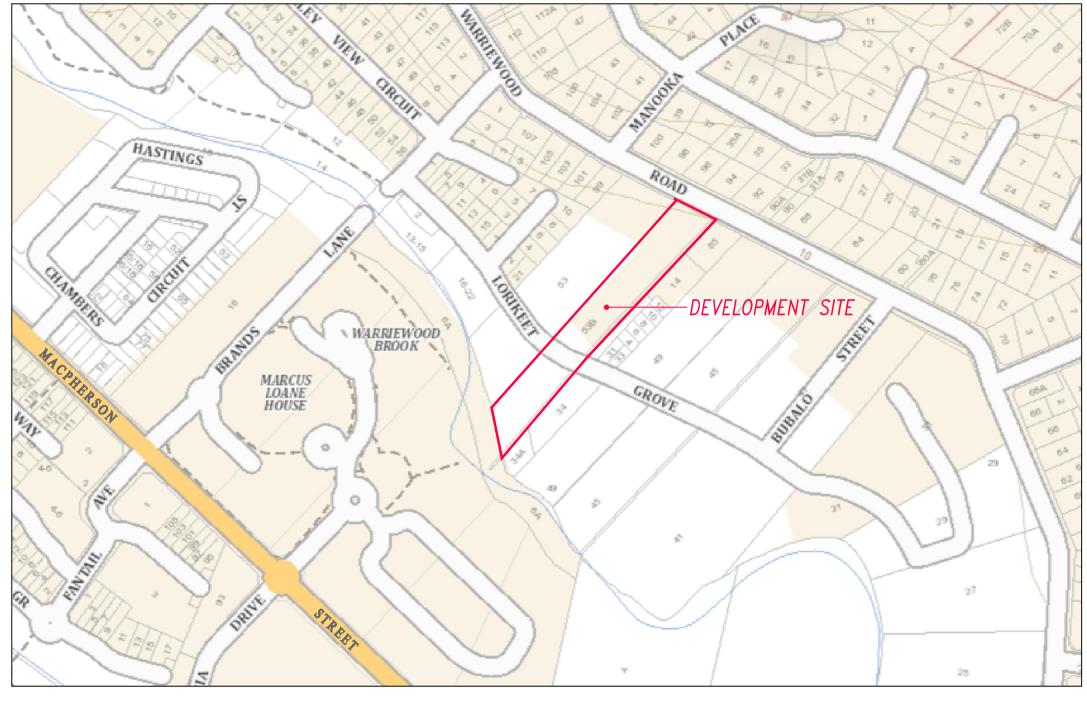
0	10	20	30	40	50
ш					METRES

	DRAWING LIST		
DWG. No.	TITLE	REVISION	DATE
1-X	COVER SHEET	01	
2-X	GENERAL LAYOUT 1 OF 1	01	
3-X	LONGITUDINAL SECTION 1, 2 & 3	01	

MAINTENANCE OTRUCTURE COUERUILE						
MAINTENANCE STRUCTURE SCHEDULE						
LINE No.	CHAINAGE	TYPE	DN RISER	CLASS OF COVER	MATERIAL	COMMENTS
1	0.00	M.H.	1200	В	CONC.	DTC-2202 ISSUE E 18-MAR-15
1	30.77	T.M.S.	300	В	PVC	AYMROO TERMINAL ELBOW OR APP'D EQUIV.
1	49.03	M.S.	225	В	PVC	AYMROO CENTRAL ACCESS M.S. OR APP'D EQUIV.
1	57.88	M.S.	225	В	PVC	AYMROO CENTRAL ACCESS M.S. OR APP'D EQUIV.
1	143.38	T.M.S.	225	В	PVC	AYMROO TERMINAL ELBOW OR APP'D EQUIV.
2	12.23	T.M.S.	225	В	PVC	AYMROO TERMINAL ELBOW OR APP'D EQUIV.
3	0.00	M.S.	225	В	PVC	AYMROO CENTRAL ACCESS M.S. OR APP'D EQUIV.
3	7.82	M.S.	225	В	PVC	AYMROO CENTRAL ACCESS M.S. OR APP'D EQUIV.
3	22.36	T.M.S.	225	В	PVC	AYMROO TERMINAL ELBOW OR APP'D EQUIV.



LOCALITY PLAN (NOT TO SCALE)

NOTES :-

WATER SERVICING CO-ORDINATOR, SURVEY, DESIGN & FINAL PLANS PREPARED BY: MetroWater MANAGEMENT P.O. BOX 3220, RHODES NSW 2138 PH. 9876-8395 FAX 9869-2341

FOR: XX PTY LTD

ALL LOTS WERE VACANT AT TIME OF SURVEY.

2. ALL STRUCTURES TO BE CONSTRUCTED TO PROPOSED FINISHED SURFACE LEVELS. THE CONSTRUCTOR IS TO LIAISE WITH THE SITE SUPERINTENDENT/CIVIL CONTRACTOR TO VERIFY ALL FINAL LEVELS.

3. PIPES TO BE CONCRETE ENCASED SHOWN ACCORDINGLY:

4. ALL LEVELS ELECTRONICALLY GENERATED. NO LEVEL BOOK AVAILABLE.

5. SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE NECESSARY PRIOR TO COMMENCEMENT OF THE WORK AND APPROPRIATE PROCEDURES, PRECAUTIONS AND CARE NEEDS TO BE TAKEN WHEN WORKING WITHIN CLOSE PROXIMITY OF ANY SERVICES. ANY DAMAGE TO EXISTING SERVICES TO BE RECTIFIED AT THE CONTRACTOR'S EXPENSE.

6. THE CONSTRUCTOR IS TO DETERMINE LEVELS & LOCATIONS OF SERVICES PRIOR TO CONSTRUCTION.

7. THE PROPOSED WORKS DETAILED HERE ON TO BE CONSTRUCTED IN ACCORDANCE WITH THE: WATER SERVICES ASSOCIATION OF AUSTRALIA - SEWERAGE CODE OF AUSTRALIA WSA 02-2002-2.2 - SYDNEY WATER EDITION - VERSION 4 - 2017. THE CONTRACTOR MUST HAVE A COPY OF THIS DOCUMENT ON SITE AT ALL TIMES.

8. THE MINIMUM NUMBER OF FIELD COMPACTION TESTS REQUIRED TO SATISFY THE SEWERAGE CODE OF AUSTRALIA - SYDNEY WATER EDITION - VERSION 4 ARE:

i) PIPE EMBEDMENT ZONE: NIL (USING 7mm/10mm/14mm SINGLE SIZE AGGREGATES)

ii) TRENCH FILL ZONE - TRAFFICABLE: (1 TEST PER 300mm LAYER PER 50m OF SEWER MAIN) TOTAL No. OF TESTS: NIL (USING 14:1 SAND/CEMENT STABLISER)

iii) TRENCH FILL ZONE - NON-TRAFFICABLE: (1 TEST PER 900mm LAYER PER 100m OF SEWER MAIN) TOTAL No. OF TESTS: XX

iv) FOR M.S.s & M.H.s: (1 TEST PER 1m DEPTH AT ONE LOCATION WITHIN 300mm OF EACH M.S. & M.H.) TOTAL No. OF TESTS: XX

NOT FOR CONSTRUCTION

9. PROPERTY CONNECTION SEWERS (P.C.S.) ARE TO BE CONSTRUCTED IN WATER SERVICES ASSOCIATION OF AUSTRALIA — SEWERAGE CODE OF AUSTRALIA WSA 02-2002-2.2 - SYDNEY WATER EDITION - VERSION 4 - 2017.

10. AREAS DOWNSLOPE OF CONSTRUCTION ACTIVITY TO BE ADEQUATELY PROTECTED FROM SEDIMENT POLLUTION ETC. SILT TRAP DEVICES TO BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY, EFFECTIVELY MAINTAINED AND TO BE REMOVED ONLY AFTER THE AREA HAS BEEN SATISFACTORILY REVEGETATED

11. SILTATION CONTROLS, SITE RESTORATION AND ENVIRONMENTAL REQUIREMENTS TO BE CARRIED OUT TO THE SATISFACTION OF THE WATER SERVICES CO-ORDINATOR OR THEIR FIELD REPRESENTATIVE.

12. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OUTLINED IN THE REVIEW OF ENVIRONMENTAL FACTORS (R.E.F.), PROJECT SAFETY PLAN (P.S.P.) AND THE INSPECTION TEST PLAN (I.T.P.) ASSOCIATED WITH THIS DESIGN.

13. UNLESS NOTED OTHERWISE, ALL M.H.'S TO BE CONSTRUCTED IN ACCORDANCE WITH DEEMED-TO-COMPLY DRAWING DTC-2203 ISSUE B 18-MAR-15, READ IN

CONJUNCTION WITH; * DTC-2000 ISSUE C DATED 18-MAR-15 * DTC-2220 ISSUE D DATED 18-MAR-15

* DTC-2221 ISSUE B DATED 01-MAR-13 * DTC-2222 ISSUE C DATED 18-MAR-15

14. ALL M.S. DEFLECTION ANGLES ARE MEASURED FROM THE DOWNSTREAM IN A CLOCKWISE DIRECTION.

15. $\angle C_S$ DENOTES P.C.S. CONNECTION (REFER SEW-1151-S).

16. M.H. AT CH.O.OO LINE 1 TO BE DN1200, CONSTRUCTED IN ACCORDANCE WITH DEEMED-TO-COMPLY DRAWING DTC-2202 ISSUE E 18-MAR-15, READ IN

CONJUNCTION WITH: * DTC-2000 ISSUE C DATED 18-MAR-15

* DTC-2220 ISSUE D DATED 18-MAR-15 * DTC-2221 ISSUE B DATED 01-MAR-13 * DTC-2222 ISSUE C DATED 18-MAR-15

* DTC-2223 ISSUE B DATED 18-MAR-15

REF: 076-18

Desig	No.	AMENDMENT DESCRIPTION
−18\MetroWater\D	WIT	PLAN TO BE READ IN CONJUNCTION TH CURRENT SYDNEY WATER STANDARDS SYDNEY WATER CORPORATION
Metro		OR TO COMMENCEMENT OF EXCAVATION FOR ROPOSED AND EXISTING SERVICES CONTACT:
(076-18\	ELEC GAS	BEFORE YOU DIG Ph. 1100 CTRICITY AUSGRID Ph. 131 388 JEMENA GAS Ph. 131 909 CCOMMUNICATIONS TELSTRA Ph. 132 203 Ph

01 ORIGINAL ISSUE

TYPE WATER: DN100 Water ----GIVING AT LEAST 48 HOURS NOTICE.

R.C.

BY

DATE

DATE REF. FEB'2019 HYDRA PROP STORMWATER: SWD — — — SWD FEB'2019 | ENG GAS: — -- G -- G — FEB'2019 SURVEY

COMMS: -- TEL -- TEL - FEB'2019 SURVEY AUSGRID: — - - E - - - E — FEB'2019 | SURVEY

WORK AS CONSTRUCTED CERTIFICATION UTILITIES TYPE DATE REF. DEVELOPER WATER SERVICE CO-ORDINATOR CONSTRUCTOR W.A.C. PREPARED COMPLETED I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.

150 U.P.V.C. SN8 177.97

PIPE SCHEDULE ALL LEVELS REFER TO A PLANE 20m BELOW SIZE TYPE CLASS LENGTH PIPE JOINING METHOD / NOTES AUSTRALIAN HEIGHT DATUM SCALES (HOR. 1:500 PLAN 1:500 SECTION l _{VERT.} 1:125 CROSS SECTIONS NATURAL BOUNDARY TRAPS LENGTHS. DEPTHS & LEVELS ARE IN METRES.

NO AMENDMENTS ARE TO BE MADE TO THIS PLAN WITHOUT REFERENCE TO SYDNEY WATER. THIS PLAN

VERIFIED: M.T.

ŴAŤ≅R IS NOT NECESSARILY UP TO DATE OR CORRECT AND SYDNEY WATER ACCEPTS NO RESPONSIBILITY. U.B. DIRECTORY 138, F8 (41st ED) SHEET. 1. OF . 3. File No. N/A

Case No.172797WW PITTWATER SEWERAGE NARRABEEN CREEK CARRIER DRAINS TO WARRIEWOOD S.T.W.

MetroWater REFERENCE: 176.18

REQUIRED.

DESIGNED: R.C.

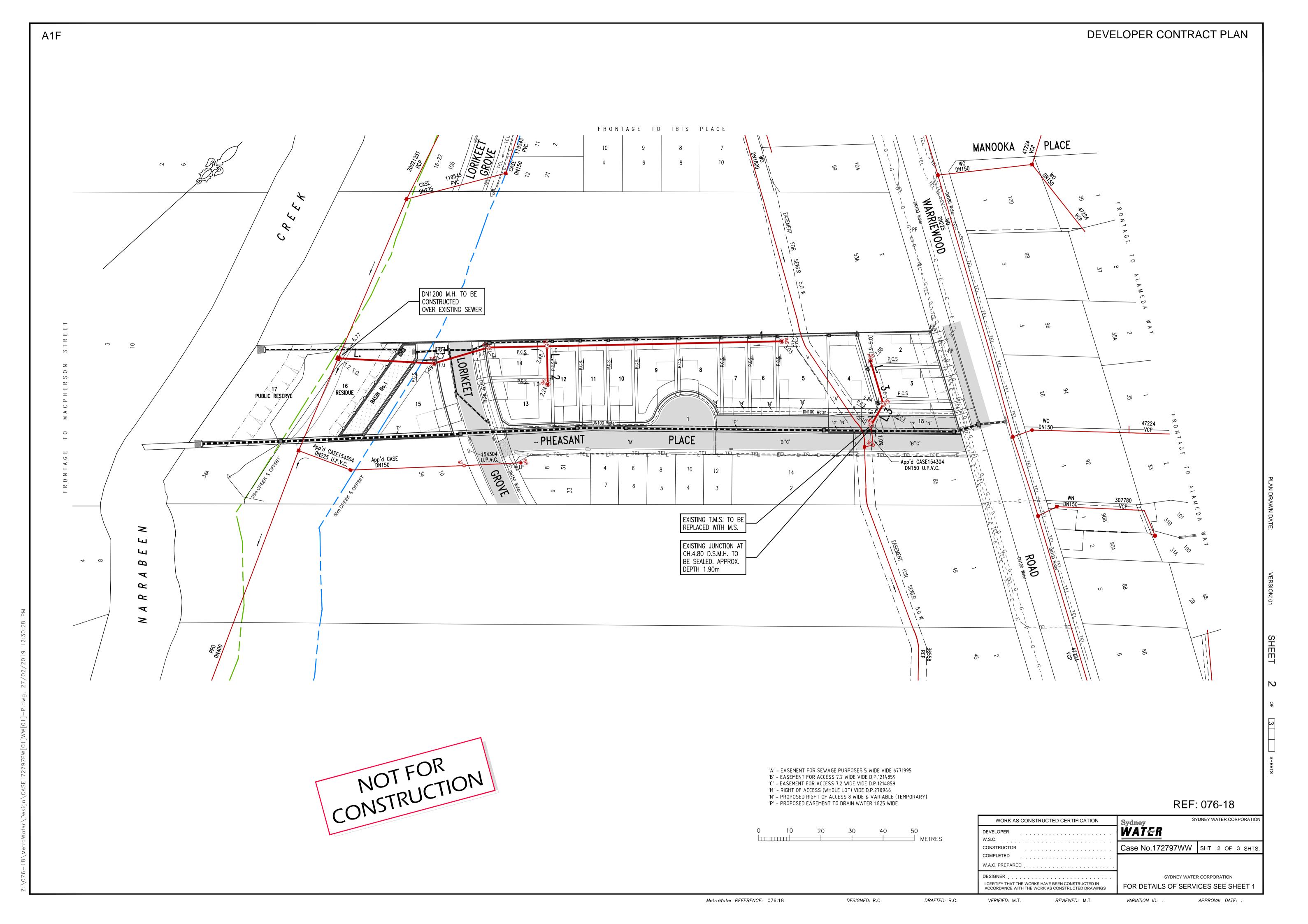
DRAFTED: R.C.

REVIEWED: M.T

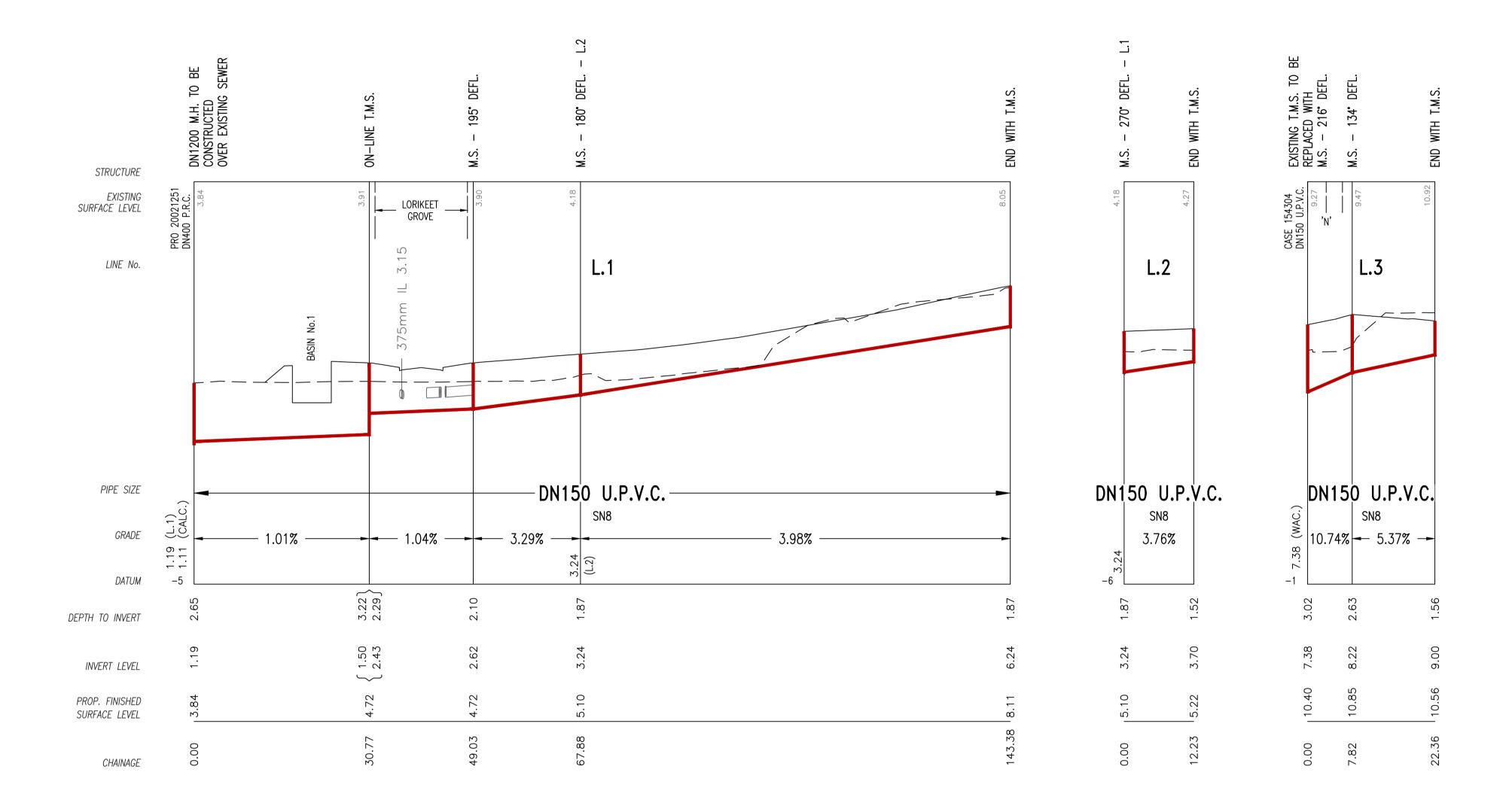
VARIATION ID:

APPROVAL DATE:

SYDNEY WATER CORPORATION



DEVELOPER CONTRACT PLAN A1F



NOTFOR

REF: 076-18

WORK AS CONSTRUCTED CERTIFICATION	Sydney SY	DNEY WATER CORPORATION
DEVELOPER	<u>WATER</u>	
CONSTRUCTOR	Case No.172797WW	SHT 3 OF 3 SHTS.
COMPLETED W.A.C. PREPARED		
DESIGNER	SYDNEY WATER FOR DETAILS OF SERV	R CORPORATION

MetroWater REFERENCE: 076.18

DESIGNED: R.C.

DRAFTED: R.C.

VERIFIED: M.T.

VARIATION ID:

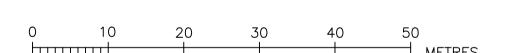
APPROVAL DATE:



DRAWING LIST TITLE REVISION DATE 01 1-XCOVER SHEET 01 2-XGENERAL LAYOUT 1 OF 2 01 GENERAL LAYOUT 2 OF 2

> ✓ CAUTION EXISTING SERVICES ALLOCATED IN FOOTPATH RESERVE ARE SUBJECT TO VARIABLE PLACEMENT. THE CONTRACTOR IS REQUIRED TO ACQUIRE THE LATEST SEARCH INFORMATION & FIELD CHECK AT THE TIME OF WORKS.

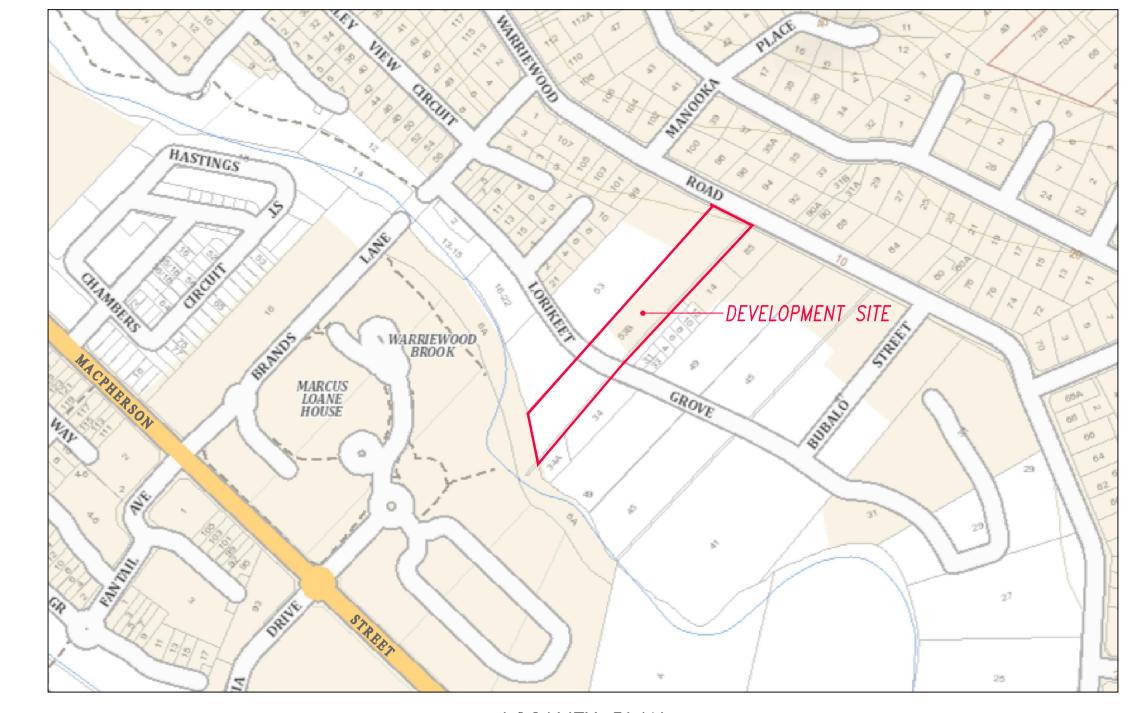
> > ✓ CAUTION OVERHEAD POWERLINES & TELSTRA CABLES EXIST IN THE VICINITY OF WORKS



No.	DESCRIPTION	DRAWING No.
1	HORIZONTAL BENDS	DTC-1110
2	TAPERS	DTC-1112
3	TEES	DTC-1113
4	VERTICAL BENDS & HYDRANT BENDS	DTC-1114

TABLE 1: APPLICABLE DEEMED-TO-COMPLY DRAWINGS

NOTFOR
CONSTRUCTION



LOCALITY PLAN (NOT TO SCALE)

NOTES :-

WATER SERVICING CO-ORDINATOR SURVEY, DESIGN & FINAL PLANS PREPARED BY: MetroWater MANAGEMENT P.O. BOX 3220, RHODES NSW 2138 PH. 9876-8395 FAX 9869-2341

FOR: XX PTY LTD

PH. XX

1. P.V.C. MAIN TO BE LAID GENERALLY 3.0 P.L. AT STANDARD DEPTH BELOW TOP OF KERB EXCEPT WHERE OTHERWISE INDICATED.

2. THE PROPOSED WORKS DETAILED HERE ON TO BE CONSTRUCTED IN ACCORDANCE WITH THE: WATER SERVICES ASSOCIATION OF AUSTRALIA - WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1 SYDNEY WATER EDITION - 2014. THE CONTRACTOR MUST HAVE A COPY OF THIS DOCUMENT ON SITE AT ALL TIMES.

3. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OUTLINED IN THE REVIEW OF ENVIRONMENTAL FACTORS (R.E.F.) ASSOCIATED WITH THIS DESIGN.

4. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS IN THE PROJECT SAFETY PLAN (P.S.P.) ASSOCIATED WITH THIS DESIGN.

5. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS IN THE INSPECTION TEST PLAN (I.T.P.) ASSOCIATED WITH THIS DESIGN.

6. THE CONTRACTOR TO SUBMIT A CONSTRUCTION PROGRAM TO THE PROJECT MANAGER PRIOR TO COMMENCEMENT OF WORKS INCLUDING: a. ENVIRONMENTAL MANAGEMENT PLAN (EMP) b. PROJECT SAFETY PLAN c. FLOW MANAGEMENT PLAN (IF APPLICABLE)

7. SILTATION CONTROLS, SITE RESTORATION AND ENVIRONMENTAL REQUIREMENTS TO BE CARRIED OUT TO THE SATISFACTION OF THE WATER SERVICES CO-ORDINATOR OR THEIR FIELD REPRESENTATIVE

8. MAIN LAYING NOT TO PROCEED PRIOR TO THE FORMATION OF FOOTWAYS TO FINISHED SURFACE LEVELS.

9. JOINT USE OF UTILITY SERVICES TRENCH IN THIS AREA.

10. THE MINIMUM NUMBER OF FIELD COMPACTION TESTS REQUIRED TO SATISFY STANDARDS IS AS FOLLOWS:

(i) TRENCHES IN ROADWAY:-TRENCH FILL ZONE TO BE BACKFILLED USING 14:1 SAND/CEMENT MIX TO ROADBASE LEVEL, NO COMPACTION REQUIRED. (ii) TRENCHES NOT IN ROADWAY:-

TRENCH FILL ZONE: (1 TEST PER 900mm LAYER/100m) = XX (iii) EMBEDMENT ZONE:- NIL

(USING 7mm/10mm/14mm SINGLE-SIZED AGGREGATES)

11. MAIN TO METER WATER SERVICE CONNECTION POSITIONS SHOWN THUS:-

PROPOSED ROAD CROSSINGS
PROPOSED TWIN WATER SERVICES PROPOSED SINGLE WATER SERVICE

12. ALL WATER MAINS TO BE CONSTRUCTED OVER STORMWATER DRAINS UNLESS NOTED OTHERWISE.

13. ALL VALVES AND FITTINGS TO BE RESTRAINED IN ACCORDANCE WITH RELEVANT DEEMED-TO-COMPLY DRAWINGS (REFER TO TABLE 1).

14. SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE NECESSARY PRIOR TO COMMENCEMENT OF THE WORK AND APPROPRIATE PROCEDURES, PRECAUTIONS AND CARE NEED TO BE TAKEN WHEN WORKING WITHIN CLOSE PROXIMITY OF ANY SERVICES. ANY DAMAGE TO EXISTING SERVICES TO BE RECTIFIED AT THE CONTRACTOR'S EXPENSE.

15. ALL PROPERTY (MAIN TO METER) SERVICES MUST BE CONSTRUCTED TO SYDNEY WATER'S INSTALLATION REQUIREMENTS BY A LICENSED PLUMBER. THE WORKS MUST BE INSTALLED IN ACCORDANCE WITH THE CURRENT SYDNEY WATER PROPERTY (MAIN TO METER) SERVICE INSTALLATIONS TECHNICAL REQUIREMENTS, NSW CODE OF PRACTICE FOR PLUMBING AND DRAINAGE AND AS/NZS3500.

16.

→ DENOTES WHERE THE NEW MAIN CROSSES A ROADWAY, A MINIMUM OF 750mm COVER SHALL BE MAINTAINED BELOW THE ROAD PAVEMENT.

17. DEFLECTIONS MAY BE ACHIEVED BY EASING MAIN AT PIPE JOINTS. PIPE DEFLECTIONS SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATION.

18. CONSTRUCTOR TO INVESTIGATE MAIN CONNECTION LOCATION PRIOR TO MAINLAYING, WHICH COULD INCLUDE POTHOLING ADJACENT SERVICES THAT MAY IMPACT THE CONNECTION.

REF: 076-18

AMENDMENT DESCRIPTION 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 ELECTRICITY AUSGRID Ph. 131 388 TELECOMMUNICATIONS TELSTRA Ph. 132 203

01 ORIGINAL ISSUE

R.C.

BY

DATE

GIVING AT LEAST 48 HOURS NOTICE.

DATE REF. TYPE SEWER: s — s FEB'2019 HYDRA PROP SEWER: S ----- S FEB'2019 MetWat PROP STORMWATER: SWD — — SWD FEB'2019 ENG AUSGRID: — - - E - - - E — FEB'2019 SURVEY

TYPE DATE REF.

UTILITIES

DEVELOPER CONSTRUCTOR COMPLETED

WORK AS CONSTRUCTED CERTIFICATION WATER SERVICE CO-ORDINATOR W.A.C. PREPARED I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.

TYPE CLASS LENGTH PIPE JOINING METHOD / NOTES 150 P.V.C. PN16 100 P.V.C. PN16 BOUNDARY TRAPS DESIGN HEAD 120 m REQUIRED.

PIPE SCHEDULE

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

SHEET. 1. . OF . 2.

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 138, F8 (41st ED)

WATER Case No.172797PW POTABLE WATER MAIN EXTENSION PROPOSED ESTATE ROADS 53B WARRIEWOOD ROAD WARRIEWOOD NORTH'N BEACHES

MetroWater REFERENCE: 076.18

DESIGNED: R.C.

DRAFTED: R.C.

VERIFIED: M.T. REVIEWED: M.T

File No. N/A

VARIATION ID:

Sydney

APPROVAL DATE:

SYDNEY WATER CORPORATION

