.4.2		
9.9.4.4	12.10.6		
9.9.4.5	12.11.4		
9.9.4.6	12.11.4		
	12.12.4		

Chapter 10 - COLUMNS

318-14	318-11	Note	Description
10.1	**---**	‡	**Heading: Scope**
10.1.1	---	‡	Scope of chapter
10.1.2	---	‡	Pointer to Ch. 14
10.2	**---**	‡	**Heading: General**
10.2.1	**---**	‡	**Heading: Materials**
10.2.1.1	---	‡	Pointer to Ch. 19
10.2.1.2	---	‡	Pointer to Ch. 20
10.2.1.3	---	‡	Pointer to 20.7
10.2.2	**---**	‡	**Heading: Composite columns**
10.2.2.1	10.13.1		
10.2.3	**---**	‡	**Heading: Connection to other members**
10.2.3.1	---	‡	Pointer to Ch. 15
10.2.3.2	---	‡	Pointer to 16.2
10.2.3.3	---	‡	Pointer to 16.3
10.3	**---**	‡	**Heading: Design limits**
10.3.1	**---**	‡	**Heading: Dimensional limits**
10.3.1.1	10.8.3		
10.3.1.2	10.8.4		
10.3.1.3	10.8.2		
10.3.1.4	10.8.1		
10.3.1.5	R10.8.2		Editorial, from commentary
10.3.1.6	10.13.6.1		
10.4	**---**	‡	**Heading: Required strength**
10.4.1	**---**	‡	**Heading: General**
10.4.1.1	---	‡	Pointer to Ch. 5
10.4.1.2	---	‡	Pointer to Ch. 6
10.4.2	**---**	‡	**Heading: Factored axial force and moment**
10.4.2.1	8.10.1		
	10.3.7		
10.5	**---**	‡	**Heading: Design strength**
10.5.1	**---**	‡	**Heading: General**
10.5.1.1	9.1.1		
	11.1.1		
10.5.1.2	New	‡	Pointer to 21.2
10.5.2	**---**	‡	**Heading: Axial force and moment**
10.5.2.1	---	‡	Pointer to 22.4
10.5.2.2	10.13.3		
	10.13.4		
10.5.3	**---**	‡	**Heading: Shear**
10.5.3.1	---	‡	Pointer to 22.5
10.5.4	**---**	‡	**Heading: Torsion**
10.5.4.1	---	‡	Pointer to Ch. 9
10.6	**---**	‡	**Heading: Reinforcement limits**
10.6.1	**---**	‡	**Heading: Minimum and maximum longitudinal reinforcement**

Chapter 10 - COLUMNS

318-14	318-11	Note	Description
10.6.1.1	10.9.1		
	18.11.2.1		
10.6.1.2	10.13.7.3		
	10.13.8.5		
10.6.2	**---**	**‡**	**Heading: Minimum shear reinforcement**
10.6.2.1	11.4.6.1		
10.6.2.2	11.4.6.3		
10.7	**---**	**‡**	**Heading: Reinforcement detailing**
10.7.1	**---**	**‡**	**Heading: General**
10.7.1.1	---	‡	Pointer to 20.6.1
10.7.1.2	---	‡	Pointer to 25.4
10.7.1.3	---	‡	Pointer to 25.6
10.7.2	**---**	**‡**	**Heading: Reinforcement spacing**
10.7.2.1	---	‡	Pointer to 25.2
10.7.3	**---**	**‡**	**Heading: Longitudinal reinforcement**
10.7.3.1	10.9.2		
	18.11.2.1		
10.7.3.2	10.13.8.6		
10.7.4	**---**	**‡**	**Heading: Offset bent longitudinal reinforcement**
10.7.4.1	7.8.1.1		
	7.8.1.2		
10.7.4.2	7.8.1.5		
10.7.5	**---**	**‡**	**Heading: Splices of longitudinal reinforcement**
10.7.5.1	**---**	**‡**	**Heading: General**
10.7.5.1.1	12.17.1		
10.7.5.1.2	12.17.1		
10.7.5.1.3	---	‡	Pointer to 25.5
10.7.5.2	**---**	**‡**	**Heading: Lap splices**
10.7.5.2.1	12.17.2.1		
	12.17.2.4		
	12.17.2.5		
10.7.5.2.2	12.17.2.2		
	12.17.2.3		
10.7.5.3	**---**	**‡**	**Heading: End-bearing splices**
10.7.5.3.1	12.7.4		
10.7.5.3.2	7.8.2.1		
	7.8.2.2		
10.7.6	**---**	**‡**	**Heading: Transverse reinforcement**
10.7.6.1	**---**	**‡**	**Heading: General**
10.7.6.1.1	---	‡	Scope
10.7.6.1.2	---	‡	Pointer to 25.8.2, 25.8.3, and 25.8.4
10.7.6.1.3	18.11.2.2		
10.7.6.1.4	10.13.8.3		
	10.13.8.4		

Chapter 10 - COLUMNS

318-14	318-11	Note	Description
10.7.6.1.5	7.10.1		
	7.10.2		
	7.10.3		
10.7.6.1.6	7.10.5.7		
10.7.6.2	**---**	**‡**	**Heading: Lateral support of longitudinal bars using ties or hoops**
10.7.6.2.1	7.10.5.5		
	18.11.2.2(c)		
10.7.6.2.2	7.10.5.5		
	7.10.5.6		
	18.11.2.2(c)		
	18.11.2.2(d)		
10.7.6.3	**---**	**‡**	**Heading: Lateral support of longitudinal bars using spirals**
10.7.6.3.1	7.10.4.6		
10.7.6.3.2	7.10.4.6		
	7.10.4.7		
	7.10.4.8		
10.7.6.4	**---**	**‡**	**Heading: Lateral support of offset bent longitudinal bars**
10.7.6.4.1	7.8.1.3		
10.7.6.4.2	7.8.1.3		
10.7.6.5	**---**	**‡**	**Heading: Shear**
10.7.6.5.1	---	‡	Heading: Scope
10.7.6.5.2	11.4.5.1		
	11.4.5.3		

Chapter 11 - WALLS

318-14	318-11	Note	Description
11.1	**---**	**‡**	**Heading: Scope**
11.1.1	14.1.1		Scope of chapter
11.1.2	---	‡	Pointer to Ch. 18
11.1.3	---	‡	Pointer to Ch. 14
11.1.4	14.1.2		Pointer to Ch. 14
11.2	**---**	**‡**	**Heading: General**
11.2.1	**---**	**‡**	**Heading: Materials**
11.2.1.1	---	‡	Pointer to Ch. 19
11.2.1.2	---	‡	Pointer to Ch. 20
11.2.1.3	---	‡	Pointer to 20.7
11.2.2	**---**	**‡**	**Heading: Connection to other members**
11.2.2.1	---	‡	Pointer to 16.2
11.2.2.2	14.2.8		Pointer to 16.3
11.2.3	**---**	**‡**	**Heading: Load distribution**
11.2.3.1	14.2.4		
11.2.4	**---**	**‡**	**Heading: Intersecting elements**
11.2.4.1	14.2.6		
11.3	**---**	**‡**	**Heading: Design limits**
11.3.1	**---**	**‡**	**Heading: Minimum wall thickness**
11.3.1.1	14.2.7		
	14.5.3.1		
	14.5.3.2		
	14.6.1		
11.4	**---**	**‡**	**Heading: Required strength**
11.4.1	**---**	**‡**	**Heading: General**
11.4.1.1	---	‡	Pointer to Ch. 5
11.4.1.2	---	‡	Pointer to Ch. 6
11.4.1.3	14.8.1		
11.4.1.4	14.2.1		
11.4.2	**---**	**‡**	**Heading: Factored axial force and moment**
11.4.2.1	10.3.7		
11.4.3	**---**	**‡**	**Heading: Factored shear**
11.4.3.1	11.1.1		
11.5	**---**	**‡**	**Heading: Design strength**
11.5.1	**---**	**‡**	**Heading: General**
11.5.1.1	9.1.1		
	11.1.1		
11.5.1.2	---	‡	Pointer to 21.2
11.5.2	**---**	**‡**	**Heading: Axial load and in-place or out-of-plane flexure**
11.5.2.1	14.2.2		
	14.4		
11.5.2.2	---	‡	Pointer to 22.3
11.5.3	**---**	**‡**	**Heading: Axial load and out-of-plane flexure - simplified design method**

Chapter 11 - WALLS

318-14	318-11	Note	Description
11.5.3.1	14.5.1		
	14.5.2		
11.5.3.2	14.5.2		
11.5.3.3	---	‡	Pointer to 21.2.2
11.5.3.4	---	‡	Pointer to 11.6
11.5.4	**---**	**‡**	**Heading: In-plane shear**
11.5.4.1	11.9.1		
11.5.4.2	11.9.4		
11.5.4.3	11.9.3		
11.5.4.4	11.1.1		
11.5.4.5	11.9.2		
	11.9.5		
11.5.4.6	11.2.1.2		
	11.2.2.3		
	11.9.2		
	11.9.5		
	11.9.6		
11.5.4.7	11.9.7		
11.5.4.8	11.9.9.1		
11.5.5	**---**	**‡**	**Heading: Out-of-plane shear**
11.5.5.1	---	‡	Pointer to 22.5
11.6	**---**	**‡**	**Heading: Reinforcement limits**
11.6.1	**---**	**‡**	**Heading: Minimum and maximum longitudinal reinforcement**
11.6.1	11.9.8		
	14.2.7		
	14.3.1		
	14.3.2		
	14.3.3		
	16.4.1		
	16.4.2		
	18.11.2.1		
	18.11.2.3		
11.6.2	11.9.8		
	11.9.9.2		
	11.9.9.4		
	14.3.1		
11.7	**---**	**‡**	**Heading: Reinforcement detailing**
11.7.1	**---**	**‡**	**Heading: General**
11.7.1.1	---	‡	Pointer to 20.6.1
11.7.1.2	---	‡	Pointer to 25.4
11.7.1.3	---	‡	Pointer to 25.5
11.7.2	**---**	**‡**	**Heading: Spacing of longitudinal reinforcement**

Chapter 11 - WALLS

318-14	318-11	Note	Description
	7.6.5		
11.7.2.1	11.9.9.5		
	14.3.5		
	7.6.5		
11.7.2.2	11.9.9.5		
	16.4.2		
11.7.2.3	14.3.4		
	10.6.3		
11.7.2.4	18.8.3		
	18.9.2.1		
11.7.3	---	‡	**Heading: Spacing of transverse reinforcement**
11.7.3.1	11.9.9.3		
	14.3.5		
	11.9.9.3		
11.7.3.2	14.3.5		
	16.4.2		
11.7.4	---	‡	**Heading: Lateral support of longitudinal reinforcement**
11.7.4.1	14.3.6		
11.7.5	---	‡	**Heading: Reinforcement around openings**
11.7.5.1	14.3.7		
11.8	---	‡	**Heading: Alternative method for out-of-plane slender wall analysis**
11.8.1	---	‡	**Heading: General**
11.8.1.1	14.8.2		
11.8.1.1(a)	14.8.2.2		
11.8.1.1(b)	14.8.2.3		
11.8.1.1(c)	14.8.2.4		
11.8.1.1(d)	14.8.2.6		
11.8.1.1(e)	14.8.4		
11.8.2	---	‡	**Heading: Modeling**
11.8.2.1	14.8.2.1		
11.8.2.2	14.8.2.5		
11.8.3	---	‡	**Heading: Factored moment**
11.8.3.1	14.8.3		
11.8.4	---	‡	**Heading: Out-of-plane deflection - service loads**
11.8.4.1	14.8.4		
11.8.4.2	14.8.4		
11.8.4.3	14.8.4		
11.8.4.4	14.8.4		

Chapter 12 - DIAPHRAGMS

318-14	318-11	Note	Description
12.1	**---**	**‡**	**Heading: Scope**
12.1.1	---	‡	Scope of chapter
12.1.2	---	‡	Pointer to 18.12
12.2	**---**	**‡**	**Heading: General**
12.2.1	New	~	New chapter
	21.11.3.1		
12.2.2	**---**	**‡**	**Heading: Materials**
12.2.2.1	New	‡	Pointer to Ch. 19
12.2.2.2	New	‡	Pointer to Ch. 20
12.3	**---**	**‡**	**Heading: Design limits**
12.3.1	**---**	**‡**	**Heading: Minimum diaphragm thickness**
12.3.1.1	New	~	New chapter
12.3.1.2	New	~	New chapter
12.4	**---**	**‡**	**Heading: Required strength**
12.4.1	**---**	**‡**	**Heading: General**
12.4.1.1	---	‡	Pointer to Ch. 5
12.4.1.2	New	~	New chapter
12.4.2	**---**	**‡**	**Heading: Diaphragm modeling and analysis**
12.4.2.1	New	~	New chapter
12.4.2.2	---	‡	Pointer to Ch. 6
12.4.2.3	New	~	New chapter
12.4.2.4	New	~	New chapter
12.5	**---**	**‡**	**Heading: Design strength**
12.5.1	**---**	**‡**	**Heading: General**
12.5.1.1	9.1.1		
12.5.1.2	---	‡	Pointer to 21.2
12.5.1.3	New	~	New chapter
12.5.1.4	New	~	New chapter
	21.11.7.2		
12.5.1.5	New	~	New chapter
12.5.2	**---**	**‡**	**Heading: Moment and axial force**
12.5.2.1	New	~	New chapter
	21.11.8		
12.5.2.2	New	~	New chapter
12.5.2.3	New	~	New chapter
12.5.2.4	New	~	New chapter
12.5.3	**---**	**‡**	**Heading: Shear**
12.5.3.1	New	~	New chapter
12.5.3.2	New	~	New chapter
12.5.3.3	New	~	New chapter
	11.1.2		
	21.11.9.1		
12.5.3.4	New	~	New chapter
	11.1.2		

Chapter 12 - DIAPHRAGMS

318-14	318-11	Note	Description
	21.11.9.2		
12.5.3.5	New	~	New chapter
	21.11.9.1		
12.5.3.6	New	~	New chapter
12.5.3.7	New	~	New chapter
12.5.4	**---**	**‡**	**Heading: Collectors**
12.5.4.1	New	~	New chapter
12.5.4.2	---	‡	Pointer to 22.4
12.5.4.3	New	~	New chapter
12.6	**---**	**‡**	**Heading: Reinforcement limits**
12.6.1	---	‡	Pointer to 22.4
12.6.2	---	‡	Pointer to 7.6 and 8.6
12.6.3	New	~	New chapter
12.7	**---**	**‡**	**Heading: Reinforcement limits**
12.7.1	**---**	**‡**	**Heading: General**
12.7.1.1	---	‡	Pointer to 20.6.1
12.7.1.2	---	‡	Pointer to 25.4
12.7.1.3	---	‡	Pointer to 25.5
12.7.1.4	---	‡	Pointer to 25.6
12.7.2	**---**	**‡**	**Heading: Reinforcement spacing**
12.7.2.1	---	‡	Pointer to 25.2
12.7.2.2	New	~	New chapter
12.7.3	**---**	**‡**	**Heading: Diaphragm and collector reinforcement**
12.7.3.1	---	‡	Pointer to 7.7 and 8.7
12.7.3.2	New	~	New chapter
12.7.3.3	New	~	New chapter

Chapter 13 - FOUNDATIONS

318-14	318-11	Note	Description
13.1	**---**	**‡**	**Heading: Scope**
13.1.1	---	‡	Scope of chapter
13.1.2	---	‡	Pointer to 1.4.6
13.2	**---**	**‡**	**Heading: General**
13.2.1	**---**	**‡**	**Heading: General**
13.2.1.1	---	‡	Pointer to Ch. 19
13.2.1.2	---	‡	Pointer to Ch. 20
13.2.1.3	---	‡	Pointer to 20.6
13.2.2	**---**	**‡**	**Heading: Connection to other members**
13.2.2.1	---	‡	Pointer to 16.3
13.2.3	**---**	**‡**	**Heading: Earthquake effects**
13.2.3.1	---	‡	Pointer to 18.2.2.3
13.2.3.2	---	‡	Pointer to 18.13
13.2.4	**---**	**‡**	**Heading: Slabs-on-ground**
13.2.4.1	1.1.7		
13.2.4.2	---	‡	Pointer to 18.13
13.2.5	**---**	**‡**	**Heading: Plain concrete**
13.2.5.1	---	‡	Pointer to Ch. 14
13.2.6	**---**	**‡**	**Heading: Design criteria**
13.2.6.1	15.2.1		
	15.10.1		
13.2.6.2	10.2.1		
	13.5.1		
13.2.6.3	15.5.3		
13.2.6.4	15.4.1		
13.2.7	**---**	**‡**	**Heading: Critical sections for shallow foundations and pile caps**
13.2.7.1	15.4.2		
	15.6.3		
13.2.7.2	15.5.1		
	15.5.2		
13.2.7.3	15.3		
13.2.8	**---**	**‡**	**Heading: Development of reinforcement in shallow foundations and pile caps**
13.2.8.1	15.6.1		
13.2.8.2	15.6.2		
13.2.8.3	15.6.3		
13.2.8.4	12.10.6		
13.3	**---**	**‡**	**Heading: Shallow foundations**
13.3.1	**---**	**‡**	**Heading: General**
13.3.1.1	15.2.2		
13.3.1.2	15.7		
13.3.1.3	15.9.1		

Chapter 13 - FOUNDATIONS

318-14	318-11	Note	Description
13.3.2	---	‡	**Heading: One-way shallow foundations**
13.3.2.1	15.2.1		
13.3.2.2	15.4.3		
13.3.3	---	‡	**Heading: Two-way isolated foundations**
13.3.3.1	15.2.1		
13.3.3.2	15.4.3		
13.3.3.3	15.4.4		
	15.4.4.1		
	15.4.4.2		
13.3.4	---	‡	**Heading: Two-way combined footings and mat foundations**
13.3.4.1	15.2.1		
13.3.4.2	15.10.2		
13.3.4.3	15.10.3		
13.3.4.4	15.10.4		
13.3.5	---	‡	**Heading: Walls as grade beams**
13.3.5.1	14.7.1		
13.3.5.2	14.7.1		
13.3.5.3	14.7.2		
13.4	---	‡	**Heading: Deep foundations**
13.4.1	---	‡	**Heading: General**
13.4.1.1	15.2.2		
13.4.2	---	‡	**Heading: Pile caps**
13.4.2.1	15.7		
13.4.2.2	15.2.3		
13.4.2.3	15.5.3		
13.4.2.4	15.5.3		
13.4.2.5	15.5.4		
	15.5.4.1		
	15.5.4.2		
	15.5.4.3		
13.4.3	---	‡	**Heading: Deep foundation members**
13.4.3.1	---	‡	Pointer to Ch. 10

Chapter 14 - PLAIN CONCRETE

318-14	318-11	Note	Description
14.1	---	‡	**Heading: Scope**
14.1.1	22.1.1		
	22.1.3		
14.1.2	22.2.2		
14.1.3	22.2.1		
	22.6.1		
	22.9.2		
14.1.4	22.10.1		
14.1.5	22.2.1		
	22.7.3		
14.2	---	‡	**Heading: General**
14.2.1	---	‡	**Heading: Materials**
14.2.1.1	---	‡	Pointer to Ch. 19
14.2.1.2	---	‡	Pointer to Ch. 20
14.2.1.3	---	‡	Pointer to Ch. 20.7
14.2.2	---	‡	**Heading: Connection to other members**
14.2.2.1	22.4.6		
14.2.2.2	22.6.6.4		
14.2.3	---	‡	**Heading: Precast**
14.2.3.1	22.9.1		
14.2.3.2	22.9.3		
14.3	---	‡	**Heading: Design limits**
14.3.1	---	‡	**Heading: Bearing walls**
14.3.1.1	22.6.6.2		
	22.6.6.3		
14.3.2	---	‡	**Heading: Footings**
14.3.2.1	22.7.4		
14.3.2.2	22.7.2		
14.3.3	---	‡	**Heading: Pedestals**
14.3.3.1	22.8.2		
14.3.4	---	‡	**Heading: Joint locations and member sizes**
14.3.4.1	22.3.1		
14.3.4.2	22.3.2		
14.4	---	‡	**Heading: Required strength**
14.4.1	---	‡	**Heading: General**
14.4.1.1	22.4.1		
	22.6.2		
	22.7.1		
	22.8.1		
14.4.1.2	---	‡	Pointer to Ch. 6
14.4.1.3	22.4.6		
14.4.2	---	‡	**Heading: Walls**
14.4.2.1	22.6.3		
14.4.3	---	‡	**Heading: Footings**

Chapter 14 - PLAIN CONCRETE

318-14	318-11	Note	Description
14.4.3.1	---	‡	**Heading: General**
14.4.3.1.1	22.7.7		
14.4.3.2	---	‡	**Heading: Factored moment**
14.4.3.2.1	22.7.5		
14.4.3.3	---	‡	**Heading: Factored one-way shear**
14.4.3.3.1	22.7.6.2		
14.4.3.3.2	11.1.3.1		
14.4.3.4	---	‡	**Heading: Factored two-way shear**
14.4.3.4.1	22.7.6.2		
14.4.3.4.2	11.11.1.3		
14.5	---	‡	**Heading: Design strength**
14.5.1	---	‡	**Heading: General**
14.5.1.1	9.1.1		
	22.5.1		
	22.5.2		
	22.5.4		
	22.5.5		
	22.6.4		
	22.7.8		
	22.8.3		
14.5.1.2	---	‡	Pointer to 21.2
14.5.1.3	22.4.4		
14.5.1.4	22.4.3		
14.5.1.5	22.2.4		
14.5.1.6	22.4.5		
14.5.1.7	22.4.7		
14.5.1.8	22.6.6.1		
14.5.2	---	‡	**Heading: Flexure**
14.5.2.1	22.5.1		
14.5.3	---	‡	**Heading: Axial compression**
14.5.3.1	22.5.2		
14.5.4	---	‡	**Heading: Flexure and axial compression**
14.5.4.1	22.5.3		
14.5.4.2	22.6.3		
	22.6.5.1		
	22.6.5.2		
14.5.5	---	‡	**Heading: Shear**
14.5.5.1	22.5.4		
14.5.6	---	‡	**Heading: Bearing**
14.5.6.1	22.5.5		
14.6	---	‡	**Heading: Reinforcement detailing**
14.6.1	22.6.6.5		

Chapter 15 - BEAM-COLUMN AND SLAB-COLUMN JOINTS

318-14	318-11	Note	Description
15.1	**---**	**‡**	**Heading: Scope**
15.1.1	---	‡	Scope of chapter
15.2	**---**	**‡**	**Heading: General**
15.2.1	---	‡	Pointer to 15.3
15.2.2	11.10.1		
15.2.3	---	‡	Pointer to 15.4 and Ch. 20
	11.10.2		
15.2.4	11.10.2		
15.2.5	11.10.2		
15.3	**---**	**‡**	**Heading: Transfer of column axial force through the floor system**
15.3.1	10.12		
15.3.1(a)	10.12.1		
15.3.1(b)	10.12.2		
15.3.1(c)	10.12.3		
15.4	**---**	**‡**	**Heading: Detailing of joints**
15.4.1	11.10.2		
15.4.2	11.4.6.3		
15.4.2.1	11.10.2		
15.4.2.2	New	~	Minimum spacing of transverse reinforcement
15.4.3	7.9.1		
	7.9.2		
15.4.4	---	‡	Pointer to 25.4

Chapter 16 - CONNECTIONS BETWEEN MEMBERS

318-14	318-11	Note	Description
16.1	**---**	**‡**	**Heading: Scope**
16.1.1	---	‡	Scope of chapter
16.2	**---**	**‡**	**Heading: Connections of precast members**
16.2.1	**---**	**‡**	**Heading: General**
16.2.1.1	16.6.1		
16.2.1.2	16.6.1.1		
16.2.1.3	16.5.1.4		
16.2.1.4	16.2.2		
16.2.1.5	16.2.1		
16.2.1.6	16.2.1		
	16.2.3		
16.2.1.7	16.6.1.2		
16.2.1.8	7.13.3		
16.2.2	**---**	**‡**	**Heading: Required strength**
16.2.2.1	---	‡	Pointer to Ch. 5
16.2.2.2	---	‡	Pointer to Ch. 6
16.2.3	**---**	**‡**	**Heading: Design strength**
16.2.3.1	9.1.1		
16.2.3.2	---	‡	Pointer to 21.2
16.2.3.3	16.6.2.1		
16.2.3.4	16.6.1.1		
16.2.4	**---**	**‡**	**Heading: Minimum connection strength and integrity tie requirments**
16.2.4.1	16.5.1		
	16.5.1.1		
16.2.4.2	16.5.1.2		
16.2.4.3	16.5.1.3		
16.2.5	**---**	**‡**	**Heading: Integrity tie requirments for precast concrete bearing wall structures three stories or more in height**
16.2.5	16.5.2		
16.2.5.1	---	‡	Introduction to requirement
16.2.5.1(a)	16.5.2.1		
16.2.5.1(b)	16.5.2.1		
16.2.5.1(c)	16.5.2.1		
16.2.5.1(d)	16.5.2.2		
16.2.5.1(e)	16.5.2.3		
16.2.5.1(f)	16.5.2.4		
16.2.5.2	16.5.2.5		
16.2.6	**---**	**‡**	**Heading: Minimum dimensions at bearing connections**
16.2.6.1	16.6.2.2		
16.2.6.2	16.6.2.2		
16.2.6.3	16.6.2.2		
16.3	**---**	**‡**	**Heading: Connections to foundation**
16.3.1	**---**	**‡**	**Heading: General**

Chapter 16 - CONNECTIONS BETWEEN MEMBERS

318-14	318-11	Note	Description
16.3.1.1	15.8.1		
16.3.1.2	15.8.1.2		
16.3.1.3	7.8.2.4		
16.3.2	**---**	**‡**	**Heading: Required strength**
16.3.2.1	---	‡	Pointer to Ch. 5 and Ch. 6
16.3.3	**---**	**‡**	**Heading: Design strength**
16.3.3.1	9.1.1		
	15.8.3.1		
	15.8.3.2		
16.3.3.2	---	‡	Pointer to 21.2
16.3.3.3	---	‡	Pointer to 22.4
16.3.3.4	15.8.1.1		
16.3.3.5	15.8.1.4		
16.3.3.6	15.8.3		
	15.8.3.3		
	16.2.1		
16.3.3.7	15.8.3.3		
16.3.4	**---**	**‡**	**Heading: Minimum reinforcement for connection between cast-in-place members and foundation**
16.3.4.1	15.8.2.1		
16.3.4.2	15.8.2.2		
16.3.5	**---**	**‡**	**Heading: Details for connection between cast-in-place members and foundation**
16.3.5.1	15.8.2		
16.3.5.2	15.8.1.3		
16.3.5.3	15.8.2.4		
16.3.5.4	15.8.2.3		
16.3.6	**---**	**‡**	**Heading: Details for connection between precast members and foundation**
16.3.6.1	15.8.3.1		
	15.8.3.2		
16.3.6.2	16.5.1.3		
16.4	**---**	**‡**	**Heading: Horizontal shear transfer in composite concrete flexural members**
16.4.1	**---**	**‡**	**Heading: General**
16.4.1.1	17.5.1		
16.4.1.2	17.5.5		
16.4.1.3	---	‡	Pointer to Ch. 26
16.4.2	**---**	**‡**	**Heading: Required strength**
16.4.2.1	---	‡	Pointer to Ch. 5
16.4.2.2	---	‡	Pointer to Ch. 6
16.4.3	**---**	**‡**	**Heading: Design strength**
16.4.3.1	17.5.3		
16.4.3.2	---	‡	Pointer to 21.2

Chapter 16 - CONNECTIONS BETWEEN MEMBERS

318-14	318-11	Note	Description
16.4.4	---	‡	**Heading: Nominal horizontal shear strength**
16.4.4.1	17.5.3.4		
16.4.4.2	17.5.3.1		
	17.5.3.2		
	17.5.3.3		
16.4.4.3	17.5.2		
16.4.4.4	17.4.3		
16.4.5	---	‡	**Heading: Alternative method for calculating design horizontal shear strength**
16.4.5.1	17.5.4		
16.4.5.2	17.5.4.1		
16.4.5.3	17.4.3		
16.4.6	---	‡	**Heading: Minimum reinforcement for horizontal shear transfer**
16.4.6.1	17.6.1		
16.4.7	---	‡	**Heading: Reinforcement detailing for horizontal shear transfer**
16.4.7.1	17.6.2		
16.4.7.2	17.6.1		
16.4.7.3	17.4.2		
	17.6.3		
16.5	---	‡	**Heading: Brackets and corbels**
16.5.1	---	‡	**Heading: General**
16.5.1.1	11.8.1		
16.5.2	---	‡	**Heading: Dimensional limits**
16.5.2.1	11.8.1		
16.5.2.2	11.8.2		
16.5.2.3	11.8.7		
16.5.2.4	11.8.3.2.1		
16.5.2.5	11.8.3.2.2		
16.5.3	---	‡	**Heading: Required strength**
16.5.3.1	11.8.3		
16.5.3.2	---	‡	Pointer to Ch. 5
16.5.3.3	---	‡	Pointer to Ch. 6
16.5.3.4	11.8.3.4		
16.5.3.5	11.8.3.4		
16.5.4	---	‡	**Heading: Design strength**
16.5.4.1	9.1.1		
	11.1.1		
	11.8.3.4		
16.5.4.2	---	‡	Pointer to 21.2
16.5.4.3	11.8.3.4		
16.5.4.4	11.8.3.2		
16.5.4.5	11.8.3.3		

Chapter 16 - CONNECTIONS BETWEEN MEMBERS

318-14	318-11	Note	Description
16.5.5	**---**	**‡**	**Heading: Reinforcement limits**
16.5.5.1	11.8.3.5		
	11.8.5		
16.5.5.2	11.8.4		
16.5.6	**---**	**‡**	**Heading: Reinforcement detailing**
16.5.6.1	---	‡	Pointer to 20.6.1
16.5.6.2	---	‡	Pointer to 25.2
16.5.6.3	11.8.6		
16.5.6.4	12.12.1		
16.5.6.5	12.10.6		
16.5.6.6	11.8.4		

Chapter 17 - ANCHORING TO CONCRETE

318-14	318-11	Note	Description
17.1	---	‡	**Heading: Scope**
17.1.1	D.2.1		
17.1.2	D.2.2		
17.1.3	D.2.3		
17.1.4	D.2.4		
17.2	---	‡	**Heading: General**
17.2.1	D.3.1		
17.2.1.1	D.3.1.1		
17.2.2	D.3.2		
17.2.3	---	‡	**Heading: Seismic design**
17.2.3.1	D.3.3.1		
17.2.3.2	D.3.3.2		
17.2.3.3	D.3.3.3		
17.2.3.4	---	‡	**Heading: Requirements for tensile loading**
17.2.3.4.1	D.3.3.4.1		
17.2.3.4.2	D.3.3.4.2		
17.2.3.4.3	D.3.3.4.3		
17.2.3.4.4	D.3.3.4.4		
17.2.3.4.5	D.3.3.4.5		
17.2.3.5	---	‡	**Heading: Requirements for shear loading**
17.2.3.5.1	D.3.3.5.1		
17.2.3.5.2	D.3.3.5.2		
17.2.3.5.3	D.3.3.5.3		
17.2.3.5.4	D.3.3.5.4		
17.2.3.6	D.3.3.6		
17.2.3.7	D.3.3.7		
17.2.4	D.3.4		
17.2.5	D.3.5		
17.2.6	D.3.6		
17.2.7	D.3.7		
17.3	---	‡	**Heading: General requirements for strength of anchors**
17.3.1	D.4.1		
17.3.1.1	D.4.1.1		
17.3.1.2	D.4.1.2		
17.3.1.3	D.4.1.3		
17.3.2	D.4.2		
17.3.2.1	D.4.2.1		
17.3.2.2	D.4.2.2		
17.3.2.3	D.4.2.3		
17.3.3	D.4.3		
17.4	---	‡	**Heading: Design requirements for tensile loading**
17.4.1	---	‡	**Heading: Steel strength of anchor in tension**
17.4.1.1	D.5.1.1		
17.4.1.2	D.5.1.2		

Chapter 17 - ANCHORING TO CONCRETE

318-14	318-11	Note	Description
17.4.2	---	‡	**Heading: Concrete breakout strength of anchor in tension**
17.4.2.1	D.5.2.1		
17.4.2.2	D.5.2.2		
17.4.2.3	D.5.2.3		
17.4.2.4	D.5.2.4		
17.4.2.5	D.5.2.5		
17.4.2.6	D.5.2.6		
17.4.2.7	D.5.2.7		
17.4.2.8	D.5.2.8		
17.4.2.9	D.5.2.9		
17.4.3	---	‡	**Heading: Pullout strength of cast-in, post-installed expansion and undercut anchors in tension**
17.4.3.1	D.5.3.1		
17.4.3.2	D.5.3.2		
17.4.3.3	D.5.3.3		
17.4.3.4	D.5.3.4		
17.4.3.5	D.5.3.5		
17.4.3.6	D.5.3.6		
17.4.4	---	‡	**Heading: Concrete side-face blowout strength of a headed anchor in tension**
17.4.4.1	D.5.4.1		
17.4.4.2	D.5.4.2		
17.4.5	---	‡	**Heading: Bond strength of adhesive anchor in tension**
17.4.5.1	D.5.5.1		
17.4.5.2	D.5.5.2		
17.4.5.3	D.5.5.3		
17.4.5.4	D.5.5.4		
17.4.5.5	D.5.5.5		
17.5	---	‡	**Heading: Design requirements for shear loading**
17.5.1	---	‡	**Heading: Steel strength of anchor in shear**
17.5.1.1	D.6.1.1		
17.5.1.2	D.6.1.2		
17.5.1.3	D.6.1.3		
17.5.2	---	‡	**Heading: Concrete breakout strength of anchor in shear**
17.5.2.1	D.6.2.1		
17.5.2.2	D.6.2.2		
17.5.2.3	D.6.2.3		
17.5.2.4	D.6.2.4		
17.5.2.5	D.6.2.5		
17.5.2.6	D.6.2.6		
17.5.2.7	D.6.2.7		
17.5.2.8	D.6.2.8		
17.5.2.9	D.6.2.9		
17.5.3	---	‡	**Heading: Concrete pryout strength of anchor in shear**

Chapter 17 - ANCHORING TO CONCRETE

318-14	318-11	Note	Description
17.5.3.1	D.6.3.1		
17.6	---	‡	**Heading: Interaction of tensile and shear forces**
17.6	D.7		
17.6.1	D.7.1		
17.6.2	D.7.2		
17.6.3	D.7.3		
17.7	---	‡	**Heading: Required edge distances, spacings, and thicknesses to preclude splitting failure**
17.7	D.8		
17.7.1	D.8.1		
17.7.2	D.8.2		
17.7.3	D.8.3		
17.7.4	D.8.4		
17.7.5	D.8.5		
17.7.6	D.8.6		
17.7.7	D.8.7		
17.8	---	‡	**Heading: Installation and inspection of anchors**
17.8.1	D.9.1		
17.8.2	D.9.2		
17.8.2.1	D.9.2.1		
17.8.2.2	D.9.2.2		
17.8.2.3	D.9.2.3		
17.8.2.4	D.9.2.4		

Chapter 18 - EARTHQUAKE-RESISTANT STRUCTURES

318-14	318-11	Note	Description
18.1	**---**	**‡**	**Heading: Scope**
18.1.1	---	‡	Scope of chapter
18.1.2	21.1.1.1		
18.2	**---**	**‡**	**Heading: General**
18.2.1	**---**	**‡**	**Heading: Structural systems**
18.2.1.1	21.1.1.2		
18.2.1.2	21.1.1.3		
18.2.1.3	21.1.1.4		
18.2.1.4	21.1.1.5		
18.2.1.5	21.1.1.6		
18.2.1.6	21.1.1.7		
18.2.1.7	21.1.1.8		
18.2.2	**---**	**‡**	**Heading: Analysis and proportioning of structural members**
18.2.2.1	21.1.2.1		
18.2.2.2	21.1.2.2		
18.2.2.3	21.1.2.3		
18.2.3	**---**	**‡**	**Heading: Anchoring to concrete**
18.2.3.1	21.1.8		
18.2.4	**---**	**‡**	**Heading: Strength reduction factors**
18.2.4.1	21.1.3		
18.2.5	**---**	**‡**	**Heading: Concrete in special moment frames and special structural walls**
18.2.5.1	---	‡	Pointer to Table 19.2.1.1
18.2.6	**---**	**‡**	**Heading: Reinforcement in special moment frames and special structural walls**
18.2.6.1	---	‡	Pointer to 20.2.2
18.2.7	**---**	**‡**	**Heading: Mechanical splices in special moment frames and special structural walls**
18.2.7.1	21.1.6.1		
18.2.7.2	21.1.6.2		
18.2.8	**---**	**‡**	**Heading: Welded splices in special moment frames and special structural walls**
18.2.8.1	21.1.7.1		
18.2.8.2	21.1.7.2		
18.3	**---**	**‡**	**Heading: Ordinary moment frames**
18.3.1	**---**	**‡**	**Heading: Scope**
18.3.1.1	21.2.1		
18.3.2	12.11.1		
	12.11.2		
	21.2.2		
18.3.3	21.2.3		
	21.3.3.2		

Chapter 18 - EARTHQUAKE-RESISTANT STRUCTURES

318-14	318-11	Note	Description
18.4	---	‡	**Heading: Intermediate moment frames**
18.4.1	---	‡	**Heading: Scope**
18.4.1.1	21.3.1		
18.4.2	---	‡	**Heading: Beams**
18.4.2.1	12.11.1		
	12.11.2		
	21.2.2		
18.4.2.2	21.3.4.1		
18.4.2.3	21.3.3.1		
18.4.2.4	21.3.4.2		
18.4.2.5	21.3.4.3		
18.4.2.6	21.3.2		
18.4.3	---	‡	**Heading: Columns**
18.4.3.1	21.3.3.2		
18.4.3.2	21.3.5.1		
18.4.3.3	21.3.5.2		
18.4.3.4	21.3.5.3		
18.4.3.5	21.3.5.4		
18.4.3.6	21.3.5.6		
18.4.4	---	‡	**Heading: Joints**
18.4.4.1	21.3.5.5		
18.4.5	---	‡	**Heading: Two-way slabs without beams**
18.4.5.1	21.3.6.1		
18.4.5.2	21.3.6.2		
18.4.5.3	21.3.6.3		
18.4.5.4	21.3.6.4		
18.4.5.5	21.3.6.5		
18.4.5.6	21.3.6.6		
18.4.5.7	21.3.6.7		
18.4.5.8	21.3.6.8		
18.5	---	‡	**Heading: Intermediate precast structural walls**
18.5.1	---	‡	**Heading: Scope**
18.5.1.1	21.4.1		
18.5.2	---	‡	**Heading: General**
18.5.2.1	21.4.2		
18.5.2.2	21.4.3		
18.5.2.3	21.4.4		
18.6	---	‡	**Heading: Beams of special moment frames**
18.6.1	---	‡	**Heading: Scope**
18.6.1.1	21.5.1		
18.6.1.2	---	‡	Scope

Chapter 18 - EARTHQUAKE-RESISTANT STRUCTURES

318-14	318-11	Note	Description
18.6.2	---	‡	**Heading: Dimensional limits**
18.6.2.1	21.5.1.2		
	21.5.1.3		
	21.5.1.4		
18.6.3	---	‡	**Heading: Longitudinal reinforcement**
18.6.3.1	21.5.2.1		
18.6.3.2	21.5.2.2		
18.6.3.3	21.5.2.3		
18.6.3.4	21.5.2.4		
18.6.3.5	21.5.2.5		
18.6.4	---	‡	**Heading: Transverse reinforcement**
18.6.4.1	21.5.3.1		
18.6.4.2	21.5.3.3		
18.6.4.3	21.5.3.6		
18.6.4.4	21.5.3.2		
18.6.4.5	21.5.3.5		
18.6.4.6	21.5.3.4		
18.6.4.7	21.5.1.1		
	21.5.3.2		
18.6.5	---	‡	**Heading: Shear strength requirements**
18.6.5.1	---	‡	**Heading: Design forces**
	21.5.4.1		
18.6.5.2	---	‡	**Heading: Transverse reinforcement**
	21.5.4.2		
18.7	---	‡	**Heading: Columns of special moment frames**
18.7.1	---	‡	**Heading: Scope**
18.7.1.1	21.6.1		
18.7.2	21.6.1.1		
	21.6.1.2		
18.7.3	---	‡	**Heading: Minimum flexural strength of columns**
18.7.3.1	21.6.2.1		
18.7.3.2	21.6.2.2		
18.7.3.3	21.6.2.3		
18.7.4	---	‡	**Heading: Longitudinal reinforcement**
18.7.4.1	21.6.3.1		
18.7.4.2	21.6.3.2		
18.7.4.3	21.6.3.3		
18.7.5	---	‡	**Heading: Transverse reinforcement**
18.7.5.1	21.6.4.1		
18.7.5.2	21.6.4.2	~	Revised confinement for columns
18.7.5.3	21.6.4.3		
18.7.5.4	21.6.4.4	~	Revised confinement for columns
18.7.5.5	21.6.4.5		
18.7.5.6	21.6.4.6		

Chapter 18 - EARTHQUAKE-RESISTANT STRUCTURES

318-14	318-11	Note	Description
18.7.5.7	21.6.4.7		
18.7.6	---	‡	**Heading: Shear strength**
18.7.6.1	---	‡	**Heading: Design forces**
18.7.6.1.1	21.6.5.1		
18.7.6.2	---	‡	**Heading: Transverse reinforcement**
18.7.6.2.1	21.6.5.2		
18.8	---	‡	**Heading: Joints of special moment frames**
18.8.1	---	‡	**Heading: Scope**
18.8.1.1	21.7.1		
18.8.2	---	‡	**Heading: General**
18.8.2.1	21.7.2.1		
18.8.2.2	21.7.2.2		
18.8.2.3	21.7.2.3		
18.8.2.4	New	~	Beam-column joints with high aspect ratio
18.8.3	---	‡	**Heading: Transverse reinforcement**
18.8.3.1	21.7.3.1	~	Revised confinement for columns
18.8.3.2	21.7.3.2	~	Revised confinement for columns
18.8.3.3	21.7.3.3		
18.8.3.4	New	~	Detailing in beam-column joints
18.8.4	---	‡	**Heading: Shear strength**
18.8.4.1	21.7.4.1		
	21.7.4.2		
18.8.4.2	21.7.4.1		
18.8.4.3	21.7.4.1		
18.8.5	---	‡	**Heading: Development length of bars in tension**
18.8.5.1	21.7.5.1		
18.8.5.2	New	~	Detailing in beam-column joints
18.8.5.3	21.7.5.2		
18.8.5.4	21.7.5.3		
18.8.5.5	21.7.5.4		
18.9	---	‡	**Heading: Special moment frame members constructed using precast concrete**
18.9.1	---	‡	**Heading: Scope**
18.9.1.1	21.8.1		
18.9.2	---	‡	**Heading: General**
18.9.2.1	21.8.2		
18.9.2.2	21.8.3		
18.9.2.3	21.8.4		
18.10	---	‡	**Heading: Special structural walls**
18.10.1	---	‡	**Heading: Scope**
18.10.1.1	21.9.1		
18.10.1.2	21.9.1		
18.10.2	---	‡	**Heading: Reinforcement**
18.10.2.1	21.9.2.1		

Chapter 18 - EARTHQUAKE-RESISTANT STRUCTURES

318-14	318-11	Note	Description
18.10.2.2	21.9.2.2	~	Revised detailing for special structural walls
18.10.2.3	21.9.2.3		
18.10.3	---	‡	**Heading: Design forces**
	21.9.3		
18.10.4	---	‡	**Heading: Shear strength**
18.10.4.1	21.9.4.1		
18.10.4.2	21.9.4.2		
18.10.4.3	21.9.4.3		
18.10.4.4	21.9.4.4		
18.10.4.5	21.9.4.5		
18.10.5	---	‡	**Heading: Design for flexure and axial force**
18.10.5.1	21.9.5.1		
18.10.5.2	21.9.5.2		
18.10.6	---	‡	**Heading: Boundary elements of special structural walls**
18.10.6.1	21.9.6.1		
18.10.6.2	21.9.6.2	~	Revised detailing for special structural walls
18.10.6.3	21.9.6.3		
18.10.6.4	21.9.6.4	~	Revised detailing for special structural walls Revised confinement for columns
18.10.6.5	21.9.6.5	~	Revised detailing for special structural walls
18.10.7	---	‡	**Heading: Coupling beams**
18.10.7.1	21.9.7.1		
18.10.7.2	21.9.7.2		
18.10.7.3	21.9.7.3		
18.10.7.4	21.9.7.4	~	Revised confinement for columns
18.10.8	---	‡	**Heading: Wall piers**
18.10.8.1	21.9.8.1		
18.10.8.2	21.9.8.2		
18.10.9	---	‡	**Heading: Construction joints**
18.10.9.1	21.9.9		
18.10.10	---	‡	**Heading: Discontinuous walls**
18.10.10.1	21.9.10		
18.11	---	‡	**Heading: Special structural walls constructed using precast concrete**
18.11.1	---	‡	**Heading: Scope**
18.11.1.1	21.10.1		
18.11.2	---	‡	**Heading: General**
18.11.2.1	21.10.2		
18.11.2.2	21.10.3		
18.12	---	‡	**Heading: Structural diaphragms and trusses**
18.12.1	---	‡	**Heading: Scope**
18.12.1.1	21.11.1		
18.12.1.2	21.11.1		
18.12.2	---	‡	**Heading: Design forces**

Chapter 18 - EARTHQUAKE-RESISTANT STRUCTURES

318-14	318-11	Note	Description
18.12.2.1	21.11.2.1		
18.12.3	---	‡	**Heading: Seismic load path**
18.12.3.1	21.11.3.1		
18.12.3.2	21.11.3.2		
18.12.4	---	‡	**Heading: Cast-in-place composite-topping slab diaphragms**
18.12.4.1	21.11.4		
18.12.5	---	‡	**Heading: Cast-in-place noncomposite-topping slab diaphragms**
18.12.5.1	21.11.5		
18.12.6	---	‡	**Heading: Minimum thickness of diaphragms**
18.12.6.1	21.11.6		
18.12.7	---	‡	**Heading: Reinforcement**
18.12.7.1	21.11.7.1		
18.12.7.2	21.11.7.2		
18.12.7.3	21.11.7.3		
18.12.7.4	21.11.7.4		
18.12.7.5	21.11.7.5		
18.12.7.6	21.11.7.6		
18.12.8	---	‡	**Heading: Flexural strength**
18.12.8.1	21.11.8		
18.12.9	---	‡	**Heading: Shear strength**
18.12.9.1	21.11.9.1		
18.12.9.2	21.11.9.2		
18.12.9.3	21.11.9.3		
18.12.9.4	21.11.9.4		
18.12.10	---	‡	**Heading: Construction joints**
18.12.10.1	21.11.10		
18.12.11	---	‡	**Heading: Structural trusses**
18.12.11.1	21.11.11.1	~	Revised confinement for columns
18.12.11.2	21.11.11.2		
18.13	---	‡	**Heading: Foundations**
18.13.1	---	‡	**Heading: Scope**
18.13.1.1	21.12.1.1		
18.13.1.2	21.12.1.2		
18.13.2	---	‡	**Heading: Footings, foundation mats, and pile caps**
18.13.2.1	21.12.2.1		
18.13.2.2	21.12.2.2		
18.13.2.3	21.12.2.3		
18.13.2.4	21.12.2.4		
18.13.2.5	21.12.2.5		
18.13.3	---	‡	**Heading: Grade beams and slabs-on-ground**
18.13.3.1	21.12.3.1		
18.13.3.2	21.12.3.2		
18.13.3.3	21.12.3.3		

Chapter 18 - EARTHQUAKE-RESISTANT STRUCTURES

318-14	318-11	Note	Description
18.13.3.4	21.12.3.4		
18.13.4	---	‡	**Heading: Piles, piers, and caissons**
18.13.4.1	21.12.4.2		
18.13.4.2	21.12.4.3		
18.13.4.3	21.12.4.4		
18.13.4.4	21.12.4.5		
18.13.4.5	21.12.4.6		
18.13.4.6	21.12.4.7		
18.14	---	‡	**Heading: Members not designated as part of the seismic-force-resisting system**
18.14.1	---	‡	**Heading: Scope**
18.14.1.1	21.13.1		
18.14.2	---	‡	**Heading: Design actions**
18.14.2.1	21.13.3		
	21.13.6		
18.14.3	---	‡	**Heading: Cast-in-place beams and columns**
18.14.3.1	21.13.2		
18.14.3.2	21.13.3		
18.14.3.2(a)	21.13.3.1		
18.14.3.2(b)	21.13.3.2		
18.14.3.2(c)	21.13.3.3		
18.14.3.3	21.13.4		
18.14.3.3(a)	21.13.4.1		
18.14.3.3(b)	21.13.4.2		
18.14.3.3(c)	21.13.4.3		
18.14.4	---	‡	**Heading: Precast beams and columns**
18.14.4.1	21.13.5		
18.14.5	---	‡	**Heading: Slab-column connections**
18.14.5.1	21.13.6		
18.14.6	---	‡	**Heading: Wall piers**
18.14.6.1	21.13.7		

Chapter 19 - CONCRETE: DESIGN AND DURABILITY REQUIREMENTS

318-14	318-11	Note	Description
19.1	---	‡	**Heading: Scope**
19.1.1	---	‡	Scope of chapter
19.2	---	‡	**Heading: Concrete design properties**
19.2.1	---	‡	**Heading: Specified compressive strength**
19.2.1.1	1.1.1		
	4.1.1		
	5.1.1		
	5.1.6		
	21.1.4.1		
	21.1.4.2		
	21.1.4.3		
	22.2.3		
19.2.1.2	5.1.1		
19.2.1.3	5.1.3		
19.2.2	---	‡	**Heading: Modulus of elasticity**
19.2.2.1	8.5.1		
19.2.3	---	‡	**Heading: Modulus of rupture**
19.2.3.1	9.5.2.3		
19.2.4	---	‡	**Heading: Lightweight concrete**
19.2.4.1	8.6.1		
19.2.4.2	8.6.1		
	22.2.4		
19.2.4.3	5.1.4		
	8.6.1		
19.3	---	‡	**Heading: Concrete durability requirements**
19.3.1	---	‡	**Heading: Exposure categories and classes**
19.3.1.1	4.2.1	~	Changing description of "F Conditions" Changing "P" to "W"
19.3.2	---	‡	**Heading: Requirments for concrete mixtures**
19.3.2.1	4.1.2		
	4.3.1	~	Changing "P" to "W" and changing values of "F" Update of cement types
19.3.3	---	‡	**Heading: Additional requirements for freezing-and-thawing exposure**
19.3.3.1	4.4.1		
19.3.3.2	4.4.1	~	Clarify required air volume for air-entrained concrete
19.3.3.3	4.4.1		
19.3.3.4	4.4.2		
19.3.4	---	‡	**Heading: Alternative combinations of cementitious materials for sulfate exposure**
19.3.4.1	4.5.1		
19.4	---	‡	**Heading: Grout durability requirements**
19.4.1	---	~	Added chloride limits for grout similar to concrete

Chapter 20 - STEEL REINFORCEMENT PROPERTIES, DURABILITY, AND EMBEDMENTS

318-14	318-11	Note	Description
20.1	**---**	**‡**	**Heading: Scope**
20.1.1	---	‡	Scope of chapter
20.1.2	---	‡	Pointer to 20.9
20.2	**---**	**‡**	**Heading: Nonprestressed bars and wires**
20.2.1	**---**	**‡**	**Heading: Material properties**
20.2.1.1	3.5.1		
20.2.1.2	3.5.3.2	~	Revise to 0.2 percent offset method to define yield
	3.5.3.5	~	Revise to 0.2 percent offset method to define yield
	3.5.3.6	~	Revise to 0.2 percent offset method to define yield
	3.5.3.7	~	Revise to 0.2 percent offset method to define yield
	3.5.3.10	~	Revise to 0.2 percent offset method to define yield
	3.5.3.11	~	Revise to 0.2 percent offset method to define yield
	3.5.4.2	~	Revise to 0.2 percent offset method to define yield
20.2.1.3	3.5.3.1		
	3.5.3.3		
20.2.1.4	3.5.4.1		
20.2.1.5	3.5.3.4		
20.2.1.6	3.5.9		
20.2.1.7	3.5.3.5		
	3.5.3.6		
	3.5.3.7		
	3.5.3.10		
	3.5.3.11		
	3.5.4.2		
20.2.1.7.1	3.5.3.5		
	3.5.3.11		
20.2.1.7.2	3.5.3.7		
	3.5.3.11		
20.2.1.7.3	3.5.3.6		
	3.5.3.7		
	3.5.3.11		
20.2.2	**---**	**‡**	**Heading: Design properties**
20.2.2.1	10.2.4		
20.2.2.2	8.5.2		
20.2.2.3	New	~	Clarification of yield strength
20.2.2.4	3.5.1		
	3.5.3.3		
	3.5.4.1		
	3.5.4.2		
	9.4		
	10.9.3		
	11.4.2		
	11.5.3.4		
	11.6.6		

Chapter 20 - STEEL REINFORCEMENT PROPERTIES, DURABILITY, AND EMBEDMENTS

318-14	318-11	Note	Description
	21.1.5.1		
	21.1.5.2		
	21.1.5.4		
	21.1.5.5		
20.2.2.5	21.1.5.2	~	Elongation of seismic reinforcement
20.3	---	‡	**Heading: Prestressing strands, wires, and bars**
20.3.1	---	‡	**Heading: Material properties**
20.3.1.1	3.5.6.1		
20.3.1.2	3.5.6.2		
20.3.1.3	21.1.5.3		
20.3.2	---	‡	**Heading: Design properties**
20.3.2.1	8.5.3		
20.3.2.2	New	~	Show values for f_{pu} from ASTMs
20.3.2.3	---	‡	**Heading: Stress in bonded prestressed reinforcement at nominal flexural strength, fps**
20.3.2.3.1	18.7.2		
20.3.2.3.2	---	‡	Pointer to 25.4.8.3
20.3.2.4	---	‡	**Heading: Stress in unbonded prestressed reinforcement at nominal flexural strength, fps**
20.3.2.4.1	18.7.2		
	18.7.2(c)		
20.3.2.5	---	‡	**Heading: Permissible tensile stresses in prestressed reinforcement**
20.3.2.5.1	18.5.1		
20.3.2.6	---	‡	**Heading: Prestress losses**
20.3.2.6.1	18.6.1		
20.3.2.6.2	18.6.2.2		
20.3.2.6.3	18.6.3		
20.4	---	‡	**Heading: Structural steel, pipe, and tubing for composite columns**
20.4.1	---	‡	**Heading: Material properties**
20.4.1.1	3.5.7.1		
20.4.1.2	3.5.7.2		
20.4.2	---	‡	**Heading: Design properties**
20.4.2.1	---	‡	Pointer to 20.4.1 for f_y per ASTM
20.4.2.2	10.13.7.1		
	10.13.8.1		
20.5	---	‡	**Heading: Headed shear stud reinforcement**
20.5.1	3.5.5.1		
20.6	---	‡	**Heading: Provisions for durability of steel reinforcement**
20.6.1	---	‡	**Heading: Specified concrete cover**
20.6.1.1	7.7.1		
	7.7.2		

Chapter 20 - STEEL REINFORCEMENT PROPERTIES, DURABILITY, AND EMBEDMENTS

318-14	318-11	Note	Description
	7.7.3		
20.6.1.2	8.14.2		
20.6.1.3	---	‡	**Heading: Specified concrete cover requirements**
20.6.1.3.1	7.7.1		
20.6.1.3.2	7.7.2		
20.6.1.3.3	7.7.3		
20.6.1.3.4	7.7.4		
20.6.1.3.5	7.7.5		
20.6.1.4	---	‡	**Heading: Specified concrete cover requirements for corrosive environments**
20.6.1.4.1	7.7.6		
20.6.1.4.2	7.7.6.1		
20.6.1.4.3	7.7.6.1		
20.6.2	---	‡	**Heading: Nonprestressed coated reinforcement**
20.6.2.1	3.5.3.8		
	3.5.3.9		
	3.5.3.10		
20.6.2.2	3.5.3.8		
20.6.2.3	3.5.3.9		
20.6.3	---	‡	**Heading: Corrosion protection for unbonded prestressing reinforcement**
20.6.3.1	18.16.1		
	18.16.2		
20.6.3.2	18.16.3		
20.6.3.3	18.16.4		
20.6.4	---	‡	**Heading: Corrosion protection for grouted tendons**
20.6.4.1	18.17.1		
20.6.4.2	18.17.4		
20.6.4.3	18.17.2		
20.6.4.4	18.17.3		
20.6.5	---	‡	**Heading: Corrosion protection for post-tensioning anchorages, couplers, and end fittings**
20.6.5.1	18.21.4		
20.6.6	---	‡	**Heading: Corrosion protection for external post-tensioning anchorages, couplers, and end fittings**
20.6.6.1	18.22.4		
20.7	---	‡	**Heading: Embedments**
20.7.1	6.3.3		
	6.3.5.3		
	6.4.3		
20.7.2	6.3.1		
20.7.3	6.3.2		
20.7.4	6.3.11		
20.7.5	6.3.10		

Chapter 22 - SECTIONAL STRENGTH

318-14	318-11	Note	Description
22.1	**---**	**‡**	**Heading: Scope**
22.1.1	---	‡	Scope of chapter
22.1.2	8.3.4		
	10.2.2		
22.1.3	8.1.1		
	9.1.1		
22.2	**---**	**‡**	**Heading: Design assumptions for moment and axial strength**
22.2.1	**---**	**‡**	**Heading: Equilibrium and strain compatibility**
22.2.1.1	10.2.1		
	10.3.1		
	18.3.1		
22.2.1.2	10.2.2		
22.2.1.3	18.7.1		
22.2.1.4	18.3.2.1		
22.2.2	**---**	**‡**	**Heading: Design assumptions for concrete**
22.2.2.1	10.2.3		
22.2.2.2	10.2.5		
	18.3.2.2		
22.2.2.3	10.2.6		
22.2.2.4	10.2.7		
22.2.2.4.1	10.2.7.1		
22.2.2.4.2	10.2.7.2		
22.2.2.4.3	10.2.7.3		
22.2.3	**---**	**‡**	**Heading: Design assumptions for nonprestressed reinforcement**
22.2.3.1	10.3.5.1		Pointer to 20.2.1
22.2.3.2	---	‡	Pointer to 20.2.2.1 and 20.2.2.2
22.2.4	**---**	**‡**	**Heading: Design assumptions for prestressing reinforcement**
22.2.4.1	---	‡	Pointer to 20.3.1 and 20.3.2.3
22.2.4.2	---	‡	Pointer to 20.3.1 and 20.3.2.4
22.2.4.3	---	‡	Pointer to 25.4.8.3 and 25.4.8.1(b)
22.3	**---**	**‡**	**Heading: Moment strength**
22.3.1	**---**	**‡**	**Heading: General**
22.3.1.1	---	‡	Pointer to 22.2
22.3.2	**---**	**‡**	**Heading: Prestressed concrete members**
22.3.2.1	18.7.3		
22.3.2.2	18.7.3		
22.3.3	**---**	**‡**	**Heading: Composite concrete members**
22.3.3.1	10.13.2		
	17.1.1		
22.3.3.2	17.2.1		
22.3.3.3	17.2.4		
22.3.3.4	17.2.3		

Chapter 22 - SECTIONAL STRENGTH

318-14	318-11	Note	Description
22.4	**---**	**‡**	**Heading: Axial strength or combined moment and axial strength**
22.4.1	**---**	**‡**	**Heading: General**
22.4.1.1	---	‡	Pointer to 22.2
22.4.2	**---**	**‡**	**Heading: Maximum axial strength**
22.4.2.1	10.3.6		
	10.3.6.1		
	10.3.6.2		
	10.3.6.3		
	10.13.8.2		
22.4.2.2	10.3.6.1		
	10.3.6.2		
22.4.2.3	10.3.6.3	~	Define P_o for prestressed columns
22.4.2.4	---	‡	Pointer to 10.7.6.2 and 25.8.2
22.4.2.5	---	‡	Pointer to 10.7.6.3 and 25.8.3
22.4.3	**---**	**‡**	**Heading: Maximum axial tensile strength**
22.4.3.1	A.4.1	~	Added a tensile strength of a section for all members
22.5	**---**	**‡**	**Heading: One-way shear strength**
22.5.1	**---**	**‡**	**Heading: General**
22.5.1.1	11.1.1		
22.5.1.2	11.4.7.9		
22.5.1.3	---	‡	Pointer to 22.5.5, 22.5.6, and 22.5.7
22.5.1.4	---	‡	Pointer to 22.5.8 and 22.5.9
22.5.1.5	---	‡	Pointer to 19.2.4
22.5.1.6	---	‡	Pointer to 22.5.10
22.5.1.7	11.1.1.1		
22.5.1.8	11.1.1.2		
22.5.1.9	11.1.1.2		
22.5.2	**---**	**‡**	**Heading: Geometric assumptions**
22.5.2.1	11.3.1		
	11.4.3		
22.5.2.2	11.2.3		
	11.4.7.3		
22.5.3	**---**	**‡**	**Heading: Limiting material strengths**
22.5.3.1	11.1.2		
22.5.3.2	11.1.2.1		
22.5.3.3	---	‡	Pointer to 20.2.2.4

Chapter 22 - SECTIONAL STRENGTH

318-14	318-11	Note	Description
22.5.4	---	‡	**Heading: Composite concrete members**
22.5.4.1	17.1.1		
22.5.4.2	17.2.4		
22.5.4.3	17.2.3		
22.5.4.4	17.2.1		
	17.4.1		
22.5.4.5	17.4.1		
	17.4.2		
22.5.5	---	‡	**Heading: Vc for nonprestressed members without axial force**
22.5.5.1	11.2.1		
	11.2.1.1		
	11.2.2		
	11.2.2.1		
22.5.6	---	‡	**Heading: Vc for nonprestressed members with axial compression**
22.5.6.1	11.2.1		
	11.2.1.2		
	11.2.2		
	11.2.2.2		
22.5.7	---	‡	**Heading: Vc for nonprestressed members with significant axial tension**
22.5.7.1	11.2.1.3		
	11.2.2.3		
22.5.8	---	‡	**Heading: Vc for prestressed members**
22.5.8.1	---	‡	Pointer to 22.5.9
22.5.8.2	11.3.2		
22.5.8.3	11.3.3		
22.5.8.3.1	11.3.3.1		
22.5.8.3.2	11.3.3.2		
22.5.8.3.3	11.3.3.2		
22.5.8.3.4	11.3.3.2		
22.5.9	---	‡	**Heading: Vc for pretensioned members in regions of reduced prestress force**
22.5.9.1	11.3.4		
	11.3.5		
22.5.9.2	11.3.4		
22.5.9.3	11.3.4	~	Revise the effect of prestress on shear at ends of members
22.5.9.4	11.3.5		
22.5.9.5	11.3.5	~	Revise the effect of prestress on shear at ends of members

Chapter 22 - SECTIONAL STRENGTH

318-14	318-11	Note	Description
22.5.10	**---**	**‡**	**Heading: One-way shear reinforcement**
22.5.10.1	11.4.7.1		
22.5.10.2	---	‡	Pointer to 22.5.10.5
22.5.10.3	---	‡	Pointer to 22.5.10.6
22.5.10.4	11.4.1.2		
	11.4.7.8		
22.5.10.5	**---**	**‡**	**Heading: One-way shear strength provided by stirrups, ties, hoops, crossties, and spirals**
22.5.10.5.1	11.4.1.1		
22.5.10.5.2	11.4.1.2		
22.5.10.5.3	11.4.7.2		
22.5.10.5.4	11.4.7.4		
22.5.10.5.5	11.4.7.3		
22.5.10.5.6	11.4.7.3		
22.5.10.6	**---**	**‡**	**Heading: One-way shear strength provided by bent-up longitudinal bars**
22.5.10.6.1	11.4.1.2		
	11.4.7.7		
22.5.10.6.2	11.4.7.5		
22.5.10.6.3	11.4.7.6		
22.6	**---**	**‡**	**Heading: Two-way shear strength**
22.6.1	**---**	**‡**	**Heading: General**
22.6.1.1	11.11.2		Pointer 22.6.1-22.6.8
	11.11.4		Pointer 22.6.9
22.6.1.2	11.11.7.2		
22.6.1.3	11.11.7.2		
22.6.1.4	---	‡	Pointer to 22.6.4
22.6.1.5	---	‡	Pointer to 22.6.5 and 22.6.6.1
22.6.1.6	---	‡	Pointer to 19.2.4
22.6.1.7	---	‡	Pointer to 22.6.7
22.6.1.8	---	‡	Pointer to 22.6.8
22.6.2	**---**	**‡**	**Heading: Effective depth**
22.6.2.1	New	~	Clarify effective depth for two-way shear
22.6.2.2	11.3.1		
	11.4.3		
22.6.3	**---**	**‡**	**Heading: Limiting material strengths**
22.6.3.1	11.1.2		
22.6.3.2	---	‡	Pointer to 20.2.2.4
22.6.4	**---**	**‡**	**Heading: Critical sections for two-way members**
22.6.4.1	11.11.1.2		
22.6.4.1.1	11.11.1.3		
22.6.4.1.2	15.3		
22.6.4.2	11.11.5.4		

Chapter 22 - SECTIONAL STRENGTH

318-14	318-11	Note	Description
22.6.4.3	11.11.6		
	11.11.6.1		
22.6.5	**---**	‡	**Heading: Two-way shear strength provided by concrete**
22.6.5.1	---	‡	Introduction to list
22.6.5.2	11.11.2.1		
22.6.5.3	11.11.2.1		
	11.11.2.2		
22.6.5.4	11.11.2.2		
22.6.5.5	11.11.2.2		
22.6.6	**---**	‡	**Heading: Maximum shear for two-way members with shear reinforcement**
22.6.6.1	11.11.3.1		
	11.11.5.1		
	11.11.5.4		
	11.11.7.2		
22.6.6.2	11.11.3.2		
	11.11.5.1		
22.6.7	**---**	‡	**Heading: Two-way shear strength provided by single- or multiple-leg stirrups**
22.6.7.1	11.11.3		
22.6.7.2	11.4.7.2		
	11.11.3.1		
22.6.8	**---**	‡	**Heading: Two-way shear strength provided by headed shear stud reinforcement**
22.6.8.1	11.11.5		
22.6.8.2	11.4.7.2		
	11.11.5.1		
22.6.8.3	11.11.5.1		
22.6.9	**---**	‡	**Heading: Design provisions for two-way members with shearheads**
22.6.9.1	11.11.4.1		
22.6.9.2	11.11.4.2		
22.6.9.3	11.11.4.3		
22.6.9.4	11.11.4.4		
22.6.9.5	11.11.4.5		
22.6.9.6	11.11.4.6		
22.6.9.7	11.11.4.9		
22.6.9.8	11.11.4.7		
22.6.9.9	11.11.6.2		
22.6.9.10	11.11.4.8		
22.6.9.11	11.11.4.10		
22.6.9.12	11.11.7.3		
22.7	**---**	‡	**Heading: Torsion**
22.7.1	**---**	‡	**Heading: General**

Chapter 22 - SECTIONAL STRENGTH

318-14	318-11	Note	Description
22.7.1.1	11.5.1		
22.7.1.2	---	‡	Pointer to 22.7.6
22.7.1.3	---	‡	Pointer to 19.2.4
22.7.2	**---**	**‡**	**Heading: Limiting material strengths**
22.7.2.1	11.1.2		
22.7.2.2	---	‡	Pointer to 20.2.2.4
22.7.3	**---**	**‡**	**Heading: Factored design torsion**
22.7.3.1	11.5.2.1		
	11.5.3.5		
22.7.3.2	11.5.2.2		
22.7.3.3	11.5.2.2		
22.7.4	**---**	**‡**	**Heading: Threshold torsion**
22.7.4.1	11.5.1		
22.7.5	**---**	**‡**	**Heading: Cracking torsion**
22.7.5.1	11.5.2.2		
22.7.6	**---**	**‡**	**Heading: Torsional strength**
22.7.6.1	11.5.3.6		
	11.5.3.7		
22.7.6.1.1	11.5.3.6		
22.7.6.1.2	11.5.3.6		
22.7.7	**---**	**‡**	**Heading: Cross-sectional limits**
22.7.7.1	11.5.3.1		
22.7.7.1.1	11.4.3		
	11.5.3.1		
22.7.7.1.2	11.5.3.2		
22.7.7.2	11.5.3.3		
22.8	**---**	**‡**	**Heading: Bearing**
22.8.1	**---**	**‡**	**Heading: General**
22.8.1.1	---	‡	Scope of section
22.8.1.2	9.3.2.4		
	10.14.2		
22.8.2	**---**	**‡**	**Heading: Required strength**
22.8.2.1	---	‡	Pointer to Ch. 5 and Ch. 6
22.8.3	**---**	**‡**	**Heading: Design strength**
22.8.3.1	New	~	Clarified that design strength shall exceed required strength
22.8.3.2	10.14.1		
22.9	**---**	**‡**	**Heading: Shear friction**
22.9.1	**---**	**‡**	**Heading: General**
22.9.1.1	11.6.1		
22.9.1.2	11.6.3		
22.9.1.3	---	‡	Pointer to 20.2.2.4
22.9.1.4	---	‡	Pointer to Ch. 26
22.9.2	**---**	**‡**	**Heading: Required strength**
22.9.2.1	---	‡	Pointer to Ch. 5 and Ch. 6

Chapter 22 - SECTIONAL STRENGTH

318-14	318-11	Note	Description
22.9.3	---	‡	**Heading: Design strength**
22.9.3.1	11.6.2		
22.9.4	---	‡	**Heading: Nominal shear strength**
22.9.4.1	11.6.5		
22.9.4.2	11.6.4.1		
	11.6.4.3		
	11.6.9		
22.9.4.3	11.6.4.2		
22.9.4.4	11.6.5		
22.9.4.5	11.6.7		
22.9.4.6	11.6.7		
22.9.5	---	‡	**Heading: Details for shear-friction reinforcement**
22.9.5.1	11.6.8		

Chapter 21 - STRENGTH REDUCTION FACTORS

318-14	318-11	Note	Description
21.1	---	‡	**Heading: Scope**
21.1.1	---	‡	Scope of chapter
21.2	---	‡	**Heading: Strength reduction factors for structural concrete members and connections**
21.2.1	9.3.1		
	9.3.2.3		
	9.3.2.4		
	9.3.2.5		
	9.3.2.6		
	9.3.5		
	11.8.3.1		
21.2.2	9.3.2.1		
	9.3.2.2		
	10.3.2		
	10.3.3		
	10.3.4		
	18.8.1		
21.2.2.1	10.3.3		
21.2.2.2	10.3.3		
21.2.3	9.3.2.7		
21.2.4	9.3.4		
21.2.4.1	9.3.4		
21.2.4.2	9.3.4		
21.2.4.3	9.3.4		

Chapter 23 - STRUT-AND-TIE MODELS

318-14	318-11	Note	Description
23.1	**---**	**‡**	**Heading: Scope**
23.1.1	---	‡	Scope of chapter
23.1.2	A.2.1		
23.2	**---**	**‡**	**Heading: General**
23.2.1	A.2.1		
23.2.2	A.2.1		
	A.2.3		
23.2.3	A.2.1		
23.2.4	A.2.2		
23.2.5	A.2.4		
23.2.6	A.2.4		
23.2.7	A.2.5		
23.2.8	11.7.2		
23.2.9	11.8.1		
23.3	**---**	**‡**	**Heading: Design strength**
23.3.1	A.2.6		
23.3.2	---	‡	Pointer to 21.2
23.4	**---**	**‡**	**Heading: Strength of struts**
23.4.1	A.3.1		
	A.3.5		
23.4.2	A.3.1		
23.4.3	A.3.2		
	A.3.2.1		
	A.3.2.2		
	A.3.2.3		
	A.3.2.4		
23.4.4	A.3.4		
23.5	**---**	**‡**	**Heading: Reinforcement crossing bottle-shaped struts**
23.5.1	A.3.3		
23.5.2	A.4.3.4		
23.5.3	A.3.3.1		
23.5.3.1	A.3.3.2		
23.6	**---**	**‡**	**Heading: Strut reinforcement detailing**
23.6.1	A.3.5		
23.6.2	A.3.5		
23.6.3	A.3.5		
23.6.3.1	7.10.5.2		
23.6.3.2	7.10.5.5		
23.6.3.3	7.10.5.3		
23.6.4	A.3.5		
23.7	**---**	**‡**	**Heading: Strength of ties**
23.7.1	A.4.1		
23.7.2	A.4.1		
23.7.3	A.4.1		

Chapter 23 - STRUT-AND-TIE MODELS

318-14	318-11	Note	Description
23.8	**---**	**‡**	**Heading: Tie reinforcement detailing**
23.8.1	A.4.2		
23.8.2	A.4.3		
23.8.3	---	‡	Introduction to list
23.8.3(a)	A.4.3.1		
23.8.3(b)	A.4.3.2		
23.8.3(b)	A.4.3.3		
23.9	**---**	**‡**	**Heading: Strength of nodal zone**
23.9.1	A.5.1		
23.9.2	A.5.2		
	A.5.2.1		
	A.5.2.2		
	A.5.2.3		
23.9.3	A.5.2		
23.9.4	A.5.1		
23.9.5	A.5.3		

Chapter 24 - SERVICEABILITY REQUIREMENTS

318-14	318-11	Note	Description
24.1	---	‡	**Heading: Scope**
24.1.1	---	‡	Scope of chapter
24.2	---	‡	**Heading: Deflections due to service-level gravity loads**
24.2.1	9.5.1		
24.2.2	9.5.2.6		
	9.5.4.4		
	9.5.5.3		
	18.3.5		
24.2.3	---	‡	**Heading: Calculation of immediate deflections**
24.2.3.1	9.5.2.2		
24.2.3.2	8.7.2		
24.2.3.3	9.5.3.4		
24.2.3.4	---	‡	Pointer to 19.2.2
24.2.3.5	9.5.2.3		
24.2.3.6	9.5.2.4		
24.2.3.7	9.5.2.4		
24.2.3.8	9.5.4.1		
	18.3.5		
24.2.3.9	9.5.4.2		
	18.3.5		
24.2.4	---	‡	**Heading: Calculation of time-dependent deflections**
24.2.4.1	---	‡	**Heading: Nonprestressed members**
24.2.4.1.1	9.5.2.5		
	9.5.3.4		
24.2.4.1.2	9.5.2.5		
24.2.4.1.3	9.5.2.5		
24.2.4.2	---	‡	**Heading: Prestressed members**
24.2.4.2.1	9.5.4.3		
	18.3.5		
24.2.5	---	‡	**Heading: Deflections of composite concrete construction**
24.2.5	17.2.7		
24.2.5.1	9.5.5.1		
24.2.5.2	9.5.5.2		
24.2.5.3	9.5.5.1		
24.3	---	‡	**Heading: Distribution of flexural reinforcement in one-way slabs and beams**
24.3.1	10.6.3		
	18.4.4		
	18.8.3		
	18.9.2.1		
24.3.2	10.6.4		
	18.4.4.1		
	18.4.4.2		
24.3.2.1	10.6.4		

Chapter 24 - SERVICEABILITY REQUIREMENTS

318-14	318-11	Note	Description
24.3.2.2	18.4.4.2		
	18.4.4.3		
24.3.3	10.6.4		
	18.4.4		
24.3.4	10.6.6		
24.3.5	10.6.5		
	18.4.4		
24.4	---	‡	**Heading: Shrinkage and temperature reinforcement**
24.4.1	7.12.1		
	7.12.1.1		
24.4.2	7.12.1.2		
24.4.3	---	‡	**Heading: Nonprestressed reinforcement**
24.4.3.1	7.12.2		
24.4.3.2	7.12.2.1		
24.4.3.3	7.12.2.2		
24.4.3.4	7.12.2.3		
24.4.3.5	16.4.1		
24.4.4	---	‡	**Heading: Prestressed reinforcement**
24.4.4.1	7.12.3		
	7.12.3.1		
24.5	---	‡	**Heading: Permissible stresses in prestressed concrete flexural members**
24.5.1	---	‡	**Heading: General**
24.5.1.1	18.4.3		
24.5.1.2	18.3.2		
24.5.1.2(a)	18.3.2.1		
24.5.1.2(b)	18.3.2.2		
24.5.2	---	‡	**Heading: Classification of prestressed flexural members**
24.5.2.1	18.3.3		
24.5.2.2	18.3.4		
24.5.2.3	18.3.4		
24.5.3	---	‡	**Heading: Permissible concrete stresses at transfer of prestress**
24.5.3.1	18.4.1		
24.5.3.2	18.4.1		
24.5.3.2.1	18.4.1		
24.5.4	---	‡	**Heading: Permissible concrete compressive stresses at service loads**
24.5.4.1	18.4.2		

Chapter 25 - REINFORCEMENT DETAILS

318-14	318-11	Note	Description
25.1	**---**	**‡**	**Heading: Scope**
25.1.1	---	‡	Scope to chapter
25.1.2	---	‡	Scope to chapter
25.2	**---**	**‡**	**Heading: Minimum spacing of reinforcement**
25.2.1	3.3.2		
	7.6.1		
25.2.2	7.6.2		
25.2.3	3.3.2		
	7.6.3		
25.2.4	3.3.2		
	7.6.7.1		
25.2.5	3.3.2		
	7.6.7.1		
25.2.6	7.6.7.1		
25.3	**---**	**‡**	**Heading: Standard hook, seismic hooks, and crossties and minimum inside bend diameters**
25.3.1	7.1		
	7.1.1		
	7.1.2		
	7.2.1		
25.3.2	7.1.3	~	Revised so that standard hooks meet seismic hook requirements
	7.2.2		
25.3.3	7.2.3		
25.3.4	2.2 - Seismic hook		
	7.1.4		
25.3.5	2.2 - Crosstie		
	21.5.3.6		
25.4	**---**	**‡**	**Heading: Development of reinforcement**
25.4.1	**---**	**‡**	**Heading: General**
25.4.1.1	12.1.1		
	15.6.2		
25.4.1.2	12.1.1		
	12.5.5		
	12.6.3		
25.4.1.3	9.3.3		
25.4.1.4	12.1.2		
25.4.2	**---**	**‡**	**Heading: Development of deformed bars and deformed wire in tension**
25.4.2.1	12.2.1		
25.4.2.2	12.2.2		
25.4.2.3	12.2.3		
25.4.2.4	12.2.4		

Chapter 25 - REINFORCEMENT DETAILS

318-14	318-11	Note	Description
25.4.3	---	‡	**Heading: Development of standard hooks in tension**
25.4.3.1	12.5.1		
	12.5.2		
25.4.3.2	12.5.2		
	12.5.3		
25.4.3.3	12.5.4		
25.4.4	---	‡	**Heading: Development of headed deformed bars in tension**
25.4.4.1	12.6.1		
	12.6.2		
25.4.4.2	12.6.2		
25.4.4.3	12.6.2		
25.4.5	---	‡	**Heading: Development of mechanically anchored deformed bars in tension**
25.4.5.1	12.6.4		
25.4.6	---	‡	**Heading: Development of welded deformed wire reinforcement in tension**
25.4.6.1	12.7.1		
25.4.6.2	12.7.1		
25.4.6.3	12.7.2		
25.4.6.4	12.7.3		
25.4.6.5	12.7.4		
25.4.6.6	3.5.3.10		
25.4.7	---	‡	**Heading: Development of welded plain wire reinforcement in tension**
25.4.7.1	12.8		
25.4.7.2	12.8		
25.4.8	---	‡	**Heading: Development of welded plain wire reinforcement in tension**
25.4.8.1	12.9.1		
	12.9.3		
25.4.8.2	12.9.1		
25.4.8.3	12.9.1.1		
	12.9.2		
25.4.9	---	‡	**Heading: Development of deformed bars and deformed wire in compression**
25.4.9.1	12.3.1		
25.4.9.2	12.3.2		
25.4.9.3	12.3.2		
	12.3.3		
25.4.10	---	‡	**Heading: Reduction of development length of excess reinforcement**
25.4.10.1	12.2.5		
	12.3.3		
	12.5.3		

Chapter 25 - REINFORCEMENT DETAILS

318-14	318-11	Note	Description
	12.7.1		
	12.8		
25.4.10.2	7.12.2.3		
	7.13.2.1		
	7.13.2.2		
	7.13.2.5		
	11.5.4.3		
	11.6.8		
	11.8.6		
	12.11.2		
	12.11.4		
	13.3.4		
	14.3.7		
	18.13.5.5		
	21.2.2		
	21.3.6.6		
	21.3.6.7		
	21.7.5.1		
	21.7.5.2		
	21.8.3		
	21.9.2.3		
	21.9.6.4		
	21.9.7.4		
	21.11.7.3		
	21.11.11.2		
	21.12.2.1		
	21.12.2.3		
	21.12.3.1		
25.5	---	‡	**Heading: Splices**
25.5.1	---	‡	**Heading: General**
25.5.1.1	12.14.2.1		
25.5.1.2	7.6.4		
25.5.1.3	12.14.2.3		
25.5.1.4	12.15.1		
	12.18.1		
	12.19.1.1		
	12.19.1.2		
25.5.1.5	---	‡	Pointer to 25.6.1.7
25.5.2	---	‡	**Heading: Lap splice lengths of deformed bars and deformed wire in tension**
25.5.2.1	12.15.1		
	12.15.2		
25.5.2.2	12.15.3		

Chapter 25 - REINFORCEMENT DETAILS

318-14	318-11	Note	Description
25.5.3	---	‡	**Heading: Lap splice lengths of welded deformed wire reinforcement in tension**
25.5.3.1	12.18.1		
	12.18.3		
25.5.3.1.1	12.18.2		
25.5.3.1.2	12.18.3		
25.5.3.1.3	3.5.3.10		
25.5.4	---	‡	**Heading: Lap splice lengths of welded plain wire reinforcement in tension**
25.5.4.1	12.19.1.1		
25.5.4.2	12.19.1.2		
25.5.5	---	‡	**Heading: Lap splice lengths of deformed bars in compression**
25.5.5.1	12.16.1		
25.5.5.2	12.14.2.1		
	12.16.2		
25.5.5.3	12.16.2		
25.5.5.4	12.16.2		
	15.8.2.3		
25.5.6	---	‡	**Heading: End bearing splices of deformed bars in compression**
25.5.6.1	12.16.4.1		
25.5.6.2	12.16.4.3		
25.5.6.3	12.16.4.2		
25.5.7	---	‡	**Heading: Mechanical and welded splices of deformed bars in tension or compression**
25.5.7.1	12.14.3.1		
	12.14.3.2		
	12.14.3.4		
	12.15.4		
	12.16.3		
	12.17.3		
25.5.7.2	---	‡	Pointer to 26.6.4
25.5.7.3	12.15.6		
25.5.7.4	12.15.6		
25.6	---	‡	**Heading: Bundled reinforcement**
25.6.1	---	‡	**Heading: Nonprestressed reinforcement**
25.6.1.1	7.6.6.1		
25.6.1.2	7.6.6.2		
	7.10.5.1		
25.6.1.3	7.6.6.3		
25.6.1.4	7.6.6.4		
25.6.1.5	12.4.1		
25.6.1.6	7.6.6.5		
	12.4.2		

Chapter 25 - REINFORCEMENT DETAILS

318-14	318-11	Note	Description
25.6.1.7	12.14.2.2		
25.6.2	---	‡	**Heading: Post-tensioning ducts**
25.6.2.1	7.6.7.2		
25.7	---	‡	**Heading: Transverse reinforcement**
25.7.1	---	‡	**Heading: Stirrups**
25.7.1.1	11.4.4		
	12.13.1		
25.7.1.2	11.5.6.2		
	12.13.3		
25.7.1.3	12.13.2.1		
	12.13.2.2		
	12.13.2.5		
25.7.1.4	12.13.2.3		
25.7.1.5	12.13.2.4		
25.7.1.6	7.13.2.3		
	11.5.4.1		
	11.5.4.2		
25.7.1.6.1	7.11.2		
	7.11.3		
25.7.1.7	7.11.2		
	7.11.3		
	12.13.5		
25.7.2	---	‡	**Heading: Ties**
25.7.2.1	3.3.2		
	7.10.5.2		
	18.11.2.2(b)		
25.7.2.2	7.10.5.1		
	18.11.2.2(b)		
25.7.2.2.1	7.10.5.1		
	18.11.2.2(b)		
25.7.2.3	7.10.5.3		
25.7.2.3.1	7.11.3		
25.7.2.4	7.10.5.4		
25.7.2.4.1	7.10.5.4		
25.7.2.5	11.5.4.1		
	11.5.4.2		
25.7.3	---	‡	**Heading: Spirals**
25.7.3.1	3.3.2		
	7.10.4.1		
	7.10.4.3		
25.7.3.2	7.10.4.2		
25.7.3.3	7.10.4		
	10.9.3		
25.7.3.4	7.10.4.4		

Chapter 25 - REINFORCEMENT DETAILS

318-14	318-11	Note	Description
25.7.3.5	7.10.4.5	~	Add fyt limit for lap splices
25.7.3.6	7.10.4.5		
25.7.4	**---**	**‡**	**Heading: Hoops**
25.7.4.1	2.2 - Hoop		
25.7.4.2	21.5.3.6		
25.8	**---**	**‡**	**Heading: Post-tensioning anchorages and couplers**
25.8.1	18.21.1		
25.8.2	18.21.1		
25.8.3	18.21.3		
25.8.4	18.21.2		
25.9	**---**	**‡**	**Heading: Anchorage zones for post-tensioned tendons**
25.9.1	**---**	**‡**	**Heading: General**
25.9.1.1	18.13.1		
25.9.1.2	---	‡	Pointer to 25.9.3
25.9.1.3	---	‡	Pointer to 25.9.4
25.9.1.4	18.13.4.3		
25.9.1.5	18.13.5.3		
25.9.2	**---**	**‡**	**Heading: Required strength**
25.9.2.1	9.2.7		
	18.5.1		
	18.13.2.1		
	18.13.3.1		
25.9.3	**---**	**‡**	**Heading: Local zone**
25.9.3.1	18.13.2.2		
	18.13.2.3		
25.9.3.1(a)	18.14.1		
25.9.3.1(b)	18.15.1	~	Update references in AASHTO
25.9.3.1(c)	18.15.1	~	Update references in AASHTO
25.9.3.2	18.15.2		
25.9.3.2.1	18.15.2		
25.9.4	**---**	**‡**	**Heading: General zone**
25.9.4	18.13.3.3		
	18.14.3		
	18.15.3		
25.9.4.1	18.13.1		
25.9.4.2	18.13.1		
25.9.4.3	**---**	**‡**	**Heading: Analysis of general zones**
25.9.4.3.1	18.13.5.1	~	Update references in AASHTO
25.9.4.3.2	18.13.5.2		
25.9.4.3.3	18.13.5.4		
25.9.4.4	**---**	**‡**	**Heading: Reinforcement limits**
25.9.4.4.1	18.13.5.8		
25.9.4.4.2	18.13.3.2		
25.9.4.4.3	18.13.5.5		

Chapter 25 - REINFORCEMENT DETAILS

318-14	318-11	Note	Description
25.9.4.4.4	18.13.5.6		
25.9.4.4.5	18.13.5.7		
25.9.4.4.6	18.14.2.1		
	18.14.2.4		
25.9.4.4.6(a)	18.14.2.2		
25.9.4.4.6(b)	18.14.2.3		
25.9.4.5	---	‡	**Heading: Limiting stresses in general zones**
25.9.4.5.1	18.13.4.1		
25.9.4.5.2	18.13.4.2		
25.9.4.5.3	18.13.4.2		
25.9.4.5.4	18.13.4.3		
25.9.4.5.5	18.13.4.3		
25.9.5	---	‡	**Heading: Reinforcement detailing**
25.9.5.1	18.13.6		

Chapter 26 - CONSTRUCTION DOCUMENTS AND INSPECTION

318-14	318-11	Note	Description
26.1	---	‡	**Heading: Scope**
26.1.1	---	‡	Scope of chapter
26.1.1(a)	New	~	Defines design information
26.1.1(b)	New	~	Defines compliance requirments
26.1.1(c)	New	~	Defines inspection requirements
26.2	---	‡	**Heading: Design criteria**
26.2.1	---	‡	**Heading: Design information**
26.2.1(a)	1.2.1(a)		
26.2.1(b)	1.2.1(b)		
26.2.1(c)	New	~	Design work delegated to the contractor
26.3	---	‡	**Heading: Member information**
26.3.1	---	‡	**Heading: Design information**
26.3.1(a)	1.2.1(e)		
26.4	---	‡	**Heading: Concrete materials and mixture requirements**
26.4.1	---	‡	**Heading: Concrete materials**
26.4.1.1	---	‡	**Heading: Cementitious materials**
26.4.1.1.1	---	‡	**Heading: Compliance requirements**
26.4.1.1.1(a)	3.2.1		
26.4.1.1.1(b)	4.1.1		
26.4.1.2	---	‡	**Heading: Aggregates**
26.4.1.2.1	---	‡	**Heading: Compliance requirements**
26.4.1.2.1(a)	3.3.1		
26.4.1.2.1(b)	3.3.1		
26.4.1.3	---	‡	**Heading: Water**
26.4.1.3.1	---	‡	**Heading: Compliance requirements**
26.4.1.3.1(a)	3.4.1		
26.4.1.3.1(b)	3.4.2		
26.4.1.4	---	‡	**Heading: Admixtures**
26.4.1.4.1	---	‡	**Heading: Compliance requirements**
26.4.1.4.1(a)	3.6.1		
	3.6.2		
	New	~	Add corrosion inhibitor admixtures
26.4.1.4.1(b)	3.6.3		
26.4.1.4.1(c)	3.6.4		
26.4.1.4.1(d)	3.6.5		
26.4.1.5	---	‡	**Heading: Steel fiber reinforcement**
26.4.1.5.1	---	‡	**Heading: Compliance requirements**
26.4.1.5.1(a)	3.5.1		
	3.5.8		
26.4.2	---	‡	**Heading: Concrete mixture requirements**
26.4.2.1	---	‡	**Heading: Design information**
26.4.2.1(a)	---	‡	Introduction to list
26.4.2.1(a)(1)	5.1.3		
26.4.2.1(a)(2)	5.1.3		

Chapter 26 - CONSTRUCTION DOCUMENTS AND INSPECTION

318-14	318-11	Note	Description
26.4.2.1(a)(3)	4.1.1		
	4.3.1		
26.4.2.1(a)(4)	3.3.2		
26.4.2.1(a)(5)	4.4.1		
26.4.2.1(a)(6)	4.3.1		
26.4.2.1(a)(7)	4.3.1		
26.4.2.1(a)(8)	4.3.1		
26.4.2.1(a)(9)	2.2 - Lightweight concrete		
26.4.2.1(a)(10)	8.6.1		
26.4.2.1(a)(11)	5.6.6.2		
26.4.2.1(b)	4.2.1		
26.4.2.1(c)	1.2.1(c)		
26.4.2.2	---	‡	**Heading: Compliance requirements**
26.4.2.2(a)	1.2.1(c)		
	1.2.1(l)		
	16.2.4		
	16.2.4(b)		
	18.13.4.3		
26.4.2.2(b)	4.4.2		
26.4.2.2(c)	4.5.1		
26.4.2.2(d)	5.1.6		
26.4.2.2(d)(1)	5.1.6		
26.4.2.2(d)(2)	5.6.6.2(a)		
26.4.3	---	‡	**Heading: Proportioning of concrete mixtures**
26.4.3.1	---	‡	**Heading: Compliance requirements**
26.4.3.1(a)	5.2.1		
26.4.3.1(b)	5.3	~	Remove statistical mix proporting and reference ACI 301 Clarify the length of time to keep records
26.4.3.1(c)	3.2.2		
26.4.3.1(d)	5.2.2		
26.4.4	---	‡	**Heading: Documentation of concrete mixture characteristics**
26.4.4.1	---	‡	**Heading: Compliance requirements**
26.4.4.1(a)	5.3.3	~	Remove statistical mix proporting and reference ACI 301
26.4.4.1(b)	5.4.1	~	Remove statistical mix proporting and reference ACI 301
26.4.4.1(c)	5.5	~	Remove statistical mix proporting and reference ACI 301
26.5	---	‡	**Heading: Concrete production and construction**
26.5.1	---	‡	**Heading: Concrete production**
26.5.1.1	---	‡	**Heading: Compliance requirements**
26.5.1.1(a)	3.7.1		
26.5.1.1(b)	3.7.2		
26.5.1.1(c)	5.7.1(a)	~	Clarified that equipment shall be maintained by ASTM C94 or C685
26.5.1.1(d)	5.8.2		

Chapter 26 - CONSTRUCTION DOCUMENTS AND INSPECTION

318-14	318-11	Note	Description
26.5.2	---	‡	**Heading: Placement and consolidation**
26.5.2.1	---	‡	**Heading: Compliance requirements**
26.5.2.1(a)	5.7.1(b)		
26.5.2.1(b)	5.7.1(f)		
26.5.2.1(c)	5.7.1(d)		
26.5.2.1(d)	5.9.2		
26.5.2.1(e)	6.3.2		
26.5.2.1(f)	---	‡	Introduction to list
26.5.2.1(f)(1)	5.9.2		
26.5.2.1(f)(2)	5.10.2		
26.5.2.1(f)(3)	5.9.1		
26.5.2.1(f)(4)	5.9.2		
26.5.2.1(f)(5)	5.10.1		
26.5.2.1(g)	5.10.3		
26.5.2.1(h)	5.10.4	~	Added reference to ASTM C94 for retempering
26.5.2.1(i)	5.10.5		
26.5.2.1(j)	5.10.8		
26.5.2.1(k)	5.10.6		
26.5.3	---	‡	**Heading: Curing concrete**
26.5.3.1	---	‡	**Heading: Design information**
26.5.3.1(a)	5.11.4		
26.5.3.2	---	‡	**Heading: Compliance requirements**
26.5.3.2(a)	5.11.1		
26.5.3.2(b)	5.11.2		
26.5.3.2(c)	5.11.3.1		
26.5.3.2(c)(1)	5.11.3.2		
26.5.3.2(c)(2)	5.11.3.3		
26.5.3.2(d)	5.6.4.1		
	5.11.4		
26.5.3.2(d)(1)	5.6.4.3		
26.5.3.2(d)(2)	5.6.4.2		
26.5.3.2(e)	5.6.4.4		
26.5.3.2(e)(1)	5.6.4.4		
26.5.3.2(e)(2)	5.6.4.4		
26.5.4	---	‡	**Heading: Concreting in cold weather**
26.5.4.1	---	‡	**Heading: Design information**
26.5.4.1(a)	New	~	Identify temperature limit
26.5.4.2	---	‡	**Heading: Compliance requirements**
26.5.4.2(a)	5.12.1		
26.5.4.2(b)	5.12.2		
26.5.4.2(c)	5.12.3		
26.5.4.2(c)	New	~	Specify temperature limits
26.5.5	---	‡	**Heading: Concreting in hot weather**
26.5.5.1	---	‡	**Heading: Design information**

Chapter 26 - CONSTRUCTION DOCUMENTS AND INSPECTION

318-14	318-11	Note	Description
26.5.5.1(a)	New	~	Identify temperature limit
26.5.5.2	---	‡	**Heading: Compliance requirements**
26.5.5.2(a)	5.13		
26.5.5.2(b)	5.13		
26.5.6	---	‡	**Heading: Construction, contraction, and isolation joints**
26.5.6.1	---	‡	**Heading: Design information**
26.5.6.1(a)	1.2.1(k)		
26.5.6.1(b)	6.4.3		
	11.6.9		
	21.9.9		
26.5.6.1(c)	11.6.9		
	21.9.9		
26.5.6.1(d)	11.6.10		
26.5.6.1(e)	21.11.4		
26.5.6.2	---	‡	**Heading: Compliance requirements**
26.5.6.2(a)	New	~	Clarified what happens if LDP does not provide a joint plan
26.5.6.2(b)	6.4.4		
26.5.6.2(c)	6.4.5		
26.5.6.2(d)	5.7.1(g)		
	6.4.1		
	11.6.9		
26.5.6.2(e)	11.6.9		
	21.9.9		
26.5.6.2(f)	6.4.2		
26.5.7	---	‡	**Heading: Construction of concrete members**
26.5.7.1	---	‡	**Heading: Design information**
26.5.7.1(a)	1.2.1(g)		
26.5.7.1(b)	1.2.1(n)		
	21.12.3.4		
26.5.7.1(c)	15.9.2		
26.5.7.1(d)	10.12.1		
26.5.7.1(e)	3.5.1		
26.5.7.2	---	‡	**Heading: Compliance requirements**
26.5.7.2(a)	6.4.6		
26.5.7.2(b)	6.4.7		
26.5.7.2(c)	10.12.1		
26.5.7.2(d)	21.12.3.4		
26.6	---	‡	**Heading: Reinforcement materials and construction requirements**
26.6.1	---	‡	**Heading: General**
26.6.1.1	---	‡	**Heading: Design information**
26.6.1.1(a)	1.2.1(d)		
26.6.1.1(b)	1.2.1(e)		
	1.2.1(i)		

Chapter 26 - CONSTRUCTION DOCUMENTS AND INSPECTION

318-14	318-11	Note	Description
26.6.1.1(c)	1.2.1(e)		
26.6.1.1(d)	1.2.1(i)		
	12.14.1		
26.6.1.1(e)	1.2.1(j)		
	12.14.1		
26.6.1.1(f)	12.14.1		
26.6.1.1(g)	1.2.1(j)		
	3.5.2		
	12.14.1		
26.6.1.1(h)	3.5.3.9		
26.6.1.1(i)	7.7.7		
26.6.1.2	---	‡	**Heading: Compliance requirements**
26.6.1.2(a)	3.5.3.2		
	3.5.3.5		
	3.5.3.6		
	3.5.3.7		
	3.5.3.10		
	3.5.3.11		
	3.5.4.2		
26.6.1.2(b)	7.4.2		
26.6.1.2(c)	7.4.3		
26.6.1.2(d)	5.7.1(e)		
	7.4.1		
26.6.2	---	‡	**Heading: Placement**
26.6.2.1	---	‡	**Heading: Design information**
26.6.2.1(a)	7.5.2		
	7.5.2.1		
26.6.2.1(b)	7.5.2		
	7.5.2.2		
26.6.2.2	---	‡	**Heading: Compliance requirements**
26.6.2.2(a)	7.5.1		
	7.10.4.9		
26.6.2.2(b)	7.10.4.1		
26.6.2.2(c)	12.14.1		
26.6.2.2(d)	12.16.4.1		
26.6.2.2(e)	12.16.4.2		
26.6.3	---	‡	**Heading: Bending**
26.6.3.1	---	‡	**Heading: Compliance requirements**
26.6.3.1(a)	7.3.1		
26.6.3.1(b)	7.3.2		
26.6.3.1(c)	7.8.1.4		
26.6.4	---	‡	**Heading: Welding**
26.6.4.1	---	‡	**Heading: Compliance requirements**
26.6.4.1(a)	3.5.2		

Chapter 26 - CONSTRUCTION DOCUMENTS AND INSPECTION

318-14	318-11	Note	Description
~~26.6.4.1(a)~~	12.14.3.3		
26.6.4.1(b)	7.5.4		
26.7	---	‡	**Heading: Anchoring to Concrete**
26.7.1	---	‡	**Heading: Design information**
26.7.1(a)	D.2.3		
26.7.1(b)	1.2.1(f)		
26.7.1(c)	D.8.7		
26.7.1(d)	---	‡	Pointer to 26.13
26.7.1(e)	1.2.1(f)		
26.7.1(f)	D.9.2.1		
26.7.1(g)	1.2.1(f)		
	D.9.1		
26.7.1(h)	D.9.2.4		
26.7.1(i)	D.9.2.2		
	D.9.2.3		
26.7.1(j)	D.9.2.1		
26.7.1(k)	7.7.7		
26.7.2	---	‡	**Heading: Compliance requirements**
26.7.2(a)	D.9.1		
26.8	---	‡	**Heading: Embedments**
26.8.1	---	‡	**Heading: Design information**
26.8.1(a)	6.3.1		
26.8.1(b)	6.3.11		
26.8.1(c)	6.3.10		
26.8.1(d)	7.7.7		
26.8.2	---	‡	**Heading: Compliance requirements**
26.8.2(a)	6.3.1		
26.8.2(b)	6.3.2		
26.8.2(c)	6.3.7		
26.8.2(d)	6.3.8		
26.8.2(e)	6.3.9		
26.8.2(f)	6.3.12		
26.9	---	‡	**Heading: Precast concrete**
26.9.1	---	‡	**Heading: Design information**
26.9.1(a)	16.2.3		
26.9.1(b)	16.2.4		
	16.2.4(a)		
26.9.2	---	‡	**Heading: Compliance requirements**
26.9.2(a)	16.8.1		
26.9.2(b)	16.8.2		
26.9.2(c)	16.2.4		
	16.2.4(a)		
26.9.2(d)	16.9.2		
	22.9.4		

Chapter 26 - CONSTRUCTION DOCUMENTS AND INSPECTION

318-14	318-11	Note	Description
26.9.2(e)	16.7.1		
26.9.2(e)(1)	16.7.1		
26.9.2(e)(2)	16.7.1.1		
26.9.2(e)(3)	16.7.1.2		
26.9.2(e)(4)	16.7.1.3		
26.10	---	‡	**Heading: Additional requirements for prestressed concrete**
26.10.1	---	‡	**Heading: Design information**
26.10.1(a)	1.2.1(h)		
	18.6.2.1		
26.10.1(b)	1.2.1(m)		
	18.13.5.3		
26.10.1(c)	1.2.1(e)		
26.10.1(d)	7.5.2		
26.10.1(e)	18.21.4		
	18.22.4		
26.10.1(f)	18.17		
26.10.1(g)	18.18		
26.10.2	---	‡	**Heading: Compliance requirements**
26.10.2(a)	New	~	Clarified what happens if LDP does not detail the PT system
26.10.2(b)	7.5.1		
26.10.2(c)	18.21.2		
26.10.2(d)	18.19		
26.10.2(e)	18.6.2.3		
	18.20.1		
26.10.2(f)	18.6.2.3		
	18.20.1		
26.10.2(g)	18.20.4		
26.10.2(h)	18.20.2		
26.10.2(i)	18.20.3		
26.10.2(j)	18.13.4.3		
26.10.2(k)	18.13.4.3		
26.10.2(k)(1)	18.13.4.3		
26.10.2(k)(2)	18.13.4.3		
26.11	---	‡	**Heading: Formwork**
26.11.1	---	‡	**Heading: Design of formwork**
26.11.1.1	---	‡	**Heading: Design information**
26.11.1.1(a)	5.7.1(c)		
	6.1		
26.11.1.1(b)	9.5.5.1		
26.11.1.1(c)	17.3		
26.11.1.2	---	‡	**Heading: Compliance requirements**
26.11.1.2(a)	6.1.5		
26.11.1.2(a)(1)	6.1.5		
26.11.1.2(a)(2)	6.1.5		

Chapter 26 - CONSTRUCTION DOCUMENTS AND INSPECTION

318-14	318-11	Note	Description
26.11.1.2(a)(3)	6.1.5		
26.11.1.2(a)(4)	6.1.4		
26.11.1.2(a)(5)	6.1.6		
26.11.1.2(b)	6.1.1		
26.11.1.2(c)	6.1.2		
26.11.1.2(d)	6.1.3		
26.11.2	---	‡	**Heading: Removal of formwork**
26.11.2.1	---	‡	**Heading: Compliance requirements**
26.11.2.1(a)	6.2.2.1		
26.11.2.1(b)	6.2.2.1(a)		
26.11.2.1(c)	6.2.2.1(b)		
26.11.2.1(d)	6.2.2.1(c)		
26.11.2.1(e)	6.2.2.1(c)		
26.11.2.1(f)	6.2.1		
26.11.2.1(g)	6.2.1		
26.11.2.1(h)	6.2.2.3		
26.11.2.1(i)	6.2.2.2		
26.12	---	‡	**Heading: Evaluation and acceptance of concrete**
26.12.1	---	‡	**Heading: General**
26.12.1.1	---	‡	**Heading: Compliance requirements**
26.12.1.1(a)	5.6.2.4		
26.12.1.1(b)	5.6.1		
26.12.1.1(c)	5.6.1		
26.12.1.1(d)	5.6.1		
26.12.1.1(e)	5.6.1		
26.12.2	---	‡	**Heading: Frequency of testing**
26.12.2.1	---	‡	**Heading: Compliance requirements**
26.12.2.1(a)	5.6.2.1		
26.12.2.1(b)	5.6.2.2		
26.12.2.1(c)	5.6.2.3		
26.12.3	---	‡	**Heading: Acceptance criteria for standard-cured specimens**
26.12.3.1	---	‡	**Heading: Compliance requirements**
26.12.3.1(a)	5.6.3.1		
	5.6.3.2		
26.12.3.1(b)	5.6.3.3		
26.12.3.1(c)	5.6.3.4		
26.12.3.1(d)	5.6.3.4		
26.12.4	---	‡	**Heading: Investigation of low strength-test results**
26.12.4.1	---	‡	**Heading: Compliance requirements**
26.12.4.1(a)	5.6.5.1		
26.12.4.1(b)	5.6.5.2		
26.12.4.1(c)	5.6.5.3		
26.12.4.1(d)	5.6.5.4		
26.12.4.1(e)	5.6.5.4		

Chapter 26 - CONSTRUCTION DOCUMENTS AND INSPECTION

318-14	318-11	Note	Description
26.12.4.1(f)	5.6.5.5		
26.12.5	**---**	**‡**	**Heading: Acceptance of steel fiber-reinforced concrete**
26.12.5.1	**---**	**‡**	**Heading: Compliance requirements**
26.12.5.1(a)	5.6.6.2		
26.12.5.1(a)(1)	5.6.6.1		
26.12.5.1(a)(2)	5.6.6.2(b)		
26.12.5.1(a)(3)	5.6.6.2(c)		
26.13	**---**	**‡**	**Heading: Inspection**
26.13.1	**---**	**‡**	**Heading: General**
26.13.1.1	1.3.1		
26.13.1.2	1.3.1		
26.13.1.3	1.3.2		
26.13.1.4	1.3.5		
26.13.2	**---**	**‡**	**Heading: Inspection reports**
26.13.2.1	1.3.4		
	3.1.3		
26.13.2.2	---	‡	Introduction to list
26.13.2.2(a)	1.3.2(h)		
26.13.2.2(b)	1.3.2(g)		
26.13.2.2(c)	1.3.2(a)		
	1.3.2(d)		
26.13.2.2(d)	1.3.3		
26.13.2.3	21.1.5.2		
26.13.3	**---**	**‡**	**Heading: Items requiring inspection**
26.13.3.1	---	‡	Introduction to lists
26.13.3.2	---	‡	Introdution to list of continuous inspections
26.13.3.2(a)	1.3.2(a)		
26.13.3.2(b)	1.3.2(f)		
26.13.3.2(c)	D.9.2.4		
26.13.3.2(d)	R21.1.1		
26.13.3.3	---	‡	Introdution to list of periodic inspections
26.13.3.3(a)	1.3.2(c)		
26.13.3.3(b)	1.3.2(d)		
26.13.3.3(c)	1.3.2(b)		
26.13.3.3(d)	1.3.2(e)		
26.13.3.3(e)	New	~	Verification of concrete strength before post-tensioning and removal of forms
26.13.3.3(f)	D.9.2		
26.13.3.3(g)	D.9.2		

Chapter 27 - STRENGTH EVALUATION OF EXISTING STRUCTURES

318-14	318-11	Note	Description
27.1	---	‡	**Heading: Scope**
27.1.1	---	‡	Scope of chapter
27.2	---	‡	**Heading: General**
27.2.1	20.1.1		
27.2.2	20.1.2		
27.2.3	20.1.3		
27.2.4	20.1.4		
27.3	---	‡	**Heading: Analytical strength evaluation**
27.3.1	---	‡	**Heading: Verification of as-built condition**
27.3.1.1	20.2.1		
27.3.1.2	20.2.2		
27.3.1.3	20.2.3		
27.3.1.4	20.2.3		
27.3.1.5	20.2.4		
27.3.2	---	‡	**Heading: Strength reduction factors**
27.3.2.1	20.2.5		
27.4	---	‡	**Heading: Strength evaluation by load test**
27.4.1	---	‡	**Heading: General**
27.4.1.1	20.7.1		
27.4.1.2	20.7.2		
27.4.1.3	20.3.3		
27.4.1.4	16.10.1		
27.4.1.4(a)	16.10.1.1		
27.4.1.4(b)	16.10.1.2		
27.4.2	---	‡	**Heading: Test load arrangement and load factors**
27.4.2.1	20.3.1		
27.4.2.2	20.3.2		
27.4.2.3	20.3.2		
27.4.2.4	20.3.2		
27.4.3	---	‡	**Heading: Test load application**
27.4.3.1	20.4.2		
27.4.3.2	20.4.3		
27.4.3.3	20.4.4		
27.4.3.4	20.4.5		
27.4.4	---	‡	**Heading: Response measurements**
27.4.4.1	20.4.1		
27.4.4.2	20.4.1		
27.4.4.3	20.4.4		
27.4.4.4	20.4.6		
27.4.5	---	‡	**Heading: Acceptance criteria**
27.4.5.1	20.5.1		
27.4.5.2	20.5.3		
27.4.5.3	20.5.4		
27.4.5.4	20.5.5		

Chapter 27 - STRENGTH EVALUATION OF EXISTING STRUCTURES

318-14	318-11	Note	Description
27.4.5.5	20.5.2		
27.4.5.6	20.5.2		
27.4.5.7	20.5.2		
27.5	**---**	**‡**	**Heading: Reduced load rating**
27.5.1	20.6		

318.2 - BUILDING CODE REQUIREMENTS FOR CONCRETE THIN SHELLS

318.2-14	318-11	Note	Description
1.1	---	‡	**Heading: Scope**
1.1.1	19.1.1		
1.1.2	19.1.2		
2.1	---	‡	**Heading: Definitions**
2.1.1	19.1.3		
2.1.2	19.1.4		
2.1.3	19.1.5		
2.1.4	19.1.6		
2.1.5	19.1.7		
2.1.6	19.1.8		
2.1.7	19.1.9		
3.1	---	‡	**Heading: Analysis and design**
3.1.1	19.2.1		
3.1.2	19.2.2		
3.1.3	19.2.3		
3.1.4	19.2.4		
3.1.5	19.2.5		
3.1.6	19.2.6		
3.1.7	19.2.7		
3.1.8	19.2.8		
3.1.9	19.2.9		
3.1.10	19.2.10		
3.1.11	19.2.11		
4.1	---	‡	**Heading: Design strength**
4.1.1	19.3.1		
4.1.2	19.3.2		
4.1.3	9.3.2.1		
4.1.4	---	‡	Pointer to Ch. 21
5.1	---	‡	**Heading: Specified concrete cover for thin shells**
5.1	7.7.1		
	7.7.2		
	7.7.3		
5.1.1	7.7.1		
5.1.2	7.7.2		
5.1.3	7.7.3		
5.1.4	---	‡	**Heading: Specified concrete cover requirements for corrosive environments**
5.1.4.1	7.7.6		
5.1.4.2	7.7.6.1		
5.1.4.3	7.7.6.1		
5.1.5	---	‡	**Heading: Concrete surface exposed to earth or water**
5.1.5.1	---	‡	Pointer to 20.6.1
6.1	---	‡	**Heading: Shell reinforcement**
6.1.1	19.4.1		

318.2 - BUILDING CODE REQUIREMENTS FOR CONCRETE THIN SHELLS

318.2-14	318-11	Note	Description
6.1.2	19.4.2		
6.1.3	19.4.3		
6.1.4	19.4.4		
6.1.5	19.4.5		
6.1.6	19.4.6		
6.1.7	19.4.7		
6.1.8	19.4.8		
6.1.9	19.4.9		
6.1.10	19.4.10		
6.1.11	19.4.11		
6.1.12	19.4.12		
7.1	---	‡	**Heading: Construction**
7.1.1	19.5.1		
7.2.2	19.5.2		

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