

ATTACHMENT 'A'
AMENDMENT RECORD OF ALL CHANGES INCLUDED IN THE
MANUAL OF ENGINEERING STANDARDS AND SPECIFICATIONS EDITION No. 15

CITY OF NANAIMO
MANUAL OF ENGINEERING STANDARDS AND SPECIFICATIONS AMENDMENT RECORD

Manual Revision # 15

Revision Date: 2026

The Revision No.15 Edition of the Manual of Engineering Standards and Specifications (MoESS) was re-published in its entirety.

The footer for these sections has been revised to represents this revision 'June 2026 Edition'. This represents the most current edition of the manual. In addition to the footer, the manual text continues to include the revision date in (BOLD ITALICS) at the end of the paragraph affected by the technical amendment. This represents the technical amendments that are incorporated into the MoESS for this revision year.

The sub-sections that had revisions within Edition No.14 are noted with the manual text in (BOLD ITALICS)

The standard drawings include a footer that reads

Engineering Standards and Specifications June 2026 Edition

Each Manual holder is responsible for determining implementation dates of the Manual of Engineering Standards and Specifications revisions. Therefore, manual holders are cautioned about immediately discarding superseded and cancelled standards.

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
0Intro	0.0_TOC_INTRO	Added: section numbers for the introduction
	0.0_TOC_INTRO	Added: table of contents and section numbers for the introduction
0Intro	0.0_TOC_INTRO	Renamed: see Zoning Bylaw No. 4500 (2024)
0Intro	0.0_TOC_INTRO	Changed: 'Family' to 'Dwelling'
0Intro	0.0_TOC_INTRO	Changed: 'System' to 'system'
0Intro	0.01 .1	Changed: 'and' to '&'
0Intro	0.01 .1	Changed: 'has been compiled to reflect' to (MoESS) also referenced as Schedule A Subdivision and Development Bylaw reflects'=>[0.01 .1]
0Intro	0.01 .2	Changed: 'Engineer' to 'Qualified Professionals'
0Intro	0.01 .2 (a)	Added: clause

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0Intro	0.01 .2 (a)	Added: 'The majority of Manual users are registrants governed by the <i>Professional Governance Act</i> (PGA) along with their respective professional regulatory bodies, who are working with a Professional of Record.'
0Intro	0.01 .3 (a)	Changed: 'as-built drawings' to 'record drawings'
0Intro	0.01 .3 (c)	Changed: 'Excavation trenching and backfill are dealt with' to 'Section 4 covers excavation trenching and backfill'
0Intro	0.01 .4	Redesignated: .3 to .4
0Intro	0.01 .5	Redesignated: .4 to .5
0Intro	0.02 .1	Added: '(MoESS) applies '
0Intro	0.02 .1	Changed: 'statutory and road rights-of-way' to 'statutory rights-of-way and dedicated road rights-of-way'
0Intro	0.02 .1	Removed: '(i.e. subdivision etc.). There are sections of the Manual which are not applicable to all the various users. However contracts designs and construction of works within the scope of the manual shall comply with the intent of the Manual and adhere to the Design Specification and Installation Requirements.' to subclauses
0Intro	0.02 .1	Changed: 'and' to '& '
0Intro	0.02 .1 (a)	Added: 'In the context of subdivisions this document is Schedule A in Subdivision and Development Servicing Bylaw, the associated Works must be in compliance with the bylaw.'
0Intro	0.02 .1 (b) New	Added: 'In other applications'
0Intro	0.02 .1 (b)	Changed: 'adhere' to ' and be in conformance'
0Intro	0.02 .1 (c)	Changed: 'No departure from the requirements of the Manual shall be permitted without the prior approval of the City Engineer' to 'Non-conformance from the requirements of the Manual must be documented and require approval from the City Engineer'
0Intro	0.02 .1 (b)	Redesignated 0.02.1
0Intro	0.02 .1 (d) New	Added: 'Portions of the MoESS may apply to private property infrastructure where it is a requirement of a service being provided by the City such as, but not limited to, the requirement for cross connection control, standards for private fire hydrant installation, and stormwater management infrastructure. '

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		Changed: '.7 Where "approval" is requested by the Manual it shall mean approval by the City Engineer unless otherwise stated. For "approval" all requests shall be submitted by a Professional Engineer complete with any supporting documentation to the City Engineer.' to 'Where "approval" is required by this Manual, such approval shall mean written approval granted by the City Engineer unless otherwise specified. All submissions requesting approval by the City Engineer shall be prepared and submitted by the Professional of Record and shall include all applicable drawings, specifications, calculations, product information and other supporting documentation. Review or approval by the City Engineer shall not relieve the Contractor, the Consultant or the Professional Engineer of responsibility for the accuracy, completeness, coordination, or compliance with this Manual of the design, design drawings or the Works.'
0Intro	0.02 .2 from .7	
0Intro	0.02 .3 from .2	Renamed: 'DEFINITION OF TERMS.' to 'Defined Terms'
0Intro	0.02 .3 from .2	Removed: 'please'
0Intro	0.02 .4 (a)	Changed: 'Design Engineer's approval' to 'City Engineer's approval'
0Intro	0.02 .4 (a) from .3 (a)	Changed: 'Design Engineer's approval' to 'approval by City Engineer'
0Intro	0.02 .5 from .6	Changed: 'the Engineering, Municipal Infrastructure division for clarification.' to 'Engineering Department (MoESS@nanaimo.ca).'
0Intro	0.02 .6 from .4	Changed: '.4 For a list of specifications and other references by the Manual, please refer to Section 2.01B – Reference.' to 'Reference documents that commonly apply to Works are located as reference resources accessible on the public website that is periodically updated.'
0Intro	0.02 .7 from .8	Changed: '.8 For proposed works not covered by the requirements of the Manual, supplementary specifications, product information or other supporting documentation shall be submitted by a Professional Engineer for approval' to 'For proposed works not covered by the requirements of the Manual, supplementary specifications, product information or other supporting documentation are to be submitted by the Professional of Record for approval by the City Engineer.'
0Intro	0.03 .1	Added: '(MoESS@nanaimo.ca).'
0Intro	0.03 .1	Added: 'Department'
0Intro	0.03 .1	Changed: 'should' to 'are to' and 'and' to '&'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
0Intro	0.03 .1	Removed: 'Engineering, Municipal Infrastructure division using the standard Revision Request Summary Sheet form included in Appendix A of this document.'
0Intro	0.03 .2	Changed: 'should' to 'are to'
0Intro	0.03 .3	Changed: 'should' to 'are to'
0Intro	0.03 .4	Changed: 'Changes which are made will be implemented at the discretion of the Engineering Services Division.' to 'Changes are considered at the next update of the Manual following due process.'
0Intro	0.04 .1	Changed: 'approximately every three years' to ' on a regular basis'
0Intro	0.04 .1	Removed: 'When required interim amendments will be issued.'
0Intro	0.04 .1	Changed: 'and' to '&' and 'will be' to 'are'
0Intro	0.04 .2	Changed: 'Amendments and interim amendments will published.' To 'Amendments and clarifications are published to the City of Nanaimo's website'
Section 1	1.0_TOC	Changed: 'Co-ordinate' to 'coordinate'
Section 1	1.01 .1	Changed: 'shall consist of' to 'consists of'
Section 1	1.01 .1 (b)	Changed: 'road' to 'roadways'
Section 1	1.01 .1 (j)	Removed: 'REVISED MAY 2020'
Section 2	1.01 .2	Changed: 'shall be' to 'is'
Section 2	1.01 .2	Changed: '(24" x 36";)' to '(24" in x 36" in;)'
Section 1	1.01 .3	Changed: 'shall' to 'and scale bars are to'
Section 1	1.01 .3	Changed: 'shall' to 'must'
Section 1	1.01 .4	Changed: 'shall be' to 'are'
Section 1	1.01 .4	Changed: 'shall' to 'are'
Section 1	1.01 .4	Removed: 'shall locate and'
Section 1	1.01 .5	Removed: 'shall'
Section 1	1.01 .5	Removed: 'shall be'
Section 1	1.01 .6	Changed: 'Conflicts between linework symbols dimensioning or text shall not occur.' to ' Avoid overlaps of annotation elements such as symbols dimensions and text.'
Section 1	1.01 .7	Changed: 'shall' to 'are to'
Section 1	1.01 .8	Changed: 'Co-ordinate' to 'coordinate'
Section 1	1.01 .8	Changed: 'shall' to 'must' (x2)

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 1	1.01 .9	Changed: 'shall be completed with' to 'includes'
Section 1	1.01 .8 (f)	Added: and scale bar
Section 1	1.01 .8 (k)	Changed: 'Engineer's Name' to 'Professional of Record Authentication (Name Seal Signature and Date'
Section 1	1.01 .10	Changed: ' etc. that are shown and described in the City of Nanaimo Standard Drawings need not be shown in detail on the drawings; the Standard Drawing No. shall be quoted on the plan for reference.' To ': 'and similar appurtenances that comply with the City Standard Drawings are annotated with the applicable drawing numbers.'
Section 1	1.01 .10	Changed: 'shall' to 'are to'
Section 1	1.01 .11	Changed: 'professional engineer' to 'Professional of Record.
Section 1	1.01 .11	Changed: 'shall bear the dated stamp/seal and signature' to 'must bear the authentication'
Sectoin 1	1.01 .12	Changed: 'shall' to 'are to'
Section 1	1.02 .1	Changed: 'shall be to a scale of not less than 1:1000.' to ' scale is 1:1000 or larger.'
Section 1	1.02 .2	Changed: ' site plan shall include but' to 'Site Plan includes but'
Section 1	1.02 .2 (o)	Changed: '100-year storm event' to '1:100 AEP (1% AEP) storm event'
Section 1	1.02 .3	Changed: 'sale' to 'scale'
Section 1	1.02 .3	Changed: '10000' to '10,000'
Section 1	1.02 .3	Changed: 'shall be provided' to 'is positioned'
Section 1	1.02 .4	Changed: 'City of Nanaimo' to 'City'
Section 1	1.02 .4	Changed: 'shall be provided' to 'includes'
Section 1	1.02 .5	Changed: 'shall be' to 'are'
Section 1	1.02 .5 (a)	Changed: 'and' to ' &'
Section 1	1.02 .5 (d)	Changed: 'shall' to 'must'
Section 1	1.02 .5 (e)	Renamed: ' Ministry of Forests Lands Natural Resource Operations and Rural Development' to 'Ministry of Forests, Ministry of Land, Water, and Resource Stewardship'
Section 1	1.03	Changed : 'drawings shall show' to 'drawing shows,'
Section 1	1.03 .1	Changed: 'shall' to 'are to'
Section 1	1.03 .1_Table	Changed: '2x' to '2.5x'

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Section 1	1.03 .1_Table	Changed: 'shall' to 'can'
Section 1	1.03 .2	Added: ' is shown'
Section 1	1.03 .2	Changed: 'To be' to 'This information is'
Section 1	1.03 .4	Added: 'dedication'
Section 1	1.03 .6	Changed: 'shall' to 'are to'
Section 1	1.03 .7	Changed: 'meter' to 'metre'
Section 1	1.03 .8	Changed: 'road' to 'roadway'
Section 1	1.03 .8	Changed: 'shall run' to 'runs'
Section 1	1.03 .8	Removed: 'shall' (x2)
Section 1	1.03 .8	Changed: 'shall be' to 'are'
Section 1	1.03 .9	Changed: 'road' to 'roadway'
Section 1	1.03 .9	Changed: 'shall' to 'must'
Section 1	1.03 .9	Removed: 'shall'
Section 1	1.03 .10	Added: The number of split profile views are to be limited to two per drawing sheet only when necessary. This applies to all drawings
Section 1	1.03 .10	Changed: 'shall' to 'are to'
Section 1	1.04	Added: 'In addition to Section 1.03, the following information is required.'
Section 1	1.04 .1	Changed: 'road' to 'roadway'
Section 1	1.04 .1	Changed: 'roadworks' to 'works'
Section 1	1.04 .2	Changed: 'BC & EC' to ' the beginning of curve (BC) and end of curve (EC) of roadway'
Section 1	1.04 .4	Changed: 'Road' to 'roadway'
Section 1	1.04 .7	Changed: 'road' to 'roadway'
Section 1	1.04 .8	Added: 'beginning of vertical curve (BVC), end of vertical curve (EVC) and vertical point of intersection (VPI).'
Section 1	1.04 .12	Changed: 'shall' to 'are to'
Section 1	1.04 .13	Changed: 'centre line' to 'centerline'
Section 1	1.04 .13	Changed: 'road' to 'roadway'
Section 1	1.04 .13	Changed: 'shall' to 'are to'
Section 1	1.04 .14	Changed: 'shall be provided as required' to 'is required'
Section 1	1.04 .14	Changed: 'shall' to 'are to'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 1	1.04 .14	Changed: 'Where only half road is being constructed full width' to 'Where only a half road is being constructed, the full width design cross-sections is required '
Section 1	1.04 .15	Changed: 'road' to 'roadway'
Section 1	1.04 .15	Changed: 'road' to 'street'
Section 1	1.04 .15	Changed: 'showing' to 'shows the'
Section 1	1.05	Changed: 'The following shall be shown in addition to the information required in section 1.03' to 'In addition to Section 1.03 [→] the following information is required'
Section 1	1.05 .2	Changed: 'road' to 'roadway'
Section 1	1.05 .8	Changed: 'shall' to 'are to'
Section 1	1.05 .11	Changed: 'Routing of all major storm flows including the 100 year storm with minimum basement floor elevations provided for properties with the potential to be affected by the major storm flows' to 'For storm in the profile show the hydraulic grade line for the minor system and major system and minimum elevation for habitable area. The plan view shows the overland flow path if applicable.'
Section 1	1.05 .12	Changed: 'shall' to 'are to'
Section 1	1.05 .12	Changed: 'rate and return period' to 'Annual Exceedance Probability (AEP)'
Section 1	1.06	Changed: 'The following shall be shown in addition to the information required in section 1.03' to 'In addition to Section 1.03, the following information is required'
Section 1	1.06 .1	Changed: 'road' to 'roadway'
Section 1	1.06 .1	Changed: 'shall be' to 'are shown'
Section 1	1.06 .6	Changed: 'road' to 'roadway'
Section 1	1.06 .6	Changed: 'shall be' to 'details are'
Section 1	1.06 .7	Changed: 'shall' to 'are to'
Section 1	1.07 .1	Changed: 'shall' to 'are to'
Section 1	1.07 .1	Changed: 'The following shall be shown in addition to the information required in section 1.03' to 'In addition to Section 1.03, the following information is required'
Section 1	1.07 .1 (a)	Changed: 'road' to 'roadway'
Section 1	1.07 .2	Changed: 'Co-ordinate' to 'coordinate'
Section 1	1.07 .2	Changed: 'co-ordinates' to 'coordinates'
Section 1	1.07 .2	Changed: 'shall' to 'are to' (x2)
Section 1	1.07 .3	Changed: 'shall be to scale of' to 'scales are'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 1	1.07 .4	Removed: 'shall'
Section 1	1.08 .1	Changed: 'shall be' to 'is'
Section 1	1.08 .1	Changed: 'shall conform' to 'conforms'
Section 1	1.08 .1	Removed: 'or City of Nanaimo Traffic and Highway Installation Guidelines.'
Section 1	1.08 .1	Removed: 'by MoTI'
Section 1	1.08 .1	Changed: 'information shall be shown' to 'items are shown'
Section 1	1.08 .1	Changed: 'shall detail' to 'details'
Section 1	1.08 .2	Changed: 'shall be to a scale of' to 'scales are'
Section 1	1.09 .2	Changed: 'shall be' to 'is'
Section 1	1.09 .2	Removed: 'shall be'
Section 1	1.09 .3	Changed: 'road' to 'street'
Section 1	1.10 .1	Changed: 'shall be to scale of' to 'scale is'
Section 1	1.10 .1	Changed: 'shall' to 'are to'
Section 1	1.10 .2	Changed: 'Adequate space shall be left' to 'Provide adequate space'
Section 1	1.10 .2	Changed: 'shall' to 'are to' (x3)
Section 1	1.10 .2	Removed: 'so as'
Section 1	1.10 .3	Removed: 'shall'
Section 1	1.10 .3 (a)	Changed: 'road' to 'street'
Section 1	1.11 .1	Changed: 'shall' to 'must'
Section 1	1.11 .2	Changed: 'shall' to 'must'
Section 1	1.11 .3	Changed: 'The following information shall be shown in addition to the information required for the plan view in Section 1.03' to 'In addition to Section 1.03 [→] the following information is to be included:'
Section 1	1.11 .4	Changed: 'R.O.W' to 'right-of-way'
Section 1	1.11 .4	Changed: 'shall' to 'are to'
Section 1	1.11 .5	Added: 'in'
Section 1	1.11 .6	Changed 'An irrigation plan shall' to 'Irrigation plans are to'
Section 1	1.11 .6 (c)	Changed: 'City of Nanaimo' to 'City'
Section 1	1.11A .2	Changed: 'shall' to 'are to'
Section 1	1.11A section	Removed: 'REVISED MAY 2020'
Section 1	1.12 .2	Changed: 'that shall be shown on' to 'required on the'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 1	1.13 .3	Changed: 'signed and sealed' to 'authenticated'
Section 1	1.13 .3	Changed: 'Professional Engineer shall' to 'Professional of Record must'
Section 1	1.16 .1	Changed: 'shall' to 'must'
Section 1	1.16 .1	Renamed: 'Ministry of Forests' to 'Ministry of Forests, Lands, Natural Resource Operations and Rural Development.'
Section 1	1.20 .1	Changed: 'shall' to 'are to'
Section 1	1.20 .1	Removed: ' shall'
Section 1	1.20 .2	Changed: 'shall' to 'are removed and'
Section 1	1.20 .2	Changed: 'shall' to 'are to'
Section 1	1.20 .3	Removed: 'be'
Section 1	1.20 .3	Changed: 'shall retain' to 'retains'
Section 1	1.20 .3	Changed: 'shall' to 'are'
Section 1	1.20 .4	Changed: 'shall' to 'are to'
Section 1	1.20 .4	Changed: 'shall' to 'is to'
Section 1	1.20 .4	Changed: 'shall' to 'must'
Section 1	1.20 .5	Changed: 'shall' to 'must'
Section 1	1.20 .6	Changed: 'City of Nanaimo's Engineering and Public Works Department' to 'City'
Section 1	1.20 .6	Changed: 'road' to 'roadway'
Section 1	1.20 .6	Changed: 'shall' to 'needs to'
Section 1	1.20 .6 (e)	Added: 'with In-Service date filled in'
Section 1	1.20 .6 (e)	Changed: 'shall' to 'are to'
Section 1	1.20 .6 (f)	Changed: 'shall include' to 'includes'
Section 1	1.20 .6 (f) (i)	Changed: 'Diameter and material' to 'Length, diameter, material and grade'
Section 1	1.20 .6 (f)_Paragraph1	Changed: 'shall include' to 'includes'
Section 1	1.20 .6 (f) (vi) removed	Removed: 'Length, diameter, material and grade of sanitary mains'
Section 1	1.20 .6 (f) (vii) redesignated to (vi)	Redesignated
Section 1	1.20 .6 (f) (viii) redesignated to (vii)	Redesignated
Section 1	1.20 .6 (g)	Changed: 'shall include' to 'includes'
Section 1	1.20 .6 (g) (vi)_Paragraph_0	Changed: 'shall include' to 'includes'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 1	1.20 .6 (h)	Changed: 'shall include' to 'includes'
Section 1	1.20 .6 (h) (iv)_Paragraph_0	Changed: 'shall include' to 'includes'
Section 1	1.20 .6 (i)	Changed: 'shall include' to 'includes'
Section 1	1.20 .6 (j)	Changed: 'shall include' to 'includes'
Section 1	1.20 .6 (j) (i)	Changed: 'road' to 'street'
Section 1	1.20 .6 (j) (i)	Removed: 'REVISED MAY 2020'
Section 1	1.20 .6 (j) (viii)	Added: Junction Boxes – specify the type. Street lighting junction boxes are to be further differentiated as box cabinet or pole fitting'
Section 1	1.20 .6 (k)	Changed: 'shall include' to 'includes'
Section 1	1.21 .1	Removed: 'are to be submitted on 3 mil mylar. Drawings'
Section 1	1.21 .1	Changed: 'Design Engineer' to 'Professional of Record'
Section 1	1.21 .1	Changed: 'signed and sealed' to 'authenticated'
Section 1	1.21 .1	Removed: 'Three prints of the site plan are to be provided.'
Section 1	1.21 .1 (a) (new)	Added: A pdf version of both the drawing set and individual sheets.
Section 1	1.21 .1 (b) (new)	Added: 'A 3 mil mylar print of the drawing set'
Section 1	1.21 .1 (c) (new)	Added: A digital copy of the completed record drawing as per Section 1.22 [->]
Section 1	1.21 .2	Changed: 'information' to 'documents'
Section 1	1.21 .2	Changed: 'shall' to 'are to'
Section 1	1.21 .2 (b)	Changed: 'City of Nanaimo' to 'City'
Section 1	1.21 .2 (b)	Changed: 'shall' to 'are to'
Section 1	1.21 .2 (d)	Changed: 'Professional Engineer' to 'Professional of Record'
Section 1	1.21 .2 (f) (i)	Removed: 'signed and sealed by a Professional Engineer'
Section 1	1.21 .2 (f) (i)	Changed: 'Professional Engineer' to 'Professional of Record'
Section 1	1.21 .2 (f) (ii)	Removed: 'sealed'
Section 1	1.21 .2 (f) (ii)	Added: 'Professional of Record - a'
Section 1	1.22 .1	Changed: 'shall be' to 'is' and 'shall be' to 'are'
Section 1	1.22 .1	Removed: 'REVISED MAY 2020'
Section 1	1.22 .2	Changed: 'shall' to 'are to'
Section 1	1.22 .3	Changed: 'ABD-STM' to 'V-STRM-A'
Section 1	1.22 .3	Changed: 'shall' to 'contains' and 'shall be' to 'are'
Section 1	1.22 .3 a to l	Changed: '(a) ABD-GAS' to 'V-UTIL-NGAS-A Gas Infrastructure'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 1	1.22 .3 a to l	Changed: '(b) ABD-SAN' to 'V-SSWR-A Sanitary Infrastructure'
Section 1	1.22 .3 a to l	Changed: '(c) ABD-STM' to 'V-STRM-A Storm Infrastructure'
Section 1	1.22 .3 a to l	Changed: '(d) ABD-WAT' to 'V-WATR-A Water Infrastructure'
Section 1	1.22 .3 a to l	Changed: '(e) REMOVED-CURB' to 'C-ROAD-CURB-D Curbs'
Section 1	1.22 .3 a to l	Changed: '(f) REMOVED-EP' to 'C-ROAD-ASPH-D Edges of Pavement'
Section 1	1.22 .3 a to l	Changed: '(g) REMOVED-PAINTLINE' to 'C-ROAD-MRKG-D Paintlines'
Section 1	1.22 .3 a to l	Changed: '(h) REMOVED-SAN' to 'C-SSWR-D Sanitary Infrastructure'
Section 1	1.22 .3 a to l	Changed: '(i) REMOVED-SIGN' to 'C-ROAD-SIGN-D Signs'
Section 1	1.22 .3 a to l	Changed: '(j) REMOVED-STM' to 'C-STRM-D Storm Infrastructure'
Section 1	1.22 .3 a to l	Changed: '(k) REMOVED-SW' to 'C-ROAD-SWLK-D Sidewalks'
Section 1	1.22 .3 a to l	Changed: '(l) REMOVED-WAT' to 'C-WATR-D Water Infrastructure'
Section 1	Before 1.40 (HEADING)	Removed: CAD STANDARDS
Section 1	1.40 .1	Changed: 'City of Nanaimo' to 'City'
Section 1	1.40 .1	Changed: 'shall' to 'must'
Section 1	1.40 .3	Changed: 'City of Nanaimo' to 'City' X2
Section 1	1.40 .3	Removed: 'REVISED MAY 2020'
Section 1	1.40 .4	Changed: 'City of Nanaimo' to 'City' X2
Section 1	1.41 .1	Changed: 'City of Nanaimo' to 'City'
Section 1	1.41 .1	Removed: 'REVISED MAY 2020'
Section 1	1.42	Changed: 'Co-ordinate' to 'coordinate'
Section 1	1.42 .1	Added: ' North American Datum 1983 '
Section 1	1.42 .1	Changed: 'City's of Nanaimo's' to 'the City's'
Section 1	1.42 .1	Changed: 'shall' to 'must'
Section 1	1.42 .1	Changed: 'U.T.M.' to 'UTM'
Section 1	1.42 .1	Removed: 'of Nanaimo'
Section 1	1.42 .2	Changed: 'form' to 'from'
Section 1	1.42 .2	Changed: 'these will be' to 'are'
Section 1	1.42 .2	Removed: 'If the consultant obtains'
Section 1	1.42 .4	Changed: 'City of Nanaimo' to 'City'
Section 1	1.43 .1	Changed: 'City of Nanaimo' to 'City'
Section 1	1.43 .1	Changed: 'project manager' to 'City'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 1	1.43 .1	Removed: 'Layer naming conventions for existing and proposed conditions shall be adhered to. '
Section 1	1.43 .1	Removed: 'the consultant shall'
Section 1	1.43 .2	Changed: ' a categorized CAT layer naming convention used to represent existing and proposed conditions. The naming convention is as follows:' to ' the National CAD Standards V6 for layer naming conventions. All new layers created are to comply with these standards'
Section 1	1.43 .2	Changed: 'City of Nanaimo' to 'City'
Section 1	1.43 .2 (a) to (d)	Changed categories to new standard and redesignated.
Section 1	1.43 .3	Changed: 'City of Nanaimo' to 'City'
Section 1	1.44 .1	Changed: 'City of Nanaimo' to 'City'
Section 1	1.44 .1	to 'Applicants or developers must use the City'
Section 2	2.0_TOC	Changed: 'Convention for Units and Conversions' 2.02
Section 2	2.0_TOC	Changed: 'Definition of Terms' to 'Defined Terms 2.01'
Section 2	2.0_TOC	Removed: 'Specifications Standards or Methods 2.01A
Section 2	2.0_TOC	Removed: 'References 2.01B
Section 2	2.0_TOC	Removed: 'Supplementary Documents 2.01C
Section 2	2.0_TOC	Removed: 'City Bylaws 2.01D
Section 2	2.01	Renamed: 'Definition of Terms' to 'Defined Terms'
Section 2	2.01_Para (new)	Added: 'Unless otherwise defined a word or expression has the meaning assigned to it in the Local Government Act Community Charter Interpretation Act Water Sustainability Act and Motor Vehicle Act. Where no definition can be found in this document the definition provided in the Subdivision and Development Standards Bylaw and the Zoning Bylaw will apply. (New)'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 2	2.01 .1 (new)	Added: "ANNUAL EXCEEDANCE PROBABILITY (AEP)" is expressed as a ratio or percentage and indicates the probability of a specific event occurring within a given year. This term replaces 'recurrence interval' or 'return period' which can be misleading. For example a '1-in-100-year event' is often misunderstood as an event that happens only once every 100 years. Statistically a 1% AEP (1:100 AEP) event has a 1% probability of occurring in any given year and a 67% probability of occurring at least once within a 100-year period. (New)
Section 2	2.01 .2 redesignated 2.01 .1	Changed: 'the' to 'written' and 'noted' to 'specified'
Section 2	2.01 .3 (rem)	Removed: "DIRECTOR OF ENGINEERING" shall mean the person appointed to the office of Director of Engineering acting either directly or through authorized staff or agents acting severally within the scope of the particular duties entrusted to them.
Section 2	2.01 .3 redesignated 2.01 .2	Changed: "CITY" shall mean a duly authorized representative of the City of Nanaimo.' to "CITY" means the City of Nanaimo.'
Section 2	2.01 .4 (rem)	Removed: "CONSULTANT" shall mean a Professional Engineer acting either directly or through his/her authorized agents acting severally within the scope of the particular duties entrusted to them.'
Section 2	2.01 .4 redesignated 2.01 .6	Changed: 'shall mean the Contractor' to 'means the company'
Section 2	2.01 .5 (rem)	Removed: "CONTRACT DOCUMENTS" or "CONTRACT" shall mean the complete set of documents specifications drawings and addenda incorporated therein as listed in the Table of Contents.
Section 2	2.01 .5 redesignated 2.01 .7	Changed: 'shall mean' to 'means'=>[]
Section 2	2.01 .6 redesignated 2.01 .8	Changed: "ENGINEER" or "DESIGN ENGINEER" shall mean: ' to "ENGINEER" or "DESIGN ENGINEER" see Professional of Record.'
Section 2	2.01 .6 (a) and (b)	Removed: both subsections (a) and (b)
Section 2	2.01 .7 redesignated 2.01 .11	Added: 'City'
Section 2	2.01 .7 redesignated 2.01 .11	Changed: 'shall mean' to 'means'=>[2.01 .11]
Section 2	2.01 .9 (rem)	Removed: "EQUIPMENT" shall mean anything and everything except persons used by the Contractor in performance of the work and except material as defined herein.

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 2	2.01 .9 redesignated 7.04 .3	Added: "“MINOR SYSTEM” shall be is designed to convey the 1:5 AEP design storm. The minor system includes all drainage works that convey detain divert and intercept the minor design runoff including pipes catch basins manholes swales ditches etc. and other appurtenances designed to ultimately discharge into a major watercourse. (REVISE? TBD 2025)
Section 2	2.01 .9 redesignated 7.04 .3	Changed: 'major system' to 'watercourse'
Section 2	2.01 .9 redesignated 7.04 .3	Removed: 'shall be'
Section 2	2.01 .9 redesignated 7.04 .3	Removed: 'year'
Section 2	2.01 .8 (new)	Changed: 'shall the' to 'means'
Section 2	2.01 .10 (rem)	Removed: "“HEREIN” and “HEREOF” and similar expressions wherever used in the Contract Documents shall relate to the whole of the Contract Documents and not to any one (1) paragraph alone unless the context specifically requires it.
Section 2	2.01 .09 (new)	Added: "“OVERLAND FLOW PATH” means a surface water route that forms when heavy rainfall or snowmelt overwhelms the capacity of the drainage works and flows on the surface following existing topography. (New)
Section 2	2.01 .10 (new)	Added: "“PROPERTY OWNER” has the same meaning as the Land Title Act. (New)
Section 2	2.01 .12 (rem)	Removed: "“MATERIAL” or “MATERIALS” shall unless otherwise specified mean anything and everything other than persons or the Contractor's equipment which is manufactured processed or transported to the site or existing on the site and incorporated into the completed works.
Section 2	2.01 .11 (new)	Added: "“PROFESSIONAL OF RECORD” means the Professional responsible for a specific portion of the project plans. Engineer of Record is included within this term. The Professional is an individual who is a practicing professional registrant as defined in Engineers and Geoscientists BC's Bylaws. (New)
Section 2	2.01 .13 (rem)	Removed: "“PROVIDE” shall mean the same as SUPPLY.
Section 2	2.01 .14 (rem)	Removed: "“SUBCONTRACTOR” shall mean any person engaged by the Contractor or another Sub-Contractor to perform or provide part or parts of the work or to supply material intended to be incorporated into the completed works but does not include a worker or a person engage by an architect an engineer or a material supplier.

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 2	2.01 .14 redesignated 7.04 .3	Added: "RAINWATER MANAGEMENT" refers to rainfall runoff source control during frequently occurring events. The term stormwater management is used and is intended to include the scope of rainwater management. (REVISE? TBD 2025)
Section 2	2.01 .15 (rem)	Removed: "SUPPLY" shall mean supply and pay for or provide and pay for.
Section 2	2.01 .15 redesignated 7.04 .3	Added: "STORMWATER MANAGEMENT" is the term traditionally used when referring to managing rainfall runoff based on using design storms and sizing drainage works facilities. (REVISE? TBD 2025)
Section 2	2.01 .16 (rem)	Removed: "WORK" or "WORKS" shall, unless the context otherwise requires, mean the whole of the work, equipment, materials, labour, matters and things required to be done, furnished, and performed by the Contractor under this Contract.
Section 2	2.01 .16 redesignated Subdivision Control Bylaw 1989 No 3260 Part 1 Section 4	Added: 'TRUNK STORM SEWER' means any storm sewer of a 600 mm diameter or greater.
Section 2	2.01A (rem)	Removed: '2.01A SPECIFICATIONS STANDARDS OR METHODS
Section 2	2.01A .1 (rem)	Removed: 'When references to the following capitalized abbreviations are made they refer to Specifications Standards or Methods of the respective Association. Abbreviations listed herein but not mentioned in the specifications shall be disregarded.'
Section 2	2.01A .2 (rem)	Removed: 'The numbers and letters following the abbreviations denote the Association's serial designation for the Specification or Standard to which reference is made. All references to these Specifications Standards or Methods shall in each instance be understood to refer to the latest adopted revision including all amendments.
Section 2	2.02 (new)	Changed: 'CONVENTION FOR UNITS AND CONVERSIONS (REVISE? TBD 2025)'
Section 2	2.02 .1 redesignated 2.01A .3	Changed: 'S.I. units' to 'International System of Units (SIU)'
Section 2	2.02 .2 redesignated 2.01A .4	Changed: 'S.I. Units' to 'SIU '
Section 2	2.02 .2_Table2	Added: 'or psi'
Section 2	2.02 .2_Table2	Changed:: 'l/s' to 'L/s'
Section 2	2.01B (rem)	Removed: '2.01B REFERENCES

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 2	2.01B .1 (rem)	Removed: 'The Manual of Engineering Standards and Specification contains references to standard specifications for testing materials manufacturing installation and design procedures. This section provides the full descriptive title of referenced specifications.
Section 2	2.01B .2 (rem)	Removed: 'All references listed shall be understood to refer to the latest adopted revision including all amendments.
Section 2	2.01B .3 (rem)	Removed: 'All references listed and referred to by the Manual of Engineering Standards and Specifications shall be part of the Manual as far as they are applicable to and not inconsistent with the Manual.
Section 2	2.01B .3_Table (rem)	Removed whole table
Section 2	2.01C (rem)	Removed: '2.01C SUPPLEMENTARY DOCUMENTS
Section 2	2.01C .1 (a) (rem)	Removed: 'City of Nanaimo Steep Slope Development Permit Area Guidelines http://www.nanaimo.ca/assets/Departments/Community~Planning/Publications~and~Forms/SSguidelines.pdf
Section 2	2.01C .1 (b) (rem)	Removed: '(REVISED NOVEMBER 2020)FHWA Manual of Uniform Control Devices http://mutcd.fhwa.dot.gov/pdfs/2003/pdf-index.htm
Section 2	2.01C .1 (c) (rem)	Removed: 'NCHRP Report 672 – Roundabouts an Informational Guide http://www.trb.org/Main/Blurbs/164470.aspx
Section 2	2.01C .1 (d) (rem)	Removed: 'Ministry of Transportation and Infrastructure Manual of Standard Traffic Signs & Pavement Markings http://www.th.gov.bc.ca/publications/eng_publications/electrical/MoST_PM.pdf
Section 2	2.01C .1 (e) (rem)	Removed: 'Motor Vehicle Act Regulations – Division 23 – Traffic Control Devices http://www.bclaws.ca/civix/document/id/complete/statreg/26_58_06
Section 2	2.01C .1 (f) (rem)	Removed: 'BC Hydro Street Light Information Management System (SLIM) https://www.bchydro.com/ex/streetlight/
Section 2	2.01C .1 (g) (rem)	Removed: 'City of Nanaimo Urban Forest Management Strategy https://www.nanaimo.ca/docs/services/home-and-property/ufms-edited-2012-1.pdf
Section 2	2.01C .1 (h) (rem)	Removed: 'BCLNA British Columbia Landscape Standards https://bclna.com/bclna-resource/canadian-landscape-standards/

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 2	2.01C .1 (i) (rem)	Removed: 'City of Nanaimo Invasive Plant Management Strategy' [a]https://www.nanaimo.ca/docs/default-document-library/con-invasive-plant-management-strategy-(final).pdf
Section 2	2.01C .1 (j) (rem)	Removed: 'Nanaimo Transportation Master Plan' [a]https://www.nanaimo.ca/your-government/projects/projects-detail/nanaimo-transportation-master-plan
Section 2	2.01C .1 (k) (rem)	Removed: 'City of Nanaimo Erosion and Sediment Control Guideline' [a]https://www.nanaimo.ca/docs/property-development/soil-removal/11-erosion-sediment-control.pdf
Section 2	2.01C .1 (l) (rem)	Removed: 'Department of Fisheries and Oceans and the Ministry of Environment Land Development Guidelines for the Protection of Aquatic Habitat' [a]http://www.dfo-mpo.gc.ca/Library/165353.pdf
Section 2	2.01C .1 (m) (rem)	Removed: 'BC Traffic Control Manual for Work on Roadways.'
Section 2	2.01C .1 (n) (rem)	Removed: 'TAC Geometric Design Guide for Canadian Roads'
Section 2	2.01C .1 (o) (rem)	Removed: 'Ministry of Transportation and Infrastructure Electrical and Traffic Engineering Manual'
Section 2	2.01C .1 (p) (rem)	Removed: 'BC Building Access Handbook (REVISED MAY 2020)'
Section 2	2.01C .1 (rem)	Removed: '1.1The Manual of Engineering Standards and Specifications contains references to guidelines governances standards and strategies and reports. The intent of the supplemental documents is to provide additional information. Information provided in the supplemental documents does not replace or supersede the MoESS requirements.'
Section 2	2.01D (rem)	Removed: '2.01D CITY BYLAWS'
Section 2	2.01D .1 (a) (rem)	Removed: 'Building Bylaw No. 7224' [a]
Section 2	2.01D .1 (b) (rem)	Removed: 'Crossing Control Bylaw No. 5174'
Section 2	2.01D .1 (c) (rem)	Removed: 'Development Parking Regulations Bylaw No. 7013' [a]
Section 2	2.01D .1 (d) (rem)	Removed: 'Elimination of Dust Emissions Bylaw No. 4896'
Section 2	2.01D .1 (e) (rem)	Removed: 'Flood Prevention Bylaw No. 5105' [a]http://www.nanaimo.ca/ByLaws/ViewBylaw/5105.pdf
Section 2	2.01D .1 (f) (rem)	Removed: 'Management and Protection of Trees Bylaw No. 7126' [a]https://www.nanaimo.ca/docs/services/home-and-property/tree-protection-bylaw-7126.pdf

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 2	2.01D .1 (g) (rem)	Removed: 'Noise Control Bylaw No. 4750 http://www.nanaimo.ca/UploadedFilesPath/Bylaws/4750.pdf
Section 2	2.01D .1 (h) (rem)	Removed: 'Official Community Plan Bylaw No. 6500 https://www.nanaimo.ca/property-development/community-planning-land-use/community-plans/official-community-plan
Section 2	2.01D .1 (i) (rem)	Removed: 'Soil Removal and Depositing Regulation Bylaw No. 1747 https://www.nanaimo.ca/ByLaws/ViewBylaw/1747.pdf
Section 2	2.01D .1 (j) (rem)	Removed: 'Sewer Regulation and Charge Bylaw No. 2496 http://www.nanaimo.ca/ByLaws/ViewBylaw/2496.pdf
Section 2	2.01D .1 (k) (rem)	Removed: 'Storm Sewer Regulation and Charge Bylaw No. 3808 https://www.nanaimo.ca/ByLaws/ViewBylaw/3808.pdf
Section 2	2.01D .1 (l) (rem)	Removed: 'Traffic and Highways Regulation Bylaw 1993 No. 5000 https://www.nanaimo.ca/bylaws/ViewBylaw/5000.pdf (REVISED MAY 2020)
Section 2	2.01D .1 (m) (rem)	Removed: 'Waterworks Rate and Regulation Bylaw No. 7004 https://www.nanaimo.ca/ByLaws/ViewBylaw/7004.pdf
Section 2	2.01D .1 (n) (rem)	Removed: 'Zoning Bylaw No. 4500 http://www.nanaimo.ca/EN/main/departments/Current-Planning/Zoning.html
Section 2	2.01D .1 (rem)	Removed: 'The Manual of Engineering Standards and Specifications shall be used in conjunction with the most current City bylaws that impact construction.
Section 3	3.0 TOC	Changed: 'Facilities' to 'Systems'
Section 3	3.0 TOC	Removed: 'REVISED JULY 2022'
Section 3	3.01.1 (a)	Changed: 'City of Nanaimo' to 'City'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 3	3.01.1 (a)	Changed: 'Adequate drainage facilities in the form of ditches, culverts, or other conduits shall be installed, as found necessary, to maintain these roads. In the construction of access roads, existing drainage facilities, natural or otherwise, shall, not pose properties outside the working area and such facilities shall, unless otherwise provided elsewhere in the specifications, be restored to their original condition as far as is practical to do so on possible upon completion of the work.' to 'Adequate drainage system in the form of ditches, culverts, or other conduits are to be installed to drain these access roads. During the construction of access roads, existing drainage works, whether natural or constructed, must not pose a hazard to properties outside the work area or harm the watercourse environment. Expect that restoration to original condition will be required upon completion of works. Unless specified otherwise, these facilities should be restored to their original condition as much as possible upon completion of the work.'
Section 3	3.01.1 (c)	Added: 'Site access requires erosion and sediment control measures as per existing bylaws, such as Storm Sewer Regulation and Fee Bylaw and Development Approval Information Bylaw.'
Section 3	3.01.2 (a)	Changed: 'shall' to 'are to'
Section 3	3.01.2 (a)	Changed: 'The use of these facilities by persons engaged in the work shall be strictly enforced.' to 'Workers will use these facilities.'
Section 3	3.01.2 (a)	Removed: 'shall be'
Section 3	3.01.2 (b)	Changed: 'shall' to 'are to', 'work' to 'Works' & 'Owner' to 'City Engineer'
Section 3	3.02.1	Changed: 'shall' to 'must' & 'All' to 'These include all'
Section 3	3.02.2	Removed: 'should'
Section 3	3.03.1	Changed: 'shall be subject' to 'must comply'
Section 3	3.03.2	Changed: 'shall' to 'must'
Section 3	3.04.1	Changed: 'shall' to 'are to' & removed 'shall'
Section 3	3.04.2	Changed: 'shall be' to 'is'
Section 3	3.04.2	Changed: 'shall' to 'will'
Section 3	3.04.2	Changed: 'will not be permitted' to 'is prohibited'
Section 3	3.04.2	Added: 'roadway'
Section 3	3.04.2	Changed: 'his' to 'their'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 3	3.05 .1	Changed: 'shall' to 'will'
Section 3	3.05.2	Changed: 'Owner' to 'City'
Section 3	3.06 .1	Changed: 'shall be in strict conformance with but shall not be limited to' to 'must conform with but not be limited to'
Section 3	3.06 .1 (c)	Changed: 'City of Nanaimo' to 'City' & 'workmen' to 'workers'
Section 3	3.06.1 (d)	Added: 'workers'
Section 3	3.06.1 (f)	Changed: 'If the City of Nanaimo, at any time, deems it necessary, a workman representative City workforce from the Operations Division, City of Nanaimo, will be stationed at the work site to ensure that no damage is done to existing services.' to 'If the City , at any time, deems it necessary, a representative from City forces, will be stationed at the work site to ensure that no damage is done to existing services.'
Section 3	3.20 .1	Changed: 'shall be' to 'is'
Section 3	3.21 .1	Changed: 'Unless authorization from the Engineer is received for their removal underground and surface structures encountered during construction shall be protected from damage. In the event of damage resulting from the construction operation they shall be repaired or replaced at the Contractor's sole expense to a condition which is at least the equivalent of that which existed prior to construction.' to ' Unless removal is approved by the City Engineer underground and surface structures encountered during construction must be protected from damage. If damage occurs as a result of construction activities the Contractor is responsible for repairing or replacing the affected structures at their own expense to a condition at least equivalent to that which existed prior to construction.
Section 3	3.22 .1	Changed: 'shall' to 'must'
Section 3	3.22 .1	Changed: 'are' to 'is'
Section 3	3.22 .1	Changed: 'elimination' to 'eliminate'
Section 3	3.22 .2	Changed: 'shall' to 'must'
Section 3	3.22.3	Added: 'City'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 3	3.23 .1	Changed: 'Bridges walks or other temporary facilities shall be provided as may be necessary to ensure that these controls or warning systems are free for use in their normal manner at all times during construction.' to 'The Contractor is required to provide bridges, walks or other temporary facilities as may be necessary to ensure these controls or warning systems remain fully accessible and usable in their normal manner at all times during construction.'
Section 3	3.23 .1	Changed: 'shall not be obstructed or made inaccessible at any time by the construction work.' to 'must remain clear of obstructions and accessible at all times during construction.'
Section 3	3.24.1	Changed: 'authorities responsible' to 'authority having jurisdiction'
Section 3	3.24.1	Changed: 'recognized authorities controlling these utilities' to 'authority having jurisdiction'
Section 3	3.24 .1	Changed: 'shall' to 'are to'
Section 3	3.24 .1	Changed: 'shall' to 'must'
Section 3	3.24 .2	Changed: 'If the Contractor after receiving approval of the responsible authorities is to temporarily close off an existing utility he unless otherwise authorized by the Engineer notify individual users of the utility at least forty-eight (48) hours prior to the time of shut-off.' to 'After receiving approval of the authority having jurisdiction if the Contractor is to temporarily close off an existing utility they must notify individual users of the utility at least forty-eight (48) hours prior to the time of shut-off unless otherwise approved by the City Engineer.'
Section 3	3.24 .2	Changed: 'shall be' to 'is'
Section 3	3.25 .1	Changed: 'shall' to 'must'
Section 3	3.25.4	Added: 'City' x2
Section 3	3.26	Changed: 'DRAINAGE FACILITIES' to 'DRAINAGE SYSTEMS'
Section 3	3.26.1	Changed: 'structures' to 'works'
Section 3	3.26.1	Changed: 'structure' to 'works'
Section 3	3.26.1	Changed: 'shall provide' to 'will install'
Section 3	3.26 .1	Changed: 'shall' to 'will'
Section 3	3.26 .2	Changed: 'shall be replace on line and grade' to 'will be replaced as per design'
Section 3	3.26.2	Added: 'this manual'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 3	3.26.2	Removed: 'City of Nanaimo Standards and Specification'
Section 3	3.26 .3	Changed: 'No chlorinated water shall be discharged into storm drainage facilities without prior approval from the City Engineer' to 'Discharging chlorinated water is prohibited into the storm drainage system without prior approval from the City Engineer'
Section 3	3.26 .4	Changed: 'shall take full responsibility' to 'is responsible'
Section 3	3.26.4	Changed: 'controlling erosion and sediment transfer by utilizing the guidelines contained in the handbook entitled, "Land Development Guidelines for the Protection of Aquatic Habitat", by the Department of Fisheries and Oceans and Ministry of Environment, to prevent discharge of sediment into City stormwater management systems and environmentally sensitive areas. It is incumbent for the contractor to acquire and be familiar with these guidelines.' to 'erosion and sediment control measures as per existing bylaws, such as Storm Sewer Regulation and Fee Bylaw and Development Approval Information Bylaw.'
Section 3	3.27.2	Changed: '2.5 cm in dia' to '25 mm in diameter'
Section 3	3.60.1	Added: 'works'
Section 3	3.60.1	Changed: 'Municipal Rights' to 'Right-of-Way'
Section 3	3.60.1 (a)	Changed: 'BC Traffic Control Manual for Work on Roadways' to 'BC 2020 Traffic Management Manual for Work on Roadways'
Section 3	3.60.1 (c)	Removed: 'of'
Section 3	3.60 .1 (d)	Changed: 'shall' to 'must'
Section 3	3.60.1 (e)	Changed: 'shall be' to 'are'
Section 3	3.60.1 (g)	Changed: 'road' to 'roadway'
Section 3	3.60 .1 (h)	Changed: 'The length of the worksite shall be directly proportional to the amount of work that a contractor reasonably expects to complete in any one shift.' to 'The length of the worksite is proportional to the Works a contractor expects to complete in any one shift.'
Section 3	3.60.1 (i)	Changed: 'shall' to 'must' & 'work is' to 'Works are'
Section 3	3.60 .2 (a)	Changed: 'shall' to 'must'
Section 3	3.60.2 (d) (i)	Changed: 'Control' to 'Management'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 3	3.60.3	Changed: '(local roads roadways, lanes ways, path ways, pathways, parks and other Municipal facilities) shall include, but not be limited to, the following:' to '(local roadways, lanes, pathways, parks and other Municipal facilities) include, but not be limited to, the following:'
Section 3	3.60.3 (c)	Changed: 'contract' to 'contact'
Section 3	3.60.3 (g)	Changed: 'BC Traffic Control Manual for Work on Roadways' to 'BC 2020 Traffic Management Manual for Work on Roadways'
Section 3	3.60.3 (i)	Changed: 'road' to 'street'
Section 3	3.60 .4	Changed: 'major roads' to 'arterial streets'
Section 3	3.60.4	Changed: 'roads' to 'streets'
Section 3	3.60.4	Added: 'collector streets'
Section 3	3.60.4	Removed: '(adjacent school zones, Municipal facilities)'
Section 3	3.60.4 (a)	Changed: 'Professional Engineer' to 'Qualified Registered Professional'
Section 3	3.60.4 (a)	Changed: 'BC Traffic Control Manual for Work on Roadways' to 'BC 2020 Traffic Management Manual for Work on Roadways'
Section 3	3.60.4 (c)	Changed: 'road' to 'street' x2
Section 3	3.60.4 (d)	Changed: 'chapter 34' to 'Chapter 45'
Section 3	3.60.4 (d)	Changed: 'BC Traffic Control Manual for Work on Roadways' to 'BC 2020 Traffic Management Manual for Work on Roadways'
Section 3	3.60.5	Changed: 'that work is' to 'for Works'
Section 3	3.60.6 (b)	Changed: 'Transportation Master' to 'Traffic Management'
Section 3	3.60.6 (c)	Removed: 'needed'
Section 3	3.60.7 (c)	Added: 'be'
Section 3	3.60.7 (d)	Changed: 'shall' to 'will' & 'road' to 'street' x 2
Section 3	3.60.7 (e)	Changed: 'shall' to 'must'
Section 3	3.60.7 (f)	Changed: 'road' to 'roadway'
Section 3	3.60.7 (g)	Changed: 'implement' to 'implementing' & 'contractors' to 'contractor's'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 3	3.60.7 (h)	Changed: 'Where road closures/detours affect private residences or and, the contractor shall provide five (5) days notice to all properties affected by the closure and all properties for the length of any detours. Letters are not to be issued prior to approval of the closure/detour.' to 'Where roadway closures/detours affect private residences or businesses, the contractor shall provide written notice five (5) days in advance to all property owners and business owners affected by the closure or detours. A draft of the written notice needs to be accepted by the City prior to distribution.'
Section 4	4.0_TOC	Changed: Fish Habitat Gravel' to '-NOT USED- (REVISE? TBD 2025 Moved to Section 9.0)'
Section 4	4.0_TOC	Added: 'Abandon Manhole Detail' and 'T-12'
Section 4	4.0_TOC	Added: 'Adandon Valve Detail' and 'T-13'
Section 4	4.01 .2	Removed: 'man-made'
Section 4	4.04 .1	Changed: 'Engineer' to 'City Engineer'
Section 4	4.04 .2	Changed: 'Where, in the opinion of the Engineer, the existing pavement is in poor condition, pavement it may be cut by hand, mechanical means, or trenching equipment' to 'Where the existing pavement is in poor condition, it may be cut by hand, mechanical means, or trenching equipment, following approval from the City Engineer.'
Section 4	4.05 .2	Changed: 'Where directed by the Engineer for' to 'For'
Section 4	4.05 .3	Changed: 'tress' to 'trees'
Section 4	4.05 .3	Removed: 'If in the opinion of the Engineer removed trees are too large to be replaced the Contractor shall not be responsible for his/her replacement unless otherwise noted on the construction drawings.'
Section 4	4.05 .5	Changed: 'Engineer' to 'City Engineer'
Section 4	4.05 .7	Added: 'erosion and'
Section 4	4.06 .2	Changed: 'Engineer' to 'Professional of Record' x2
Section 4	4.07 .6	Changed: 'Engineer' to 'Professional of Record'
Section 4	4.07A .2	Changed: 'Engineer' to 'Professional of Record'
Section 4	4.07A .3	Changed: 'Engineer' to 'City Engineer'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
		Changed: 'When blasting is required during excavation, the Contractor shall exercise extreme care and shall limit the use of explosives to such charges that shall not cause damage to existing pipelines, other utilities or private property. Blasting shall be done by experienced persons, qualified for the work. The compliance with regulations regarding the use and storage of explosives shall be the responsibility of the Contractor and he/she shall be responsible for any accidents or injury, loss and/or damage which might occur as a result of his/her blasting.' to 'When blasting is required during excavation, the Contractor must exercise extreme care and must not damage existing pipelines, other utilities, or private property. Blasting must be done by experienced persons, qualified for the work. Compliance with regulations regarding the use and storage of explosives is the responsibility of the Contractor. The Contractor is responsible for any accidents or injury, loss and/or damage that might occur as a result of blasting.'
Section 4	4.07B .2 (b)	
Section 4	4.07B .2 (c)	Changed: 'Engineer' to 'City Engineer'
Section 4	4.07B .2 (c)	Changed: 'directed' to 'approved'
Section 4	4.07B .2 (e)	Changed: 'acceptable to the Engineer' to 'approved by the City Engineer'
Section 4	4.09 .1	Removed: 'man-made'
Section 4	4.09 .2	Changed: 'Engineer' to Professional of Record'
Section 4	4.09A .1	Changed: 'Engineer' to 'City Engineer'
Section 4	4.09A .2	Changed: 'directed' to 'approved'
Section 4	4.09A .2	Changed: 'Engineer' to 'City Engineer'
Section 4	4.09B .1	Changed: 'Engineer' to 'City Engineer'
Section 4	4.10 .1	Changed: 'Engineer' to 'City Engineer'
Section 4	4.10 .2	Changed: 'road' to 'roadway' x2
Section 4	4.10 .2	Changed: 'road' to 'street'
Section 4	4.10 .3	Changed: 'City of Nanaimo' to 'City'
Section 4	4.10 .3	Changed: 'road' to 'roadway'
Section 4	4.10 .4	Changed: 'Engineer' to 'City Engineer'
Section 4	4.11 .2	Changed: 'City of Nanaimo' to 'City'
Section 4	4.11 .2	Changed: 'owner of the property' to 'property owner'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 4	4.11 .4	Changed: 'City of Nanaimo' to 'City'
Section 4	4.11 .4	Changed: 'City of Nanaimo' to 'City Inspector'
Section 4	4.13 .1	Changed: 'approval is received from the Engineer' to 'approved by the Professional of Record'
Section 4	4.14 .2	Changed: Engineer' to 'Professional of Record'
Section 4	4.14 .2	Changed: 'Engineer' to 'Qualified Registered Professional'
Section 4	4.14 .2 (a)	Changed: 'drainrock' to 'drain rock'
Section 4	4.14 .2 (a)	Changed: Engineer' to 'Professional of Record'
Section 4	4.14 .2 (c)	Changed: Engineer' to 'Professional of Record'
Section 4	4.15 .1	Changed: 'Engineer' to 'City Engineer'
Section 4	4.15 .1	Changed: 'subject to the approval of the' to 'approved by'
Section 4	4.16 .3	Changed: 'Engineer' to 'City Engineer'
Section 4	4.17 .2	Changed: 'Engineer' to 'Professional of Record'
Section 4	4.17 .3	Changed: 'drainrock or native material' to 'clear crush or pea gravel.'
Section 4	4.17 .3	Changed: 'Engineer' to 'City Engineer'
Section 4	4.18 .6	Changed: 'Engineer' to 'City Engineer'
Section 4	4.19 .2 (d)	Changed: 'Engineer' to 'Professional of Record'
Section 4	4.19 .3	Changed: 'traveled' to 'travelled'
Section 4	4.19 .3 (a)	Changed: 'traveled' to 'travelled'
Section 4	4.19 .3 (b)	Changed: 'traveled' to 'travelled'
Section 4	4.19 .3 (c)	Changed: Added reference link
Section 4	4.19 .3 (c)	Changed: 'traveled' to 'travelled'
Section 4	4.19 .4	Changed: 'traveled' to 'travelled'
Section 4	4.19 .4	Changed: 'untraveled' to 'untravelled'
Section 4	4.19 .4 (a)	Changed: 'traveled' to 'travelled'
Section 4	4.19 .4 (a)	Changed: 'untraveled' to 'untravelled'
Section 4	4.19 .4 (b)	Changed: 'traveled' to 'travelled'
Section 4	4.19 .4 (b)	Changed: 'untraveled' to 'untravelled'
Section 4	4.24 .2 (f)	Changed: 'Engineer' to 'Professional of Record'
Section 4	4.24 .5 (a)	Changed: 'Engineer' to 'City Engineer'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 4	4.24 .5 (b)	Changed: 'Engineer' to 'City Engineer'
Section 4	4.24 .5 (f)	Changed: 'authorized by the Engineer' to 'approved by the Professional of Record'
Section 4	4.26 (moved to 9.35)	Removed: 'Fish Habitat Gravel'
Section 4	4.26 .1 (moved to 9.35 .1)	Removed: 'Gravel shall be composed of inert, non-fractured smooth washed aggregate.'
Section 4	4.26 .2 (moved to 9.35 .2)	Removed: 'Gradation:'
Section 4	4.27 .1 (b)	Changed: 'Engineer' to 'City Engineer'
Section 4	4.27 .1 (d)	Changed: 'Engineer' to 'City Engineer'
Section 4	4.27 .1 (e)	Changed: 'Engineer' to 'City Engineer'
Section 4	4.27 .2	Changed: 'traveled' to 'travelled'
Section 4	4.27 .2 (a)	Changed: 'traveled' to 'travelled'
Section 4	4.27 .2 (a) Table	Changed: 'treamtmet' to 'treatment'
Section 4	4.27 .3 (b)	Changed: 'Engineer' to 'Professional of Record'
Section 4	4.27 .4 (a)	Changed: 'untraveled' to 'untravelled'
Section 4	4.27 .4 (c)	Changed: 'Engineer' to 'City Engineer'
Section 4	4.27 .4 (d)	Changed: 'Engineer' to 'City Engineer'
Section 4	4.27 .4 (h)	Changed: 'Restore landscaped areas' changed to 'Surface restoration in statutory right-of-way'
Section 4	4.27 .4 (i)	Changed: 'Engineer' to 'City Engineer'
Section 4	4.27 .4 (i)	Changed: 'owner of property' to 'property owner'
Section 4	4.27 .4 (i)	Added: 'property'
Section 4	4.28 .3	Changed: 'Engineer' to 'City Engineer'
Section 4	4.28 .3	Changed: 'streets' to 'roadway'
Section 4	4.28 .4	Changed: 'road' to 'roadway'
Section 4	4.29 .1	Added: 'approved by City Engineer'
Section 4	4.29 .3	Changed: 'traveled' to 'travelled'
Section 4	4.29 .3	Changed: 'Engineer' to 'City Engineer'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 4	4.29 .4 (b)	Added: 'Refer to Section 4.29.5(a) for the maximum time allowable prior to permanent asphaltic concrete restoration. If the temporary cold mix is raveling, the Contractor has five calendar (5) days to provide a suitable remediation plan. Failure to provide the plan may result in City forces completing the work and recovering the costs.'
Section 4	4.29 .4 (b)	Changed: 'Engineer' to 'City Engineer'
Section 4	4.29 .4 (d)	Changed: 'Engineer' to 'City Engineer'
Section 4	4.29 .5 (a)	Changed: 'unless is approved by the Engineer' to 'unless an extension is approved by the City Engineer'
Section 4	4.29 .5 (f)	Added: 'and Section 12.45'
Section 4	4.29 .5 (f)	Changed: 'shall' to 'must'
Section 4	4.29 .5 (h)	Added: 'Attention must be given to the atmospheric temperature in accordance with Section 12.47.1'
Section 4	4.29 .5 (i)	Added: 'Acceptance is in accordance with Asphaltic Concrete Acceptance Requirements - Section 12.51'
Section 4	4.29 .5 (i)	Changed: 'shall be smooth and match adjacent pavement grades and be free of humps depressions or ridges and within 6 mm of the existing pavement grades when measured with a 3.0 m straightedge but not uniformly high or low' to 'must be free from bumps depressions or other irregularities and must be within 6 mm of the design grade and cross-section but not uniformly high or low when measured with a 3.0 m straight edge in any direction'
Section 4	4.29 .5 (j)	Changed: directed to approved
Section 4	4.29 .5 (j)	Changed: 'Engineer' to 'City Engineer'
Section 4	4.29 .5 (k)	Added: new subclause
Section 4	4.29 .5 (k)	Added: 'The City recognizes there are times when a gravel surface on an existing road must be capped prior to the seasonal pavement plant shutdown, but atmospheric temperature in accordance with Section 12.47.1 [☞] cannot be met. The City Engineer may accept the installation of this 50 mm base lift of asphalt under the following conditions:'
Section 4	4.29 .5 (k) (i)	Added: new subclause

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 4	4.29 .5 (k) (i)	Added: 'The base lift is tested and meets the specified density standards accordance with Asphaltic Concrete Acceptance Requirements - Section 12.51.4 '
Section 4	4.29 .5 (k) (ii)	Added: 'If the base lift does not meet the specified density standards a remediation strategy submitted Qualified Registered Professional for review and approval by the City Engineer.'
Section 4	4.29 .5 (k) (ii)	Added: new subclause
Section 4	4.29 .5 (k) (ii) 1.	Added: new subclause
Section 4	4.29 .5 (k) (ii) 1.	Added: 'One remediation attempt may be approved the following season prior to the installation of a minimum 35mm surface lift.'
Section 4	4.29 .5 (k) (ii) 2.	Added: 'If the remediation attempt is not successful subsequent remediation attempts will not be approved and the base lift will be required to be removed and replaced.'
Section 4	4.29 .5 (k) (ii) 2.	Added: new subclause
Section 4	4.31 .1	Changed: 'City of Nanaimo' to 'City'
Section 4	Std.Dwg. T-4.A	Changed to (in label): 'May 2020' to 'Edition 15'
Section 4	Std.Dwg. T-4.A	Removed: 'NOV 2016'
Section 4	Std.Dwg. T-4.A	Changed to (in label): 'OF EXISTING A.C. PERMITS,' TO 'EXISTING ASPHALT THICKNESS ALLOWS,'
Section 4	Std.Dwg. T-4.A	Added to (in label): 'USE AN'
Section 4	Std.Dwg. T-4.B	Changed to (in label): 'May 2020' to 'Edition 15'
Section 4	Std.Dwg. T-4.B	Removed: 'NOV 2016'
Section 4	Std.Dwg. T-4.B	Added to (Note 10): 'PAVEMENT RESTORATION AREAS OF NEW ASPHALT (5 YEARS OR LESS) WILL REQUIRE FULL LANE WIDTH ASPHALT REPLACEMENT AND UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.'
Section 4	Std.Dwg. T-5	Changed to (in label): 'May 2020' to 'Edition 15'
Section 4	Std.Dwg. T-5	Removed: 'MAY 2020'
Section 4	Std.Dwg. T-5	Removed: ' USE OF PETROLATUM TAPE WRAPPING WHERE MINISTRY OF HEALTH'S MINIMUM WATER/SEWER SEPARATION OFFSET CANNOT BE MET, REQUIRES APPROVAL BY THE MINISTRY OF HEALTH.'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 4	Std.Dwg. T-5	Added to (in label): 'WHERE WATER AND SEWER SEPARATION OFFSETS CANNOT MEET SECTION 5.10.3, APPLY PROTECTION MEASURES REQUIRED TO OBTAIN PROVINCIAL PERMIT APPROVAL (SEE SECTION 5.10.4)'
Section 4	Std.Dwg. T-6	Changed to (in label): 'May 2020' to 'Edition 15'
Section 4	Std.Dwg. T-6	Removed: 'NOV 2016'
Section 4	Std.Dwg. T-6	Changed (in label): 'Engineer' to 'Professional of Record'
Section 4	Std.Dwg. T-6	Removed (Note 2): 'USE OF CONCRETE BEDDING OR HAUNCHING SHALL NOT BE PERMITTED ON PVC OR OTHER FLEXIBLE PIPE MATERIALS.'
Section 4	Std.Dwg. T-6	Changed (Note 3): now '2'
Section 4	Std.Dwg. T-7	Changed to (in label): 'May 2020' to 'Edition 15'
Section 4	Std.Dwg. T-7	Removed: 'NOV 2016'
Section 4	Std.Dwg. T-7	Removed (in label): 'TYPE 66'
Section 4	Std.Dwg. T-7	Added (Note 6): 'ONLY PRODUCTS LISTED IN THE CITY OF NANAIMO APPROVED PRODUCTS LISTS WILL BE ACCEPTED FOR INSTALLATION.'
Section 4	Std.Dwg. T-8	Changed to (in label): 'May 2020' to 'Edition 15'
Section 4	Std.Dwg. T-8	Removed: 'MAY 2020'
Section 4	Std.Dwg. T-8	Added (Note 5) : 'DRAIN'
Section 4	Std.Dwg. T-8A	Changed to (in label): 'May 2020' to 'Edition 15'
Section 4	Std.Dwg. T-8A	Removed: 'NOV 2016'
Section 4	Std.Dwg. T-8A	Added (Note 5) : 'DRAIN'
Section 4	Std.Dwg. T-8A	Removed (in label): 'SDR 28 PVC' x3
Section 4	Std.Dwg. T-10	Changed to (in label): 'May 2020' to 'Edition 15'
Section 4	Std.Dwg. T-10	Removed: 'MAY 2020'
Section 4	Std.Dwg. T-10	Changed (Note 2): 'FOR STREET LIGHT OFFSETS LESS THAN 3.00M, HYDRANTS AND STREET LIGHT POLES SHALL NOT BE LOCATED WITH UNDERGROUND ELECTRICAL SERVICES' TO 'REFER TO SECTION 5.07.7 FOR HYDRANT OFFSETS.'
Section 4	Std.Dwg. T-11	Changed to (in label): 'May 2020' to 'Edition 15'
Section 4	Std.Dwg. T-11	Removed: 'NOV 2016'
Section 4	Std.Dwg. T-11	Added (Note 2): 'ONLY PRODUCTS LISTED IN THE CITY OF NANAIMO APPROVED PRODUCTS LIST WILL BE ACCEPTED FOR INSTALLATION'
Section 4	Std.Dwg. T-11	Added (Note 3): 'CONTROLLED DENSITY FILL AS PER SECTION 4.24'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 4	Std.Dwg. T-12	Added (in label): 'Engineering Standards & Specifications Edition 15'
Section 4	Std.Dwg. T-12	Removed: '2018-08-02'
Section 4	Std.Dwg. T-12	Added : 'NOTES'
Section 4	Std.Dwg. T-12	Added (Note 1): 'ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SHOWN'
Section 4	Std.Dwg. T-12	Added (Note 2): 'ONLY PRODUCTS LISTED IN THE CITY OF NANAIMO APPROVED PRODUCTS LIST WILL BE ACCEPTED FOR INSTALLATION.'
Section 4	Std.Dwg. T-12	Added (Note 3): 'CONCRETE AS PER SECTION 4.21 AND SECTION 11.31'
Section 4	Std.Dwg. T-12	Added (Note 4): 'LANDSCAPING AS PER SECTION 14.0.'
Section 4	Std.Dwg. T-12	Added (Note 5): 'REFER TO STD. DWG. T-4 AND T-4A, SECTION 4.28 AND 4.29 FOR PAVEMENT RESTORATION DETAILS'
Section 4	Std.Dwg. T-12	Added (Note 6): 'PAVED ROADWAY STRUCTURE AS PER SECTION 9.0 BASED ON STREET CLASSIFICATION.'
Section 4	Std.Dwg. T-13	Removed: '2019-01-14'
Section 4	Std.Dwg. T-13	Added (in label): 'Engineering Standards & Specifications Edition 15'
Section 4	Std.Dwg. T-13	Added (Note 1): 'ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SHOWN'
Section 4	Std.Dwg. T-13	Added (Note 2): 'ONLY PRODUCTS LISTED IN THE CITY OF NANAIMO APPROVED PRODUCTS LIST WILL BE ACCEPTED FOR INSTALLATION.'
Section 4	Std.Dwg. T-13	Added (Note 3): 'CONCRETE AS PER SECTION 4.21 AND SECTION 11.31'
Section 4	Std.Dwg. T-13	Added (Note 4): 'LANDSCAPING AS PER SECTION 14.0.'
Section 4	Std.Dwg. T-13	Added (Note 5): 'REFER TO STD. DWG. T-4 AND T-4A, SECTION 4.28 AND 4.29 FOR PAVEMENT RESTORATION DETAILS'
Section 4	Std.Dwg. T-13	Added (Note 6): 'PAVED ROADWAY STRUCTURE AS PER SECTION 9.0 BASED ON STREET CLASSIFICATION.'
Section 4	Std.Dwg. T-13	Added : 'NOTES'
Section 5	5.0 TOC	Removed: (REVISED MAY 2020)
Section 5	5.0 TOC	Added: 'Property' to Section 5.71
Section 5	5.0 TOC	Added: 'Water Service Connection Installation Schematic (NEW dwg tbd 2025) W-0
Section 5	5.0 TOC	Changed [drawing title]: 'Water Service Connection Installation Schematic' to 'Water Service Connection and Water Meter Installation Schematic'
Section 5	5.0 TOC	Added (drawing title): '25mm'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 5	5.0 TOC	Added (drawing title): '38mm and 50mm Water Service Connection (NEW DWG TBD 2025)' and 'W-1A'
Section 5	5.0 TOC	Added (drawing title): '38mm and 50mm Water Meter (NEW DWG TBD 2025)' and 'W-1B'
Section 5	5.0 TOC	Changed: '150 dia. - 300 dia.' to '150Ø - 300Ø'
Section 5	5.0_TOC	Changed: 'Touch Read' to 'Radio Read'
Section 5	5.0_TOC	Added: 'or'
Section 5	5.0_TOC	Added: 'or' and Changed: '(100Ø dia. - 250 dia.)' to '(75Ø - 250Ø)'
Section 5	5.0_TOC	Removed: ' Domestic Water Meter - Piping Layout (75Ø dia. - 250Ø dia.)'
Section 5	5.0_TOC	Changed: 'Domestic Water Meter Piping Layout and Meter Installation (38Ø dia. - 50Ø dia.)' to '25 mm to 50 mm Water Service with Fire Line'
Section 5	5.0 TOC	Changed: '100 dia. - 250 dia.' to '100Ø - 250Ø'
Section 5	5.0_TOC	Removed: 'MR Type'
Section 5	5.01 .1	Changed: 'Provincial Health' to 'Provincial Ministry of Health'
Section 5	5.01A .1 (a) (i)- (iii) (new)	Added: Subsections (i) to (iii)
Section 5	5.01A .1 (b) (i) (new)	Added: Subsections (i)
Section 5	5.01A .1 (c) (i)- (vi) (new)	Added: Subsections (i) to (vi)
Section 5	5.01A .1 (c) (i)	Removed: '1999 edition'
Section 5	5.01A .1 (c) (ii)	Added: 'Where applicable the maximum allowable reduction to the calculated fire flow shall not exceed fifty percent (50%) as determined using the methodology prescribed in Appendix H3 – Fire Flow Calculation Sheet. All Fire Underwriters Survey (FUS) calculations must be completed in accordance with the procedures and format specified in Appendix H3.'
Section 5	5.01A .1 (c) (iii)	Removed: 'The maximum allowable reduction to a calculated...'
Section 5	5.01A .1 (c) (iv)	Removed: 'of Nanaimo's'
Section 5	5.01A .1 (c) (v)	Changed: Changed: '75 l/s' to '85 L/s'
Section 5	5.01A .1 (c) (vi)	Changed: 'developer' to 'applicant'
Section 5	5.01A .2_Table	Changed: '75 l/s' to '85 L/s' x2
Section 5	5.01A .2_Table	Changed: 'Duplex Residential' to 'Two Unit Residential'
Section 5	5.01A .2_Table	Changed: 'Townhouse' to 'Low Density'
Section 5	5.01A .2_Table	Changed: '90 l/s' to '130 l/s'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 5	5.01A .2_Table	Changed: '75/ 175' to '85/ 175'
Section 5	5.01A .2_Table	Changed: 'Rural Resource' to ' Semi-Rural'
Section 5	5.02	Removed: '(REVISED MAY 2020)'
Section 5	5.02A	Removed: '(REVISED MAY 2020)'
Section 5	5.03 .1	Changed: 'City of Nanaimo's' to 'City's'
Section 5	5.03 .1 Table	Changed: 'family' to 'unit'
Section 5	5.03 .1 Table	Removed: 'Family'
Section 5	5.03 .1 Table	Added: 'Industrial & Commercial (high users like brewery or fish hatchery)' and 'TBD'
Section 5	5.05 .1 (a)	Changed: 'at the discretion of' to 'by'
Section 5	5.05 .1 (b)	Changed: 'dia.' to 'diameter'
Section 5	5.05 .1 (b)	Changed: 'requirements. Minimum' to 'requirements and minimum'
Section 5	5.05 .1 (c)	Changed: 'dia.' to 'diameter.' Split up to create new subsection (d)
Section 5	5.05 .1 (d) new	Moved: 'No flushout shall be connected to a sewer' to 5.15.6
Section 5	5.05 .1 (f)	Changed: 'dia.' to 'diameter'
Section 5	5.05 .1 (f)	Moved: 'When an existing watermain...' & 'When a valve is abandoned...' to 5.56.8
Section 5	5.05A .1	Changed: 'Engineer' to Professional of Record'
Section 5	5.06	Entire section has been reconfigured with subsections and rewording
Section 5	5.07 .1	Added: 'diameter'
Section 5	5.07 .1	Changed: '150 mm' to '200 mm'
Section 5	5.07 .2	Changed: 'in accordance with' to 'as per'
Section 5	5.07 .3 (b) removed	Removed (b)
Section 5	5.07 .3 (c) redesignated to (b)	Redesignated: 'c' to '(b)'
Section 5	5.07 .3 (c)	Removed: 'in commercial industrial institutional and multi family residential zones'
Section 5	5.07. 4 (a)	Changed: 'lead' to 'line' x3
Section 5	5.07. 4 (b)	Changed: 'upstream' to 'uphill'
Section 5	5.07 .6	Changed: 'shall be located as per the offsets shown on the Standard Drawings in Section 8.0 -- Transportation [☐⇒] ...' to 'locations are shown on design drawings and Professional of Record must consider the following minimum offsets in the placement of hydrants:'
Section 5	5.07 .6 (a) to (e) new	Added: 'subsections a- e'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 5	5.08 .1	Changed: '3' to '4' and '2' to '3'
Section 5	5.08 .2	Changed: 'dia.' to 'diameter'
Section 5	5.09 .1	Changed: 'dia.' to 'diameter' and 'Design Engineer' to Professional of Record'
Section 5	5.09 .1 (a)	Changed: 'dia.' to 'diameter'
Section 5	5.09 .2	Changed: 'larger than 200 mm dia.' to '300 mm diameter and larger'
Section 5	5.09 .4 (b)	Changed: 'Blow offs' to 'Flush-outs'
Section 5	5.09 .4 (g)	Changed: 'Design Engineer' to 'Professional of Record'
Section 5	5.10 .3	Added: 'Ministry of' and 'in Section 8.0- Transportation' Changed: 'Department' to 'regulations'
Section 5	5.10A .5	Added: 'Fire line and fire hydrants within private property are subject to Fire Protection and Life Safety Regulation Bylaw No. 7108 and the design is to be reviewed by the City.'
Section 5	5.10A .6 redesignated	Redesignated: from '.5' to '.6'
Section 5	5.10A .7 redesignated	Redesignated: from '.6' to '.7'
Section 5	5.10A .8 redesignated	Redesignated: from '.7' to '.8'
Section 5	5.11 .2 (a)	Removed: A valved bypass shall be provided
Section 5	5.11 .2 (a) to (j) redesignated	Redesignated: ' (a) through (j)' to '(a) through (i)'
Section 5	5.11 .2 (a)	Added: 'as per Standard Drawing W-18, and'
Section 5	5.13 .1	Removed: 'water services must be metered and all'
Section 5	5.13 .1 (a)	Removed: 'the road right-of-way at the property lineserved for services 50 mm dia. or less. (REVISED MAY 2020)'
Section 5	5.13 .1 (a)	Changed: 'W-1A' to 'W-1'
Section 5	5.13 .1 (b)	Changed: 'a statutory right-of-way on private property for services larger than 50 mm dia. Chamber' to 'In a statutory right-of-way on private property for services 50 mm or greater in diameter, the water meter, the box or chamber...'
Section 5	5.13 .1 (c)	Changed: 'Alternate locations may be considered with the approval of City Engineer' to 'Only if (a) or (b) are not suitable locations an alternative location will be considered subject to the approval of the City Engineer.'
Section 5	5.13 .1 (d)	Changed: 'meter at the property line' to 'domestic water meter'
Section 5	5.13 .2	Removed: 'For small services, 50 mm in dia. or less, manufactured...'
Section 5	5.13 .2	Added: 'Water meter boxes for services 50 mm diameter and less:'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 5	5.13 .2 (a) new	Added: 'Single residential, with service connection of 25 mm diameter, as per Standard Drawing No. W-1.'
Section 5	5.13 .2 (b) new	Added: 'Multi-unit residential, minimum service connection of 50 mm diameter, as per Standard Drawing No. W-1B.'
Section 5	5.13 .3	Removed:
Section 5	5.13 .4	Removed:
Section 5	5.13 .5 redesignated	Redesignated: now 5.13 .3
Section 5	5.13 .3	Added: '75 mm' and 'are' Removed: 'The following requirements are to be applied in the design of meter chambers'
Section 5	5.13 .3 (a)	Reworded: to 'A minimum of 600mm clearance must be provided between the walls and the meter including associated piping.'
Section 5	5.13 .3 (b)	Added: 'The minimum headroom for workers in water meter chambers must be 1.2 m.'
Section 5	5.13 .3 (c)	Redesignated: (b) was split to create (c) and redesignate subsequent subsections
Section 5	5.13 .3 (d)	Removed: 'The chamber shall be constructed...'
Section 5	5.13 .3 (d- o) redesignated	Revised: All subsections have been redesignated and reworded
Section 5	5.13 .3 (d)	Changed: 'Bypass and isolation valves may...' to 'Isolation valves must be provided on both sides of meters.'
Section 5	5.13 .3 (e)	Added: 'Valves for fire line services must be in accordance with NFPA regulations'
Section 5	5.13 .3 (f)	Added: 'A valved bypass must be provided.'
Section 5	5.13 .3 (f) (i) to (ii) new	Added: Subsections (i) and (ii)
Section 5	5.13 .3 (g)	Removed: The chamber shall not be located or constructed such that it is an obstacle or hazard to the customer or public safety.
Section 5	5.13 .3 (e) redesignated to (g)	Changed: 'The meter chamber can be designed as a manhole' to 'The meter chamber may be designed as a precast concrete vault as per Standard Drawing No. W-11, designed with CS600 static loading.'
Section 5	5.13 .3 (h)	Added: 'Lids for chamber/vault are to be aluminum'
Section 5	5.13 .3 (f) redesignated to (i)	Changed: 'Chambers, either vaults or manholes, that contain valves, flushouts..' to 'Chamber/vault must be designed with access openings suitable for removing valves and equipment.'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 5	5.13 .3 (h) redesignated to (j)	Changed: 'The lid of the chamber shall be flush with the..' to 'Chamber/vault surface shall be level and flush with the surrounding ground surface...'
Section 5	5.13 .3 (i) redesignated to (k)	Changed: 'in accordance with' to 'as per'
Section 5	5.13 .3 (j) redesignated to (l)	Changed: ' shall be provided which meets' to 'must meet'
Section 5	5.13 .3 (k) redesignated to (m)	Redesignated:
Section 5	5.13 .3 (l) redesignated to (n)	Changed: '75 dia. To be' to '75 diameter and greater'
Section 5	5.13 .3 (o)	Added: 'Manhole water meter chambers with manhole lids are only permitted if approved by the City Engineer, then designed as per Standard Drawing No. W-11A'
Section 5	5.13 .6 redesignated to .4	Removed: A valved bypass shall be provided for meters 38 mm dia. and larger to avoid service shutdown during meter maintenance.
Section 5	5.13 .5	Removed : 'of Nanaimo'
Section 5	5.13A .1	Changed: 'Section 5.0' to 'Section 5.70' and 'owner of a property' to 'Property Owner'
Section 5	5.13A .1 (a)(i)	Changed: 'dia.' to 'diameter'
Section 5	5.13A .1 (a)(i)	Removed: 'in a separate chamber/vault/containment structure, (such as mechanical rooms), located on the private property or parcel.'
Section 5	5.14 .2	Changed: 'dia.' to 'diameter'
Section 5	5.14 .3	Changed: 'dia.' to 'diameter' and 'Design Engineer' to 'Professional of Record'
Section 5	5.15 .2	Changed: 'mains' to 'watermains' and 'dia.' to 'diameter'
Section 5	5.15 .4	Removed: 'Above ground flushouts shall be located as per the offsets shown for hydrants on the Standard Drawings in Section 8.0_Transportation'
Section 5	5.15 .6	Added: 'No flushout shall be connected to a sewer'
Section 5	5.16	Revised: subsections (.1) to (.4)
Section 5	5.16 .1	Changed: 'storm sewer or ditch' to 'storm drainage system. The drain shall either be:'
Section 5	5.16 .1 (a) new	Added: 'Connected to the storm drainage system via gravity, or'
Section 5	5.16 .1 (b) new	Added: 'Connected to the storm drainage system via pump. Pumps shall be as per the City's Approved Products List or as approved by the City Engineer.'
Section 5	5.16 .1 (a) redesignated to (c)	Changed: '2 Floor drain assemblies shall be' to 'The drainage system is'
Section 5	5.16 .2 new	Added: 'If a connection to the storm drainage system is not available, alternative solutions require the approval of the City Engineer'
Section 5	5.16 .4	Removed: 'The design of floor drain assemblies shall'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 5	5.16 .4 (a) through (c)	Removed: all subsections under 5.16 .4
Section 5	5.20.1	Changed: 'City of Nanaimo' to 'City's'
Section 5	5.21.1	Changed: 'Engineer' to 'Professional of Record'
Section 5	5.22 .1 (a)	Added: '(i)'
Section 5	5.22 .1 (b)	Added: '(i) to (v)'
Section 5	5.22 .1 (c)	Added: '(i) to (iv)'
Section 5	5.22 .2 (a)	Added: '(i) to (vii)'
Section 5	5.22 .3 (a)	Added: (i)
Section 5	5.22 .3 (b)	Added: '(i) to (ii)'
Section 5	5.22 .3 (a) (i)	Changed: 'dia.' to 'diameter'
Section 5	5.22 .4 (a)	Added: (i) to (iii)
Section 5	5.22 .4 (a) (i)	Changed: 'shall be at the discretion and approval of the' to 'are subject to approval by the'
Section 5	5.22 .4 (a) (i)	Removed: '(HDPE pipe shall not be used for services.)'
Section 5	5.22 .4 (a) (iii) 2.	Removed: 'be COID'
Section 5	5.22 .4 (b)	Added: '(i) to (iii)'
Section 5	5.22 .4 (c)	Added: '(i)'
Section 5	5.24 .1 (a) (i)	Changed: 'UL listed and FM approved' to 'Underwriters Laboratories (UL) listed and Factory Mutual Approved (FM approved)'
Section 5	5.24 .1 (b)	Added: '(i)'
Section 5	5.24 .1 (b) (i)	Added: 'sections 1 through 10'
Section 5	5.24 .1 (b)	Added: '(ii)'
Section 5	5.25 .1	Removed: ' MR Type of'
Section 5	5.26 .2	Changed: 'Engineer' to 'Professional of Record'
Section 5	5.27 .1 (c)	Added: 'Hydrant line' Changed: 'dia.' to 'diameter' and 'mainline piping' to 'watermain'
Section 5	5.27 .1 (d)	Added: 'Pump nozzle shall be 100 mm STORZ type connection.'
Section 5	5.27 .1 (d)	Removed: 'The 100 mm pumper outlet shall conform to the B.C. Fire Hose Thread Standards nominal 100 mm I.P. 117.5 mm O.D. male 6 threads per 25mm'
Section 5	5.27 .1 (d) (i)	Changed: '100 m' to '100 mm' and 'dia.' to 'diameter' x3
Section 5	5.27 .1 (i)	Changed: 'discretion' to 'approval'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 5	5.27 .2 (a)	Changed: 'dia.' to 'diameter'
Section 5	5.28 .1	Changed: 'dia.' to 'diameter'
Section 5	5.28 .2	Changed: 'main line' to 'watermain'
Section 5	5.28 .5	Changed: 'dia.' to 'diameter' Removed: 'a MR type of'
Section 5	5.29 .2	Changed: 'dia.' to 'diameter'
Section 5	5.29 .4	Changed: 'dia.' to 'diameter'
Section 5	5.30 .1 (a)	Changed: 'dia.' to 'diameter'
Section 5	5.30 .1 (a)	Changed: 'conform to AWWA C901 CSA B137.5 and meet NSF 61. Service shall be compatible with AWWA C800 valves and fittings (service brass)' to 'be either Class 200 polyethylene or crosslinked polyethene (PEXa) piping.'
Section 5	5.30 .1 (b) (i)	Added: 'CSA B137.1 and NSF 61'
Section 5	5.30 .1 (b) (ii) new	Added: clause Added: 'Crosslinked polyethylene manufactured using the high-pressure peroxide method of crosslinking. Pipe shall conform to AWWA C904 ASTM F876 CSA B137.5 NSF/ANSI 14 and NSF/ANSI 61 complete with manufacturer recommended stainless steel or plastic inserts to stiffen pipe. Piping shall have a co-extruded UV Shield made from UV-resistant polyethylene color blue. Pipe to have minimum recommended UV exposure time of 12 months when tested in accordance with ASTM F2657 and evaluated in accordance with ASTM F876.'
Section 5	5.30 .1 (b) (iii) new	Added: clause Added: 'Service piping shall be compatible with AWWA C800 valves and fittings.'
Section 5	5.30 .1 (c) (i)	Added: 'and APWA Uniform Colour Code Blue for potable water'
Section 5	5.30 .1 (c) (ii)	Added: 'For PEXa piping, nylon ties shall be used instead of tape.'
Section 5	5.30 .1 (c) (iv)	Changed: 'Engineer' to 'Professional of Record' Removed: 'project'
Section 5	5.30 .2 (a)	Added: 'tubing size' Removed: 'or plastic tubing'
Section 5	5.30 .5	Changed: 'Service Connections Greater than' to 'Service Connections 75 mm Diameter or Greater'
Section 5	5.30 .5 (a)	Changed: '100 mm dia.' to '75 mm diameter'
Section 5	5.30 .5 (b)	Changed: 'Mainline' to 'Watermain'
Section 5	5.30 .5 (c)	Changed: 'mainline' to 'watermain'
Section 5	5.30 .6	Added: 'Setters'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 5	5.30 .6 (a)	Removed: 'water services 25mm dia. And smaller shall be 300mm x 500mm concrete meter boxes' and ' Where approved by the City Engineer, plastic meter service boxes may be used in existing landscape areas. They are not ot be used in existing , proposed or future driveway locations.'
Section 5	5.30 .6 (a)	Revised to read: Service boxes for 25mm diameter water service connections, meter setter and meter are contained in a concrete meter box with interior dimensions of 500 mm x 300 mm complete with cast iron traffic cover marked "Water". These will be typically installed as per W-1.'
Section 5	5.30 .6 (b)	Removed: '38 50 mm dia. water services shall be 425 x 750 mm'
Section 5	5.30 .6 (b)	Reworded to read: 'Service boxes for a 50 mm diameter water service connection that requires a 38 mm diameter or 50 mm diameter water meter and meter setter are contained in a concrete meter box with interior dimension of 555 mm x 860 mm concrete meter boxes complete with steel traffic covers marked "Water". These will be typically installed as per W-1B. The upstream curb stop is located in the street right of way as per W-1A.'
Section 5	5.30 .6 (c) new	Added: 'Provisions for a meter setter are required for all new installations'
Section 5	5.30 .6 (c) (i)	Added: 'A 25 mm diameter water service connection can be reduced inside the meter box to a 19 mm meter setter'
Section 5	5.30 .6 (c) (ii)	Added: ' The 50 mm water service connection can be reduced after the curb stop to meet the current residential unit requirements'
Section 5	5.30 .6 (d) redesignated	Changed: 'larger' to 'greater' and 'dia.' to 'diameter'
Section 5	5.30 .6 (e) redesignated	Changed: 'shall' to 'must' and 'touch' to 'radio'
Section 5	5.30 .6 (e)	Removed: 'Box shall be adequate depth to provide minimum 450 mm...'
Section 5	5.30 .7 (c)	Changed: 'Design Engineer' to 'Professional of Record'
Section 5	5.30 .7 (d) (i)	Changed: '19 mm to 50 mm' to '50 mm diameter and less'
Section 5	5.30 .7 (e) (ii)	Changed: '19 mm to 50 mm' to '50 mm diameter and less'
Section 5	5.30 .7 (e) (ii) 2.	Changed: '37 mm dia.' to '38 mm diameter'
Section 5	5.30 .7 (e) (ii) 2.	Changed: '37 mm' to '38 mm'
Section 5	5.30 .7 (e) (ii) 2.	Removed: 'shell' x2
Section 5	5.30 .7 (f)	Changed: 'dia.' to 'diameter'
Section 5	5.30 .8 (a)	Changed: 'Touch Read' to 'Radio Read' x2

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 5	5.30 .8 (c)	Changed: 'family' to 'residential'
Section 5	5.30 .8 (d)	Changed: 'duplex' to 'two unit residential' Added: 'minimum'
Section 5	5.30 .8 (f)	Changed: '100 mm and larger' to '75 mm and greater'
Section 5	5.30 .8 (h)	Changed: 'meters' to 'metre'
Section 5	5.30 .10	Changed: 'dia.' to 'diameter' in both subsection (a) and (b)
Section 5	5.31 .1 (a)	Added: '(PR)'
Section 5	5.31 .1 (e)	Changed: 'main line' to 'watermain'
Section 5	5.31 .1 (g) new	Added: 'All piloting shall be rigid stainless steel tubing with compression fittings'
Section 5	5.31 .1 (g) to (j)	Redesignated: Subsections (g) to (j) are now (h) to (k)
Section 5	5.31 .2 (c)	Changed: 'brass gate' with 'stainless steel ball'
Section 5	5.31 .2 (e)	Changed: 'copper, or brass' to 'stainless steel'
Section 5	5.31 .2 (f)	Added: 'stainless'
Section 5	5.33 .2	Changed: 'dia.' to 'diameter'
Section 5	5.33 .6 (a)	Changed: 'dia.' to 'diameter'
Section 5	5.34 .4 (b)	Removed
Section 5	5.34 .4 (c) to (g)	Redesignated: Subsections (c) to (g) are now (b) to (f)
Section 5	5.34 .5	Changed: 'dia.' to 'diameter' in both subsection (a) and (b)
Section 5	5.34 .8	Changed: 'Touch Read Meter' to 'Radio Read Meter'
Section 5	5.34 .8 (a)	Changed: 'Touch Read Meter' to 'Radio read meter'
Section 5	5.41 .1	Changed: 'Engineer' to 'City Engineer'
Section 5	5.41 .2	Changed: 'main' to 'watermain'
Section 5	5.41 .2 (b)	Added: 'degree'
Section 5	5.42 .2	Added: 'cement'
Section 5	5.45 .1	Changed: 'Engineer' to 'Professional of Record'
Section 5	5.45 .1	Added: 'City'
Section 5	5.47 .1	Added: 'City'
Section 5	5.48 .1	Changed: 'Engineer' to 'Professional of Record'
Section 5	5.49 .1	Removed: 'of Nanaimo' Changed: 'authorized' to 'approved'
Section 5	5.50 .3 (c)	Removed: 'of Nanaimo'
Section 5	5.52 .2 (f)	Changed: 'main' to 'watermain'
Section 5	5.52 .3 (a)	Changed: 'Engineer' to 'Professional of Record'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 5	5.53 .1	Changed: 'Engineer' to 'Professional of Record'
Section 5	5.53 .3	Changed: 'dia.' to 'diameter'
Section 5	5.54 .1	Changed: 'Engineer' to 'Professional of Record'
Section 5	5.56	Changed: 'dia.' to 'diameter' in all subsections
Section 5	5.56 .1	Reworded to read: 'All 25mm diameter water service connections shall be installed in accordance with Standard Drawing No. W-1 [] and all manufacturers' recommendations.'
Section 5	5.56 .2	Reworded to read: 'All water service connections greater than 75 mm diameter shall be installed as shown on the drawings.'
Section 5	5.56 .3 (a)	Removed: 'and depths'
Section 5	5.56 .4 (a)	Changed: 'main' to 'watermain'
Section 5	5.56 .4 (b)	Removed: 'for the curb stop'
Section 5	5.56 .4 (f)	Changed: 'drawings' to 'on Standard Drawing No. W-1'
Section 5	5.56 .4 (g)	Removed
Section 5	5.56 .4 (g) to (j)	Redesignated: Subsections (g) to (j) are now (g) to (i)
Section 5	5.56 .4(h)	Changed: 'main' to 'watermain' and '50mm dia.' to 50 mm diameter'
Section 5	5.56 .4 (i)	Changed: 'Engineer' to 'Professional of Record'
Section 5	5.56 .5 (a)	Changed: 'main' to 'watermain' , 'workmen' to 'workers' and 'Engineer' to 'Professional of Record'
Section 5	5.56 .5 (b)	Changed: '100 mm dia. main pipe and' to '100 mm diameter watermain '
Section 5	5.56 .6	Added: 'Meter Setter'
Section 5	5.56 .6 (a)	Changed: 'Engineer' to 'Professional of Record''
Section 5	5.56 .6 (a)	Removed: 'and shall be provided with a plastic plug to prevent the entrance of foreign material.'
Section 5	5.56 .6 (b)	Changed: 'untraveled' to 'untravelled' and 'W1' to 'W-1'
Section 5	5.56 .6 (b)	Removed: 'The service box shall be installed when the service is installed from the watermain to the property line.'
Section 5	5.56 .6 (c) new	Added: 'Provisions for a meter setter are required for all new installations.'
Section 5	5.56 .6 (c) (i)	Added: 'A 25 mm diameter water service can be reduced inside the box to a 19 mm meter setter for a 19 mm meter. The meter setter is installed by applicant. The meter will be installed by City forces.'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 5	5.56 .6 (c) (ii)	Added: 'A 50 mm diameter water service connection may be reduced inside the meter box to a setter that meets the current residential unit requirements as determined by the Professional of Record. The installation of the box, meter setter and meter size must be confirmed by a Professional of Record'
Section 5	5.56 .7 new	Added: 'Abandoned of Service Connections: '
Section 5	5.56 .7 (a)	Added: 'A permanently abandoned service connection are disconnected at the closed corporation stop at watermain. This requires excavation at the watermain. Refer to Section 5.06 – Service Connections for Design Criteria'
Section 5	5.56 .7 (b)	Added: 'All disconnections to existing piping services and appurtenances are made by the City forces unless otherwise approved by the City Engineer.'
Section 5	5.56 .7 (c)	Added: 'For services greater than 50 mm diameter, a permanently abandoned service connection are disconnected at the closed valve, a pressure cap restrained to the closed valve, and the abandoned service line plugged at both ends. The length of remaining pipe between the valve and pressure cap shall be minimized. Refer to Section 5.50 - Abandoned Valve Box Removal [→] and Section 5.47 – Pipe Restraint '
Section 5	5.56 .7 (d)	Added: 'Remove the meter assembly. Refer to Refer to Section 4.0 – Excavation Trenching and Backfill [⇒] for specifications and surface restoration requirements'
Section 5	5.56 .8 new	Added: 'When an existing watermain is abandoned, the pipe is cut and ends plugged or capped. The location will be recorded as per Section 1.20.2 [] and Section 1.22.3 '
Section 5	5.56 .9 new	Added: 'When a valve is abandoned, a cap is installed on the valve and restrained as per Section 5.09.4 [→] and wrapped with petrolatum tape, shrink wrap or approved equivalent. The riser pipe and nelson box will be removed as Standard Drawing T-13 []. The location will be recorded as per Section 1.20.2 [] and Section 1.22.3 []'
Section 5	5.57 .1	Removed: 'of Nanaimo' Changed: 'authorized' to 'approved'
Section 5	5.58 .5	Changed: 'Touch Read Meter' to 'Radio Read Meter'
Section 5	5.58 .6	Changed: 'Engineer' to 'City Engineer'
Section 5	5.58 .7 (d)	Changed: 'Engineer' to 'City Engineer'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 5	5.58 .8 (b)	Changed: 'Engineer' to 'Qualified Registered Professional'
Section 5	5.58 .9 (a)	Changed: '5.58.8' to 'Section 5.58.8'
Section 5	5.58 .11 (b) (ii)	Changed: '6mm' to '6 mm'
Section 5	5.58 .12 (a)	Added: 'City'
Section 5	5.58 .12 (b)	Changed: 'WorkSafe BC' to 'WorkSafeBC'
Section 5	5.61 .4	Changed: 'lead' to 'line'
Section 5	5.61 .5	Changed: 'of the Design Engineer' to 'of Professional of Record' and 'the City of Nanaimo Inspector' to 'City Inspector'
Section 5	5.62 .1	Changed: 'City of Nanaimo Operations Staff' to 'City Inspector'
Section 5	5.62 .2	Changed: 'Design Engineer' to 'Professional of Record' Added: 'the following activities, including but not limited to:'
Section 5	5.62 .2 (c)	Changed: 'Design Engineer' to 'Professional of Record' Removed: 'the' and 'of Nanaimo'
Section 5	5.62 .3	Changed: 'Engineer' to 'Professional of Record'
Section 5	5.63 .1	Removed: 'of Nanaimo'
Section 5	5.63 .3	Changed: 'Design Engineer' to 'Professional of Record'
Section 5	5.63 .4	Changed: 'Design Engineer' to 'Professional of Record'
Section 5	5.63 .5	Changed: 'Design Engineer' to 'Professional of Record'
Section 5	5.63 .6	Changed: 'Design Engineer' to 'Professional of Record' Removed: 'of Nanaimo'
Section 5	5.70 .1	Removed: 'of Nanaimo' Changed: 'British Columbia Plumbing Code Division B Part 2' to 'National Plumbing Code of Canada (NPC)'
Section 5	5.70 .2 (a)	Changed: 'Drinking Water Act' to 'Drinking Water Protection Act'
Section 5	5.70 .3	Changed: 'British Columbia Plumbing Code' to 'National Plumbing Code of Canada'
Section 5	5.71 .1	Changed: 'owner' to 'property owner' x2
Section 5	5.71 .1 (a)	Added: 'City's'
Section 5	5.71 .2	Changed: 'owner' to 'property owner' Removed: 'of Nanaimo'
Section 5	5.71 .2 (b)	Changed: 'owner' to 'property owner'
Section 5	5.71 .3	Changed: 'Owner's property' to 'Property Owner's land'
Section 5	5.71 .3 (a)	Changed: 'owner' to 'property owner'
Section 5	5.72 .1 (c) (i)	Changed: 'For specialized service such as for fire supply a DuCF may be required' to 'A Dual Check Valve for Fire protection service (DuCF) may be required.'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 5	5.74 .1	Removed: 'of Nanaimo' x2
Section 5	5.74 .2	Changed: 'British Columbia Plumbing Code' to 'National Plumbing Code of Canada'
Section 5	5.74 .3 (b)	Added: Double Check Valve Assembly for Fire protection (DCVAF) and Double Check Detector Assembly (DCDA).
Section 5	5.75 .1 (a) (i)	Changed: 'Duplex' to 'Two Unit'
Section 5	5.76 .2 (a)	Removed: 'of Nanaimo'
Section 5	5.76 .4 (e)	Changed: 'main line' to 'watermain'
Section 5	5.77 .2 (a)	Removed: 'of Nanaimo'
Section 5	5.78 .6 (a)	Changed: 'qualified competent person' to 'Qualified Registered Professional'
Section 5	5.79 .1	Removed: 'of Nanaimo'
Section 5	5.80 .1 (a)	Removed: 'of Nanaimo'
Section 5	5.81 .2 (d)	Changed: 'British Columbia Plumbing Code' to 'National Plumbing Code of Canada'
Section 5	5.81 .3	Removed: 'of Nanaimo'
Section 5	5.81 .3 (a) (i) 1.	Changed: 'dia.' to 'diameter'
Section 5	W-0 (new)	Added: new drawing W-0
Section 5	W-1	Replaced: replaced W-1 in its entirety
Section 5	W-1A	Replaced: replaced W-1A in its entirety
Section 5	W-1B	Added: new drawing W-1B
Section 5	Std.Dwg. W-21 (rev)?	Removed to [in label]: 'MAY 2020'
Section 5	Std.Dwg. W-2A (rev)	Added to [in label]: 'AS PER STANDARD DRAWING W-16A'
Section 5	Std.Dwg. W-2A (rev)	Changed [in label]: 'May 2020' to 'Edition 15'
Section 5	Std.Dwg. W-2A (rev)	Removed to [in label]: 'MR'
Section 5	Std.Dwg. W-2A (rev)	Removed to [in label]: 'NOV 2016'
Section 5	Std.Dwg. W-2B (rev)	Added to [in label]: 'AS PER STANDARD DRAWING W-16A'
Section 5	Std.Dwg. W-2B (rev)	Added to [in label]: 'HEAVY DUTY MANHOLE FRAME AND COVER (SEE STD DWG W-19)'
Section 5	Std.Dwg. W-2B (rev)	Added to [Note 7]: 'CONCRETE AS PER SECTION 11.0.'
Section 5	Std.Dwg. W-2B (rev)	Changed [in label]: 'CONC.' to 'CONCRETE'
Section 5	Std.Dwg. W-2B (rev)	Changed [in label]: 'May 2020' to 'Edition 15'
Section 5	Std.Dwg. W-2B (rev)	Changed [Note 7]: 'METHOD AT THE DISCRETION OF THE ENGINEER' to 'AS DESIGNED BY PROFESSIONAL OF RECORD'

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Section 5	Std.Dwg. W-2B (rev)	Changed [Note 9]: 'APPROVED BY CITY ENGINEER AND' to 'OR APPROVED BY CITY ENGINEER. '
Section 5	Std.Dwg. W-2B (rev)	Removed to [in label]: '25 IN UNPAVED AREAS AND 0 IN PAVED AREAS'
Section 5	Std.Dwg. W-2B (rev)	Removed to [in label]: 'CAST IRON FRAME AND COVER PROJECT FRAME'
Section 5	Std.Dwg. W-2B (rev)	Removed to [in label]: 'MR'
Section 5	Std.Dwg. W-2B (rev)	Removed to [in label]: 'NOV 2016'
Section 5	Std.Dwg. W-2B (rev)	Removed to [Note 9]: 'APPROVED BY CITY ENGINEER AND'
Section 5	Std.Dwg. W-4 (rev)	Added to [Note 7]: 'CONCRETE AS PER SECTION 11.0. '
Section 5	Std.Dwg. W-4 (rev)	Changed [in label]: 'EARTH' to 'SOIL'
Section 5	Std.Dwg. W-4 (rev)	Changed [in label]: 'May 2020' to 'Edition 15'
Section 5	Std.Dwg. W-4 (rev)	Changed [Note 4]: 'CB' to 'CATCH BASIN'
Section 5	Std.Dwg. W-4 (rev)	Changed [Note 5]: 'APPROVED BY CITY ENGINEER AND' to 'OR APPROVED BY CITY ENGINEER. '
Section 5	Std.Dwg. W-4 (rev)	Removed to [in label]: 'NOV 2016'
Section 5	Std.Dwg. W-4 (rev)	Removed to [in label]: 'WITH 2-20Ø VENT HOLES'
Section 5	Std.Dwg. W-4 (rev)	Removed to [in label]: 'WORDING ON COVERS SHALL READ' CITY OF NANAIMO WATERWORKS'
Section 5	Std.Dwg. W-5 (rev)	Added to [in label]: 'AS PER STANDARD DRAWING W-16A'
Section 5	Std.Dwg. W-5 (rev)	Added to (in label): '100 STORZ CONNECTION'
Section 5	Std.Dwg. W-5 (rev)	Added to [in label]: 'SEE NOTE10'
Section 5	Std.Dwg. W-5 (rev)	Added to [Note 1]: '. THE PROFESSIONAL OF RECORD MUST CONSIDER THE MINIMUM OFFSETS IN SECTION 5.07.6'
Section 5	Std.Dwg. W-5 (rev)	Added to [Note 1]: 'LOCATIONS'
Section 5	Std.Dwg. W-5 (rev)	Added to [Note 10]: 'FOR THRUST BLOCK ON WATERMAIN REFER TO DESIGN CRITERIA IN SECTION 5.09 AND STANDARD DRAWING W-8.'
Section 5	Std.Dwg. W-5 (rev)	Added to [Note 2]: 'FIRE TRUCK ACCESS'
Section 5	Std.Dwg. W-5 (rev)	Added to [Note 4]: 'AS PER STANDARD DRAWING W-9'
Section 5	Std.Dwg. W-5 (rev)	Added to [Note 5]: 'STANDARD DRAWING'
Section 5	Std.Dwg. W-5 (rev)	Added to [Note 6]: 'OR APPROVED BY CITY ENGINEER. '
Section 5	Std.Dwg. W-5 (rev)	Added to [Note 7]: 'SECTION'
Section 5	Std.Dwg. W-5 (rev)	Added to [Note 8]: 'ALL DIMENSIONS ARE MILLIMETERS UNLESS NOTED OTHERWISE. '

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Section 5	Std.Dwg. W-5 (rev)	Added to [Note 9]: 'CONCRETE AS PER SECTION 11.0. '
Section 5	Std.Dwg. W-5 (rev)	Changed [in label]: 'May 2020' to 'Edition 15'
Section 5	Std.Dwg. W-5 (rev)	Changed [Note 1]: 'OFFSETS' to 'LOCATIONS'
Section 5	Std.Dwg. W-5 (rev)	Removed to [in label]: ': NOV 2016'
Section 5	Std.Dwg. W-5 (rev)	Removed to [in label]: 'mm'
Section 5	Std.Dwg. W-5 (rev)	Removed to [in label]: 'MR TYPE'
Section 5	Std.Dwg. W-5 (rev)	Removed to [Note 1]: 'AT NO TIME SHALL HYDRANTS BE CONSTRUCTED CLOSER THAN 1.0 METERS TO THE PROPERTY LINE'
Section 5	Std.Dwg. W-5 (rev)	Removed to [Note 2]: 'CURB'
Section 5	Std.Dwg. W-5 (rev)	Removed to [Note 4]: 'REQUIRE A 1.5m X 1.5m HOTMIX ASPHALT APRON 50mm THICK.'
Section 5	Std.Dwg. W-5 (rev)	Removed to [Note 5]: 'STD. DWG. NO.'
Section 5	Std.Dwg. W-5 (rev)	Removed to [Note 6]: 'APPROVED BY CITY ENGINEER AND'
Section 5	Std.Dwg. W-5 (rev)	Removed to [Note 6]: 'CONSTRUCTION'
Section 5	Std.Dwg. W-7 (rev)	Added to [in label]: '2.0m'
Section 5	Std.Dwg. W-7 (rev)	Added to [in label]: '2.0m MINIMUM UNOBSTRUCTED CLEARANCE'
Section 5	Std.Dwg. W-7 (rev)	Added to [in label]: 'AS PER SECTION 7.11 AND SECTION 7.66'
Section 5	Std.Dwg. W-7 (rev)	Changed [in label]: '3' to '4.5M'
Section 5	Std.Dwg. W-7 (rev)	Changed [in label]: 'May 2020' to 'Edition 15'
Section 5	Std.Dwg. W-7 (rev)	Changed [in label]: 'TYPICAL DITCH SECTION AT CULVERT INLETS AND OUTLETS' to 'DRIVEWAY DITCH AS PER SECTION 7.08'
Section 5	Std.Dwg. W-7 (rev)	Changed [Note 2]: 'APPROVED BY CITY ENGINEER AND' to 'OR APPROVED BY CITY ENGINEER.'
Section 5	Std.Dwg. W-7 (rev)	Changed to [in label]: 'CULVERT 300mm Ø MIN OR AS DIRECTED' to 'DRIVEWAY CULVERTS AS PER SECTION 7.07.3'
Section 5	Std.Dwg. W-7 (rev)	Removed to [in label]: 'NOV 2016'
Section 5	Std.Dwg. W-8 (rev)	Added to [Note 7]: 'REFER TO DESIGN CRITERIA IN SECTION 5.09.'
Section 5	Std.Dwg. W-8 (rev)	Changed [in label]: 'May 2020' to 'Edition 15'
Section 5	Std.Dwg. W-8 (rev)	Changed [Note 4]: 'FOR CONCRETE SPECIFICATIONS SEE SECTION 11' to 'CONCRETE AS PER SECTION 11.0.'=> [Std.Dwg. W-8 (rev)]
Section 5	Std.Dwg. W-8 (rev)	Removed to [in label]: 'mm'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 5	Std.Dwg. W-8 (rev)	Removed to [in label]: 'NOV 2016'
Section 5	Std.Dwg. W-9 (rev)	Changed [in label]: 'May 2020' to 'Edition 15'
Section 5	Std.Dwg. W-9 (rev)	Changed [Note 2]: 'ENGINEER' to 'PROFESSIONAL OF RECORD'
Section 5	Std.Dwg. W-9 (rev)	Changed [Note 4]: 'STD. DWG.' to 'STANDARD DRAWING'=> [Std.Dwg. W-9 (rev)]
Section 5	Std.Dwg. W-9 (rev)	Added to (Note 6): 'CONCRETE AS PER SEECTION 11.0'
Section 5	Std.Dwg. W-9 (rev)	Removed to [in label]: 'NOV 2016'
Section 5	Std.Dwg. W-11 (rev)	Added to [in label]: '*FIRE RATED METERS TYPICALLY REQUIRE LARGER CHAMBERS.'
Section 5	Std.Dwg. W-11 (rev)	Added to [in label]: 'ALUMINUM LID'
Section 5	Std.Dwg. W-11 (rev)	Added to [Note 1]: 'STANDARD'
Section 5	Std.Dwg. W-11 (rev)	Added to [Note 1]: 'THE DESIGN IS DONE BY A PROFESSIONAL OF RECORD'
Section 5	Std.Dwg. W-11 (rev)	Added to [Note 11]: 'ALUMINUM ACCESS LADDER MUST MEET THE WORKSAFEBBC REQUIREMENTS FOR FIXED LADDERS'
Section 5	Std.Dwg. W-11 (rev)	Added to [Note 2]: 'AS PER SECTION 11.0.'
Section 5	Std.Dwg. W-11 (rev)	Added to [Note 3]: 'STATIC'
Section 5	Std.Dwg. W-11 (rev)	Added to [Note 5]: 'AS PER SECTION 5.58.'
Section 5	Std.Dwg. W-11 (rev)	Added to [Note 6]: 'OR APPROVED BY CITY ENGINEER. '
Section 5	Std.Dwg. W-11 (rev)	Added to [Note 9]: 'DOUBLE CHECK VALVE ASSEMBLY ('
Section 5	Std.Dwg. W-11 (rev)	Changed [in label]: '/' to 'OR'
Section 5	Std.Dwg. W-11 (rev)	Changed [in label]: 'INTERVAL' to 'INTERNAL'
Section 5	Std.Dwg. W-11 (rev)	Changed [in label]: 'May 2020' to 'Edition 15'
Section 5	Std.Dwg. W-11 (rev)	Removed to [in label]: '/'
Section 5	Std.Dwg. W-11 (rev)	Removed to [in label]: 'PAINTED STEEL COVERS (H2O STATIC LOAD)'
Section 5	Std.Dwg. W-11 (rev)	Removed to [Note 2]: 'SHALL CONFORM TO SECTION 11'
Section 5	Std.Dwg. W-11A (rev)	Added to [in label]: 'HEAVY DUTY MANHOLE FRAME AND COVER (SEE STD DWG W-19)'
Section 5	Std.Dwg. W-11A (rev)	Added to [in label]: 'LADDER RUNGS AS PER SECTION 5.34'
Section 5	Std.Dwg. W-11A (rev)	Added to [Note 6]: 'PROFESSIONAL OF RECORD'
Section 5	Std.Dwg. W-11A (rev)	Added to [Note 7]: 'CONCRETE AS PER SECTION 11.0. '
Section 5	Std.Dwg. W-11A (rev)	Changed [in label]: 'May 2020' to 'Edition 15'
Section 5	Std.Dwg. W-11A (rev)	Changed [Note 3]: 'APPROVED BY THE DIRECTOR OF ENGINEERING AND PUBLIC WORKS AND' to 'OR APPROVED BY CITY ENGINEER. '

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 5	Std.Dwg. W-11A (rev)	Removed to [in label]: '19Ø LADDER RUNGS AT 300 o.c. CAST IN WALL OF BARREL INSTALLED'
Section 5	Std.Dwg. W-11A (rev)	Removed to [in label]: 'HEAVY DUTY UTILITY CHAMBER MANHOLE FRAME AND COVER AS SPECIFIED ON THE CONSTRUCTION DRAWINGS (SEE NOTE 6). WORDING ON COVER TO READ "CITY'
Section 5	Std.Dwg. W-11A (rev)	Removed to [in label]: 'NOV 2016'
Section 5	Std.Dwg. W-11A (rev)	Removed to [Note 6]: 'ENGINEER'
Section 5	Std.Dwg. W-12 (rev)	Added to [Note 5]: 'ONLY PRODUCTS LISTED IN THE CITY OF NANAIMO APPROVED PRODUCTS LIST WILL BE ACCEPTED FOR INSTALLATION.'
Section 5	Std.Dwg. W-12 (rev)	Changed [in label]: 'May 2020' to 'Edition 15'
Section 5	Std.Dwg. W-12 (rev)	Changed [in label]: 'TOUCH' to 'RADIO'
Section 5	Std.Dwg. W-12 (rev)	Removed to [in label]: 'NOV 2016'
Section 5	Std.Dwg. W-13 (rev)	Added to [in label]: 'AS PER SECTION 5.70'
Section 5	Std.Dwg. W-13 (rev)	Added to [in label]: 'PRIVATE'
Section 5	Std.Dwg. W-13 (rev)	Added to [in label]: 'PROPERTY LINE'
Section 5	Std.Dwg. W-13 (rev)	Added to [in label]: 'PROPOSED STATUTORY RIGHT-OF-WAY'
Section 5	Std.Dwg. W-13 (rev)	Added to [in label]: 'ROW'
Section 5	Std.Dwg. W-13 (rev)	Added to [in label]: 'S'
Section 5	Std.Dwg. W-13 (rev)	Added to [Note 22]: 'LADDER'
Section 5	Std.Dwg. W-13 (rev)	Added to [Note 4]: 'OR APPROVED BY CITY ENGINEER.'
Section 5	Std.Dwg. W-13 (rev)	Added to [Note 6]: 'AND'
Section 5	Std.Dwg. W-13 (rev)	Added to [Note 6]: 'AS PER SECTION 5.70'
Section 5	Std.Dwg. W-13 (rev)	Added to [Note 7]: 'CONCRETE AS PER SECTION 11.0. '
Section 5	Std.Dwg. W-13 (rev)	Changed: '100' to '75Ø'
Section 5	Std.Dwg. W-13 (rev)	Changed [in label]: '/' to 'OR'
Section 5	Std.Dwg. W-13 (rev)	Removed: MAY 2020
Section 5	Std.Dwg. W-13 (rev)	Changed [in label]: 'May 2020' to 'Edition 15'
Section 5	Std.Dwg. W-13 (rev)	Changed [in label]: 'TOUCH' to 'RADIO'
Section 5	Std.Dwg. W-13 (rev)	Changed [Note 8]: 'FIRE' to 'DOMESTIC OR COMBINED WITH FIRELINE'
Section 5	Std.Dwg. W-13 (rev)	Removed to [in label]: '/'
Section 5	Std.Dwg. W-13 (rev)	Removed to [in label]: 'PRIVATE'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 5	Std.Dwg. W-13 (rev)	Removed to [in label]: 'PROPERTY LINE'
Section 5	Std.Dwg. W-13 (rev)	Removed to [in label]: 'ROW'
Section 5	Std.Dwg. W-13 (rev)	Removed to [Note 4]: 'APPROVED BY CITY ENGINEER AND'
Section 5	Std.Dwg. W-14	Removed: drawing removed
Section 5	Std.Dwg. W-14A	Replaced: W-14A replaced in its entirety
Section 5	Std.Dwg. W-15	Added to [Note 7]: 'REFER TO DESIGN CRITERIA IN SECTION 5.09 AND STANDARD DRAWING W-8.'
Section 5	Std.Dwg. W-15	Changed [in label]: 'May 2020' to 'Edition 15'
Section 5	Std.Dwg. W-15	Changed [Note 8]: 'APPROVED BY CITY ENGINEER AND' to 'OR APPROVED BY CITY ENGINEER.'
Section 5	Std.Dwg. W-15	Removed to [in label]: 'Draft for internal discussion only (V3 2025-11-03)'
Section 5	Std.Dwg. W-15	Removed to [Note 8]: 'APPROVED BY CITY ENGINEER AND'
Section 5	Std.Dwg. W-16 (rev)	Added to [in label]: 'CONCRETE AS PER SECTION 11.0. '
Section 5	Std.Dwg. W-16 (rev)	Changed [in label]: '1.2m' to '1200'
Section 5	Std.Dwg. W-16 (rev)	Changed [in label]: 'ENGINEER' to 'PROFESSIONAL OF RECORD'
Section 5	Std.Dwg. W-16 (rev)	Changed [in label]: 'May 2020' to 'Edition 15'
Section 5	Std.Dwg. W-16 (rev)	Changed [Note 2]: 'STD. DWG.' to 'STANDARD DRAWING'
Section 5	Std.Dwg. W-16 (rev)	Changed [Note 4]: 'CONSTRUCTION' to 'INSTALLATION OR APPROVED BY CITY ENGINEER. '
Section 5	Std.Dwg. W-16 (rev)	Removed to [in label]: '1.2m'
Section 5	Std.Dwg. W-16 (rev)	Removed to [in label]: 'ENGINEER'
Section 5	Std.Dwg. W-16 (rev)	Removed to [in label]: 'mm'
Section 5	Std.Dwg. W-16 (rev)	Removed to [in label]: 'MR VALVE'
Section 5	Std.Dwg. W-16 (rev)	Removed to [in label]: 'NOV 2016'
Section 5	Std.Dwg. W-16 (rev)	Removed to [Note 2]: 'NELSON-TYPE VALVE BOX SHALL BE USED IN NON-PAVED AREAS AT THE DISCRETION OF THE ENGINEER.'
Section 5	Std.Dwg. W-16 (rev)	Removed to [Note 2]: 'SHALL BE MR TYPE'
Section 5	Std.Dwg. W-16 (rev)	Removed to [Note 2]: 'STD. DWG.'
Section 5	Std.Dwg. W-16 (rev)	Removed to [Note 3]: 'ALL MR AND NELSON BOX LIDS SHALL BE PARSONS LONG NECK.'
Section 5	Std.Dwg. W-16 (rev)	Removed to [Note 4]: 'APPROVED BY CITY ENGINEER AND'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 5	Std.Dwg. W-16 (rev)	Removed to [Note 4]: 'CONSTRUCTION'
Section 5	Std.Dwg. W-16A (rev)	Added to [in label]: '381'
Section 5	Std.Dwg. W-16A (rev)	Added to [in label]: 'ID 184'
Section 5	Std.Dwg. W-16A (rev)	Added to [in label]: 'LID 211'
Section 5	Std.Dwg. W-16A (rev)	Added to [in label]: 'OD 206'
Section 5	Std.Dwg. W-16A (rev)	Changed [in label]: 'May 2020' to 'Edition 15'
Section 5	Std.Dwg. W-16A (rev)	Changed [Note 2]: 'CONSTRUCTION' to 'INSTALLATION OR APPROVED BY CITY ENGINEER. '
Section 5	Std.Dwg. W-16A (rev)	Removed to [in label]: '346 (MR6)'
Section 5	Std.Dwg. W-16A (rev)	Removed to [in label]: '397 (MR8)'
Section 5	Std.Dwg. W-16A (rev)	Removed to [in label]: 'ID 187 (MR6)'
Section 5	Std.Dwg. W-16A (rev)	Removed to [in label]: 'ID 233 (MR8)'
Section 5	Std.Dwg. W-16A (rev)	Removed to [in label]: 'LID 184 (MR6)'
Section 5	Std.Dwg. W-16A (rev)	Removed to [in label]: 'LID 235 (MR8)'
Section 5	Std.Dwg. W-16A (rev)	Removed to [in label]: 'MR TYPE'
Section 5	Std.Dwg. W-16A (rev)	Removed to [in label]: 'NOV 2016'
Section 5	Std.Dwg. W-16A (rev)	Removed to [in label]: 'O D 214 (MR6)'
Section 5	Std.Dwg. W-16A (rev)	Removed to [in label]: 'OD 251 (MR8)'
Section 5	Std.Dwg. W-16A (rev)	Removed to [in label]: 'PARSONS LONG NECK LID C/W WORD'
Section 5	Std.Dwg. W-16A (rev)	Removed to [in label]: 'SINGLE DIAMOND CHECKER'
Section 5	Std.Dwg. W-16A (rev)	Removed to [in label]: 'WATER'
Section 5	Std.Dwg. W-16A (rev)	Removed to [Note 2]: 'APPROVED BY CITY ENGINEER AND'
Section 5	Std.Dwg. W-16A (rev)	Removed to [Note 2]: 'CONSTRUCTION'
Section 5	Std.Dwg. W-18 (rev)	Added to [in label]: 'CONCRETE'
Section 5	Std.Dwg. W-18 (rev)	Added to [in label]: 'S'
Section 5	Std.Dwg. W-18 (rev)	Added to [Note 4]: 'CONCRETE AS PER SECTION 11.0. '
Section 5	Std.Dwg. W-18 (rev)	Changed [in label]: 'CB' to 'CATCH BASIN'
Section 5	Std.Dwg. W-18 (rev)	Changed [in label]: 'May 2020' to 'Edition 15'
Section 5	Std.Dwg. W-18 (rev)	Changed [Note 2]: 'APPROVED BY CITY ENGINEER AND' to 'OR APPROVED BY CITY ENGINEER. '
Section 5	Std.Dwg. W-18 (rev)	Removed to [Note 2]: 'APPROVED BY CITY ENGINEER AND'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 5	Std.Dwg. W-19	Replaced: W-19 replaced in its entirety
Section 6	6.0_TOC	Changed: 'Service Junctions' to 'Service Connection Junctions '
Section 6	6.0_TOC	Changed: 'steps' to 'rungs'
Section 6	6.0_TOC	Changed: 'Frame and Cover' to 'Utility Cover Snuneymuxw Frog Pattern 2023 – 2033'
Section 6	6.0_TOC	Removed: Temporary Sanitary Cleanout Structure
Section 6	6.01 .1	Changed: 'Changes may be authorized by the City of Nanaimo for specific projects.' to 'Changes and non-conformance are to be approved by the City Engineer.'
Section 6	6.01 .2 (new)	Added: 'This manual is used in accordance with the Defined Terms in to Section 2.01 '
Section 6	6.01A .3_Table	Changed: 36 pph to '36 pph See Note 1 for exceptions'
Section 6	6.01A .3_Table	Changed: 'Single Residential' to 'Residential'
Section 6	6.01A .3_Table_note	Added: : 'Note 1: Industrial uses such as breweries car washes fish hatcheries and others that have higher water consumption and sewage discharge shall not use the standard population density value of 36 persons per hectare. Instead the Professional of Record shall submit sewage discharge calculations based on the actual based on the proposed land use and operational requirements of each individual parcel '
Section 6	6.01A .5	Changed: 1:25 year 24 hour storm' to '1:25 AEP 24 hour event'
Section 6	6.01A .7	Changed: 'Sanitary sewage design calculations shall be prepared in a format in...' to 'Sanitary sewage design calculations, for areas with an equivalent population less than 100, shall be prepared in a format in accordance with Appendix H1 – Sanitary Sewer Flow Analysis – Calculation Sheet [☐⇒]. Calculations for areas with an equivalent population exceeding 100 shall be modeled using the City's Sewer Model.'
Section 6	6.02 .1	Added: 'Average Dry Weather Flow'
Section 6	6.02 .1	Changed: 'AWDF' to 'ADWF'
Section 6	6.03 .4	Removed: 'For new development, replace existing mains that front the proposed developments or are within areas of proposed road works if the flow exceeds 50% of diameter or it does not meet the minimum pipe diameter requirement. (REVISED MAY 2020)'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 6	6.03 .5 (revised part of 6.03 .4)	Added: 'For new developments, existing sanitary sewer mains that front the proposed development or are located within areas of proposed roadworks shall be replaced if either of the following conditions is met:'
Section 6	6.03 .5 (a) (new)	Added: 'The calculated flow exceeds 50% of the pipe's full diameter capacity, or'
Section 6	6.03 .5 (b) (new)	Added: 'The existing pipe does not meet the minimum diameter requirements specified in 6.03.1.'
Section 6	6.03 .6 (new)	Added: 'Applicants are required to assess downstream sewer capacity as part of the design process. If the present Peak Wet Weather Flow (PWWF) with 1:5 Annual Exceedance Probability (20% AEP) rain, including the flows from the proposed development exceeds 0.85 of the hydraulic capacity of the pipe (Q full) in any downstream segment, upsizing of the affected sewer infrastructure will be required to meet the Peak Design Sewage rates per Section 6.01A'
Section 6	6.03 .7 redesignated 6.03 .5	Changed: 'Service connections shall be 100 mm in diameter minimum. Service connections to other than single family dwellings shall be minimum 150 mm diameter in accordance with design flows and available grades. Water and sewer services in a common trench shall be in accordance with the requirements of the Ministry of Health.' to 'Service connections shall be 100 mm in diameter minimum for residential developments up to four units in accordance with design flows and available grades. Service connections to for industrial, institutional, commercial and multi-unit residential larger than four units shall be minimum 150 mm diameter in accordance with design flows and available grades. Existing service connections to lots may be used subject to the approval of the City Engineer, the City Engineer will only consider services that meet the following conditions:'
Section 6	6.03 .7 (a) (new)	Added: 'the pipe material is PVC, or HDPE'
Section 6	6.03 .7 (b) (new)	Added: 'the hydraulic capacity of the service has been confirmed, and is at least as large as upstream'
Section 6	6.03 .7 (c) (new)	Added: '(c) The condition of the service has inspected with CCTV and is free from defects.'
Section 6	6.03 .8 redesignated part of 6.03 .5	Added: 'Water and sewer services in a common trench shall be in accordance with the requirements of the Ministry of Health'
Section 6	6.03 .9 redesignated 6.03 .6	Redesignated numbering

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 6	6.04 .1 (b)	Changed: 'road' to 'roadway'
Section 6	6.04 .1 (b)	Changed: 'untraveled' to 'untravelled'
Section 6	6.04 .3 (b)	Changed: 'Provincial Department of Health' to 'Regional Health Authority'
Section 6	6.04 .3 (d)	Added: reference Section 4.0
Section 6	6.04 .3A (a)	Changed: 'road' to 'street'
Section 6	6.04 .4 (a)	Added: ' The service alignment will be perpendicular to the main.'
Section 6	6.04 .4 (a)	Changed: '30 m' to '15 m'
Section 6	6.04 .4 (b)	Changed: 'directed by the Engineer' to 'approved by the City Engineer'
Section 6	6.04 .5	Changed: 'Engineer' to 'Professional of Record'
Section 6	6.04A .3	Changed: 'at the discretion of the City Engineer' to 'if approved by the City Engineer'
Section 6	6.04A .3	Changed: 'Cleanouts may not be substituted for manholes...' to 'Cleanouts shall not be used. Where there is development phasing or servicing required for lands beyond, a stub complete with a watertight cap must be provided'
Section 6	6.04A .4 (a)	Changed: 'at the discretion of the City Engineer' to 'if approved by the City Engineer'
Section 6	6.04A .9	Changed: ' City staff' to ' City Engineer'
Section 6	6.05 .1	Changed: ' Provincial Health Branch' to 'Regional Health Authority'
Section 6	6.05 .2	Changed: ' City staff' to ' City Engineer'
Section 6	6.06A .1 (c)	Changed: 'Consultant' to 'Professional of Record'
Section 6	6.06A .10 (b)	Changed: 'Engineer' to 'City Engineer'
Section 6	6.06A .10 (b)	Changed: 'road' to 'street'
Section 6	6.06A .12 (a)	Changed: 'at the discretion of the City Engineer' to 'if approved by the City Engineer'
Section 6	6.06A .13 (a)	Changed: 'subject to the Engineer's approval' to 'need approval by the City Engineer'
Section 6	6.06A .15 (b) (i)	Changed: 'Consultant' to 'Professional of Record'
Section 6	6.06A .15 (b) (i)	Changed: 'sealed' to 'authenticated'
Section 6	6.06A .15 (b) (ii)	Changed: 'Engineer' to 'Professional of Record'
Section 6	6.06A .15 (b) (iii)	Changed: 'Engineer' to 'City Engineer'
Section 6	6.06A .15 (b) (v)	Changed: 'multi-family' to 'multi-unit residential'
Section 6	6.06A .16 (a) (v)	Changed: 'single family residential unit' to 'single residential unit'
Section 6	6.06A .16 (a) (vi)	Changed: 'Engineer' to 'City Engineer'
Section 6	6.06A .16 (a) (vi)	Changed: 'Engineer' to 'Professional of Record'
Section 6	6.06A .18 (a)	Changed: 'BC Plumbing Code' to 'National Plumbing Code of Canada'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 6	6.06A .18 (b)	Changed: 'Engineer or Plumbing Inspector' to 'Professional of Record'
Section 6	6.06A .20 (a)	Changed: 'single-family and duplex residential service' to 'single and two unit residential service'
Section 6	6.06A .20 (b)	Changed: 'multi-family' to 'multi-unit residential'
Section 6	6.06A .21 (b)	Changed: 'Engineer' to 'Professional of Record'
Section 6	6.06A .21 (d)	Changed: 'Engineer' to 'City Engineer'
Section 6	6.06A .21 (h)	Changed: 'multi-family' to 'multi-unit residential'
Section 6	6.06A .3 (c)	Changed: 'BC Plumbing Code' to 'National Plumbing Code of Canada'
Section 6	6.06A .4 (a)	Changed: 'Engineer' to 'Professional of Record'
Section 6	6.06A .6 (a)	Changed: 'Engineer' to 'City Engineer'
Section 6	6.06A .8 (a) (i)	Changed: 'single family residential areas' to 'single residential areas'
Section 6	6.06A .8 (a) (i) 1.	Changed: 'single family residential areas' to 'single residential areas'
Section 6	6.06A .8 (b)	Changed: 'multi-family' to 'multi-unit residential'
Section 6	6.06A .8 (b) (i)	Changed: 'single family residential areas' to 'single residential areas'
Section 6	6.21 .1	Changed: 'Engineer' to 'City Engineer'
Section 6	6.21 .1	Changed: 'Engineer' to 'Professional of Record'
Section 6	6.21 .2	Changed: 'Engineer' to 'Professional of Record or City Engineer'
Section 6	6.21 .3	Changed: 'Engineer' to 'City Engineer'
Section 6	6.21 .4	Changed: 'Engineer' to 'City Engineer'
Section 6	6.21 .4 (a)	Changed: 'Engineer' to 'City Engineer'
Section 6	6.22 .3 (b) (i)	Changed: 'dia.' to 'diameter'
Section 6	6.22A .3 (b) (i)	Changed: 'dia.' to 'diameter'
Section 6	6.24 .2 (b)	Added: 'Where pipe saddles have been installed without written approval the City will require removal and reinstatement with an acceptable installation.'
Section 6	6.28	Changed: 'steps' to 'rungs'
Section 6	6.28 .1	Changed: 'steps' to 'rungs'
Section 6	6.28 .2	Changed: 'steps' to 'rungs'
Section 6	6.31 .2	Changed: 'roads' to 'roadways'
Section 6	6.32 .1	Changed: 'at the discretion of the City Engineer' to 'if approved by the City Engineer'
Section 6	6.35 .1	Changed: 'Engineer' to 'City Engineer'
Section 6	6.37 .1	Changed: 'at the discretion of the City Engineer' to 'if approved by the City Engineer'

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Section 6	6.40A .1	Changed: 'must be approved by the Engineer' to 'if approved by the City Engineer'
Section 6	6.40A .2	Changed: 'Unless otherwise direct for the Engineer' to 'unless approved by the City Engineer'
Section 6	6.42 .4	Changed: 'doe' to 'due'
Section 6	6.42 .4	Changed: 'though' to 'through'
Section 6	6.46 .1	Changed: 'Engineer' to 'City Engineer'
Section 6	6.47 .1	Changed: 'authorized' to 'approved'
Section 6	6.47 .1	Changed: 'City of Nanaimo' to 'City'
Section 6	6.48 .3 (a) (vii)	Changed: 'inspected by the Engineer' to 'reviewed by Professional of Record'
Section 6	6.49 .2	Changed: 'Engineer' to 'Professional of Record'
Section 6	6.51 .4	Changed: 'unless approved by the Engineer' moved to end of sentence
Section 6	6.53 .2 (b)	Added: 'For capital projects and where asphalt is less than five years old full lane patching is required for adjustment or replacement of manholes. requirement for full lane patching.'
Section 6	6.54	Changed: 'steps' to 'rungs'
Section 6	6.54 .1	Changed: 'circumstance dictates otherwise in which case approval must be received from the Engineer' to 'approved by the City Engineer'
Section 6	6.54 .1	Changed: 'steps' to 'rungs'
Section 6	6.54 .2	Changed: 'steps' to 'rungs'
Section 6	6.54 .3	Changed: 'steps' to 'rungs'
Section 6	6.54 .4	Changed: 'steps' to 'rung'
Section 6	6.56 .1	Changed: 'Engineer' to 'City Engineer'
Section 6	6.59 .1 (a)	Changed: 'Engineer' to 'approved plans'
Section 6	6.59 .3 (i)	Changed: 'Engineer' to 'Professional of Record'
Section 6	6.60 .1	Changed: 'City of Nanaimo Inspector' to 'City Inspector'
Section 6	6.60 .1	Changed: 'satisfaction of the Engineer' to 'acceptance by the Professional of Record'
Section 6	6.60 .3	Changed: 'Engineer and the City of Nanaimo Inspector' to 'Inspector'
Section 6	6.60 .4	Changed: 'Engineer and the City of Nanaimo Inspector' to 'Inspector'
Section 6	6.60 .5	Changed: 'City of Nanaimo Inspector' to 'City Inspector'
Section 6	6.60 .5	Removed: 'or by the City of Nanaimo CCTV contract administrator'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 6	6.60 .7	Changed: 'by the CCTV contract administrator's approved alternative' to 'alternatively, approved by City Engineer'
Section 6	6.60 .8	Changed 'City of Nanaimo CCTV contract administrator' to 'City Engineer'
Section 6	6.62 .2 (a)	Changed: 'Engineer' to 'City Engineer'
Section 6	6.62 .2 (b)	Changed: 'Engineer' to 'City Engineer'
Section 6	6.62 .3 (a)	Changed: 'Engineer' to 'City Engineer'
Section 6	6.62 .4 (h)	Changed: 'Engineer' to 'City Engineer'
Section 6	6.62 .4 (h)	Changed: 'satisfaction of' to 'acceptance by'
Section 6	6.62 .4 (i)	Changed: 'Engineer' to 'City Engineer'
Section 6	6.62 .5	Changed: 'Engineer' to 'City Engineer'
Section 6	6.64 .2	Changed: 'Engineer' to 'City Engineer'
Section 6	6.64 .2	Changed: 'satisfaction of' to 'acceptance by'
Section 6	6.64 .2	Removed: 'of Nanaimo'
Section 6	6.64 .4	Changed: 'Engineer' to 'City Engineer'
Section 6	6.64 .5	Changed: 'The Engineer' to 'Professional of Record'
Section 6	6.64 .6	Changed: 'agency' to 'testing agency'
Section 6	6.64 .7	Changed: 'Engineer' to 'City Engineer'
Section 6	6.64 .7	Changed: 'Engineer' to 'Professional of Record'
Section 6	6.65 .1	Changed: 'Engineer' to 'Professional of Record'
Section 6	6.65 .1	Removed: 'of Nanaimo'
Section 6	6.65 .2	Changed: 'Engineer' to 'Professional of Record'
Section 6	6.65 .2	Removed: 'of Nanaimo'
Section 6	6.66 .2	Changed: 'Engineer' to 'Professional of Record'
Section 6	6.66 .3	Removed: 'of Nanaimo'
Section 6	6.67 .1	Removed: 'of Nanaimo'
Section 6	Std.Dwg. S-2 (rev)	Changed [Note 3]: 'FOR FRAME AND COVER DETAILS SEE STD DWG S-9' to 'FOR COVER LETTERING AND BOLTING REQUIREMENTS REFER TO STD. DWG. S-9 OR S-15. FOR FRAME AND RING REFER TO STD. DWG. S-10'
Section 6	Std.Dwg. S-2 (rev)	Changed (in label): 'May 2020' to 'Edition 15'
Section 6	Std.Dwg. S-2 (rev)	Removed (in label): 'MAY 2020'
Section 6	Std.Dwg. S-3 (rev)	Changed [in label]: 'May 2020' to 'Edition 15'

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Section 6	Std.Dwg. S-3 (rev)	Changed [in labels]: 'DROP PIPING TO BE 200Ø MIN. EXCEPT IF MAIN IS LESS THAN 200Ø DROP PIPING TO EQUAL MAIN.' to 'DROP PIPE CAN BE ONE NOMINAL PIPE SIZE LESS THAN MAIN PIPE BUT NOT LESS THAN 200Ø'=> [Std.Dwg. S-3 (rev)]
Section 6	Std.Dwg. S-3 (rev)	Removed (in label): 'MAY 2020'
Section 6	Std.Dwg. S-5 (rev)	Changed [in label]: 'May 2020' to 'Edition 15'
Section 6	Std.Dwg. S-5 (rev)	Changed [Note 5]: 'BC Plumbing Code' to 'National Plumbing Code'=> [Std.Dwg. S-5 (rev)]
Section 6	Std.Dwg. S-5 (rev)	Removed (in label): 'MAY 2020'
Section 6	Std.Dwg. S-8 (rev)	Added to [in label]: 'PRIOR TO FINAL INSPECTION'
Section 6	Std.Dwg. S-8 (rev)	Added to [in label]: 'REMOVE'
Section 6	Std.Dwg. S-8 (rev)	Changed [in label]: 'May 2020' to 'Edition 15'
Section 6	Std.Dwg. S-8 (rev)	Removed to [in label]: 'NOV 2016'
Section 6	Std.Dwg. S-8A (rev)	Added to [in label]: 'PRIOR TO FINAL INSPECTION'
Section 6	Std.Dwg. S-8A (rev)	Added to [in label]: 'REMOVE'
Section 6	Std.Dwg. S-8A (rev)	Changed [in label]: 'May 2020' to 'Edition 15'
Section 6	Std.Dwg. S-8A (rev)	Removed to [in label]: 'NOV 2016'
Section 6	Std.Dwg. S-9	Replaced: Replaced S-9 in its entirety
Section 6	Std.Dwg. S-10 (rev)	Added to [in label]: 'FRAME AND RING'
Section 6	Std.Dwg. S-10 (rev)	Changed [in label]: 'May 2020' to 'Edition 15'
Section 6	Std.Dwg. S-10 (rev)	Changed [in title]: 'FRAME RING AND COVER' to 'FRAME AND RING'
Section 6	Std.Dwg. S-10 (rev)	Removed to [in label]: 'FRAME RING AND COVER'
Section 6	Std.Dwg. S-10 (rev)	Removed to [in label]: 'NOV 2016'
Section 6	Std.Dwg. S-10 (rev)	Added to (in label): 'FRAMES INSTALLED ON 600Ø BARRELS SHALL NOT HAVE RIB'
Section 6	Std.Dwg. S-10 (rev)	Added to (in label): 'FRAME'
Section 6	Std.Dwg. S-12 (rev)	REMOVED: Std.Dwg. S-12 (rev)
Section 6	Std.Dwg. S-14	Changed [in label]: 'May 2020' to 'Edition 15'
Section 6	Std.Dwg. S-15 (rev)	Added to [in label]: 'HEAVY DUTY MANHOLE COVER (SEE STD DWG S-9) '
Section 6	Std.Dwg. S-15 (rev)	Changed [in label]: 'May 2020' to 'Edition 15'
Section 6	Std.Dwg. S-15 (rev)	Removed to [in label]: 'NOV 2016'

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Section 6	Std.Dwg. S-15 (rev)	Removed to [in label]: 'REFERRING TO "CITY OF NANAIMO SANITARY SEWER" LETTERING SHALL BE 25 FLATTENED FACE GOTHIC WITH FACE OF LETTERS RAISED TO THE SAME LEVELS AS THE TOP OF THE RIBS'
Section 6	Std.Dwg. S-18 (rev)	Changed (in label): 'May 2020' to 'Edition 15'
Section 7	7.0 _TOC	Changed: 'Steps' to 'Ladder Rungs'
Section 7	7.0 _TOC	Removed: 'Temporary Cleanouts'
Section 7	7.0 _TOC	Changed: 'Cover and Frame' to 'Utility Cover'
Section 7	7.0 _TOC	Changed: 'Ring and Cover' to ', and Ring'
Section 7	7.0 _TOC	Removed: 'Temporary Storm Cleanout Structure'
Section 7	7.01 .1 (a) redesignated paragraph	Clause number
Section 7	7.01 .1 (a)	Changed: 'under' to 'for'
Section 7	7.01 .1 (b) (new)	Added: 'For Defined Terms refer to Section 2.01'
Section 7	7.01 .2 (a)	Changed: 'aquatic' for 'environment'
Section 7	7.01 .2 (b)	Changed: 'year' to 'Annual Exceedance Probability (AEP) or (1% AEP)'
Section 7	7.01 .2 (b)	Changed: 'overland' to 'overland flow path'
Section 7	7.01 .2 (c)	Changed: 'year' to 'AEP (20% AEP)'
Section 7	7.01 .2 (d)	Reworded: 'Rainwater Management Best Management Practices (BMP) – To mimic the natural conditions of a naturalized undeveloped land by reducing impervious area, retaining trees and tree canopy, and infiltrating frequent rain events.'
Section 7	7.01 .2 (e)	Changed: 'receiving waters' to 'groundwater or receiving waters (streams creeks ditches lakes wetlands ocean).'
Section 7	7.01 .2 (f) (new)	Added: Protection of Environmentally Sensitive Areas (ESAs) – To protect ESAs including leave strip areas from development impacts. Prioritize avoidance of negative impacts restoration and enhancement of Environmentally Sensitive Areas.
Section 7	7.01 .2 (g) (new)	Added: Consideration for the Blue and Green Network of parks watercourse water bodies greenways and urban tree canopy to enhance habitat connectivity and ecosystem. (OCP Bylaw 6600)
Section 7	7.01 .3	Changed: 'City Bylaw' to 'City Authority and Bylaws'
Section 7	7.01 .3 (a) redesignated paragraph	Redesignated: Clause assigned

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Section 7	7.01 .3 (a)	Removed: 'Stormwater Management in Nanaimo'
Section 7	7.01 .3 (b)	Removed
Section 7	7.01 .3 (c)	Removed: 'Other bylaws pertaining to stormwater as listed in Section 3.01(c) City Bylaws'
Section 7	7.01 .3 (a) (i) (new)	Added: 'Subdivision and Development Standards Bylaw'
Section 7	7.01 .3 (a) (ii)	Changed: 'Official Community Plan' to 'City Plan Official Community Plan.'
Section 7	7.01 .3 (a) (iii) (new)	Added: 'Stormwater Management. Council Policy.'
Section 7	7.01 .3 (a) (iv) (new)	Added: 'Ditch/Swale. Council Policy.'
Section 7	7.01 .4 (a) redesignated paragraph	Redesignated: Clause assigned
Section 7	7.01 .4 (a)	Changed: 'other applicable government policies' to 'other commonly applicable government acts, regulations, policies'
Section 7	7.01 .4 (a) (ii) redesignated 7.01 .4 (b)	Changed: 'Provincial Fish Protection Act' to 'Riparian Areas Protection Act and Riparian Areas Protection Regulation'
Section 7	7.01 .4 (a) (iii) new	Added: 'Water Sustainability Act and Water Sustainability Regulation'
Section 7	7.01 .4 (d) (removed)	Removed: '(d) Stormwater Source Control Guidelines 2012 – Metro Vancouver'
Section 7	7.01 .4 (a) (iv) redesignated 7.01 .4 (c)	Redesignated
Section 7	7.01 .4 (a) (v) redesignated 7.01 .4 (e)	Changed: 'Stormwater Planning: A Guidebook for British Columbia' to 'Stormwater Planning: A Guidebook for British Columbia, Ministry of Water, Land and Air Protection'
Section 7	7.01 .4 (a) (vi) (new)	Added: 'Requirements and Best Management Practices for Making Changes in and About a Stream in British Columbia, Government of British Columbia.'
Section 7	7.01 .5 (a) redesignated paragraph	Redesignated section and created subsections (a) through (e)
Section 7	7.01 .5 (a)	Changed: 'The City of Nanaimo' to 'The City's'
Section 7	7.01 .5 (c)	Changed: 'When replacing existing infrastructure, should the existing system' to 'When evaluating existing infrastructure and watercourses, where the existing system does not meet current criteria, the Professional of Record will provide a risk assessment and professional recommendations for consideration by the City Engineer.'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 7	7.01 .5 (d) new	Added: 'Pre-development is defined as a natural state:' and subsections (i) through (iii)
Section 7	7.01 .5 (e) new	Added: 'Post-development is the proposed development'
Section 7	7.01 .6	Changed: 'Development Requirements:' to 'Development Requirements (Responsibilities and Reporting):'
Section 7	7.01 .6 (a) (removed)	Removed: 'Responsibilities:'
Section 7	7.01 .6 (a) redesignated paragraph	Changed: 'Development proponents shall be' to 'Applicants and their agent, a Professional of Record, are responsible for designing stormwater systems that align with the objectives in Section 7.01.2'
Section 7	7.01 .6 (b) removed	Removed: 'Reporting:'
Section 7	7.01 .6 (b) resigned	Added: 'Drainage works design must comply...'
Section 7	7.01 .6 (c) (removed)	Removed: 'Responsibilities:'
Section 7	7.01 .6 (c) redesignated	Changed: 'Construction activities must be managed to' to 'Construction activities must manage and minimize the impact to connected watercourses as set out in the <i>Storm Sewer Regulation and Fee Bylaw No. 7351</i> '
Section 7	7.01 .6 (d) redesignated	Changed: 'It is the Design Engineer's responsibility' to 'The Professional of Record is responsible for ensuring all applicable guidelines, standards, bylaws, and other regulations and policies are met.'
Section 7	7.01 .6 (e) redesignated	Changed: 'Development shall prepare a Stormwater Management Plan' to 'Stormwater Management Plan shall be prepared for subdivision, multi-use residential, commercial, industrial, and institutional developments, or as otherwise required by <i>Development Approval Information Bylaw No. 7346. Submit as a report that includes:</i> '
Section 7	7.01 .6 (e) (i) new	Added: 'A watershed location plan(s) showing:' and all sub-sections 1- 5.'
Section 7	7.01 .6 (e) (ii) redesignated	Changed: 'A tributary area plan outlining all areas' to 'A tributary catchment area plan(s) based on boundary conditions from the watershed location plan, with these additional details:' Added: sub-sections 1-4
Section 7	7.01 .6 (e) (iii)	Changed: 'An overall plan showing major and minor systems and rainwater management measures' to 'A detailed plan of the proposed development, based on base plan from the tributary area, that includes:'
Section 7	7.01 .6 (e) (iii) new	Added: Subsections 1 through 6

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Section 7	7.01 .6 (e) (iii) and (iv)	Removed
section 7	7.01 .6 (e) (v) redesignated to (iv)	Changed: 'A rationale explaining which method is chosen' to 'Methodology for analysis explaining the chosen hydrological and hydraulic and associated report...'
Section 7	7.01 .6 (e) (vi) redesignated to (v)	Changed: 'Summary tables provide the' to 'Summary tables for the plans provides the following key '
Section 7	7.01 .6 (v)	Changed: '(a)' to '1.', '(b)' to '2.', removed (c)
Section 7	7.01 .6 (v) 2.	Removed: 'under both pre and post development conditions.'
Section 7	7.01 .6 (vii) redesignated to (v) 4 & (v) 5	Removed: 'Design calculations including:'
Section 7	7.01 .6 (v) 4.	Added: ', to the plan limit boundary conditions as defined in Section 7.01.6e(i)3'
Section 7	7.01 .6 (v) 5. new	Added: 'Clearly identify non-conforming conditions. These include, but are not limited to, minor system drainage works that exceed capacity during...'
Section 7	7.01 .6 (viii) redesignated to (vi)	Changed: 'The report shall include details regarding the' to 'Water Quality- details on provisions address water quality leaving the site and entering the drainage system as per Section 7.14, using the criteria in Section 7.02'
Section 7	7.01 .6 (vii) (d) redesignated to (vii)	Removed: 'Design calculations for rainwater management best practices including the design volume and facility size.'
Section 7	7.01 .6 (vii)	Added: 'Capture with Retention - details on provisions to address volume control as per Section 7.02, through Rainwater Best Management Practices (BMP) as outlined in Section 7.13.'
Section 7	7.01 .6 (vii) (c) redesignated to (viii)	Changed: ' Design calculations for storage facilities including' to 'Runoff Rate Control - details for peak discharge control as per Section 7.03.6 and including design calculations for storage facilities including the required storage volume, design size and flow control considerations as per Section 7.12.'
Section 7	7.01 .6 (ix) new	Added: ' Non-conforming conditions require approval by the City Engineer,, as per Section 7.01.5 (c).'
Section 7	7.01 .6 (ix) resigned to (x)	Changed: 'an operation and maintenance plan' to 'a detailed operation and maintenance plan is required.'
Section 7	7.01 .6 (x)	Removed: 'shall be provided detailing the inspection and maintenance, an operation and maintenance plan shall be provided detailing the inspection and maintenance requirements.'

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Section 7	7.01 .6 (iii) redesignated to (xi)	Added: 'as per Section 1.05' and Changed: '5 year' to '1:5 AEP (20% AEP)' and '100 year' to '1:100 AEP (1% AEP)'
Section 7	7.01 .6 (x) redesignated to (xii)	Changed: 'All Stormwater Management Plans are to be by a Professional licensed in British Columbia' to 'All Stormwater Management Plans, reports and drawings that are relied upon are to be authenticated by a Qualified Registered Professional licensed in British Columbia.'
Section 7	7.02	Changed: 'Area' to 'Criteria'
Section 7	7.02 .1 (a)	Changed: 'A minor system conveyance capacity up to the 1:5 year return period to minimize inconvenience of frequent surface runoff.' to 'A minor system conveyance capacity using the 1:5 AEP (20% AEP) rainfall event in Section 7.03.3 and identified in Section 7.04.'
Section 7	7.02 .1 (b)	Changed: 'A major system conveyance capacity up to the 1:100 year return period to provide safe conveyance of flows to minimize damage to life and property.' to 'A major system conveyance capacity using the 1:100 AEP (1% AEP) rainfall event in Section 7.03.3 and identified in Section 7.05 '
Section 7	7.02 .1 (c)	Added: 'Depending on the habitat conditions such as fish and wildlife there may be other authorities having jurisdiction.'
Section 7	7.02 .1 (c)	Changed: ':Provide volume reduction, detention, ' to 'provide rainwater capture with retention' and 'To minimize erosion' to 'This minimizes erosion, protects'
Section 7	7.02 .1 (d)	Changed: 'volume reduction is not required; however, detention for the protection of downstream infrastructure may be required and water quality treatment' to 'rainwater capture with retention may not be required. However, runoff rate control may be required to protect downstream infrastructure '
Section 7	7.02 .1 (e)	Changed: ': Volume reduction: Retain infiltrate or reuse the 6 month 24 hour (50% of the 2 year 24 hour) post development runoff volume. For Nanaimo this equates to approximately 31mm of rainfall depth' to 'Capture with retention through Rainwater Best Management Practices (BMPs) to provide volume reduction and opportunities for infiltration, evaporation, reuse, or other approved method, as outlined in Section 7.13. '
Section 7	7.02 .1 (e) (i) through (iii) new	Added: subsections (i) through (iii)

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Section 7	7.02 .1 (g) redesignated to (f)	Changed: 'Provide water quality treatment for 90% of the average annual runoff (the 6 month, 24 hour storm or 50% of the 2 year, 24 hour storm) for impervious surfaces exposed to vehicle traffic as described in Section 7.14 – Water Quality. Remove 80% of Total Suspended Solids over 50µm particle size.' to 'Provide water quality treatment for 36 mm of rainfall, which is 90% of the average annual rainfall onto, impervious surfaces exposed to vehicle traffic as described in Section 7.14 – Water Quality [->]. The treatment performance is to remove 80% of Total Suspended Solids over 50 µm particle size.'
Section 7	7.02 .1 (g)	Removed: 'Detention: Detain post-development flows to pre-development levels for the 6 month, 24 hour (50% of the 2 year, 24 hour) event for areas draining to watercourses to minimize erosion. If downstream drainage system cannot accommodate the 5 year post-development flows, detain them to pre-development levels.'
Section 7	7.02 .1 (g)	Added: Control runoff rate using strategies like detention in storage facilities as per Section 7.12, with the calculations for storage as per Section 7.03.6.'
Section 7	7.02 .1 (h) new	Added: 'Protect the downstream receiving watercourse from erosion. If the watercourse is located in an environmentally sensitive...'
Section 7	7.02 .1 (h) redesignated to (i)	Redesignated
Section 7	7.03 .2	Changed: 'Areas' to 'and Impervious Areas'
Section 7	7.03 .2 (a) and (b) removed	Removed
Section 7	7.03 .2 (a) new	Added: 'Drainage catchments are governed by topography...', including adding subsections (i) through (iv)
Section 7	7.03 .2 (b) new	Added: 'The impervious area is a key driver in stormwater runoff. Depending on the calculation method, it may be embedded within another parameter...', including adding subsections (i) through (iii)
Section 7	7.03 .3 (a)	Added: 'to planning horizon Year 2100 see'
Section 7	7.03 .3 (a)	Changed: 'year return period' to 'annual exceedance probability (AEP)'
Section 7	7.03 .3 (a)	Removed: 'see Standard Drawing No. SW 25'
Section 7	7.03 .3 (b)	Changed: 'City staff' to 'the City' and 'individual engineer' to 'Qualified Registered Professionals'
Section 7	7.03 .3 (b)	Removed: 'of Nanaimo'

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Section 7	7.03 .3 (c) new	Added: 'Design Storms: The City has used various design storm hyetographs in hydrograph-based watershed studies. For consistency, it may be advisable to use the same...'
Section 7	7.03 .4 (a)	Changed: 'drainage basin' to 'drainage catchment area'
Section 7	7.03 .4 (b)	Changed: 'Design Engineer shall determine' to 'Qualified Registered Professionals is responsible to determine and document'
Section 7	7.03 .4 (b)	Changed: 'Overland flow times' to 'Overland flow path times'
Section 7	7.03 .4 (c)	Changed: 'shall be' to 'is'
Section 7	7.03 .5 (c)	Changed: 'shall be' to 'is' and 'drainage areas' to 'drainage catchment areas'
Section 7	7.03 .5 (c)	Removed: 'expected ultimate' and 'Selection of the runoff coefficient...'
Section 7	7.03 .5 (c)	Added: 'The following table provides a range of coefficient for land use conditions:'
Section 7	7.03 .5 (c) (iii)_Table redesignated 7.03 .5 (c) Table	Changed: 'Commercial Business Areas, Multi-Family' to 'Commercial Business Areas, Multi-Unit Residential'
Section 7	7.03 .5 (c) Table	Changed: 'Single Family' to 'Single Unit' and 'Multi-Family' to 'Multi-Unit Residential'
Section 7	7.03 .5 (c) Table	Added: 'Dense Forest, 0.05 to 0.15' and 'Light Forest, 0.15 to 0.25'
Section 7	7.03 .5 (c) Table	Removed: 'Note 1. Department of Fisheries and Oceans and the Ministry of Environment, Land Development. (1993). Guidelines for the Protection of Aquatic Habitat. Table 8-1 (REVISE? TBD 2025)'
Section 7	7.03 .5 (d)	Changed: 'two copies of' to 'for' and 'shall be' to 'must'
Section 7	7.03 .6 (a)	Changed: 'shall' to 'must' and Added: 'should be calibrated and'
Section 7	7.03 .6 (b)	Removed: 'of Nanaimo'
Section 7	7.03 .6 (d)	Changed: 'Design Engineer' to 'Qualified Registered Professional'
Section 7	7.03 .6 (f)	Changed: 'shall include' to 'includes'
Section 7	7.03 .6 (f) (v)	Changed: 'major and minor' to 'major system and minor system'
Section 7	7.03 .6 (f) (vi)	Changed: 'Summary hydrograph(s) of any storage or flow control facilities' to 'At storage or flow control facilities, the summary incoming and outgoing hydrographs and the stage discharge curve.'
Section 7	7.03 .6 (f) (vii)	Removed: 'at the point'
Section 7	7.03 .6 (f) (viii)	Changed: 'major and minor' to 'major system and minor system'
Section 7	7.03 .6 (f) (xii)	Added: (HGL)
Section 7	7.03 .7	Removed

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Section 7	7.03 .8	Removed
Section 7	7.03 .7 new	Added: 'Runoff Rate Control'
Section 7	7.03 .7 (a) through (d) new	Added: 'sections (a) through (d) and their sub-sections'
Section 7	7.04 .1	Changed: 'Definition' to 'Components and Conveyance'
Section 7	7.04 .1 (a)	Changed: 'shall' to 'must', '1:5 year design storm' to 'runoff from the 1:5 AEP (20% AEP) rainfall, as per Section 7.03.3', and 'ditches, etc.,' to 'ditches, driveway culverts and other appurtenances.'
Section 7	7.04 .2 (a) new	Changed: 'The minor system shall normally be located' to 'The minor system is typically located in the right-of-way.'
Section 7	7.04 .2 (b) new	Changed: 'the flow route shall' to 'the utility corridor must be preserved by statutory right-of-way and/or restrictive covenants for ease'
Section 7	7.04 .3	Removed: 'Trunk Storm Sewers:'
Section 7	7.04 .3 new	Added: 'Surcharge and Hydraulic Grade Line (HGL):' and subsections '(a) through (f)'
Section 7	7.05 .1	Changed: ' Definition' to 'Components and Conveyance:'
Section 7	7.05 .1 (a)	Changed: 'The major system shall be designed to convey the, as per Section 7.03.03, 1:100 year design storm.' to 'The major system shall be designed to safely convey the runoff from the 1:100 AEP (1% AEP) rainfall, as per Section 7.03.3. Sources of runoff include outflows from the minor system, overland flows, storage facilities, lakes, wetlands and watercourses. The major system includes all drainage work, but is not limited to road crossing culverts, swales, ditches, roadways, overland flow paths, and watercourses.'
Section 7	7.05 .2	Changed: 'Location:' to 'Location of Overland Flow Paths:'

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Section 7	7.05 .2 (a)	Changed: 'Generally, the major system shall be overland flow paths where the design flow can be conveyed in public road...' to 'Generally, the major system overland flow paths are conveyed in public road right-of-way and adequate watercourses. Where adequate overland flow paths cannot be established, pipes, and ditch culverts of the minor system may be increased to convey the major flows, subject to approval of the City Engineer. If the runoff from major flows is conveyed in a piped system, an alternate overland flow path shall be provided to ensure redundancy in the case of blockages or rainfall events that exceed the system capacity.'
Section 7	7.05 .2 (b)	Changed: 'flow is accommodated by a public street roadway' to 'flow may be conveyed by a public roadway', 'shall' to 'must', and 'Planning the major drainage system shall be done...' to 'Planning for street layout, roadway grades and the drainage system must be coordinated to ensure the street functions as part of the major drainage system.'
Section 7	7.05 .2 (c)	Changed: 'When major flow is overland through private property' to 'When an overland flow path crosses private property, the flow route must be..', and 'for ease of' to 'to ensure'
Section 7	7.05 .2 (d)	Changed: 'shall' to 'must'
Section 7	7.05 .2 (e)	Removed: 'the storm sewer system must be designed to be the major system and sized to convey the major design storm to the outlet.'
Section 7	7.05 .2 (e)	Added: 'the Professional of Record shall notify the City Engineer and provide a risk assessment and recommendations as per Section 7.01 5(c)'
Section 7	7.05 .2 (f)	Changed: 'Where the major flow is accommodated through the storm sewer system, additional catch...' to 'Where surcharge from the minor system results in major system flow on the roadway, additional catch basins may be required to ensure the flow can be recaptured by the minor system, as per Section 7.06.12.'
Section 7	7.05 .3 (a)	Changed: 'shall' to 'must'
Section 7	7.05 .3 (a)	Added: ', as per Section 7.02. Typically, flow', and 'For design refer to Section 7.11, and for specifications, refer to Section 7.33 [→].'
Section 7	7.05 .3 (b)	Removed: 'When improvements are required to a natural watercourse...'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 7	7.05 .4 (a)	Removed: 'for' and 'Any allowances for minor inconvenience flooding shall be mentioned...'
Section 7	7.05 .4 (a)	Changed: 'but no' to 'However', 'or' to 'of', 'must' to 'shall', 'from' to 'of'
Section 7	7.05 .4 (a)	Added: 'The Professional of Record must document non-conforming conditions as per Section 7.1.5 (c).'
Section 7	7.05 .4 (b)	Changed: 'shall' to 'are to'
Section 7	7.05 .4 (c)	Changed: 'must' to 'shall'
Section 7	7.05 .4 (c)	Added: 'If buildings or service connections are found to be non-conforming, the Professional of Record must notify the City Engineer and may be required to provide a risk assessment and recommendations as per Section 7.01.5 (c).'
Section 7	7.05 .4 (c)	Removed: 'No building shall have the bottom of its foundation less...'
Section 7	7.05 .4 (e)	Changed: 'shall' to 'must'
Section 7	7.05 .5 (a)	Changed: 'road is used to accommodate major flow' to 'roadway functions as part of the major system'
Section 7	7.05 .5 (a) (i)	Changed: 'road' to 'roadway', and '50mm' to '50 mm'
Section 7	7.05 .5 (a) (ii)	Changed: 'neighborhood collectors, minor collectors, major collectors and arterial roads,' to 'mobility arterial, mobility collector, urban arterial and urban collector streets,' and 'road shall' to 'roadway must'
Section 7	7.05 .5 (a) (iii)	Changed: 'roads' to 'roadway'
Section 7	7.05 .5 (a) (iv)	Changed: 'road' to 'roadway' and Added: ' when'
Section 7	7.05 .5 (a) (vi)	Removed: 'Type 2 driveway letdowns shall be avoided as shown in Standard Drawing No. CS-5A'
Section 7	7.05 .5 (a) (vi)	Changed: ' downhill' to 'down slope'
Section 7	7.05 .5 (b)	Removed: 'When the street forms part of the major...'
Section 7	7.05 .5 (c) redesignated to (b)	Changed: 'shall' to 'can'
Section 7	7.05 .6 new	Added: 'Surcharge and 1:100 AEP Hydraulic Grade Line (HGL):'
Section 7	7.05 .6 (a) through (g)	Added: all subsections
Section 7	7.06 .1 (a)	Changed: 'shall' to 'must'
Section 7	7.06 .1 (b)	Removed: 'of the design flow'
Section 7	7.06 .1 (b)	Changed: 'shall' to 'must'
Section 7	7.06 .1 (b)	Added: 'For specifications, refer to Section 7.33 [→]. '

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 7	7.06 .1 (c)	Changed: 'shall' to 'must'
Section 7	7.06 .1 (d)	Changed: '100mm' to '100 mm' and 'shall' to 'are to'
Section 7	7.06 .2 (a)	Changed: 'shall' to 'must', 'in' to 'for', and 'sewer provided it' to 'sewer if:'
Section 7	7.06 .2 (a)	Added: 'pipe'
Section 7	7.06 .2 (a) (i)	Changed: 'the required' to 'the pipe has the'
Section 7	7.06 .2 (a) (i) redesignated to (ii)	Changed: 'extension in the future is precluded by' to 'future extension is not possible due to', and 'is existing alternate pick up' to 'is an existing alternate drainage connection for adjacent areas.'
Section 7	7.06 .2 (b)	Changed: 'shall be' to 'are to'
Section 7	7.06 .2 (c)	Changed: 'shall be' to 'are a' and 'except service connections servicing lawn basins shall be' to 'or larger as required by site conditions'
Section 7	7.06 .2 (d)	Changed: 'shall be' to 'are a'
Section 7	7.06 .2 (d)	Added: ', or larger as required by site conditions.'
Section 7	7.06 .2 (e)	Added: 'Service connections servicing lawn basins are a 150 mm diameter, or larger as required by site conditions.'
Section 7	7.06 .3 (a)	Changed: 'Design Engineer shall' to 'Professional of Record will'
Section 7	7.06 .3 (a)	Changed: 'shall' to 'must'
Section 7	7.06 .3 (a)	Changed: 'City of Nanaimo' to 'City's'
Section 7	7.06 .4 (a)	Changed: 'shall' to 'are to' and 'shall be' to 'is'
Section 7	7.06 .5 (a) (i)	Changed: 'road right-of-way' to 'right-of-way', and 'shall' to 'are to'
Section 7	7.06 .5 (a) (ii)	Changed: 'shall' to 'are to'
Section 7	7.06 .5 (a) (iii)	Changed: 'shall' to 'are to'
Section 7	7.06 .5 (a) (iv)	Changed: 'shall' to 'must'
Section 7	7.06 .5 (b)	Changed: 'shall' to 'must', 'to accommodate by' to 'for gravity flow from' and 'graded in such a way' to 'graded to prevent'
Section 7	7.06 .5 (c)	Changed: 'Design Engineer' to 'Professional of Record'
Section 7	7.06 .5 (c)	Changed: 'In addition, all existing foundation drains shall be accommodated' to 'All existing foundation drains must be connected', 'shall also be deep enough to accommodate by' to 'must be deep enough to allow gravity flow from'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 7	7.06 .5 (d)	Changed: 'Storm Sewer mains shall be deep enough that all service' to 'Storm water sewers must be deep enough so that', 'accommodating' to 'for', 'basin can be drained to the storm sewer' to 'catchment can drain to the storm water'
Section 7	7.06 .6 (d)	Changed: 'shall' to 'must'
Section 7	7.06 .7	Changed: 'Location of Storm Sewer' to 'Location of Stormwater'
Section 7	7.06 .7 (a)	Changed: 'normal' to 'typical'
Section 7	7.06 .7 (a)	Changed: 'shall be located not less than' to 'Stormwater mains offsets from all watermains must be in accordance...'
Section 7	7.06 .7 (a)	Added: 'in Section 8.0'
Section 7	7.06 .7 (b)	Changed: 'shall' to 'are to'
Section 7	7.06 .7 (c)	Changed: 'shall' to 'must' and 'shall' to 'are to'
Section 7	7.06 .8 (a) through (g) redesignated	Redesignated: '(a) to (g)' is now '(a) with subsections (i) through (iv) and '(b) to (d)'
Section 7	7.06 .8 (a)	Changed: 'shall' to 'must'
Section 7	7.06 .8 (a) (i)	Changed: 'shall' to 'must' and Removed: 'shall'
Section 7	7.06 .8 (a) (ii)	Changed: 'shall generally' to 'must'
Section 7	7.06 .8 (a) (iii)	Changed: 'shall' to 'must' and 'shall not' to 'cannot'
Section 7	7.06 .8 (a) (iv)	Changed: 'shall not' to 'cannot'
Section 7	7.06 .9 (a)	Added: ' The service alignment will be perpendicular to the main.'
Section 7	7.06 .9 (a)	Changed: 'Shall be 30 m' to 'is 15 m', '30 m shall' to '15 m', and 'shall' to 'must'
Section 7	7.06 .9 (b)	Changed: 'multi-family' to 'multi-unit residential' and 'shall' to 'must'
Section 7	7.06 .9 (c)	changed: 'ever' to 'every'
Section 7	7.06 .10 (a)	Changed: 'shall' to 'must'
Section 7	7.06 .11 (a)	Changed: 'shall' to 'must'
Section 7	7.06 .11 (b)	Changed: 'shall' to 'must'
Section 7	7.06 .11 (c)	Added: ', if approved by the City Engineer,'
Section 7	7.06 .11 (d)	Changed: 'shall' to 'must' x3 and 'shall' to 'are to'
Section 7	7.06 .11 (d) Table	Changed: 'inv.' to 'Invert'
Section 7	7.06 .11 (e)	Changed: 'shall be submitted to' to ',require approval from the City Engineer'
Section 7	7.06 .11 (f)	Changed: 'shall' to 'must' x3 and 'shall' to 'are to'
Section 7	7.06 .11 (g)	Changed: 'shall' to 'are to'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 7	7.06 .11 (h)	Changed: 'shall be' to 'are'
Section 7	7.06 .12 (a)	Changed: 'shall' to 'are to'
Section 7	7.06 .12 (b)	Changed: 'shall' to 'must' and 'shall' to 'can'
Section 7	7.06 .12 (c)	Changed: 'roads' to 'roadways'
Section 7	7.06 .12 (c) redesignated section to (d)	Moved: 'Location requirements for the different catch basin types shall conform to the following: '
Section 7	7.06 .12 (d)	Changed: 'shall' to 'must'
Section 7	7.06 .12 (d) (i)	Changed: 'shall' to 'are to' and 'roads' to 'streets'
Section 7	7.06 .12 (d) (ii)	Changed: 'shall' to 'are to' and 'road' to 'roadway'
Section 7	7.06 .12 (d) (iii)	Changed: 'shall' to 'may'
Section 7	7.06 .12 (d) (iii)	Added: unless otherwise approved by the City Engineer
Section 7	7.06 .12 (d) (iii)	Removed: 'at the discretion of the City Engineer'
Section 7	7.06 .12 (d) (iv) new	Changed: 'shall' to 'may'
Section 7	7.06 .12 (e) new	Added: 'Where the street roadway functions as part of the major system, catch basins must be provided...'
Section 7	7.06 .12 (d) redesignated to (f)	Redesignated
Section 7	7.06 .12 (f) (i) through (iv)	Removed: 'shall'
Section 7	7.06 .12 (f) (v)	Changed: 'double basin leads shall be' to 'Double catch basin leads must be joined using a wye fitting before connecting to the main.'
Section 7	7.06 .13	Changed: 'Surcharge' to 'Surcharge and Hydraulic Grade Line (HGL):
Section 7	7.06 .13 (a)	Added: 'Compliance limits for the Hydraulic Grade Line (HGL) are specified in Section 7.04 - Minor System, while HGL, surcharge, and flooding criteria are outlined in Section 7.05 - Major System.'
Section 7	7.06 .13 (a)	Removed: 'in areas of new construction, storm sewer pipes shall...'
Section 7	7.06 .13 (b)	Removed
Section 7	7.06 .14 (a)	Changed: 'shall be provided' to 'are as'
Section 7	7.06 .15 (a)	Changed: 'roads' to 'roadways' and 'road' to 'roadway'
Section 7	7.07 .1 (a)	Changed: 'shall' to 'must' and 'shall not' to 'cannot'
Section 7	7.07 .1 (b)	Changed: 'shall' to 'must'
Section 7	7.07 .1 (b)	Added: 'For additional design criteria Section 7.11 - Inlet and Outlet Structures . For specifications refer to Section 7.32 and Section 7.33'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 7	7.07 .2	Added: 'Crossing'
Section 7	7.07 .2 (a)	Changed: 'Road culverts shall be designed to accommodated the major system' to 'Road crossing culverts are part of the minor system and major system, refer to Section 7.04 and Section 7.05.'
Section 7	7.07 .2 (b)	Changed: 'Road culverts shall be minimum' to 'Road crossing culverts must be'
Section 7	7.07 .2 (c)	Changed: 'Road culverts of watercourses which are, or could be' to 'Road crossing culverts for watercourses that are, or may reasonably be expected to become, fish bearing, are designed to provide fish passage.
Section 7	7.07 .2 (c)	Added: 'Designs are to incorporate baffles and embedded fish gravel substrate (see Section 9.0) and, where practicable, utilize open-bottom culverts as the preferred option'
Section 7	7.07 .3 (a)	Changed: 'Driveway culverts shall be designed to accommodate the storm system' to 'Driveway culverts are designed as part of the minor system as per Section 7.04.'
Section 7	7.07 .3 (b)	Changed: 'shall' to 'must'
Section 7	7.08 .1	Changed: 'shall be' to 'are'
Section 7	7.08 .1	Added: 'right-of-way', 'flows as per Section 7.04' and 'flows as per Section 7.05'
Section 7	7.08 .2	Changed: 'shall' to 'are to'
Section 7	7.08 .3	Changed: 'shall' to 'must'
Section 7	7.08 .4	Changed: 'shall' to 'are to', and '1 1/2' to 1.5'
Section 7	7.08 .5	Changed: 'shall' to 'must'
Section 7	7.08 .6	Changed: 'shall be' to 'is limited to'
Section 7	7.09 .1	Changed: 'road allowances' to 'right-of-way'
Section 7	7.09 .1	Changed: 'shall be' to 'are to be'
Section 7	7.09 .2	Changed: 'shall be' to 'are to'
Section 7	7.09 .3	Removed: 'shall'
Section 7	7.09 .4	Changed: 'shall' to 'must'
Section 7	7.09 .5	Changed: 'shall' to 'should'
Section 7	7.10 .1	Changed: 'major' to 'major system'
Section 7	7.10 .1	Changed: 'shall be' to 'are'
Section 7	7.10 .2	Changed: 'shall' to 'must'
Section 7	7.10 .3	Changed: 'shall not' to 'cannot'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 7	7.10 .4	Changed: 'shall not' to 'cannot'
Section 7	7.10 .5	Changed: 'shall be' to 'are to'
Section 7	7.11 .1	Changed: 'shall be' to 'are', and 'shall be as per Section 7.07' to 'as per criteria in Section 7.04 - Minor System and Section 7.05 - Major System'
Section 7	7.11 .2	Changed: 'as' to 'at'
Section 7	7.11 .3	Changed: 'shall' to 'must'
Section 7	7.11 .5	Changed: 'shall' to 'are to'
Section 7	7.11 .6	Changed: 'shall' to 'must', 'shall' to 'are to' and 'Engineer shall' to 'Professional of Record must'
Section 7	7.11 .6	Added: 'concrete' and 'professional'
Section 7	7.11 .7	Changed: 'shall not' to 'cannot'
Section 7	7.11 .8	Changed: 'storm sewers having velocities in excess of' to 'storm systems where velocities may cause erosion in the receiving channel must include a method dissipate the energy, designed by a Professional of Record'
Section 7	7.11 .8	Added: 'For specifications, refer to Section 7.33 [->]. '
Section 7	7.11 .9	Changed: 'shall' to 'must' x2
Section 7	7.12 .1 (a)	Changed: 'shall be' to 'are' and 'major' to 'minor'
Section 7	7.12 .1 (b)	Changed: 'shall' to 'must'
Section 7	7.12 .1 (c)	Changed: 'shall' to 'are to'
Section 7	7.12 .1 (d)	Changed: 'sit' to 'site'
Section 7	7.12 .2 (a) paragraph	Removed: 'Single Family and Duplex'
Section 7	7.12 .2 (b)	Changed: 'multi-family' to 'multi-unit'
Section 7	7.12 .2 (b)_Paragraph_0	Changed: 'multi-family' to 'multi-unit'
Section 7	7.12 .3 (e)	Removed: 'of Nanaimo'
Section 7	7.12 .4 (a)	Changed: 'shall be tailored to suit the unique characteristics of the site and shall include' to 'are site specific and require'
Section 7	7.12 .4 (b)	Changed: 'shall be' to 'are to'
Section 7	7.12 .4 (c)	Changed: 'if the safety risks are minimized such as separating the area from the public or the pond being inaccessible due to vegetation. Slopes of 4H:1V vertical shall be used for 0.4m depth below water level to the bottom of the pond.' to 'with a risk assessment and mitigation.'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 7	7.12 .4 (c)	Changed: 'shall be' to 'are to'
Section 7	7.12 .4 (d)	Added: 'The crest of the surrounding berm must be at least 300 mm higher than the maximum water level expected during the 1% AEP overflow condition'
Section 7	7.12 .4 (d)	Changed: 'shall' to 'must'
Sectin 7	7.12 .4 (d)	Removed: 'with a freeboard of 300 mm under the 100 year storm conditions.'
Section 7	7.12 .4 (e)	Changed: 'shall be provided' to 'are preferred'
Section 7	7.12 .4 (e)	Changed: 'shall' to 'must'
Section 7	7.12 .4 (f)	Changed: 'shall' to 'must'
Section 7	7.12 .4 (g)	Added: ', see Section 7.05 [->]. '
Section 7	7.12 .4 (g)	Changed: 'shall' to 'must' x2
Section 7	7.12 .4 (h)	Added: 'To be verified by a Qualified Registered Professional especially when there is connectivity to Environmental Sensitive Areas.'
Section 7	7.12 .4 (h)	Changed: 'shall' to 'is to'
Section 7	7.12 .4 (i)	Changed: 'shall' to 'is to' and 'access shall allow the passage of' to 'access design must accommodate'
Section 7	7.12 .4 (i)	Added: 'of'
Section 7	7.12 .4 (j)	Changed: 'shall be' to 'are to'
Section 7	7.12 .4 (k)	Removed
Section 7	7.12 .4 (l) redesignated to (k)	Changed: 'shall be' to 'are to', 'easy' to 'safe'
Section 7	7.12 .4 (k)	Removed: "shall be provided"
Section 7	7.12 .4 (m) redesignated to (l)	Redesignated
Section 7	7.12 .4 (n)	Removed
Section 7	7.12 .5 (b)	Changed: 'shall' to 'are to'
Section 7	7.12 .6 (a)	Changed: 'calculated in the Stormwater Management Plan' to 'calculated based on Runoff Rate Control in Section 7.03.7'
Section 7	7.12 .6 (b)	Changed: 'shall' to 'must'
Section 7	7.12 .6 (c)	Changed: 'shall' to 'must'
Section 7	7.12 .6 (d)	Changed: 'shall' to 'are to'
Section	7.12 .6 (e)	Changed: '1 m/s' to '1.0 m/s'
Section 7	7.12 .6 (f)	Changed: 'shall' to 'must'
Section 7	7.12 .6 (g)	Changed: 'shall' to 'must'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 7	7.12 .6 (g)	Removed: 'easy and'
Section 7	7.13 .1_Paragraph_1	Added: '(BMP)'
Section 7	7.13 .1_Paragraph_1	Changed: ', has' to 'have', 'but to' to 'and', and 'were developed as' to 'are'
Section 7	7.13 .1_Paragraph_1	Removed: ', which is', and 'the overall'
Section 7	7.13 .1_Paragraph_2	changed: 'creek or river system' to 'watercourse'
Section 7	7.13 .1_Paragraph_2	Removed: 'For developments and re-developments which outlet into a creek or river system'
Section 7	7.13 .2 (c)	Changed: 'Nanaimo's' to 'the City's'
Section 7	7.13 .2 (g)	Changed: previous to pervious
Section 7	7.13 .2 (g)_Paragraph_0	Changed: previous to pervious
Section 7	7.13 .2 (i)	Removed: 'This is similar to detention, but the release is very low, at 0.25 L/s/ha. The water is released through a control orifice to the municipal minor drainage system.'
Section 7	7.13 .3 (a) new	Added: 'Refer to Section 7.02 for the Summary of Stormwater and Environmental Protection Design Criteria.'
Section 7	7.13 .3 (a) redesignated as (b)	Changed: 'Single Family and Duplex' to 'Residential'
Section 7	7.13 .3 (b) reworded completely	Removed: ' Due to a small lot size, limited oversight once developed, and potential for multiple owners and other aspects related residential subdivisions, the application of best management practices for Single Family and Duplex developments is limited to absorbent ...'
Section 7	7.13 .3 (b)	Added: 'Recent densification of residential zoning increases impervious coverage from roofs and driveways, resulting in higher runoff volumes to the storm system. For residential lots, the most practical rainwater best management practices (BMPs) include absorbent landscaping, pervious driveways and patios, and raingardens for localized infiltration. Where site constraints limit infiltration options, subsurface storage tanks with controlled release may be considered, subject to approval by the City Engineer.'
Section 7	7.13.3 (b)	Changed (b) to (c)
Section 7	7.13.3 (c)	Changed 'family' to 'unit'
Section 7	7.13.3 (c)	Changed 'to' to 'and'
Section 7	7.13.3 (c)	Changed 'family' to 'unit'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 7	7.13 .3 (c)	Changed (c) to (d)
Section 7	7.13.3 (d)	Changed 'residential developments (R10 Zoning)' to 'development, in Development Permit Area (DPA 6) and adjacent to Hazardous Slope (DPA 2)'
Section 7	7.13.3 (d)	Changed (d) to (e)
Section 7	7.13.3 (e)	Added 'and Development Permit Area (DPA 4)' after 'coal mines'
Section 7	7.13.4 (a)	Changed '2012' to '2023'
Section 7	7.13.4 (b)	Removed 'It can be complex and it is generally recommended that continuous simulation modeling be completed over an extended period of time (at least one year).'
Section 7	7.13.4 (b)	changed 'shall' to 'will'
Section 7	7.13.4 (b)	Added 'The professional of Record (or Qualified Registered Professional) must document the chosen approach and clearly demonstrate that the design meets the performance targets in Section 7.02.'
Section 7	7.13.4 (b)	Removed 'For sites where rainwater....'
Section 7	7.13.4 (c)	Added 'Hydraulic Conductivity rates are to be determined by a Qualified Registered Professional and be supported by site soil conductivity testing.'
Section 7	7.13.4 (c)	Removed 'For practices that infiltrate water into the ground....'
Section 7	7.13.4 (c)	Removed Table starting with 'Sand - 210.0 mm/hr to Clay - 0.6 mm/hr'
Section 7	7.13.4 (c)	Removed 'For detailed design purposes, onsite infiltration.....'
Section 7	7.13.4 (c)	Added 'when the facility cannot accommodate the full' and removed 'through the' [target infiltration volume] may not be able to be accommodated by the facility.'
Section 7	7.13.4 (d)	Added 'Seasonal groundwater levels are to be assessed when considering'
Section 7	7.13.4 (d)	changed 'rainwater' to 'Rainwater'
Section 7	7.13.4 (d)	Removed 'shall not be placed in areas....'
Section 7	7.13.4 (e)	Removed 'There shall be a minimum of 600 mm between ...'
Section 7	7.13.4 (f)	Changed 'shall' to 'must'
Section 7	7.13.4 (f)	Removed 'and must meet all Ministry of Health guidelines for separation of wells from septic fields'
Section 7	7.13.4 (f)	Added 'and comply with all applicable provincial requirements for groundwater protection and minimum separation distances....'
Section 7	7.13.4 (g)	Changed 'shall' to 'must'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 7	7.13.4 (g)	Changed 'which' to 'that'
Section 7	7.13.4 (g)	Changed 'shall' to 'must'
Section 7	7.13.4 (g)	Removed 'if necessary, prior to'
Section 7	7.13.4 (h)	Changed 'shall' to 'must'
Section 7	7.13.4 (h)	Changed 'Geotechnical Engineering and/or Hydrogeologist' to 'Qualified Registered Professional'
Section 7	7.13.4 (i)	Changed 'shall' to 'must'
Section 7	7.13.4 (i)	Changed 'geotectecnical engineer Professional of Record' to 'Qualified Registered Professional'
Section 7	7.13.4 (i)	Removed comma ', ' after Development Permit Areas
Section 7	7.13.4 (i)	Added '(DPA),' before 'DPA 3'
Section 7	7.13.4 (i)	Added 'a peer' before 'review'
Section 7	7.13.4 (i)	Added 'a Qualified Registered Professional, with specific expertise in hydrogeology'
Section 7	7.13.4 (i)	Removed 'often a Hydrogeologist or Geotechnical Engineer'
Section 7	7.13.4 (j)	Changed 'shall' to 'must'
Section 7	7.13.4 (k)	Added 'must' after 'The design'
Section 7	7.13.4 (k)	Removed 'shall of rainwater best management....'
Section 7	7.13.4 (k)	Added 'minimizes' and removed 'shall be minimized'
Section 7	7.13.4 (k)	Changed 'shall' to 'must'
Section 7	7.13.4 (l)	Changed 'shall' to 'must'
Section 7	7.13.4 (l)	Changed 'shall be paid to' to 'is needed during'
Section 7	7.13.4 (l)	Changed 'shall' to 'are to'
Section 7	7.14.1 (a)	Changed 'shall' to 'must' x 2
Section 7	7.14.2 (a)	Changed 'shall' to 'must'
Section 7	7.14.2 (b)	Removed 'shall'
Section 7	7.14.2 (b)	Add 'Remove 80% TSS over 50 µm particle size'
Section 7	7.14.2 (b)	Change 'or' to 'for'
Section 7	7.14.2 (c)	Removed 'or the 6 month, 24 hour post development flow volume'
Section 7	7.14.2 (c)	Change '31' to '36' before 'mm'
Section 7	7.14.2 (c)	Change 'shall' to 'are to'
Section 7	7.14.2 (d)	Change 'shall' to 'must'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 7	7.14.2 (d)	Removed 'construction' after 'both during'
Section 7	7.14.2 (e)	Changed 'shall' to 'must'
Section 7	7.14.2 (e)	Removed 'in' after 'must meet'
Section 7	7.14.2 (e)	Changed "Water Protection and Sustainability Branch of the Ministry of Environment" to 'British Columbia Ministry of Environment and Climate Change Strategy'
Section 7	7.15.1 (a)	Added 'The City recognizes that climate change is altering historical rainfall patterns in Nanaimo. Rainfall is a key parameter in the design of storm systems. These changes introduce uncertainty in long-term infrastructure and development planning, which is addressed through a risk-based approach'
Section 7	7.15.1 (a)	Removed "The City of Nanaimo recognizes thatmake allowance for climate change.'
Section 7	7.15.1 (b)	Added "Mitigation of rainfall uncertainty due to climate change is' before 'based on'
Section 7	7.15.1 (b)	Added 'guidance from' after 'based on'
Section 7	7.15.1 (b)	Removed 'guidance' with subscript 1 after 'Geoscientists of BC'
Section 7	7.15.1 (b)	Added "Risk management is implemented through engineering design and stormwater management for frequent (minor rainfall) and extreme (major rainfall) events. There updates are reflected in the Intensity-Duration-Frequency (IDF) curves derived from rain gauge data' before 'which have been updated'
Section 7	7.15.1 (b)	Added "to Year 2100' after 'Climate Change'
Section 7	7.15.1 (b)	Removed '(a)' after 'Section 7.03.3'
Section 7	7.15.2	Removed 'Sea Level Rise'
Section 7	7.15.2 (a)	Removed whole bullet point
Section 7	7.20.1	Changed 'City of Nanaimo' to 'City's'
Section 7	7.21.1	Add 'City' before 'Engineer'
Section 7	7.21.1	Change "Engineer" to 'Professional of Record' x 2
Section 7	7.21.2	Change "Engineer" to 'Professional of Record'
Section 7	7.21.2	Change 'shall' to 'must'
Section 7	7.21.3	Add 'City' before 'Engineer' x 2
Section 7	7.21.4	Change 'shall' to 'must'
Section 7	7.21.4	Change 'Engineer' to 'Professional of Record'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 7	7.21.4 (a)	Change 'Engineer' to 'Professional of Record'
Section 7	7.21.4 (a)	Change 'shall' to 'are to'
Section 7	7.21.4 (a)	Change 'shall be' to 'is'
Section 7	7.21.4 (a)	Change '70kPa' to '70 kPa'
Section 7	7.21.4 (a)	Change 'shall' to 'must'
Section 7	7.21.4 (a)	Change 'shall' to 'must'
Section 7	7.21.4 (b)	Change 'shall' to 'are to'
Section 7	7.21.4 (b)	Change 'shall' to 'is'
Section 7	7.21.4 (b)	Remove 'be'
Section 7	7.21.4 (b)	Change 'Joints shall show' to 'at the joints.' - Position in sentence is also changed
Section 7	7.21.4 (b)	Change 'will' to 'There must be'
Section 7	7.21.4 (b)	Remove period '.' after 'leakage'
Section 7	7.21.4 (c)	Change 'shall' to 'is to'
Section 7	7.21.4 (c)	Change 'shall' to 'is'
Section 7	7.21.4 (c)	Remove 'be' before 'loaded on the bell'
Section 7	7.21.4 (c)	Add 'a' after 'except that'
Section 7	7.21.4 (c)	Change 'having' to 'with' before 'a laying length'
Section 7	7.21.4 (c)	Change 'shall' to 'must'
Section 7	7.21.4 (c)	Remove 'While under this load....'
Section 7	7.21.4 (c)	Add 'There must be' before 'no leakage'
Section 7	7.21.4 (c)	Change 'under' to 'There must be [no leakage] at the stressed joint while under this load of'
Section 7	7.22A.1	Changed 'sizes' to 'size'
Section 7	7.22A.1	Changed 'types' to 'type'
Section 7	7.22A.2 (a)	Changed 'shall' to 'must'
Section 7	7.22A.2 (a)	Changed '600mm' to '600 mm'
Section 7	7.22A.2 (a)	Remove 'shall be'
Section 7	7.22A.2 (b)	Change 'shall' to 'must'
Section 7	7.22A.2 (b)	Change '600mm' to '600 mm'
Section 7	7.22A.2 (b)	Change 'shall' to 'are to'
Section 7	7.22A.3 (a)	Change 'shall' to 'must' x 2

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Section 7	7.22A.3 (a)	Change '320kPa' to '320 kPa'
Section 7	7.22A.3 (b)	Change 'shall' to 'must'
Section 7	7.22A.3 (b)	Change '100mm' to '100 mm'
Section 7	7.22A.3 (b)	Change 'dia' to 'diameter'
Section 7	7.22A.3 (b)	Change '450mm' to '450 mm'
Section 7	7.22A.3 (b)	Change 'dia' to 'diameter'
Section 7	7.22A.3 (c)	Change 'shall' to 'must'
Section 7	7.22A.3 (d)	Change 'shall' to 'must'
Section 7	7.22A.4 (a)	Change 'shall' to 'must'
Section 7	7.22.4 (a)	Add "City" before "Engineering"
Section 7	7.22.5 (a)	Change 'shall' to 'must'
Section 7	7.22.5 (b)	Change 'shall' to 'must' x 2
Section 7	7.22.5 (c)	Change 'shall' to 'are to'
Section 7	7.22.6 (a)	Change 'shall' to 'must'
Section 7	7.22.6 (a)	Added 'are' after 'pipes'
Section 7	7.22.6 (b)	Change 'shall be' to 'is'
Section 7	7.22.6 (b)	Change "10MPa" to "10 MPa"
Section 7	7.22.6 (c)	Change 'shall' to 'must'
Section 7	7.22.6 (d)	Change 'shall' to 'must' x 2
Section 7	7.22B.1	Change 'shall' to 'must'
Section 7	7.22B.1	Change 'will' to 'are'
Section 7	7.22B.1	Remove 'be'
Section 7	7.22B.2 (a)	Change 'shall' to 'must'
Section 7	7.22B.2 (b)	Change 'shall' to 'can'
Section 7	7.22B.2 (b)	Change 'joint' to 'join'
Section 7	7.22B.2 (c)	Change 'shall' to 'must' x 3
Section 7	7.22B.2 (d)	Change 'shall' to 'must'
Section 7	7.22B.2 (d)	Change 'shall' to 'are to'
Section 7	7.22B.2 (d)	Change '3mm' to '3 mm'
Section 7	7.22B.2 (e)	Change 'shall' to 'must'

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Section 7	7.22B.2 (f)	Remove 'for'
Section 7	7.23.1 (a)	Change 'shall' to 'must'
Section 7	7.23.1 (c)	Change 'shall' to 'are'
Section 7	7.23.1 (c)	Change 'be used' to 'permitted'
Section 7	7.23.1 (c)	Remove 'for'
Section 7	7..23.2 (a)	Change 'shall' to 'must'
Section 7	7.23.2 (b)	Change 'shall require' to 'requires'
Section 7	7.23.2 (b)	Added: 'Where pipe saddles have been installed without approval, the City will require removal and reinstatement with an acceptable installation.'
Section 7	7.23.2 (c)	Remove 'for'
Section 7	7.23.3 (a)	Change 'shall are' to 'is'
Section 7	7.23.3 (a)	Change 'be used' to 'permitted'
Section 7	7.23.3 (a)	Change 'if' to 'when'
Section 7	7.23.3 (b)	Change 'shall be' to 'must'
Section 7	7.23.3 (d)	Remove 'for'
Section 7	7.23.4 (a)	Change 'shall' to 'must' x 2
Section 7	7.23.4 (b)	Remove 'for'
Section 7	7.23.5 (a)	Change 'shall' to 'must'
Section 7	7.23.5 (c)	Remove 'for'
Section 7	7.24.1	Change 'shall' to 'must'
Section 7	7.24.1	Change '10mm' to '10 mm'
Section 7	7.24.2	Change 'shall' to 'must'
Section 7	7.24.2	Change '.A' to 'with a'
Section 7	7.24.2	Remove 'shall be required'
Section 7	7.24.3	Change 'shall' to 'must'
Section 7	7.24.4	Change 'shall' to 'must'
Section 7	7.24.4 (table)	add "=" on each line
Section 7	7.25A.1	Change 'shall' to 'must'
Section 7	7.25A.2	Change 'shall' to 'must'
Section 7	7.25A.3	Change 'shall' to 'must'
Section 7	7.25A.4	Remove 'for'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 7	7.25B.1	Change 'shall' to 'must'
Section 7	7.25B.2	Change 'shall' to 'must'
Section 7	7.25B.3	Change 'shall' to 'must'
Section 7	7.25C.1	Change 'shall' to must' x 2
Section 7	7.25D.1	Change 'shall' to 'must'
Section 7	7.25D.2	Change 'shall' to 'are to'
Section 7	7.25D.2	Change 'shall' to 'must'
Section 7	7.25D.3	Change 'shall' to 'are to'
Section 7	7.25D.3	Remove 'Frame and'
Section 7	7.25D.4	Change 'shall' to 'are to'
Section 7	7.25D.5	Change 'shall' to 'are to'
Section 7	7.25D.6	Change 'shall' to 'must'
Section 7	7.25D.7	Remove 'for'
Section 7	7.25E	Change 'steps' to 'ladder rungs'
Section 7	7.25E.1	Change 'steps' to 'rungs'
Section 7	7.25E.1	Change 'shall' to 'must' x 2
Section 7	7.25E.1	Add 'concrete' before 'manhole'
Section 7	7.25E.1	Change 'steps' to 'rungs'
Section 7	7.25E.1	Change '19mm' to '19 mm'
Section 7	7.25E.2	Change 'for manhole steps' to 'Manhole Ladder Rungs'
Section 7	7.26.1	Change 'shall' to 'are to'
Section 7	7.27.1	Change 'shall conforming to' to 'must conform to'
Section 7	7.27.1	Remove 'shall be used'
Section 7	7.27.2	Change 'roads' to 'streets'
Section 7	7.28.1	Change 'at the discretion of' to 'if approved by'
Section 7	7.28.2	All of it removed
Section 7	7.29.1	Change 'shall be as' to 'are'
Section 7	7.31A.1	Change 'shall' to 'must' x 2
Section 7	7.31A.2	Change 'shall' to 'are to'
Section 7	7.31A.3	Add 'Catch basin lead minimum sizes and desired grade as per Section 7.06.12
Section 7	7.31A.3	Remove 'Leads shall be 200 mm....'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 7	7.31B.1	Change 'shall' to 'are to'
Section 7	7.32.1	Change 'shall' to 'must'
Section 7	7.32.2	Change 'shall' to 'are to'
Section 7	7.32.3	Change 'shall' to 'are to'
Section 7	7.32.3	Change 'shall' to 'must'
Section 7	7.33.1	Change 'shall' to 'must'
Section 7	7.33.1	Remove 'constructed of are typically and'
Section 7	7.33.1	Add 'pre-cast'
Section 7	7.33.1	Add: 'integral to the outlet structure, unless approved by the City Engineer.'
Section 7	7.33.1	Remove: 'be designed to'
Section 7	7.33.1	Add: 'the design must'
Section 7	7.33.1	Change 'dispose' to 'disperse'
Section 7	7.34.1	Change 'shall' to 'must'
Section 7	7.35A.1	Change 'shall' to 'are to'
Section 7	7.35A.2	Change 'shall' to 'are to'
Section 7	7.35A.3	Change 'shall' to 'is permitted'
Section 7	7.35A.3	Remove 'be used'
Section 7	7.35A.3	Change 'shall' to must' x 2
Section 7	7.35B.1	Change 'shall' to 'are to'
Section 7	7.35B.2	Change 'shall' to 'are to'
Section 7	7.35B.3	Change 'shall' to 'must'
Section 7	7.36A.1	Change 'shall' to must
Section 7	7.36A.2	Change 'shall' to 'is to'
Section 7	7.36A.2 (table)	Change '400' to '4000'
Section 7	7.36A.2 (Below table)	Added 'Based on Province of British Columbia Ministry of Transportation and Infrastructure. (2020). Standard specifications for highway construction: Volume 1. Table 205-C: Gradation and Intermediate Dimension of Rock by Class of Riprap
Section 7	7.36B.1	Change 'shall' to 'must'
Section 7	7.36B.1	Change 'shall' to 'are to' x 2
Section 7	7.36B.1	Removed: 'road'
Section 7	7.36B.1	Added: 'City'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 7	7.37.1	Change 'shall' to 'are to'
Section 7	7.37.2	Change 'shall' to 'are to'
Section 7	7.40A.1	Change 'shall' to 'must' x 3
Section 7	7.40A.1	Change 'as it is installed' to 'during installation'
Section 7	7.40A.1	Change "Engineer" to "Professional of Record"
Section 7	7.40A.2	Change 'shall' to 'must'
Section 7	7.41.1	Change 'shall' to 'are to'
Section 7	7.42.1	Change 'shall' to 'must'
Section 7	7.42.1	Change 'Engineer' to 'Professional of Record'
Section 7	7.42.2	Change 'shall' to 'must'
Section 7	7.42.3	Change 'shall' to 'must'
Section 7	7.42.4	Change 'shall' to 'are to'
Section 7	7.42.4	Change 'shall' to 'must'
Section 7	7.42.5	Change 'shall' to 'are to'
Section 7	7.42.6	All of it removed
Section 7	7.43.1	Change 'shall' to 'must'
Section 7	7.43.1	Change 'shall depend' to 'depends'
Section 7	7.43.1	Change 'shall' to 'must'
Section 7	7.44.1	Change 'shall' to 'must'
Section 7	7.44.1	Change 'of the radius' to 'radius of the curve'
Section 7	7.44.1	Add 'are permitted only'
Section 7	7.44.1	Change 'and only where' to 'unless'
Section 7	7.44.1	Add "City" before 'Engineer'
Section 7	7.45.1	Change 'shall' to 'must'
Section 7	7.46.1	Change 'shall' to 'are to'
Section 7	7.46.1	Change "Engineer" to "Professional of Record"
Section 7	7.46.1	Change 'shall' to 'must'
Section 7	7.46.2 (a)	Change 'Pipe' to 'Pipes'
Section 7	7.46.2 (a)	Change 'shall' to 'must'
Section 7	7.46.2 (a)	Change 'by' to 'using'
Section 7	7.46.2 (b)	Change 'shall' to 'must'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 7	7.46.2 (b)	Change 'to' to 'be'
Section 7	7.46.2 (b)	Change 'techniques' to 'methods'
Section 7	7.46.2 (b)	Remove 'being jointed'
Section 7	7.46.2 (c)	Change 'shall' to 'must'
Section 7	7.46.2 (c)	Change 'for' to 'to connect'
Section 7	7.46.2 (c) (i)	Change 'The' to 'Each'
Section 7	7.46.2 (c) (i)	Change 'shall' to must'
Section 7	7.46.2 (c) (i)	Change 'butt' to 'butt-' before "fused"
Section 7	7.46.2 (c) (ii)	Change 'shall' to 'must be'
Section 7	7.46.2 (c) (ii)	Change 'complete with' to 'and include'
Section 7	7.47.1	Change 'shall be' to 'will'
Section 7	7.47.1	Remove 'of Nanaimo' after 'City'
Section 7	7.47.1	Change 'authorized' to 'approved'
Section 7	7.47.2	Change 'shall' to 'must'
Section 7	7.47.3	Remove 'shall'
Section 7	7.47.3	Add "City" before 'Engineer'
Section 7	7.47.5	Change 'shall' to 'must'
Section 7	7.47.5	Change 'to be used' to 'permitted'
Section 7	7.48.1	Changed 'shall' to 'are'
Section 7	7.48.1	Change "Engineer" to "Professional of Record"
Section 7	7.48.2	Remove 'in conjunction'
Section 7	7.48.2	Change 'shall be installed in the sewerline' to 'install [fittings] sewer line'
Section 7	7.48.2	Add 'future'
Section 7	7.48.2	Remove comma ',' after 'connections'
Section 7	7.48.2	Change 'caps' or 'plugs' to 'cap' or 'plug'
Section 7	7.48.2	Remove 'shall be installed in'
Section 7	7.48.2	Add "Install"
Section 7	7.48.2	Change "M" to 'm' in word 'markers'
Section 7	7.48.2	Change 'shall be installed as specified in' to 'as per'
Section 7	7.48.2	Remove 'clause 7.61.3 (i)'
Section 7	7.48.3 (a)	Change 'shall' to 'are'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 7	7.48.3 (a)	Change 'shall' to 'will'
Section 7	7.48.3 (a) (i)	Change 'shall' to 'must'
Section 7	7.48.3 (a) (ii)	Change 'corning' to 'coring'
Section 7	7.48.3 (a) (ii)	Change '40mm' to '40 mm'
Section 7	7.48.3 (a) (ii)	Change 'shall' to 'must'
Section 7	7.48.3 (a) (iii)	Change 'shall' to 'is to'
Section 7	7.48.3 (a) (vii)	Change 'shall' to 'must'
Section 7	7.48.3 (a) (vii)	Change 'Engineer' to 'Professional of Record'
Section 7	7.48.3 (b)	Remove 'for'
Section 7	7.48.4 (a)	Change 'shall' to 'can' making 'cannot'
Section 7	7.48.4 (a)	Add 'City' before 'Engineer'
Section 7	7.48.4 (b)	Change 'shall' to 'must'
Section 7	7.48.4 (b) (ii)	Change 'shall require' to 'requires'
Section 7	7.48.4 (b) (ii)	Change 'shall' to 'must'
Section 7	7.48.4 (b) (ii)	Change 'Saddle' to 'saddles'
Section 7	7.48.4 (b) (ii)	Add 'are' after 'saddles'
Section 7	7.48.4 (c)	Add 'Section'
Section 7	7.48.4 (c)	Remove 'for'
Section 7	7.48.5 (a)	Change 'shall' to 'are to'
Section 7	7.48.5 (b)	Remove 'for'
Section 7	7.48.6 (a)	Change 'shall' to 'must'
Section 7	7.48.6 (b)	Change 'shall' to 'must' x 2
Section 7	7.48.7 (a)	Change 'shall' to 'are to'
Section 7	7.48.7 (b)	Remove 'for'
Section 7	7.49.1	Change 'shall' to 'is to'
Section 7	7.49.1	Change 'shall' to 'must'
Section 7	7.49.2	Change 'shall' to 'may'
Section 7	7.49.2	Change 'Engineer' to 'Professional of Record'
Section 7	7.49.3	Change 'shall' to 'are to'
Section 7	7.49.4	Change 'shall' to 'must' x 2
Section 7	7.49.5	Change 'a' to 'at'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 7	7.49.5	Change 'shall' to 'must'
Section 7	7.49.6	Change 'shall' to 'must'
Section 7	7.49.7	Change 'shall' to 'must' x 2
Section 7	7.49.8	Change 'shall' to 'must'
Section 7	7.49.8	Change 'storm water' to 'stormwater'
Section 7	7.49.9	Change 'shall' to 'must'
Section 7	7.49.9	Change 'shall' to 'are to'
Section 7	7.49.10	Change 'shall' to 'must'
Section 7	7.49.10	Change "While green, the concrete benching shall be given a broom' to 'Broom'
Section 7	7.51.1	Change 'shall' to 'must'
Section 7	7.51.2	Change 'shell' to 'must'
Section 7	7.51.2	Change 'shall to 'are to'
Section 7	7.51.2	Remove 'shall be'
Section 7	7.51.2	Change 'shall be' to 'is'
Section 7	7.51.3	Remove 'shall'
Section 7	7.51.3	Change 'shall' to 'must'
Section 7	7.51.4	Change 'Engineer' to 'Professional of Record'
Section 7	7.51.4	Remove 'shall'
Section 7	7.51.4	Change 'require' to 'requires'
Section 7	7.51.5	Remove 'for'
Section 7	7.52.1	Change 'shall' to 'are'
Section 7	7.52.2	Change 'shall' to 'must'
Section 7	7.52.2	Change 'if' to 'of'
Section 7	7.52.3	Change 'shall' to 'must'
Section 7	7.52.4	Remove 'for'
Section 7	7.53.1	Change 'shall' to 'are'
Section 7	7.54.1	Change 'shall' to 'must'
Section 7	7.54.1	Change 'as shown on the Standard drawings' to 'elevation shown on construction drawings.'
Section 7	7.54.1	Change '100mm' to '100 mm'
Section 7	7.54.1	Change 'shall' to 'must'

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Section 7	7.54.1	Remove 'shall be'
Section 7	7.54.1 (a)	Change 'shall' to 'are to'
Section 7	7.54.2	Change 'shall' to 'must'
Section 7	7.54.2 (a)	Change 'shall' to 'are to'
Section 7	7.54.2 (a)	Change 'shall' to 'must'
Section 7	7.54.2 (b)	Change 'shall' to 'must'
Section 7	7.54.2 (b)	Change 'shall' to 'must'
Section 7	7.54.2 (c) - Added bullet point	Add 'covers installed outside of the tolerances listed above require approval by the City Engineer.'
Section 7	7.54.3	Change 'shall be used' to 'are permitted'
Section 7	7.54.4	Change 'shall' to 'are to'
Section 7	7.55	Change 'steps' to 'ladder rung'
Section 7	7.55.1	Change 'steps shall' to 'ladder rungs are to'
Section 7	7.55.1	Add 'City' before 'Engineer'
Section 7	7.55.2	Change 'step' to 'rung'
Section 7	7.55.2	Change 'shall' to 'must'
Section 7	7.55.3	Change 'steps' to rungs'
Section 7	7.55.3	Change 'shall' to 'must'
Section 7	7.55.4	Added → I think so '[' became '[→]'
Section 7	7.55.4	Change 'steps' to 'rungs'
Section 7	7.56.1	Change 'shall' to 'must'
Section 7	7.56.1	Looks like '[' added at end of sentence
Section 7	7.57.1	Change 'shall' to 'must' x 3
Section 7	7.57.1	Change "Engineer" to "Professional of Record"
Section 7	7.57.1	Change 'shall' to 'are to'
Section 7	7.58	Changed 'TEMPORARY CLEANOUTS' TO '-NOT USED-'
Section 7	7.58.1	Removed 'Temporary cleanouts shall be'
Section 7	7.60.1	Change 'shall' to 'must'
Section 7	7.60.2	Change 'shall' to 'must' x 2
Section 7	7.60.2	Change 'shall' to 'can' making 'cannot'
Section 7	7.60.3	Change 'shall' to 'must'

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Section 7	7.60.4	Add 'concrete'
Section 7	7.60.4	Change 'blacktop' to 'asphalt'
Section 7	7.60.5	Change 'shall' to 'are to'
Section 7	7.60.5	Add '[->]'
Section 7	7.60.6	Change '50mm' to '50 mm'
Section 7	7.60.6	Change 'shall' to 'must'
Section 7	7.60.7	Change 'shall' to 'must'
Section 7	7.61.1 (a)	Change 'Engineer' to 'Professional of Record'
Section 7	7.61.1 (a)	Change 'shall' to 'must' x 2
Section 7	7.61.1 (b)	Change 'shall' to 'are'
Section 7	7.61.1 (b)	Change 'shall' to 'must'
Section 7	7.61.2 (a)	Change 'shall' to 'must' x 3
Section 7	7.61.3 (a)	Change 'shall' to 'must'
Section 7	7.61.3 (b)	Change 'shall' to 'must'
Section 7	7.61.3 (c)	Change 'shall' to 'must'
Section 7	7.61.3 (d)	Change 'shall' to 'must'
Section 7	7.61.3 (f)	Change 'shall' to 'must' x 2
Section 7	7.61.3 (g)	Change 'shall' to must'
Section 7	7.61.3 (g)	Change 'Glued' to 'no glued
Section 7	7.61.3 (g)	Remove 'shall not be made'
Section 7	7.61.3 (h)	Change 'shall' to 'are to'
Section 7	7.61.3 (i)	Change 'shall' to 'must' x 5
Section 7	7.61.3 (i)	Change 'Engineer' to 'Professional of Record'
Section 7	7.61.3 (j)	Change 'shall' to 'must'
Section 7	7.61.3 (k)	Change 'shall' to 'must'
Section 7	7.61.4 (a)	Change 'shall' to 'must'
Section 7	7.61.4 (a)	Add '[]' after 'Types' x 2
Section 7	7.62.1	Remove 'of Nanaimo' after 'City'
Section 7	7.62.1	Change 'shall' to 'must'
Section 7	7.62A.1	Change 'shall' to 'must' x 2
Section 7	7.62A.1	Change 'Engineer' to 'Professional of Record'

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Section 7	7.62A.2	Change 'shall' to 'must'
Section 7	7.62A.3	Change 'Engineer' to 'Professional of Record'
Section 7	7.62A.3	Remove 'of Nanaimo' after 'City'
Section 7	7.62A.4	Change 'shall' to 'must'
Section 7	7.62A.4	Change 'Engineer' to 'Professional of Record'
Section 7	7.62A.4	Remove 'of Nanaimo' after 'City'
Section 7	7.62A.5	Change 'shall' to 'must'
Section 7	7.62A.5	Change 'shall' to 'can' making 'cannot'
Section 7	7.62A.5	Change 'City Engineer' to 'Professional of Record'
Section 7	7.62A.5	Remove 'of Nanaimo' after 'City'
Section 7	7.62A.6	Change 'shall' to 'must' x 2
Section 7	7.62A.7	Change 'sire' to 'site'
Section 7	7.62A.8	Change '8l/s' to '8 'L/s'
Section 7	7.62A.8	Remove 'of Nanaimo' after 'City'
Section 7	7.62A.9	Change 'shall' to 'can' making 'cannot'
Section 7	7.62A.10	Change 'to current BC Ministry of Environment and Department of Fisheries and Oceans Standards' to 'Provincial and Federal Regulations'
Section 7	7.63.1	Change 'shall' to 'are to'
Section 7	7.63.2	Change 'shall' to 'must'
Section 7	7.63.2	Change 'Engineer' to 'Professional of Record'
Section 7	7.63.3	Change 'shall' to 'must' x 2
Section 7	7.63.3 (a)	Change 'shall' to 'must'
Section 7	7.63.3 (a)	Change 'shall' to 'are to'
Section 7	7.63.3 (e)	Change 'shall' to 'should'
Section 7	7.63.3 (e)	Change 'shall' to 'must'
Section 7	7.63.3 (f)	Change 'shall' to 'must'
Section 7	7.63.3 (g)	Change 'shall' to 'must'
Section 7	7.63.3 (j) (ii)	Add 'can' to make 'cannot'
Section 7	7.63.4	Change 'shall' to 'must'
Section 7	7.63.4 (a)	Change 'shall' to 'can' making 'cannot'
Section 7	7.63.4 (b)	Remove 'Engineer'

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Section 7	7.63.4 (d)	Change 'Engineer' to 'Professional of Record'
Section 7	7.63.5	Change 'Engineer' to 'Professional of Record'
Section 7	7.63.5	Change 'shall' to 'must'
Section 7	7.63.5	Change 'the City of Nanaimo Standards and Specifications' to 'this manual'
Section 7	7.63.6	Change 'shall become' to 'are'
Section 7	7.63.6	Remove 'of Nanaimo' after 'City'
Section 7	7.63.7	Change 'Engineer' to 'Professional of Record' x2
Section 7	7.63.7	Change 'shall' to 'must'
Section 7	7.63.8	Change 'shall' to 'must' x 2
Section 7	7.63.9	Change 'shall' to 'must'
Section 7	7.63A.1	Change 'Engineer' to 'Professional of Record'
Section 7	7.63A.1	Change 'shall' to 'must'
Section 7	7.63A.1	Remove 'of Nanaimo Works'
Section 7	7.63A.2	Change 'Engineer' to 'Professional of Record'
Section 7	7.63A.2	Change 'shall' to 'must'
Section 7	7.63A.2	Remove 'of Nanaimo works'
Section 7	7.63A.3	Change 'shall' to 'must'
Section 7	7.63A.3	Change 'as-built' to 'record drawing'
Section 7	7.64.1	Change 'shall' to 'are'
Section 7	7.64.1	Change 'Engineer' to 'Professional of Record'
Section 7	7.65.1	Change 'shall' to 'must'
Section 7	7.65.2 (a)	Added [→]
Section 7	7.65.3 (a)	Added [→]
Section 7	7.66.1	Change 'shall' to 'must'
Section 7	7.66.2 (a)	Change 'shall' to 'are' x 2
Section 7	7.66.2 (c)	Change 'shall' to 'are to' x 3
Section 7	7.66.2 (d)	Change 'shall' to 'are to'
Section 7	7.66.2 (d)	Change 'will' to 'can' making 'cannot'
Section 7	7.66.2 (d)	Change 'shall' to 'must'
Section 7	7.66.3	Change 'shall' to 'must'
Section 7	7.66.4	Change 'shall' to 'must'

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Section 7	7.66.4	Change 'Engineer' to 'Professional of Record'
Section 7	7.67.3	Change 'shall' to 'must'
Section 7	7.67.5	Change 'top soil' to 'topsoil'
Section 7	7.68.1	Change 'shall' to 'must'
Section 7	7.68.2	Change 'Engineer' to 'Professional of Record'
Section 7	7.68.2	Change 'shall' to 'must'
Section 7	7.68.3	Change 'shall' to 'must'
Section 7	7.68.3	Change 'Engineer' to 'Professional of Record'
Section 7	7.68.4	Change 'shall' to 'are'
Section 7	7.68.4	Add '[]'
Section 7	7.69.1	Change 'shall' to 'must' x 2
Section 7	7.69.2	Change 'shall' to 'must'
Section 7	7.69.3	Change 'shall' to 'must'
Section 7	7.69.4	Change 'shall' to 'are to' x2
Section 7	7.70.1	Change 'shall' to 'must' x 2
Section 7	7.70.1	Remove 'of Nanaimo' after 'City'
Section 7	7.70.1	Change 'shall' to 'are to'
Section 7	7.70.2	Change 'shall' to 'must'
Section 7	7.70.3	Change 'shall' to 'are to'
Section 7	7.70.5	Change 'shall' to 'must'
Section 7	7.70.5 (h)	Change '(Road' to '(Street'
Section 7	7.70.6	Change 'shall' to 'must'
Section 7	7.70.6 (c)	Remove 'of Nanaimo' after 'City'
Section 7	7.60.6 (d)	Remove 'of Nanaimo' after 'City'
Section 7	7.60.7	Change 'shall' to 'are'
Section 7	7.60.8	Change 'shall' to 'must'
Section 7	7.60.9	Change 'shall' to 'must'
Section 7	Std.Dwg. SW-14	Removed (in label): 'MAY 2020'
Section 7	Std.Dwg. SW-14	Changed [in label]: 'May 2020' to 'Edition 15'
Section 7	Std.Dwg. SW-14	Added [in label]: 'DROP PIPE CAN BE ONE NOMINAL PIPE SIZE LESS THAN MAIN PIPE BUT NOT LESS THAN 250Ø'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 7	Std.Dwg. SW-14	Removed [in label]: 'DROP PIPING TO BE 250Ø MIN., EXCEPT IF MAIN IS LESS THAN 250Ø, DROP PIPING TO EQUAL MAIN.'
Section 7	Std.Dwg. SW-16	Replaced: Replaced SW-16 in its entirety
Section 7	Std.Dwg. SW-17	Removed [in label]: NOV 2016
Section 7	Std.Dwg. SW-17	Changed [in label]: 'May 2020' to 'Edition 15'
Section 7	Std.Dwg. SW-17	Added [in label]: 'FRAME'
Section 7	Std.Dwg. SW-17	Added [in label]: 'FRAMES INSTALLED ON 600Ø BARRELS SHALL NOT HAVE RIB'
Section 7	Std.Dwg. SW-18	Removed [in label]: NOV 2016
Section 7	Std.Dwg. SW-18	Changed [in label]: 'May 2020' to 'Edition 15'
Section 7	Std.Dwg. SW-18	Added [in label]: 'HEAVY DUTY MANHOLE COVER (SEE STD DWG S-9'
Section 7	Std.Dwg. SW-18	Removed [from label]: 'REFERRING TO "CITY OF NANAIMO STORM DRAIN", LETTERING SHALL BE 25 FLATTENED FACE GOTHIC WITH FACE OF LETTERS RAISED TO THE SAME LEVELS AS THE TOP OF THE RIBS'
Section 7	Std.Dwg. SW-19	Removed
Section 7	Std.Dwg. SW-23	Removed [in label]: NOV 2016
Section 7	Std.Dwg. SW-23	Changed [in label]: 'May 2020' to 'Edition 15'
Section 7	Std.Dwg. SW-23	Added [in label]: 'REMOVE' and 'PRIOR TO FINAL INSPECTION'
Section 7	Std.Dwg. SW-24	Removed [in label]: NOV 2016
Section 7	Std.Dwg. SW-24	Changed [in label]: 'May 2020' to 'Edition 15'
Section 7	Std.Dwg. SW-24	Added [in label]: 'REMOVE' and 'PRIOR TO FINAL INSPECTION'
Section 7	Std.Dwg. SW-25	Removed [in label]: 'MAY 2020'
Section 7	Std.Dwg. SW-25	Changed [in label]: 'May 2020' to 'Edition 15'
Section 7	Std.Dwg. SW-25	Changed [in label]: 'RETURN PERIOD (YR)' TO 'AEP'
Section 7	Std.Dwg. SW-25	Changed [in label]: 'RETURN PERIOD (YR)' TO 'ANNUAL EXCEEDANCE PROBABILITY'
Section 7	Std.Dwg. SW-25	Changed [in label]: 'RETURN PERIODS (YEARS)' TO 'ANNUAL EXCEEDANCE PROBABILITY (AEP)'
Section 7	Std.Dwg. SW-25	Added [Notes 2]: 'RETURN PERIOD IS NOW EXPRESSED AS ANNUAL EXCEEDANCE PROBABILITY (AEP), THE CHANCE OF AN EVENT OCCURRING IN ANY GIVEN YEAR. FOR EXAMPLE, A 1% AEP (1:100 AEP) IS THE 100-YEAR RETURN PERIOD, AND A 20% AEP (1:5 AEP) IS THE 5-YEAR RETURN PERIOD'
Section 7	8.0_TOC	Changed 'Flex Zones' to 'Flex & Frontage Zones'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 8	8.0_TOC	Added: 'Pedestrian Pathway' Dwg. No. CS-21A
Section 8	8.0_TOC	Added: 'Nature' Dwg. No. CS-22A
Section 8	8.0_TOC	Added: 'Boardwalk' Dwg. No. CS-22B
Section 8	8.0_TOC	Added: 'Raised Asphalt Crosswalk Multi-Use Pathway' Dwg No. CS-28B
Section 8	8.0_TOC	Added: 'Raised Asphalt Crosswalk Pedestrians' Dwg No. CS-28A
Section 8	8.0_TOC	Added: 'Speed Hump and Speed Bump Detail' Dwg No. CS-29
Section 8	8.0_TOC	Added: 'Park Gate' Dwg. No. CS-38
Section 8	8.0_TOC	Changed: bicycle facilities' to 'Cycle Facilities
Section 8	8.0_TOC	Changed: 'Tactile Warning Surface Indicators (TWSI)' to 'Tactile Walking Surface Indicators (TWSI)'
Section 8	8.0_TOC	Changed: 'Tactile Warning Surface Indicators' to 'Tactile Walking Surface Indicators'
Section 8	8.0_TOC	Removed: 'Clean up'
Section 8	8.0_TOC	Removed: 'Temporary Turnaround'
Section 8	8.0_TOC	Added: 'Fences and Gates' Section 8.27
Section 8	8.0_TOC	Changed: ' Multi-Use Facilities' to 'Trails and Multi-Use Facilities'
Section 8	8.0_TOC	Changed: 'Fences' to 'Fences and Gates'
Section 8	8.0_TOC	Changed: 'Path or Walkway (Hard Surface)' to 'Hard Surface'
Section 8	8.0_TOC	Changed: 'Path or Walkway (Soft Surface)' to 'Soft Surface'
Section 8	8.0_TOC	Changed: 'Multi-Use Paths' to 'Trails and Multi-Use Paths'
Section 8	8.0_TOC	Removed: 'R-TT []'
Section 8	8.0_TOC	Changed: 'Round Stock Sign' to 'Round Steel Poles' and 'CS-40' to 'CS-40A'
Section 8	8.0_TOC	Added: 'Concrete Base for Round Steel Poles' Dwg. No. CS-40B
Section 8	8.0_TOC	Changed: 'Signs on Steel Poles' to 'Signs on Signal Pole or Luminaire Pole'
Section 8	8.01 .1_Paragraph_1	Changed: 'City of Nanaimo' to 'City', and 'Streets' to 'Street'
Section 8	8.01 .1_Paragraph_1	Added: 'and developed the Complete Street Design Guide', and 'riders'
Section 8	8.01 .1_Paragraph_2	Changed: 'and' to '&'
Section 8	8.01 .3 (c)	Changed: 'Nanaimo's Complete Streets Guidelines' to 'Nanaimo Complete Street Design Guide'
Section 8	8.01 .3_Paragraph_0	Added 'the most recent versions of' to the list of guidelines
Section 8	8.01 .3 (d) new	Added: 'Nanaimo Curbside Management Guide'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 8	8.01 .4	Added: ' most recent versions of the'
Section 8	8.01 .4 (a)	Change: 'Ministry of Transportation and Infrastructure (MoTI): to 'Ministry of Transportation and Transit (MoTT):
Section 8	8.01 .4 (a) (i)	Changed: 'BC' to 'B.C.'
Section 8	8.01 .4 (a) (i)	Added: 'Geometric Design Guide for Canadian Roads'
Section 8	8.01 .4 (a) (ii)	Changed: 'British Columbia' to 'B.C.'
Section 8	8.01 .4 (b) (i)	Changed: 'Transit Future Plan' to 'Regional District of Nanaimo Transit Redevelopment Strategy'
Section 8	8.01 .4 (b) (ii)	Removed: 'Bus Stop'
Section 8	8.01 .4 (b) (iii)	Changed: 'Infrastructure Design Guidelines' to 'On-Street Infrastructure Design Guide'
Section 8	8.01 .5 (a) (ii)	Removed: 'Transportation and'
Section 8	8.01 .5 (a) (iii)	Changed: ' Manual' to 'Guide'
Section 8	8.01 .5 (c)	Changed: (NATCO) to (NACTO)
Section 8	8.01 .6	Changed: 'Design Deviation' to 'Design Non-Conformance'
Section 8	8.01 .6 _paragraph	Changed: 'The City of Nanaimo' to 'The City'
Section 8	8.01 .6 _paragraph	Changed: 'Engineer' to 'Professional of Record'
Section 8	8.01 .7	Changed: 'Development and Deviation Requirements' to 'Development and Non-Conformance Requirements'
Section 8	8.01 .7 (a) (i)	Changed: 'Engineer' to 'Professional of Record'
Section 8	8.01 .7 (b) (vi)	Changed: 'Design Deviation' to 'Design Non-Conformance'
Section 8	8.02 .1	Removed: 'For the purpose of this specification, the...'
Section 8	8.02 .1 (a) to (k)	Removed: All subsections removed
Section 8	8.02 .1 new	Added: 'For defined terms refer to Section 2.01 '
Section 8	8.03 .1 (a)	Changed: 'for' to 'of'
Section 8	8.03 .1 (a)	Changed: 'or' to 'and'
Section 8	8.03 .1 (a)	Removed: 'to occur'
Section 8	8.03 .1 (b) (i)	Changed: 'bicycles' to 'cycles'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 9	8.03 .1 (b) (i)	Replaced: 'Wide sidewalks where cycles can safely mix with motor vehicle traffic. Wide sidewalks provide vehicle traffic. Wide sidewalks will provide activity turning the street into a vibrant public space.' to 'Sidewalks and frontage zones can support seating and other pedestrian-oriented uses, helping to strengthen the relationship between the street and adjacent buildings while contributing to a vibrant public space.'
Section 8	8.03 .1 (b) (i)	Changed: 'Streets can be considered' to 'Streets should be designed'
Section 8	8.03 .1 (b) (i)	Removed: 'People will come here to visit...'
Section 8	8.03 .1 (b) (i)	Changed: 'Like the urban local roads, entry and exit from such streets...' to 'Intersections between Local Streets and Collector or Arterial Streets should be designed...'
Section 8	8.03 .1 (b) (i)	Removed: 'Shared use designs such as the Woonerf concept may be applicable here.'
Section 8	8.03 .1 (c) (i)	Changed: 'The Mobility Collector provides' to 'Mobility Collector Streets provide a'
Section 8	8.03 .1 (c) (i)	Changed: 'Commercial activity is still expected to be a priority on these streets and sidewalks are wide to add vibrant life to the street' to 'These streets are expected to support a higher level of commercial activity. Sidewalks and frontage zones can help accommodate this activity by providing space for wider pedestrian areas, landscaping, street furniture, patios, seating, and other pedestrian-oriented uses that contribute to a comfortable and vibrant streetscape.'
Section 8	8.03 .1 (c) (i)	Changed: 'bicycles' to 'cycles'
Section 8	8.03 .1 (c) (i)	Changed: 'bike path' to 'cycle track'
Section 8	8.03 .1 (c) (i)	Removed: accommodate spillover uses from adjacent properties and
Section 8	8.03 .1 (d) (ii)	Changed: 'bicycles' to 'cycles'
Section 8	8.03 .1 (d) (ii)	Changed: 'bike paths' to 'cycle tracks'
Section 8	8.03 .1 (d) (ii)	Changed: ' these' to 'they'
Section 8	8.03 .1 (d) (ii)	Changed: 'mobility hub' to 'urban centres'
Section 8	8.03 .2 (a)	Changed: 'single family homes' to 'single residential
Section 8	8.03 .2 (c) (i)	Changed: 'lane' to 'Travel Lane'
Section 8	8.03 .2 (c) (i)	Changed: 'road' to 'roadway'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 8	8.03 .2 (c) (i)	Changed: 'Pedestrians take priority on such streets and as such, intersection...' to 'Pedestrians take priority on such streets and intersections with collector or arterial streets should favour...'
Section 8	8.03 .2 (d) (i)	Added: 'Direct access to developments should be provided from lower classification streets where available.'
Section 8	8.03 .2 (d) (i)	Changed: 'bike paths' to 'Cycle tracks'
Section 8	8.03 .2 (d) (i)	Changed: 'bike path' to 'cycle track'
Section 8	8.03 .2 (e) (i)	Changed: 'bike paths' to 'a cycle track'
Section 8	8.03 .2 (e) (i)	Changed: 'types of traffic' to 'transportation modes'
Section 8	8.03 .3 (a)	Changed: 'It is not anticipated that there would' to 'There will not be Industrial Arterial Streets'
Section 8	8.03 .3 (a)	Added: 'or Mobility'
Section 8	8.03 .3 (b) (i)	Changed: 'parking lanes' to 'parking zones'
Section 8	8.03 .3 (c) (i)	Added: 'Streets'
Section 8	8.03 .3 (c) (i)	Changed: 'bike path' to 'cycle track'
Section 8	8.03 .3 (c) (i)	Removed: ' The' and 'Urban'
Section 8	8.03 .3 (c) (i)	Changed: 'bike paths' to 'Cycle tracks'
Section 8	8.03 .3 (c) (i)	Changed: 'parking lane' to 'parking zone'
Section 8	8.03 .4	Added: 'Street'
Section 8	8.03 .4 (a)	Changed: 'Half Road' to 'Half Street'
Section 8	8.03 .4 (a)	Added: 'full road'
Section 8	8.03 .4 (a)	Changed: 'road' to 'street'
Section 8	8.03 .4 (b)	Changed: 'the City's Road Classification Network and Cross Sectional Standard Drawings' to 'Section 8.04 [→] and associated standard drawings for Street Types and Cross Sections'
Section 8	8.03 .4 (e)	Changed: 'road' to 'street'
Section 8	8.03 .4 (f)	Changed: 'road' to 'roadway'
Section 8	8.03 .4 (g)	Changed: 'half road' to 'half street roadways'
Section 8	8.03 .4 (h)	Changed: 'Lane' to 'Travel lane'
Section 8	8.03 .5 (a)	Changed: 'road' to 'roadway'
Section 8	8.03 .5 (b)	Changed: 'local road standard' to 'Urban Local Streets standard'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 8	8.03 .5 (c)	Removed: 'Final development and construction of the connection will be the responsibility of the City.'
Section 8	8.03 .7 (a)	Changed: 'laneways' to 'lanes'
Section 8	8.04 .2 (b)	Changed: 'lane' to 'Travel lane'
Section 8	8.04 .2 (c)	Added: 'travel'
Section 8	8.04 .2 (d)	Added: 'dedication'
Section 8	8.04 .2 (d)	Changed: 'roads' to 'Urban Local Streets'
Section 8	8.04 .2 (e) _table	Changed: 'Road Class' to 'Street Class'
Section 8	8.04 .2 (e) _table	Changed: 'R/W' to 'Right-of-Way'
Section 8	8.04 .2 (e) _table	Changed: '8.0' to '7.0'
Section 8	8.04 .2 (e) _table	Removed: 'Half Road, <14.0 and HR XS1'
Section 8	8.04 .3 (a)	Changed: 'Minimum radius of curb rotums at street intersections...' to 'Corner radii will be the minimum appropriate to accommodate the design and control vehicles...'
Section 8	8.04 .3 (c)	Changed: 'roads' to 'streets'
Section 8	8.04 .3 (f)	Changed: 'nodes at intersections or mid block' to 'curb extensions and pocket parking per Standard Drawing No. CS-27'
Section 8	8.04 .4 (a)_Table	Added: 'Cul-de-sac'
Section 8	8.04 .4 (a)_Table	Added: '5%'
Section 8	8.04 .4 (a)_Table	Changed: 'road' to 'street'
Section 8	8.05 .1 (b)	Changed: 'bike path' to 'Cycle tracks'
Section 8	8.05 .1 (b)	Changed: 'bike path' to 'cycle track'
Section 8	8.05 .1 (d)	Changed: 'bike path' to 'cycle track'
Section 8	8.05 .1 (f)	Changed: 'bike path' to 'cycle track'
Section 8	8.05 .1 (h)	Changed: 'bike path' to 'cycle track'
Section 8	8.05 .2 (a)	Changed: 'Roundabouts shall be used as directed by...' to 'Roundabouts and traffic circles are effective at providing traffic calming and improving...'
Section 8	8.05 .3	Changed: 'Raised Local Intersection' to 'Raised Local Intersections and Crosswalks'
Section 8	8.05 .3 (a)	Changed: 'bicycle' to 'cycle'
Section 8	8.05 .3 (a)	Changed: 'bike path' to 'cycle track'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 8	8.05 .3 (a)	Changed: 'At raised intersections with local roads, the' to 'At intersections involving Urban and Mobility Local Streets, the'
Section 8	8.05 .3 (a)	Changed: 'No. R-LRI' to 'No R-RLI'
Section 8	8.05 .3 (c)	Added: as per Standard Drawing No. CS-4 []
Section 8	8.06 .1	Changed: 'roads' to 'streets'
Section 8	8.06 .2	Changed: 'Standard Drawing' to 'Standard Drawing No. CS-1
Section 8	8.06 .3	Changed: 'lane' to 'roadway lane'
Section 8	8.06 .5	Added 'commercial driveways'
Section 8	8.06 .5	Changed: 'CS-1' to 'CS-2'
Section 8	8.06 .5	Changed: 'road' to 'street'
Section 8	8.07 .1 (b)	Changed: 'roads' to 'streets'
Section 8	8.07 .2 (b)	Changed: 'at-grade' to 'continuous grade'
Section 8	8.08 .1	Changed: 'varying' to 'contrasting'
Section 8	8.08 .3	Changed: 'such a' to 'may include'
Section 8	8.08 .3	Removed: 'may be used'
Section 8	8.09	Changed: 'Flex Zones' to 'Flex & Frontage Zones'
Section 8	8.09.2	Added: The Frontage Zone is a fixed width within the cross-section that remains flexible in nature, to support active frontages within the streetscape. (a) Wider sidewalks. (b) Landscaping. (c) Utility boxes, cabinets, and hydrants. (c) Street furniture. (d) Patio space.
Section 8	8.09.2	Changed numbered in to 8.09.3
Section 8	8.09.2	Changed: 'reorganized' to 'modified'
Section 8	8.09.3	Changed numbered in to 8.09.4
Section 8	8.09.5	Added: Where a building frontage does not directly interact with the sidewalk, the frontage zone may be combined with the flex zone, with approval from the City Engineer, to provide additional width for landscaping, street furniture, utilities, or other curbside uses. Where applied, a consistent cross section shall be maintained along the property extents.

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 8	8.09.4	Changed numbered in to 8.09.6
Section 8	8.09.4	Added: 'Flex and Frontage Zone features to be provided in accordance with the City's Complete Street Design Guide.'
Section 8	8.10 .1 (a)	Added: ', pedestrian pathway, pedestrian trail'
Section 8	8.10 .1 (b)	Changed: 'walkways' to 'pedestrian pathways'
Section 8	8.10 .1 (c)	Added: 'Hydro and/or telecommunications underground vaults shall not be located...'
Section 8	8.10 .2 (a)	Removed: 'square'
Section 8	8.10 .2 (b)	Changed: 'measure a minimum 0.61 m wide and 1.5 m long. They are to measure...' to 'be designed to cover the maximum amount of hazard by using a combination of TWSI...'
Section 8	8.10 .3 (b)	Changed: 'If' to 'When', 'laneways' to 'lanes' and 'should first consider' to 'will include'
Section 8	8.10 .4 (b) (ii)	Removed: 'REVISED JULY 2022'
Section 8	8.10 .4 (d)	Changed: 'ramp let downs and should be located up stream of the crosswalk' to 'curb ramps and will be located to intercept drainage upstream of the crosswalk'
Section 8	8.10 .5 (a)	Added: ', pedestrian pathway and pedestrian trail'
Section 8	8.10 .5 (c)	Added: Ensure transition sidewalks allow for egress and connectivity for wheelchair users to adjacent sidewalks and destinations.
Section 8	8.10 .5 (d)	Added: ', pedestrian pathway, pedestrian trail'
Section 8	8.10 .5 (d)	Changed: 'Engineer' to 'Professional of Record'
Section 8	8.10 .5 (d)	Changed: 'sidewalk or walkway' to 'facility'
Section 8	8.10 .5 (d)	Added: 'City'
Section 8	8.11	Changed: 'bicycle facilities' to 'Cycle Facilities'
Section 8	8.11 .1	Changed: 'road' to 'street'
Section 8	8.11 .1	Changed: 'paths' to 'lanes'
Section 8	8.11 .2(b)	Removed: 'bike paths and'
Section 8	8.11 .2(b)	Changed: 'collector street crossing' to 'collector or arterial street crosses'
Section 8	8.11 .3	Added: Hydro and/or telecommunications underground vaults are not permitted in cycle track unless approved by the City Engineer
Section 8	8.12	Changed: 'Multi-use Facility' to 'Trails and Multi-Use Facility'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 8	8.12 .1	Changed: 'walkway and multi-use path' to 'Hard surface facilities'
Section 8	8.12 .2	Changed: 'Walkway right-of-ways' to 'Trails and Multi-Use Pathway right-of-ways'
Section 8	8.13 .2	Changed: 'BC Transit's Bus Stop Infrastructure Design Summary and Infrastructure Design Guidelines' to 'BC Transit's Infrastructure Design Summary and On-Street Infrastructure Design Guide.'
Section 8	8.14 .1	Changed: 'lane' to 'Travel lane'
Section 8	8.14 .3	Changed: 'laneways' to 'Lanes'
Section 8	8.14 .3 (a)	Changed: 'laneways' to 'lanes'
Section 8	8.14 .3 (b)	Changed: 'bike path' to 'cycle track'
Section 8	8.14 .3 (b)	Changed: 'laneway crossing letdown' to 'lane letdowns'
Section 8	8.14 .3 (c)	Changed: 'bike path' to 'cycle track'
Section 8	8.14 .3 (c)	Changed: 'laneway' to 'lanes'
Section 8	8.14 .3 (d)	Changed: 'City of Nanaimo's' to 'City'
Section 8	8.14 .3 (d)	Changed: 'Driveway and laneways' to 'Driveways and lanes'
Section 8	8.14 .3 (d) (i)	Removed: 'Maximum driveway width for single family residential lot shall be 6.0 m. '
Section 8	8.14 .3 (d) (ii)	Removed: 'Maximum driveway width for all other zoned lots shall be 9.0 m unless otherwise approved by the City Engineer.'
Section 8	8.14 .3 (e) new	Added: '(e) Where a property has multiple frontages, access shall be provided on the lower classification street'
Section 8	8.15 .3	Changed: 'walkways and paths' to 'multi-use facilities'
Section 8	8.16 .1 (a)	Changed: 1.5H:IV to 1.5H:1V
Section 8	8.16 .1 (a)	Changed: 'Sidewalk or walkways adjacent to' to 'Any facility within 1.5 m of'
Section 8	8.16 .1 (b)	Added: 'as per Standard Drawing No. CS-31'
Section 8	8.16 .2 (a)	Changed: 'walkway' to 'pedestrian use facilities approach grades that'
Section 8	8.16 .2 (a)	Changed: 'shall be installed' to 'will be designed'
Section 8	8.16 .2 (a)	Added: ', unless otherwise approved by the City Engineer.'
Section 8	8.16 .2 (b)	Changed: 'Walkways requiring stairways shall have' to 'Stairways will have'
Section 8	8.16 .2 (b)	Removed: 'at all entrances to the walkway.'
Section 8	8.16 .2 (d)	Removed: 'The attention TWSI alerts a person with vision loss that there is a set of stairs ahead and to seek the support of a handrail for safe navigation.'
Section 8	8.17	Added: 'AND GATES'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 8	8.17 .2 new	Added: 'Park swing gates and concrete bases are a site-specific design by a Professional of Record and use Standard Drawing No. CS-38 .'
Section 8	8.18 .1	Changed: 'roads' to 'streets'
Section 8	8.18 .1	Removed: 'hazard and delineation'
Section 8	8.18 .2	Changed: 'Infrastructure' to 'Transit'
Section 8	8.18 .3 (a) new	Added: 'At any intersection where a cycling facility crosses a collector or arterial street'
Section 8	8.18 .3 (a) redesignated to (b)	Changed: 'Where bicycle facilities cross major driveways and' to 'Where cycling facilities cross high-conflict driveways and lanes, or local roads as required by the City Engineer.'
Section 8	8.18 .3 (b)	Removed: ' Where bicycle lanes approach an intersection away...'
Section 8	8.18 .3 (c) new	Added: 'Where cycling facilities cross permissive left and right turn motor vehicle conflicts'
Section 8	8.18 .3 (d) new	Added: 'Where cycling facilities are bordered by dashed white lines, due to merging/turning motor vehicles.'
Section 8	8.18 .3 (c) redesignated to (e)	Redesignated
Section 8	8.19 .1	Changed: 'roads' to 'streets'
Section 8	8.20 .2	Changed: 'City of Nanaimo' to 'City'
Section 8	8.22	Changed: 'WARNING' TO 'WALKING'
Section 8	8.22 .1 (c)	Removed: 'Stamped or metal attention domes may be used...'
Section 8	8.22 .1 (d) redesignated to (c)	Redesignated
Section 8	8.22 .1 (c) (ii)	Changed: diametre to diameter
Section 8	8.22 .1 (c) (iii)	Changed: 'diametre' to 'diameter' x2
Section 8	8.22 .2 (a)	Changed: 'yellow should not be' to 'Safety yellow is'
Section 8	8.22 .2 (a)	Removed: 'To clearly differentiate warning information from guidance information, safety'
Section 8	8.22 .2 (b)	Changed: bars to TWSIs
Section 8	8.22 .2 (iii)	Changed: '10mm' to '10 mm'
Section 8	8.22 .2 (b) (vi) new	Added: 'Where possible ensure guidance TWSIs direct pedestrians to facilities with braille or auditory wayfinding messages.'
Section 8	8.23 .1	Added: 'public art'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 8	8.24 .1	Changed: 'demarkate' to 'demarcate'
Section 8	8.25 .1	Changed: 'road markings' to 'yellow and white roadway lane markings'
Section 8	8.25 .2 new	Added: 'Conflict paint or other area markings use materials on the Approved Products List or will be approved by the City Engineer'
Section 8	8.26 .3 (b)	Changed: 'Helvetian Med' to 'Helvetica Med'
Section 8	8.26 .4 (c)	Changed: 'Signs shall be made on 12 gauge (3 mm) sign grade aluminum.' to 'Traffic signs shall be made on sheel aluminum with nominal thickness of 2 mm...'
Section 8	8.26 .4 (d)	Changed: 'Signs for Parking Restrictions, Loading Zones, Bus Stops and No' to 'Signs for curbside regulatory signs shall be'
Section 8	8.27 (New)	Added: 'FENCES AND GATES (New 2025)'
Section 8	8.27 .1 (New)	Added: 'Park Gate shop drawings are required prior to fabrication for review and approval by the Professional of Record and are to be included with the documentation for the works'
Section 8	8.27 .2 (New)	Added: 'Park Gate Steel Pipe and Plates'
Section 8	8.27 .2 (a) (New)	Added: 'Steel pipe to ASTM-A53, Grade B, standard weight, seamless, black. (New 2025)'
Section 8	8.27 .2 (b) (New)	Added: 'Steel plate to CAN/CSA-G40.21 GRADE 300W. (New 2025)'
Section 8	8.27 .2 (c) (New)	Added: 'Steel surfaces shall be blast cleaned in accordance with manufacturer's recommendations prior to painting'
Section 8	8.27 .2 (d) (New)	Added: 'Exposed steel surfaces shall be painted with a base coat of enamel rust paint and a top coat of bright yellow enamel rust paint'
Section 8	8.27 .3 (New)	Added: 'Park Gate concrete bases are CLASS F-1 and conform to Section 11.0 - Cast in Place Concrete Works'
Section 8	8.41 .1	Changed: 'Bedding' to 'Trenching'
Section 8	8.41 .3	Changed: 'Engineer' to 'City Engineer'
Section 8	8.41 .5	Added: 'in accordance with the Regional District of Nanaimo (RDN) Construction Waste Best Practices Guide'
Section 8	8.41 .5	Removed: 'as waste material'
Section 8	8.42 .1	Changed: 'Bedding' to 'Trenching'
Section 8	8.42 .5	Changed: 'Engineer' to 'City Engineer'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 8	8.43	Changed: 'Tactile Warning Surface Indicators' to 'Tactile Walking Surface Indicators'
Section 8	8.43 .1	Changed: 'manufacturer's recommendations' to 'manufacture's specifications'
Section 8	8.44 .2	Changed: 'manufacturer's recommendations' to 'manufacture's specifications'
Section 8	8.45 .1 (d)	Added: ', as per Section 8.11 and Section 8.12'
Section 8	8.45 .2 (f)	Changed: 'City of Nanaimo' to 'City'
Section 8	8.45 .2 (f)	Changed: 'Developer' to 'Applicant'
Section 8	Std.Dwg. CS-1	Added to [in label]: 'LANDSCAPING AS PER SECTION 14.0.'
Section 8	Std.Dwg. CS-1	Added to [in label]: 'PAVED ROADWAY SURFACE STRUCTURE AS PER SECTION 9.0 BASED ON STREET CLASSIFICATION.'
Section 8	Std.Dwg. CS-1	Changed [in label]: 'ROAD' to 'ROADWAY'
Section 8	Std.Dwg. CS-1	Changed [Note 1]: ', REFER TO' to 'AS PER'
Section 8	Std.Dwg. CS-1	Changed [Note 2]: 'REFER TO' to 'AS PER'
Section 8	Std.Dwg. CS-1	Changed [Note 6]: 'METERS' to 'METRES'
Section 8	Std.Dwg. CS-1	Removed from [in label]: '25'
Section 8	Std.Dwg. CS-1	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-1	Removed from [Note 7]: 'REINFORCING BARS OR CONCRETE FOOTING REQUIRED FOR LANE ACCESSES AND FOR COMMERCIAL AND INDUSTRIAL DRIVEWAY ACCESSES.'
Section 8	Std.Dwg. CS-12	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-12	Removed from [in label]: 'WIDE'
Section 8	Std.Dwg. CS-13	Added to [in label]: 'MINIMUM'
Section 8	Std.Dwg. CS-13	Added to [in label]: 'MINIMUM 1%'
Section 8	Std.Dwg. CS-13	Added to [Note 1]: 'PROFESSIONAL OF RECORD'
Section 8	Std.Dwg. CS-13	Added to [Note 3]: 'INTERCEPT DRAINAGE UPSTREAM OF CROSSWALK.'
Section 8	Std.Dwg. CS-13	Added to [Note 5]: 'PROFESSIONAL OF RECORD'
Section 8	Std.Dwg. CS-13	Added to [Note 6]: 'CONCRETE AS PER SECTION 11.0. '
Section 8	Std.Dwg. CS-13	Added to [Note 7]: 'LANDSCAPING AS PER SECTION 14.0.'
Section 8	Std.Dwg. CS-13	Changed [Note 5]: 'DIAGRAMMATIC' to 'DIAGRAPHIC. PEDESTRIAN SIGNALS AS PER SECTION'
Section 8	Std.Dwg. CS-13	Removed from [in label]: '1.2m LANDING/BYPASS AS SITE CONDITIONS PERMIT'
Section 8	Std.Dwg. CS-13	Removed from [in label]: 'MAY 2020'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 8	Std.Dwg. CS-13	Removed from [in label]: 'MIN'
Section 8	Std.Dwg. CS-13	Removed from [Note 1]: 'DIMENSIONS SHALL BE DETERMINED BY THE ENGINEER'
Section 8	Std.Dwg. CS-13	Removed from [Note 3]: 'CURB LET DOWN AND SHOULD BE LOCATED UP STREAM OF .'
Section 8	Std.Dwg. CS-14	Added to [in label]: 'MINIMUM'
Section 8	Std.Dwg. CS-14	Added to [in label]: 'MINIMUM 1%'
Section 8	Std.Dwg. CS-14	Added to [Note 1]: 'PROFESSIONAL OF RECORD'
Section 8	Std.Dwg. CS-14	Added to [Note 3]: 'INTERCEPT DRAINAGE UPSTREAM OF CROSSWALK.'
Section 8	Std.Dwg. CS-14	Added to [Note 5]: 'PROFESSIONAL OF RECORD'
Section 8	Std.Dwg. CS-14	Added to [Note 6]: 'CONCRETE AS PER SECTION 11.0.'
Section 8	Std.Dwg. CS-14	Added to [Note 7]: 'LANDSCAPING AS PER SECTION 14.0.'
Section 8	Std.Dwg. CS-14	Changed [Note 5]: 'DIAGRAMMATIC' to 'DIAGRAPHIC. PEDESTRIAN SIGNALS AS PER SECTION'
Section 8	Std.Dwg. CS-14	Removed from [in label]: 'AS SITE CONDITIONS PERMIT'
Section 8	Std.Dwg. CS-14	Removed from [in label]: 'FLAT'
Section 8	Std.Dwg. CS-14	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-14	Removed from [in label]: 'MIN'
Section 8	Std.Dwg. CS-14	Removed from [in label]: 'MINIMUM'
Section 8	Std.Dwg. CS-14	Removed from [in label]: 'NOTE:'
Section 8	Std.Dwg. CS-14	Removed from [Note 1]: 'DIMENSIONS SHALL BE DETERMINED BY THE ENGINEER'
Section 8	Std.Dwg. CS-14	Removed from [Note 3]: 'CURB LET DOWN AND SHOULD BE LOCATED UP STREAM OF .'
Section 8	Std.Dwg. CS-15	Added to [in label]: 'BOTTOM OF DROP'
Section 8	Std.Dwg. CS-15	Added to [in label]: 'TOP OF DROP'
Section 8	Std.Dwg. CS-15	Added to [Note 1]: 'PROFESSIONAL OF RECORD'
Section 8	Std.Dwg. CS-15	Added to [Note 3]: 'INTERCEPT DRAINAGE UPSTREAM OF CROSSWALK.'
Section 8	Std.Dwg. CS-15	Added to [Note 5]: 'CONCRETE AS PER SECTION 11.0.'
Section 8	Std.Dwg. CS-15	Added to [Note 5]: 'PROFESSIONAL OF RECORD'
Section 8	Std.Dwg. CS-15	Added to [Note 6]: 'CONCRETE AS PER SECTION 11.0.'
Section 8	Std.Dwg. CS-15	Added to [Note 7]: 'LANDSCAPING AS PER SECTION 14.0.'
Section 8	Std.Dwg. CS-15	Changed [Note 5]: 'DIAGRAMMATIC' to 'DIAGRAPHIC. PEDESTRIAN SIGNALS AS PER SECTION'
Section 8	Std.Dwg. CS-15	Removed from [in label]: 'AS SITE CONDITIONS PERMIT'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 8	Std.Dwg. CS-15	Removed from [in label]: 'BOTTOM OF DROP'
Section 8	Std.Dwg. CS-15	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-15	Removed from [Note 1]: 'DIMENSIONS SHALL BE DETERMINED BY THE ENGINEER'
Section 8	Std.Dwg. CS-15	Removed from [Note 3]: 'CURB LET DOWN AND SHOULD BE LOCATED UP STREAM OF .'
Section 8	Std.Dwg. CS-16	Added to [in label]: 'TWSI TO BE INSTALLED 200mm FROM CURB. REFER TO SECTION 8.10.'
Section 8	Std.Dwg. CS-16	Added to [Note 1]: 'AS PER DESIGN BY PROFESSIONAL OF RECORD'
Section 8	Std.Dwg. CS-16	Removed from [Note 2]: 'TO BE' & 'ARE TO'
Section 8	Std.Dwg. CS-16	Added to [Note 3]: 'INTERCEPT DRAINAGE UPSTREAM OF CROSSWALK.'
Section 8	Std.Dwg. CS-16	Added to [Note 5]: 'PROFESSIONAL OF RECORD'
Section 8	Std.Dwg. CS-16	Changed [Note 5]: 'DIAGRAMMATIC' to 'DIAGRAPHIC. PEDESTRIAN SIGNALS AS PER SECTION', & 'ENGINEER' to 'PROFESSIONAL OF RECORD'
Section 8	Std.Dwg. CS-16	Removed from [in label]: '2.0m'
Section 8	Std.Dwg. CS-16	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-16	Removed from [in label]: 'MIN 6'
Section 8	Std.Dwg. CS-16	Removed from [Note 1]: 'SHALL BE DETERMINED BY THE ENGINEER'
Section 8	Std.Dwg. CS-16	Removed from [Note 3]: 'CURB LET DOWN AND SHOULD BE LOCATED UP STREAM OF .'
Section 8	Std.Dwg. CS-17	Added to [in label]: '1% TO 4% CROSSFALL RANGE (SECTION 8.04 .4 (c))'
Section 8	Std.Dwg. CS-17	Added to [in label]: '1.5'
Section 8	Std.Dwg. CS-17	Added to [in label]: '4'
Section 8	Std.Dwg. CS-17	Added to [in label]: '5'
Section 8	Std.Dwg. CS-17	Added to [in label]: 'VARIES'
Section 8	Std.Dwg. CS-17	Added to [Note 1]: 'PROFESSIONAL OF RECORD'
Section 8	Std.Dwg. CS-17	Added to [Note 2]: 'INTERCEPT DRAINAGE UPSTREAM OF CROSSWALK.'
Section 8	Std.Dwg. CS-17	Changed [in label]: '1.7m' to 'VARIES'
Section 8	Std.Dwg. CS-17	Changed [in label]: '5' to '7.1'
Section 8	Std.Dwg. CS-17	Removed from [in label]: '1.7m'
Section 8	Std.Dwg. CS-17	Removed from [in label]: '1.95'
Section 8	Std.Dwg. CS-17	Removed from [in label]: '3'
Section 8	Std.Dwg. CS-17	Removed from [in label]: '7.1'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 8	Std.Dwg. CS-17	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-17	Removed from [Note 1]: 'ENGINEER'
Section 8	Std.Dwg. CS-17	Removed from [Note 2]: 'CURB LET DOWN AND SHOULD BE LOCATED UP STREAM OF .'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: '2 m MIN.'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: '1000'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: '140'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: '2 m'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: '2 m MIN.'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: '4.5 m MIN.'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: '4.5 m MIN.2
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: '6% MAXIMUM RAMP'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: '600'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: '80 IS THE STANDARD HEIGHT 150 ON LOCAL ROADS STREETS (30km/h SPEED ZONES) HEIGHT TO BE REVIEWED FOR EACH INSTALLATION'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: 'CROSSWALK'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: 'CS-18 (new - MUP raised)'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: 'Date:'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: 'Dwg No:'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: 'EDGE OF RAISED ASPHALT'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: 'EXISTING ASPHALT'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: 'GRIND (SEE NOTE 3)'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: 'HEIGHT'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: 'RAISED ASPHALT CROSSWALK'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: 'RAMP TYP.'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: 'SECTION A-A'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: 'TACK COAT'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [in label]: 'ZEBRA CROSSWALK MARKING ALIGN WITH CENTERLINE OF ROADWAY'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [Note 1]: 'ASPHALTIC CONCRETE PAVEMENT AS PER SECTION 12.0.'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [Note 2]: 'PAVEMENT MARKINGS AS PER SECTION 8.0. ALL PAVEMENT MARKINGS ARE THERMOPLASTIC AS PER SECTION 8.'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [Note 3]: 'GRIND ASPHALT 40 mm IF EXISTING ASPHALT THICKNESS IS 75 mm OR GREATER OTHERWISE SAW-CUT AND REMOVE EXISTING ASPHALT. GRIND FULL WIDTH OF ROADWAY.'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [Note 4]: 'CROSSWALK TO TIE-IN DIRECTLY TO SIDEWALK ELEVATION ON EACH END WHERE SIDEWALK EXISTS OR IS BEING INSTALLED AS PART OF THE PROJECT. WHERE SIDEWALKS DON'T EXIST TAPER CROSSWALK ENDS TO WALKWAY GRADE AT MAX. 5% SLOPE.'
Section 8	Std.Dwg. CS-18 (new - MUP raised)	Added to [Note 5]: 'STORMWATER REVIEW MAYBE REQUESTED TO VERIFY CONVEYANCE AND COLLECTION OF RUNOFF. CATCH BASINS MAY BE REQUIRED.'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 8	Std.Dwg. CS-2	Added to [Note 7]: 'FOR ACCESSES TO LOCAL STREET LANES AND DRIVEWAYS FOR COMMERCIAL AND INDUSTRIAL'
Section 8	Std.Dwg. CS-2	Changed [in label]: 'ROAD' to 'ROADWAY'
Section 8	Std.Dwg. CS-2	Changed [Note 1]: 'REFER TO' to 'AS PER'
Section 8	Std.Dwg. CS-2	Changed [Note 2]: 'REFER TO' to 'AS PER'
Section 8	Std.Dwg. CS-2	Changed [Note 4]: 'LANE ACCESSES AND FOR COMMERCIAL AND INDUSTRIAL DRIVEWAY ACCESSES'to 'FOR ACCESSES TO LOCAL STREET, LANES, AND DRIVEWAYS FOR COMMERCIAL AND INDUSTRIAL'=> [Std.Dwg. CS-2]
Section 8	Std.Dwg. CS-2	Removed from [in label]: '25'
Section 8	Std.Dwg. CS-2	Removed from [in label]: '40'
Section 8	Std.Dwg. CS-2	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-2	Removed from [Note 3]: 'THE LENGTH OF TRANSITION FROM ONE TYPE OF CURB TO ANOTHER SHALL BE THE GREATEST OF:'
Section 8	Std.Dwg. CS-2	Removed from [Note 3a]: '50 x DIFFERENCE IN OVERALL CURB HEIGHTS.'
Section 8	Std.Dwg. CS-2	Removed from [Note 3b]: '25 x DIFFERENCE IN GUTTER WIDTHS.'
Section 8	Std.Dwg. CS-2	Removed from [Note 3c): '2.0 METERS.'
Section 8	Std.Dwg. CS-20	Added to [in label]: 'AS PER SECTION 13.0'
Section 8	Std.Dwg. CS-20	Added to [in label]: 'KEY END INTO ROAD STRUCTURE'
Section 8	Std.Dwg. CS-20	Added to [in label]: 'SEE SECTION B-B FOR END DEPTHS'
Section 8	Std.Dwg. CS-20	Added to [Note 1]: 'CONCRETE AND REINFORCEMENT REQUIREMENTS AS PER SECTION 11.0.'
Section 8	Std.Dwg. CS-20	Added to [Note 2]: 'CONCRETE SURFACE TREATMENT AS PER SECTION 13.0.'
Section 8	Std.Dwg. CS-20	Added to [Note 3]: 'PAVED ROADWAY SURFACE PER SECTION 9.0 BASED ON STREET CLASSIFICATION. IN EXISTING CONDITIONS THE DEPTHS NEED TO BE VERIFIED. '
Section 8	Std.Dwg. CS-20	Added to [Note 4]: 'LENGTH MAY VARY DEPENDING ON LANE WIDTH LANE ALIGNMENT AND OPERATING SPEEDS. TYPICALLY THE TAPER LENGTH IS BETWEEN 10:1 TO 15:1.'
Section 8	Std.Dwg. CS-20	Added to [Note 5]: 'THIS STANDARD MAY BE USED IN THE ROADWAY FOR TRAFFIC CALMING PURPOSES AT DIRECTIONS OF CITY ENGINEER. REFER TO ENGINEERING DRAWING FOR DIMENSIONS AND SITE-SPECIFIC INSTALLATIONS.'
Section 8	Std.Dwg. CS-20	Changed [in label]: 'SEE SECTION B-B FOR END DEPTHS' to '150mm'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 8	Std.Dwg. CS-20	Removed from [in label]: '0.03'
Section 8	Std.Dwg. CS-20	Removed from [in label]: '150mm'
Section 8	Std.Dwg. CS-20	Removed from [in label]: 'IF MEDIAN IS LANDSCAPED INSTALL LANDSCAPE DRAIN AS PER SECTION 14 0 '
Section 8	Std.Dwg. CS-20	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-20	Removed from [in label]: 'MEDIAN'
Section 8	Std.Dwg. CS-20	Removed from [in label]: 'MULTI-USE PATH'
Section 8	Std.Dwg. CS-21	Added to [in label]: '2H:1V'
Section 8	Std.Dwg. CS-21	Changed [in label]: 'ASPHALTIC CONCRETE PAVEMENT AS PER SECTION 12.0. MINIMUM OF 75 mm THICK IF VEHICLE TRAFFIC IS ANTICIPATED OR MINIMUM 60 mm THICK FOR PEDESTRIAN, CYCLIST, AND MICRO-MOBILITY USERS.
Section 8	Std.Dwg. CS-21	Added to [in label]: 'TYPICAL . OR WIDER AS REQUIRED'
Section 8	Std.Dwg. CS-21	Changed [Note 1]: 'SHALL BE' to 'IS' & '2.5m' to '3.0M AND A MINIMUM 1.0M'
Section 8	Std.Dwg. CS-21	Added to [Note 2]: 'LONGITUDINAL'
Section 8	Std.Dwg. CS-21	Added to [Note 2]: 'STAIRS PERMITTED ONLY WITH APPROVAL FROM CITY ENGINEER'
Section 8	Std.Dwg. CS-21	Changed [Note 4]: 'SHALL BE' to 'IS'
Section 8	Std.Dwg. CS-21	Changed [Note 2]: 'TRAIL' to 'LONGITUDINAL'
Section 8	Std.Dwg. CS-21	Changed [Note 3]: 'REFER TO BICYCLE FACILITY DESIGN GUIDELINES' to 'FOR CYCLIST'
Section 8	Std.Dwg. CS-21	Changed [Title]: 'MULTI-USE PATHS' (HARD SURFACE) TO 'TRAILS AND MULTI-USE PATHS HARD SURFACE'
Section 8	Std.Dwg. CS-21	Removed from [in label]: '2:1 SLOPE'
Section 8	Std.Dwg. CS-21	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-21	Removed from [in label]: 'SLOPE'
Section 8	Std.Dwg. CS-21	Removed from [in label]: 'TO BE'
Section 8	Std.Dwg. CS-21	Removed from [Note 4]: 'TO A MAXIMUM 5.0m'
Section 8	Std.Dwg. CS-21	Removed from [Note 5]: 'REFER TO CITY OF NANAIMO - TRAIL PLAN - DESIGN GUIDELINES (MAY 2007) FOR ADDITIONAL DESIGN INFORMATION.'
Section 8	Std.Dwg. CS-21	Removed from [Note 6]: 'ALL TWSIs TO BE DESIGNED AND INSTALLED AS PER SECTION 8 .'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Added to [in label]: '100mm ROAD BASE AS PER SECTION 9 0 (MIN. 0.95 MPD)'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Added to [in label]: '150 GRADED FOR DRAINAGE CONVEYANCE AND MAINTENANCE.'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Added to [in label]: '150mm ROAD BASE AS PER SECTION 9 0 (MIN. 0.95 MPD)'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Added to [in label]: '3% SUSTAINED GRADE 5% GRADE FOR DISTANCES 30m OR LESS 10% GRADE FOR DISTANCES 15m OR LESS'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Added to [in label]: 'BARRIER CURB AND GUTTER PREFERRED. ALTERNATIVE TO BE APPROVED BY CITY ENGINEER.'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Added to [in label]: 'CS-21A'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Added to [in label]: 'PAVED SURFACE MINIMUM OF 50 mm ASPHALT FOR PEDESTRIAN'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Added to [in label]: 'SUBGRADE AS PER SECTION 9 (MIN. 0.95 MPD)'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Added to [Note 10]: 'CONCRETE AS PER SECTION 11.0.'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Added to [Note 11]: 'LANDSCAPING AS PER SECTION 14.0.'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Added to [Note 12]: 'ASPHALTIC CONCRETE PAVEMENT AS PER SECTION 12.0.'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Added to [Note 13]: 'BARRIER CURB AND GUTTER AS PER STANDARD DRAWING CS-1.'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Added to [Note 14]: 'HANDRAILS OR FENCING MAY BE NEEDED AS PER SECTION 8.0.'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Added to [Note 15]: 'STORMWATER REVIEW MAYBE REQUESTED TO VERIFY CONVEYANCE AND COLLECTION OF RUNOFF. CATCH BASIN MAY BE REQUIRED.'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Added to [Note 3]: 'OF'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Added to [Note 7]: 'LONGITUDINAL'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Changed [in label]: '100' to '150' '=>[Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)]
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Changed [in label]: 'CS-10C' to 'CS-21A'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Changed [in label]: 'GRADE SHALL BE EVEN AND SLOPE TO BE APPROVED BY CITY ENGINEER.' to 'GRADED FOR DRAINAGE CONVEYANCE AND MAINTENANCE.'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Changed [in label]: 'NON-MOUNTABLE CONCRETE CURB AS PER STD- DWG. CS-1 AND CS-2' to 'BARRIER CURB AND GUTTER PREFERRED. ALTERNATIVE TO BE APPROVED BY CITY ENGINEER.'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Changed [in label]: '-PREFERRED MAXIMUM 10% -MAXIMUM 30%' to '-3% SUSTAINED GRADE - 5% GRADE FOR DISTANCES 30m OR LESS -10% GRADE FOR DISTANCES 15m OR LESS=> [Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)]
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Changed [Note 3]: 'SHALL BE' to 'OF'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Changed [Note 5]: 'SHALL BE' to 'IS'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Changed [Note 6]: 'SHALL BE' to 'IS'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Changed [Note 7]: 'TRAIL' to 'LONGITUDINAL' => (FORMERLY CS-10C REMOVED 2020 EDITION)]
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Changed [Title]: 'PARK CONNECTOR WALKWAY PEDESTRIAN PATHWAY & PEDESTRIAN TRAIL' TO 'TRAILS AND MULTI-USE PATHS PEDESTRIAN PATHWAY'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Removed from [in label]: 'CS-10C'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Removed from [in label]: 'NOV 2016'
Section 8	Std.Dwg. CS-21A (FORMERLY CS-10C REMOVED 2020 EDITION)	Removed from [Note 8]: 'MINIMIZE HORIZONTAL CURVES AND'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 8	Std.Dwg. CS-22	Added to [in label]: '5. LIGHTING AS PER SECTION 10.0. LIGHTING REQUIREMENTS ARE TO BE DETERMINED BY A PROFESSIONAL OF RECORD 6. HANDRAILS OR FENCING MAY BE NEEDED AS PER SECTION 8.16.1(a) 7. STORMWATER REVIEW MAYBE REQUESTED TO VERIFY CONVEYANCE AND COLLECTION OF RUNOFF. DESIGN AS PER SECTION 7.0.'
Section 8	Std.Dwg. CS-22	Added to [in label]: 'TYPICAL 3 . TO 5.0 OR WIDER AS REQUIRED'
Section 8	Std.Dwg. CS-22	Added to [Note 1]: '3.0m'
Section 8	Std.Dwg. CS-22	Added to [Note 2]: 'LONGITUDINAL'
Section 8	Std.Dwg. CS-22	Added to [Note 3]: 'FOR CYCLIST'
Section 8	Std.Dwg. CS-22	Changed [in label]: '3' to '2'
Section 8	Std.Dwg. CS-22	Changed [in label]: 'OR WIDER AS REQUIRED' to 'TO 4.0m'
Section 8	Std.Dwg. CS-22	Changed [Title]: 'MULTI-USE PATHS' (SOFT SURFACE) TO 'TRAILS AND MULTI-USE PATHS SOFT SURFACE'
Section 8	Std.Dwg. CS-22	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-22	Removed from [Note 1]: '2.5m'
Section 8	Std.Dwg. CS-22	Removed from [Note 3]: '. REFER TO BICYCLE FACILITY DESIGN GUIDELINES.'
Section 8	Std.Dwg. CS-22	Removed from [Note 5]: 'REFER TO CITY OF NANAIMO - TRAIL PLAN - DESIGN GUIDELINES (MAY 2007) FOR ADDITIONAL DESIGN INFORMATION'
Section 8	Std.Dwg. CS-22A (NEW)	Added to [in label]: 'CS-22A'
Section 8	Std.Dwg. CS-22A (NEW)	Added to [Note 1]: 'USE OF THE STANDARD IS SITE SPECIFIC AND REQUIRES APPROVAL BY THE CITY.'
Section 8	Std.Dwg. CS-22A (NEW)	Added to [Note 2]: 'SURFACE IS NATIVE SOIL MIXED WITH CRUSH. MIX IS SITE SPECIFIC AND DESIGN MAY BE REQUESTED BY CITY ENGINEER. '
Section 8	Std.Dwg. CS-22A (NEW)	Added to [Note 3]: 'VEGETATION CLEARANCE SHALL BE A MINIMUM VERTICAL CLEARANCE OF 2.5m AND A MINIMUM 0.5m HORIZONTAL CLEARANCE.'
Section 8	Std.Dwg. CS-22A (NEW)	Added to [Note 4]: 'TRAIL LONGITUDINAL GRADES TO SUIT TERRAIN UPTO MAXIMUM 30% SLOPE. SOME STAIRS ALLOWED.'
Section 8	Std.Dwg. CS-22A (NEW)	Added to [Note 5]: 'ENSURE ADEQUATE SITE LINES ON CORNERS.'
Section 8	Std.Dwg. CS-22A (NEW)	Added to [Note 6]: 'RESIDENTIAL BUFFER IS A MINIMUM OF 10.0m.'
Section 8	Std.Dwg. CS-22A (NEW)	Added to [Note 7]: 'LIGHTING AS PER SECTION 10.0. LIGHTING REQUIREMENTS ARE TO BE DETERMINED BY A PROFESSIONAL OF RECORD.'

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Section 8	Std.Dwg. CS-22A (NEW)	Added to [Note 8]: 'HANDRAILS OR FENCING MAY BE NEEDED AS PER SECTION 8.16.1(a) '
Section 8	Std.Dwg. CS-22A (NEW)	Added to [Note 9]: 'STORMWATER REVIEW MAYBE REQUESTED TO VERIFY CONVEYANCE AND COLLECTION OF RUNOFF.'
Section 8	Std.Dwg. CS-22A (NEW)	Added to [title]: 'TRAILS AND MULTI-USE PATHS NATURE'
Section 8	Std.Dwg. CS-22A (NEW)	Changed [in label]: '1.0 - 2.0m' to '2.0m TYPICAL'
Section 8	Std.Dwg. CS-22A (NEW)	Changed [in label]: 'WILDERNESS NATRE TRAIL (SOFT SURFACE)' to 'NATURE'
Section 8	Std.Dwg. CS-22B (NEW)	Added to [Note 10]: 'FIBERGLASS OR METAL MATERIALS MAY BE CONSIDERED AS SUBSTITUTIONS IN CERTAIN LOCATIONS AND CONDITIONS. '
Section 8	Std.Dwg. CS-22B (NEW)	Added to [Note 1]: 'USE OF THE STANDARD IS SITE SPECIFIC AND REQUIRES APPROVAL BY THE CITY PARKS RECREATION AND CULTURE. IT IS A LOW IMPACT STANDARD FOR SPECIFIC LOCATIONS WHERE DIFFICULT TERRAIN AND/OR SENSITIVE FEATURES ARE PRESENT . STRUCTURE TO BE KEPT AS LOW TO THE GROUND AS POSSIBLE.'
Section 8	Std.Dwg. CS-22B (NEW)	Added to [Note 2]: 'CONCRETE COLUMNS ARE 250 mm (10 in) DIAMETER EXTENDING 300 mm (12 in) INTO NATIVE GROUND OR LEVELED AND SECURED PIER BLOCKS. GALVANIZED SADDLE EMBEDDED INTO CONCRETE AT BASE OF EACH POST OR SET INTO CONCRETE PIER BLOCKS.'
Section 8	Std.Dwg. CS-22B (NEW)	Added to [Note 3]: 'POSTS ARE 150 x 150 mm (6 x 6 in) PRESSURE TREATED YELLOW CEDAR '
Section 8	Std.Dwg. CS-22B (NEW)	Added to [Note 4]: 'BEAMS ARE MINIMUM 150 x 150 mm (6 x 6 in)) PRESSURE TREATED DIMENSION LUMBER. TYPICAL LENGTH IS 1800 mm (6 ft). LONGER SPANS MAY REQUIRE LARGER DIMENSIONAL LUMBER.'
Section 8	Std.Dwg. CS-22B (NEW)	Added to [Note 5]: 'JOISTS ARE MINIMUM 50 x 200 mm (2 x 8 in) PRESSURE TREATED DIMENSION LUMBER. SPACED AT MINIMUM 400 mm (16 in) ON CENTER. TYPICAL LENGTH IS 2435 mm (8 ft). LONGER SPANS MAY REQUIRE DIMENSIONAL LUMBER. CROSS BRACING MAYBE REQUIRED.'
Section 8	Std.Dwg. CS-22B (NEW)	Added to [Note 6]: 'HEADERS ARE DOUBLE 50 mm X 250 mm (2 x 10 in) PRESSURE TREATED DIMENSION LUMBER. '
Section 8	Std.Dwg. CS-22B (NEW)	Added to [Note 7]: 'DECKING IS PRESSURE TREATED DIMENSION LUMBER. '
Section 8	Std.Dwg. CS-22B (NEW)	Added to [Note 8]: 'NO NAILS. USE 75 mm (3 in) EXTERIOR SCREWS.'

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Section 8	Std.Dwg. CS-22B (NEW)	Added to [Note 9]: ' RAILINGS ARE REQUIRED WHEN ELEVATION DIFFERENCE FROM GROUND TO DECK HEIGHT ABOVE 0.6 m (2 ft).'
Section 8	Std.Dwg. CS-23	Added to [in label]: 'CONCRETE'
Section 8	Std.Dwg. CS-23	Added to [Note 1]: 'MORE THAN ONE'
Section 8	Std.Dwg. CS-23	Added to [Note 4]: 'ASPHALT'
Section 8	Std.Dwg. CS-23	Changed [Note 1]: 'MORE THAN ONE' to 'POUR'
Section 8	Std.Dwg. CS-23	Removed from [in label]: 'CONC'
Section 8	Std.Dwg. CS-23	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-23	Removed from [Note 1]: 'POUR NO MORE THAN TWO SEPARATE POURS'
Section 8	Std.Dwg. CS-23	Removed from [Note 4]: 'AC'
Section 8	Std.Dwg. CS-24	Added to [in label]: 'STREET'
Section 8	Std.Dwg. CS-24	Added to [Note 2]: 'AS PER SECTION 8.04.4A'
Section 8	Std.Dwg. CS-24	Added to [Note 3]: 'PROFESSIONAL OF RECORD'
Section 8	Std.Dwg. CS-24	Added to [Note 4]: 'PROPERTIES FRONTING ON COLLECTOR OR ARTERIAL STREETS SHOULD PROVIDE ACCESS ON LOCAL STREET OR LANE WHEREVER AVAILABLE.'
Section 8	Std.Dwg. CS-24	Changed [in label]: 'BIKE PATH' to 'CYCLE TRACK'
Section 8	Std.Dwg. CS-24	Changed [Note 3]: 'PROFESSIONAL OF RECORD' to ';'.
Section 8	Std.Dwg. CS-24	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-24	Removed from [in label]: 'ROAD'
Section 8	Std.Dwg. CS-24	Removed from [Note 2]: 'SEE SECTION 8.04.4A FOR'
Section 8	Std.Dwg. CS-24	Removed from [Note 3]: 'PROFESSIONAL ENGINEER ;'
Section 8	Std.Dwg. CS-25	Added to [in label]: '.'
Section 8	Std.Dwg. CS-25	Added to [in label]: 'CURB RAMP'
Section 8	Std.Dwg. CS-25	Added to [in label]: 'NOTE 4'
Section 8	Std.Dwg. CS-25	Added to [Note 1]: 'PROFESSIONAL OF RECORD'
Section 8	Std.Dwg. CS-25	Added to [Note 2]: 'AS PER STANDARD DRAWING CS-8'
Section 8	Std.Dwg. CS-25	Changed [in label]: '1.0m' to 'NOTE 4'
Section 8	Std.Dwg. CS-25	Changed [in label]: 'BIKE PATH' to 'CYCLE TRACK'
Section 8	Std.Dwg. CS-25	Changed [Note 2]: 'DWG.' to 'AS PER STANDARD DRAWING CS-8'=> [Std.Dwg. CS-25]
Section 8	Std.Dwg. CS-25	Removed from [in label]: '1.0m'
Section 8	Std.Dwg. CS-25	Removed from [in label]: 'MAY 2020'

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Section 8	Std.Dwg. CS-25	Removed from [in label]: 'SINGLE FAMILY'
Section 8	Std.Dwg. CS-25	Removed from [Note 1]: 'ENGINEER'
Section 8	Std.Dwg. CS-25	Removed from [Note 2]: 'FOR'
Section 8	Std.Dwg. CS-26	Added to [in label]: 'CURB RAMP'
Section 8	Std.Dwg. CS-26	Added to [in label]: 'NOTE 4'
Section 8	Std.Dwg. CS-26	Added to [Note 1]: 'PROFESSIONAL OF RECORD'
Section 8	Std.Dwg. CS-26	Added to [Note 2]: 'AS PER STANDARD DRAWING CS-8'
Section 8	Std.Dwg. CS-26	Changed [in label]: '1.0m' to 'NOTE 4'
Section 8	Std.Dwg. CS-26	Changed [Note 2]: 'AS PER STANDARD DRAWING CS-8' to 'SEE DWG.'
Section 8	Std.Dwg. CS-26	Removed from [in label]: '1.0m'
Section 8	Std.Dwg. CS-26	Removed from [in label]: 'SINGLE FAMILY'
Section 8	Std.Dwg. CS-26	Removed from [Note 1]: 'ENGINEER'
Section 8	Std.Dwg. CS-26	Removed from [Note 2]: 'FOR'
Section 8	Std.Dwg. CS-27 (REPLACEMENT)	Added to [in label]: 'Dwg No: CS-27'
Section 8	Std.Dwg. CS-27 (REPLACEMENT)	Added to [in label]: 'Engineering Standards & Specifications Edition 15'
Section 8	Std.Dwg. CS-27 (REV and now Replaced)	Added to [in label]: '2'
Section 8	Std.Dwg. CS-27 (REV and now Replaced)	Added to [in label]: 'MINIMUM 2.0m TANGENT'
Section 8	Std.Dwg. CS-27 (REV and now Replaced)	Added to [Note 3]: 'METRES'
Section 8	Std.Dwg. CS-27 (REV and now Replaced)	Added to [Note 4]: 'BANDING/BUFFER OF WIDTH 0.45m STAMPED CONCRETE AS PER SECTION 13.0.'
Section 8	Std.Dwg. CS-27 (REV and now Replaced)	Changed [Note 3]: 'METERS' to 'METRES'
Section 8	Std.Dwg. CS-27 (REV and now Replaced)	Removed from [in label]: '3'

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Section 8	Std.Dwg. CS-27 (REV and now Replaced)	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-27 (REV and now Replaced)	Removed from [in label]: 'See updated version'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: '2 m MIN.'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: '3 m MIN.'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: '1000'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: '1400'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: '2 m MIN.'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: '2 m RAMP TYPICAL'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: '3 m MINIMUM .'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: '6% MAXIMUM RAMP'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: '600'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: '80mm IS THE STANDARD HEIGHT 150mm ON LOCAL ROADS STREETS (30km/h SPEED ZONES) HEIGHT TO BE REVIEWED FOR EACH INSTALLATION'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: 'CROSSWALK'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: 'CS- 28'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: 'DRIVEWAYS AND CROSSINGS RAISED ASPHALT CROSSWALK PEDESTRIANS'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: 'Dwg No:'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: 'EDGE OF RAISED ASPHALT'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: 'Engineering Standards & Specifications Edition 15'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: 'EXISTING ASPHALT ROADWAY'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: 'G:\DESIGN\STANDARD DWGS - NON MOESS\RAISED CROSSWALK DETAIL'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: 'GRIND (SEE NOTE 3)'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: 'HEIGHT'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: 'NOTE:'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: 'SECTION A-A'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: 'TACK COAT'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: 'TIE INTO EDGE OF CURB OR TAPER TO EXISTING ASPHALT'

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Section 8	Std.Dwg. CS-28 (new - raised)	Added to [in label]: 'ZEBRA CROSSWALK MARKINGS TO BE ON THE CENTERLINE OF ROADWAY'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [Note 1]: 'ASPHALTIC CONCRETE PAVEMENT AS PER SECTION 12.0.'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [Note 2]: 'PAVEMENT MARKINGS AS PER SECTION 8.0. ALL PAVEMENT MARKINGS ARE THERMOPLASTIC AS PER SECTION 8. 0'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [Note 3]: 'GRIND ASPHALT 40mm IF EXISTING ASPHALT THICKNESS IS 75mm OR GREATER OTHERWISE SAW-CUT AND REMOVE EXISTING ASPHALT. GRIND FULL WIDTH OF ROADWAY.'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [Note 4]: 'CROSSWALK TO TIE-IN DIRECTLY TO SIDEWALK ELEVATION ON EACH END WHERE SIDEWALK EXISTS OR IS BEING INSTALLED AS PART OF THE PROJECT. WHERE SIDEWALKS DON'T EXIST TAPER CROSSWALK ENDS TO WALKWAY GRADE AT MAX. 5% SLOPE.'
Section 8	Std.Dwg. CS-28 (new - raised)	Added to [Note 5]: 'STORMWATER REVIEW MAYBE REQUESTED TO VERIFY CONVEYANCE AND COLLECTION OF RUNOFF. CATCH BASINS MAY BE REQUIRED.'
Section 8	Std.Dwg. CS-29 (new)	Added to [in label]: 'DRIVEWAYS AND CROSSINGS SPEED HUMP AND SPEED BUMP DETAIL'
Section 8	Std.Dwg. CS-29 (new)	Added to [in label]: 'Engineering Standards & Specifications Edition 15'
Section 8	Std.Dwg. CS-29 (new)	Added to [in label]: 'GRIND (SEE NOTE 3)'
Section 8	Std.Dwg. CS-29 (new)	Added to [Note 1]: 'ASPHALTIC CONCRETE PAVEMENT AS PER SECTION 12.0.'
Section 8	Std.Dwg. CS-29 (new)	Added to [Note 10]: 'RAILINGS ARE REQUIRED WHEN ELEVATION DIFFERENCE FROM GROUND TO DECK HEIGHT ABOVE 0.6 m (2 ft). '
Section 8	Std.Dwg. CS-29 (new)	Added to [Note 2]: 'PAVEMENT MARKINGS AS PER SECTION 8.0. ALL PAVEMENT MARKINGS ARE THERMOPLASTIC AS PER SECTION 8.0.'
Section 8	Std.Dwg. CS-29 (new)	Added to [Note 3]: 'GRIND ASPHALT 40mm IF EXISTING ASPHALT THICKNESS IS 75mm OR GREATER OTHERWISE SAW-CUT AND REMOVE EXISTING ASPHALT. GRIND FULL WIDTH OF ROADWAY.'
Section 8	Std.Dwg. CS-29 (new)	Added to [Note 5]: 'ASPHALTIC CONCRETE PAVEMENT AS PER SECTION 12.0.'
Section 8	Std.Dwg. CS-29 (new)	Added to [Note 6]: 'PAVEMENT MARKINGS AS PER SECTION 8.0. ALL PAVEMENT MARKINGS ARE THERMOPLASTIC AS PER SECTION 8.0.'

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Section 8	Std.Dwg. CS-29 (new)	Added to [Note 7]: 'GRIND ASPHALT 40mm IF EXISTING ASPHALT THICKNESS IS 75mm OR GREATER OTHERWISE SAW-CUT AND REMOVE EXISTING ASPHALT. GRIND FULL WIDTH OF ROADWAY.'
Section 8	Std.Dwg. CS-3	Added to [in label]: 'MOUNTABLE'
Section 8	Std.Dwg. CS-3	Changed [in label]: 'ROAD' to 'ROADWAY'
Section 8	Std.Dwg. CS-3	Changed [Note 2]: 'REFER TO' to 'AS PER'
Section 8	Std.Dwg. CS-3	Changed [Note 3]: 'REFER TO' to 'AS PER'
Section 8	Std.Dwg. CS-3	Changed [Note 7]: 'METERS' to 'METRES'
Section 8	Std.Dwg. CS-3	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-30	Added to [in label]: 'MINIMUM'
Section 8	Std.Dwg. CS-30	Added to [in label]: 'MINIMUM 100 WIDE'
Section 8	Std.Dwg. CS-30	Added to [Note 1]: 'AND MULTI-USE TRAILS OR'
Section 8	Std.Dwg. CS-30	Added to [Note 3]: 'TRAVEL'
Section 8	Std.Dwg. CS-30	Added to [Note 4]: 'ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.'
Section 8	Std.Dwg. CS-30	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-30	Removed from [in label]: 'MIN'
Section 8	Std.Dwg. CS-30	Removed from [Note 3]: 'TRAIL'
Section 8	Std.Dwg. CS-31	Added to [in label]: 'CONCRETE'
Section 8	Std.Dwg. CS-31	Added to [in label]: 'MINIMUM'
Section 8	Std.Dwg. CS-31	Added to [Note 11]: 'SHOP DRAWINGS TO BE APPROVED BY THE PROFESSIONAL OF RECORD.'
Section 8	Std.Dwg. CS-31	Added to [Note 7]: 'ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.'
Section 8	Std.Dwg. CS-31	Moved [in label]: 'SIDEWALK'
Section 8	Std.Dwg. CS-31	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-31	Removed from [in label]: 'MIN'
Section 8	Std.Dwg. CS-32	Added to [Note 7]: 'SHOP DRAWINGS TO BE APPROVED BY THE PROFESSIONAL OF RECORD.'
Section 8	Std.Dwg. CS-32	Added to [Note 4]: 'ALL STEEL TO BE BLACK POWER COATED TO ASTM D7803.'
Section 8	Std.Dwg. CS-32	Removed from [in label]: 'ALL RAILS PARALLEL TO WALK SURFACE'
Section 8	Std.Dwg. CS-32	Removed from [in label]: 'MAY'
Section 8	Std.Dwg. CS-33	Changed [in label]: 'STD DWG' to 'STANDARD DRAWING'

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Section 8	Std.Dwg. CS-33	Changed [Note 2]: 'REFER TO' to 'AS PER'
Section 8	Std.Dwg. CS-33	Changed [Note 4]: 'SEE STD DWG' to 'AS PER STANDARD DRAWING'
Section 8	Std.Dwg. CS-33	Added [Note 8]: 'DESIGN DRAWINGS TO SUIT SITE CONDITIONS ARE BY PROFESSIONAL OF RECORD.'
Section 8	Std.Dwg. CS-33	Changed [Note 7]: 'TO BE IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. CS-34	Added [Note 10]: 'DESIGN DRAWINGS FOR SITE CONDITIONS ARE BY PROFESSIONAL OF RECORD.'
Section 8	Std.Dwg. CS-34	Changed [Note 8]: 'REFER TO STD. DWG.' to 'AS PER STANDARD DRAWING'
Section 8	Std.Dwg. CS-35	Removed [Note 5]: 'REFER TO CITY OF NANAIMO - TRAIL PLAN - DESIGN GUIDELINES (MAY 2007) FOR ADDITIONAL DESIGN INFORMATION.'
Section 8	Std.Dwg. CS-35	Changed [Note 6]: 'STD. DWG.' to 'AS PER STANDARD DRAWING'
Section 8	Std.Dwg. CS-35	Removed from [Note 7]: 'AT EVERY STAIR LANDING'
Section 8	Std.Dwg. CS-35	Changed [Note 7]: 'SEALED BY A PROFESSIONAL ENGINEER' to 'AUTHENTICATED BY PROFESSIONAL OF RECORD'
Section 8	Std.Dwg. CS-36	Added [Note 2]: 'OFFSET'
Section 8	Std.Dwg. CS-36	Changed [Title]: 'FENCES' to 'FENCES AND GATES'
Section 8	Std.Dwg. CS-37	Changed [in label]: '10in' to '255'
Section 8	Std.Dwg. CS-37	Changed [Title]: 'FENCES' to 'FENCES AND GATES'
Section 8	Std.Dwg. CS-38 (New Gate)	Added [Title]: 'FENCES AND GATES PARK GATE'
Section 8	Std.Dwg. CS-4	Added to [Note 6]: 'METRES'
Section 8	Std.Dwg. CS-4	Changed [in label]: 'ROAD' to 'ROADWAY'
Section 8	Std.Dwg. CS-4	Changed [Note 2]: 'REFER TO' to 'AS PER'
Section 8	Std.Dwg. CS-4	Changed [Note 6]: 'METERS' to 'METRES'
Section 8	Std.Dwg. CS-4	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-4	Removed from [Note 1]: 'FOR'
Section 8	Std.Dwg. CS-4	Removed from [Note 2]: 'FOR'
Section 8	Std.Dwg. CS-40	Changed [Note 3]: 'ENSURE SLEEVES AND BASES MAINTAIN UTILITY CLEARANCES AND REVIEW AND REVIEW SIGN LOCATIONS WHERE CLEARANCE IS NOT POSSIBLE.' to 'ALTERNATIVE SIGN LOCATIONS MAY BE NECESSARY IN INSTANCES OF CONFLICT WITH UNDERGROUND'
Section 8	Std.Dwg. CS-5	Added to [detail]: 'Temporary Curb - Type 1 - Barrier Height'

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Section 8	Std.Dwg. CS-5	Added to [in label]: 'TEMPORARY CURB – TYPE 1 – BARRIER HEIGHT'
Section 8	Std.Dwg. CS-5	Added to [in label]: 'VERTICAL IF FORMED 1H:8V IF EXTRUDED'
Section 8	Std.Dwg. CS-5	Added to [Note 8]: 'APPLICATION OF THIS STANDARD AT THE DISCRETION OF THE CITY ENGINEER.'
Section 8	Std.Dwg. CS-5	Changed [Note 1]: 'REFER TO' to 'AS PER'
Section 8	Std.Dwg. CS-5	Changed [Note 2]: 'REFER TO' to 'AS PER'
Section 8	Std.Dwg. CS-5	Changed [Note 6]: 'METERS' to 'METRES'
Section 8	Std.Dwg. CS-5	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-5	Removed from [Note 1]: 'FOR'
Section 8	Std.Dwg. CS-5	Removed from [Note 2]: 'FOR'
Section 8	Std.Dwg. CS-6	Added to [in label]: 'CURB RAMP'
Section 8	Std.Dwg. CS-6	Changed [in label]: 'CURB RAMP' to 'LETDOWN'
Section 8	Std.Dwg. CS-6	Removed from [in label]: 'LETDOWN'
Section 8	Std.Dwg. CS-6	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-6	Removed from [in label]: 'ROAD'
Section 8	Std.Dwg. CS-7	Added to [in label]: '1.2m TO 2.2m MEDIAN INFILL CONCRETE 2.2m TO 4.5m MEDIAN INFILL LANDSCAPED'
Section 8	Std.Dwg. CS-7	Added to [in label]: '150'
Section 8	Std.Dwg. CS-7	Added to [in label]: 'AS PER SECTION 13.0.'
Section 8	Std.Dwg. CS-7	Added to [in label]: 'KEY END INTO ROAD STRUCTURE'
Section 8	Std.Dwg. CS-7	Added to [in label]: 'MIN.'
Section 8	Std.Dwg. CS-7	Added to [in label]: 'MIN. 150mm ASPHALT EDGE'
Section 8	Std.Dwg. CS-7	Added to [in label]: 'RADIUS AS PER ENGINEERING DRAWINGS'
Section 8	Std.Dwg. CS-7	Added to [in label]: 'REBAR SEE DETAIL B-B'
Section 8	Std.Dwg. CS-7	Changed [in label]: 'LIP' to 'EDGE'
Section 8	Std.Dwg. CS-7	Changed [in label]: 'STD DWG' to 'STANDARD DRAWING'
Section 8	Std.Dwg. CS-7	Removed from [in label]: '100'
Section 8	Std.Dwg. CS-7	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-8	Added to [in label]: 'PROFESSIONAL OF RECORD'
Section 8	Std.Dwg. CS-8	Added to [Note 1]: 'AS PER STANDARD DRAWINGS'
Section 8	Std.Dwg. CS-8	Added to [Note 6]: 'JOINTS'

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Section 8	Std.Dwg. CS-8	Changed [in label]: 'ENGINEER' to 'PROFESSIONAL OF RECORD'
Section 8	Std.Dwg. CS-8	Changed [Note 1]: 'SEE DWG.' to 'AS PER STANDARD DRAWINGS'
Section 8	Std.Dwg. CS-8	Changed [Note 3]: 'SEE' to 'AS PER'
Section 8	Std.Dwg. CS-8	Changed [Note 4]: 'SEE' to 'AS PER'
Section 8	Std.Dwg. CS-8	Changed [Note 6]: 'DIMENSIONS' to 'JOINTS'
Section 8	Std.Dwg. CS-8	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. CS-8	Removed from [Note 1]: 'FOR'
Section 8	Std.Dwg. CS-8	Removed from [Note 3]: 'FOR'
Section 8	Std.Dwg. CS-8	Removed from [Note 4]: 'FOR'
Section 8	Std.Dwg. IC-XS1	Added to [in label]: 'ACRONYMS: PL IS PROPERTY LINE FOC IS FACE OF CURB CL IS CENTER LINE'
Section 8	Std.Dwg. IC-XS1	Added to [Note 9]: 'AS PER SECTION 13.0'
Section 8	Std.Dwg. IC-XS1	Added to [Note 10]: 'DRIVEWAY'
Section 8	Std.Dwg. IC-XS1	Added to [Note 1]: 'AS PER SECTION 9.0 AND SECTION 12.0.'
Section 8	Std.Dwg. IC-XS1	Added to [Note 4]: 'FLAT AND VALLEY CURB AND GUTTER PER STANDARD DRAWING CS-4.'
Section 8	Std.Dwg. IC-XS1	Added to [Note 5]: 'MOUNTABLE'
Section 8	Std.Dwg. IC-XS1	Added to [Note 9]: 'AS PER SECTION 13.0'
Section 8	Std.Dwg. IC-XS1	Changed [in label]: '14' to '15'
Section 8	Std.Dwg. IC-XS1	Changed [Note 11]: 'GUIDELINES' to 'GUIDE'
Section 8	Std.Dwg. IC-XS1	Changed [Note 12]: 'TO BE IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. IC-XS1	Changed [Note 13]: 'TO BE IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. IC-XS1	Changed [Note 4]: 'TO BE USED IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. IC-XS1	Changed [Note 8]: 'BIKE PATH SHALL BE' to 'CYCLE TRACK IS'
Section 8	Std.Dwg. IC-XS1	Changed [Note 8]: 'WITH TRANSVERSE SCORE LINES AT 0.3M INTERVALS' to 'AS PER SECTION 13.0.', added 'A CUSTOM', changed 'UTILIZED' to 'PROPOSED'
Section 8	Std.Dwg. IC-XS1	Moved [in label]: 'SIDEWALK'
Section 8	Std.Dwg. IC-XS1	Changed [in label]: 'BIKE PATH' to 'CYCLE TRACK'
Section 8	Std.Dwg. IC-XS1	Removed from [Note 6]: 'AND IN SOME CASES WILL HAVE TO BE INCREASED TO MEET MAXIMUM ALLOWABLE BENKELMAN BEAM DEFLECTION.'
Section 8	Std.Dwg. IC-XS1	Removed from [in label]: 'JULY 2022'

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Section 8	Std.Dwg. IC-XS1	Removed from [in label]: 'No. 14'
Section 8	Std.Dwg. IC-XS1	Changed [Note 10]: 'ROAD' to 'STREET'
Section 8	Std.Dwg. IL-XS1	Added to [in label]: 'ACRONYMS: PL IS PROPERTY LINE FOC IS FACE OF CURB CL IS CENTER LINE MUP IS MULTI-USE PATH'
Section 8	Std.Dwg. IL-XS1	Added to [Note 1]: 'AS PER SECTION 9.0 AND SECTION 12.0.'
Section 8	Std.Dwg. IL-XS1	Added to [Note 4]: 'MOUNTABLE CURB AND GUTTER AS PER STANDARD DRAWING CS-3. FLAT AND VALLEY CURB AND GUTTER PER STANDARD DRAWING CS-4.'
Section 8	Std.Dwg. IL-XS1	Added to [Note 5]: 'MOUNTABLE'
Section 8	Std.Dwg. IL-XS1	Added to [Note 8]: 'AS PER SECTION 13.0'
Section 8	Std.Dwg. IL-XS1	Changed [in label]: '14' to '15'
Section 8	Std.Dwg. IL-XS1	Changed [in labels]: 'M' to 'm'
Section 8	Std.Dwg. IL-XS1	Changed [Note 10]: 'TO BE IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. IL-XS1	Changed [Note 11]: 'TO BE IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. IL-XS1	Changed [Note 4]: 'TO BE USED IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. IL-XS1	Changed [Note 9]: 'GUIDELINES' to 'GUIDE'
Section 8	Std.Dwg. IL-XS1	Removed from [in label]: 'JULY 2022'
Section 8	Std.Dwg. IL-XS1	Removed from [in label]: 'No. 14'
Section 8	Std.Dwg. L-XS1	Added to [in label]: 'ACRONYMS: PL IS PROPERTY LINE FOC IS FACE OF CURB CL IS CENTER LINE'
Section 8	Std.Dwg. L-XS1	Added to [Note 1]: 'AS PER SECTION 9.0 AND SECTION 12.0.'
Section 8	Std.Dwg. L-XS1	Added to [Note 4]: 'MOUNTABLE CURB AND GUTTER AS PER STANDARD DRAWING CS-3.'
Section 8	Std.Dwg. L-XS1	Changed [Note 4]: 'TO BE USED IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. L-XS1	Changed [Note 6]: 'TO BE IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. L-XS1	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. MA-XS1	Added to [in label]: 'ACRONYMS: PL IS PROPERTY LINE FOC IS FACE OF CURB CL IS CENTER LINE'
Section 8	Std.Dwg. MA-XS1	Added to [Note 1]: 'AS PER SECTION 9.0 AND SECTION 12.0.'
Section 8	Std.Dwg. MA-XS1	Added to [Note 8]: 'AS PER SECTION 13.0 CS-3 '
Section 8	Std.Dwg. MA-XS1	Added to [Note 9]: 'DRIVEWAY'
Section 8	Std.Dwg. MA-XS1	Changed [in label]: 'BIKE PATH' to 'CYCLE TRACK'

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Section 8	Std.Dwg. MA-XS1	Changed [Note 10]: 'GUIDELINES' to 'GUIDE'
Section 8	Std.Dwg. MA-XS1	Changed [Note 11]: 'TO BE IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. MA-XS1	Changed [Note 4]: 'TO BE USED IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. MA-XS1	Changed [Note 5]: 'TO BE LANDSCAPED WHERE POSSIBLE AND IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. MA-XS1	Changed [Note 8]: 'BIKE PATH SHALL BE' to 'CYCLE TRACK IS'
Section 8	Std.Dwg. MA-XS1	Changed [Note 9]: 'ROAD' to 'STREET'
Section 8	Std.Dwg. MA-XS1	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. MC-XS1	Added to [in label]: 'ACRONYMS: PL IS PROPERTY LINE FOC IS FACE OF CURB CL IS CENTER LINE'
Section 8	Std.Dwg. MC-XS1	Added to [in label]: 'SIDEWALK'
Section 8	Std.Dwg. MC-XS1	Added to [Note 1]: 'AS PER SECTION 9.0 AND SECTION 12.0.'
Section 8	Std.Dwg. MC-XS1	Added to [Note 10]: 'AS PER SECTION 13.0.'
Section 8	Std.Dwg. MC-XS1	Added to [Note 11]: 'DRIVEWAY'
Section 8	Std.Dwg. MC-XS1	Added to [Note 7]: 'AND/'
Section 8	Std.Dwg. MC-XS1	Added to [Note 9]: 'AS PER SECTION 13.0'
Section 8	Std.Dwg. MC-XS1	Changed [Note 11]: 'ROAD' to 'STREET'
Section 8	Std.Dwg. MC-XS1	Changed [Note 12]: 'GUIDELINES' to 'GUIDE'
Section 8	Std.Dwg. MC-XS1	Changed [Note 13]: 'TO BE IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. MC-XS1	Changed [Note 4]: 'TO BE USED IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. MC-XS1	Changed [Note 5]: 'TO BE LANDSCAPED WHERE POSSIBLE AND IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. MC-XS1	Changed [Note 9]: 'BIKE PATH SHALL BE' to 'CYCLE TRACK IS'
Section 8	Std.Dwg. MC-XS1	Moved [in label]: 'SIDEWALK'
Section 8	Std.Dwg. MC-XS1	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. MC-XS1	Removed from [Note 5]: 'TO BE LANDSCAPED WHERE POSSIBLE AND IN ACCORDANCE WITH'
Section 8	Std.Dwg. MC-XS2	Added to [in label]: 'ACRONYMS: PL IS PROPERTY LINE FOC IS FACE OF CURB CL IS CENTER LINE'
Section 8	Std.Dwg. MC-XS2	Added to [Note 1]: 'AS PER SECTION 9.0 AND SECTION 12.0.'
Section 8	Std.Dwg. MC-XS2	Added to [Note 10]: 'AS PER SECTION 13.0'

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Section 8	Std.Dwg. MC-XS2	Added to [Note 11]: 'AS PER SECTION 13.0'
Section 8	Std.Dwg. MC-XS2	Added to [Note 12]: 'DRIVEWAY'
Section 8	Std.Dwg. MC-XS2	Added to [Note 14]: 'AS PER 0'
Section 8	Std.Dwg. MC-XS2	Added to [Note 4]: 'FLAT AND VALLEY CURB AND GUTTER PER STANDARD DRAWING CS-4.'
Section 8	Std.Dwg. MC-XS2	Added to [Note 6]: 'MOUNTABLE'
Section 8	Std.Dwg. MC-XS2	Changed [Note 10]: 'BIKE PATH SHALL BE' to 'CYCLE TRACK IS'
Section 8	Std.Dwg. MC-XS2	Changed [Note 12]: 'ROAD' to 'STREET'
Section 8	Std.Dwg. MC-XS2	Changed [Note 13]: 'GUIDELINES' to 'GUIDE'
Section 8	Std.Dwg. MC-XS2	Changed [Note 14]: 'TO BE IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. MC-XS2	Changed [Note 4]: 'TO BE USED IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. MC-XS2	Changed [Note 5]: 'TO BE LANDSCAPED WHERE POSSIBLE AND IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. MC-XS2	Moved [in label]: 'SIDEWALK'
Section 8	Std.Dwg. MC-XS2	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. MC-XS2	Removed from [Note 5]: 'TO BE LANDSCAPED WHERE POSSIBLE AND IN ACCORDANCE WITH'
Section 8	Std.Dwg. ML-XS1	Added to [in label]: 'ACRONYMS: PL IS PROPERTY LINE FOC IS FACE OF CURB CL IS CENTER LINE'
Section 8	Std.Dwg. ML-XS1	Added to [Note 1]: 'AS PER SECTION 9.0 AND SECTION 12.0.'
Section 8	Std.Dwg. ML-XS1	Added to [Note 4]: 'FLAT OR VALLEY CURB AND GUTTER PER STANDARD DRAWING CS-4.'
Section 8	Std.Dwg. ML-XS1	Added to [Note 4]: 'MOUNTABLE'
Section 8	Std.Dwg. ML-XS1	Added to [Note 5]: 'MOUNTABLE'
Section 8	Std.Dwg. ML-XS1	Added to [Note 9]: 'AS PER SECTION 13.0'
Section 8	Std.Dwg. ML-XS1	Changed [Note 10]: 'GUIDELINES' to 'GUIDE'
Section 8	Std.Dwg. ML-XS1	Changed [Note 11]: 'TO BE IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. ML-XS1	Changed [Note 4]: 'TO BE USED IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. ML-XS1	Moved [in label]: 'SIDEWALK'
Section 8	Std.Dwg. ML-XS1	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. R-CDS	Changed [Note 2]: 'METERS' to 'METRES'

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Section 8	Std.Dwg. R-II	Removed [Note 2]: 'BOULEVARD SHALL BE MINIMUM 3.5m WHERE PARKING POCKETS ARE PRESENT TO ALLOW WIDER PARKING SPACES.'
Section 8	Std.Dwg. R-II	Removed [Note 3]: 'WHERE PARKING POCKETS ARE PRESENT DISTANCE BETWEEN FACE OF CURB AND BIKE PATH MUST BE NO LESS THAN 0.6m TO PROVIDE A DOOR ZONE.'
Section 8	Std.Dwg. R-II	Removed [Note 4]: 'BOULEVARD SHALL BE NO LESS THAN 1.5m WHERE DRIVEWAYS ARE PRESENT.'
Section 8	Std.Dwg. R-II	Changed [Note 2]: 'BIKE PATH' to 'CYCLE TRACK'
Section 8	Std.Dwg. R-II	Changed [Note 3]: 'ROADS' to 'STREET'
Section 8	Std.Dwg. R-II	Added to [Note 2]: 'WHERE VERTICAL SEPARATION IS PREFERRED, A CUSTOM MOUNTABLE MONOLITHIC CURB MAY BE PROPOSED. ALTERNATIVE TREATMENTS TO BE APPROVED BY THE CITY ENGINEER.'
Section 8	Std.Dwg. R-II	Changed [Note 3]: 'WITH TRANSVERSE SCORE LINES AT 0.3M INTERVALS' to 'AS PER SECTION 13.0'
Section 8	Std.Dwg. R-II	Added to [Note 6]: 'STREET AS PER SECTION 13.0'
Section 8	Std.Dwg. R-II	Changed [in label]: '14' to '15'
Section 8	Std.Dwg. R-II	Changed [in label]: 'BICYCLE' to 'CYCLIST'
Section 8	Std.Dwg. R-II	Changed [in label]: 'BIKE PATH' to 'CYCLE TRACK'
Section 8	Std.Dwg. R-II	Changed [in label]: 'IF SIGNAL CONTROLLED FOR NORTH-SOUTH PEDESTRIAN' to 'WITH UNIVERSALLY ACCESSIBLE'
Section 8	Std.Dwg. R-II	Changed [in label]: 'ROAD' to 'STREET'=> [Std.Dwg. R-II]
Section 8	Std.Dwg. R-II	Changed [Note 5]: 'BIKE PATH' to 'CYCLE TRACK IS'
Section 8	Std.Dwg. R-II	Changed [Note 6]: 'GUIDELINES' to 'GUIDE'
Section 8	Std.Dwg. R-II	Removed from [in label]: 'No. 14'
Section 8	Std.Dwg. R-II	Changed [Note 1]: 'ON APPROACHES TO THE INTERSECTION, THE BOULEVARD IS 3.0M WHERE BUS STOPS OR PARKING POCKETS ARE PRESENT.', 'BIKE PATH' to 'CYCLE TRACK'
Section 8	Std.Dwg. RL-XS1	Added to [in label]: 'ACRONYMS: PL IS PROPERTY LINE CL IS CENTER LINE'
Section 8	Std.Dwg. RL-XS1	Added to [Note 1]: 'AS PER SECTION 9.0 AND SECTION 12.0.'
Section 8	Std.Dwg. RL-XS1	Changed [in label]: 'SLOPE' to '1.5H:1V'
Section 8	Std.Dwg. RL-XS1	Changed [Note 6]: 'TO BE IN ACCORDANCE WITH' to 'AS PER'

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Section 8	Std.Dwg. RL-XS1	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. RL-XS1	Removed from [in label]: 'SLOPE'
Section 8	Std.Dwg. RL-XS1	Removed from [Note 5]: 'AND IN SOME CASES WILL HAVE TO BE INCREASED TO MEET MAXIMUM ALLOWABLE BENKELMAN BEAM DEFLECTION.'
Section 8	Std.Dwg. RL-XS1	Removed from [Note 7]: 'TRANSPORTATION'
Section 8	Std.Dwg. R-PI	Added to [Note 2]: 'ON APPROACHES TO THE INTERSECTION, THE', changed 'SHALL BE' to 'is', added 'AND'
Section 8	Std.Dwg. R-PI	Added to [in label]: 'WITH UNIVERSALLY ACCESSIBLE PUSH BUTTONS'
Section 8	Std.Dwg. R-PI	Added to [Note 4]: 'AS PER SECTION 13.0'
Section 8	Std.Dwg. R-PI	Changed [in label]: '14' to '15'
Section 8	Std.Dwg. R-PI	Changed [in labels]: 'BIKE PATH' to 'CYCLE TRACK'
Section 8	Std.Dwg. R-PI	Changed [Note 1]: 'PROTECTED BIKE LANES' to 'CYCLE TRACKS'
Section 8	Std.Dwg. R-PI	Added to [Note 4]: 'A CUSTOM.... PROPOSED. ALTERNATIVE TREATMENTS TO BE APPROVED BY THE CITY ENGINEER.'
Section 8	Std.Dwg. R-PI	Changed [Note 4]: 'BIKE PATH' to 'CYCLE TRACK IS'
Section 8	Std.Dwg. R-PI	Added to [Note 8]: 'ARE SCHEMATIC AND ARE'
Section 8	Std.Dwg. R-PI	Changed [Note 8]: 'GUIDELINES' to 'GUIDE'
Section 8	Std.Dwg. R-PI	Changed [Note 4->3, 5->4, 6->5, 7->6, 8->7]
Section 8	Std.Dwg. R-PI	Removed from [in label]: 'No. 14'
Section 8	Std.Dwg. R-PI	Removed from [Note 2]: 'BOULEVARD SHALL BE 3.0m WHERE BUS STOPS OR PARKING POCKETS ARE PRESENT. BOULEVARD SHALL BE NO LESS THAN 1.5m WHERE DRIVEWAYS ARE PRESENT.'
Section 8	Std.Dwg. R-PI	Removed from [Note 3]: 'WHERE PARKING POCKETS ARE PRESENT DISTANCE BETWEEN FACE OF CURB AND BIKE PATH MUST BE NO LESS THAN 0.6m TO PROVIDE A DOOR ZONE.'
Section 8	Std.Dwg. R-PRI	Added to [in label]: 'SEE NOTES.'
Section 8	Std.Dwg. R-PRI	Added to [Note 3]: 'AS PER SECTION 13.0'
Section 8	Std.Dwg. R-PRI	Added to [label]: 'MAX. 5% RAMPS TO ROADWAY' & 'BARRIER CURBS & GUTTER'
Section 8	Std.Dwg. R-PRI	Changed [in label]: '14' to '15'
Section 8	Std.Dwg. R-PRI	Changed [in labels]: 'BIKE PATH' to 'CYCLE TRACK'
Section 8	Std.Dwg. R-PRI	Changed [Note 3]: 'BIKE PATH' to 'CYCLE TRACK IS'

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Section 8	Std.Dwg. R-PRI	Added to [Note 3]: 'A CUSTOM' & changed 'UTILIZED' to 'PROPOSED', added 'ALTERNATIVE TREATMENTS TO BE APPROVED BY THE CITY ENGINEER.'
Section 8	Std.Dwg. R-PRI	Changed [Note 3]: 'SHALL BE' to 'WIDTH IS'
Section 8	Std.Dwg. R-PRI	Changed [Note 6]: 'GUIDELINES' to 'GUIDE'
Section 8	Std.Dwg. R-PRI	Removed from [in label]: 'No. 14'
Section 8	Std.Dwg. R-PRI	Removed from [in label]: 'PROPERTY LINE'
Section 8	Std.Dwg. R-PRI	Added to [Note 2]: 'ON APPROACHES TO THE INTERSECTION, THE'
Section 8	Std.Dwg. R-PRI	Added to [Note 6]: 'ARE SCHEMATIC AND ARE'
Section 8	Std.Dwg. R-PRI	Changed [Note 2]: 'SHALL BE' to 'IS'
Section 8	Std.Dwg. R-PRI	Added [Note 7]: 'MOUNTABLE APRON CONCRETE THICKNESS AND SPECIFICATIONS TO BE SUBJECT TO TRAFFIC LOADING REQUIREMENTS AND DESIGNED BY A PROFESSIONAL OF RECORD. MOUNTABLE CURB AND GUTTER AS PER STANDARD DRAWING CS-3. CONCRETE AND REINFORCEMENT AS PER SECTION 11.0. THE COLOURED AND STAMPED CONCRETE AS PER SECTION 13.0.'
Section 8	Std.Dwg. R-RLI	Added to [in label]: 'STORMWATER REVIEW MAYBE REQUESTED TO VERIFY CONVEYANCE AND COLLECTION OF RUNOFF. CATCH BASINS MAY BE REQUIRED.'
Section 8	Std.Dwg. R-RLI	Added to [in label]: 'STREET'
Section 8	Std.Dwg. R-RLI	Added to [in label]: 'STREET AS PER NOTE 3'
Section 8	Std.Dwg. R-RLI	Added to [Note 2]: 'CONCRETE REQUIREMENTS AS PER SECTION 11.0.'
Section 8	Std.Dwg. R-RLI	Added to [Note 3]: 'AS PER STANDARD DRAWING CS-2'
Section 8	Std.Dwg. R-RLI	Added to [Note 7]: 'AS PER SECTION 13.0'
Section 8	Std.Dwg. R-RLI	Changed [in label]: '14' to '15'
Section 8	Std.Dwg. R-RLI	Changed [in label]: 'BIKE PATH' to 'CYCLE TRACK'
Section 8	Std.Dwg. R-RLI	Changed [in label]: 'CATCH BASINS TO BE PROVIDED UNLESS DRAINAGE DESIGN PROVES OTHERWISE' to 'STORMWATER REVIEW MAYBE REQUESTED TO VERIFY CONVEYANCE AND COLLECTION OF RUNOFF. CATCH BASINS MAY BE REQUIRED.'
Section 8	Std.Dwg. R-RLI	Changed [in label]: 'ROAD' to 'STREET'
Section 8	Std.Dwg. R-RLI	Changed [Note 1]: 'BIKE PATH' to 'CYCLE TRACK IS'
Section 8	Std.Dwg. R-RLI	Changed [Note 11]: 'GUIDELINES' to 'GUIDE'
Section 8	Std.Dwg. R-RLI	Changed [Note 4]: 'BIKE PATH' to 'CYCLE TRACK IS'
Section 8	Std.Dwg. R-RLI	Changed [Note 4]: 'CURB RAMP' to 'LETDOWN'

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Section 8	Std.Dwg. R-RLI	Changed [Note 6]: 'BIKE PATH' to 'CYCLE TRACK IS'
Section 8	Std.Dwg. R-RLI	Changed [Note 7]: 'BIKE PATH' to 'CYCLE TRACK IS'
Section 8	Std.Dwg. R-RLI	Changed [Note 7]: 'UTILIZED' to 'PROPOSED', added 'ALTERNATIVE TREATMENTS TO BE APPROVED BY THE CITY ENGINEER.'
Section 8	Std.Dwg. R-RLI	Removed from [in label]: 'No. 14'
Section 8	Std.Dwg. R-RLI	Removed from [in label]: 'OR FOOTINGS AS PER NOTE 4 ON THE CURB DRAWINGS.'
Section 8	Std.Dwg. R-TT	Added to [Note 3]: 'METRES'
Section 8	Std.Dwg. R-TT	Changed [Note 1]: 'ROAD' to 'STREET'
Section 8	Std.Dwg. R-TT	Changed [Note 3]: 'METERS' to 'METRES'
Section 8	Std.Dwg. UA-XS1	Added to [in label]: 'ACRONYMS: PL IS PROPERTY LINE FOC IS FACE OF CURB CL IS CENTER LINE'
Section 8	Std.Dwg. UA-XS1	Added to [Note 1]: 'AS PER SECTION 9.0 AND SECTION 12.0.'
Section 8	Std.Dwg. UA-XS1	Added to [Note 4]: 'MOUNTABLE CURB AND GUTTER AS PER STANDARD DRAWING CS-3.'
Section 8	Std.Dwg. UA-XS1	Added to [Note 8]: 'AS PER SECTION 13.0'
Section 8	Std.Dwg. UA-XS1	Added to [Note 9]: 'DRIVEWAY'
Section 8	Std.Dwg. UA-XS1	Changed [in label]: 'M' to 'm'
Section 8	Std.Dwg. UA-XS1	Changed [in labels]: 'M' to 'm'
Section 8	Std.Dwg. UA-XS1	Changed [Note 10]: 'GUIDELINES' to 'GUIDE'
Section 8	Std.Dwg. UA-XS1	Changed [Note 11]: 'TO BE IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. UA-XS1	Changed [Note 12]: 'TO BE IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. UA-XS1	Changed [Note 4]: 'TO BE USED IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. UA-XS1	Changed [Note 5]: 'TO BE LANDSCAPED WHERE POSSIBLE AND IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. UA-XS1	Changed [Note 8]: 'BIKE PATH SHALL BE' to 'CYCLE TRACK IS'
Section 8	Std.Dwg. UA-XS1	Changed [Note 9]: 'ROAD' to 'STREET'
Section 8	Std.Dwg. UA-XS1	Moved [in label]: 'SIDEWALK'
Section 8	Std.Dwg. UA-XS1	Removed from [in label]: 'BAND'
Section 8	Std.Dwg. UA-XS1	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. UA-XS1	Removed from [Note 5]: 'TO BE LANDSCAPED WHERE POSSIBLE AND IN ACCORDANCE WITH'

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Section 8	Std.Dwg. UA-XS1	Removed from [Note 8]: 'BIKE PATH SHALL BE'
Section 8	Std.Dwg. UC-XS1	Added to [in label]: 'ACRONYMS: PL IS PROPERTY LINE FOC IS FACE OF CURB CL IS CENTER LINE'
Section 8	Std.Dwg. UC-XS1	Added to [Note 1]: 'AS PER SECTION 9.0 AND SECTION 12.0.'
Section 8	Std.Dwg. UC-XS1	Added to [Note 10]: 'DRIVEWAY'
Section 8	Std.Dwg. UC-XS1	Added to [Note 8]: 'AS PER SECTION 13.0'
Section 8	Std.Dwg. UC-XS1	Added to [Note 9]: 'AS PER SECTION 13.0'
Section 8	Std.Dwg. UC-XS1	Changed [Note 10]: 'ROAD' to 'STREET'
Section 8	Std.Dwg. UC-XS1	Changed [Note 11]: 'GUIDELINES' to 'GUIDE'
Section 8	Std.Dwg. UC-XS1	Changed [Note 12]: 'TO BE IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. UC-XS1	Changed [Note 13]: 'TO BE IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. UC-XS1	Changed [Note 4]: 'TO BE USED IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. UC-XS1	Changed [Note 5]: 'TO BE LANDSCAPED WHERE POSSIBLE AND IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. UC-XS1	Changed [Note 8]: 'BIKE PATH SHALL BE' to 'CYCLE TRACK IS'
Section 8	Std.Dwg. UC-XS1	Moved [in label]: 'SIDEWALK'
Section 8	Std.Dwg. UC-XS1	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. UC-XS1	Removed from [Note 5]: 'TO BE LANDSCAPED WHERE POSSIBLE AND IN ACCORDANCE WITH'
Section 8	Std.Dwg. UC-XS2	Added to [in label]: 'ACRONYMS: PL IS PROPERTY LINE FOC IS FACE OF CURB CL IS CENTER LINE'
Section 8	Std.Dwg. UC-XS2	Added to [Note 1]: 'AS PER SECTION 9.0 AND SECTION 12.0.'
Section 8	Std.Dwg. UC-XS2	Added to [Note 10]: 'DRIVEWAY'
Section 8	Std.Dwg. UC-XS2	Added to [Note 5]: 'MOUNTABLE'
Section 8	Std.Dwg. UC-XS2	Added to [Note 8]: 'AS PER SECTION 13.0'
Section 8	Std.Dwg. UC-XS2	Added to [Note 9]: 'AS PER SECTION 13.0'
Section 8	Std.Dwg. UC-XS2	Changed [Note 10]: 'ROAD' to 'STREET' & added 'DRIVEWAY'
Section 8	Std.Dwg. UC-XS2	Changed [Note 11]: 'GUIDELINES' to 'GUIDE'
Section 8	Std.Dwg. UC-XS2	Changed [Note 12]: 'TO BE IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. UC-XS2	Changed [Note 13]: 'TO BE IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. UC-XS2	Changed [Note 4]: 'TO BE USED IN ACCORDANCE WITH' to 'AS PER'

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Section 8	Std.Dwg. UC-XS2	Changed [Note 8]: 'BIKE PATH SHALL BE' to 'CYCLE TRACK IS'
Section 8	Std.Dwg. UC-XS2	Changed [Note 8]: 'WITH TRANSVERSE SCORE LINES AT 0.3M INTERVALS' to 'AS PER SECTION 13.0.'
Section 8	Std.Dwg. UC-XS2	Added to [Note 8]: 'A CUSTOM' & changed 'UTILIZED' to 'PROPOSED'
Section 8	Std.Dwg. UC-XS2	Added to [Note 4]: FLAT AND VALLEY CURB AND GUTTER PER STANDARD DRAWING CS-4.'
Section 8	Std.Dwg. UC-XS2	Moved [in label]: 'SIDEWALK'
Section 8	Std.Dwg. UC-XS2	Removed from [in label]: 'MAY 2020'
Section 8	Std.Dwg. UC-XS2	Removed from [Note 6]: 'AND IN SOME CASES WILL HAVE TO BE INCREASED TO MEET MAXIMUM ALLOWABLE BENKELMAN BEAM DEFLECTION.'
Section 8	Std.Dwg. UL-XS1	Added to [Note 1]: 'AS PER SECTION 9.0 AND SECTION 12.0.'
Section 8	Std.Dwg. UL-XS1	Added to [Note 4]: 'MOUNTABLE CURB AND GUTTER AS PER STANDARD DRAWING CS-3. FLAT AND VALLEY CURB AND GUTTER PER STANDARD DRAWING CS-4.'
Section 8	Std.Dwg. UL-XS1	Added to [Note 5]: 'MOUNTABLE'
Section 8	Std.Dwg. UL-XS1	Changed [in labels]: 'M' to 'm'
Section 8	Std.Dwg. UL-XS1	Changed [Note 10]: 'TO BE IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. UL-XS1	Changed [Note 11]: 'TO BE IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. UL-XS1	Changed [Note 4]: 'TO BE USED IN ACCORDANCE WITH' to 'AS PER'
Section 8	Std.Dwg. UL-XS1	Changed [Note 9]: 'GUIDELINES' to 'GUIDE'
Section 8	Std.Dwg. UL-XS1	Moved [in label]: 'SIDEWALK'
Section 8	Std.Dwg. UL-XS1	PL IS PROPERTY LINE FOC IS FACE OF CURB CL IS CENTER LINE'
Section 8	Std.Dwg. UL-XS1	Removed from [in label]: 'MAY 2020'
Section 9	9.0_TOC	Added: '9.35 Fish Habitat Gravel (REVISE? TBD 2025 Moved from Section 4.0)
Section 9	9.0_TOC	Removed: 'REVISED MAY 2020' x3

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 9	9.02 .1	Changed: 'The minimum standards shall be as shown Pavement and road structure design shall be based on Benkelman Beam ...' to 'The minimum standards for roadway pavement thickness for street classifications are shown in the table. Verification of existing road structure requires core sampling to confirm that the asphalt, base, and subbase layers each meet the minimum thickness in the standard. Nondestructive testing may be used to assess existing pavement and road structure through Benkelman Beam testing as outlined in the most current edition of the "Pavement Design and Management Guide", distributed by the Transportation Association of Canada. Test results are required'
Section 9	9.02 .1_Table	Changed: '125 mm' to 100 mm ' in the Hot plant-mix asphalt pavement compacted row for new industrial column
Sectoin 9	9.02 .1_Table	New Column: 'Cycle Tracks**'
Sectoin 9	9.02 .1_Table	New Column: 'Industrial'
Sectoin 9	9.02 .1_Table	Headers Changed: 'Bike Path' to 'Multi-Use Paths' and 'Arterial and all Industrial' to 'Arterial'
Sectoin 9	9.02 .1_Table	Changed: '75mm' to '75 mm' and '20mm' to 20 mm'
Sectoin 9	9.02 .1_Table	Changed: under Multi-Use Paths, '100 mm' to '150 mm' and '50' to '60 - 75 mm**'
Section 9	9.02 .2	Changed: 'City of Nanaimo' to 'City'
Section 9	9.02 .2	Changed: 'Where works are to be constructed in and/or adjacent to existing streets and existing pavements do not meet the maximum Benkelman Beam deflection or is found to have road structure that does not meet current standards, the City of Nanaimo' to 'Where works are to be constructed in and/or adjacent to existing streets and existing roadways do not meet the minimum pavement requirements, the City'
Section 9	9.21 .2	Changed: 'Engineer' to 'Professional of Record'
Section 9	9.21 .3 (c)	Changed: 'm' to 'metres'
Section 9	9.21 .3 (d)	Removed: 'Benkelman beam tests to be done on the prepared base only.'
Section 9	9.21 .3 (e) redesignated to (d)	Redesignated
Section 9	9.21 .3 (f) redesignated to (e)	Changed: 'Engineer' to 'Professional of Record'
Section 9	9.21 .4	Changed: 'Section 9.49 – Proof Rolling' to 'clause 9.21 .4 – Proof Rolling '
Section 9	9.21 .4 (a)	Changed: 'Engineer' to 'Professional of Record'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 9	9.21 .4 (a)	Removed: 'Benkelman Beam testing may be required in conjunction with proof rolling.'
Section 9	9.21 .4 (c)	Changed: '500mm' to '500 mm'
Section 9	9.21 .5	Removed: 'Benkelman Beam Testing:'
Section 9	9.21 .5 (a)	Removed: 'Prior to paving, the finished base course shall be checked by the Engineer for deflections utilizing a Benkelman Beam or other approved testing device.'
Section 9	9.21 .5 (b)	Removed: 'If the calculated deflections are in excess of the maximum Benkelman Beam deflections, as outlined in Section 9.02 – Minimum Base and Pavement Strengths [→], measures shall be taken to strengthen the road base and pavement structure prior to paving. Paving shall not proceed until the test results meet the minimum requirements.'
Section 9	9.23 .1	Changed: 'Engineer' to 'Professional of Record'
Section 9	9.24 .1	Changed: 'Engineer' to 'Professional of Record'
Section 9	9.25	Removed: REVISED MAY 2020
Section 9	9.25 .1	Changed: 'Engineer' to 'Professional of Record'
Section 9	9.26	Removed: REVISED MAY 2020
Section 9	9.26 .1	Changed: 'Engineer' to 'Professional of Record'
Section 9	9.26 .1	Changed: "excavating" to 'excavation'
Section 9	9.27	Removed: REVISED MAY 2020
Section 9	9.28 .1	Changed: 'Engineer' to 'Professional of Record'
Section 9	9.29	Removed: REVISED MAY 2020
Section 9	9.29 .1	Changed: 'Granular Material may be used only with the express written permission of the Engineer, and provided that it can be compacted to the requirement stated in Section 9.21 and provided that the materials also meet the following requirements:' to ' Granular Material may be used provided it meets the compaction requirement stated in Section 9.21 [→] and the following requirements: '
Section 9	9.29 .1 (a)	Changed: 'ASTM C136' to 'ASTM C136/C136M'
Section 9	9.29 .1 (b)	Changed: 'Tbe' to 'To be'
Section 9	9.29 .1 (f)	Changed: 'that provides the required compaction' to '(ASTM D1557), and verified by laboratory testing in accordance with ASTM D2216'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 9	9.29 .2	Removed: 'Prior to any granular material being approved, the grain size and in-situ moisture content must be verified by washed sieve and moisture content test as per ASTM C117, ASTM C136, and ASTM D2216.'
Section 9	9.29 .2 was .3	Changed: 'When in the opinion of the Engineer and City Engineer, native granular material is unsuitable for reuse, it shall be removed from the construction site and approved granular material shall be used.' to 'Excavated material used as backfill, is permitted under the following conditions:'
Section 9	9.29 .2 (a) new	Added: 'In untravelled areas, as directed by the Professional of Record.'
Section 9	9.29 .2 (b) new	Added: 'In travelled areas, when it meets the performance requirements in Section 9.29.1 and the testing requirements in Section 9.21. The Professional of Record must submit the test results to the City Engineer for approval. If approved for use, the material must be stockpiled and tested in accordance with Section 9.21.'
Section 9	9.29 4	Added: 'The conversion from tonnes to cubic metres compacted will be 2.43 tonnes/cubic metre.'
Section 9	9.31 .2	Changed: 'to the Engineer for approval his proposed base course gradation for the project' to 'proposed base course gradation for the works to be approved by City Engineer'
Section 9	9.32	Removed: REVISED MAY 2020
Section 9	9.32 .1	Changed: 'Engineer' to 'Professional of Record'
Section 9	9.33	Removed: REVISED MAY 2020
Section 9	9.34	Removed: REVISED MAY 2020
Section 9	9.35 (moved from 4.26)	Added: '9.35 Fish Habitat Gravel (REVISE? TBD 2025 Moved from Section 4.0)
Section 9	9.35 .1 (moved from 4.26 .1)	Moved: 'Gravel shall be composed of inert, non-fractured smooth washed aggregate.'
Section 9	9.35 .2 (moved from 4.26 .2)	Moved: 'Gradation:'
Section 9	9.40 .1	Changed: 'jobsite' to 'Works'
Section 9	9.40 .1	Changed: 'subject to the approval of the Engineer' to 'to be approved by the City Engineer'
Section 9	9.41 .1	Changed: 'Engineer' to 'Professional of Record'
Section 9	9.42 .1	Changed: 'by the Engineer' to 'in the Plan'
Section 9	9.42 .1	Changed: 'Engineer' to 'Professional of Record'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 9	9.43 .5	Changed: 'Engineer' to 'Professional of Record'
Section 9	9.44 .1	Changed: 'ASTM 1557' to '(ASTM D1557)'
Section 9	9.44 .1	Changed: 'Engineer' to 'Professional of Record'
Section 9	9.44 .2	Changed: 'Engineer' to 'City Engineer'
Section 9	9.45 .4	Changed: 'Engineer' to 'Professional of Record' X2
Section 9	9.47 .2	Changed: 'Engineer' to 'Professional of Record'
Section 9	9.47 .3	Changed: 'Engineer' to 'Professional of Record'
Section 9	9.47 .3	Changed: 'Section 9.49' to ' clause 9.21 .4 – Proof Rolling '
Sectoin 9	9.47 .3	Removed: 'Section 9.50 - Benkelman Beam Testing.'
Section 9	9.49 .1	Changed: 'Engineer' to 'Professional of Record'
Section 9	9.50 .1	Changed: 'Engineer' to 'Professional of Record'
Section 9	9.50 .1	Changed: 'top soil' to 'topsoil'
Section 10	10.0_TOC	Added: 'E-10.2'
Section 10	10.0_TOC	Added: 'E-6.7 '
Section 10	10.0_TOC	Added: 'E-8.2'
Section 10	10.0_TOC	Added: 'Guardian Wave Pushbutton with Integral Sign'
Section 10	10.0_TOC	Added: 'Intersection Traffic Detection Camera '
Section 10	10.0_TOC	Added: 'Typical 30 A Street Lighting Wiring Diagram (For use in Service Base)'
Section 10	10.0_TOC	Changed: 'Signal Pole (Highways Type 1 Shaft)' to 'Cross Walk Flasher Post'
Section 10	10.0_TOC	Changed: 'Signal Pole (Highways Type 1 Shaft)' to 'Speed Reader Sign On Post'
Section 10	10.0_TOC	Changed: 'single family residential' to 'single residential'
Section 10	10.0_TOC	Changed: 'Type F2 & L2 Trapezoidal Shape Concrete Bases' to 'Type S2 & L2 Trapezoidal Shape Concrete Bases' [E-1.7]
Section 10	10.0_TOC	Changed: 'Type F2 & L2 Trapezoidal Shape Concrete Bases' to 'Type S2 & L2 Trapezoidal Shape Concrete Bases' [E-1.8]
Section 10	10.0_TOC	Redesignated
Section 10	10.0_TOC	Removed Std. Dwg. E-1.5
Section 10	10.0_TOC	Removed Std. Dwg. E-1.6
Section 10	10.0_TOC	Removed Std. Dwg. E-2.1
Section 10	10.0_TOC	Removed Std. Dwg. E-5.5
Section 10	10.0_TOC	Removed Std. Dwg. E-5.6

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 10	10.0_TOC	Removed: 'E-5.5'
Section 10	10.0_TOC	Removed: 'E-5.6'
Section 10	10.0_TOC	Removed: 'E-6.3'
Section 10	10.0_TOC	Changed: 'Overhead Signal Head Mounting with Spring Cushion Mid Hanger' to '– REMOVED –'
Section 10	10.0_TOC	Changed: 'Signal Pole (Highways Type 3 Shaft)' to '– REMOVED –' [E-5.6]
Section 10	10.0_TOC	Changed: 'Type M (Nema Cabinet) Concrete Controller Bas' to '– REMOVED –'
Section 10	10.01 .1 (b)	Changed: 'road' to 'street'
Section 10	10.01 .1 (f)	Changed: 'road' to 'roadway'
Section 10	10.01 .5 (a)	Changed: 'road' to 'roadway'
Section 10	10.01 .5 (a)	Changed: 'width' to 'roadway width'
Section 10	10.01 .5 (b)	Changed: 'road' to 'street'
Section 10	10.01 .5 (e)	Changed: 'Ministry of Transportation and Infrastructure' to 'Ministry of Transportation and Transit'
Section 10	10.01 .5 (e) Table	Changed: 'road' to 'street'
Section 10	10.01 .6 (c)	Added: 'LED luminaires shall have a colour temperature of 3 000 K or 4 000 K. Refer to Table 3 to determine which colour temperature is required for specific street classifications. Note the following:'
Section 10	10.01 .6 (c) (i)	Added: 'Intersections between two roadways with differing colour temperatures shall be lit with the higher of the colour temperatures.'
Section 10	10.01 .6 (c) (ii)	Added: 'Sidewalk Bike Path Multi-Use Path and Walkway colour temperature shall match corresponding roadway colour temperature.'
Section 10	10.01 .6 (c) (iii)	Added: 'Colour temperature for Local roadway shall match surrounding fixtures where possible but default to 4 000 K when no existing LED fixtures are present.'
Section 10	10.01 .6 (d)	Added: 'The City may overrule this prescribed colour temperature selection procedure on a case-by-case basis based on specific neighborhood requirements.'
Section 10	10.01 .6 (f) Table 3_A1	Changed: 'road' to 'street'
Section 10	10.01 .6 (f) Table 3_Column2	Added: column to Table 3 for Colour Temperature
Section 10	10.01 .6 (f) Table 3_Column3	Added: 'With the exception of 4 roadway lane roadways 11.0 m poles shall be avoided where possible and only be used with approval from the City Engineer.'
Section 10	10.01 .6 (f) Table 3_Column4	Changed: Lumen ranges in 9.0 m High Davit Pole with Flat Glass Luminaire

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 10	10.01 .6 (f) Table 3_Column5	Changed: Lumen ranges in 7.5 m High (or Lower) Davit Pole (**) with Flat Glass Luminaire
Section 10	10.01 .6 (f) Table 3_Column6	Changed Lumen ranges in 4.5 m High Post Top Pole with Post Top Luminaire
Section 10	10.02 .3	Changed: 'Ministry of Transportation and Infrastructure' to 'Ministry of Transportation and Transit'
Section 10	10.03 .4	Added: ', the Professional of Record is to'
Section 10	10.03 .4	Changed: 'road' to 'roadway'
Section 10	10.03 .4	Changed: 'Where conduit(s) cross an existing road, they shall be installed by horizontal directional drilling to avoid cutting pavement and interrupting traffic.' to 'Where conduit(s) cross an existing roadway, horizontal directional drilling is the preferred method to avoid cutting pavement and interrupting traffic.'
Section 10	10.03 .4 (remove)	Remove clause ': 'Where conduit(s) cross an existing road, they shall be installed by horizontal directional drilling to avoid cutting pavement and interrupting traffic. Prior to specifying drilling confirm soil condition will accommodate drilling.'
Section 10	10.06 .3	Added: 'Standard Drawing No. E-10.2 and '
Section 10	10.06 .3	Changed: '60A – 2P breaker' to '2P breaker (30 A for Local roadways 60 A for all other roadways)'
Section 10	10.06 .4	Changed: '100 A – 2P main breaker' to 'metered 100 A – 2P main breaker'
Section 10	10.07 .1	Changed: 'Civil Engineer' to 'Professional of Record' x2
Section 10	10.07 .2	Changed: 'Engineer' to 'Professional of Record'
Section 10	10.20 .1	Changed: 'Ministry of Transportation and Infrastructure' to 'Ministry of Transportation and Transit'
Section 10	10.21 .3	Changed: 'Engineer' to 'City Engineer'
Section 10	10.23 .1	Changed: 'Ministry of Transportation and Infrastructure' to 'Ministry of Transportation and Transit'
Section 10	10.24 .6	Changed: 'Ministry of Transportation and Infrastructure' to 'Ministry of Transportation and Transit'
Section 10	10.25 .1	Changed: 'Ministry of Transportation and Infrastructure' to 'Ministry of Transportation and Transit'
Section 10	10.25 .2	Changed: 'Ministry of Transportation and Infrastructure' to 'Ministry of Transportation and Transit'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 10	10.25 .3	Changed: 'Ministry of Transportation and Infrastructure' to 'Ministry of Transportation and Transit'
Section 10	10.28 .1	Changed: 'Ministry of Transportation and Infrastructure' to 'Ministry of Transportation and Transit'
Section 10	10.28 .2 Table	Added a Row for Cyclist Heads
Section 10	10.29 .1	Changed: 'Ministry of Transportation and Infrastructure' to 'Ministry of Transportation and Transit'
Section 10	10.30	Changed: '-NOT USED' to 'TRAFFIC VIDEO DETECTION SYSTEM'
Section 10	10.30 .1 (new)	Added: Traffic detection cameras and associated electronics in the controller cabinet may be used for traffic detection at intersections. The City shall decide if traffic video detection shall be used for a given intersection and specify which specific system shall be used.
Section 10	10.32 .1	Changed: 'Ministry of Transportation and Infrastructure' to 'Ministry of Transportation and Transit'
Section 10	10.33 .1	Changed: 'split bolt connectors sized to suit conductor size. Aluminum to copper connections shall use' to 'spear-type (aluminum housing with hex lugs) with pre-filled'
Section 10	10.37 .4	Removed: 'Pushbutton shall be actuated via a magnetic proximity switch. A 2200 mm length of purple No. 14 RW90 stranded copper conductor shall be supplied soldered to each switch terminal. Contacts shall be hermetically sealed. '
Section 10	10.37 .5 redesignated from 10.37 .5	Redesignated number
Section 10	10.40 .1 (a)	Added: 30 A – 120/240 V street lighting Local roadways only.
Section 10	10.40 .1 (b) redesignated from 10.40 .1 (a)	Added: all other roadways.
Section 10	10.40 .1 (b) redesignated from 10.40 .1 (a)	Redesignated number
Section 10	10.40 .1 (c) redesignated from 10.40 .1 (b)	Redesignated number
Section 10	10.41 .1	Changed: 'Ministry of Transportation and Infrastructure' to 'Ministry of Transportation and Transit'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 10	10.42 .1	Changed: 'Ministry of Transportation and Infrastructure' to 'Ministry of Transportation and Transit'
Section 10	10.47 .7	Changed: 'The traffic controller manufacturer shall enter all signal timings. In addition the manufacturer shall have technician on site to check all field wiring connections and put the controller into operation during the signal start-up.' To 'The City will supply the Traffic Signal Cabinet Controller and other related equipment unless specified in plans. The Traffic Signal Controller will be programmed and tested by the City prior to installation at the intersection. '
Section 10	10.62 .1	Changed: 'Ministry of Natural Gas Development' to 'Ministry of Housing and Municipal Affairs'
Section 10	10.62 .2 (b)	Changed: 'WorkSafeBC Industrial Health and Safety Regulations, Section 34.16(3).' to 'WorkSafeBC Occupational Health and Safety Regulations.'
Section 10	10.62 .3 (new)	Added: ' All work on BC Hydro infrastructure will be coordinated with BC Hydro and the City and paid for in full by the Applicant upon invoicing by the City.'
Section 10	10.63 .1	Changed: 'Engineer' to 'Professional of Record'
Section 10	10.65 .3	Changed: 'Engineer' to 'Professional of Record'
Section 10	10.68 .3	Added: 'Confirm soil conditions with the Professional of Record, in addition to completing all required safety and utility locates.'
Section 10	10.68 .3	Changed: 'conduits to be installed' to 'install conduits'
Section 10	10.68 .3	Changed: 'Where indicated on the Contract Drawings conduits to be installed through a hole drilled under the pavement. Drilling equipment to be fully directional.' to 'Where shown on the contract drawings, install conduits under the pavement to elevations specified using a suitable trenchless technology.'
Section 10	10.70 .11	Changed: 'Prior to the installation of luminaires submit authorization form to the City to coordinate the installation of locking handhole covers. Once the streetlighting installation is complete provide the City with 72 hours notice for the City to install the locking handhole covers.' to 'Installation of the locking handhole covers is the contractor and developer's responsibility.'
Section 10	10.70 .3	Changed: 'Engineer' to 'Professional of Record'
Section 10	10.70 .8	Changed: ' satisfaction of the Engineer' to 'acceptance by the City Engineer'
Section 10	10.71 .3	Changed: 'Engineer' to 'City Engineer'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 10	10.71 .4	Changed: 'with burlap sacking' to 'or turn the heads inward so they are not visible to traffic '
Section 10	10.73 .3	Removed: 'with burlap sacking'
Section 10	10.74 .4	Changed: 'road' to 'roadway'
Section 10	10.75 .1	Changed: 'Ministry of Transportation and Infrastructure' to 'Ministry of Transportation and Transit'
Section 10	10.75 .2	Name change: 'Ministry of Transportation and Infrastructure' to 'Ministry of Transportation and Transit'
Section 10	10.77 .1	Changed: 'Service panels for intersections may be mounted on the side of the cabinet.' to 'Service panels for intersections will be mounting on a nearby luminaire pole or on a pole dedicated for the service panel.'
Section 10	10.78 .10	Changed: 'Label individual conductors' to 'Label conductor groupings'
Section 10	10.78 .10 (d)	Changed: '2R 2Y 2G 2N (where '2' indicates the Signal Phase and 'R' indicates Red 'Y' indicates Yellow 'G' indicates Green and 'N' indicates Neutral).' to 'Phase X or Ø X (where “X” indicated the phase number'
Section 10	10.78 .10 (e)	Changed: '2P2W P2DW P2N (where 'P2' indications the Pedestrian Phase 'W' indicates Walk 'DW' indicates Don't Walk and 'N' indicates Neutral).' to 'P X (where “X” indicates the phase number)'
Section 10	10.78 .10 (f)	Changed: 'loop' to 'cable'
Section 10	10.78 .12	Changed: 'Engineer' to 'City Engineer'
Section 10	10.78 .12	Changed: ' satisfaction of the Engineer' to 'acceptance by the City Engineer'
Section 10	10.81	Changed: 'Detector Loops' to 'Detection Loops'
Section 10	10.81 .1	Changed: 'detector' to 'detection'
Section 10	10.81 .2 (new)	Added: 'Video Detection shall be installed in accordance with Standard Drawing No. E-6.7'
Section 10	10.85 .1	Changed: 'Contractor' to 'City designated staff'
Section 10	10.85 .1	Removed: ' Any adjustments required to make the system operate in the manner intended by the Engineer shall be made by the Contractor.'
Section 10	10.85 .2	Changed: 'City of Nanaimo' to 'City Engineer'
Section 10	10.85 .2	Changed: 'Engineer' to 'Professional of Record'
Section 10	10.85 .3 (a)	Changed: 'City of Nanaimo' to 'City Engineer'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 10	10.85 .3 (a)	Changed: 'Engineer' to 'Professional of Record'
Section 10	10.85 .3 (b)	Changed: ' to the satisfaction of' to 'corrected and accepted by'
Section 10	10.85 .3 (b)	Changed: 'City of Nanaimo' to 'City Engineer'
Section 10	10.85 .3 (b)	Changed: 'Engineer' to 'Professional of Record'
Section 10	10.85 .3 (f)	Changed: 'City of Nanaimo' to 'City Engineer'
Section 10	10.85 .3 (f)	Changed: 'Engineer' to 'Professional of Record'
Section 10	Std.Dwg. E-1.1	Changed [in footer]: 'May 2020 Edition' to 'Edition 15'
Section 10	Std.Dwg. E-1.1	Changed [in label]: 'TYPE 6 AND 7 SIGNAL POLES' to 'TYPE S POLE'
Section 10	Std.Dwg. E-1.1	Removed to [in label]: 'E-1.5 & E-1.6'
Section 10	Std.Dwg. E-1.1	Removed to [in label]: 'E2'
Section 10	Std.Dwg. E-1.1	Removed to [in label]: 'TYPE 1 AND 3 SIGNAL POLES'
Section 10	Std.Dwg. E-1.1	Removed to [in TB Rev]: 'May 2020'
Section 10	Std.Dwg. E-1.1	Changed 'F2' to 'S2' in table under type
Section 10	Std.Dwg. E-1.5	REMOVED
Section 10	Std.Dwg. E-1.6	REMOVED
Section 10	Std.Dwg. E-1.7	Changed [in footer]: 'May 2020 Edition' to 'Edition 15'
Section 10	Std.Dwg. E-1.7	Changed [in label]: '4-25 (1") Ø x 1220 (48") GALVANIZED ANCHOR BOLTS PRE-ASSEMBLED IN A CAGE' to '4-25 (1") Ø x 1220 (48") GALVANIZED GRADE 150 DYWIDAG PRE-ASSEMBLED IN A CAGE'
Section 10	Std.Dwg. E-1.7	Changed [in label]: 'F2' to 'S2'
Section 10	Std.Dwg. E-1.7	Changed [in label]: 'TYPE 6 AND 7 SHAFTS' to 'TYPE S POLE'
Section 10	Std.Dwg. E-1.7	Changed [in Title]: 'F2' to 'S2'
Section 10	Std.Dwg. E-1.7	Removed to [in TB Rev]: 'JAN 1998'
Section 10	Std.Dwg. E-1.8	Changed [in footer]: 'May 2020 Edition' to 'Edition 15'
Section 10	Std.Dwg. E-1.8	Changed [in Title]: 'F2' to 'S2'
Section 10	Std.Dwg. E-1.8	Removed to [in TB Rev]: 'NOV 2016'
Section 10	Std.Dwg. E-2.1	REMOVED
Section 10	Std.Dwg. E-3.1	Changed [in footer]: 'May 2020 Edition' to 'Edition 15'
Section 10	Std.Dwg. E-3.1	Changed [in label]: 'STEEL' to 'GALVANIZED STEEL AND BE SECURED WITH STAINLESS STEEL TAMPERPROOF BOLTS.'
Section 10	Std.Dwg. E-3.1	Removed to [in TB Rev]: 'May 2020'

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Section 10	Std.Dwg. E-3.2	Added to [in label]: 'TAMPERPROOF'
Section 10	Std.Dwg. E-3.2	Changed [in footer]: 'May 2020 Edition' to 'Edition 15'
Section 10	Std.Dwg. E-3.2	Removed to [in TB Rev]: 'JAN 1998'
Section 10	Std.Dwg. E-3.3	Added to [in label]: 'TAMPER PROOF'
Section 10	Std.Dwg. E-3.3	Changed [in footer]: 'May 2020 Edition' to 'Edition 15'
Section 10	Std.Dwg. E-3.3	Removed to [in TB Rev]: 'JAN 1998'
Section 10	Std.Dwg. E-5.3 Replacement	Added to [in label]: 'Edition 15'
Section 10	Std.Dwg. E-5.3 Replacement	Added to [in label]: 'Engineering Standards & Specifications '
Section 10	Std.Dwg. E-5.4 Replacement	Added to [in label]: 'Edition 15'
Section 10	Std.Dwg. E-5.4 Replacement	Added to [in label]: 'Engineering Standards & Specifications '
Section 10	Std.Dwg. E-5-5	REMOVED
Section 10	Std.Dwg. E-5-6	REMOVED
Section 10	Std.Dwg. E-5.8	Changed [in footer]: 'May 2020 Edition' to 'Edition 15'
Section 10	Std.Dwg. E-5.8	Changed to [in label]: 'INSTALL ANTI-SEIZE LUBRICANT ON BOLT THREADS' to 'USE STAINLESS STEEL TAMPERPROOF BOLTS. INSTALL ANTI-SEIZE LUBRICANT ON BOLT THREADS'
Section 10	Std.Dwg. E-5.8	Removed to [in TB Rev]: 'JAN 1998'
Section 10	Std.Dwg. E-5.13	Added to [in label]: 'USE STAINLESS STEEL TAMPERPROOF BOLTS. INSTALL ANTI-SEIZE LUBRICANT ON BOLT THREADS'
Section 10	Std.Dwg. E-5.13	Changed [in footer]: 'May 2020 Edition' to 'Edition 15'
Section 10	Std.Dwg. E-5.13	Removed to [in TB Rev]: 'JAN 1998'
Section 10	Std.Dwg. E-5.15	Added to [in label]: 'USE STAINLESS STEEL TAMPERPROOF BOLTS. INSTALL ANTI-SEIZE LUBRICANT ON BOLT THREADS'
Section 10	Std.Dwg. E-5.15	Changed [in footer]: 'May 2020 Edition' to 'Edition 15'
Section 10	Std.Dwg. E-5.15	Instructions: 'Should show a Type B cylindrical base'
Section 10	Std.Dwg. E-5.15	Removed to [in TB Rev]: 'JAN 1998'
Section 10	Std.Dwg. E-5.17	Added to [in label]: '©'
Section 10	Std.Dwg. E-5.17	Changed [in footer]: 'May 2020 Edition' to 'Edition 15'
Section 10	Std.Dwg. E-5.17	Changed to [in label]: 'TAMPER PROOF HEAVY DUTY BOLTS' to 'STAINLESS STEEL TAMPER PROOF BOLT. INSTALL ANTI-SEIZE LUBRICANT ON BOLT THREADS.'
Section 10	Std.Dwg. E-5.17	Removed to [in TB Rev]: 'May 2020'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 10	Std.Dwg. E-5.17	Added 'Should show a Type B cylindrical base' with a bubble around the diagram
Section 10	Std.Dwg. E-5.21	Changed [in footer]: 'May 2020 Edition' to 'Edition 15'
Section 10	Std.Dwg. E-5.21	Removed to [in TB Rev]: 'NOV 2019'
Section 10	Std.Dwg. E-5.21	Removed to [in Title]: 'FAMILY'
Section 10	Std.Dwg. E-6.1	Added to [in label]: 'BICYCLE SIGNAL'
Section 10	Std.Dwg. E-6.1	Changed [in footer]: 'May 2020 Edition' to 'Edition 15'
Section 10	Std.Dwg. E-6.1	Removed to [in TB Rev]: 'JAN 1998'
Section 10	Std.Dwg. E-6.2	REMOVED: 'Replace with MoTi drawing SP635-2.3.6 from 2020 Standard Specifications for Highway Construction'
Section 10	Std.Dwg. E-6.3	REMOVED
Section 10	Std.Dwg. E-6.7 New	Added to [in label]: 'Edition 15'
Section 10	Std.Dwg. E-6.7 New	Added to [in label]: 'Engineering Standards & Specifications '
Section 10	Std.Dwg. E-7.1 (replaced)	Changed [in drawing]: change detail to show audible installed on the top of the signal head
Section 10	Std.Dwg. E-7.1 (replaced)	Changed [in footer]: 'May 2020 Edition' to 'Edition 15'
Section 10	Std.Dwg. E-8.2 New	Added to [in label]: 'Edition 15'
Section 10	Std.Dwg. E-8.2 New	Added to [in label]: 'Engineering Standards & Specifications '
Section 10	Std.Dwg. E-10.2 New variation of E-10.3	Added to [in label]: 'Edition 15'
Section 10	Std.Dwg. E-10.2 New variation of E-10.3	Added to [in label]: 'Engineering Standards & Specifications '
Section 10	Std.Dwg. E-10.2 New variation of E-10.3	Changed [in label]: '2-60A' to '2-30A'
Section 10	Std.Dwg. E-10.2 New variation of E-10.3	Changed [in label]: '60A' to '30A'
Section 10	Std.Dwg. E-10.2 New variation of E-10.3	Changed [in Title]: '60A' to '30A'
Section 10	Std.Dwg. E-10.2 New variation of E-10.3	Changed to [in TB Rev]: 'E-10.3' to 'E-10.2'
Section 10	Std.Dwg. E-10.2 New variation of E-10.3	Removed to [in TB Rev]: 'Nov 2012'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 10	Std.Dwg. E-10.3	Changed [in footer]: 'May 2020 Edition' to 'Edition 15'
Section 10	Std.Dwg. E-10.4	Changed [in footer]: 'May 2020 Edition' to 'Edition 15'
Section 10	Std.Dwg. E-10.4	Changed [in label]: '2 No. 6' to '2 No. 8'
Section 10	Std.Dwg. E-10.4	Changed [in label]: '60A' to '40A'
Section 10	Std.Dwg. E-10.4	Removed to [in label]: 'No. 6 AL'
Section 10	Std.Dwg. E-10.5	Changed [in footer]: 'May 2020 Edition' to 'Edition 15'
Section 10	Std.Dwg. E-10.5	Changed [in label]: '60A' to '40A'
Section 10	Std.Dwg. E-10.5	Removed to [in label]: '1 No. 6 AL'
Section 10	Std.Dwg. E-10.5	Removed to [in TB Rev]: 'NOV 2019'
Section 10	Std.Dwg. E-12.1	Changed [in footer]: 'May 2020 Edition' to 'Edition 15'
Section 10	Std.Dwg. E-12.1	Changed [in label]: 'SPLIT BOLT' to 'SPLIT BOLT OR SPAR TYPE'
Section 10	Std.Dwg. E-12.1	Removed to [in label]: 'No. 6 AL'
Section 10	Std.Dwg. E-12.1	Removed to [in TB Rev]: 'JAN 1998'
Section 10	Std.Dwg. E-12.2	Changed [in footer]: 'May 2020 Edition' to 'Edition 15'
Section 10	Std.Dwg. E-12.2	Removed to [in label]: 'No. 6 AL'
Section 10	Std.Dwg. E-12.2	Removed to [in TB Rev]: 'NOV 2019'
Section 10	Std.Dwg. E-14.7	Added to [in label dimension]: '4000'
Section 10	Std.Dwg. E-14.7	Changed [in footer]: 'May 2020 Edition' to 'Edition 15'
Section 10	Std.Dwg. E-14.7	Removed to [in label]: '3000 (TYPICAL)'
Section 10	Std.Dwg. E-14.7	Removed to [in label]: 'DIAMOND DETECTOR LOOP (SHOWN FOR ILLUSTRATION)'
Section 10	Std.Dwg. E-14.7	Removed to [in TB Rev]: 'NOV 2009'
Section 11	11.0_TOC Title	Changed: 'REINFORCED AND PLAIN CONCRETE WORKS' TO 'CAST IN PLACE CONCRETE WORKS'
Section 11	11.21 .2	Added: 'and Section 13.0 Surface Treatments.'
Section 11	11.24 .1 (a)	Changed: 'with the Engineer's approval' to 'when approved by City Engineer'
Section 11	11.24 .5 (b)	Changed: 'Engineer' to 'Professional of Record'
Section 11	11.24 .7 (c)	Changed: 'Engineer' to 'Qualified Registered Professional'
Section 11	11.25 .1	Changed: 'or' to 'for'
Section 11	11.25 .4 New	Added: 'Mix design for concrete bases shall conform to requirements of CSA A23.1. Table 1 and Table 2 for Class F-1. (REVISE? TBD 2025)'
Section 11	11.25 .4 (a) New	Added: '(a) Minimum compressive strength at 28 days: 30 MPa. (REVISE? TBD 2025)'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 11	11.25 .4 (b) New	Added: '(b) Maximum water to cementing materials ratio (w/cm): 0.5. (REVISE? TBD 2025)'
Section 11	11.25 .4 (c) New	Added: '(c) Air entrainment: 5% - 8%. (REVISE? TBD 2025)'
Section 11	11.25 .4 (d) New	Added: '(d) Slump shall be consistent with the placement and consolidation methods, equipment, and site conditions. (REVISE? TBD 2025)'
Section 11	11.25 .4 to clause 11.25 .5	Changed: 'Engineer' to 'Professional of Record'
Section 11	11.26 .2	Changed: 'City Engineer' to 'Professional of Record'
Section 11	11.26 .3	Changed: 'Engineer' to 'City Engineer and Professional of Record'
Section 11	11.26 .5 (a)	Changed: 'VSA A23.3:19' to 'CSA A23.3:19'
Section 11	11.26 .5 (b)	Changed: 'VSA A23.3:19' to 'CSA A23.3:19'
Section 11	11.26 .6 (a)	Changed "Engineer to Professional of Record"
Section 11	11.26.6 (d)	Changed "Engineer to Qualified Registered Professional"
Section 11	11.26 .6 (f)	Changed: 'SA A23.2-5C' to 'CSA A23.2-5C'
Section 11	11.26 .7	Changed: 'Engineer' to 'City Engineer'
Section 11	11.26 .7	Changed: 'his' to 'their '
Section 11	11.26 .8	Changed: 'owner' to 'City'
Section 11	11.26 .8	Changed: 'his' to 'their '
Section 11	11.28 .2	Changed: 'authorized by the Engineer' to 'approved by the Professional of Record' x2
Section 11	11.30 .1	Changed: 'Engineer' to 'Professional of Record'
Section 11	11.31 .1	Changed: 'authorized by the Engineer' to 'approved by the Professional of Record'
Section 11	11.31 .2	Changed: 'authorized by the Engineer' to 'approved by the Professional of Record'
Section 11	11.32.2 and .3 and .4	Changed '75mm to 75 mm', changed '50mm to 50 mm', changed '20mm to 20 mm';
Section 11	11.33 .1 (b)	Changed: 'Engineer' to 'Professional of Record'
Section 11	11.33 .1 (g)	Changed: 'authorized by the Engineer' to 'approved by the Professional of Record'
Section 11	11.33 .1 (g)	Changed: 'authorized' to 'approved'
Section 11	11.33 .2 (a)	Changed: 'Engineer' to 'Professional of Record'
Section 11	11.33 .2 (a)	Changed: 'lanes' to 'street'
Section 11	11.33 .2 (b)	Changed: 'Engineer' to 'Professional of Record'
Section 11	11.33 .2 (b)	Changed: 'lanes' to 'street'
Section 11	11.33 .4 (c)	Changed: 'Engineer' to 'Professional of Record'
Section 11	11.34.1	Changed 'Engineer' to "City Engineer"

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 11	11.36 .1	Changed: 'Engineer's approval' to 'approval of the Professional of Record for'
Section 11	11.36 .2	Changed: 'Engineer' to 'Professional of Record'
Section 11	11.36 .3	Changed: 'by the Engineer' to 'of the Professional of Record'
Section 11	11.36 .6	Changed: 'Engineer' to 'Professional of Record'
Section 11	11.38 .2	Changed: 'Engineer' to 'City Inspector'
Section 11	11.38 .2	Changed: '8mm' changed to '8 mm' and '3.0m' changed to '3.0 m' x 2
Section 11	11.38 .3	Changed: "5mm" to "5 mm" and "3.0m" to "3.0 m"
Section 11	11.38 .4	Changed: "5mm" to "5 mm" and "25mm" to "25 mm"
Section 11	11.39 .7	Changed: 'Engineer' to 'Professional of Record'
Section 11	11.39 .8 New	Added: Refer to Section 13.0 Surface Treatments [☐⇒].
Section 11	11.40 .1	Changed: 'Engineer' to 'Professional of Record'
Section 11	11.40 .3	Changed: 'CSA Awe.1:19' to 'CSA A23.1:19'
Section 11	11.40 .5	Changed: 'authorized by the Engineer' to 'approved by the Professional of Record'
Section 11	11.40 .6	Changed: 'authorized by the Engineer' to 'approved by the Professional of Record'
Section 12	12.20 .2 (new)	Added: 'For the definition of terms used within the Manual refer to Section 2.01 – Defined Terms.'
Section 12	12.20 .3 (new)	Added: 'For the list of products acceptable for the design within the scope of the Manual refer to the City of Nanaimo Approved Products List '
Section 12	12.21 .1	Changed: 'road' to 'asphalt'
Section 12	12.21 .2	Changed: 'Engineer' to 'Professional of Record'
Section 12	12.23 .6	Added: 'Composition'
Section 12	12.24 .2	Changed: 'Engineer' to 'Professional of Record' x2
Section 12	12.24 .2	Changed: 'his' to 'their'
Section 12	12.25 .1 (b)	Changed: 'Engineer' to 'Professional of Record'
Section 12	12.25 .2 (b)	Changed: 'Engineer' to 'Professional of Record'
Section 12	12.26 .1	Changed: 'Engineer' to 'Professional of Record'
Section 12	12.27 .1	Changed: 'Engineer' to 'Professional of Record'
Section 12	12.40 .1	Changed: 'Engineer' to 'Professional of Record'
Section 12	12.41 .1	Changed: '3.61' to '3.60'
Section 12	12.42 .1	Changed: 'Engineer' to 'Professional of Record'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 12	12.43 .1	Changed: 'Section 6.54 – Manhole Steps' to 'Section 6.54 – Manhole Rungs '
Section 12	12.44 .1	Changed: 'Engineer' to 'Professional of Record'
Section 12	12.44 .2	Changed: 'Engineer' to 'Professional of Record'
Section 12	12.44 .3	Changed: 'Engineer' to 'Professional of Record'
Section 12	12.44 .3 (a) (ii)	Changed: 'Engineer' to 'Professional of Record'
Section 12	12.44 .3 (c) (i)	Added: 'see Section 12.51 – Asphaltic Concrete Acceptance Requirements'
Section 12	12.44 .3 (c) (i)	Changed: 'Engineer' to 'Professional of Record'
Section 12	12.44 .4	Changed: 'Engineer' to 'Professional of Record'
Section 12	12.44 .5	Changed: 'Engineer' to 'Professional of Record'
Section 12	12.44 .5	Changed: 'his' to 'their'
Section 12	12.44 .6	Changed: 'Engineer' to 'Professional of Record'
Section 12	12.45 .3	Changed: 'shall' to 'must'
Section 12	12.45 .4	Changed: 'Engineer' to 'Professional of Record'
Section 12	12.45 .7	Changed: 'Engineer' to 'Professional of Record'
Section 12	12.46 .3	Changed: 'City of Nanaimo' to 'City'
Section 12	12.46 .5	Changed: 'Engineer' to 'Professional of Record'
Section 12	12.47 .1	Changed: 'shall' to 'must' and 'shall' to 'are'
Section 12	12.47 .1 (a)	Changed: 'shall' to 'must'
Section 12	12.47 .1 (b)	Changed: 'shall' to 'must'
Section 12	12.47 .4	Changed: 'Engineer' to 'Professional of Record'
Section 12	12.48 .1 (a)	Changed: 'Engineer' to 'Professional of Record'
Section 12	12.48 .2 (g)	Changed: 'his' to 'their'
Section 12	12.49 .1 (e) (new)	Added: 'Work shall be sequenced to avoid the number of cold joints.'
Section 12	12.51 .1	Changed: 'shall' to 'must' x2
Section 13	13.01.1	Changed: 'shall' to 'will'
Section 13	13.01 .1 (a)	Changed: 'Design Engineer' to 'Professional of Record'
Section 13	13.01 .3 New	Added: 'This manual is used in accordance with the Defined Terms in Section 2.0.'
Section 13	13.02 .1	Changed: 'shall be' to 'are'
Section 13	13.02 .1	Changed: 'streetscape' to 'street'
Section 13	13.02 .2 (d)	Changed: 'Tactile Warning Service Indicators' changed to 'Tactile Walking Surface Indicators'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 13	13.03 .1	Removed: 'shall'
Section 13	13.04 .1	Removed: 'shall'
Section 13	13.05 .1	Changed: 'shall be' to 'are'
Section 13	13.05 .2	Changed: 'base shall be' to 'bases are'
Section 13	13.05 .2 (a)	Changed: 'shall be' to 'is'
Section 13	13.05 .2 (b)	Changed: 'shall be' to 'is'
Section 13	13.06 .3	Changed: ' road right-of-way shall be' to 'roadway are'
Section 13	13.06 .4	Changed: 'bike path' to 'cycle track'
Section 13	13.06 .4	Changed: '0.3m' is changed to '0.3 m'
Section 13	13.07 .1	Changed: 'shall be' to 'are'
Section 13	13.07 .3	Changed: 'shall' to 'must'
Section 13	13.22 .1	Changed: 'deterious' changed to 'deleterious'
Section 13	13.44 .3	Changed: 'prior to approval of the City Engineer' to 'prior approval of the City Engineer'
Section 13	13.45 .3	Changed: 'BC Building Access Handbook 2014' to 'latest BC Building Access Handbook'
Section 14	14.01	Removed: REVISED MAY 2020
Section 14	14.01 .1	Changed: 'R.O.W.' to 'right-of-way'
Section 14	14.01 .2	Added: 'Common Defined Terms used in the manual are in Section 2.01 []. '
Section 14	14.01 .2	Changed: 'must be approved in writing by the City Engineer' to 'must be approved by the City Engineer'
Section 14	14.01 .4 (f)	Changed: 'developer' to 'contractor'
Section 14	14.01 .6 (d)	Changed: 'As-built drawings (with any revisions noted) must be provided to the City Engineer.' to 'Final Record drawings must be provided to the City Engineer. Refer to Section 1.0 for the submission requirements.'
Section 14	14.01.6 (e)	Removed: 'Of Nanaimo Forestry Department'
Section 14	14.02 .5	Changed: '5 m the over traveled' to '5 m over the travelled'
Section 14	14.02 .5	Changed: 'road' to 'roadway'
Section 14	14.02 .5	Changed: '2 m' to '2.5 m'
Section 14	14.03.1 (table)	Changed: '"Road Intersection" to "Street intersection"
Section 14	14.05 .1 (a)	Changed: 'road' to 'roadway'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 14	14.05 .1 (e)	Changed: '4.02' to '14.02'
Section 14	14.05.5 (b)	Changed: 'Take' to 'taken'
Section 14	14.06 .2 Table	Changed: 'single family dwelling' to 'single dwelling'
Section 14	14.06 .5	Changed: 'Trees on fronting' to 'Trees fronting on'
Section 14	14.06 .5	Changed: 'Engineer' to 'City Engineer'
Section 14	14.06 .5	Changed: 'single family lots' to 'single dwelling residential lots'
Section 14	14.07 .3	Removed: 'of Nanaimo'
Section 14	14.08 .2	Changed: 'road' to 'street'
Section 14	14.08 .2	Changed: Section 9.0 – Streets Traffic Signs and Markings' to 'Section 8.0 – Transportation'
Section 14	14.08 .2 Table	Changed: 'private landowner's' to 'property owner'
Section 14	14.08 .2 Table	Changed: 'road' to 'street'
Section 14	14.08 .4	Changed: '0.5 gpm' to '1.9 L/min (0.5 gallon per minute GPM)'
Section 14	14.08 .4	Removed: 'of Nanaimo'
Section 14	14.09 .1	Changed: 'water main' to 'watermain'
Section 14	14.09 .1	Removed: 'of Nanaimo'
Section 14	14.09 .2	Removed: 'of Nanaimo'
Section 14	14.11 .1	Changed: 'Engineer' to 'City Engineer'
Section 14	14.11 .1	Removed: 'in writing'
Section 14	14.12.3 (a)	Changed: 'B.C.S.L.A/B.C.N.T.A British Columbia' to 'BCNTA/BCSLA Landscape Standard'
Section 14	14.12.3 (h)	Removed: 'BC Landscape Standard'
Section 14	14.12 .3 (h) to (bb) redesignated	Redesignated: all subsections
Section 14	14.12 .3 (aa)	Changed: 'BC Ministry of Transport Guidelines for Maintenance' to 'Ministry of Transportation and Transit: Highway Maintenance Specifications.'
Section 14	14.14 .1	Changed: 'Engineer' to 'City Engineer'
Section 14	14.17A.1 (a) (paragraph above table)	After "anticipated", ", " comma was removed
Section 14	14.17A.1 (b) (paragraph above table)	After "anticipated", ", " comma was removed

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 14	14.17A.1 (b) (paragraph above table)	Around 'however' the punctuation is changed to "; however,"
Section 14	14.17A.1 (c) (paragraph above table)	After 'required' a comma "," is removed
Section 14	14.17A .1 (c) (paragraph above table)	Changed: 'reduce' to 'reduced'
Section 14	14.17A .1 (c) (paragraph above table)	Around 'however' the punctuation is changed to "; however,"
Section 14	14.18 .6	Changed: 'the City of Nanaimo's Standards and Specifications' to 'this standard'
Section 14	14.18 .6	Added: ' and'
Section 14	14.18 .6	Changed: 'contractor' to "Contractor"
Section 14	14.18 .7	Changed: 'contractor' to "Contractor"
Section 14	14.20 .1 (a)	Changed: 'and' to 'an'
Section 14	14.21 .6	Changed: 'much' to 'mulch'
Section 14	14.22.6	Changed: "4in" changed to "4 in"
Section 14	14.24.2	Changed: '0.5kg' changed to "0.5 kg"
Section 14	14.24.2	Changed: '0.10lb' changed to "0.10 lb"
Section 14	14.26.4	Changed: 'Engineer' to 'City Engineer'
Section 14	14.26.9	Changed: "Engineer' to 'City Engineer'
Section 14	14.26.9	A comma "," added after the word 'specified'
Section 14	14.26 .11	Changed: 'Engineer' to 'City Engineer'
Section 14	14.26 .11	Removed: 'in writing'
Section 14	14.28 .1	Changed: "British Columbia Landscape Standard, published by the Canadian Nursery Trades Association, and the B.C. Society of Landscape Architects" to 'BCNTA/BCSLA Landscape Standard'
Section 14	14.28 .3	Changed: 'Ryegrass Ryegrass' to 'Ryegrass '
Section 14	14.28 .6	Changed: Table layout amended list to a table format added header and sorted by Common Name
Section 14	14.31A .5	Changed: Section 8 to Section 9
Section 14	14.32 .1	Changed: 'operation' to 'operational'
Section 14	14.32 .1 (a)	Removed 'drip emitters and devices'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 14	14.32 .1 (b)	Changed: 'B.C. Plumbing Code' to 'National Plumbing Code of Canada'
Section 14	14.32 .1 (e)	Changed: 'Engineer' to 'City Engineer'
Section 14	14.34.1 (b) (i)	Changed: 'copper' to 'Copper'
Section 14	14.34 .1 (c)	Changed: 'B.C. Plumbing Code' changed to 'National Plumbing Code of Canada'
Section 14	14.35 .2 (c)	Changed: 'Engineer' to 'Professional of Record'
Section 14	14.35 .2 (d) New	Added: 'Drip line tubing will not be accepted.'
Section 14	14.38 .2 (e)	Changed: '4"' to '4 in'
Section 14	14.39.1	Changed: 'copper, brass, or bronze' to 'copper or brass'
Section 14	14.40.1	Removed: 'of'
Section 14	14.45.1	Added "[]" at the end of this bullet point
Section 14	14.46 .1	Changed: 'road' to 'roadway'
Section 14	14.47.3	Added: 'a space added after "[]"
Section 14	14.5	Removed: 'REVISED MAY 2020'
Section 14	14.50 .5	Added: '[]'
Section 14	14.51 .2	Changed: 'water-proof' to 'waterproof'
Section 14	14.53 .1	Changed: 'bronze' to 'brass'
Section 14	14.53 .1	Changed: 'water main' to 'watermain'
Section 14	14.56 .5	Changed: "contractor" to "Contractor"
Section 14	14.58 .2	Changed "1'" to "1 in"
Section 14	14.58 .2	Changed: 'Engineer' to 'Qualified Registered Professional'
Section 14	14.58 .3	Changed: 'Engineer' to 'Qualified Registered Professional'
Section 14	14.58.5 (b)	Changed: "A- horizon" to "'A horizon"
Section 14	14.58.6 (b)	Changed: "A- horizon" to "'A horizon"
Section 14	14.58.8 (table)	Changed: "A- horizon" to "'A horizon"
Section 14	14.59 .1	Changed: 'Engineer' to 'Professional of Record'
Section 14	14.59 .1	Changed: 'sub-grade' to 'subgrade'
Section 14	14.59.11	Changed: "A- horizon" to "'A horizon"
Section 14	14.59.12	Changed: "A- horizon" to "'A horizon"
Section 14	14.60.1 (b)	Changed: "A- horizon" to "'A horizon"
Section 14	14.60.2 (b)	Changed: "A- horizon" to "'A horizon"
Section 14	14.60.3	Changed: "A- horizon" to "'A horizon"

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 14	14.60.4	Changed: "A- horizon" to "'A horizon'"
Section 14	14.60.7	Changed: "A- horizon" to "'A horizon'"
Section 14	14.64 .1	Added: 'mm'
Section 14	14.64 .1	Changed: "min." to "minimum"
Section 14	14.64 .3	Changed: 'sub-grade' to 'subgrade'
Section 14	14.64 .4	Changed: 'sub-grade' to 'subgrade'
Section 14	14.64 .6	Changed: 'sub-grade' to 'subgrade'
Section 14	14.64 .7	Changed: "week" to "weeks"
Section 14	14.65 .1 (a)	Added: ", "
Section 14	14.69 .2	Changed: 'Engineer's' to 'Qualified Registered Professional'
Section 14	14.69 .4	Changed: '2"' was changed to "2 in"
Section 14	14.73 .4	Changed: "Engineer" to "City Engineer"
Section 14	14.78 .1	Changed: 'of' to 'or'
Section 14	14.78 .5	Changed: 'Pip' to 'Pipe'
Section 14	14.79 .5	Changed: 'water-proof' to 'waterproof'
Section 14	14.82 .4	Changed: 'call' to 'contact'
Section 14	14.86 .1	Changed: 'manufacturers' specifications' to 'City specifications'
Section 14	14.86 .4 New	Added: ' Only acceptable drip systems must be built using Schedule 40 PVC and 1.9 L/min (0.5 gallon per minute GPM) bubblers. Any poly tube drip systems will not be accepted.'
Section 14	14.87 .2	Changed: 'BC Landscape Standard 2008 Edition' to 'BCNTA/BCSLA Landscape Standard latest edition'
Section 14	14.87 .2_Table	Changed: 'BC Landscape Standard 2008 Edition' to 'BCNTA/BCSLA Landscape Standard '
Section 14	14.89 .4	Changed: 'shall be done only be applicators' to 'can only be done by those'
Section 14	14.90.2	Changed: "occurs" to "occur"
Section 14	14.91 .2	Added: 'most recent version of the'
Section 14	14.91 .2	Changed: "City of Nanaimo" to "City's"
Section 14	14.95 .2	Changed: 'Workers Compensation Board' to 'WorkSafeBC'
Section 14	14.95 .4	Changed: 'miss-direction' to 'misdirection'
Section 14	14.97.3 (a)	Added: ', '

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 14	14.98 .1 (d)	Changed: 'shall be not less' to 'shall not be less'
Section 14	14.99 .1	Changed: 'BC Landscape Standard 2008 Edition' to 'BCNTA/BCSLA Landscape Standard latest edition'
Section 14	14.99 .11	Changed: 'prescribed' to 'specified'
Section 14	Std.Dwg. P-1	Added [Note 2]: 'ONLY PRODUCTS LISTED IN THE CITY'S APPROVED PRODUCTS LIST OR APPROVED BY THE CITY ENGINEER ARE ACCEPTED FOR INSTALLATION.'
Section 14	Std.Dwg. P-1 Rev	Changed: 'M' to 'm' in annotation
Section 14	Std.Dwg. P-1 Rev	Changed: 'May 2020 Edition' to 'Edition 15' in footer
Section 14	Std.Dwg. P-1 Rev	Removed: 'MAY 2020'
Section 14	Std.Dwg. P-2	Changed to [in label]: '300mm MIN DEPTH IRRIGATION TRENCH' to '300 mm DEPTH IRRIGATION WITH MINIMUM TWO TREE BUBBLERS AS PER SECTION 14.08.04 AND STANDARD DRAWING I10'
Section 14	Std.Dwg. P-2	Added [Note 1]: 'ONLY PRODUCTS LISTED IN THE CITY'S APPROVED PRODUCTS LIST OR APPROVED BY THE CITY ENGINEER ARE ACCEPTED FOR INSTALLATION.'
Section 14	Std.Dwg. P-2 Rev	Changed: 'May 2020 Edition' to 'Edition 15' in footer
Section 14	Std.Dwg. P-2 Rev	Removed: 'NOV2016'
Section 14	Std.Dwg. P-3	Changed: 'May 2020 Edition' to 'Edition 15' in footer
Section 14	Std.Dwg. P-4	Added [Note 2]: 'ONLY PRODUCTS LISTED IN THE CITY'S APPROVED PRODUCTS LIST OR APPROVED BY THE CITY ENGINEER ARE ACCEPTED FOR INSTALLATION.'
Section 14	Std.Dwg. P-4	Added [Note 3]: 'BASE AND SUB-BASE REQUIREMENTS AS PER SECTION 9.0.'
Section 14	Std.Dwg. P-4	Added [Note 4]: 'CONCRETE REQUIREMENTS AS PER SECTION 11.0.'
Section 14	Std.Dwg. P-4	Changed: 'May 2020 Edition' to 'Edition 15' in footer
Section 14	Std.Dwg. P-4	Removed: 'MAY 2020'
Section 14	Std.Dwg. P-5 NEW	Added [Note 7]: 'ONLY PRODUCTS LISTED IN THE CITY'S APPROVED PRODUCTS LIST OR APPROVED BY THE CITY ENGINEER ARE ACCEPTED FOR INSTALLATION.'
Section 14	Std.Dwg. P-5 NEW	Added [Note 8]: 'CURB AND SIDEWALK AS PER SECTION 8.0'
Section 14	Std.Dwg. P-5 NEW	Added [Note 9]: 'BASE AND SUB-BASE REQUIREMENTS AS PER SECTION 9.0.'
Section 14	Std.Dwg. P-5 NEW	Added [Note 10]: 'CAST-IN PLACE CONCRETE REQUIREMENTS AS PER SECTION 11.0.'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 14	Std.Dwg. P-5	Changed [in label]: 'APPROVED TREE SPECIES AS PER SECTION.PRUNE FOR CLEARANCE (REFER TO SECTION) AND FOR TREE HEALTH (CLAUSE 14.62).' to 'APPROVED TREE SPECIES AS PER SECTION 14.05, PRUNE FOR CLEARANCE AS PER SECTION 14.02 AND FOR TREE HEALTH AS PER SECTION 14.62.'
Section 14	Std.Dwg. P-5 Rev	Added: '300 mm DEPTH IRRIGATION WITH MINIMUM TWO TREE BUBBLERS AS PER SECTION 14.08.04 AND STANDARD DRAWING I10' in annotation
Section 14	Std.Dwg. P-5 Rev	Added (Note 2): 'REFER TO TABLE IN CLAUSE 14.58.8.'
Section 14	Std.Dwg. P-5 Rev	Changed: 'May 2020 Edition' to 'Edition 15' in footer
Section 14	Std.Dwg. P-5 Rev	Changed: 'SECTION 14.59' to 'STANDARD DRAWING P-6.' in annotation
Section 14	Std.Dwg. P-5	Removed: 'MAY 2020'
Section 14	Std.Dwg. P-6	Added [Note 6]: 'ONLY PRODUCTS LISTED IN THE CITY'S APPROVED PRODUCTS LIST OR APPROVED BY THE CITY ENGINEER ARE ACCEPTED FOR INSTALLATION.'
Section 14	Std.Dwg. P-6	Added [Note 7]: 'CURB AND SIDEWALK AS PER SECTION 8.0'
Section 14	Std.Dwg. P-6	Changed: 'May 2020 Edition' to 'Edition 15' in footer
Section 14	Std.Dwg. P-6	Removed: 'MAY 2013'
Section 14	Std.Dwg. P-7	Added [Note 9]: 'ONLY PRODUCTS LISTED IN THE CITY'S APPROVED PRODUCTS LIST OR APPROVED BY THE CITY ENGINEER ARE ACCEPTED FOR INSTALLATION.'
Section 14	Std.Dwg. P-7	Added [Note 10]: 'BASE AND SUB-BASE REQUIREMENTS AS PER SECTION 9.0.'
Section 14	Std.Dwg. P-7	Added [Note 11]: 'CAST-IN PLACE CONCRETE REQUIREMENTS AS PER SECTION 11.0.'
Section 14	Std.Dwg. P-7	Added [Note 12]: 'CONCRETE SURFACE TREATMENT AS PER SECTION 13.0.'
Section 14	Std.Dwg. P-7 Rev	Added: '300 mm DEPTH IRRIGATION WITH MINIMUM TWO TREE BUBBLERS AS PER SECTION 14.08.04 AND STANDARD DRAWING I10' in annotation
Section 14	Std.Dwg. P-7 Rev	Added: 'BELOW AND STANDARD DRAWING P-6.' in annotation
Section 14	Std.Dwg. P-7 Rev	Added (Note 4): 'REFER TO TABLE IN SECTION 14.58.8'
Section 14	Std.Dwg. P-7 Rev	Changed: 'May 2020 Edition' to 'Edition 15' in footer
Section 14	Std.Dwg. P-7 Rev	Removed: 'MAY 2020'
Section 14	Std.Dwg. I-1	Added [Note 6]: 'WHERE STATIC WATER PRESSURE MAY EXCEED 550 KPA (80 PSI), INSTALL A PRESSURE REDUCING VALVE (PRV).'
Section 14	Std.Dwg. I-1	Changed [drawing symbol]: PRESSURE GUAGE to PRV
Section 14	Std.Dwg. I-1	Changed [Item 11]: 'bronze' to 'brass' in annotation

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 14	Std.Dwg. I-1	Changed [Item 7]: 'LIQUID FILLED PRESSURE GUAGE' to 'PRESSURE REDUCING VALVE (PRV)(SEE NOTE 7)'
Section 14	Std.Dwg. I-1	Changed [Note 4]: changed: 'RP' to 'REDUCED PRESSURE (RP)'
Section 14	Std.Dwg. I-1	Changed [Note 4]: 'DCVA' to 'DOUBLE CHECK VALVE ASSEMBLY (DCVA) '
Section 14	Std.Dwg. I-1	Changed: 'May 2020 Edition' to 'Edition 15' in footer
Section 14	Std.Dwg. I-1	Removed: 'MAY 2020'
Section 14	Std.Dwg. I-1	Changed: 'MM' to 'mm' in title
Section 14	Std.Dwg. I-1	Removed to [Item 10]: 'TYPE K ANNEALED COPPER PIPE OR'
Section 14	Std.Dwg. I-1	Changed [Note 2]: 'ONLY PRODUCTS APPROVED BY THE CITY ENGINEER AND LISTED ON THE CITY OF NANAIMO APPROVED PRODUCTS LIST WILL BE ACCEPTED FOR INSTALLATION.' to 'ONLY PRODUCTS LISTED IN THE CITY'S APPROVED PRODUCTS LIST OR APPROVED BY THE CITY ENGINEER ARE ACCEPTED FOR INSTALLATION.'
Section 14	Std.Dwg. I-1 Rev	Changed [in label]: '3/4"' to '19mm' in annotation
Section 14	Std.Dwg. I-1	Removed: 'TYPE K ANNEALED COPPER PIPE OR' in annotation
Section 14	Std.Dwg. I-3 Rev	Changed: 'bronze' to 'brass' in annotation
Section 14	Std.Dwg. I-3 Rev	Changed: 'May 2020 Edition' to 'Edition 15' in footer
Section 14	Std.Dwg. I-3 Rev	Removed: 'MAY 2020'
Section 14	Std.Dwg. I-4	Changed: 'May 2020 Edition' to 'Edition 15' in footer
Section 14	Std.Dwg. I-4	Removed: 'NOV2016'
Section 14	Std.Dwg. I-4	Changed [Note 3]: 'ONLY PRODUCTS APPROVED BY THE CITY ENGINEER AND LISTED ON THE CITY OF NANAIMO APPROVED PRODUCTS LIST WILL BE ACCEPTED FOR INSTALLATION.' to 'ONLY PRODUCTS LISTED IN THE CITY'S APPROVED PRODUCTS LIST OR APPROVED BY THE CITY ENGINEER ARE ACCEPTED FOR INSTALLATION.'
Section 14	Std.Dwg. I-5	Changed: 'May 2020 Edition' to 'Edition 15' in footer
Section 14	Std.Dwg. I-5	Removed: 'MAY 2020'
Section 14	Std.Dwg. I-5	Changed [Note 1]: 'ONLY PRODUCTS APPROVED BY THE CITY ENGINEER AND LISTED ON THE CITY OF NANAIMO APPROVED PRODUCTS LIST WILL BE ACCEPTED FOR INSTALLATION' to 'ONLY PRODUCTS LISTED IN THE CITY'S APPROVED PRODUCTS LIST OR APPROVED BY THE CITY ENGINEER ARE ACCEPTED FOR INSTALLATION.'
Section 14	Std.Dwg. I-6	Changed: 'May 2020 Edition' to 'Edition 15' in footer
Section 14	Std.Dwg. I-6	Removed: 'MAY 2013'

MoESS Main Section	Ed15 Section Clause or Drawing Number	Amendment
Section 14	Std.Dwg. I-6	Added [Note 2]: 'ONLY PRODUCTS LISTED IN THE CITY'S APPROVED PRODUCTS LIST OR APPROVED BY THE CITY ENGINEER ARE ACCEPTED FOR INSTALLATION.'
Section 14	Std.Dwg. I-7	Changed: 'May 2020 Edition' to 'Edition 15' in footer
Section 14	Std.Dwg. I-7	Removed: 'MAY 2020'
Section 14	Std.Dwg. I-7	Changed [Note 1]: 'ONLY PRODUCTS APPROVED BY THE CITY ENGINEER AND LISTED ON THE CITY OF NANAIMO APPROVED PRODUCTS LIST WILL BE ACCEPTED FOR INSTALLATION.' to 'ONLY PRODUCTS LISTED IN THE CITY'S APPROVED PRODUCTS LIST OR APPROVED BY THE CITY ENGINEER ARE ACCEPTED FOR INSTALLATION.'
Section 14	Std.Dwg. I-9	Changed: 'May 2020 Edition' to 'Edition 15' in footer
Section 14	Std.Dwg. I-9	Removed: 'MAY 2013'
Section 14	Std.Dwg. I-9	Changed [Note 2]: 'ONLY PRODUCTS APPROVED BY THE CITY ENGINEER AND LISTED IN THE CITY OF NANAIMO APPROVED PRODUCTS LIST WILL BE ACCEPTED FOR INSTALLATION.' to 'ONLY PRODUCTS LISTED IN THE CITY'S APPROVED PRODUCTS LIST OR APPROVED BY THE CITY ENGINEER ARE ACCEPTED FOR INSTALLATION.'
Section 14	Std.Dwg. I-10	Changed: 'May 2020 Edition' to 'Edition 15' in footer
Section 14	Std.Dwg. I-10	Removed: 'MAY 2020'
Section 14	Std.Dwg. I-10	Changed [Note 1]: 'ONLY PRODUCTS APPROVED BY THE CITY ENGINEER WILL BE APPROVED FOR INSTALLATION' to 'PRODUCTS LISTED IN THE CITY'S APPROVED PRODUCTS LIST OR APPROVED BY THE CITY ENGINEER ARE ACCEPTED FOR INSTALLATION. '
Section 14	Std.Dwg. I-11	Changed: 'May 2020 Edition' to 'Edition 15' in footer
Section 14	Std.Dwg. I-11	Removed: 'MAY 2020'
Section 14	Std.Dwg. I-11	Changed [Note 1]: 'ONLY PRODUCTS APPROVED BY THE CITY ENGINEER AND LISTED ON THE CITY OF NANAIMO APPROVED PRODUCTS LIST WILL BE ACCEPTED FOR INSTALLATION' to 'ONLY PRODUCTS LISTED IN THE CITY'S APPROVED PRODUCTS LIST OR APPROVED BY THE CITY ENGINEER ARE ACCEPTED FOR INSTALLATION.'