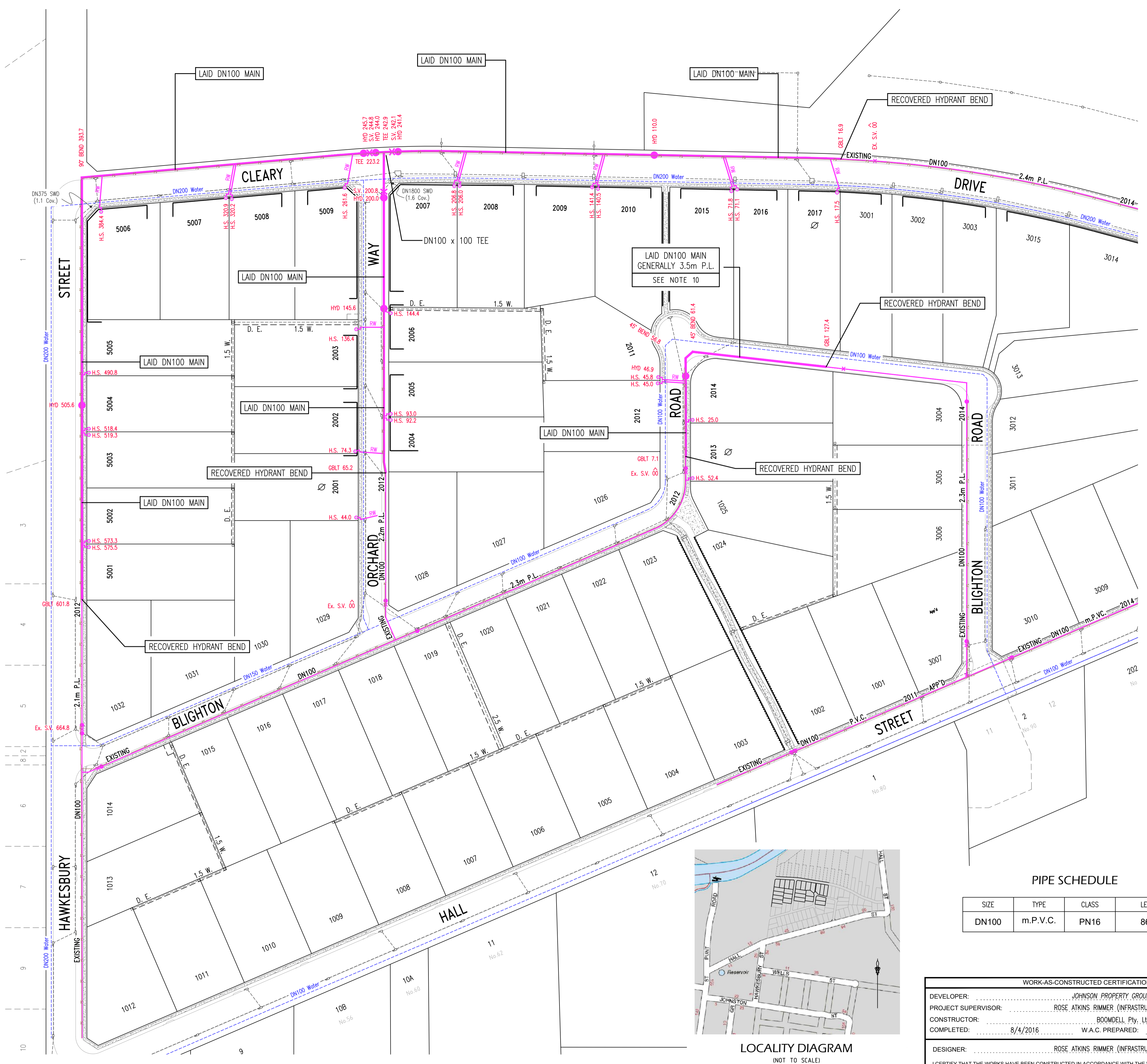


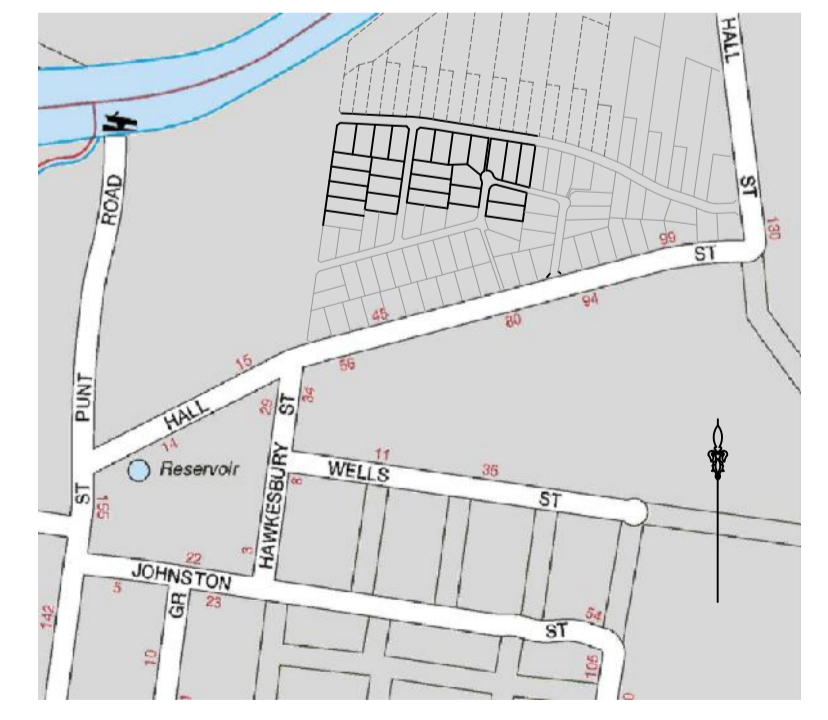
CONSTRUCTION NOTES

- ALL WORKS WERE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, CONSTRUCTION SPECIFICATION WSA 03-2011-31 (SYDNEY WATER EDITION - 2014), FLOW SYSTEMS SUPPLEMENTARY MANUAL TO W.S.A.A. & PRESSURE SEWER SOLUTIONS Pty Ltd MASTER PLAN DRAWINGS CURRENT AT THE TIME OF CONSTRUCTION.
- POTABLE WATER ARE UTILISED FOR FIRE FIGHTING PURPOSES.
- ALL EQUIPMENT, MATERIALS & ACCESSORIES USED IN THIS CONTRACT WERE NEW, DID CONFORM WITH THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS & DID COMPLY WITH FLOW SYSTEMS REQUIREMENTS.
- ALL SERVICES SHOWN WERE INDICATIVE ONLY. A CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING SERVICES WAS REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONTRACTOR DETERMINED LEVELS & LOCATIONS OF EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR ENSURED ALL SERVICES WERE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
- THE CONTRACTOR VERIFIED WITH THE SITE SURVEYOR THE POSITION & LEVEL OF ALL EXISTING & PROPOSED BOUNDARIES PERTINENT TO THE INFRASTRUCTURE INSTALLATIONS.
- ALL RECYCLED WATER MAINS ARE LILAC m.P.V.C. (PN16).
- MAIN LAID GENERALLY 2.4m P.L. EXCEPT WHERE OTHERWISE SHOWN. MINIMUM PIPE COVER IS 600mm IN FOOTWAYS (TYPE B EMBEDMENT: WAT-1202-V) & 900mm FOR ROADWAYS (TYPE L EMBEDMENT: WAT-1204-V). MAXIMUM PIPE COVER IS 1500mm UNLESS SPECIFIED ON THE DESIGN PLANS OR APPROVAL HAD BEEN OBTAINED FROM A PITT TOWN WATER REPRESENTATIVE.
- MAXIMUM JOINT DEFLECTION WERE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- NOT REQUIRED.
- ALL MAINS LAID IN (TRAFFICABLE) CARRIAGEWAYS WERE BACKFILLED WITH 20:1 STABILISED SAND CEMENT TO SUBGRADE LEVEL.
- LOCALLY LOWER PIPEWORK IN VICINITY OF STOP VALVES TO ENSURE SUFFICIENT COVER IS MAINTAINED OVER VALVES. LOWERING OF PIPEWORK WAS ACHIEVED OVER A NUMBER OF PIPE LENGTHS EITHER SIDE OF VALVES TO ELIMINATE ANY SHARP DEFLECTIONS.
- ALL PIPE BEDDING MATERIAL HAD COMPLIED WITH WSA PRODUCT SPECIFICATION PS-350, 368 & 369. GEOTECHNICAL CONDITIONS WERE ASSESSED DURING CONSTRUCTION BY THE CONTRACTOR IN ASSOCIATION WITH THE PITT TOWN WATER REPRESENTATIVE DETERMINE THE NEED TO MODIFY EMBEDMENT/TRENCHFILL TYPE & THE ROAD FOR TRENCH DRAINAGE/BULKHEADS.
- DURING CONSTRUCTION, ALL OPEN ENDS OF PIPES WERE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
- HYDRANTS, STOP VALVES & ALL OTHER FITTINGS WERE THE SAME SIZE AS THROUGH WATER MAIN & ANTICLOCKWISE CLOSING.
- LAID DETECTABLE MARKING TAPE OVER ALL MAINS & PROPERTY HOUSE SERVICE LINES AS PER WAT-1854-S & WAT-1855-S (ENSURING A CONTINUOUS ELECTRICAL PATHWAY ALONG THE TRACE WIRE ON EACH SERVICE FROM THE PROPERTY METERS TO & ALONG THE RELEVANT MAIN TO HYDRANTS AND VALVES. MARKER TAPE WAS CONNECTED TO SURFACE VALVES OR HYDRANTS.
- THRUST BLOCKS WERE INSTALLED IN ACCORDANCE WITH WAT-1205.
- Ø DENOTES H.S. CONNECTION INSERTED IN EXISTING MAIN.
- ALL PROPERTY (MAIN TO METER) SERVICE CONNECTIONS WERE IN ACCORDANCE WITH WSA STANDARD DRAWINGS, SYDNEY WATER VERSION FOR DUAL WATER SUPPLY SYSTEMS (A SUPPLEMENT TO WSA03-2002) WAT-1853-S, WAT-1854-S, WAT-1855-S & WAT-1856-S. THE WORKS WERE INSTALLED IN ACCORDANCE WITH THE CURRENT SYDNEY WATER PROPERTY (MAIN TO METER) SERVICE INSTALLATIONS TECHNICAL REQUIREMENTS, NSW CODE OF PRACTICE FOR PLUMBING & DRAINAGE & AS/NZS3500.
SERVICE CONNECTIONS TO PVC MAINS
ALL MATERIALS FOR USE IN PROPERTY SERVICES WERE IN ACCORDANCE WITH THE N.S.W. CODE OF PRACTICE-PLUMBING & DRAINAGE, AND AS 3500 (MINIMUM PN15), PE80B, PN16.
ALL PROPERTY SERVICE PIPES FOR RECYCLED WATER ARE BLACK WITH LILAC (P23) STRIPES (LONGITUDINAL) TO A.S. 2700. WHERE NOMINAL SIZE OF A PIPE IS SPECIFIED, AN EQUIVALENT PIPE SIZE APPROPRIATE TO THE MATERIAL BEING USED WAS AS SPECIFIED IN A.S. 3500.1, TABLE 11, PE80B, PN16.
- HOUSE SERVICES CONNECTION WERE FLUSHED & LOCKED (BY THE PITT TOWN WATER REPRESENTATIVE) FOLLOWING SUCCESSFUL PRESSURE TESTING.
- SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (ie ROADWAYS, PATHS etc) HAD HEAVY DUTY SURROUNDS INSTALLED.
- ALL MAINS WERE TESTED IN ACCORDANCE WITH WSA 03-2011-31.
- ALL MAINS WERE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- WATER QUALITY TESTING WAS IN ACCORDANCE WITH WSA 03-2011-31 (CLAUSE 19.7).
- THE CONTRACTOR PROVIDED PITT TOWN WATER WITH MINIMUM OF 7 DAYS NOTICE OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE.
- UPON COMPLETION OF WORKS, ALL SURFACES WERE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION THAT EXISTED PRIOR TO COMMENCEMENT OF WORK.
- BURIED FITTINGS WERE NOT BACKFILLED UNTIL W.A.C. DETAILS HAD BEEN OBTAINED & APPROVAL FOR BACKFILLING GIVEN BY THE PITT TOWN WATER REPRESENTATIVE.
- THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE WATER SUPPLY CODE OF AUSTRALIA ARE:
TRAFFICABLE:
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: NIL ** REFER NOTE 10 **
NON-TRAFFICABLE:
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 8 TESTS
TESTING WAS IN ACCORDANCE WITH TABLE 16.1 & 17.1 OF THE WATER SUPPLY CODE OF AUSTRALIA
- SURFACE IDENTIFICATION MARKERS WERE PROVIDED TO PITT TOWN WATER REQUIREMENTS.



PIPE SCHEDULE

SIZE	TYPE	CLASS	LENGTH
DN100	m.P.V.C.	PN16	863.2



WORK-AS-CONSTRUCTED CERTIFICATION

DEVELOPER:	JOHNSON PROPERTY GROUP Pty. Ltd.
PROJECT SUPERVISOR:	ROSE ATKINS RIMMER (INFRASTRUCTURE) Pty. Ltd.
CONSTRUCTOR:	BOONDELL Pty. Ltd.
COMPLETED:	8/4/2016 W.A.C. PREPARED: 6/5/2016
DESIGNER:	ROSE ATKINS RIMMER (INFRASTRUCTURE) Pty. Ltd.

I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.

SERVICE	DATE	REF.

SCALE BAR
0 5 10 20 30 40 50 100 METRES

ROSE ATKINS RIMMER (Infrastructure) Pty. Ltd.
WATER RELATED INFRASTRUCTURE DESIGN AND MANAGEMENT
142 SUNNYHOLT ROAD, BLACKTOWN
P.O. BOX 6745, BLACKTOWN N.S.W. 2148
PH: (02) 9853 0200 FAX: (02) 9671 7399



PLAN OF PROPOSED RECYCLED WATER INFRASTRUCTURE
CLEARY SUBDIVISION - STAGE 2 & 5
HAWKESBURY STREET & OTHERS, PITT TOWN
L.G.A. HAWKESBURY

PITT TOWN WATER REF: STAGE PL. 6P & 8P				SHEET 1 OF 1	WAC
DRAWN:	SCALE:	DATUM:	U.S.D. REFERENCE:	AS No.	
D.SHEATHER	1:1000	-	67 L7		
VERIFIED:	REVISED:	APPROVED:	DATE:		
S.RIMMER	D.SAWKINS		13/11/2015		

10/20978/C2