Appendix J: Schedule 1D As-Built Plans and Documents

Schedule 1D

As-Builts Drawings

Information given on as-built drawings, submitted electronically in PDF format at a scale of 1:500, shall include but shall not be limited to the following and is required on disc prior to the issue off the Section 224 Certificate.

- (a) General:
 - □ Separate PDF files are required for each Infrastructure service. One .DXF file with layers for each Infrastructure service contained in it will be sufficient. The format of the .DXF file must be identified when submitting (Exact Projection e.g., Whanganui Circuit)
- (b) □ The co-ordinates of at least two points on each Plan in terms of an appropriate geodetic or cadastral datum and the origin of the plan level datum. Refer Supplement Document clause 1.5.2.2

The format of the .DXF file which has been submitted must be identified when submitting.

- (c) Roading Plan:
- Location Details of road marking □ Signs □ Amenities features, eq: seats Street Lights Centreline distances □ Road Names (as approved by Council) Sumps (Type/Lid Level/Co-ords) Sump Legs (DN Size/Material) Subsoil (DN Size/Material/DofC) (d) Typical Roading Cross Section Drawing Showing Pavement Layers. Scale 1:100 (e) Roading Longsection:
- (f) Stormwater Reticulation Drawing:
 - □ Co-ordinated positions of manholes □ Manhole inverts and lid levels
 - \Box Inverts of pipes
 - Position and depth of connections at lot boundaries (Depths in metres and also City Datum)
 Positions of connections shall be both co-ordinated and referenced to adjacent manhole lids and lot boundary pegs*
 - □ Pipe material
 - Pipe materiaClass rating
 - Pipe Grade as %
 - ☐ As a minimum, detention and the secondary flow path route to meet the 1% AEP flood event must be shown

(g) Wastewater Reticulation Drawing:

Co-ordinated positions of manholes
Manhole inverts and lid levels

DN size

DN size

□ Joint type

□ Joint type

Joint type

- □ Inverts of pipes □ Measurements to house connections (from MH's)
- Position and depth of connections at lot boundaries (Depths in metres and also City Datum)
 Positions of connections-shall be both co-ordinated and referenced to adjacent manhole lids and lot boundary pegs*
- □ Pipe material
- Class rating
- □ Pipe Grade as %

(h) Water Reticulation Drawing:

- □ Results of pressure test pipes
- Dipe material, PN rating, joint type, DN size
- □ Location of thrust blocks, fire hydrants, valves (FH and V shall be co-ordinated)
- □ Distance of water connection (toby) (LH Bdy and RH Bdy)
- Depth of cover and position of mains (grass or seal) (Depths in metres and also City Datum)
- (i) Ducts:
 - D Position and diameter, cover and utility type for ducts installed for utilities

Schedule 1D

Post Construction Information

Post construction information is required in full prior to issue of the Section 224 Certificate but may be provided progressively as works are completed and tested.

- (a) Road Information General:
 - Source of aggregates
 - Pavement design including subgrade test results (compaction and CBR) and pavement depth

- \square Grading and sand equivalent of basecourse
- □ Compaction of basecourse (as required by NZS4404 and TNZ B/2)
- Benkelman Beam test results on finished basecourse
- □ Source of pavement and surfacing materials
- (b) Road Surfacing Information For Sealed Roads:
 - Binder type and application rate
 - Adhesion agent type and quantity
 - Chip size
 - Width, length and area of each street sealed \square
 - Source of aggregates Discussion on any reasons for differences between design and applied rate
 - □ Mix design for asphaltic concrete
 - \square Density tests and air voids content for asphaltic concrete
 - Asphalt details including mixture and thickness
 - Interface details between asphalt surfacing and basecourse (i.e.: tack coat or full chip seal, etc)
- (c) Stormwater Reticulation Information:
 - Results of pressure test of pipes Π
 - Test results of backfill for all lines including bedding
 - CCTV inspection records of all stormwater pipelines (flush lines first)
- (d) Wastewater Reticulation Datasheets:
 - Results of pressure test of pipes
- □ WDC MH inventory datasheets

□ WDC MH inventory data sheets

Cutter type and quantity

Type and quantity of other additives

Design basis for binder application rate

- Test results of backfill for all lines including bedding \square CCTV inspection records of all wastewater pipelines (flush lines first)
- (e) Water Reticulation Information:
 - Results of pressure testing of pipelines
 - □ Test results of backfilling for all lines including backfill
 - CCTV inspection of all large water pipelines at Engineers discretion (flush lines first)
- (f) Geotechnical Completion Report:
 - □ Bulk fill test results (TNZ F/1)
 - □ Test results for residential (building platform) fills (NZS 4431)
 - Statement of suitability (Schedule 2A NZS4404)
 - As-built surface contour drawing inclusive of all areas of undisturbed and cut/fill ground to indicate the finished ground and any deviation from approved design plan, also delineating zone areas of low density

		Diagram: Show inverts, direction and sizes (include MH diameter in mm North		
Effluent Type:	Stormwater	•		
	Wastewater			
Address:				
Construction Date (if n	ew) or Inspection Date:			
(C)	D.]		
Contractor:				
Location Detail	5			
Berm	Private Property			
Carriageway	Reserve			
Fixing Details Manhole Asset I	D			
Cover Level	Depth (m)	Invert La	evel Easting (X) Northing (Y
Structural Detai	ls			
Manhole Type	Chamber	Cone	Steps	Cover
Standard	Brick	Brick	Safety	Standard
Cross-over	Precast Concrete	Precast Conc	rete Non-safety	Non-rock
Diversion	In-situ Concrete	In-situ Conc	rete No Steps	Locked
Internal Drop	Other -	Other -	Steel	Sealed
External Drop			Plastic	Banded
Riser Manhole				Caged
Rising Main Disc	harge	If cover is AS/NZ	S 3996, indicate class(B, C	C or D)
Condition Detail	s			
Chamber	Channel/Base	Cone	Steps	Cover
Good	Good	Good	Good	Good
Fair	Fair	Fair	Fair	Fair
Poor	Poor	Poor	Poor	Poor
General Inform	ation	Comments		
Evidence of:	Dewatering:			
Surcharge	Required			
Infiltration	Not required			
Roots				