# LOCALITY PLAN

1:20,000 @ A3 SCALE: MEI WAYS: 204 F5

### Schedule 8 :Drawing Schedule

	Rev	Drawing No.	Sheet No.	Title
(	3	18/00373-01	1	Locality Plan, Schedules & Notes
	3	18(00373-02	2	Detail Plan - Sheet 1
٦	3	1 <mark>8/</mark> 00373-03	3	Detail Plan - Sheet 2
	1	18/00373-04	4	Long Sections - Sheet 1
	2	18/00373-05	5	Long Sections - Sheet 2
	2	18/00373-06	6	Long Sections - Sheet 3
	3	18/00373-07	7	Long Sections - Sheet 4
1	3	18/00373-08	8	Long Sections - Sheet 5
	1	18/00373-09	9	Construction Details
	1	18/00373-10	10	Backfill Specifications



### **WARNING**

BEWARE OF UNDERGROUND / OVERHEAD SERVICES THE LOCATION OF UNDERGROUND / OVERHEAD SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE, NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

### **General Notes:**

- Only contractors accredited by City West Water to SC1 and SC7 shall be eligible to construct these works.
- 2. Only products approved and catalogued by the Water Agency shall 23. All existing sewers must be plugged to stop gas emissions prior to
- Works must be to constructed according to the WSA Sewerage code of Australia WSA 02-2014-3.1
- 4. The design consultant is responsible for the design and coordination of the works. Any problem arising during construction 25. The contractor is not permitted to break into an existing live shall be directed to the consultant.

### Survey, Set Out and Asset Recording

- All contours and levels are in metres to the Australian height datum
- 6. All co-ordinates shown are to map grid of Australia (MGA).
- Chainages shown on detail plans are discontinuous at access chambers. Chainages shown on long section sheets are continuous.
- 8. Coordinates are to sewer line intersection point unless otherwise shown
- Before commencement of work, the contractor must complete a level check between all TBM's to verify level values.
- TBM's and control points are to be maintained and protected at all times during construction.

### Should any marks be disturbed, the contractor will immediately notify the consultant to arrange re-instatement at the contractors expense.

## **Property Connections**

- 11. Number of lots to be sewered: 102 lots
- 12. Properties requiring boundary traps are indicated in the detailed plans. The remainder do not require boundary traps.
- 13. Branch tie distance shown on detail plan are from approved subdivision survey pegs. Branch ties for future lots are shown as a chainage. (Ch) Distance is from the downstream sewer structure.
- 14. Invert level of the property connection point is shown opposite the branch position.
- 15. Where a Spur Branch connects to a shaft, both property connections are considered to be shaft connections

# **Earthworks and Retaining Walls:**

- 15. In areas subject to earthworks, construction of sewers shall not commence until earthworks has been completed unless written approval has been given by the Water Authority.
- 16. Assumed that ground level behind retaining wall is to the top of the retaining wall. FSL quoted is the level of the ground on the low side of the retaining wall.

### Embedment

17. Embedment shall be Type A (refer MRWA-S-202) unless otherwise specified on the long section.

- 18. Selection and compaction of trench backfill material shall be in accordance with the Water Agency adopted version of MRWA specification no 04-03,
- 19. Refer to Long Section drawings for backfill requirements.

### **Compaction Testing**

- 20. Test results shall be provided to the superintendent prior to practical completion / acceptance of works.
- 21. The contractor is required to undertake all testing of fill compaction in accordance with MRWA Backfill Specification 04-03.2.

### Work on Live Sewers:

- 22. All works on live sewers must be carried out by a water company accredited contractor.
- any connections being made to these sewers.
- 24. To enable connections to live assets or any work on live assets, the contractor shall submit the appropriate forms to the superintendent at least 3 working days prior to any works on live sewers.
- pipeline, enter a live sewer or remove the cover to a live maintenance structure unless authorised by the water company.

26. Prior to commencement of works on site, the contractor must ensure that all matters relating to the Occupational Health and Safety Act 2004 and Occupational Health and Safety regulations 2007, have been and will be complied with.

27. The contractor is to give a minimum of two (2) days notice to the superintendent and water agency prior to the testing being undertaken. Testing is to be undertaken in the presence of superintendent.

### **Environmental Management Plan:**

- 29. On commencement of construction works the contractor must comply with the recommendations of the EPA publication "construction techniques for sediment pollution control" (publication
- 30. Prior to the commencment of work the contractor shall submit a site environmental management plan to Melbourne Water if any Melbourne Water assets or water ways are involved in the works.
- 31. All trees and vegetation are to be protected unless otherwise indicated for removal.
  - The extent of any vegetation removal shall be confirmed on site with the superintendent and local council prior to commencement, and in accordance with any planning permits. Any removal shall be documented.
- 32. All areas containing creek vegetation, trees and revegetated areas near the construction zone are to be fenced off during the works with secure and highly visible material such as para-webbing
- 33. Ensure all machinery, equipment and/or footwear entering the site is weed and pathogen free.

### Schedule 6: Water Seals, Boundary traps and Syphons

Structure Type	Boundary Trap	Water Seals	Syphons		
Quantity	-	-	-		

### Schedule 1: New Pipe

Pipe Size	Pipe Type	Length (m)	Pipe Class	Standard
DN100	UPVC-DWV	42	SN10	WSA PS 230
DN150	UPVC-DWV	1139	SN8	WSA PS 230
DN225	UPVC-DWV	376	SN8	WSA PS 230

### **Schedule 2: Property Connections**

Connection Type	Type 1a	Type 1b	Type 2	Type 4a	Type 4b	Type S	Type 4S	Type B	Type 4B		Up Flexible ngs, ie: "F"
Quantities	-	25	48	-	-	5	-	12	- (	11	)

### Schedule 3: Service Offsets and Locations:

Street		Gas		Water		NDW		Comms		Elec		Lighting	
BARRABOOL BOULEVARD (SOUTH OF ROUNDABOUT)	W	2.10	W	3.25	W	2.50	Ε	2.73	Ε	3.60	0.80*	вок	
BARRABOOL BOULEVARD (NORTH OF ROUNDABOUT)	w	2.10	w	3.25	W	2.50	Ε	1.73	Е	2.60	0.80*	вок	
PLANE AVENUE	S	2.25	S	3.65	S	2.90	N	1.73	N	2.60	0.80*	вок	
COURSE STREET	N	2.10	N	2.95	N	2.50	S	1.73	S	2.60	0.80*	вок	
SHALLOW STREET	w	2.10	w	2.95	W	2.50	S	1.73	Е	2.60	0.80*	вок	
SEDGE STREET	E	2.10	E	2.95	E	2.50	W	1.73	W	2.60	0.80*	вок	
YARD STREET	N	2.10	N	2.95	N	2.50	S	1.73	S	2.60	0.80*	вок	
FLOW STREET	w	2.10	W	2.95	W	2.50	E	1.73	Е	2.60	0.80*	вок	
WEBB STREET	w	2.10	w	3.00	W	2.50	Е	1.73	Е	2.60	0.80*	вок	
GLOVER STREET	w	2.10	W	2.95	W	2.50	Ε	1.73	Е	2.60	0.80*	BOK	

# Schedule 4: Maintenance Structures (other than Maintenance Holes)

Inspection Shafts (IS), Maintenance Shafts (MS) and Maintenance Chambers (MC):

Maintenance Structure ID	Type - (IS/MS/MC)	Cover Class	Depth to Invert (mm)	Shaft Connections	Comments/ References (Offsets/Details)
3-2MS	MS	В	1980	-	-
3-3MS	MS	В	1190	-	-
3-4MS	MS	В	1680	-	-
3-5MS	MS	В	1330	-	-
3-5IS	IS	В	1270	-	-
3-6IS	IS	В	1100	-	-
3-7MS	MS	В	1700	-	
3-8MS	MS	В	1670	-	-
3-9MS	MS	В	1960	-	-
3-10MS	MS	В	2000	-	-
3-11MS	MS	В	2680	-	-
3-12MS	MS	В	2470	-	-
3-12IS	IS	В	1090	-	-
3-13MS	MS	В	2610	2 x DN100	
3-14MS	MS	В	1800	-	-
3-15MS	MS	В	1870	1 x DN100	-
3-15IS	IS	В	1160	-	-
3-16MS	MS	В	2530	1 x DN100	-
3-17MS	MS	В	1690	-	-
3-17IS	IS	В	1080	-	-
3-20MC	MC	В	3640	-	-
3-22MS	MS	В	2710	1 x DN100	-
3-24MS	MS	В	1930	-	-

### Schedule 5: Maintenance Hole Details

Maintenance Hole ID	MH Shaft Type (GRP/PP (Plastic)	MH Top Type (Conical/Flat)	Cover Class	Internal Diameter	Min. Wall Thickness	Depth to Invert	Drops		Corrosion Protection (Coating / PE or PVC	Shaft Re-inforcement	Comments (Offsets / Details)			
TIOIO ID	/ Concrete)	(Comodin lat)	Oluss	(mm)	(mm)	(mm)		Landing (Ld)		Tto imorodinone	(Onocio / Detailo)			
3-1	Approved Product	Flat Top	В	1050	150	2430	-	S	None	-	-			
3-6	Approved Product	Flat Top	В	1050	150	2740	2 x DN150	S	None	-	-			
3-8	Approved Product	Flat Top	В	1050	150	3020	1 x DN100	S	None	-	-			
3-21	Approved Product	Flat Top	В	1050	150	3310	-	S	None	-	-			
3-23	Approved Product	Flat Top	В	1050	150	2200	1 x DN150	Ś	None	-	-			

3	SCHEDULE 2, 5 & 8 UPDATED,	13-03-19	J KOEHLER					DESIGNED	R WEINBER	PROJECT	LND/18/00373
2	SCHEDULE 1, 2, 4, 5 & 8 UPDATED,	29-01-19	J KOEHLER						DATE: 22-08-18	I NUMBER	LND/16/003/3
	CONSTRUCTION DETAILS ADDED							DRAWN	D WEINBER	MELWAY	204 - E5
1	ISSUE TO CITY WEST WATER	30-11-18	J KOEHLER						D WEINBER DATE: 22-08-18	REFERENCE	204 - E3
0	CONSTRUCTION ISSUE	22-11-18	J KOEHLER					CHECKED	J KOEHLER	AUTHORISED	J KOEHLER
REV	DESCRIPTION	DATE	APPROVED	REV	DESCRIPTION	DATE	APPROVED		DATE: 29-11-18		DATE: 30-11-18







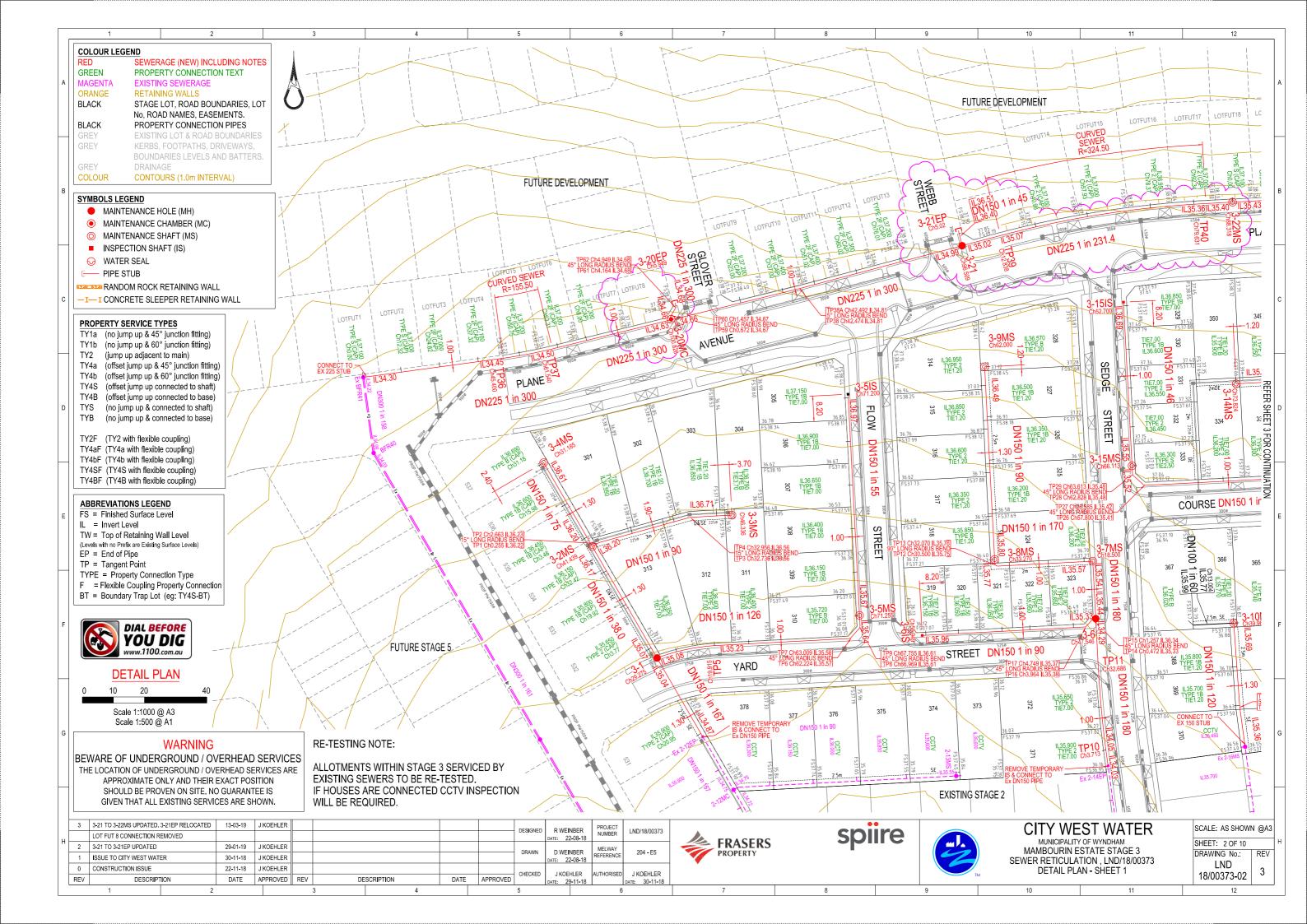
# **CITY WEST WATER**

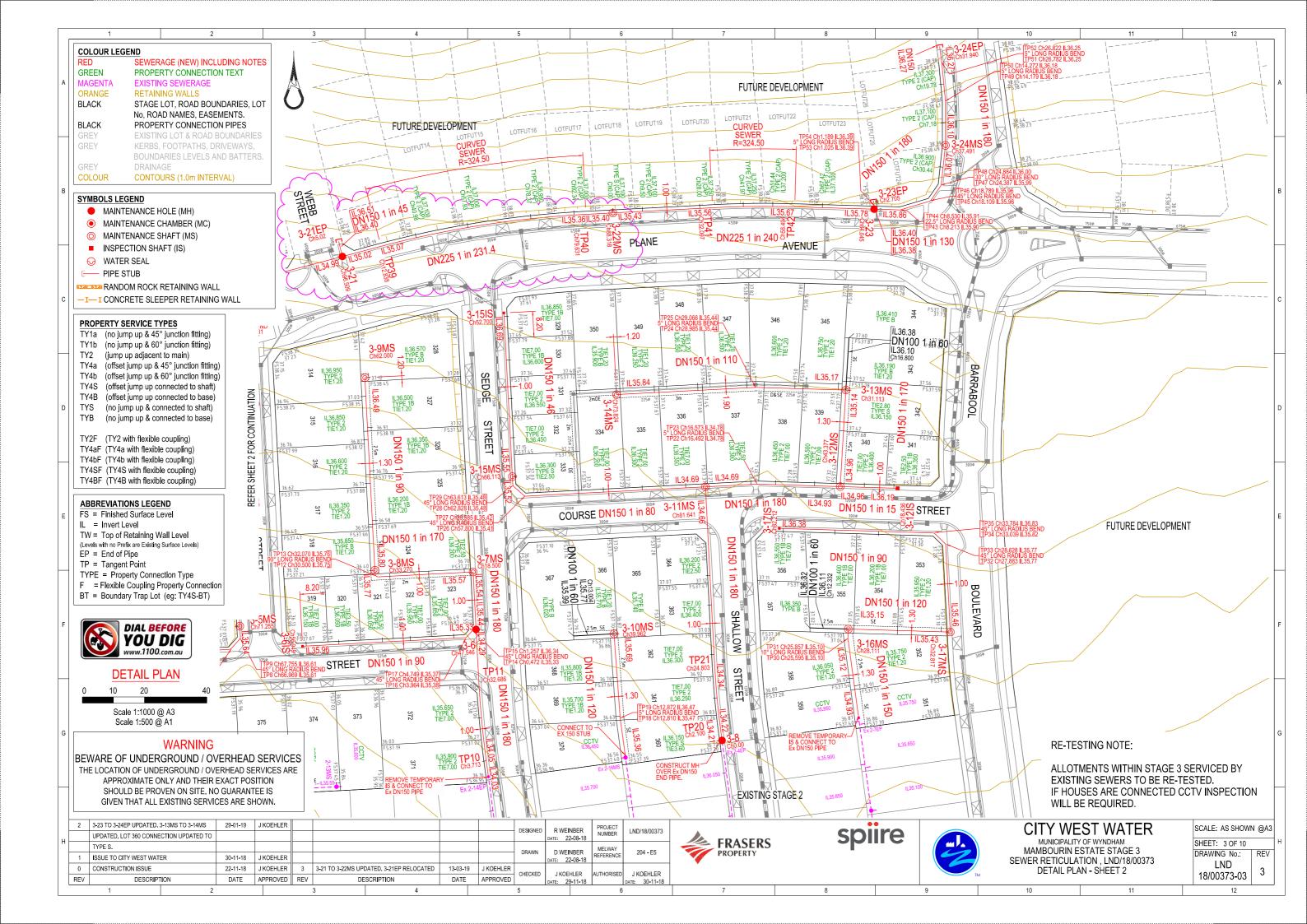
MUNICIPALITY OF WYNDHAM MAMBOURIN ESTATE STAGE 3 SEWER RETICULATION . LND/18/00373 NOTES, SCHEDULES & LOCALITY PLAN

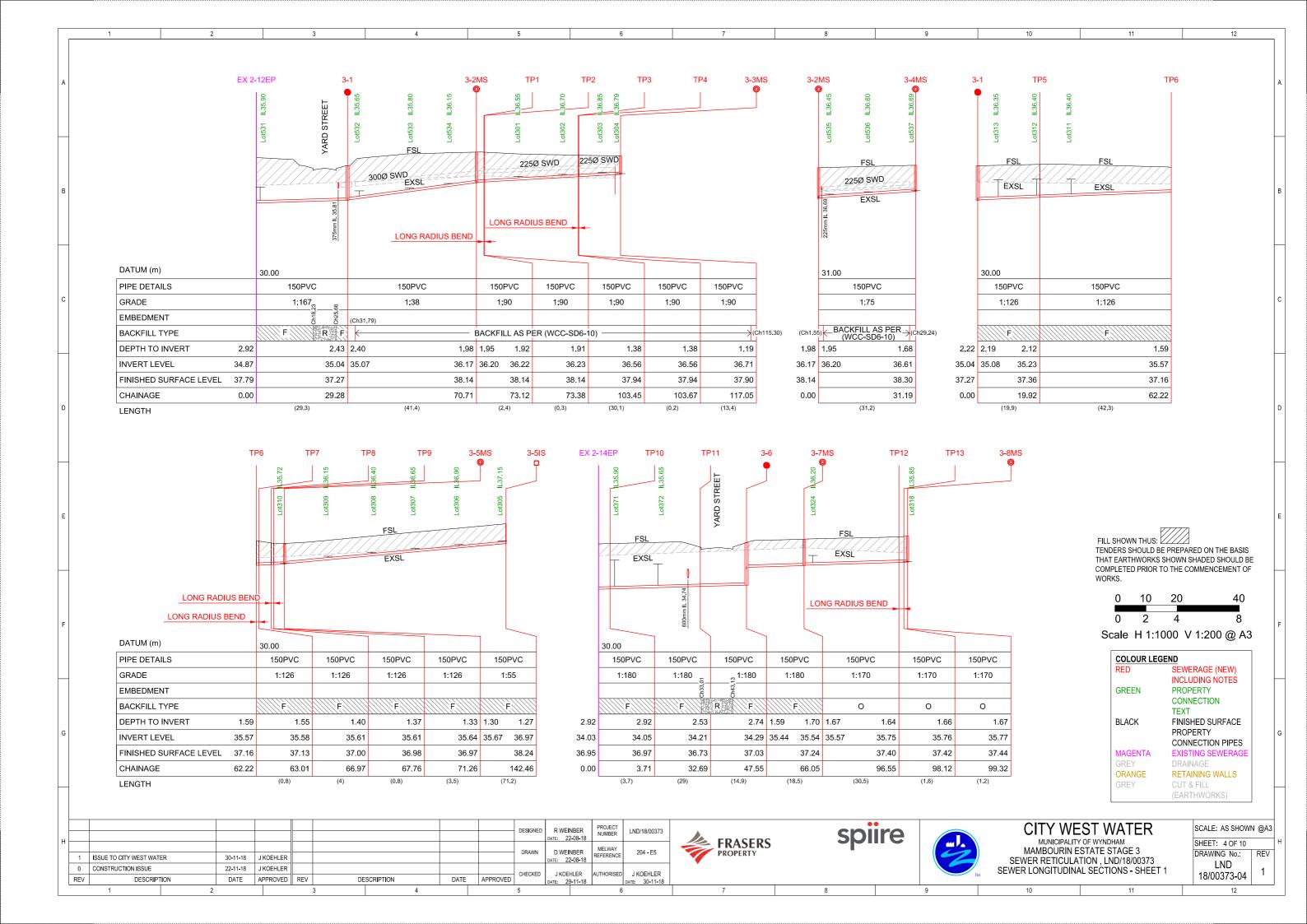
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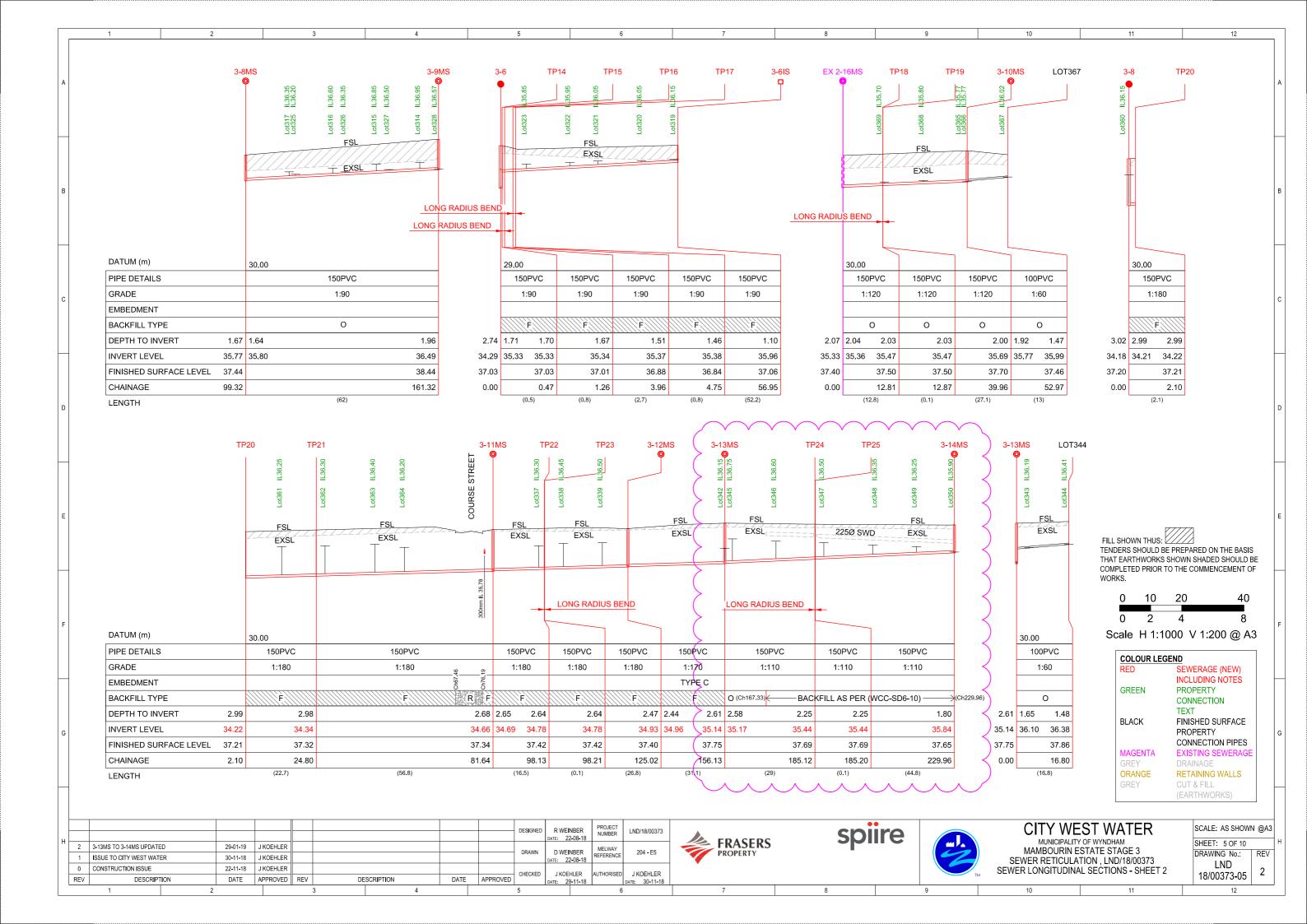
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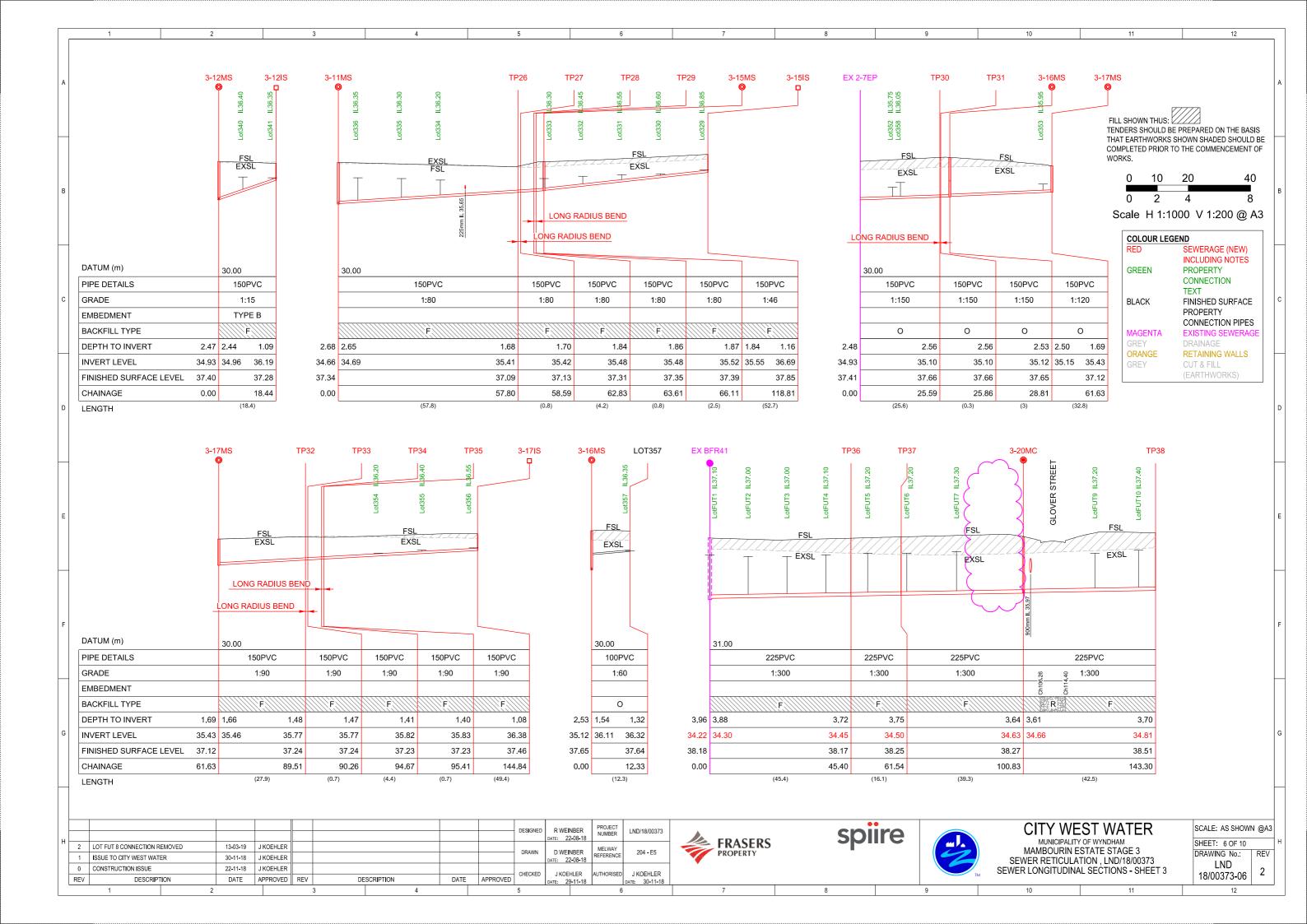
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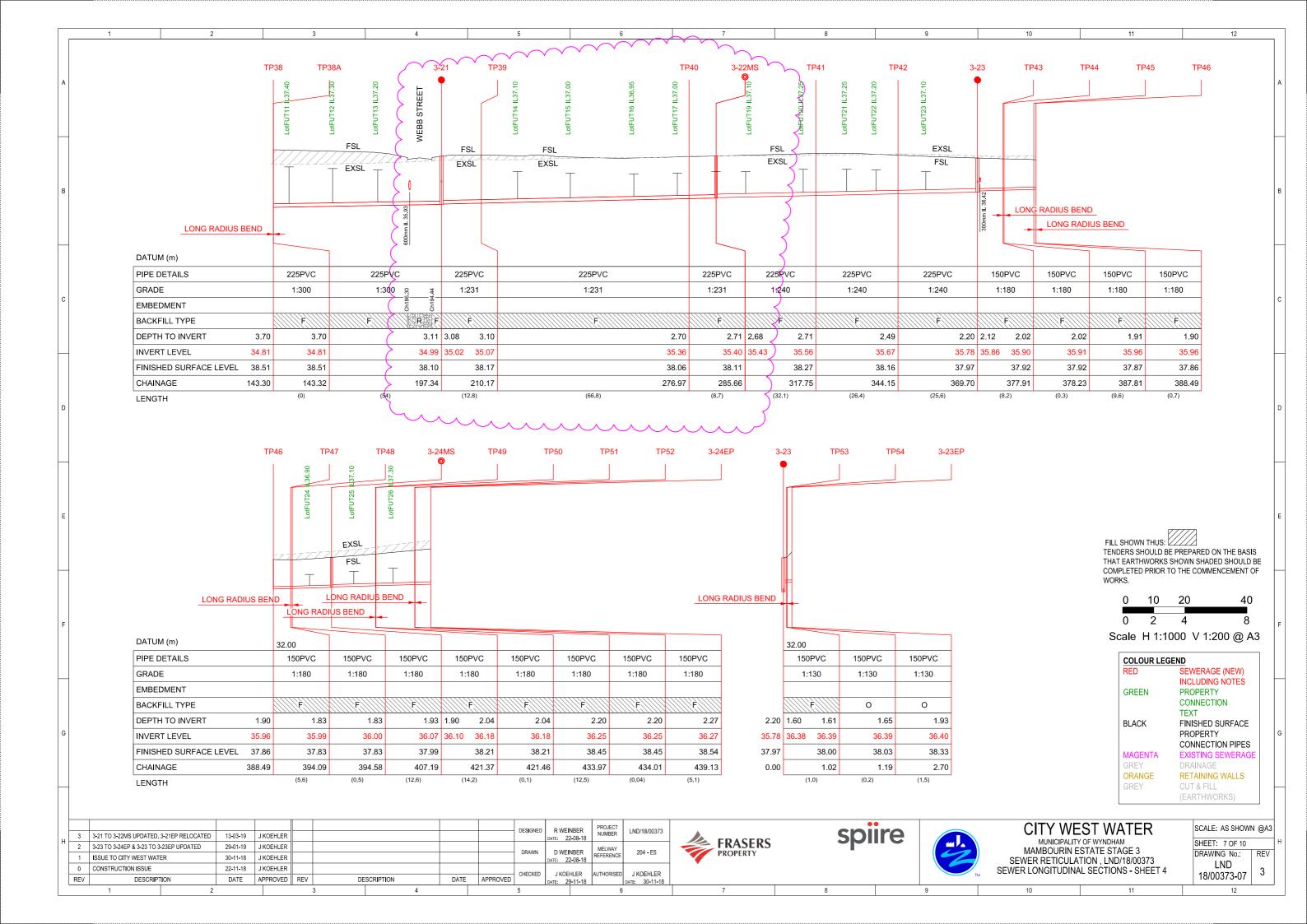


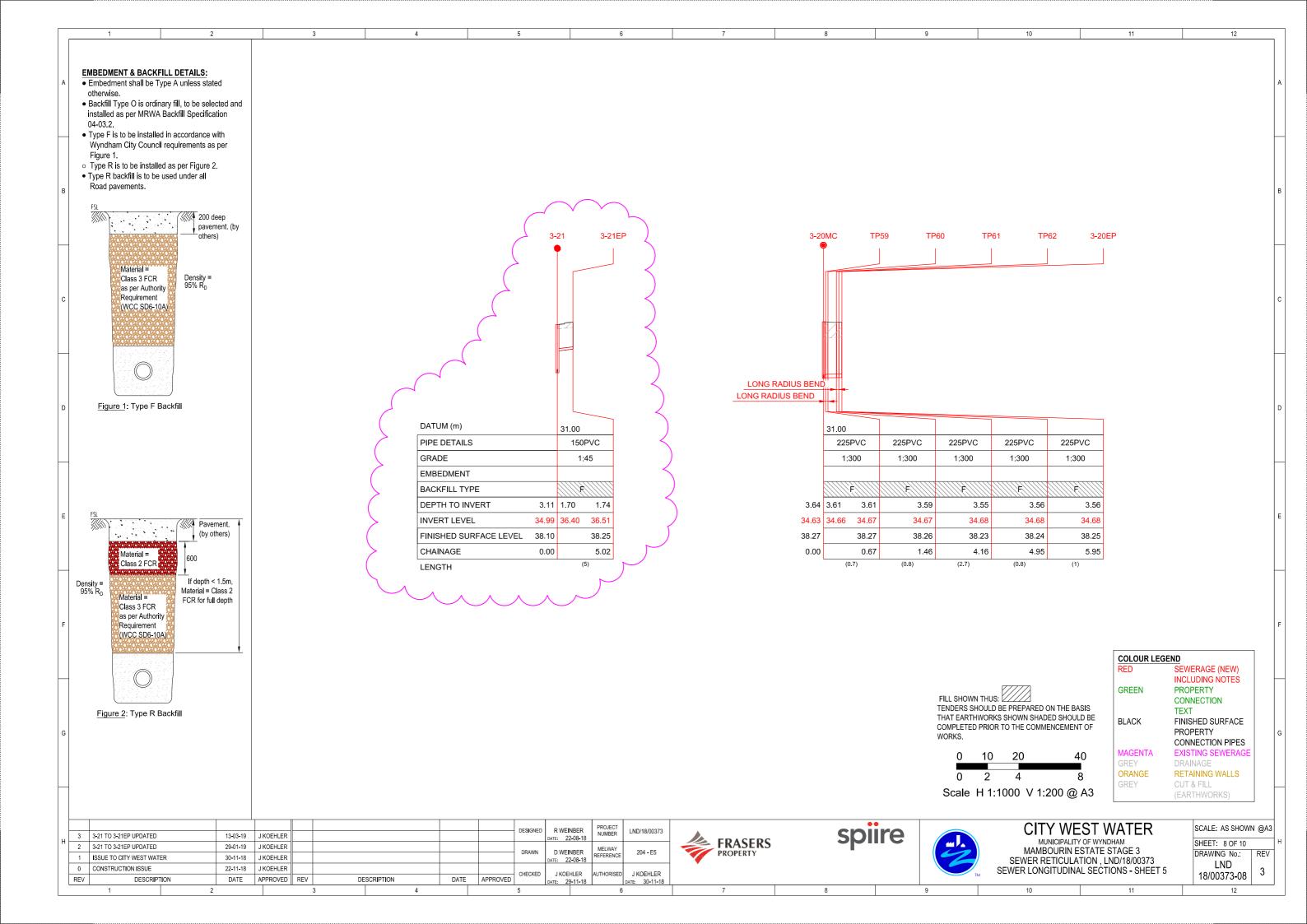


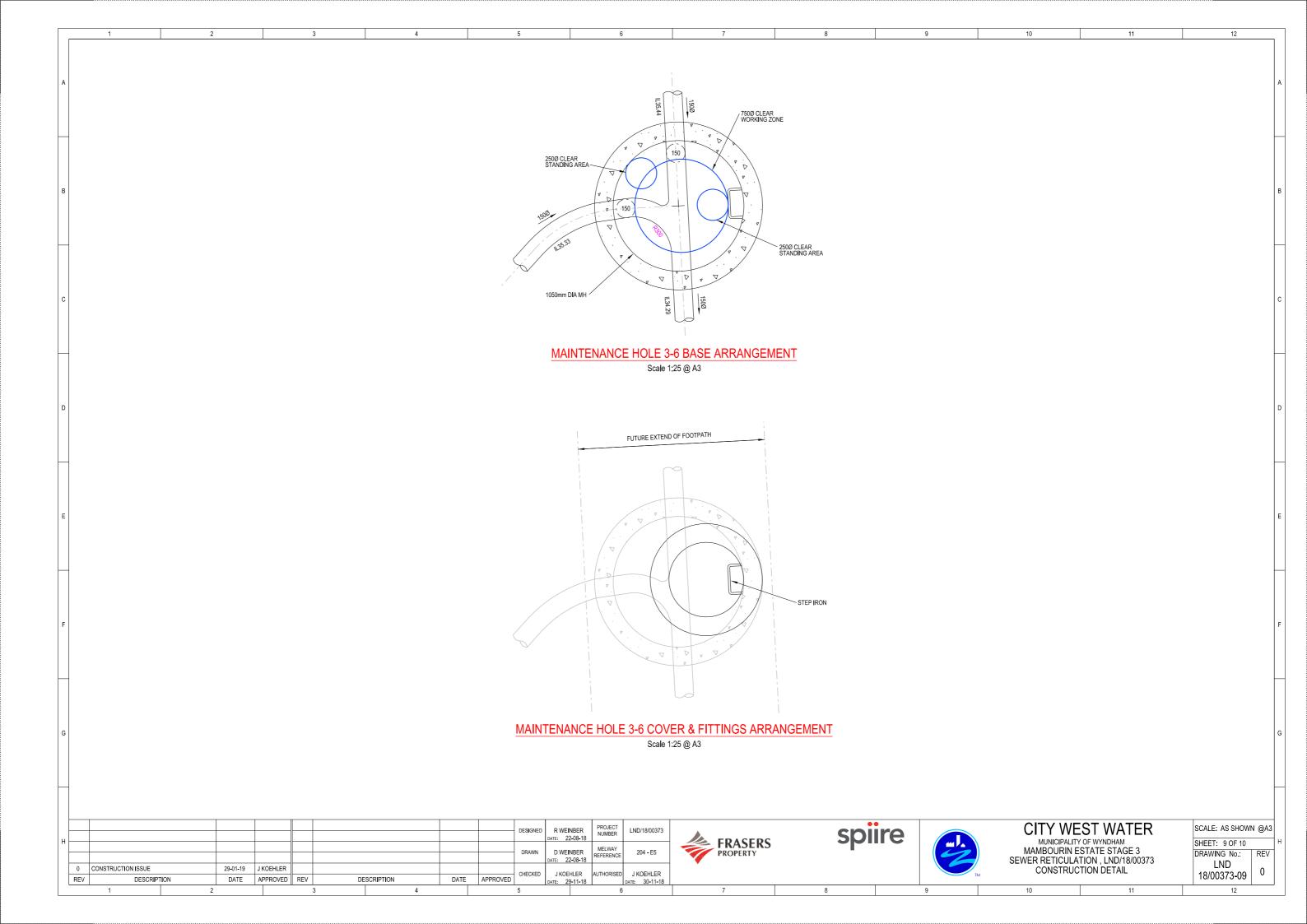












Residential Subdivision 974 Black Forest Road Wyndham Vale Geotechnical Investigation including Pavement Design, Fill Specification and Recommendations for Sewers, Retaining Walls and Wetlands
Our Reference: R6626

# Appendix B – Backfill Specification for Non-Trafficked Areas

Backfill Specification for Non-Trafficked Areas	Sand/Silt Backfill	Clay Backfill	Select Material
Depth of layer from the surface (m), D	Use where sands/silts are encountered.	Use where clays are encountered.	Imported granular materials
Optimum Backfill Material Description		Site or locally derived high to medium plastic clays (CH/CI) (this layer should match the adjacent soil profile)	Consideration could be given to granular materials (e.g. capping layer) in consultation with the superintendent. Imported granular materials should comply with CBR ≥ 15.0%, Swell<1.5%, Permeability≤ 1E-9 m/s
Backfill Material Requirements	2- Material free from organic or other deleterious material. 3- Particle size for rock not greater than 20 mm or for other than	2- Material free from organic or other deleterious material.  2- Particle size for rock not greater than 20 mm or for other than	1- Material free from organic or other deleterious material. 2- Particle size for rock not greater than 20 mm or for other than rock not greater than 75 mm. (Refer AS 2566.2-2002.)
Section C2 of AS 2870-2011	Sites located within the sewer alignment are considered to be Class P due to fill.	Sites located within the sewer alignment are considered to be Class P due to fill.	Sites located within the sewer alignment are considered to be Class P due to fill.
High Risk Factors Likely to be Found	1-Silty sands/silts may be susceptible to a seasonal or perched water table above the underlying clay horizon which may cause soil weakening.  2-Should water seepages be encountered during construction it is likely to cause construction difficulties (including trench collapse).		2- Should water seepages be encountered during construction it is likely to cause construction difficulties (including trench collapse).
Risk Controls Required		1-Moisture conditioning is important in order to keep the moisture within limits.  2-Large sized chunks of clay (i.e. greater than 75mm) should not be used as backfill. Oversized materials should be broken up and sieved prior to use as backfill  3-Shoring is anticipated to be required for soft and/or wet soils  4-Geotechnical supervision on site will minimise the risks	1-Geotechnical supervision on site will minimise the risks 2-Shoring is anticipated to be required for soft and/or wet soils
Compaction Machine	Smooth drum roller/Vibrating Plate/Vibro-tamper	Excavator	Excavator/Vibrating Plate/Vibro-tamper
Compaction Type	Static and/or dynamic	Pad foot roller	Static and/or dynamic
Compaction Weight of compaction machine (kg)	60 to 580 (actual weight to be advised by contractor)	30000 (actual weight to be advised by contractor)	60 to 580 (actual weight to be advised by contractor)
Number of Passes per Layer	3 to 16 depending on compaction machine (a trial section to evaluate the optimum number is recommended)	greater than 6 (a trial section to evaluate the optimum number is recommended)	3 to 16 depending on compaction machine (a trial section to evaluate the optimum number is recommended)
Loose Layer Thickness (mm)	75 to 200 depending on compaction machine (a trial section to evaluate the optimum number is recommended)	less than 200 (a trial section to evaluate the optimum number is recommended)	75 to 200 depending on compaction machine (a trial section to evaluate the optimum number is recommended)
Moisture Limits	Between 85% to 115% of SOMC	Between 85% to 115% of SOMC	-
Minimum Backfill SDDR	95% (minimum)	95% (minimum)	-
Test frequency	1 test per two layers per 40m length	1 test per two layers per 40m length	
Max time to stockpile (dry & temp b/w 20 & 30 degrees C)	7 days	2 days	-
Max time to stockpile (dry & temp > 30 degrees C)	3 days	1 day	-
Notes:  The specifications provided within MRWA "Specification	No 04-03.2" should be followed for trafficked areas and non-trafficke	ed areas where the backfill is less than 1.5 m depth or the excavated m	aterial is not clay.

Backfill in trafficable areas shall be completed in accordance with the road owner's requirements. Where the road owner's requirements are non-existent, unclear or significantly less stringent than section 3 of MRWA "Specification No 04-03.2"; the requirements of section 3 of MRWA "Specification No 04-03.2" shall be met (i.e. Class 2 backfill (95% SDDR) for backfills up to 1.5 m depth and 600 mm of Class 2 backfill (95% SDDR) over Class 4 (95% SDDR) for backfills greater than 1.5 m depth).

Site Geotechnical Pty Ltd

									DESIGNED	R WEINBER	PROJECT	LND (40/00070
ш										DATE: 22-08-18	NUMBER	LND/18/00373
п									DRAWN	D WEINBER	MELWAY	204 - E5
	1	ISSUE TO CITY WEST WATER	30-11-18	J KOEHLER						DATE: 22-08-18	REFERENCE	Z04 - E3
	0	CONSTRUCTION ISSUE	22-11-18	J KOEHLER					CHECKED	J KOEHLER	AUTHORISED	J KOEHLER
	REV	DESCRIPTION	DATE	APPROVED	REV	DESCRIPTION	DATE	APPROVED		DATE: 29-11-18	AUTHORISED	DATE: 30-11-18







CITY WEST WATER MUNICIPALITY OF WYNDHAM MAMBOURIN ESTATE STAGE 3
SEWER RETICULATION , LND/18/00373
BACKFILL SPECIFICATIONS

SCALE: AS SHOWN @A3 SHEET: 10 OF 10

DRAWING No.: LND 18/00373-10