

This summary highlights amendments made for the April 2022 version, when compared to the December 2018 version. Grammar corrections are not included.

Clause references are to the new version unless stated otherwise.

Additional amendments are dated August 2022 and highlighted in yellow.

Additional amendments are dated November 2022 and highlighted in amber.

Additional amendments are dated March 2023 and highlighted in green.

Part/Clause	Paragraph	Amendment Details	Date
All	Improvement	Hyperlinks	April 2022
		URLS updated to reference the correct documents	
All	Improvement	Reference Documents	April 2022
		Missing or incorrect reference documents corrected. Dates removed to avoid incorrectly referencing	
		an outdated document.	
All	Improvement	Tables and Figures	April 2022
		Links are provided in the Table of Contents page	
All except 3,11	Reference	Christchurch City District Plan (City Plan)	April 2022
and 12	deleted and	References to Christchurch City District Plan (City Plan) removed and replaced with Christchurch	
	replaced	District Plan.	
1,5,6 and 7	Reference	The Christchurch Replacement District Plan (District Plan)	April 2022
	deleted and	References to Christchurch City District Plan (City Plan) removed as this was replaced by the	
	replaced	Christchurch District Plan.	
1.2	Updated	Coverage of IDS updates	April 2022
		Included the coverage of IDS 2022 update	
1.3, 8.3	Updated	Document Purpose	April 2022
		The parts of the IDS are intended to be read together as one document.	
1.5	Addition	New Abbreviation	April 2022
		NCR – Non-Conformance Report	

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Part/Clause	Paragraph	Amendment Details	Date
2.4	Updated	Reticulation	April 2022
		Updated the ownership of the residential pressure sewer system laterals.	
2.5.6	Updated	Road name signs	April 2022
		Change of requirement of the manufacture and erection of new nameplates, post and roundabout	
		chevron signage.	
2 – Appendix I-4	Updated	Services legend	April 2022
Figure 5		Updated the stormwater (SW) legend to Green – RGB (107,255,48)	
2 – Appendix I-4	Updated	Landscape draughting symbols	April 2022
and Figure 6		Updated requirements for landscape draughting and symbols	
2 – Appendix I-5,	Updated	Appendix I-5	November 2022
I-13 Figure 12		Added the new requirements for labelling new wastewater and stormwater assets.	
and Figure 13		Appendix I-13	
		Updated Figure 13 – showing new layout of a WS plan.	
		Updated Figure 14 – showing the new labelling of the news wastewater mains and laterals.	
2 – Appendix I	Updated	Typical plant list	April 2022
Figure 7		New list for shrub and riparian planting and the trees	
2 – Appendix I-13	Updated	Water Supply drawing	April 2022
Figure 13		Updated the drawing with the new SW service legend.	
2 – Appendix I-13	Updated	Landscape planting drawing	April 2022
Figure 17		Updated the drawing with the new landscape draughting symbols.	
2 and 3	Updated	Professional organisation's name	April 2022
		Changed IPENZ to EngNZ (Engineering New Zealand).	
3 Appendix XIV –	Deleted	Testing conditions	April 2022
2. Air Testing		Deleted the testing for DN600.	
4.3.6	Updated	Requirement for the detailing of the rockfall protection works	April 2022
		This work is be completed only by an Approved Geoprofessional.	
4.4.1	Addition	Add new bullet point	April 2022

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Part/Clause	Paragraph	Amendment Details	Date
		Consideration of trees based on the Tree policy.	
4.6.2 and	Updated	Liquefaction Information	April 2022
Appendix IV		Replaced the Liquefaction Resistance Index (Zoning) and Residential Zone Technical Categories by the Liquefaction Vulnerability Overview Map.	
5.9.5	Updated	Building over pipelines	
		Updated the old Water Supply, Wastewater and Stormwater Bylaw 2014 to Water Supply and Wastewater Bylaw 2022.	
5.6.10, 5.13.3	Updated	Updated requirements due to change from Liquefaction Resistance Index (LRI) to Liquefaction	August 2022
6.2.2, 6.2.6, 6.5.5,		Vulnerability Categories (LVC)	
6.7, 6.8,6.14,		Updated the LRI (zones) reference to Liquefaction vulnerability.	
6-Appendix III		Added the Vulnerability map website location.	
7.7,7.12.1			
7 – Appendix II			
6.1	Addition	New Reference Document	April 2022
		Odour and Corrosion Control Management Design Guideline	
6.2.5	Updated	Design lifetime	August 2022
		Updated requirements	
6.2.6	Updated	Table 1	August 2022
		Updated the LR zones to Liquefaction vulnerability areas.	
6.4.3	Updated	Table 2	August 2022
		Changed Net density in column 2 to Minimum net density.	
		Added new note at the bottom of Table 2.	
6.4.5	Updated	Table 3	April 2022
		Deleted the Commercial Local (CL) zoning and replaced by Industrial Park (IP) zoning.	
6.5.3	Updated	Equation 7	August2022
		Added the definitions of P/A and ASF.	
6.5.3	Updated	Equation 8	April 2022

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Part/Clause	Paragraph	Amendment Details	Date
		Deleted the definition of the daily peak flow (q) as there is no q in the equation.	
6.5.3	Added	Equation 8	August2022
		Added the definition of SCF.	
6.5.6	Updated	Inverted siphons on sanitary sewers	August 2022
		Updated the requirements on the second paragraph	
6.6.2	Updated	Reference and title change	April 2022
		Changed the reference to Biofilter to Odour Management.	
6.7	Updated and	Wastewater Pumping Stations	August 2022
	Deleted	Updated the requirements of odour control in the wastewater pumping stations	
		Deleted 6.7.1	
6.8	Updated	Pressure pipelines	August 2022
		Updated requirements of the rising main.	
6.9.2	Deleted	Air valves	April 2022
		Removed the alternative conditions for the Pressure Sewer System (PSS) valve.	
6.9.3	Added	Pressure sewer system requirement	April 2022
		Definition of principal pressure sewer mains	
		Maximum and minimum covers of pressure sewer mains and subamains are updated	
		Provision of mechanical protection	
6.9.3	Updated and	Figures and requirement	August 2022
	added	Updated Figure 3	
		Added new Figure 4	
		Updated the requirement in second to the last paragraph	
6.9.4	Updated	Isolation valves	August 2022
		Updated maximum number of properties from 50 to 20.	
6.9.5	Updated	Detailing	April 2022
		Updated the reticulation detailing for the PSS boundary kits.	
6.9.5	Added	Detailing	August 2022

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Part/Clause	Paragraph	Amendment Details	Date
		Added requirements in the last paragraph.	
6.11	Updated	Change of clause name and content	April 2022
		Changed the Biofilter to Odour Treatment and updated the odour treatment requirement.	
6.11	Deleted	Odour treatment	August 2022
		Deleted reference to lift stations.	
6.11, 6.1	Added	Odour and Corrosion Management Design Guide	November 2022
		Added to the IDS web page - <u>Infrastructure Design Standards (IDS)</u> : <u>Christchurch City Council</u>	
		(ccc.govt.nz)	
6.12.1	Added	Sanitary junctions and laterals	August 2022
		Added a new requirement of the Water Supply and Wastewater Bylaw 2022	
6.13	Updated	Material selection	August 2022
		Updated the requirements.	
6.13.2	Added	Reducing waste	August 2022
		Added scopes of when to consider waste reduction	
6.13.5	Updated	Sewers in commercial of industrial zones	August 2022
		Updated the requirements	
6.13.6	Updated	Mitigation of H₂S corrosion and odourous gases	April 2022
C 10 7		Updated the requirements.	
6.13.7	Updated	Steep gradients	August 2022
C 4 4 2	5.1.1	Updated the requirements	4 4 2000
6.14.3	Deleted	Scour	August 2022
C 1 4 4	11 malaka d	Updated the embedment and backfill materials for hillside areas.	A., -, -, + 2022
6.14.4	Updated	Change in title and requirements	August 2022
		Changed title from Redundant infrastructure to Abandoned infrastructure.      Undated requirements.	
		<ul> <li>Updated requirements</li> <li>Updated numbering of Figure 4 to Figure 5 as a result of the new Figure 4 in clause 6.9.3</li> </ul>	
C 1E	Undated		August 2022
6.15	Updated	Change in title and requirements	August 2022

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Part/Clause	Paragraph	Amendment Details	Date
		Changed title from Clearances to Clearances and Asset Protection	
		Updated requirements	
6.16.1	Updated	Pipe bursting	August 2022
		Updated the requirements.	
6.16.2	Updated	CIPP Lining	August 2022
		Updated the requirements.	
6.17	Added	New clause added - 6.17 Pipe Ducts	August 2022
		Specified the new requirements.	
6.17 to 6.19	Updated	Clause numbering updated	August 2022
		Updated clause 17 to 19 to clause 6.18 to 6.20 respectively due to the new clause added 6.17 – Pipe	
		Ducts	
6 – Appendix III	Updated	Wastewater Material Selection Table	August 2022
		Updated the requirements.	
		Deleted the title Table 10	
7.2.5	Updated	Supply alternatives	August 2022
		Deleted the first paragraph.	
7.4.1	Updated	Design considerations	August 2022
		Added a new design consideration.	
7.4.4	Added	New bullet points	April 2022
		New materials for use in contaminated sites.	
7.4.5	Updated	Specific structural design	April 2022
		Updated requirements – first paragraph	
7.5.3	Added	Design for restricted water supply areas	August 2022
		Added new requirement – last paragraph.	
7.5.5	Added	Fire services	August 2022
		Added meeting the requirements of the Water Supply and Wastewater Bylaw 2022.	
7.6.2	Updated	Change in title and requirements	August 2022

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Part/Clause	Paragraph	Amendment Details	Date
		Change title from Standard main sizes to Standard main and submain sizes.	
		Change in the acceptable DN sizes.	
7.6.3	Updated	Minimum pipe and fitting class	August 2022
		Change from PN15 to PN16.	
7.8	Updated	Reticulation layout	August 2022
		Updated the requirements – first paragraph.	
7.8.1	Added	New bullet point	April 2022
		Additional consideration for the general layout of the mains	
7.8.1	Updated	Mains layout	August 2022
		Updated the requirements – last paragraph.	
7.8.3	Updated	Reticulation in legal road	August 2022
		Updated the requirements – third paragraph.	
7.8.5	Updated	Submains	August 2022
		Updated the requirements – first and last paragraphs.	
7.9.4	Updated	Trenchless technology	August 2022
		Clarified that trenchless technology can be considered rather than can be used.	
7.9.5	Updated	Cover over pipes	August 2022
		Updated the requirements.	
7.9.7	Updated	Working around structures	August 2022
		Updated the requirements	
7.9.9	Added	New clause	August 2022
		Added new clause 7.9.9 - Pipe Ducts	
7.9.10, 7.9.12	Updated	Clause numbers	August 2022
		Updated due to the addition of new clause 7.9.9	
7.10	Updated	Reticulated fittings	August 2022
7.10.1, 7.10.4,		Updated the requirements.	
7.10.5			

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Part/Clause	Paragraph	Amendment Details	Date
7.10.6	Added	Pressure reducing valves and check valves	August 2022
		Added new requirements – last paragraph.	
7.10.7	Updated	Design requirement	April 2022
		Design for valves including in-line valves on mains with unrestrained joint.	
7.11	Updated	Change in title and requirements	August 2022
		Changed Redundant infrastructure to Abandoned infrastructure.	
		Added new requirements.	
7.12.1	Updated	Material selection	August 2022
		Submains – only PE 80B	
7.12.2	Added	Material specifications	August 2022
		Added PE in the fifth paragraph.	
7 – Appendix I	Added	New bullet	August 2022
		Added new requirement – last bullet.	
8.1, 8.10	New	New Referenced Documents - Design added	April 2022
	References	New Zealand Heavy Haulage Association Road Design Specifications for Over Dimensions Loads	
		Christchurch City Council Waste Management Bylaw 2009 (Terms and Conditions)	
		Christchurch City Council Regional Special Conditions (for Traffic Signals)	
8.5	Added	Off Road Linkages	August 2022
		Added a new requirement.	
8.10	Deleted	Road Design	April 2022
		Removed Figures 6 and 7 and succeeding figure numbers adjusted.	
8.11.6	Updated	Sub-clause name	April 2022
		Changed to Signalised Intersections.	
8.13.3	Updated	Vertical alignment	April 2022
		New requirement - roadway crossing a waterway or a drainage path.	
8.15.1	Updated	Footpath and vehicle crossing	April 2022
		New material requirement -Asphalt pavement type or provide an NCR for an alternative.	

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Part/Clause	Paragraph	Amendment Details	Date
8.15.3	Updated	Service strips	April 2022
		New requirement for the width of the service strip.	
8.15.9	Updated	Residential crossing	April 2022
		Design in accordance with Christchurch District Plan and refer to CSS: Part 6 SD606.	
9.5.2	Added	New bullet point	April 2022
		Tree planting – additional consideration when planning the location of the utilities	
9.6.2	Updated	Corridor Access Request (CAR)	April 2022
		Replaced <u>www.beforeudig.co.nz</u> to <u>www.myworksites.co.nz</u>	
10.1	Reference	New reference document	April 2022
	added	Ōtautahi Christchurch Climate Resilience Strategy (2021)	
		Tree Health and Maintenance (MIS313) Minimum Industry Standard (Arboriculture Australia	
		2020)	
10.1	Reference	New reference document	March 2023
	added	Christchurch City Council Tree Planting Guide <u>www.ccc.govt.nz/tree-planting-guide</u>	
10.1, 10.6.9	References	Obsolete reference	April 2022
	deleted	Christchurch City Council Thinking About Fencing?	
10.2	Added	New bullet point	April 2022
		Trees as critical infrastructure	
		New applicable documents	
		District Plan	
		Tree Policy	
10.2	Updated	Last paragraph	April 2022
		Overall objectives to be incorporated into the initial concept for the development.	
10.3.2	Updated	Design report	April 2022
		Updated the content requirement of the design report.	
10.3.4	Updated	Engineer's report	April 2022

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Part/Clause	Paragraph	Amendment Details	Date
		Updated the requirement upon completion of physical works.	
10.3.5	Updated	Drawings	April 2022
		Updated the requirements on landscape plans and planting drawings.	
10.4.2	Updated	Existing vegetation	April 2022
		Updated the requirements.	
10.5.1	Updated	Last paragraph	April 2022
		Updated the requirement of vesting the developed reserve to Council.	
10.5.2	Added	New bullet points - factors to consider when designing reserves	April 2022
		3 <sup>rd</sup> - Compatibility between ground conditions/earthworks design, engineering design and	
		planting design	
		8 <sup>th</sup> - Current and future tree planting sites	
10.5.3	Updated	Utilities	April 2022
		Clearance requirement of utility cables from current and future tree planting sites.	
10.5.7	Added	New clause	April 2022
		Planting on slopes	
10.6.2	Updated	Playground and play structures	April 2022
		Updated the entire clause.	
10.6.3	Updated	Recreational hard surfaces, ball courts and skate-boarding facilities	April 2022
		Entire clause updated.	
10.6.8	Updated	Drinking fountains	April 2022
		Changed the sub-clause name to Drinking fountains.	
		Requirements updated.	
10.9.1	Added	New bullet points	April 2022
		New requirements for functional planting design – last two bullets points.	
10.9.2	Updated	Planting design	April 2022
		Updated the entire clause.	



Part/Clause	Paragraph	Amendment Details	Date
10.9.4	Updated	Compatibility with engineering design	April 2022
		Updated the entire clause.	
10.9.5	Updated	Species selection	April 2022
		Included turf species.	
		Updated the undesirable characteristic list of various plant species.	
		Included Tree Planting Guide link.	
10.9.5	Updated	Species selection	March 2023
		Added the Tree Planting guide link and content in paragraph 1 and the last paragraph.	
10.9.6	Updated	Tree selection and placement	April 2022
		Updated the requirements.	
		Deleted Table 1.	
		Replaced the reference to the Tree Policy by CSS: Part 7.	
10.9.6	Updated	Tree selection and placement	March 2023
		Updated the requirements on representation of species in paragraph 2.	
10.9.8	Updated	Revegetation, restoration and connection of habitats	April 2022
		Updated requirements in paragraphs 4 and 5 updated.	
10.9.10	Updated	Location of trees in reserve	April 2022
		Updated the entire clause. Removed Figure 2 and adjusted the subsequent figure numbers in Part	
		10.	
10.9.11	Updated	Location of trees in streets	April 2022
		Updated the requirements.	
10.9.12	Updated	Protection of sightlines	April 2022
		Updated the requirements.	
10.9.14	Updated	Strategically place group planting of trees	April 2022
		May also be required where ground conditions are not suitable for street tree establishment.	
10.11.1	Updated	Establishment	April 2022



Part/Clause	Paragraph	Amendment Details	Date
		Updated the requirements.	
10.11.3	Updated	Presentation of reserves and streetscapes	April 2022
		Additional Council inspection – at the end of the establishment period.	
		Updated the minimum requirements of developed landscaped areas.	
		Deleted the last paragraph.	
11.4.1	Updated	Category P (local road and pedestrian area) lighting	April 2022
		• Luminaires must be approved by Council, see Approved Materials list for street lighting.	
		Category P3NZ changed to PR4.	
11.4.2	Updated	Lighting category	April 2022
		Category P3NZ changed to PP3 and P4 to PP4.	
Part 11 Appendix	Updated	Table 1	April 2022
1		Updated lighting category P3NZ to PR4 and P4 to PR5.	
12.2	Updated	Asset classes maintained by more than one area of the Council	April 2022
		Updated the As- built template requirement.	
12.4.2, 12.4.3,	Updated	Name change	April 2022
12.4.4		Re-named Pickup sheet to CAT sheet.	
12.4.5	Updated	Name change	April 2022
		Re-named Street CAT to Land Improvements Green Assets CAT.	
12.4.6	Updated	Name change	April 2022
		Re-named Street CAT to Land Improvements CAT.	