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

Commented [SC1]: No changes

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
- ☐ Signs
- ☐ Street Lights
- ☐ Road Names (as approved by Council)
- ☐ Details of road marking
- ☐ Amenities features, eg: seats
- ☐ Centreline distances
- ☐ 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
- ☐ 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
- ☐ DN size
- ☐ Class rating
- ☐ Joint type
- ☐ 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
- ☐ 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
- ☐ DN size
- ☐ Class rating
- ☐ Joint type
- ☐ Pipe Grade as %

(h) Water Reticulation Drawing:
- ☐ Results of pressure test pipes
- ☐ Joint type
- ☐ Pipe 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:
- ☐ 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
- ☐ 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
- ☐ Cutter type and quantity
- ☐ Type and quantity of other additives
- ☐ Design basis for binder application rate
- ☐ Source of aggregates
- ☐ Discussion on any reasons for differences between design and applied rate
- ☐ Mix design for asphaltic concrete
- ☐ 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
- ☐ WDC MH inventory data sheets
- ☐ 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
- ☐ Test results of backfill for all lines including bedding
- ☐ 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

Manhole Inventory Form

WHANGANUI DISTRICT COUNCIL
Te Kaunihera a Rohe o Whanganui

Diagram: *Show inverts, direction and sizes (include MH diameter in mm)*
North

Effluent Type: ☐ Stormwater ☐ Wastewater

Address:

Construction Date (if new) or Inspection Date:
(C) (I)

Contractor:

Location Details

☐ Berm ☐ Private Property
☐ Carriageway ☐ Reserve

Fixing Details
Manhole Asset ID

Cover Level	Depth (m)	Invert Level	Easting (X)	Northing (Y)

Structural Details

Manhole Type	Chamber	Cone	Steps	Cover
☐ Standard	☐ Brick	☐ Brick	☐ Safety	☐ Standard
☐ Cross-over	☐ Precast Concrete	☐ Precast Concrete	☐ Non-safety	☐ Non-rock
☐ Diversion	☐ In-situ Concrete	☐ In-situ Concrete	☐ No Steps	☐ Locked
☐ Internal Drop	☐ Other →	☐ Other →	☐ Steel	☐ Sealed
☐ External Drop			☐ Plastic	☐ Banded
☐ Riser Manhole				☐ Caged
☐ Rising Main Discharge				

If cover is AS/NZS 3996, indicate class(B, C or D)

Condition Details

Chamber	Channel/Base	Cone	Steps	Cover
☐ Good	☐ Good	☐ Good	☐ Good	☐ Good
☐ Fair	☐ Fair	☐ Fair	☐ Fair	☐ Fair
☐ Poor	☐ Poor	☐ Poor	☐ Poor	☐ Poor

General Information

Evidence of:
☐ Surcharge
☐ Infiltration
☐ Roots
☐ Debris / Silt

Dewatering:
☐ Required
☐ Not required

Indicate serverity in comments box

Comments

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