

## **WYNDHAM CITY COUNCIL TECHNICAL SPECIFICATIONS – FUNDAMENTAL TECHNICAL CHANGES**

*The items listed in this document are some of the significant changes made to the VicRoads standard specifications and are not a wholistic list of all changes. For a complete list of changes refer to the specification sections.*

### **Section 173 - Examination and Testing of Materials and Work (Roadworks)**

1. Clause 173.03 (a) (i) – Omitted (reference to static smooth steel wheeled rollers for test rolling).
2. Clause 173.03 (a) (ii) – Pneumatic tyred plant defined as plant comprising of a loaded tandem truck or filled watercart (ensuring minimum capacity at 75%).

### **Section 180 - Ride Quality for Pavements**

1. Clause 180.06 Payment Deduction Provisions – Omitted
2. Clause 180.07 Payment Retention – Omitted

### **Section 201 – Site Clearing**

1. Clause 201.03 – Limit of clearing works revised.
2. Clause 201.04 – Reference to road passing through Crown Land or State Forest – Omitted
3. Clause 201.05:
  - Foundations are not permitted to remain within embankments to be filled.
  - Redundant pits to be completely removed.
4. New Clause 201.10 (c) Removal of Native Trees - Added

### **Section 204 – Earthworks**

1. Clause 204.02 Definitions
  - Allotment definition added.
  - Cut Floor Level definition amended
  - Subgrade level on fills and in cuts definitions amended.
2. Clause 204.03 (g) – Scale B measurements and tolerances nominated for subgrade level and shape.
3. Clause 204.05 Stripping of Topsoil – Amended requirement for topsoil to be stripped for the full area of cut and fill.
4. Clause 204.06 (e) – Amended requirement that “The material within 400 mm below Subgrade have an Assigned CBR of not less than the Design CBR for the pavement.
5. Clause 204.07 (b) (i), (ii) & (iii) treatment of unsuitable not exceeding 150mm in depth – Omitted
6. Clause 204.07 (e) & (f) – Omitted.
7. Clause 204.08 Surplus Excavated Material - Omitted
8. Clause 204.09 – Amended requirement “Borrow excavations not permitted within the road reserve without Council approval”.
9. Clause 204.10 – New subclause “(d) (ii) Filling of Allotments and Reserves added.
10. Clause 20.13
  - Scale B compaction nominated for fills.
  - Maximum lot size of 500m<sup>2</sup> specified under paved areas.
11. Table 204.131 Compaction Requirements – Separated into two location requirements, within the future road reserve and all other areas including allotments.
12. Clause 204.14 (c) – Frequency of compaction testing amended requiring that every lot be tested in accordance with the requirements of the specification.

## **Section 290 – Lime Stabilisation of Earthworks Materials**

1. Clause 290.11 Preliminary Trial - Omitted
2. Clause 290.14 – Scale B compaction requirements are nominated.
3. Clause 290.15 (b) – Frequency of compaction testing amended requiring that every lot be tested in accordance with the requirements of the specification.

## **Section 304 – Unbound Flexible Pavement Construction**

1. Clause 304.01 Description – Crushed scoria omitted from the specification.
2. Clause 304.06 (b) – Maximum lot size for measurement and assessment of surface levels amended from 4000 m<sup>2</sup> to 500 m<sup>2</sup>.
3. Clause 304.06 (b) (ii)
  - Scale C surface level tolerances for pavement courses adopted, with the base course tolerance amended to +\_ 10mm.
4. Clause 304.06 (e) Rideability – Omitted.
5. Clause 304.08 - Scale B compaction requirements are nominated.
6. Clause 304.10 – Post compaction grading and plasticity index testing requirements are optional at Council's discretion.
7. Clause 304.11 (b)
  - Compaction lot testing rate added to include "one lot test for every 500m<sup>2</sup> or part thereof of work, plus one additional lot test in each intersection and court bowl."
  - Frequency of compaction testing amended requiring that every lot be tested in accordance with the requirements of the specification.
8. Table 304.111 Maximum Lot Size and Minimum Frequency of Testing for Compaction, Post-compaction Grading and PI (after passing the minimum number of qualifying lots) – Omitted

## **Section 306 - Cementitious Treated Pavement Subbase**

1. Clause 306.03 (b)
  - One test in each intersection and court bowl added.
  - Scale C requirements adopted for surface level measurements of the subgrade and pavement courses.
2. Table 306.033 Payment Deduction for Surface Level – Omitted.
3. Clause 306.09 (a) – Maximum lot size amended to 500 m<sup>2</sup>.

## **Section 407 – Dense Graded Asphalt**

1. Table 407.271 & Table 407.273 – Acceptance of non-conforming lots for compaction of pavement layers - Omitted.
2. Clause 407.29 (b) (i) – Acceptance of non-conforming lots for surface Level Tolerances of the Sub-base and Pavement Courses - Omitted.

## **Section 408 - Sprayed Bituminous Surfacing**

1. Clause 408.12 (a) – The use of stacksites not permitted on the road reserve.
2. Clause 408.15 (a) – Acceptance of unsatisfactory surface texture or aggregate loss omitted.

## **Section 610 – Structural Concrete**

1. Clause 610.07 (c) Trial Mix – Omitted.
2. Clause 610.07 (f) - Use of other cementitious materials not permitted.

## Section 701 - Underground Stormwater Drains

### 1. Clause 701.02 – Standards

AS/NZS 2041	Buried corrugated metal structures - Omitted
AS/NZS 2566	Buried Flexible Pipelines – Omitted
AS 3571	Plastics piping systems - Omitted
AS 3572	Plastics – Glass filament reinforced plastic (GRP) – Methods of test - Omitted
AS 4139	Fibre-reinforced concrete pipes and fittings - Omitted
AS/NZS 4441	Oriented PVC (PVC-O) pipes for pressure applications – Omitted
AS/NZS 5065	Polyethylene and polypropylene pipes and fittings for drainage and sewerage applications – Omitted

### 2. Clause 701.03 – Definitions

- (b) Oriented polyvinyl chloride (OPVC) - Omitted
- (c) Acrylonitrile butadiene styrene (ABS) - Omitted
- (d) Glass filament reinforced plastics (GRP) - Omitted
- (e) Polyethylene (PE) - Omitted
- (f) High-density polyethylene (HDPE) - Omitted
- (g) Polypropylene (PP) – Omitted

- 3. Clause 701.05 Additional jointing requirements added for precast reinforced concrete pipes.
- 4. Clause 701.05 New subclause “(f) Identification of Units” added.
- 5. Clause 701.06 Fibre Reinforced Concrete Rigid Pipes – Omitted
- 6. Clause 701.07 Buried Corrugated Metal Culverts – Omitted
- 7. Clause 701.08 Buried Flexible Pipes - Omitted
- 8. Clause 701.09 (d) – Bedding and backfill material requirements amended.
- 9. Clause 701.10 – HP for commencement of drainage pipe backfill amended to align with EDCM requirements.
- 10. Table 701.151 Corrugated metal culverts and flexible pipes - Omitted.
- 11. Clause 701.17 (b) Corrugated metal culverts - Omitted.
- 12. Clause 701.17 (e) Flexible pipes - Omitted.
- 13. Clause 701.19 (a) – Additional requirements added where drainage culverts and/or drainage trenches expose backfilling of utility services and/or utility service trenches.
- 14. Clause 701.19 (a) – Additional subclause added regarding culverts within one metre of the road pavement boxing.
- 15. Clause 701.19 (a) (i) & (ii) – Amended.
- 16. Clause 701.19 (c) – Amended
- 17. Clause 701.20
  - Compaction lot testing requirements for bedding, select backfill and ordinary backfill amended.
  - Additional subclause added with respect to density requirements select backfill.
- 18. Clause 701.21 Assembly of Corrugated Metal Culverts - Omitted
- 19. Clause 701.22 Assembly of Buried Flexible Pavements - Omitted
- 20. Clause 701.23 – Amended requirements regarding backfill under paved areas.
- 21. Clause 701.24 (c) – Amended requirements regarding pavement restoration.
- 22. Table 701.291 – Minimum testing requirements for bedding and backfill materials amended.
- 23. Clause 701.30 – CCTV inspection of drainage lines for under paved areas and non paved areas further defined.
- 24. Clause 701.31 (b) Fibre Reinforced Concrete (FRC) Rigid Pipes - Omitted
- 25. Clause 701.31 (c) Other types of pipes – Omitted

### **Section 703 - General Concrete Paving**

1. Clause 703.14 Fibre Reinforced Concrete – Omitted
2. Clause 703.16 (a), (b), (c), (d) & (e) - Omitted. Thickness and steel mesh requirements amended to refer to project drawings and / or standard drawings.
3. Clause 703.21 (a) & (b) – Bedding requirements amended to refer to the drawings.
4. Clause 703.21 – Amended to include service trenches under paved areas.
5. Clause 703.26 (a) (i) & (b) (ii) – Amended joint requirements to reference weakened plain joints at intervals not exceeding the width of path.
6. Clause 703.26 (b) (i) – Expansion joint requirements amended to refer to drawings.
7. Clause 703.26 (c) – Joints between concrete paving and shared use path omitted.

### **Section 705 – Drainage Pits**

1. Clause 705.08 (b) Prototype Testing – Additional requirement added requiring submission of a detailed report prepared by a VicRoads pre-qualified consultant and proof engineered.

### **Section 706 - Installation or Replacement of Utility Infrastructure within Road Reserves**

1. Clause 706.01 – Description amended to include reference to existing and future road reserve.
2. Clause 706.03 – Amended requirements to provide a minimum depth of 450mm or to the service authority requirements whichever is the greater under road carriageways.
3. Table 706.061 Material Properties – Amended requirements for bedding, selected backfill and ordinary backfill.
4. Clause 706.07 – Bedding requirements for conduits - Amended.
5. Clause 706.08 (a) – Backfill requirements for conduits under area to be paved, including shoulders and verges - Amended.
6. Clause 706.08 (b) – Backfill requirements for conduits under area not to be paved, including shoulders and verges - Amended.
7. Clause 706.08 (c) – Amended requirement that pavement material be placed and compacted in layers not exceeding 150mm loose thickness.
8. Clause 706.08 - New sub-clause added regarding backfill of conduits within one metre of areas to be paved.
9. Clause 706.09 – Amended to include backfill within one metre of areas to be paved. Compaction density ratio amended to 98% modified compaction.

### **Section 708 - Steel Beam Guard Fence**

1. Clause 708.20 Grassing of Disturbed Areas – Amended to reference Wyndham City Council Specification Section 740.

### **Section 711 – wire Rope Safety Barrier (WRSB)**

1. Clause 711.22 – Grassing of Disturbed Areas – Amended to reference Wyndham City Council Specification Section 740.

### **Section 714 – Sign Installation**

1. Clause 714.06 (c)
  - Foundations – Foundation diameter for 32mm and 50mm nominal bore steel post amended to 300mm as per Wyndham City Council standard drawings.
  - Concrete strength for foundations amended to 25MPa.
2. Clause 714.06 (d) – Post socket protrusion amended to 75mm above ground.
3. Clause 714.07 (f) – Omitted

## **Section 721 – Pavement Markings**

1. Clause 721.A04 – Inclusion and Deletion of Job Items – Omitted
2. PART 721.C – Pavement Markings For Maintenance Works – Omitted

## **Section 811 – Gravel, Sand and Soft or Ripped Rock for Pavement Base and Subbase**

1. Clause 811.01 Description – Omitted naturally occurring or partly processed gravel, scoria tuff, sand and soft rock.
2. Clause 811.02 Definitions - Omitted naturally occurring or partly processed gravel, scoria tuff, sand and soft rock.
3. Table 811.041 – Added physical properties for ripped rock.
4. Table 811.042 – Added grading requirements for ripped rock.
5. Table 811.044 Scoria Source Rocks, Hardness Requirements – Omitted
6. Table 811.071 – Minimum testing frequencies added.

## **Section 812 – Crushed Rock for Pavement Base and Subbase**

1. Table 812.062 (c) Plant Mixed Wet Mixed Crushed Rock (PMWMCR) – Omitted.
2. Clause 812.06 (d) Sulphide Mineralisation – Treatment of non conforming material with lime stabilisation omitted.

## **Section 860 – Manufacture of Road Signs**

1. Clause 860.06 Packaging Handling and Storage - Omitted
2. Clause 860.07 (c) Giving Warranty - Omitted