
ENGINEERING QUALITY STANDARDS

CONTENTS

	SECTION	ORIGINALLY ISSUED	LATEST UPDATE
1	GENERAL REQUIREMENTS AND PROCEDURES	May 1995	February 2007
2	GEOTECHNICAL	April 1993	
3	STORMWATER	October 1993	February 2007
4	WASTEWATER	December 1993	October 2005
5	WATER SUPPLY	October 1993	October 2005
6	ROAD CONSTRUCTION	October 1993	February 2007
7	STREET LANDSCAPING	May 1995	February 2007

ENGINEERING QUALITY STANDARDS

LIST OF DRAWINGS

	SECTION	LATEST UPDATE
	Section 1	
GP1	Symbols	May 1995
	Section 2	
G1	Phases of Investigation	February 2000
G2	Logic for Site investigations of Subdivisions	February 2000
G3	Checklist for reporting	February 2000
G4	Checklist for Geotechnical completion reporting	February 2000
	Section 3	
D1	Typical U.P.V.C. Pipe bedding detail	May 1995
D2	Intensity Curves	July 2004
D3	Standard Cesspit	July 2002
D4	Recess Cesspit	July 2002
D5	Stormwater Manhole Details	April 2005
D6	Field Cesspit	March 1997
D7	Stormwater House Connection	August 2006
D8	Typical Granular Bedding Detail	May 1995
D9	Stormwater Inlet Grill	December 1992
D10	Dished Channel	December 1992
D11	Comprehensive Discharge Consent Index	August 2006
D11A	Comprehensive Discharge Consent Index Table	August 2006
D12	Horizontal Drilling of pipes	October 2004
D13	Anchor Block Detail	October 2003
D14	Scruffy Dome Installation	October 2003
D15	Shallow Manhole Details	August 2006
D16	Connection Into Existing Pipes	August 2006
	Section 4	
S1	Sewer House Connection	February 2001
S2	Sewer Manhole Details	April 2005
S3	Shallow Manhole Details	October 2005
S4	Manholes Layout & Service Connections Acceptable Solutions	October 2005
S5	Connections into existing pipes	February 2001
S7	uPVC Pipe Bedding Detail	February 2001
S8	Typical Granular Bedding Detail	February 2001
PS01	Site Layout	October 2004
PS02	Typical Site Requirements	October 2004

	SECTION	LATEST UPDATE
PS03	Concrete Apron Layout Wet Well Construction Requirements	October 2004
PS04	Wet Well Construction Requirements	October 2004
PS05	Valve Chamber Construction Requirements	October 2004
PS06	Access Hatch Layout for FLYGT Top – 100 Wet Well Sump Liner	October 2004
PS07	Access Hatch Layout for FLYGT Top – 150 Wet Well Sump Liner	October 2004
PS08	Lifting Gantry	October 2004
PS09	Lifting Gantry Details	October 2004
PS10	Wet Well Level Control	October 2004
PS11	Chamber Lid Details	October 2004
PS12	Satellite Manhole Construction Requirements	October 2004
PS13	Rising Main Inspection and Discharge Manholes	October 2004
PS14a	Wastewater Pumping Station Standards Standard Split Lid Access Hatch (1500x940) Assembly Sheet 1	October 2005
PS14b	Wastewater Pumping Station Standards Standard Split Lid Access Hatch (1500x940) Assembly Sheet 2	October 2005
PS14c	Wastewater Pumping Station Standards Standard Split Lid Access Hatch (1500x940) Component 1	October 2005
PS14d	Wastewater Pumping Station Standards Standard Split Lid Access Hatch (1500x940) Component 2	October 2005
PS14e	Wastewater Pumping Station Standards Standard Split Lid Access Hatch (1500x940) Components 3,4,5,6,7,13	October 2005
PS14f	Wastewater Pumping Station Standards Standard Split Lid Access Hatch (1500x940) Components 8,9,10,11,12	October 2005
PS14g	Wastewater Pumping Station Standards Standard Grille for Split Lid Access Hatch (1500x940) Assembly Sheet 1	October 2005
PS14h	Wastewater Pumping Station Standards Safety Grille for Split Lid Access Hatch (1500x940) Assembly Sheet 2	October 2005
PS14i	Wastewater Pumping Station Standards Safety Grille for Split Lid Access Hatch (1500x940) Components 30 & 32	October 2005
PS14j	Wastewater Pumping Station Standards Standard Split Lid Access Hatch (1500x940) Component 31	October 2005
PS15a	Wastewater Pumping Station Standards Standard Split Lid Access Hatch (1300x810) Assembly Sheet 1	October 2005
PS15b	Wastewater Pumping Station Standards Standard Split Lid Access Hatch (1300x810) Assembly Sheet 2	October 2005

	SECTION	LATEST UPDATE
PS15c	Wastewater Pumping Station Standards Standard Split Lid Access Hatch (1300x810) Component 1	October 2005
PS15d	Wastewater Pumping Station Standards Standard Split Lid Access Hatch (1300x810) Component 2	October 2005
PS15e	Wastewater Pumping Station Standards Standard Split Lid Access Hatch (1300x810) Components 3,4,5,6,7,13	October 2005
PS15f	Wastewater Pumping Station Standards Standard Split Lid Access Hatch (1300x810) Components 8,9,10,11,12	October 2005
PS15g	Wastewater Pumping Station Standards Standard Grille for Split Lid Access Hatch (1300x810) Assembly Sheet 1	October 2005
PS15h	Wastewater Pumping Station Standards Safety Grille for Split Lid Access Hatch (1300x810) Assembly Sheet 2	October 2005
PS15i	Wastewater Pumping Station Standards Safety Grille for Split Lid Access Hatch (1300x810) Components 30 & 32	October 2005
PS15j	Wastewater Pumping Station Standards Standard Split Lid Access Hatch (1300x810) Component 31	October 2005
PS16a	Wastewater Pumping Station Standards Standard Access Hatch (750x1800) Assembly Sheet1	October 2005
PS16b	Wastewater Pumping Station Standards Standard Access Hatch (750x1800) Assembly Sheet2	October 2005
PS16c	Wastewater Pumping Station Standards Standard Access Hatch (750x1800) Component 1	October 2005
PS16d	Wastewater Pumping Station Standards Standard Access Hatch (750x1800) Component 2	October 2005
PS16e	Wastewater Pumping Station Standards Standard Access Hatch (750x1800) Components 3,4,5,6,7	October 2005
PS16f	Wastewater Pumping Station Standards Standard Access Hatch (750x1800) Components 8,9,10,11,12	October 2005
PS16g	Wastewater Pumping Station Standards Standard Access Hatch (750x1800) Component 13	October 2005

Section 5

W1	Ducting for Private Ways	October 2005
W2	Gibault Ridermain Connection	October 2003
W3	Tapping Band Rider Main Connection	October 2003
W4	Watermain Pipe Bedding Detail	November 1999
W5	Tee Intersection Example One	July 2004
W6	Tee Intersection Example Two	October 2003
W7	Cross Intersection	October 2003
W8	Subdivision Connection Detail 15mm & 20mm	March 2002
W9	Service Connection Detail 15mm, 20mm & 25mm	March 2002
W10	Service Connection Detail 40mm & 50mm	March 2002
W11	Water Meter Installations 100 and 150 mm	March 2002
W14	Fire Sprinkler Connection	October 2005
W15	Sprinkler and Hydrant Connection – 100mm	Withdrawn October 2005
W16	Sprinkler and Hydrant Connection – 100-200mm (Mag-flow Option)	Withdrawn October 2005
W17	Fire Sprinkler Connection with Detector Assembly	Withdrawn October 2005
W26	Water Meter Banks – Typical Layout	October 2004
W27	Water Meter Bank - Detail	October 2005

Section 6

R1	Maximum Roding Contributions	Withdrawn August 2006
R2	Summary of Roding Access Criteria	Withdrawn August 2006
R3	Turning Areas	February 2000
R4	Car Parking Layout	February 2000
R5	Standard Berm	February 2000
R6	C.B.R. Pavement Design Chart	April 2005
R7	Stabilised Subgrade Zone Design Chart	February 2000
R8	Pram Crossing	February 2007
R9	Residential Vehicle Crossing	February 2007
R10	Commercial Vehicle Crossing	August 2006
R10A	Standard Template For Design Of Vehicular Crossings	February 2007
R11	Kerb and Channel Details	February 2007
R12	Residential Private Ways Construction	August 2006
R12A	Private Way: Service Trench Detail	April 2005
R13	Interlocking Block Paving	February 2000
R14	Wire Mesh Fence for Accessways	June 2000
R15	Pipe and Mesh Fence	
R16	Rural Roding (Provisional)	August 2006
R17	Rural Private Ways (Provisional)	August 2006
R18	Mountable Kerb and Nib for Traffic Island	August 2006
R20	Industrial/Commercial Private Ways Construction	August 2006
R21	Vehicle Tracking Curves	December 1994
R22	Access Barriers	September 2000

R23	Rural Vehicle Crossing	August 2006
R24	Truck Tracking Curves	August 2006
R25	Guard Rail	February 2007
R26	Guard Rail: Steel Post	February 2007

Section 7

T1	Standard Berm Cross Section with envelopes for tree planting	February 2000
T2	Intersection distance requirements for visibility	February 2000
T3	Street Tree Placement	December 2001
T4	Species Selection	Withdrawn August 2006
T5	Species Combinations	Withdrawn August 2006
T6	Manukau Identity Areas	Withdrawn August 2006
T7	Planting Policy Theme Species by Area	Withdrawn August 2006
T8	Planting Policy Theme Species by Area	Withdrawn August 2006
T9	Theme Species Characteristics	Withdrawn August 2006
T10	Theme Species Characteristics	Withdrawn August 2006
T11	Theme Species Characteristics	Withdrawn August 2006