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GENERAL NOTES:

- 1. Only contractor accredited by City West Water to WC1 shall be eligible to construct these works.
- 2. Only products approved and catalogued by the Water Agency shall be used.
- 3. Works must be constructed according to WSA 03-2011-3.1 MRWA edition. The Contractor shall ensure that they are conversant with all current revisions, amendments and updates that the relevant Water Agency has made to their standards
- 4. DW assets shall only be constructed after deeper assets affecting the water mains have been constructed (eg: sewerage & drainage assets).
- 5. This design is to be read in conjunction with road and drainage plans.
- 6. The Contractor shall obtain a road opening permit for any works within the road reserve and comply with all requirements of the road owner. SURVEY, SET OUT AND ASSET RECORDING
- 7. Temporary Bench Marks (TBM) for the set out of works to the Australian Height Datum (AHD) are provided in the design drawings.
- 8. All levels are in metres to AHD. 9. All co-ordinates are in metres to the Map Grid of Australia
- (MGA 55-94).
- 10. The Contractor is directly responsible for ensuring the project set out is consistent with the design. Should actual site conditions conflict in any way with that documented, the Contractor shall contact the Superintendent for clarification before proceeding.
- 11. Where not allowed for in the Contract, the Contractor is to engage a suitably qualified and experienced Surveyor to undertake asset recording of the work. All surveyor works and data recording shall be
- undertaken in accordance with the MRWA survey manual. 12. All specific pipe materials (eg: PVC-O) shall be indicated in the
- As Constructed information PRODUCTS AND MATERIALS (REFER TABLES 1 & 2)

13. DW and NDW system components shall be identified as per section 4.2 of WSA03-2011-3.1 MRWA edition.

- APPURTENANCES (FITTINGS-REFER TABLE 3)
- 14. Refer to MRWA-W-300 series for valves and hydrants surrounds, covers, surface marking and arrangements.

WATER MAIN ALIGNMENT, TRENCHING & COVER (REFER TABLE 5) 15. Offsets of mains from property boundaries shall be; min 600mm

- (mains < DN100) and min 1m (mains >/ DN100). 16. All water mains shall pass over drains and sewers unless shown
- otherwise in the design drawings. EMBEDMENT
- 17. Embedment shall be type A (refer MRWA-W-203), unless otherwise specified on Face Plan,

BACKELL

- 18. Trafficable backfill shall be completed as per MRWA-W-201 and the current version of MRWA Backfill Specification No. 04-03.2. Unless higher standards are required from road authority. The contractor is required to obtain written confirmation of the
- Road Authorities acceptance of the proposed backfill.
- 19. Non-Trafficable backfill shall be completed as per MRWA-W-201 and the current version of MRWA Backfill Specification No. 04-03.2.

THRUST RESTRAINT (REFER TABLE 6)

20. Thrust restraints have been designed on the basis of the AHBP (ground strength) nominated in TABLE 6. The Contractor shall confirm the actual ground conditions and discuss with the superintendent any ground conditions which are found to be different to that nominated. The AHBP of the ground used in calculating each thrust restraint is 50kPa PROPERTY SERVICES

21, NDW property services are specified, they shall always be location on the left of the DW property service as you look from the road to the front of the property.

TABLE 8: Minimum Cover Requirements As Per MRWA-W-202

LOCATION	REQUIRED COVER (mm)
FOOTWAY	450
CARRIAGEWAY, MINOR/SECONDARY ROADS	600

CONNECTIONS (ALL TYPES)

22. All property service connections to new residential RRJ reticulation mains are to be completed using pretapped connectors. OTHER SERVICES (REFER TABLES 5 & 7)

23. To receive the most up to date information prior to

- construction, "Dial before you Dig" shall be undertaken to aid in the location of other services. Other services shall be carefully located prior to full excavation at the contractor's risk and cost. Any clashes of proposed new works with other assets shall be reported to the Superintendent immediately for clarification.
- 24. Clearances to other services shall be as per TABLE 7 and Table 5.5 of WSA03-2011-3.1 MRWA edition. These clearances shall apply to surface covers as well as underground assets.

EARTHWORKS AND RETAINING WALLS

25. In areas subject to earthworks, construction of water assets shall not commence until earthworks and retaining walls has been completed unless written approval has been given by Water Authority.

FESTING, ASSET ACCEPTANCE AND LIVE

CONNECTIONS

- 26. Post construction activities such as swabbing, water quality testing, pressure testing and chlorination shall be carried out in accordance with WSA03-2011-3.1 MRWA edition and the MRWA Water Quality Compliance Specification. All test results shall be documented and reported to the Superintendent
- 27 The Water Agency shall be notified in writing 2 full working days in advance of testing being undertaken,
- 28. Both ends of DW and NDW main to meter property services shall be inspected by Water Agency. The Water Agency shall be notified in writing 2 full working days in advance of this inspection being carried out. Both ends of DW-NDW main to meter property services are to remain exposed until inspected by the Water Agency compliance officer.
- 29, The Contractor's ITP shall include provision for each NDW connection to be signed-off as correctly installed.
- 30. The Water Agency shall be notified in writing 5 full working days in advance of connection to the live network being undertaken. Shut down work shall be a short as practical and scheduled to commence at 9am on working days with completion to occur no later than 4pm. In industrial and commercial areas the impact on business shall be considered and it may be necessary to carry out the work outside normal working hours.
- 31. Valves connecting new assets to the Water Agency's live system shall not be operated by the Contractor.

TABLE 2. Pipe Material Schedule

Material	Reference	Material	Reference
PVC-M	WSA-PS-209	PE (retic & submain)	WSA-PS-207
PVC-O	WSA-PS-210	PE (property services)	WSA-PS-215

TABLE 5. Service Alignment Schedule (offsets in m)

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Location	Wate	er	ND-W	ater	Gas	s (NBI	N	Ele	;	Pol	es
BARRABOOL BOULEVARD (SOUTH OF ROUNDABOUT)	3.25	W	2.50	W	2.10	W	3.50	Е	4.05	E	0.80*	BOK
BARRABOOL BOULEVARD (NORTH OF ROUNDABOUT)	3.25	W	2.50	W	2.10	Ŵ	1.85	E	2.60	Е	0 .80*	BOK
PLANE AVENUE	3.65	S	2.90	S	2.25	s	1.85	N	2.60	N <	0.80*	BOK
COURSE STREET	2.95	Ν	2.50	Ν	2.10	1	1.85	S	2.60	S	0 .80*	BOK
SHALLOW STREET	2.95	W	2.50	W	2.10	W	1.85	Е	2.40	E	0.80*	BOK
SEDGE STREET (NORTH OF COURSE STREET)	2.95	Е	2.50	E	2.10	f	1.85	W	2.60	W	0 .80*	BOK
SEDGE STREET (SOUTH OF COURSE STREET)	2.95	E	2.50	E	2.10	k	1.85	W	2.45	W	0.80*	BOK
YARD STREET	2.95	Ν	2.50	Ν	2.10	Ý	1.85	S	2.60	S	0.80 *	BOK
FLOW STREET	2.95	W	2.50	W	2.10	Ŵ	1.85	E	2.60	E	b .80*	BOK
WEBB STREET	3.00	W	2.50	W	2.10	W	1.85	E	2.60	E	0.80*	BOK
GLOVER STREET	2.95	W	2.50	W	2.10	W	1.85	E	2.60	F	0.80*	BOK
					-							

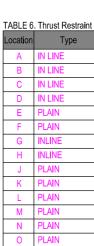
NOTE: a) * Indicates offsets from back of kerb where services do not run parallel to title boundary.

TABLE 7. Vertical Clearances

Existing or proposed Service	Minimum vertical clearance (mm)	Existing or proposed Service	Minimum v clearance
Water mains ≤ DN375	150	Electricity conduits and cables	225
Water mains >DN375	300	Stormwater drains & pits	150
Gas mains	150	Sewers - gravity	500
Teleco conduits and cables	150	Sewers - pressure & vacuum	300

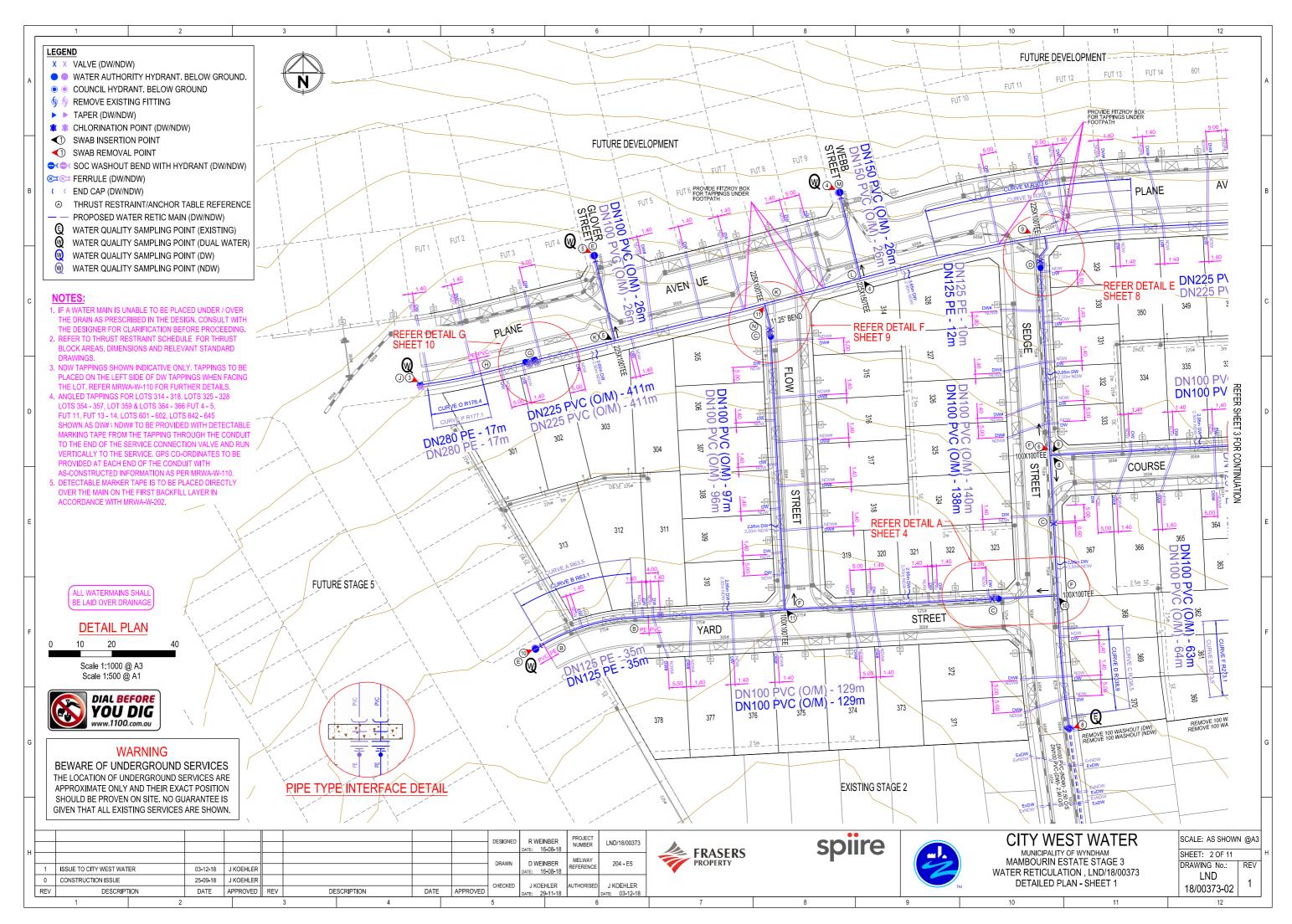
- Vertical clearance between water mains shall depend on the larger main diameter. - Water mains shall cross over sewers and drains unless shown otherwise.

	L	WELDING AND POU	RING CUNCRE	IE ANCHURA	AGE		- Maintain additional clearance from High Voltage electrical cables to allow for a protective barrier and marking.											
											DESIGNED	R WEINBER	PROJECT	LND/18/00373	A	cn		
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1"	2	SERVICE OFFSET TABLE U	PDATED	17-04-19	J KOEHLER						DRAWN	D WEINBER	MELWAY	. 204 - E5	PROPERTY			
	1	ISSUE TO CITY WEST WAT	ER	03-12-18	J KOEHLER							DATE: 16-06-1		204-15				
	0	CONSTRUCTION ISSUE		25-09-18	J KOEHLER						CHECKED	J KOEHLER	AUTHORISED					
	REV	DESCRIPT	ION	DATE	APPROVED	REV	DE	ESCRIPTION	DATE	APPROVED		DATE: 29-11-1		D J KOEHLER DATE: 03-12-18				
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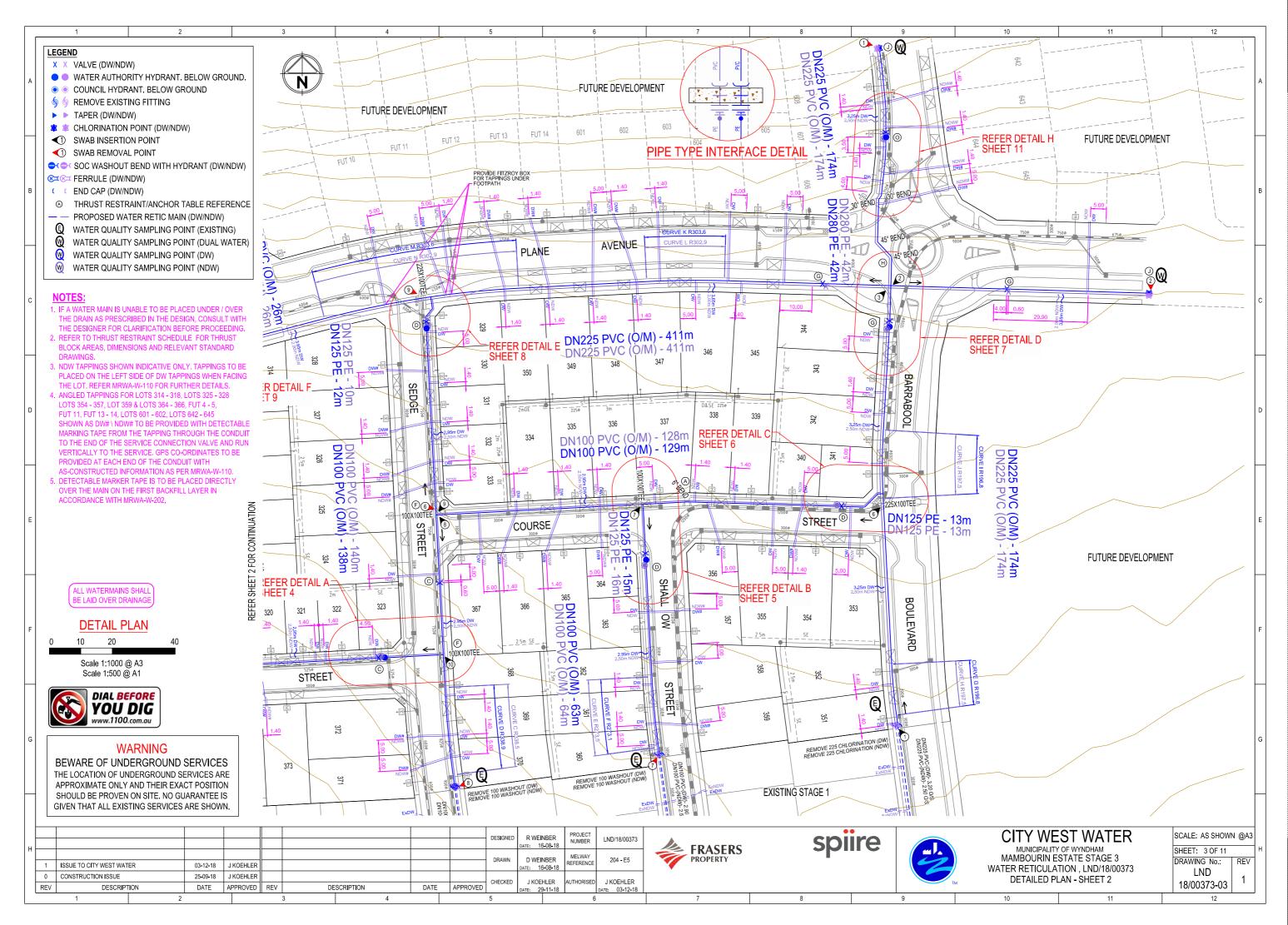


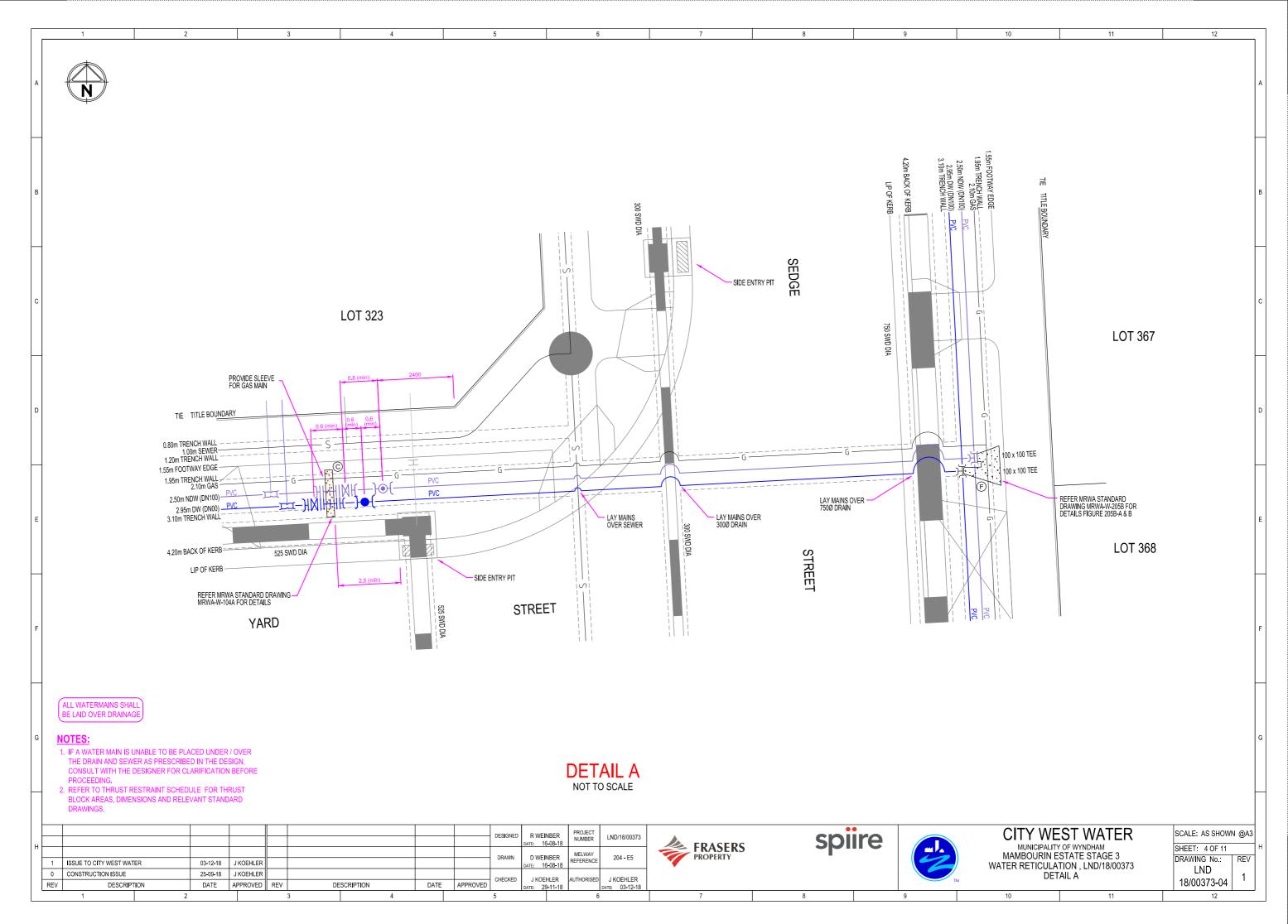
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New Work				Drinking Main	Non-Drinking Main		
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225	PVC-		PN16	585	585	-	
150	PVC-		PN16	26	26	-	
100	PVC	-O/M	PN16	582	584		
280	PE		PN16	59	59		
125	PE		PN16	75	74	-	
25 BLE 3. Hyd	PE drant & Washout :		PN16 nouts & operationa	Property Services al hydrants are Water			
ain Size	Fitting Type	Ownership	Location	Street		cation	
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)	HYDRANT	NDW - Counci	In Line	YARD STREET	3.00m W OF	SPLAY LOT 323	3
)	HYDRANT	NDW - Counci	In Line	YARD STREET	4.00m E OF	WBL LOT 311	1
)	HYDRANT	NDW - Counci	In Line	FLOW STREET	1.80m S OF	SPLAY LOT 305	5
)	HYDRANT	DW - CWW	In Line	FLOW STREET	2.40m S OF	SPLAY LOT 305	j
)	HYDRANT	NDW - Counci	In Line	SEDGE STREET	2.80m S OF	SPLAY LOT 329	,
)	HYDRANT	DW - CWW	In Line	SEDGE STREET	3.40m S OF	SPLAY LOT 329)
)	HYDRANT	NDW - Counci	In Line	SHALLOW STREE	T SPLAY LOT	364	
)	HYDRANT	DW - CWW	In Line	SHALLOW STREE	T SPLAY LOT	364	
)	HYDRANT	NDW - Counci	In Line	COURSE STREET	6.90m W OF	SPLAY LOT 34	1
5	HYDRANT	DW - CWW	In Line	BARRABOOL BLVI		SPLAY LOT 344	-
5	HYDRANT	NDW - Counci	In Line	BARRABOOL BLV		SPLAY LOT 344	ŀ
5	HYDRANT	DW - CWW	In Line	PLANE AVENUE		EBL LOT 304	
5	HYDRANT	NDW - Counci	In Line	PLANE AVENUE		EBL LOT 304	
5	HYDRANT	DW - CWW	In Line	PLANE AVENUE		EBL LOT 304	
5	HYDRANT	NDW - Counci		PLANE AVENUE		EBL LOT 304	_
5	HYDRANT	NDW - Counci		PLANE AVENUE	10m E OF W		-
5	HYDRANT	DW - CWW	In Line	PLANE AVENUE		WBL LOT 345	-
)	WASHOUTS	DW - CWW	End of Line	YARD STREET	YARD STRE		-
0	WASHOUTS	NDW - CWW	End of Line	YARD STREET	YARD STRE GLOVER ST		-
))	WASHOUTS	DW - CWW	End of Line End of Line	GLOVER STREET	GLOVER ST		-
)	WASHOUTS WASHOUTS	NDW - CWW DW - CWW	End of Line	RAIL AVENUE	RAIL AVENU		+
))	WASHOUTS	NDW - CWW	End of Line	RAIL AVENUE	RAIL AVENU		+
5	CHLORINATIO		End of Line	PLANE AVENUE	PLANE AVE	NUE WEST	1
5		N NDW - CWW	End of Line	PLANE AVENUE	PLANE AVE	NUE WEST	1
5	CHLORINATIO		End of Line	PLANE AVENUE	PLANE AVE		1
5	CHLORINATIO	N NDW - CWW	End of Line	PLANE AVENUE	PLANE AVE	NUE EAST	1
5	HYDRANT	DW - CWW	In Line	BARRABOOL BLVI	3.50m N OF	SBL LOT 607	
5	HYDRANT	NDW - CWW	In Line	BARRABOOL BLV	2 4.10m N OF	SBL LOT 607	
5	CHLORINATIO	N DW-CWW	End of Line	BARRABOOL BLV	D BARRABOO	L BLVD NORTH	
5	CHLORINATIO	N NDW - CWW	End of Line	BARRABOOL BLVI	D BARRABOO	L BLVD NORTH	
IEG Th	rust Restraint Sch	odulo					
ation	Type	Thrust		AHE	BP (kPa) Area (m²), or ED W(m) x Y(m)	Quantity	
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		X DN100 PE THE			50 1.04 (tot)	2	
		x DN100 VALVE			50 0.64 (tot)	3	
		2 x DN100 VALVE 2 x DN100 WASHC		,	50 1.39 (tot) 50 0.63 (tot)	3	
		2 x DN100 WASHC 2 x DN100 x DN10			50 0.63 (tot) 50 0.63 (tot)	2 3	
		x DN225 VALVES			50 2.85 (tot)	4	
H INL		x DN225 PE THE		GE	50 5.19 (tot)	2	
		X DN225 CHLOR	INATION		50 2.85 (tot)	3	
		x DN225 x DN10			50 1.64 (tot)	2	
-		2 x DN225 x DN15			50 2.85 (tot)	1	
		2 x DN150 WASHC 2 x DN100 11.25° E			50 1.01 (tot) 50 0.60 (tot)	1	
		x DN225 VALVES			50 6.92 (tot)	1	
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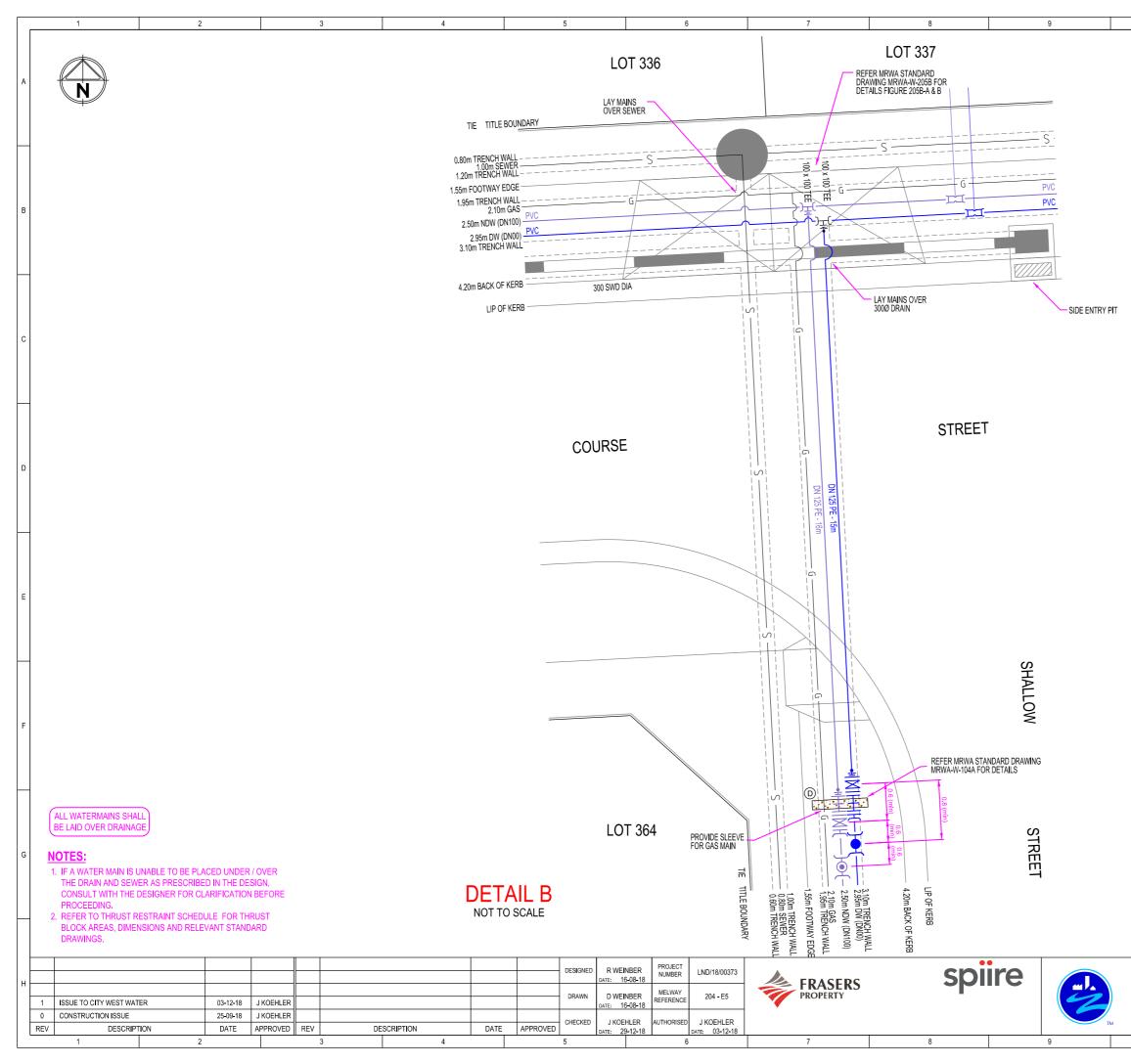
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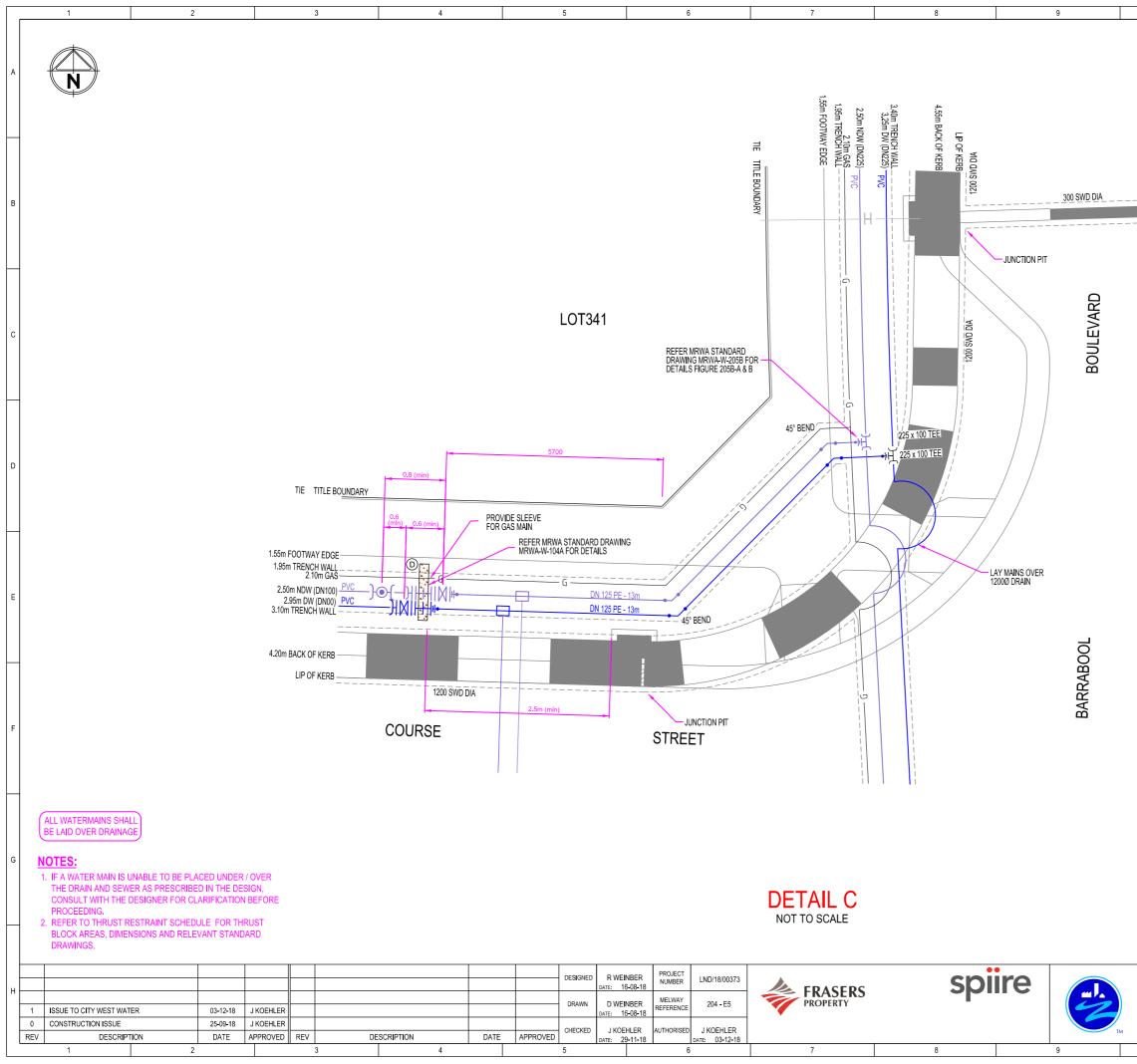








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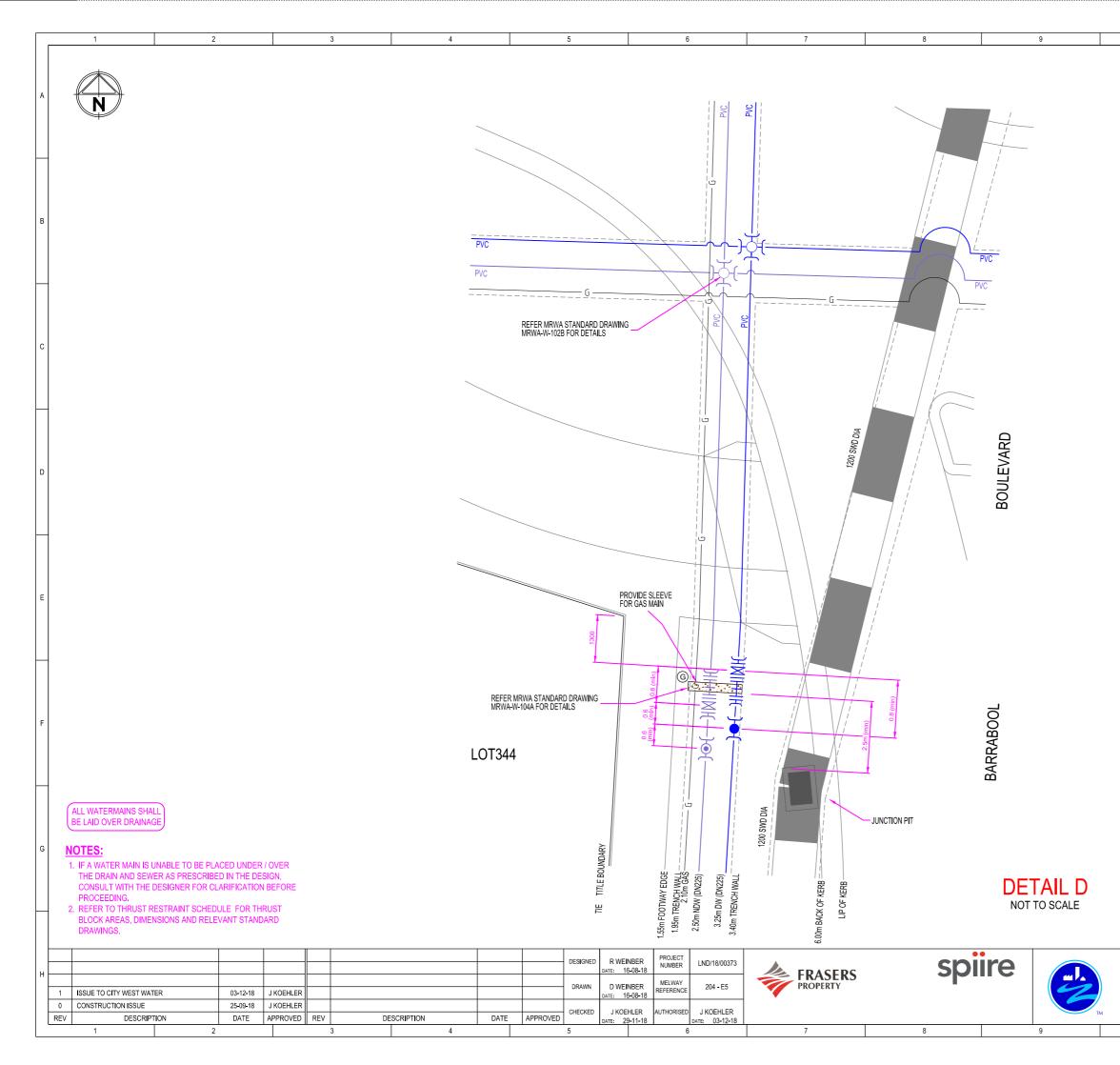


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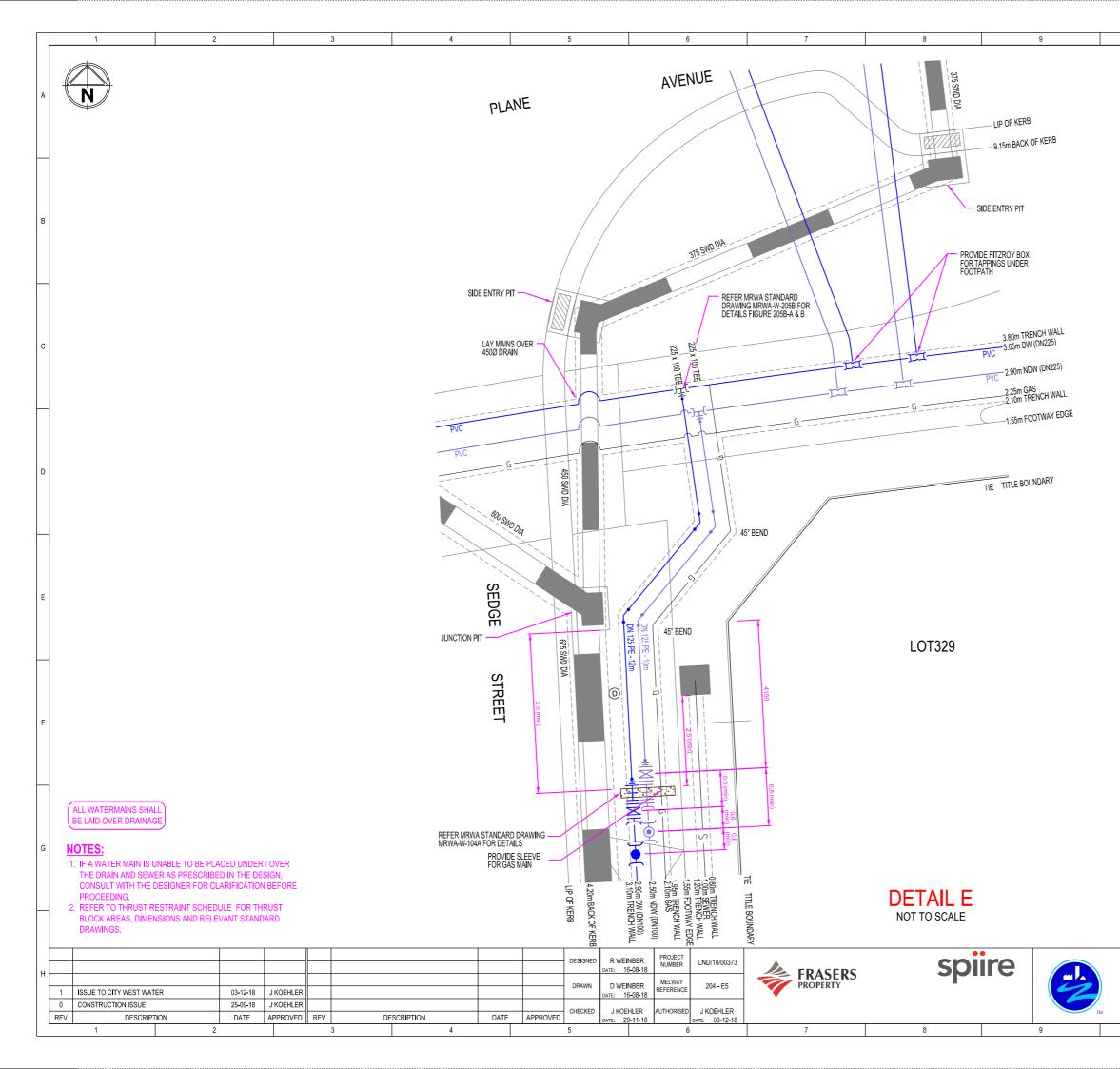
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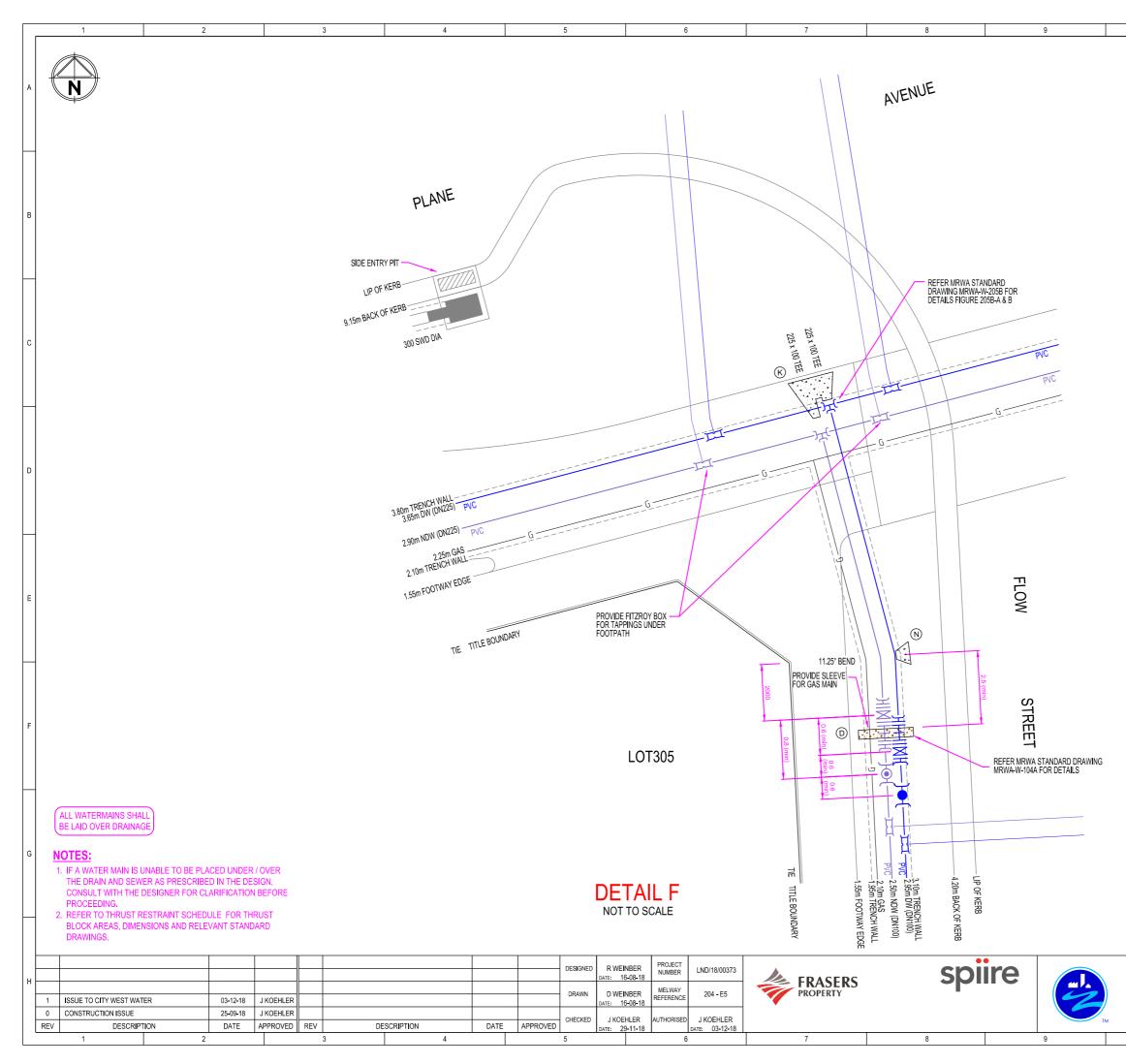
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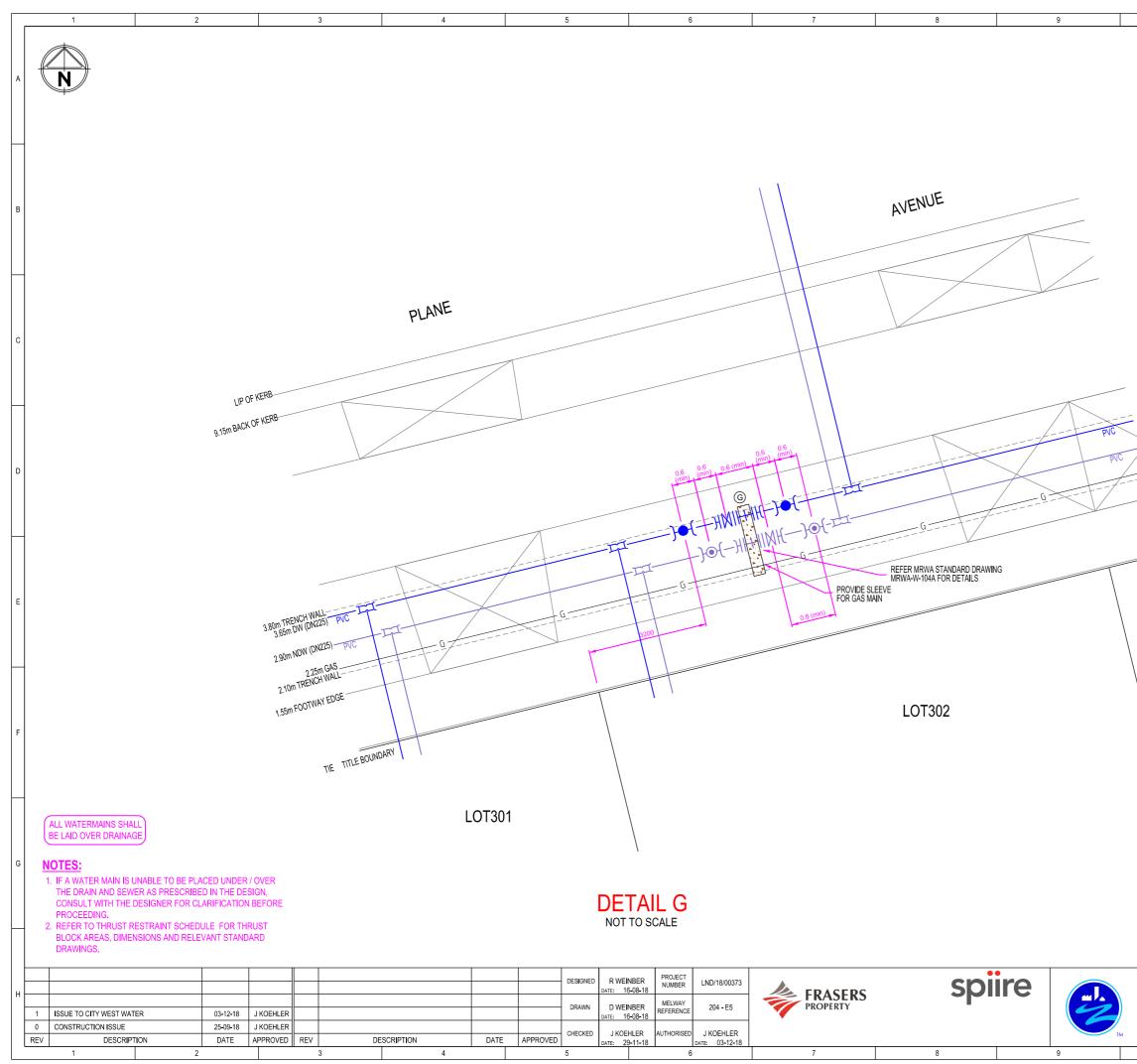
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