



1. WATER SERVING CO-ORDINATOR:
KF WILLIAMS ENVIRONMENTAL SERVICES PTY LTD
LEVEL 1, 497 PRINCES HIGHWAY FAIRY MEADOW NSW 2519
PH. (02) 4228 7044

FOR: MIRVAC HOMES (NSW) PTY LTD
LEVEL 28 200 GEORGE STREET SYDNEY NSW 2000
PH. 0416 623 295
2. THE WORKS AND MATERIALS COMPLETED IN ACCORDANCE WITH THE SEWER RETICULATION CODE OF AUSTRALIA (WSA 02-2002-2.2 VERSION 4) INCLUDING THE SYDNEY WATER SUPPLEMENT AND APPENDICES. CONTRACTOR HAD A COPY OF THIS DOCUMENT ON SITE AT ALL TIMES
3. ALL FINISHED SURFACE LEVELS, STORMWATER INFORMATION AND GENERAL CIVIL ENGINEERING DETAILS TAKEN FROM 21-0258-09-CC-000-801-[REV A]
4. PIPES CONCRETE ENCASED SHOWN ACCORDINGLY: SUPPORT AS PER SEW-1205-V TYPE 12U
5. ALL LEVELS ELECTRONICALLY GENERATED. NO LEVEL BOOK AVAILABLE.
6. EXISTING AND PROPOSED SERVICES ARE INDICATIVE ONLY. CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING & PROPOSED SERVICES WERE NECESSARY PRIOR TO THE COMMENCEMENT OF WORK & APPROPRIATE PROCEDURES, PRECAUTIONS AND CARE TAKEN BY THE CONSTRUCTOR WHEN WORKING IN CLOSE PROXIMITY TO SERVICES DURING CONSTRUCTION AND ANY DAMAGE TO EXISTING SERVICES WERE RECTIFIED AT THE CONSTRUCTORS EXPENSE.
7. THE NUMBER OF FIELD COMPACTION TESTS COMPLETED TO SATISFY THE SEWERAGE CODE OF AUSTRALIA (CLAUSE 22.3.4.4) WERE:

- TRENCH FILL ZONE - NON-TRAFFICABLE: 1 PER 900mm LAYER PER 100m OF SEWER
MAIN - TOTAL No. OF TESTS: 70
M.H. & M.S. ZONE: 1 PER 1m DEPTH AT ONE LOCATION WITHIN 300mm OF EACH M.S.
& M.H. - TOTAL No. OF TESTS: 132
8. LOCATION OF SEWER LINES MARKED BY A REGISTERED LAND SURVEYOR PRIOR TO CONSTRUCTION
9. CONTRACTOR NOTIFIED WSC WHEN WATER CHARGED GROUND/UNSTABLE GROUND/GROUND CONDITIONS NOT SUITABLE FOR CONSTRUCTION AND STOPPED WORK UNTIL THEY HAVE BEEN INSTRUCTED BY WSC.
10. CONTRACTOR ENSURED TRENCH STABILITY, STABILITY OF PROBABLE ADJACENT SERVICES/POSSIBLE STRUCTURES WERE THE RESPONSIBILITY OF THE CONTRACTOR.
11. INVERT LEVEL OF EXISTING SEWER AT CHOO WAS CONFIRMED BY SURVEY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
12. SUBSURFACE CONDITIONS, INCLUDING GROUNDWATER, CONTAMINATION, UNRECORDED BURIED MATERIAL OR OBJECTS AND ARCHAEOLOGICAL SIGNIFICANT ITEMS ENCOUNTERED DURING CONSTRUCTION, REQUIRING FURTHER ENVIRONMENTAL, GEOTECHNICAL OR ARCHAEOLOGICAL ASSESSMENT AND APPLICATION OF APPROPRIATE CONSTRUCTION METHODS AND STANDARDS.
13. CONTRACTOR CONSTRUCTED FINISHED SURFACE LEVEL WITH CIVIL WORKS MAIN CONTRACTOR AT TIME OF CONSTRUCTION.
14. M.H. CONSTRUCTED IN ACCORDANCE WITH DTC-2000, DTC-2203, DTC-2220, DTC-2221 & DTC-2222
15. JUNCTION FOR PCS'S LOCATED MIN 0.7m OFF THE DOWNSTREAM PROPERTY BOUNDARY, DOWNSTREAM EASEMENT BOUNDARY OF 1.0m OFF THE EDGE OF THE MAINTENANCE STRUCTURE. ALL PCS LOCATIONS VERIFIED BY PROJECT MANAGER PRIOR TO INSTALLATION. ALL JUNCTIONS AND INSPECTION POINTS LOCATED CLEAR OF FUTURE DRIVEWAYS

↘ DENOTES PROPERTY CONNECTION SEWER (REFER DTC-2120)

LINE	CHAINAGE	EASTING (MGA 2020)	NORTHING (MGA 2020)	TYPE	DN RISER	CLASS OF COVER	MATERIAL	COMMENTS
1	0.00	288493.7652	6234139.7017	—	—	—	—	
1	24.49	288495.3393	6234115.2660	M.H.	DN1500	B	CONCRETE	WATER SEALED M.H.
1	86.80	288525.1199	6234060.5367	M.H.	DN1050	B	CONCRETE	DTC-2203
1	104.78	288539.8689	6234050.2532	M.H.	DN1050	B	CONCRETE	DTC-2203
1	109.56	288539.0687	6234045.5416	M.H.	DN1050	B	CONCRETE	DTC-2203
1	163.33	288564.3848	6233998.1038	M.H.	DN1050	B	CONCRETE	DTC-2203
1	167.92	288568.7295	6233996.6354	M.H.	DN1050	B	CONCRETE	DTC-2203
1	183.91	288576.6515	6233982.7445	M.H.	DN1050	B	CONCRETE	DTC-2203
1	188.65	288575.6645	6233978.1079	M.H.	DN1050	B	CONCRETE	DTC-2203
1	238.74	288599.2029	6233933.8929	M.C.	600	B	PP	AWASHAFT PP 600 (AG 45° CONFIGURATION)
1	243.27	288603.5745	6233932.700	M.H.	DN1050	B	CONCRETE	DTC-2203
1	269.93	288627.0305	6233945.3746	M.C.	600	B	PP	AWASHAFT PP 600 (180° CONFIGURATION)
1	317.53	288667.7353	6233970.0483	T.M.S.	225	B	PVC-U	
2	26.40	288519.7420	6234125.1907	M.C.	600	B	PP	AWASHAFT PP 600 (180° CONFIGURATION)
2	110.90	288591.8289	6234169.2788	M.C.	600	B	PP	AWASHAFT PP 600 (180° CONFIGURATION)
2	199.73	288667.6194	6234215.6008	M.H.	DN1050	B	CONCRETE	DTC-2203
2	219.93	288686.5049	6234222.7873	M.H.	DN1050	B	CONCRETE	DTC-2203
2	224.49	288687.8475	6234227.1435	M.H.	DN1050	B	CONCRETE	DTC-2203
2	275.52	288731.8172	6234253.0315	M.H.	DN1050	B	CONCRETE	DTC-2203
2	295.78	288750.7742	6234260.1959	M.H.	DN1050	B	CONCRETE	DTC-2203
2	300.93	288752.3432	6234265.0994	M.C.	600	B	PP	AWASHAFT PP 600 (AG 45° CONFIGURATION)
2	313.17	288762.9534	6234271.2044	T.M.S.	225	B	PVC-U	
3	59.35	288575.8860	6234091.2886	M.H.	DN1050	B	CONCRETE	DTC-2203
3	76.50	288588.3528	6234079.5105	M.C.	600	B	PP	AWASHAFT PP 600 (AG 60° CONFIGURATION)
3	188.05	288683.4269	6234137.8635	T.M.S.	225	B	PVC-U	
4	70.42	288635.9679	6234128.0241	M.S.	300	B	PVC-U	
4	139.33	288694.7374	6234164.0178	T.M.S.	225	B	PVC-U	
5	68.58	288627.3605	6234032.2056	M.H.	DN1050	B	CONCRETE	DTC-2203
5	84.87	288636.0054	6234018.3968	T.M.S.	225	B	PVC-U	
6	104.04	288716.2300	6234086.3020	T.M.S.	225	B	PVC-U	
7	77.29	288727.9326	6234157.5414	M.C.	600	B	PVC-U	AWASHAFT PP 600 (RML 270° CONFIGURATION)
7	144.86	288763.7286	6234100.2078	T.M.S.	225	B	PVC-U	
8	16.47	288714.0193	6234148.7284	M.C.	600	B	PP	AWASHAFT PP 600 (ML 90° CONFIGURATION)
8	58.23	288736.1389	6234113.3124	T.M.S.	225	B	PVC-U	
9	0.0	288751.1157	6234260.3825	M.H.	DN1050	B	PVC-U	
9	25.20	288764.4922	6234239.0564	—	—	—	—	

16. AREAS BOUND THUS NOT DRAINED
17. THE CONSTRUCTOR LIASED WITH CIVIL CONTRACTOR TO VERIFY THE PROPOSED FINISHED SURFACE LEVEL. IF THE PROPOSED FINISHED SURFACE LEVEL DIFFER FROM TABLE 'A', THE CONSTRUCTOR CONTACTED WSC .
18. DTC – 2223 USED FOR SLAB DETAIL.
19. THE FOLLOWING WORK METHODOLOGY (MH ADJUSTMENT) WAS FOLLOWED:
 - CONSTRUCTOR CONFIRMED PFSL WITH SITE SUPERINTENDENT
 - REMOVED ACCESS COVER AND FRAME
 - REMOVED CONVERTER SLAB
 - CUT MH WALLS AS PER TABLE 'A'
 - DRILLED HOLES SUITABLE FOR N16 DOWELS AT 150 CENTRES INTO THE WALL IN LINE WITH EXISTING REI
 - DOWELED SET IN EXISTING WALL USING HILTI HIT-RE 500E
 - REINFORCEMENT WAS AS PER SP1 TO BE TIED TO N16 DOWELS
 - PREPARED CONSTRUCTION JOINT AS PER DTC-2220
 - POURED CONCRETE TO NEW HEIGHT . LINER JOINED WITH THE SAME METHODOLOGY AS NORMALLY DONE FOR A NEW CONCRETE LIFT. NEWLY LINED SECTIONS TESTED TO WSA-201. CONCRETE STRENGTH FOR ALL LIFTS TO BE 40MPa.
 - ROOFSLAB WAS AS PER RELEVANT DTC DRAWING
20. FOR CONSTRUCTION METHODOLOGY, REFER TO ITEM 8 ON PAGE 16 OF SEA REPORT.
21. STRUCTURAL CALCULATIONS OF IMPACTS ON SYDNEY WATER ASSETS, PLEASE REFER TO ITEM 6 ON PAGE 6 OF SEA REPORT

3	WORK AS CONSTRUCTED	R.A.	09.02.24
2	WATERSEAL MH DIAMETER UPDATED	P.P.	03.05.23
1	ISSUE FOR APPROVAL	P.P.	08.09.22
No.	AMENDMENT DESCRIPTION	BY	DATE

[illegible]

WORK AS CONSTRUCTED CERTIFICATION			
DEVELOPER	MIRVAC HOMES (NSW) PTY LTD		
WATER SERVICE CO-ORDINATOR	ORION CONSULTING ENGINEERS PTY LTD		
CONSTRUCTOR	CAREY CONSTRUCTION PTY LTD		
COMPLETED	29.01.2024	W.A.C. PREPARED	09.02.2024
DESIGNER	ORION CONSULTING ENGINEERS PTY LTD		
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
225	U.P.V.C.	SN8	399.97	
150	U.P.V.C.	SN8	974.58	
DESIGN HEAD. . . m			NO BOUNDARY TRAPS REQUIRED.	

GDA2020 AUSTRALIAN HEIGHT DATUM SCALES PLAN . 1:500 . SECTION { <table style="display: inline-table; vertical-align: middle;"> <tr> <td style="padding: 0 10px;">HOR. .</td> <td style="padding: 0 10px;">1:500 .</td> </tr> <tr> <td style="padding: 0 10px;">VERT. .</td> <td style="padding: 0 10px;">1:125 .</td> </tr> </table>		HOR. .	1:500 .	VERT. .	1:125 .
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 304, B13 (41st ED)

SHEET . 1 . OF . 8 .	File No. EN303433 T3 Stg.
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	SYDNEY WATER CORPORATION
Case No. 201349WW	
WEST CAMDEN SEWERAGE DRAINS TO WEST CAMDEN STP VIA SP1161 AND SP0673	