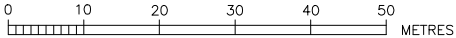
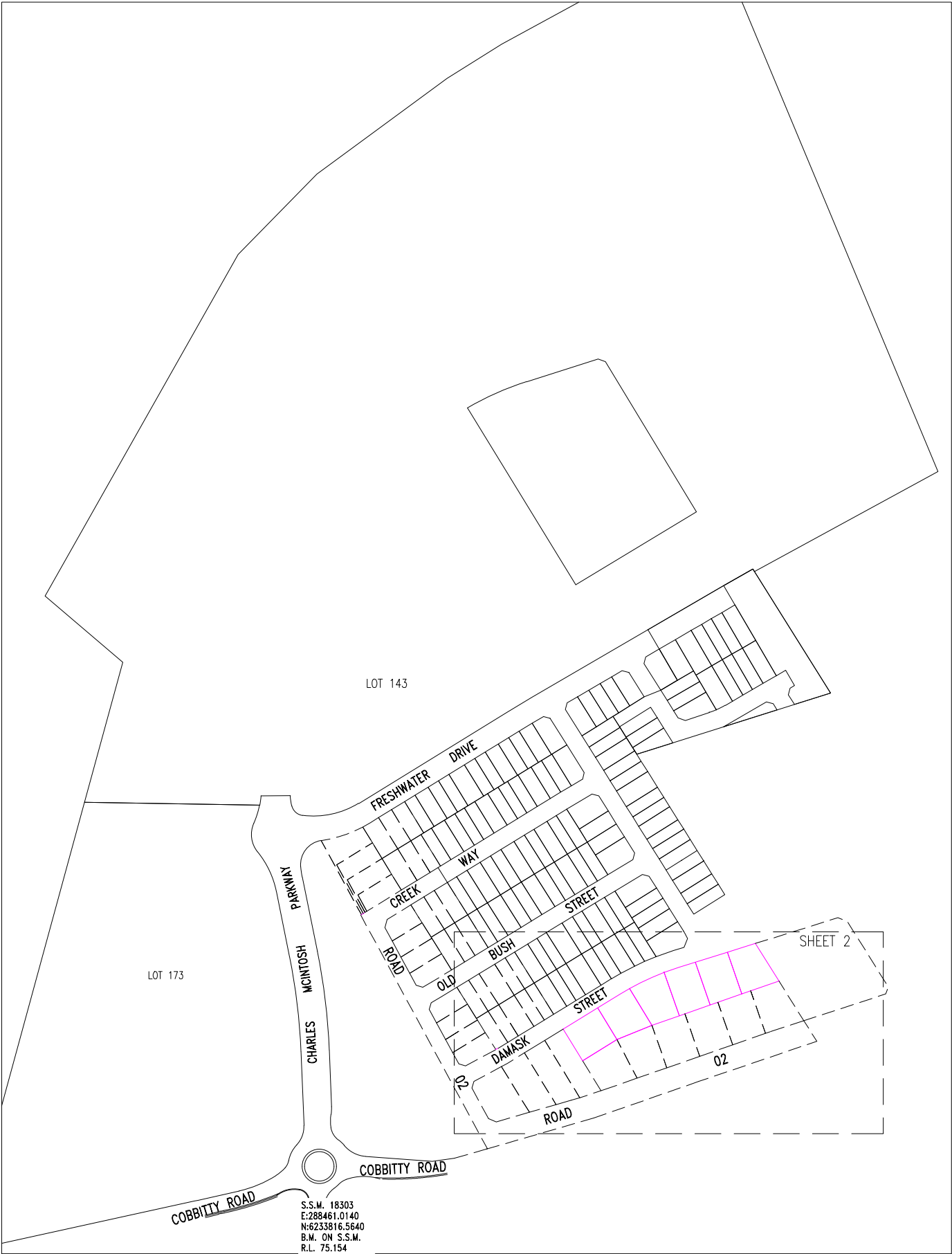


1. DESIGNER AND WSC:
ORION CONSULTING ENGINEERS PTY LTD
SUITE 4.04/12 Century Circuit, Norwest, NSW 2153
PH.: 02 8660 0035
www.theoriongroup.au

FOR: MIRVAC HOMES (NSW) PTY LTD
ADDRESS : LEVEL 28/200 GEORGE ST SYDNEY NSW 200
CONTACT : 0416 623 295
2. THE WORKS AND MATERIALS ARE IN ACCORDANCE WITH THE SYDNEY WATER TECHNICAL SPECIFICATION – CIVIL VERSION 11.0 AS WELL AS THE SEWERAGE CODE OF AUSTRALIA WSA 02–2002–2.2 SYDNEY WATER EDITION VERSION 4 (2017) INCLUDING THE SYDNEY WATER SUPPLEMENT & APPENDICES. THE CONTRACTOR MUST HAVE A COPY OF THESE ON SITE AT ALL TIMES.
3. ALL STRUCTURES CONSTRUCTED TO PROPOSED FINISHED SURFACE LEVELS. ALL LEVELS REFER TO PROPOSED FINISHED SURFACE LEVELS. CONTRACTOR LIAISED WITH ROAD AND/OR CIVIL CONTRACTOR TO VERIFY ALL LEVELS IN PARTICULAR IN OR ADJACENT TO ROADS. WSC WERE INFORMED OF ANY DISCREPANCIES.
4. ALL BUILDING LAYOUTS, FINISHED SURFACE LEVELS, STORMWATER INFORMATION, AND GENERAL CIVIL ENGINEERING DETAILS TAKEN FROM 'ORION CONSULTING ENGINEERS' ENGINEERING PLANS REVISION 'A' DATED '03.10.24'
5. THE CONTRACTOR APPLIED THE CONDITIONS OF THE SYDNEY WATER TECHNICAL SPECIFICATION – CIVIL VERSION 11.0 REGARDING BACKFILLING AND TESTING (SECTIONS C2.7 AND C2.8). A CONSTRUCTION QUALITY ASSURANCE PLAN SUBMITTED TO THE WSC AS PER THE REQUIREMENTS. THIS PLAN IS TO CLEARLY SPECIFY HE NUMBER OF TESTS REQUIRED FOR THE WORKS.
- THE NUMBER OF TESTS COMPLETED TO SATISFY THE TECHNICAL SPECIFICATION IS:
- TRENCH FILL ZONE: 15 TESTS
MAINTENANCE STRUCTURE FILL ZONE: 46 TESTS
- NOTE: A HIGHER LEVEL OF COMPACTION COMPLIED (FOR EXAMPLE TNSW OR COUNCIL REQUIREMENTS), THE CONTRACTOR LIAISED WITH THE SITE SUPERINTENDENT REGARDING REQUIREMENTS.
6. THE REVIEW OF ENVIRONMENTAL FACTORS WERE INTEGRAL PART OF THIS DESIGN AND WAS READ IN CONJUNCTION WITH THIS PLAN, ALL MITIGATION MEASURES IN THE REF WERE ADHERED TO.
7. PRIOR TO ANY EXCAVATION THE CONSTRUCTOR HAD A CURRENT COPY OF THE UNDERGROUND SERVICES REPORT, THIS WAS READ IN CONJUNCTION WITH THIS PLAN.
8. SERVICES SHOWN FROM 'DIAL BEFORE YOU DIG' SERVICES SEARCH WERE INDICATIVE ONLY AND IT WAS CONFIRMED BY THE CONTRACTOR PRIOR TO ANY EXCAVATION WORKS ON SITE.
9. BUILDING OVER/ADJACENT TO SEWER – CONDITIONS MAY APPLY. REFER TO ORION CONSULTING ENGINEERS PTY LTD FOR DETAILS.
10. ALL EXCAVATION, SHORING EXCAVATION AND STABILITY OF ANY ADJACENT STRUCTURES, SERVICES OR DWELLINGS WAS THE RESPONSIBILITY OF THE CONTRACTOR. USE OF SHORING BOXES WAS NOT A FORM OF STABILITY CONTROL, NEITHER WAS SAND CEMENT BACKFILL OR CONCRETE ENCASEMENT. DILAPIDATION REPORTS WERE PROVIDED WHERE REQUIRED.
11. ALL JUNCTIONS FOR THE PCS'S LOCATED 0.7m MIN. OFF THE DOWNSTREAM PROPERTY BOUNDARY (CURRENT AND FUTURE) OR DOWNSTREAM EASEMENT BOUNDARY OR MINIMUM 1.0m MIN. OFF THE DOWNSTREAM STRUCTURE. ALL PCS's ARE CLEAR OF DRIVEWAYS, FOR LOCATION OF DRIVEWAYS CONTRACTOR LIAISED WITH CIVIL CONTRACTOR OR SITE SUPERINTENDENT FOR CONFIRMATION OF LOCATIONS.
DENOTES STANDARD PCS CONNECTION (REFER DTC-2120 ISSUE B DATE 31.07.24)
12. IT WAS THE CONTRACTORS RESPONSIBILITY TO PROVIDE THE CHAINAGES FOR THE PCS's, THE LENGTH OF THE PCS's, THE TYPE OF CONNECTION USED, THE LOCATION OF THE IO AND THE INVERT LEVEL AT THE PCP (IF APPLICABLE) TO THE WSC FOR WAC PURPOSES.
13. ALL PCS's HAVE MINIMUM STIFFNESS RATING OF SN10. JOINTING WAS SOLVENT WELDED.
14. CONTRACTOR ENSURED THAT WORKS WERE CONSTRUCTED IN ACCORDANCE WITH SYDNEY WATER'S DEEMED TO COMPLY DRAWINGS:
FOR ALL MH'S DTC-2000 (ISSUE D 31.07.24), DTC-2220 (ISSUE E 31.07.24), DTC-2202 (ISSUE F 31.07.24), DTC-2203 (ISSUE C 31.07.24), DTC-2221 (ISSUE D 31.07.24), DTC-2222 (ISSUE D 31.07.24), DTC-2223 (ISSUE C 31.07.24)
15. CONCRETE ENCASED PIPES SHOWN ACCORDINGLY:  – REFER TO SEW-1205-V
16. AREAS HATCHED THUS NOT DRAINED:– 
17. ALL MCs & MSs CONFORMED TO WSA-137-2019 VERSION 3.1, "INDUSTRY STANDARD FOR UNPLASTICISED POLYVINYL CHLORIDE (PVCU), POLYPROPYLENE (PP) AND POLYETHYLENE (PE) MAINTENANCE SHAFTS, MAINTENANCE CHAMBERS AND MAINTENANCE HOLES FOR SEWERAGE".
18. CONCRETE WORKS TO CONFORMED TO SECTION 3 TECHNICAL SPECIFICATION – CIVIL VERSION 11.0, CONCRETE TESTING UNDERTAKEN AS PER SECTION 3.12.
19. THE CONSTRUCTOR USED PRODUCTS AND MATERIALS APPROVED BY SYDNEY WATER. IF AN ALTERNATIVE WAS REQUIRED, THE CONSTRUCTOR OR ACCREDITED SUBCONSULTANT WERE TO PREPARE A DEVIATION FROM STANDARDS FOR SYDNEY WATER REVIEW & APPROVAL.
20. DUE TO EXISTING TREES ON LOT 1 DP1014583 EAST, AND THE CONSTRAIN TO TERMINATE WITH A STRUCTURE WITH IN THE LOT , CONSTRUCTOR ENSURED A STUB TERMINATED AT THE BOUNDARY FOR FUTURE CONNECTION.



WORK AS CONSTRUCTED



LOCALITY PLAN
(NOT TO SCALE)

MAINTENANCE STRUCTURE SCHEDULE

LINE	CHAINAGE	TYPE	DN RISER	CLASS OF COVER	MATERIAL	COMMENTS
1	71.90	M.H.	1050	D	CAST IN-SITU CONCRETE	DTC-2203 MANHOLE
1	105.56	M.C.	600	B	P.P.	AWASHAFT PP 600 (OR APPROVED EQUIVALENT)
1	171.23	M.C.	600	B	P.P.	AWASHAFT PP 600 (OR APPROVED EQUIVALENT)

5	WORK AS CONSTRUCTED	RA	6.06.2026
4	AMENDED LOT NUMBER	RA	7.8.2025
3	AMENDED TO ADDRESS SWC COMMENTS	RA	28.5.2025
2	ISSUE FOR APPROVAL	RA	15.5.2025
1	ISSUE FOR APPROVAL	RA	6.2.2025
No.	AMENDMENT DESCRIPTION	BY	DATE

PLAN TO BE READ IN CONJUNCTION WITH CURRENT SYDNEY WATER STANDARDS SYDNEY WATER CORPORATION				UTILITIES			WORK AS CONSTRUCTED CERTIFICATION				PIPE SCHEDULE					AUSTRALIAN HEIGHT DATUM		NO AMENDMENTS ARE TO BE MADE TO THIS PLAN WITHOUT REFERENCE TO SYDNEY WATER. THIS PLAN IS NOT NECESSARILY UP TO DATE OR CORRECT AND SYDNEY WATER ACCEPTS NO RESPONSIBILITY.		SYDNEY WATER CORPORATION	
TYPE				DATE	REF.	TYPE	DATE	REF.	DEVELOPER	MIRVAC HOMES PTY LTD	SIZE DN	TYPE	CLASS	LENGTH	PIPE JOINING METHOD / NOTES	SCALES		U.S. DIRECTORY MAP 304/A13, 41th edition.		Case No. 208179WW	
PROP STORMWATER: SWD				03.10.24	ENG.				WATER SERVICE CO-ORDINATOR	ORION CONSULTING ENGINEERS PTY LTD	150	U.P.V.C.	SN8	171.23	RRJ	PLAN : 1:500 . SECTION { HOR : 1:500 . VERT : 1:125 .		SHEET . . 1 . OF . 4 .		File No. 22-0277 R.SALES	
PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT:-									CONSTRUCTOR	GLENMORE PARK PLUMBING & DRAINAGE						CROSS SECTIONS NATURAL					
DIAL BEFORE YOU DIG Ph. 1100 .									DESIGNER	Rimon Awad						LENGTHS, DEPTHS & LEVELS ARE IN METRES.					
ELECTRICITY, ENDEAVOUR ENERGY Ph. 131 003 .									I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.				DESIGN HEADm	BOUNDARY TRAPS REQUIRED.							
GAS JEMENA GAS Ph. 1300 880 906																					
TELECOMMUNICATIONS . . TELSTRA Ph. 1800 114 918																					
SYDNEY WATER Ph. 132 082 .																					
GIVING AT LEAST 48 HOURS NOTICE.																					



FUTURE LOT
LOT 1
DP1014583

STUB @ 1%
CAPPED AT THE BOUNDARY
SEE NOTE 20

M.C.
WITH DN150 INLET
ACTION ON:
DN150
CASE 217504WW

CASE:
DN150

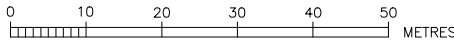
FUTURE LOTS
ACTION ON:
CASE 217504WW

FUTURE LOTS
ACTION ON:
CASE 217504WW

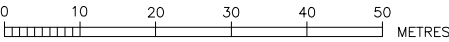
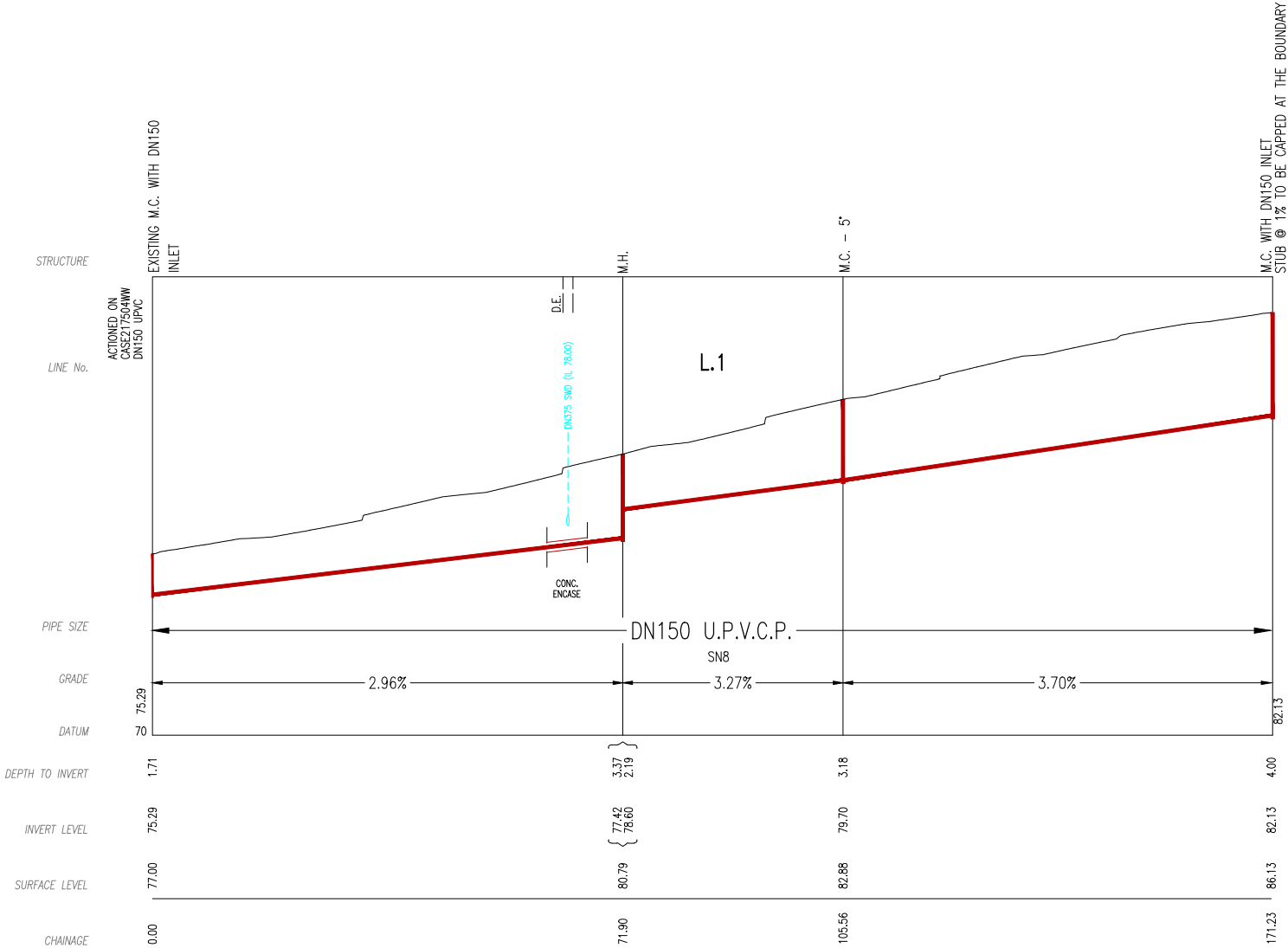
217504WW
UPVC

ACTION ON:
DN150
CASE 217504WW

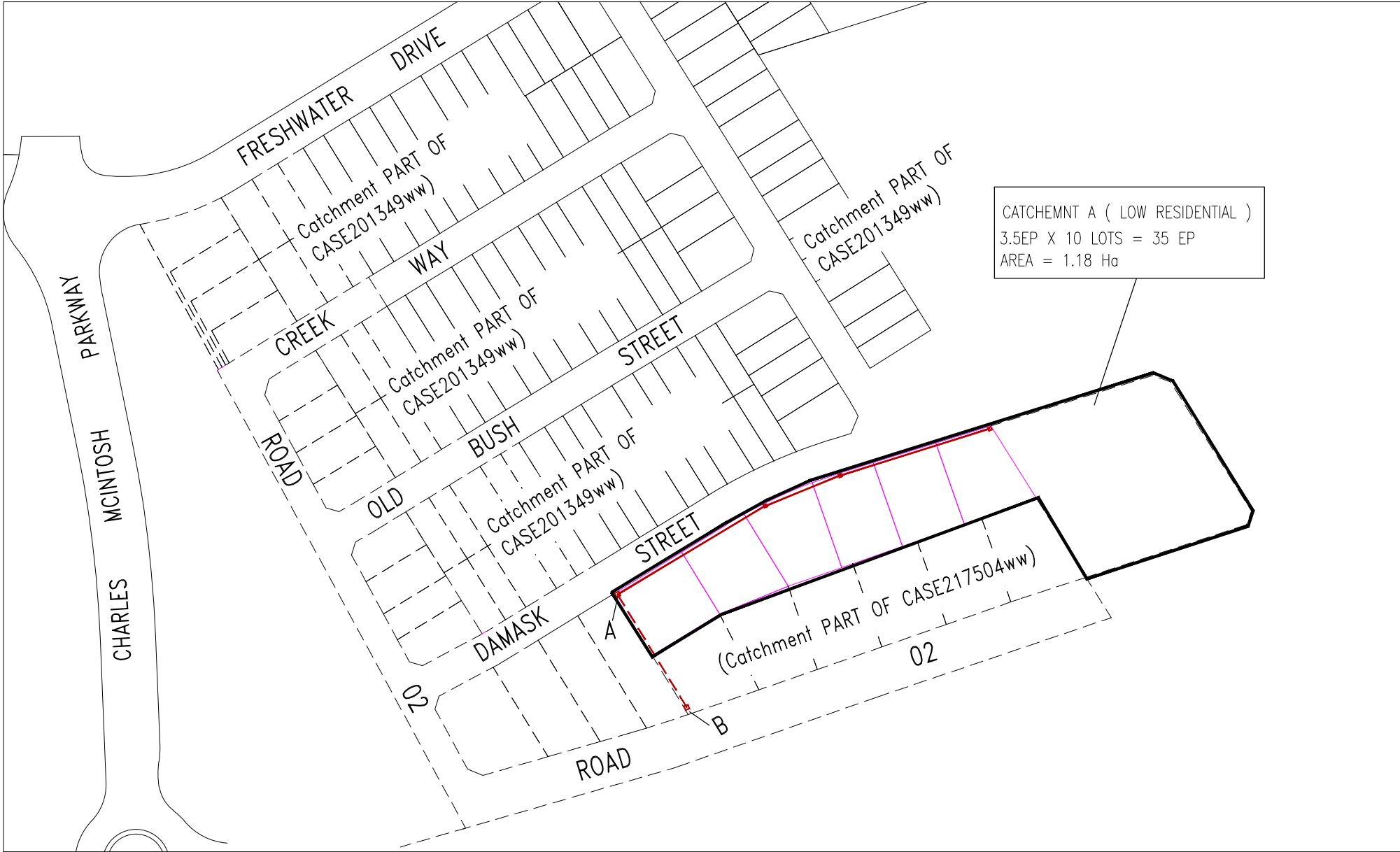
ACTION ON:
CASE
DN150



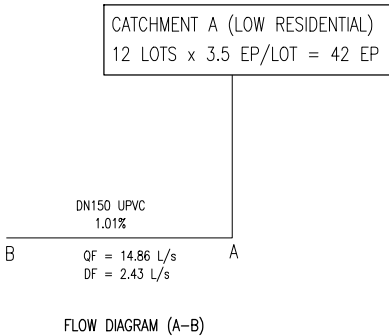
WORK AS CONSTRUCTED CERTIFICATION		 SYDNEY WATER CORPORATION	
DEVELOPER	MIRVAC HOMES PTY LTD		Case No. 208179WW SHT 2 OF 4 SHTS.
W.S.C.	ORION CONSULTING ENGINEERS PTY LTD		
CONSTRUCTOR	GLENMORE PARK PLUMBING & DRAINAGE		
COMPLETED	6.5.2026		
W.A.C. PREPARED	6.6.2026		
DESIGNER	Rimon Awad	SYDNEY WATER CORPORATION	
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS		FOR DETAILS OF SERVICES SEE SHEET 1	



WORK AS CONSTRUCTED CERTIFICATION		Sydney WATER		SYDNEY WATER CORPORATION	
DEVELOPER	MIRVAC HOMES, PTY LTD	Case No. 208179WW	SHT 3 OF 4 SHTS.	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	
W.S.C.	ORION CONSULTING ENGINEERS PTY LTD				
CONSTRUCTOR	GLENMORE PARK PLUMBING & DRAINAGE				
COMPLETED	6.5.2026				
W.A.C. PREPARED	6.6.2026				
DESIGNER	Rimon Awad				
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS					



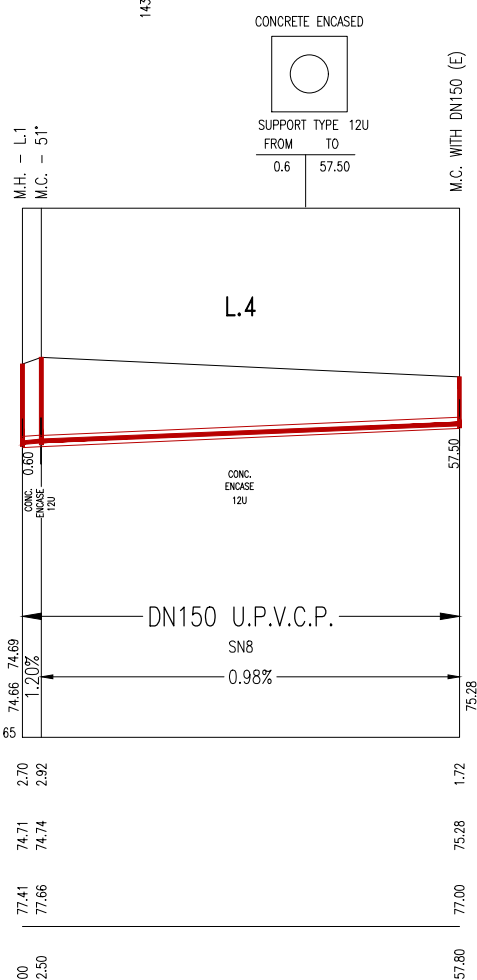
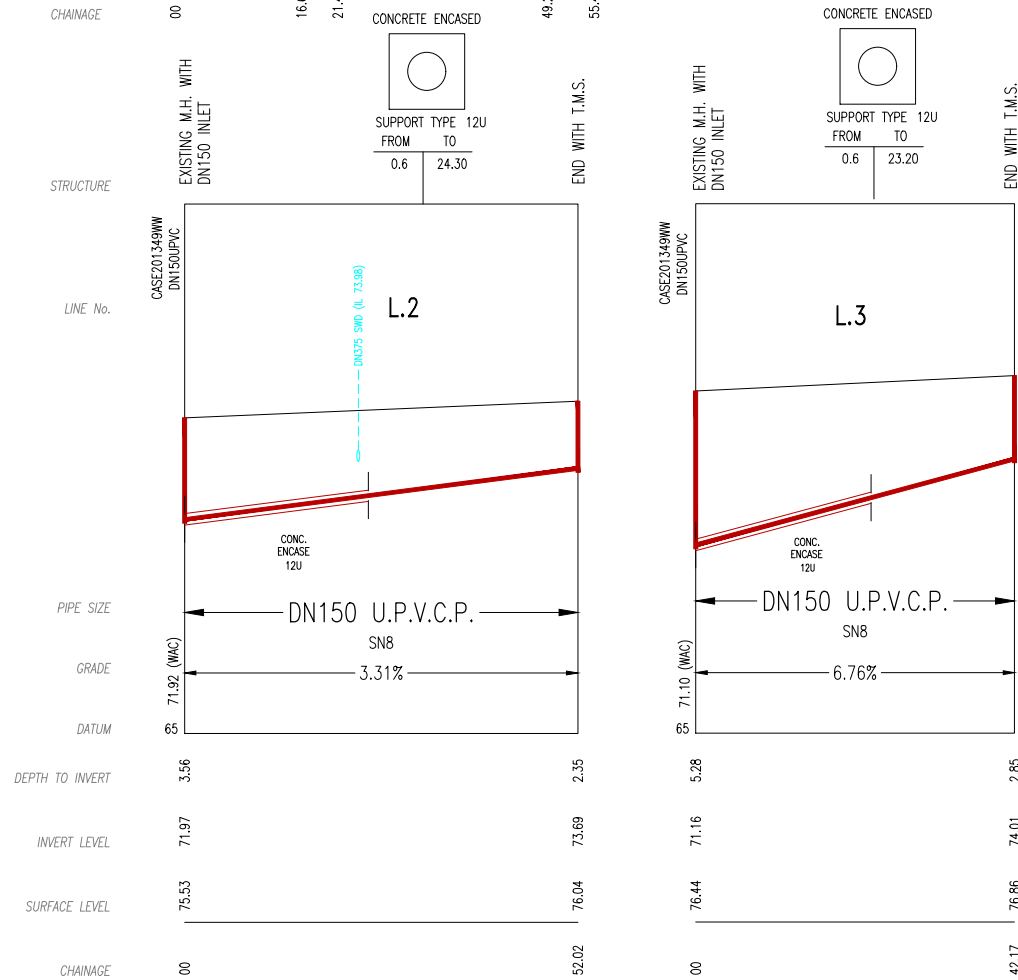
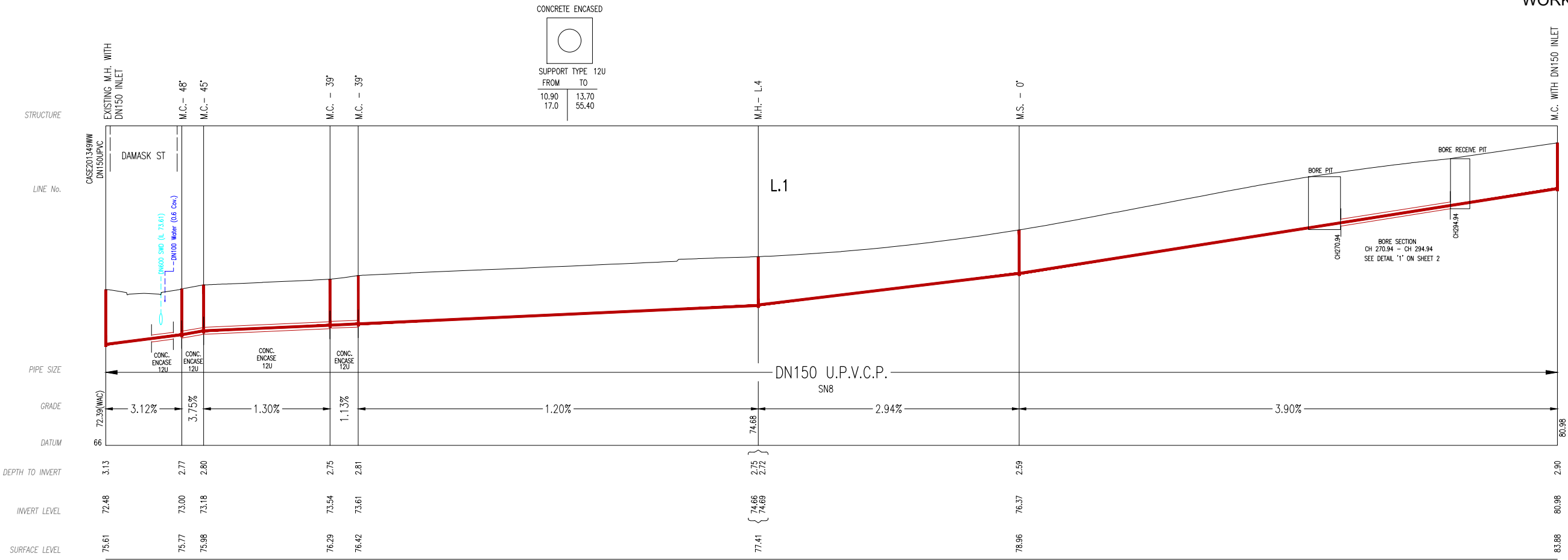
CATCHMENT PLAN
(NOT TO SCALE)



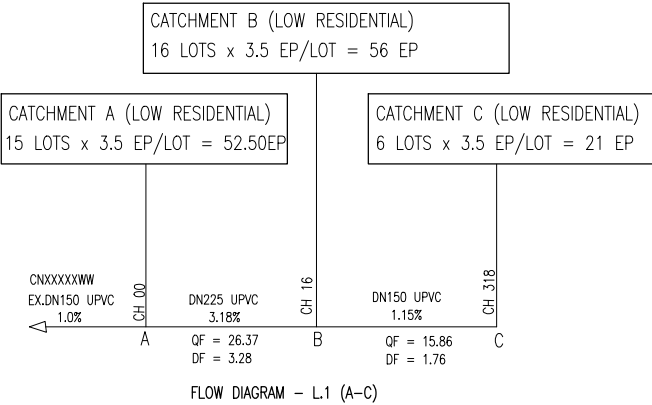
FLOW SCHEDULE

SUMMARY																					
Section	Line No	Chainage	Pipe Status	Total Area	Total Gravity	Total Grav + Pump	Pipe Material	Pipe Size	Pipe Size (ID)	Pipe Grade	Design Flow (DF)	Actual PDWF	Qf (Capacity)	Velocity @ Qf	Velocity @ PDWF	SHEAR STRESS	Grade Check	Max EP Check	Self Cleansing	Slime Control	Capacity Check
		m		Ha	EP	EP		mm	mm	%	L/s	L/s	L/s	m/s	m/s	Pa		for dia <= 300			
A-B	existing	00	existing	1.18	42	42	PVC-U PN16	150	148	1.01	2.43	0.81	14.86	0.87	0.45	1.37		RETIC 730EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK

WORK AS CONSTRUCTED CERTIFICATION				SYDNEY WATER CORPORATION	
DEVELOPER					
MIRVAC HOMES PTY LTD					
W.S.C.					
ORION CONSULTING ENGINEERS PTY LTD					
CONSTRUCTOR				Case No. 208179WW	
GLENMORE PARK PLUMBING & DRAINAGE					
COMPLETED				SHT 4 OF 4 SHTS.	
6.5.2026					
W.A.C. PREPARED					
6.6.2026					
DESIGNER					
Rimon Awad				SYDNEY WATER CORPORATION	
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS				FOR DETAILS OF SERVICES SEE SHEET 1	



WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	MIRVAC HOMES PTY LTD		Case No. 217504WW SHT 4 OF 5 SHTS.
W.S.C.	ORION CONSULTING ENGINEERS PTY LTD		
CONSTRUCTOR	GLENMORE PARK PLUMBING & DRAINAGE		
COMPLETED	06/05/2025		
W.A.C. PREPARED	01/08/2026		
DESIGNER	R.Awad	SYDNEY WATER CORPORATION	
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS		FOR DETAILS OF SERVICES SEE SHEET 1	



FLOW SCHEDULE

Section	Line No	Chainage	Pipe Status	Total Area	Total Gravity	Total Grav + Pump	Pipe Material	Pipe Size (DN)	Pipe Size (ID)	Pipe Grade	Design Flow (DF)	Actual PDWF	Qf (Capacity)	Velocity @ Qf	Velocity @ PDWF	SHEAR STRESS	Grade Check	Max EP Check	Self Cleansing	Slime Control	Capacity Check
		m		Ha	EP	EP		mm	mm	%	L/s	L/s	L/s	m/s	m/s	Pa		for dia <=300			
C-B	1	318	new	0.57	21	21	PVC-U PN16	150	148	1.15	1.76	0.59	15.86	0.93	0.44	1.37		RETIC 800EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
B-A	1	16	new	2.29	77	77	PVC-U PN16	150	148	3.18	3.28	1.09	26.37	1.54	0.76	3.98		RETIC 1588EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK

PROPOSED SEWER FLOW AND CAPACITY
(NOT TO SCALE)

WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	MIRVAC HOMES PTY LTD		
W.S.C.	ORION CONSULTING ENGINEERS PTY LTD		
CONSTRUCTOR	GLENMORE PARK PLUMBING & DRAINAGE	Case No. 217504WW	SHT 5 OF 5 SHTS.
COMPLETED	06/05/2025		
W.A.C. PREPARED	01/06/2025		
DESIGNER	R.Awad		
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS		SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1	

1. DESIGNER AND WSC:
ORION CONSULTING ENGINEERS PTY LTD
SUITE 4.04/12 Century Circuit, Norwest, NSW 2153
PH.: 02 8660 0035
www.theoriongroup.au

FOR: MIRVAC HOMES (NSW) PTY LTD
ADDRESS : LEVEL 28/200 GEORGE ST SYDNEY NSW 200
CONTACT : 0416 623 295
2. THE PROPOSED WORKS AND MATERIALS IN ACCORDANCE WITH THE SYDNEY WATER TECHNICAL SPECIFICATION – CIVIL VERSION 11.0 AS WELL AS THE SEWERAGE CODE OF AUSTRALIA WSA 02–2002–2.2 SYDNEY WATER EDITION VERSION 4 (2017) INCLUDING THE SYDNEY WATER SUPPLEMENT & APPENDICES. THE CONTRACTOR MUST HAVE A COPY OF THESE ON SITE AT ALL TIMES.
3. ALL STRUCTURES CONSTRUCTED TO PROPOSED FINISHED SURFACE LEVELS. ALL LEVELS REFER TO PROPOSED FINISHED SURFACE LEVELS. CONTRACTOR TO LIAISED WITH ROAD AND/OR CIVIL CONTRACTOR TO VERIFY ALL LEVELS IN PARTICULAR IN OR ADJACENT TO ROADS. WSC WAS INFORMED OF ANY DISCREPANCIES.
4. ALL BUILDING LAYOUTS, FINISHED SURFACE LEVELS, STORMWATER INFORMATION, AND GENERAL CIVIL ENGINEERING DETAILS TAKEN FROM 'ORION CONSULTING ENGINEERS' ENGINEERING PLANS REVISION 'A' DATED '03.10.24'
5. THE CONTRACTOR APPLIED THE CONDITIONS OF THE SYDNEY WATER TECHNICAL SPECIFICATION – CIVIL VERSION 11.0 REGARDING BACKFILLING AND TESTING (SECTIONS C2.7 AND C2.8). A CONSTRUCTION QUALITY ASSURANCE PLAN SUBMITTED TO THE WSC AS PER THE REQUIREMENTS. THIS PLAN IS TO CLEARLY SPECIFY HE NUMBER OF TESTS REQUIRED FOR THE WORKS.
- THE NUMBER OF TESTS COMPLETED TO SATISFY THE TECHNICAL SPECIFICATION IS:
- TRENCH FILL ZONE: 36 TESTS
MAINTENANCE STRUCTURE FILL ZONE: 60 TESTS
- NOTE: A HIGHER LEVEL OF COMPACTION COMPLIED (FOR EXAMPLE TNSW OR COUNCIL REQUIREMENTS), THE CONTRACTOR LIAISED WITH THE SITE SUPERINTENDENT REGARDING REQUIREMENTS.
6. ALL LEVELS ELECTRONICALLY GENERATED. NO LEVEL BOOK AVAILABLE.
7. THE REVIEW OF ENVIRONMENTAL FACTORS WAS AN INTEGRAL PART OF THIS DESIGN AND WAS READ IN CONJUNCTION WITH THIS PLAN, ALL MITIGATION MEASURES IN THE REF WERE ADHERED TO.
8. PRIOR TO ANY EXCAVATION THE CONSTRUCTOR HAD A CURRENT COPY OF THE UNDERGROUND SERVICES REPORT, THIS WAS READ IN CONJUNCTION WITH THIS PLAN.
9. SERVICES SHOWN FROM 'DIAL BEFORE YOU DIG' SERVICES SEARCH ARE INDICATIVE ONLY AND SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO ANY EXCAVATION WORKS ON SITE.
10. BUILDING OVER/ADJACENT TO SEWER – CONDITIONS MAY APPLY. REFER TO ORION CONSULTING ENGINEERS PTY LTD FOR DETAILS.
11. ALL EXCAVATION, SHORING EXCAVATION AND STABILITY OF ANY ADJACENT STRUCTURES, SERVICES OR DWELLINGS WAS THE RESPONSIBILITY OF THE CONTRACTOR. USE OF SHORING BOXES WAS NOT A FORM OF STABILITY CONTROL, NEITHER WAS SAND CEMENT BACKFILL OR CONCRETE ENCASEMENT.
12. ALL JUNCTIONS FOR THE PCS'S LOCATED 0.7m MIN. OFF THE DOWNSTREAM PROPERTY BOUNDARY (CURRENT AND FUTURE) OR DOWNSTREAM EASEMENT BOUNDARY OR MINIMUM 1.0m MIN. OFF THE DOWNSTREAM STRUCTURE. ALL PCS'S WERE CLEAR OF DRIVEWAYS, FOR LOCATION OF DRIVEWAYS CONTRACTOR TO LIAISE WITH CIVIL CONTRACTOR OR SITE SUPERINTENDENT FOR CONFIRMATION OF LOCATIONS.
DENOTES STANDARD PCS CONNECTION (REFER DTC-2120 ISSUE B DATE 31.07.24)
13. IT WAS THE CONTRACTORS RESPONSIBILITY TO PROVIDE THE CHAINAGES FOR THE PCS's, THE LENGTH OF THE PCS's, THE TYPE OF CONNECTION USED, THE LOCATION OF THE IO AND THE INVERT LEVEL AT THE PCP (IF APPLICABLE) TO THE WSC FOR WAC PURPOSES.
14. THE TOTAL LENGTH OF THE DN100 PCS's EXCLUDING RISERS IS APPROXIMATELY 17.0m. PCS's HAVE MINIMUM STIFFNESS RATING OF SNI0. JOINTING WAS SOLVENT WELDED.
15. CONTRACTOR ENSURED THAT WORKS ARE CONSTRUCTED IN ACCORDANCE WITH SYDNEY WATER'S DEEMED TO COMPLY DRAWINGS:
FOR ALL MH'S DTC-2000 (ISSUE D 31.07.24), DTC-2220 (ISSUE E 31.07.24), DTC-2202 (ISSUE F 31.07.24), DTC-2203 (ISSUE C 31.07.24), DTC-2221 (ISSUE D 31.07.24), DTC-2222 (ISSUE D 31.07.24), DTC-2223 (ISSUE C 31.07.24)
16. CONCRETE ENCASED PIPE SHOWN ACCORDINGLY:  - REFER TO SEW-1205-V
17. AREAS HATCHED THUS NOT DRAINED:- 
18. ALL MCs & MSs CONFORMED TO WSA-137-2019 VERSION 3.1, "INDUSTRY STANDARD FOR UNPLASTICISED POLYVINYL CHLORIDE (PVCU), POLYPROPYLENE (PP) AND POLYETHYLENE (PE) MAINTENANCE SHAFTS, MAINTENANCE CHAMBERS AND MAINTENANCE HOLES FOR SEWERAGE".
19. ANY CONCRETE WORKS CONFORMED TO SECTION 3 TECHNICAL SPECIFICATION – CIVIL VERSION 11.0, CONCRETE TESTING UNDERTAKEN AS PER SECTION 3.12.
20. THE CONSTRUCTOR USED PRODUCTS AND MATERIALS APPROVED FOR USE BY SYDNEY WATER.

MAINTENANCE STRUCTURE SCHEDULE						
LINE	CHAINAGE	TYPE	DN RISER	CLASS OF COVER	MATERIAL	COMMENTS
1	16.68	M.C.	DN600	B	P.P.	AWASHAFT PP 600
1	21.48	M.C.	DN600	B	P.P.	AWASHAFT PP 600
1	49.20	M.C.	DN600	B	P.P.	AWASHAFT PP 600
1	55.40	M.C.	DN600	B	P.P.	AWASHAFT PP 600
1	143.13	M.H.	DN1050	B	CONCRETE	DTC-2203
1	200.36	M.S.	DN300	B	P.V.C.	
1	318.44	M.C.	DN600	B	P.P.	AWASHAFT PP 600
2	52.02	T.M.S.	DN300	B	P.V.C.	
3	42.17	T.M.S.	DN300	B	P.V.C.	
4	2.50	M.C.	DN600	B	P.P.	AWASHAFT PP 600
4	57.80	M.C.	DN600	B	P.P.	AWASHAFT PP 600

4	WORK AS CONSTRUCTED	RA	1.06.2026
3	L1 CH270.94-294.94 TO BE BORED	RA	14.11.2025
2	LABELED MC AT MC SYMBOLS AS PER SWC COMMENTS	RA	26.2.2025
1	ISSUE FOR APPROVAL	RA	31.1.2025

No.	AMENDMENT DESCRIPTION	BY	DATE
PLAN TO BE READ IN CONJUNCTION WITH CURRENT SYDNEY WATER STANDARDS SYDNEY WATER CORPORATION			
PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT:-			
DIAL BEFORE YOU DIG . . . Ph. 1100 . . .			
ELECTRICITY, ENDEAVOUR ENERGY . . . Ph. 131 003 . . .			
GAS . . . JEMENA GAS . . . Ph. 1300 880 906 . . .			
TELECOMMUNICATIONS . . . TELSTRA . . . Ph. 1800 114 918 . . .			
SYDNEY WATER . . . Ph. 132 092 . . .			
GIVING AT LEAST 48 HOURS NOTICE.			

UTILITIES					
TYPE	DATE	REF.	TYPE	DATE	REF.
PROP WATER: DN100 WATER — DN100 WATER	15.11.24	DESIGN			
PROP STORMWATER: SWD — SWD	03.10.24	ENG.			

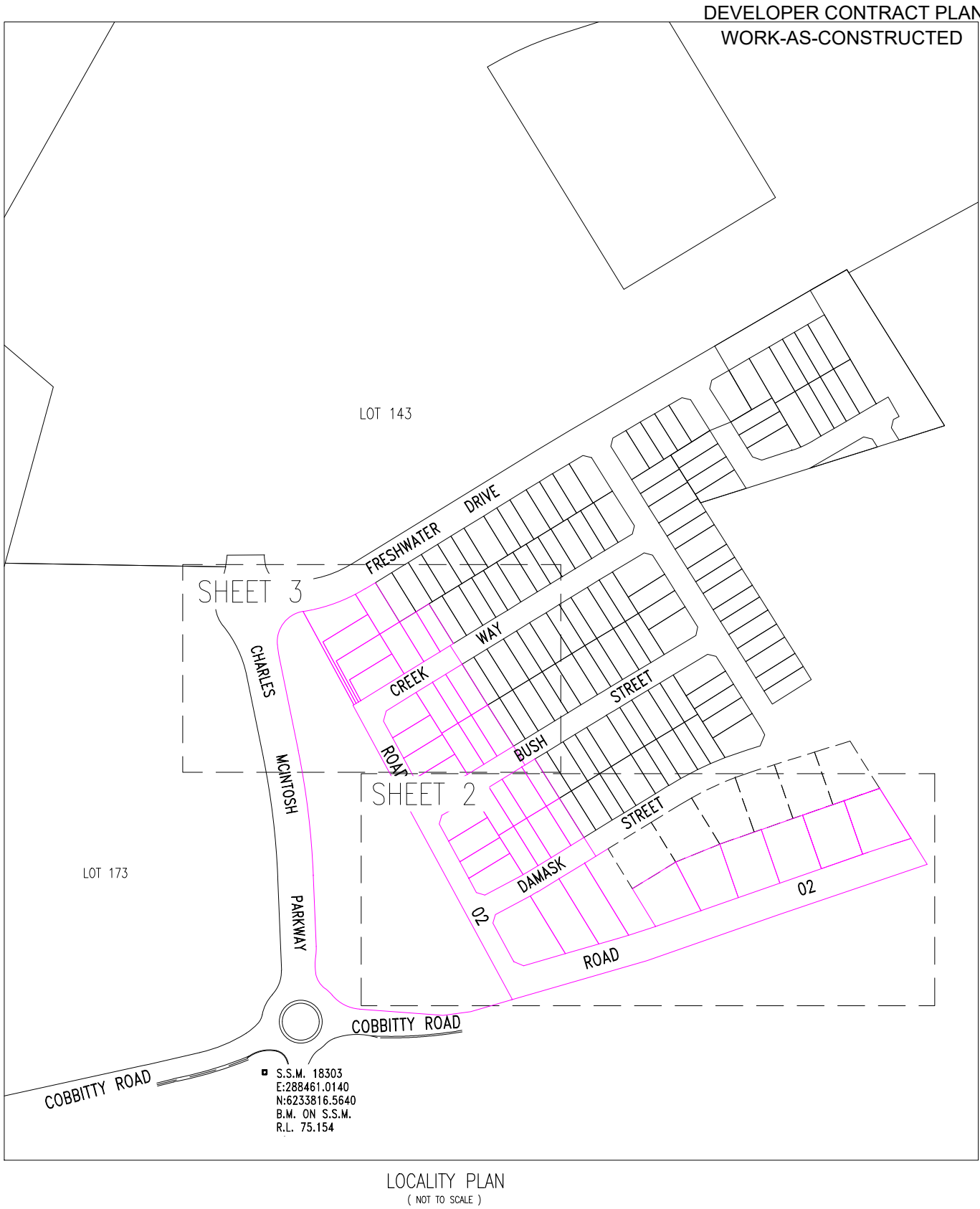
WORK AS CONSTRUCTED CERTIFICATION	
DEVELOPER	MIRVAC HOMES PTY LTD.
WATER SERVICE CO-ORDINATOR	ORION CONSULTING ENGINEERS PTY LTD.
CONSTRUCTOR	GLENMORE PARK PLUMBING & DRAINAGE
COMPLETED	06.05.2026 W.A.C. PREPARED 01.06.2026
DESIGNER	R. Awad
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.	

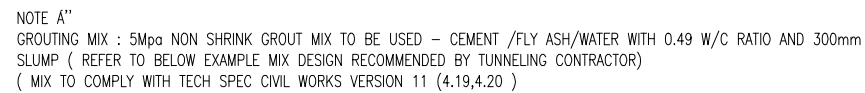
PIPE SCHEDULE					
SIZE DN	TYPE	CLASS	LENGTH	PIPE JOINING METHOD / NOTES	
150	U.P.V.C.	SN8	470.43	RRJ	BORE ENCASEING PIPE
355OD	SCL	6.5 PL	24.0		
DESIGN HEAD, . . .m	NO BOUNDARY TRAPS REQUIRED.				

GDA 2020
AUSTRALIAN HEIGHT DATUM
SCALES
PLAN : 1:500 . SECTION { HOR . 1:500 . VERT . 1:125 .
CROSS SECTIONS NATURAL
LENGTHS, DEPTHS & LEVELS ARE IN METRES.

NO AMENDMENTS ARE TO BE MADE TO THIS PLAN WITHOUT REFERENCE TO SYDNEY WATER. THIS PLAN IS NOT NECESSARILY UP TO DATE OR CORRECT AND SYDNEY WATER ACCEPTS NO RESPONSIBILITY.	
U.B. DIRECTORY . . . MAP.304/A13 .41th.edition . .	
SHEET. .1 . OF . 5. .	File No. . 23-0580

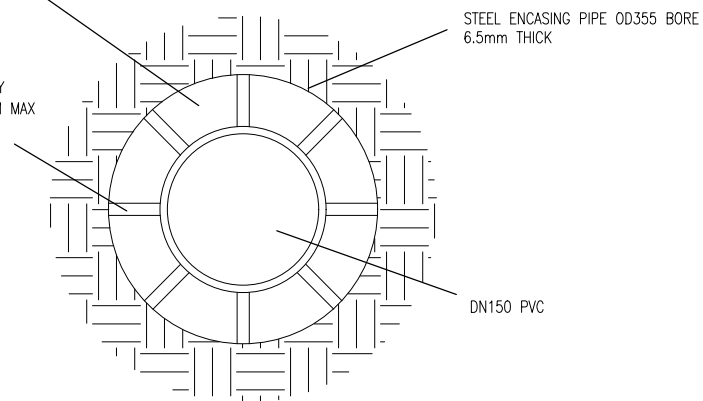
Sydney WATER	SYDNEY WATER CORPORATION
Case No. 217504WW	
WEST CAMDEN SEWERAGE DRAINS TO WEST CAMDEN STP VIA SP1161 AND SP0673	



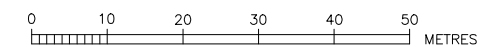


Compressive Strength : MPa at 28 Days	w/cm Ratio :	0.49			
Aggregate size :	Slump	300mm			
Usage :	Slump with SuperP :				
Placement :	Air % :	0.0 ± 0.0 %			
Mix analysis					
Product Code - Description - Type - Supplier Name - Supplier City	F.M.	Gsb	Abs.	Qty SSD	Volume
Cement & Mineral additive					
C-GP-GLQ - 2-SL CEMENT - Gladstone SL - - Cement Australia, Kandos	3.150		120 kg		0.038 m³
FASH-MTP - 2-Flyash - Fly Ash - -	2.150		1050 kg		0.488 m³
Water					
Water - 4-WATER - Mains Water --	1.000	578 kg (578.1 L)			0.578 m³
Air					0.000 m³
Admixture & Other constituent					
P300RI - 3-Pozzololith 300 Ri - Retarder - - BASF, Sydney	1.000	1800 ml/m³	0.002 m³ / 0.002 m³		
GLEN27 - 3-GLENIUM 27 - High Range Water Reducer - - BASF, Sydney	1.000	1750 ml/m³	0.002 m³ / 0.002 m³		

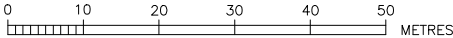
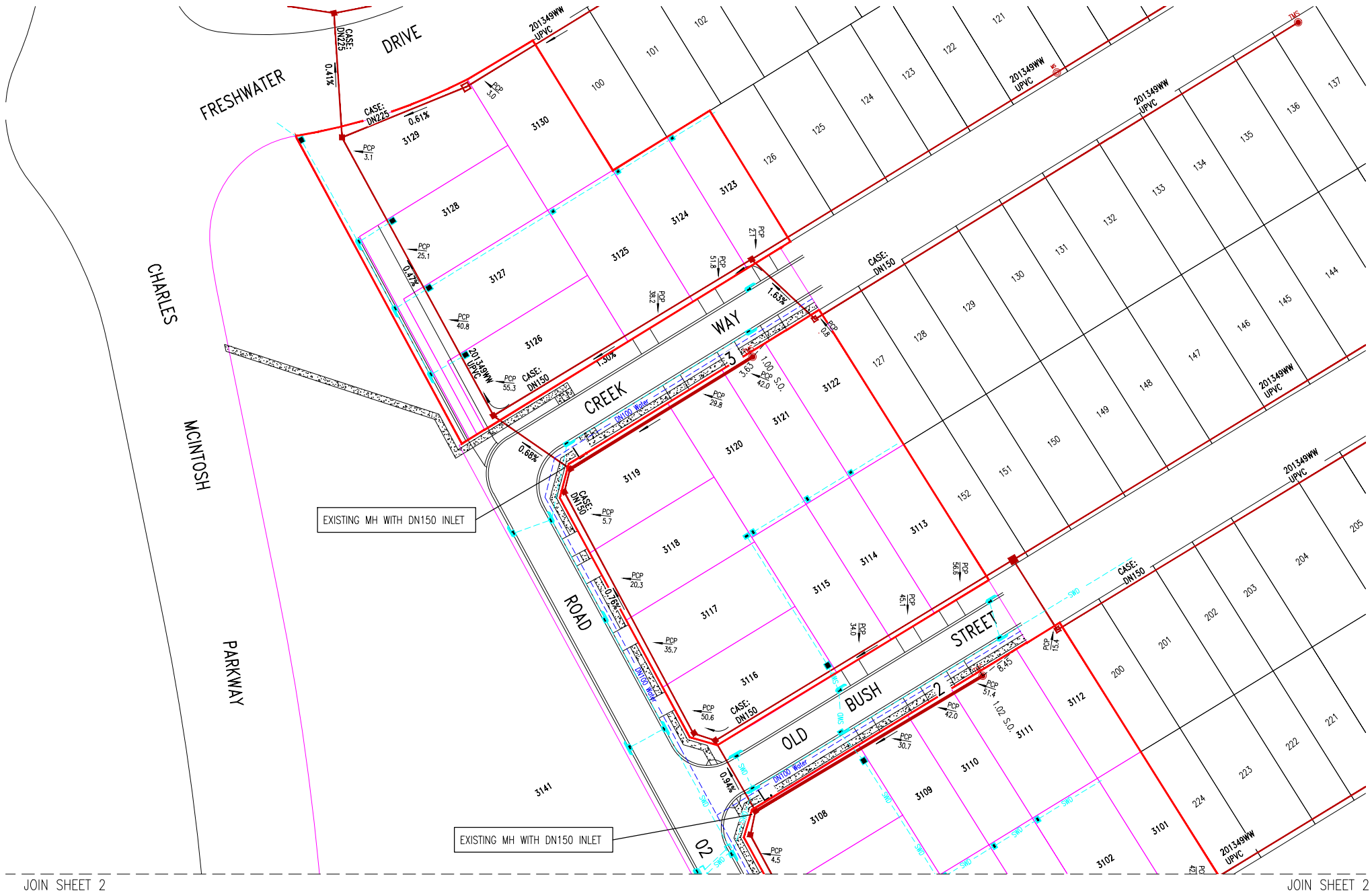
SPACER TO KEEP SEWER PIPE CENTRALLY
LOCATED (SUPPORTS TO BE SPACED 1M MAX
SPACING, AS PER SEW-1403)



TYPICAL BORE CROSS SECTION FOR DN150 SEWER PIPE
DETAIL '1'
(NOT TO SCALE)



WORK AS CONSTRUCTED CERTIFICATION		Sydney WATER SYDNEY WATER CORPORATION	
DEVELOPER	MRVAC HOMES PTY LTD	Case No. 217504WW SHT 2 OF 5 SHTS.	
W.S.C.	ORION CONSULTING ENGINEERS PTY LTD		
CONSTRUCTOR	GLENNIE PARK PLUMBING & DRAINAGE		
COMPLETED	09/05/2025		
W.A.C. PREPARED	01/06/2026		
DESIGNER	IRAwad	SYDNEY WATER CORPORATION	
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORKS CONSTRUCTION DETAILS AND THE WORKS CONSTRUCTION DETAILS ARE THE SAME AS THE WORKS CONSTRUCTION DETAILS FOR DETAILS OF SERVICES SEE SHEET 1			



WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	MIRVAC HOMES PTY LTD	 Case No. 217504WW SHT 3 OF 5 SHTS.	SYDNEY WATER CORPORATION FOR DETAILS OF SERVICES SEE SHEET 1
W.S.C.	ORION CONSULTING ENGINEERS PTY LTD		
CONSTRUCTOR	GLENMORE PARK PLUMBING & DRAINAGE		
COMPLETED	06/05/2025		
W.A.C. PREPARED	01/06/2026		
DESIGNER	R.Awad		
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS			