

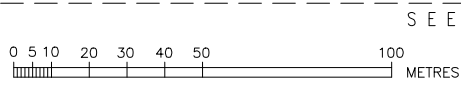


- * EASEMENT FOR DRAINAGE 3.5 WIDE
- EASEMENT FOR DRAINAGE 3.0 WIDE
- ⊕ EASEMENT FOR DRAINAGE 2.5 WIDE
- ⊗ EASEMENT FOR DRAINAGE 1.2 WIDE
- ⊙ EASEMENT ACCESS AND MAINTENANCE 2.5 WIDE
- ⊚ EASEMENT FOR WATER SUPPLY 2.5 WIDE
- ⊛ POSITIVE COVENANT
- ▨ ABORIGINAL HERITAGE AREA.

CONSTRUCTION NOTES

THE PROPOSED WORKS AS DETAILED HEREON CONSTRUCTED IN ACCORDANCE WITH THE WATER RETICULATION CODE OF AUSTRALIA - WSA 03-2011-3.1 SYDNEY WATER EDITION 2014 AND SYDNEY WATER 'DEEMED TO COMPLY' DRAWINGS INCLUDING DTC-1110 (ISS. A, 31/01/12) (DTC-1111 (ISS. 29/02/12) IF REQUIRED), DTC-1112 (ISS. B, 19/02/12) DTC-1113 (ISS. B, 29/02/12), DTC-1114 (ISS. A, 31/01/12) & DTC-1115 (ISS. B, 29/02/12).

CONTACT DIAL BEFORE YOU DIG



- NOTES :
- WATER SERVICING COORDINATOR AND DESIGNER: CALIBRE CONSULTING (NSW) PTY LTD
P.O. BOX 8300 BAULKHAM HILLS BC NSW 2153
Ph: (02) 8808 5000
FOR:
NORTH RICHMOND JOINT VENTURE REDBANK
SUITE 4 LEVEL 1 8-10 CASTLEREAGH ST PENRITH NSW 2750
Ph: (02) 4760 1400
 - MAIN LAID GENERALLY 4.85m P.L. AT STANDARD DEPTH BELOW TOP OF KERB EXCEPT WHERE OTHERWISE SHOWN.
 - MAIN LAID OVER STORMWATER & SEWER LINES UNLESS OTHERWISE INDICATED.
 - ALL MAINS LAID IN EXISTING OR PROPOSED ROAD CARRIAGEWAYS BACKFILLED WITH 14:1 CEMENT STABILISED SAND.
 - THRUST/ANCHOR BLOCKS CONSTRUCTED AT ALL BENDS, TEES, TAPERS, FITTINGS & PARTS OF PIPELINE WHERE UNBALANCED THRUST OCCURS. REFER SYDNEY WATER DEEMED TO COMPLY DRAWING DTC-1110 (BENDS), DTC-1111 (TYPE 2 BENDS- IF REQUIRED), DTC-1113 (TEES) & DTC-1114 (HYDRANT BENDS).
 - THRUST BLOCKS AT CONNECTION POINTS PREPOURED AGAINST UNDISTURBED GROUND AND CURED FOR A MINIMUM 7 DAYS BEFORE SUBJECT TO THRUST LOADINGS.

- ALL PROPERTY (MAIN TO METER) SERVICES CONSTRUCTED TO SYDNEY WATER'S INSTALLATION REQUIREMENTS BY A LICENSED PLUMBER. THE WORKS 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.
- THE MINIMUM NUMBER OF FIELD COMPACTION TESTS REQUIRED TO SATISFY THE WATER SUPPLY CODE OF AUSTRALIA AND THE SITE SPECIFIC COMPACTION SPECIFICATION ARE:
PIPE EMBEDMENT ZONE: - 37
TRENCH FILL ZONE:
- TRAFFICABLE: NIL SEE NOTE 4
- NON-TRAFFICABLE: - 111
- DICL PIPES AND FITTINGS WRAPPED IN BLUE POLYETHYLENE SLEEVING
- NOTE THAT PIPE SCHEDULE DOES NOT INCLUDE D.I.C.L PIPE REQUIRED FOR S.V. ANCHORING.

SITE SPECIFIC COMPACTION SPECIFICATION

WITHIN FULL WIDTH OF ROAD CARRIAGEWAY PLUS 1.0M EITHER SIDE -

- ALL SUBGRADE SHALL BE CARRIED UP IN HORIZONTAL LAYERS, OF NOT MORE THAN 300MM THICK LOOSE MEASUREMENT, IF REQUIRED, AND SHALL HAVE EACH LAYER COMPACTED TO A 100% STANDARD DRY DENSITY RATIO DETERMINED IN ACCORDANCE WITH AS 1289 5.4.1-2007 'COMPACTION CONTROL TEST - DRY DENSITY RATIO, MOISTURE VARIATION AND MOISTURE RATIO'.
- ALL SUB-BASE COURSE SHALL BE PLACED AND COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO DETERMINED IN ACCORDANCE WITH AS 1289 5.4.1-2007 'COMPACTION CONTROL TEST - DRY DENSITY RATIO, MOISTURE VARIATION AND MOISTURE RATIO'.
- ALL BASE COURSE SHALL BE PLACED AND COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO DETERMINED IN ACCORDANCE WITH AS 1289 5.4.1-2007 'COMPACTION CONTROL TEST - DRY DENSITY RATIO, MOISTURE VARIATION AND MOISTURE RATIO'.
- ALL ROAD CROSSINGS TO BE PROVIDED IN EXISTING ROADS, THE TRENCHES SHALL BE BACKFILLED AND COMPACTED WITH A SAND/CEMENT BLEND 20:1 MIX TO SUBGRADE LEVEL, THEN D6220 TO WITHIN 50MM OF THE ROAD SURFACE, OR IF REQUIRED TO A HIGHER SPECIFICATION BY A SPECIFIC UTILITY AUTHORITY, TO THAT SPECIFICATION AS INSTRUCTED BY THE PROJECT SUPERINTENDENT.
- ALL TESTS TO BE TAKEN EVERY 50 METRE LENGTH OF PAVEMENT, TAKEN 1.0M FROM ALTERNATE SIDES OF PAVEMENT, BY A NATA REGISTERED LABORATORY.
- THESE AND ALL OTHER REQUIREMENTS TO BE COMPLIED WITH, TO BE READ IN CONJUNCTION WITH HAWKESBURY CITY COUNCIL DCP PART II - CONSTRUCTION SPECIFICATION.
- ANY ERRORS, OMISSIONS OR QUERIES TO BE SUBMITTED TO THE PROJECT SUPERINTENDENT FOR INSTRUCTION.

WITHIN FULL WIDTH OF ROAD FOOTPATH / VERGE EXCLUDING 1.0M BESIDE ROAD CARRIAGEWAY EITHER SIDE -

- ALL FILL SHALL BE CARRIED OUT IN HORIZONTAL LAYERS, EXTENDING THE FULL WIDTH OF THE AREA BEING FILLED, OF NOT MORE THAN 300MM CONSOLIDATED THICKNESS. EACH LAYER SHALL BE COMPACTED TO A DENSITY OF AT LEAST 98% STANDARD DRY DENSITY RATIO DETERMINED IN ACCORDANCE WITH AS 1289 5.4.1-2007 'COMPACTION CONTROL TEST - DRY DENSITY RATIO, MOISTURE VARIATION AND MOISTURE RATIO'.
- ALL TESTS TO BE TAKEN EVERY 50 METRE LENGTH OF ROAD FOOTPATH / VERGE ON CENTRELINE, BY A NATA REGISTERED LABORATORY.
- ALL TRENCHES TO BE BACKFILLED TO HAVE THE SAME COMPACTION AS THE SURROUNDING ROAD FOOTPATH / VERGE.
- ALL TRENCH TESTS TO BE TAKEN IN EACH 300MM LAYER AND EVERY 50 METRES OF TRENCH, BY A NATA REGISTERED LABORATORY.
- THESE AND ALL OTHER REQUIREMENTS TO BE COMPLIED WITH, TO BE READ IN CONJUNCTION WITH HAWKESBURY CITY COUNCIL DCP PART II - CONSTRUCTION SPECIFICATION.
- ANY ERRORS, OMISSIONS OR QUERIES TO BE SUBMITTED TO THE PROJECT SUPERINTENDENT FOR INSTRUCTION.

WITHIN LOTS -

- ALL FILL SHALL BE CARRIED OUT IN HORIZONTAL LAYERS, EXTENDING THE FULL WIDTH OF THE AREA BEING FILLED, OF NOT MORE THAN 300MM CONSOLIDATED THICKNESS. EACH LAYER SHALL BE COMPACTED TO A DENSITY OF AT LEAST 98% STANDARD DRY DENSITY RATIO DETERMINED IN ACCORDANCE WITH AS 1289 5.4.1-2007 'COMPACTION CONTROL TEST - DRY DENSITY RATIO, MOISTURE VARIATION AND MOISTURE RATIO'.
- THE DEPTHS OF FILL AND THE COMPACTION THEREOF ARE TO BE VERIFIED BY THE SUBMISSION OF COMPACTION CERTIFICATES AND A PLAN SHOWING CONTOURED DEPTHS OF FILL IN RELATION TO LOT BOUNDARIES.
- ALL TESTS TO BE A MINIMUM OF TWO COMPACTION TESTS PER LOT PER LAYER ARE TO BE CARRIED OUT, BY A NATA REGISTERED LABORATORY.
- ALL TRENCHES TO BE BACKFILLED TO HAVE THE SAME COMPACTION AS THE SURROUNDING LOTS.
- ALL TRENCH TESTS TO BE TAKEN IN EACH 300MM LAYER AND EVERY 50 METRES OF TRENCH, BY A NATA REGISTERED LABORATORY.
- THESE AND ALL OTHER REQUIREMENTS TO BE COMPLIED WITH, TO BE READ IN CONJUNCTION WITH HAWKESBURY CITY COUNCIL DCP PART II - CONSTRUCTION SPECIFICATION.
- ANY ERRORS, OMISSIONS OR QUERIES TO BE SUBMITTED TO THE PROJECT SUPERINTENDENT FOR INSTRUCTION.

02	PRELIMINARY WORK AS CONSTRUCTED	A.S.	22/08/18
01	ISSUE FOR SYDNEY WATER APPROVAL	D.Y.	16/10/17
No.	AMENDMENT DESCRIPTION	BY	DATE

UTILITIES	TYPE		DATE		REF.	
	TYPE	DATE	REF.	DATE	REF.	
PROP SEWER	S	04/10/17	CALIBRE			
PROP STORMWATER	SWD	20/10/16	JWP			

WORK AS CONSTRUCTED CERTIFICATION	
DEVELOPER	NORTH RICHMOND JOINT VENTURE
WATER SERVICE CO-ORDINATOR	CALIBRE CONSULTING (NSW) PTY LTD
CONSTRUCTOR	JONSHAN PTY LTD
COMPLETED	W.A.C. PREPARED 27/07/2018
DESIGNER	CALIBRE CONSULTING (NSW) 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
100	O.P.V.C.	PN16	1356.2
150	O.P.V.C.	PN16	17.5
300	O.P.V.C.	PN16	444.7

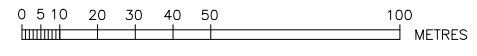
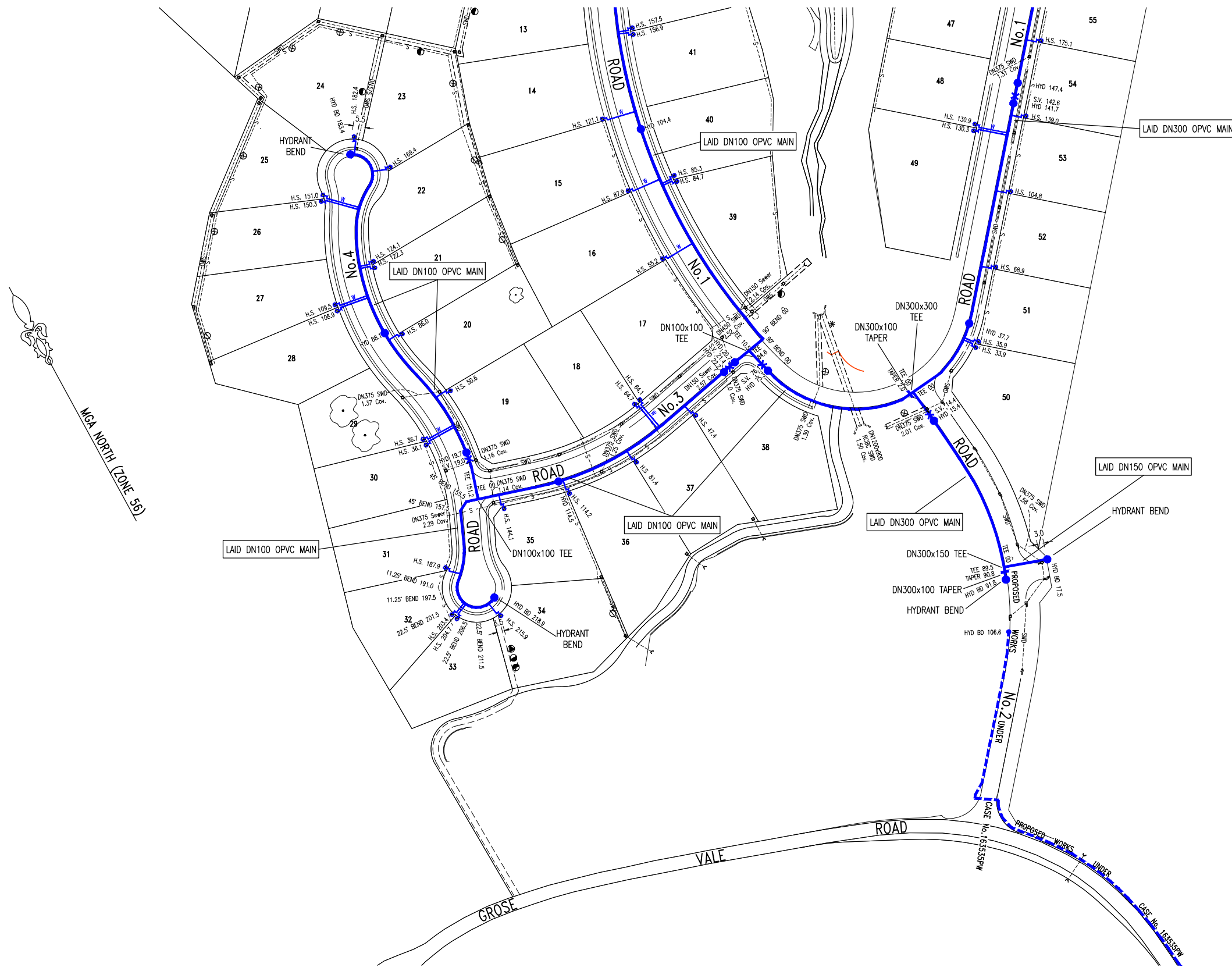
AUSTRALIAN HEIGHT DATUM	
SCALES	
PLAN	1:1000
SECTION	HOR. / VERT.
CROSS SECTIONS	NATURAL
LENGTHS, DEPTHS & LEVELS ARE IN METRES.	

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 63/D12 45th EDITION
SHEET 1 OF 2 File No. N/A

 SYDNEY WATER CORPORATION Case No. 155827PW WATERMAIN EXTENSION GROSE VALE ROAD NORTH RICHMOND HAWKESBURY
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PLAN DRAWN DATE: 22/08/2018
VERSION: 02
SHEET 1 OF 2 SHEETS

SEE SHEET 2 FOR CONTINUATION



- * EASEMENT FOR DRAINAGE 3.5 WIDE
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- ⦿ EASEMENT ACCESS AND MAINTENANCE 2.5 WIDE
- ⦿ EASEMENT FOR WATER SUPPLY 2.5 WIDE
- POSITIVE COVENANT

CONTACT DIAL BEFORE YOU DIG

PLAN DRAWN DATE: 22/08/2018 VERSION: 02 SHEET 2 OF 2 SHEETS

02	PRELIMINARY WORK AS CONSTRUCTED	A.S.	22/08/18
01	ISSUE FOR SYDNEY WATER APPROVAL	D.Y.	16/10/17
No.	AMENDMENT DESCRIPTION	BY	DATE

WORK AS CONSTRUCTED CERTIFICATION		SYDNEY WATER CORPORATION	
DEVELOPER	NORTH RICHMOND JOINT VENTURE	Sydney WATER	Case No. 155827WW SHT 2 OF 2 SHTS.
W.S.C.	CALIBRE CONSULTING (NSW) PTY LTD		
CONSTRUCTOR	JONISHAN PTY LTD		
COMPLETED			
W.A.C. PREPARED	27/07/2018		
DESIGNER	CALIBRE CONSULTING (NSW) PTY LTD	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	