


# Subdivision Technical Manual



City of  
Newcastle

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## Subdivision Technical Manual

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## 1.0 Engineering specifications for development design and construction

Engineering specifications for development design and construction are based on the AUS-SPEC series of contract documents for Local Government and are designed to be used by City of Newcastle (CN) or an accredited certifier, in conjunction with CN's Standard Drawings and Specifications.

From 2007, NATSPEC has been the organisation responsible for updating, developing, and distributing the AUS-SPEC range of specifications. NATSPEC, founded in 1975, is a not-for-profit organisation that is owned by the design, build, construct and property industry through professional associations and government property groups. Its major service is the comprehensive national specification system endorsed by government and professional bodies. The 2007 version restructures AUS-SPEC into the national classification system.

CN's Engineering specifications for development design and construction comprise the following AUS-SPEC worksections:

	<b>Subgroup</b>	<b>Work Section</b>	<b>AUS-SPEC Ref.</b>	<b>Amended by NCC/Date of Amendment</b>
<b>00 Planning and Design (AUS-SPEC)</b>	002 Open space	0021 Site regrading	#1 DDSS D6	
	004 Roadways	0042 Pavement	#1 DDSS D2	
		0043 Subsurface drainage	#1 DDSS D4	
	006 Bridges	0061 Bridges and other structures	#1 DDSS D3	
	007 Public utilities	0074 Stormwater drainage (Design)	#1 DDSS D5	
<b>01 General</b>	016 Quality assurance	0160 Quality - design (AUS-SPEC)	#1 DM DQS	
		0161 Quality - construction (AUS-SPEC)	#1 DCSS CQS #1 DCSS CQC #2 QS #2 QC	
	017 General requirements	0179 General requirements (Construction)	#1 DCSS C101 #2 100, 101	
<b>02 Site, Urban and Open Spaces</b>	025 Landscape cultivation	0250 Open space - landscaping (AUS-SPEC)	#1 DCSS C273 #2 273	

	<b>Subgroup</b>	<b>Work Section</b>	<b>AUS-SPEC Ref.</b>	<b>Amended by NCC/Date of Amendment</b>
	026 Landscape finishes	0261 Landscape - furniture and fixtures		
	029 Retaining walls	0292 Masonry walls	#2 274	
		0293 Crib retaining walls	#2 276	
<b>03 Structure</b>	031 Concrete	0310 Minor concrete works (AUS-SPEC)	#2 271	
		0311 Concrete formwork		
		0312 Concrete reinforcement		
		0314 Concrete in situ		
		0315 Concrete finishes		
		0316 Precast concrete		
		0318 Shotcrete		
<b>11 Construction - Roadways (AUS-SPEC)</b>	110 General	1101 Control of traffic	#1 DCSS C201 #2 200, 201	
		1102 Control of erosion and sedimentation	#1 DCSS C211 #2 211	
	111 Formation preparation	1111 Clearing and grubbing	#1 DCSS C212 # 2 212	
		1112 Earthworks (Roadways)	#1 DCSS C213 #2 213	
		1113 Stabilisation	#1 DCSS C241 #2 241	
	112 Rainwater collection	1121 Open drains including kerb and channel gutter	#1 DCSS C224 #2 224	

	<b>Subgroup</b>	<b>Work Section</b>	<b>AUS-SPEC Ref.</b>	<b>Amended by NCC/Date of Amendment</b>
	113 Pavement and subbase and base	1132 Mass concrete subbase	#1 DCSS C247 #2 247	
		1133 Plain and reinforced concrete base	#1 DCSS C248 #2 248	
		1136 Cold milling of asphalt and base course	#2 251	
	114 Pavement	1141 Flexible pavements	#1 DCSS C242 #2 242	
		1143 Sprayed bituminous surfacing	#1 DCSS C244 #2 244	
		1144 Asphaltic concrete (Roadways)	#1 DCSS C245 #2 245	
		1145 Segmental paving	#1 DCSS C254 #2 254	
		1146 Bituminous micro surfacing	#1 DCSS C255 #2 255	
	117 Pavement moisture control	1171 Subsurface drainage	#1 DCSS C230 #2 230	
		1172 Subsoil and foundation drains	#1 DCSS C231 #2 231	
		1173 Pavement drains	#1 DCSS C232 #2 232	
		1174 Drainage mats	#1 DCSS C233 #2 233	
	119 Traffic facilities	1191 Pavement markings	#1 DCSS C261 #2 261	
		1192 Signposting	#1 DCSS C262 # 262	
		1193 Guideposts	#1 DCSS C263 #2 263	
		1194 non-rigid road safety barrier systems (Public domain)	#1 DCSS C264 #2 264	

	Subgroup	Work Section	AUS-SPEC Ref.	Amended by NCC/Date of Amendment
		1195 Boundary fences for road reserves	#1 DCSS C265 #2 265	
<b>13 Construction - Public Utilities (AUS-SPEC)</b>	135 Water cycle management	1351 Stormwater drainage (Construction)	#1 DCSS C220 #2 220	
		1352 Pipe drainage	#1 DCSS C221 #2 221	
		1353 Precast box culverts	#1 DCSS C222 #2 222	
		1354 Drainage structures	#1 DCSS C223 #2 223	
	139 Others	1391 Service conduits	#2 300, 303	
		1392 Trenchless conduit installation	#2 305	

**Table 1.0: AUS-SPEC worksections**

Key
DDSS - AUS-SPEC #1 Development Design Specification Series
DCSS - AUS-SPEC # 1 Development Construction Specification Series
DM Design Manual

**Table 1.1: Key for AUS-SPEC worksections**

## 2.0 Obtaining the documents

All works sections may be accessed by NATSPEC subscribers at [www.natspec.com.au](http://www.natspec.com.au).

As part of the subscription service, NATSPEC provides updates to the specifications on a six-monthly basis. Subscribers to NATSPEC can therefore ensure that they have access to the most up-to-date versions. Refer to [www.natspec.com.au](http://www.natspec.com.au) for further information on subscription.

All specifications are subject to a licence agreement between CN and NATSPEC. Under the terms of the licence, CN may distribute, in non-editable formats, amended relevant worksections to consultants, contractors or designers who undertake works for CN or works which CN later accepts, such as residential subdivisions, and will not be in contravention of the licence agreement.

Non-subscribers may obtain non-editable versions of relevant worksections by contacting CN.

## 3.0 Amended worksections

If the above table indicates that the worksection has been amended by CN, refer to the amendment tables below for details of changes. These amendments override the corresponding clause in the AUS-SPEC worksections.

#### **4.0 Amended tables**

Nil

#### **5.0 CN specifications**

Details of CN's standard specifications can be found in CN's [Standard Drawings Register](#).