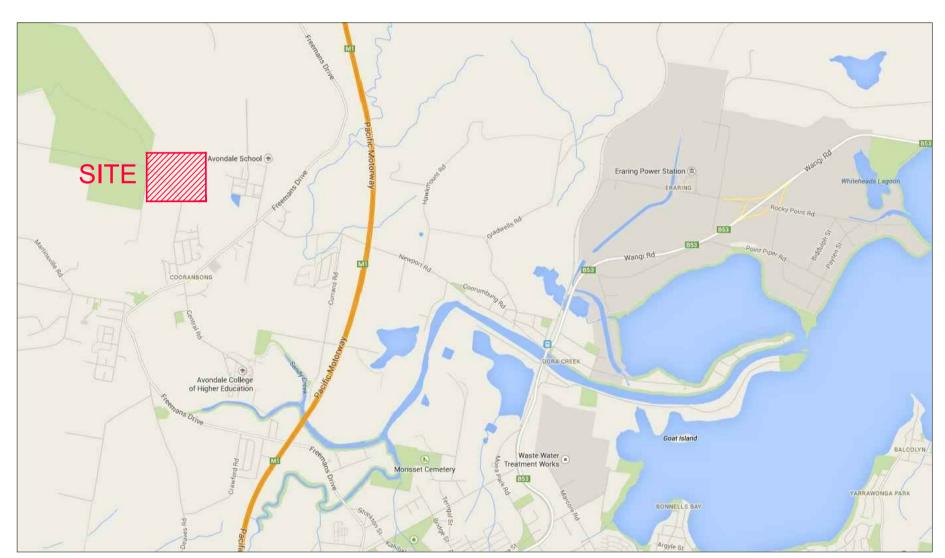
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION PROPOSED SUBDIVISION STAGES 2.8 & 2.9 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015



LOCALITY SKETCH NOT TO SCALE

	DRAWING INDEX
DRAWING NUMBER	DRAWING TITLE
239078(2.8 & 2.9)-WAT-001	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX
239078(2.8 & 2.9)-WAT-002	GENERAL NOTES
239078(2.8 & 2.9)-WAT-003	OVERALL SITE PLAN
239078(2.8 & 2.9)-WAT-004	POTABLE WATER DETAIL PLAN - SHEET 1
239078(2.8 & 2.9)-WAT-005	POTABLE WATER DETAIL PLAN - SHEET 2
239078(2.8 & 2.9)-WAT-006	POTABLE WATER DETAIL PLAN - SHEET 3
239078(2.8 & 2.9)-WAT-007	POTABLE WATER DETAIL PLAN - SHEET 4
239078(2.8 & 2.9)-WAT-008	POTABLE WATER DETAIL PLAN - SHEET 5
239078(2.8 & 2.9)-WAT-009	POTABLE WATER DETAIL PLAN - SHEET 6
239078(2.8 & 2.9)-WAT-010	POTABLE WATER DETAIL PLAN - SHEET 7
239078(2.8 & 2.9)-WAT-011	NOT USED
239078(2.8 & 2.9)-WAT-012	NOT USED
239078(2.8 & 2.9)-WAT-013	RECYCLED WATER DETAIL PLAN - SHEET 1
239078(2.8 & 2.9)-WAT-014	RECYCLED WATER DETAIL PLAN - SHEET 2
239078(2.8 & 2.9)-WAT-015	RECYCLED WATER DETAIL PLAN - SHEET 3
239078(2.8 & 2.9)-WAT-016	RECYCLED WATER DETAIL PLAN - SHEET 4
239078(2.8 & 2.9)-WAT-017	RECYCLED WATER DETAIL PLAN - SHEET 5
239078(2.8 & 2.9)-WAT-018	RECYCLED WATER DETAIL PLAN - SHEET 6
239078(2.8 & 2.9)-WAT-019	RECYCLED WATER DETAIL PLAN - SHEET 7
239078(2.8 & 2.9)-WAT-020	NOT USED
239078(2.8 & 2.9)-WAT-021	NOT USED
239078(2.8 & 2.9)-WAT-022	PRESSURE SEWER DETAIL PLAN - SHEET 1
239078(2.8 & 2.9)-WAT-023	PRESSURE SEWER DETAIL PLAN - SHEET 2
239078(2.8 & 2.9)-WAT-024	PRESSURE SEWER DETAIL PLAN - SHEET 3
239078(2.8 & 2.9)-WAT-025	PRESSURE SEWER DETAIL PLAN - SHEET 4
239078(2.8 & 2.9)-WAT-026	PRESSURE SEWER DETAIL PLAN - SHEET 5
239078(2.8 & 2.9)-WAT-027	PRESSURE SEWER DETAIL PLAN - SHEET 6
239078(2.8 & 2.9)-WAT-028	PRESSURE SEWER DETAIL PLAN - SHEET 7
239078(2.8 & 2.9)-WAT-029	NOT USED
239078(2.8 & 2.9)-WAT-030	NOT USED
239078(2.8 & 2.9)-WAT-031	TYPICAL PIPEWORK TRENCHING DETAILS
239078(2.8 & 2.9)-WAT-032	NOT USED
239078(2.8 & 2.9)-WAT-033	TYPICAL SERVICE CONNECTION DETAILS
239078(2.8 & 2.9)-WAT-034	WASTEWATER COLLECTION TANK LEVEL DETAILS
239078(2.8 & 2.9)-WAT-035	ROAD CROSS SECTIONS - SHEET 1
239078(2.8 & 2.9)-WAT-036	ROAD CROSS SECTIONS - SHEET 2
239078(2.8 & 2.9)-WAT-037	ROAD CROSS SECTIONS - SHEET 3
239078(2.8 & 2.9)-WAT-038	NOT USED
239078(2.8 & 2.9)-WAT-039	THRUST BLOCK DETAILS

REV	/. C	DATE	AMENDMENT	DRAW	CHECK	DESIGN '	VERIFY SCALES		CLIEN'	Т	PROPERTY DESCRIPTION		PROJECT POTABI	LE WATER, RECYCLED \	WATER AND	
A A	20.1	0.11.2015	PRELIMINARY ISSUE AMENDED ISSUE — FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.		Hunter Office		PROPOSED	SUBDIVISION	PRE	ESSURE SEWER RETICL	JLATION	
	09.1	9.12.2015 9.12.2015	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.		Warners Bay N.S.W. 2282		PRECINCT 2, STAGES 2.8		PLAN TITLE			
$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	18.0	3.05.2016 9.03.2018	AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED	J.N. J.N.	L.G. L.G.	J.N. J.N.	L.G. L.G.		Phone: (02) 4978 5100	JOHNSON	•	E, COORANBONG	COV	/ER SHEET, LOCALITY P	LAN AND	
3	17.0	7.06.2019	AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED	J.N.	L.G.	J.N.	L.G.	aawi	Fax: (02) 4978 5199	PROPERTY		7/2015		DRAWING INDEX		
WAC	C 30. C 21.1	1.11.2019 1.11.2019	LOT NUMBERS UPDATED	D.S.	V. V.				www.adwiohnson.com.au	GROUP			DDO ISOTAL	DIOOIDI INE	AH IMPED	I DEV
							ALL DIMENSIONS ADE IN METDES DO NOT SOME	liohnsor	ABN 62 129 445 398		SURVEYED ADW Johnson	DATUM A H D	PROJECT No. 239078(2.8 8	& 2.9) - WAT -	NUMBER 001	WAC
DESIG	IGN FILE	_E IN: \					ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	3 - 1 10 - 1	<u>- </u>		7.2.11 0011113011	7.11.0.	233010(2.0 0	x 2.3) VVA I	001	VVAC

DESIGN FILE N:\

GENERAL NOTES:

- 1. THIS DRAWING SET SHOULD BE READ IN CONJUNCTION WITH LAKE MACQUARIE CITY COUNCIL STANDARDS AND OTHER ASSOCIATED DRAWINGS AND TECHNICAL SPECIFICATIONS. ANY VARIATIONS SHALL BE APPROVED BY THE SUPERINTENDENT REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
- 2. THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORK AND SHALL REPAIR ANY DAMAGE CAUSED TO SUCH SERVICES DURING CONSTRUCTION. ANY SERVICE LOCATIONS SHOWN IN THIS DRAWING SET ARE INDICATIVE ONLY.
- 3. ALL PRODUCTS AND MATERIALS SHALL BE NEW, SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS AND ARE TO BE SELECTED FROM THE COORANBONG WATER APPROVED PRODUCTS AND MATERIALS REGISTER.
- 4. DURING CONSTRUCTION ALL OPEN ENDS OF PIPES SHALL BE CAPPED TO PREVENT ENTRY OF FOREIGN MATTER.
- 5. ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- 6. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO COORANBONG WATER REQUIREMENTS.
- 7. MAKE SMOOTH TRANSITION TO EXISTING INFRASTRUCTURE (ROAD PAVEMENT, KERBS, FOOTPATHS, ETC.) TO LAKE MACQUARIE CITY COUNCIL AND SUPERINTENDENT'S SATISFACTION.
- 8. SUITABLE PROTECTION TO EXISTING INFRASTRUCTURE (ROAD PAVEMENT, KERBS, FOOTPATHS, ETC.) IS TO BE PROVIDED DURING DURATION OF CONSTRUCTION.
- 9. CLEAR VEHICULAR ACCESS TO ADJOINING PROPERTIES IS TO BE MAINTAINED AT ALL TIMES FOR DURATION OF CONSTRUCTION. FOR ANY WORKS IN ADJOINING PROPERTIES, PERMISSION IS TO BE OBTAINED PRIOR TO COMMENCEMENT.
- 10. SERVICE CONDUITS ARE TO BE LAID AS DIRECTED BY THE SUPERINTENDENT/RELEVANT SERVICE AUTHORITY. LOCATE CLEAR OF VEHICULAR ACCESS LOCATIONS AND PROVIDE KERB MARKING AS PER COUNCIL REQUIREMENTS.
- 11. WHERE LOT FILLING EXCEEDS 300mm, A SURVEY OF THE STRIPPED SURFACE AND FINAL FILLED SURFACE SHALL BE UNDERTAKEN BY THE CONTRACTOR, WITH FILL DEPTHS NOTED ON W.A.C. PLANS.
- 12. THE CONTRACTOR SHALL PROVIDE COORANBONG WATER WITH M.G.A. COORDINATED WORK AS CONSTRUCTED INFORMATION. BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL WORK AS CONSTRUCTED DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING HAS BEEN GIVEN BY THE COORANBONG WATER REPRESENTATIVE.
- 13. ANY WORKS NOT COVERED BY THE SPECIFICATION OR THIS DRAWING SET ARE TO BE REFERRED TO THE SUPERINTENDENT.
- 14. THE CONTRACTOR SHALL PROVIDE COORANBONG WATER AND HUNTER WATER WITH A MINIMUM OF 7 DAYS NOTICE (IN WRITING) OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE.
- 15. ALL PIPE BEDDING MATERIAL TO COMPLY WITH WSAA PRODUCT SPECIFICATION WSA-PS350 AND WSA PS351.

POTABLE WATER AND RECYCLED WATER NOTES:

- 1. ALL WORKS SHALL BE IN ACCORDANCE WITH BUT NOT LIMITED TO, WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1 (SYDNEY WATER EDITION 2012) AND FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA.
- 2. WORKS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, CONSTRUCTION SPECIFICATION, WSA 03 PART 2 - CONSTRUCTION AND WSA 03 STANDARDS DRAWINGS AND WSA STANDARD DRAWINGS (SYDNEY WATER VERSION) OR AS MODIFIED BY FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA, CURRENT AT THE TIME OF CONSTRUCTION.
- 3. CLEARANCES SHOWN TO OTHER PIPES HAVE BEEN CALCULATED FROM THE COLLAR.
- 4. ALL PRODUCTS AND MATERIALS TO BE SELECTED FROM THE COORANBONG WATER APPROVED PRODUCTS AND MATERIALS REGISTER.
- 5. HYDRANTS, STOP VALVES AND ALL OTHER FITTINGS TO BE THE SAME SIZE AS THE THROUGH WATER MAIN. ALL POTABLE & RECYCLED WATER VALVES TO BE ANTI CLOCKWISE CLOSING.
- 6. HYDRANTS MUST NOT BE POSITIONED IN DRIVEWAYS OR TAPPING POINTS. HYDRANTS NOMINALLY AT LEAST 5m FROM EACH BOUNDARY OR ON BOUNDARIES.
- 7. ALL PIPES AND FITTINGS TO BE AT HWC PREFERRED MINIMUM COVER (WAT-1201-V).
 - FOOTWAYS 0.6m TYPE B EMBEDMENT WAT-1202.
- ROADWAYS 0.75m TYPE L EMBEDMENT WAT-1204-V.
- 8. LAY DETECTABLE MARKING TAPE OVER ALL MAINS AND PROPERTY SERVICE LINES AS PER WAT-1854-S AN WAT-1855-S ENSURING A CONTINUOUS ELECTRICAL PATHWAY ALONG THE TRACE WIRE ON EACH SERVICE FROM PROPERTY METERS TO AND ALONG THE RELEVANT MAIN TO HYDRANTS AND VALVES.
- 9. GEOTECHNICAL CONDITIONS SHALL BE ASSESSED DURING CONSTRUCTION BY THE CONTRACTOR IN ASSOCIATION WITH COORANBONG WATER SUPERINTENDENT TO DETERMINE MODIFICATIONS TO EMBEDMENT/TRENCH TYPE AND TRENCH DRAINAGE/BULKHEAD REQUIREMENTS.
- 10. ALL POTABLE WATERMAINS SHALL BE PLAIN BLUE PVC-M (PN16).
- 11. ALL RECYCLED WATERMAINS SHALL BE LILAC PVC-M (PN16).
- 12. DIFFERENTIATION OF DRINKING (POTABLE) AND NON-DRINKING (RECYCLED) WATER SYSTEMS TO BE AS PER WSA 03-2011, TABLE 4.1 WITH BOTH SERVICES BEING CLASSIFIED AS WATERMAINS. RECYCLED WATERMAIN TO ALWAYS BE LOWER THAN POTABLE WATERMAIN WITH MINIMUM 150mm VERTICAL CLEARANCE.
- 13. FOR THRUST BLOCK DETAILS REFER TO DRG-027.
- 14. PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS(SYDNEY WATER VERSION)(SUPPLEMENT TO WSA 03-2011) AND FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA.
 - WAT-1853-S.
 - WAT-1854-FS.
 - WAT-1855-FS. WAT-1856-S.
- 15. PROPERTY SERVICE CONNECTIONS MUST BE INSTALLED BY A LICENSED PLUMBER AND COMPLY WITH N.S.W. CODE OF PRACTICE FOR PLUMBING AND DRAINAGE AND AS/NZ 3500.
- 16. ALL MATERIALS USED IN PROPERTY SERVICES ARE TO BE IN ACCORDANCE WITH N.S.W. CODE OF PRACTICE FOR PLUMBING AND DRAINAGE AND AS/NZ 3500 (MINIMUM PN15), PE 100 B, PN16.
- 17. ALL PROPERTY SERVICE PIPES FOR RECYCLED WATER ARE TO BE COLOURED BLACK WITH LILAC (P23) LONGITUDINAL STRIPE TO AS 2700. WHERE NOMINAL PIPE SIZE IS SPECIFIED, AN EQUIVALENT PIPE SIZE APPROPRIATE TO THE MATERIAL BEING USED TO BE AS SPECIFIED IN AS 3500, TABLE 1.1, PE 100 B, PN16. ALL PROPERY SERVICE PIPES FOR POTABLE WATER ARE TO BE COLOURED BLACK WITH BLUE LONGITUDINAL STRIPE TO A.S.2700.
- 18. MAXIMUM PIPE COVER SHALL BE 1500mm UNLESS SPECIFIED ON THE DESIGN DRAWINGS OR APPROVAL IS OBTAINED FROM THE COORANBONG WATER REPRESENTATIVE.
- 19. ALL MAINS LAID IN TRAFFICABLE CARRIAGEWAYS SHALL BE BACKFILLED WITH 16:1 STABILISED SAND CEMENT TO SUBGRADE LEVEL ONLY.
- 20. THE MINIMUM NUMBER OF COMPACTION TESTS ARE AS FOLLOWS:

TRAFFICABLE

- PIPE EMBEDMENT ZONE: 1 TEST/CROSSING.
- TRENCHFILL ZONE: 1 TEST/CROSSING.

NON-TRAFFICABLE

- PIPE EMBEDMENT ZONE: 1 TEST/100m.
- TRENCHFILL ZONE: 1 TEST/100m.
- TESTING IS TO BE IN ACCORDANCE WITH WATER SUPPLY CODE OF AUSTRALIA TABLES 16.1 AND 17.1.
- 21. POTABLE AND RECYCLED WATERMAIN FITTINGS ARE TO BE STAGGERED.
- 22. MAXIMUM JOINT DEFLECTIONS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- 23. EACH PROPERTY SERVICE CONNECTION IS TO BE FLUSHED AND LOCKED FOLLOWING PRESSURE TESTING.
- 24. SCOUR VALVES TO BE CONNECTED TO LOCAL STORMWATER SYSTEM. 25. POTABLE WATER IS TO BE UTILISED FOR FIRE FIGHTING PURPOSES.
- 26. HYDRANT SURFACE BOXES TO BE YELLOW (POTABLE WATER) AND LILAC (RECYCLED WATER).

PRESSURE SEWER NOTES:

- 1. ALL WORKS SHALL BE IN ACCORDANCE WITH BUT NOT LIMITED TO PRESSURE SEWER CODE OF AUSTRALIA WSA 07-2007, POLYETHYLENE PIPELINE CODE WSA 01-2004 AND FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA.
- 2. WORKS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS AND FLOW SYSTEMS STANDARD DRAWINGS REFERENCED IN FLOW SYSTEMS SUPPLEMENTARY MANUAL TO WSAA (TABLE 4.1). REFER TO https://askus.flowsystems.com.au/hc/en-us/articles/210615353--Standard-Drawings FOR LATEST VERSIONS OF FLOW SYSTEMS STANDARD DRAWINGS.
- 3. PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA
- 4. ALL POLYETHYLENE MAINS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- 5. ALL MAINS LAID IN TRAFFICABLE CARRIAGEWAYS SHALL BE BACKFILLED WITH 16:1 STABILISED SAND CEMENT TO SUBGRADE LEVEL ONLY.
- 6. <u>ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS</u> (FABRICATED BENDS SHALL NOT BE USED).
- 7. ALL HOUSE SERVICE LATERALS SHALL BE DN40 PE 100 PN16.
- 8. DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
- 9. ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (ROADWAYS, PATHS) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- 10. ALL PRESSURE SEWER VALVES SHALL BE RESILIENT SEATED SLUICE GATE VALVES (CLOCKWISE CLOSING) AND SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207.
- 11. ALL MAINS MUST BE TESTED (AS DIRECTED BY THE COORANBONG WATER REPRESENTATIVE) TO MEET CERTIFYING AUTHORITIES STANDARDS. ALL PRESSURE SEWER MAINS AND JOINTS TO BE TESTED TO 1600kPa.
- 12. FOR LOTS WITH TANKS IN THE REAR.
 - PROVIDE Ø25 HEAVY DUTY ELECTRICAL CONDUIT (WITH DRAW WIRE) INSTALLED FROM THE COLLECTION TANK TO THE RECYCLED WATER METER.
 - PROVIDE Ø25 HEAVY DUTY ELECTRICAL CONDUIT (WITH DRAW WIRE) INSTALLED FROM THE COLLECTION TANK TO THE POTABLE WATER METER.

CONDUITS SHALL BE LAID IN COMMON TRENCH WITH PRESSURE SEWER PIPEWORK. (REFER TO TYPICAL CONNECTION DETAIL, DRG-030).

- 12. PRESSURE TRANSMITTER TO BE INSTALLED AT SPECIFIC POINTS SHALL BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM AS PER COORANBONG WATER REQUIREMENTS.
- 13. LOCALISED DEEPENING OF THE MAIN MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION. CONTRACTOR IS TO ENSURE THAT AIR VALVE OFFTAKE IS LOCATED AT A HIGH POINT IN THE MAIN. (i.e. THE MAIN SHALL GRADE DOWNWARDS EITHER SIDE OF THE AIR VALVE).
- 14. FOR EMBEDMENT AND TRENCHFILL COMPACTION TEST REQUIREMENTS REFER TO THE PRESSURE SEWER CODE OF AUSTRALIA - SECTION 21.3. (REFER TO NOTE 9, POTABLE WATER AND RECYCLED WATER NOTES).
- 15. ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.

WORK-AS-CONSTRUCTED

PROJECT POTABLE WATER, RECYCLED WATER AND PROPERTY DESCRIPTION PRESSURE SEWER RETICULATION PROPOSED SUBDIVISION PLAN TITLE PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK WHISTLER DRIVE, COORANBONG **GENERAL NOTES** DA/307/2015 SURVEYED DATUM PROJECT No. DISCIPLINE NUMBER WAC 002 239078(2.8 & 2.9) - WAT A.H.D. ADW Johnson

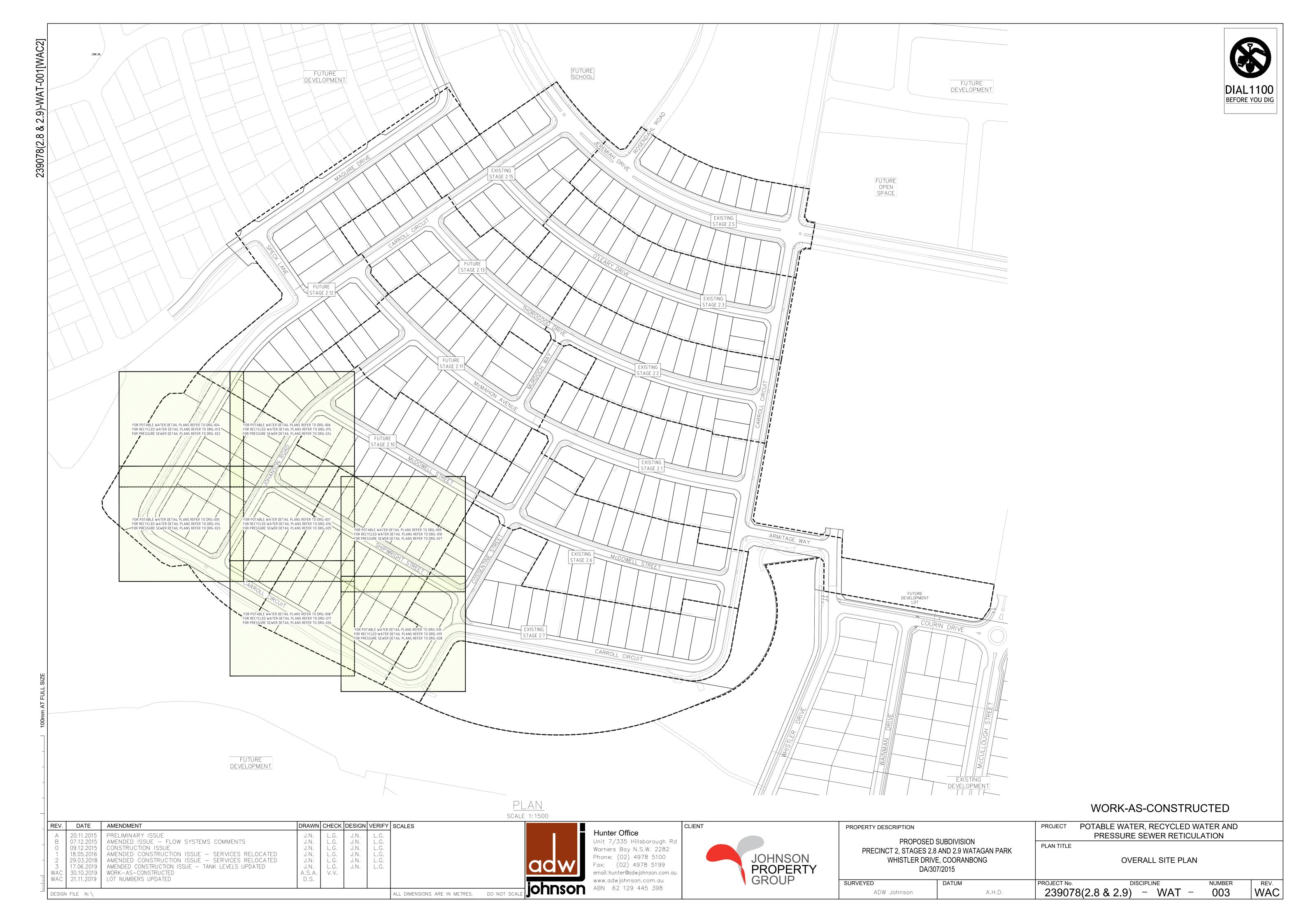
DRAWN CHECK DESIGN VERIFY SCALES REV. DATE AMENDMENT PRELIMINARY ISSUE J.N. AMENDED ISSUE - FLOW SYSTEMS COMMENTS J.N. CONSTRUCTION ISSUE L.G. L.G. L.G. J.N. AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED J.N. 18.05.2016 AMENDED CONSTRUCTION ISSUE - SERVICES RELOCATED J.N. J.N. AMENDED CONSTRUCTION ISSUE - TANK LEVELS UPDATED J.N. L.G. J.N. L.G. 17.06.2019 A.S.A. 30.10.2019 | WORK-AS-CONSTRUCTED V.V. D.S. WAC | 21.11.2019 | LOT NUMBERS UPDATED

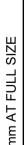
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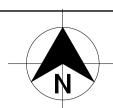
Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au **GROUP** www.adwjohnson.com.au ABN 62 129 445 398

CLIENT

JOHNSON **PROPERTY**









<u>LEGEND</u> ----- W---- W--- PVC-M POTABLE WATER RETICULATION ----- RW ------ PVC-M RECYCLED WATER RETICULATION ---- T---- T---- TELSTRA ———— E ——— E —— UNDERGROUND POWER ----- S/W ----- S/ORMWATER PIPEWORK STOP VALVE HYDRANT FL HYD. FLUSHING HYDRANT PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

POTABLE WATER PROPERTY SERVICE CONNECTIONS

LIMIT OF SUBDIVISION WORKS

TOTAL 49 CONNECTIONS

• SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

-5 x SHORT SIDE

-0 x LONG SIDE

• SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-14 x SHORT SIDE

-8 x LONG SIDE

POT	ABLE WATER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	720

NOTES:

1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-013 TO 019.

2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-022 TO 028.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.

WORK-AS-CONSTRUCTED

REV. DATE	AMENDMENT PRELIMINARY ISSUE	DRAWN CHECK DESIGN VERIFY SCALES	_	Hunter Office		PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED WA		
B 07.12.2015 0 09.12.2015 1 18.05.2016 - 2 29.03.2018 3 17.06.2019 WAC 30.10.2019	AMENDED ISSUE — FLOW SYSTEMS COMMENTS CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED WORK—AS—CONSTRUCTED	J.N. L.G. J.N. J.N. J.N. J.N. J.N. J.N. J.N. J	adw	email: hunter@adwjohnson.com.au	OHNSON ROPERTY	PRECINCT 2, STAGES 2.8 WHISTLER DRIV	SUBDIVISION AND 2.9 WATAGAN PARK E, COORANBONG 7/2015	PLAN TITLE	POTABLE WATER DETAIL P - SHEET 1		
WAC 21.11.2019 DESIGN FILE N: \	LOT NUMBERS UPDATED	D.S. ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	johnsol	www.adwjohnson.com.au ABN 62 129 445 398	ROUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078	DISCIPLINE (2.8 & 2.9) - WAT -	NUMBER 004	WAC

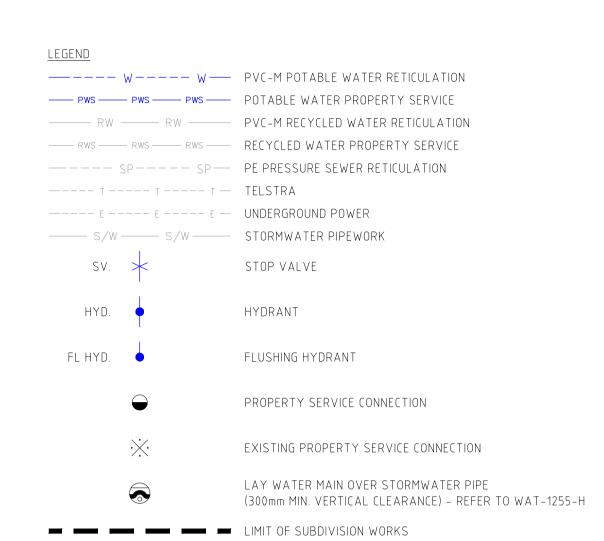
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PLAN SCALE 1:250 978

977







POTABLE WATER PROPERTY SERVICE CONNECTIONS TOTAL 49 CONNECTIONS •SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

 $-5 \times SHORT SIDE$ -0 x LONG SIDE

•SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V $-14 \times SHORT SIDE$ $-8 \times LONG SIDE$

POT	able water pipe	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	720

1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO

DRGS-013 TO 019.

2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-022 TO 028.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.

WORK-AS-CONSTRUCTED DATE AMENDMENT DRAWN CHECK DESIGN VERIFY SCALES CLIENT POTABLE WATER, RECYCLED WATER AND PROPERTY DESCRIPTION **Hunter Office** J.N. L.G.
J.N. L.G.
J.N. L.G.
J.N. L.G.
J.N. L.G.
J.N. L.G.
A.S.A. V.V.
D.S. PRESSURE SEWER RETICULATION PRELIMINARY ISSUE 10 **A1 / A3** Unit 7/335 Hillsborough Rd PROPOSED SUBDIVISION AMENDED ISSUE - FLOW SYSTEMS COMMENTS 1:250 / 1:500 CONSTRUCTION ISSUE

AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED

AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED

AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED PLAN TITLE J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. Warners Bay N.S.W. 2282 PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK POTABLE WATER DETAIL PLAN JOHNSON PROPERTY Phone: (02) 4978 5100 WHISTLER DRIVE, COORANBONG 29.03.2018 - SHEET 2 Fax: (02) 4978 5199 17.06.2019 DA/307/2015 30.10.2019 WORK-AS-CONSTRUCTED 21.11.2019 LOT NUMBERS UPDATED email: hunter@adwjohnson.com.au GROUP www.adwjohnson.com.au SURVEYED DATUM PROJECT No. DISCIPLINE NUMBER ABN 62 129 445 398 239078(2.8 & 2.9) - WAT -005 WAC ADW Johnson A.H.D. ALL DIMENSIONS ARE IN METRES. DO NOT SCA DESIGN FILE N:\

JOINS DRG-004

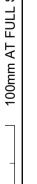
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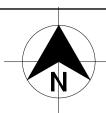
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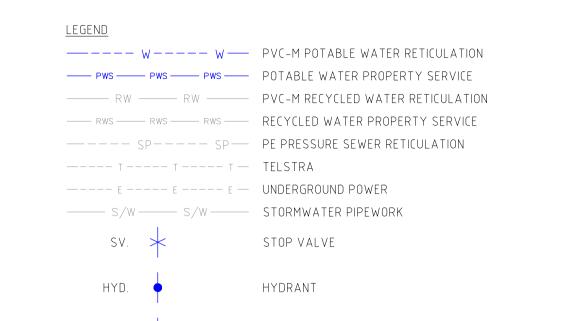
FUTURE

STAGE 2.12









FLUSHING HYDRANT FL HYD. PROPERTY SERVICE CONNECTION

EXISTING PROPERTY SERVICE CONNECTION LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

LIMIT OF SUBDIVISION WORKS

POTABLE WATER PROPERTY SERVICE CONNECTIONS

TOTAL 49 CONNECTIONS

SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

-5 x SHORT SIDE

-0 x LONG SIDE

SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-14 x SHORT SIDE

-8 x LONG SIDE

POT	able water pipe	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	720

NOTES:

1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-013 TO 019.

2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-022 TO 028.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.

WORK-AS-CONSTRUCTED

- RE	7. DATE 20.11.201	AMENDMENT 5 PRELIMINARY ISSUE 6 AMENDED ISSUE 7 AMENDED ISSUE 7 AMENDED ISSUE	J.N.	L.G.	J.N. L.G.	. 0 5 10 A1 / A3		Hunter Office	PROPERTY DESCRIPTION	D CLIDDIV/ICION	PROJECT	POTABLE WATER, RECYCLED WATER, RECYCLED WATER, RETICUL		
1 C C C C C C C C C C C C C C C C C C C	07.12.201 09.12.201 18.05.201 29.03.201 17.06.201 C 30.10.201	5 AMENDED ISSUE — FLOW SYSTEMS COMMENTS 5 CONSTRUCTION ISSUE 6 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED 8 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED 9 AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED 9 WORK—AS—CONSTRUCTED	J.N. J.N. J.N. J.N. A.S.A	L.G. L.G. L.G. L.G. V.V.	J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G.	1:250 / 1:500	adw	Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au	PRECINCT 2, STAGES 2 WHISTLER DR	D SUBDIVISION 2.8 AND 2.9 WATAGAN PARK IVE, COORANBONG 307/2015	PLAN TITLE	POTABLE WATER DETAIL F - SHEET 3	PLAN	
DES	IGN FILE N:\	9 LOT NUMBERS UPDATED	D.5.			ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	johnsor	www.adwjohnson.com.au ABN 62 129 445 398	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No 23907	78(2.8 & 2.9) - WAT -	NUMBER 006	WAC

1210

STAGE 2.10

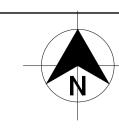
1209

1214

1213

PLAN SCALE 1:250







<u>LEGEND</u>

873

862

————— W——— PVC-M POTABLE WATER RETICULATION ----- RW ------ PVC-M RECYCLED WATER RETICULATION ---- T---- T---- TELSTRA ———— E ——— E —— UNDERGROUND POWER ----- S/W ----- STORMWATER PIPEWORK

HYDRANT

FL HYD. FLUSHING HYDRANT

PROPERTY SERVICE CONNECTION

STOP VALVE

EXISTING PROPERTY SERVICE CONNECTION

LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

LIMIT OF SUBDIVISION WORKS

POTABLE WATER PROPERTY SERVICE CONNECTIONS

TOTAL 49 CONNECTIONS

• SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

-5 x SHORT SIDE

-0 x LONG SIDE

• SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-14 x SHORT SIDE

-8 x LONG SIDE

POT	able water pipe	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	720

NOTES:

1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-013 TO 019.

2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-022 TO 028.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.

WORK-AS-CONSTRUCTED

REV. DATE AMENDMENT A 20.11.2015 PRELIMINARY ISSUE	DRAWN J.N.	CHECK DE	SIGN VI	RIFY SO	O 5 10 A1 / A2		Hunter Office CLIENT		PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED W PRESSURE SEWER RETICUL		
B 07.12.2015 AMENDED ISSUE — FLOW SYSTEMS COMMENTS 0 09.12.2015 CONSTRUCTION ISSUE 1 18.05.2016 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED 2 29.03.2018 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED 3 17.06.2019 AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED WAC 30.10.2019 WORK—AS—CONSTRUCTED	J.N. J.N. J.N. J.N. J.N. A.S.A.	L.G. L.G. L.G. L.G. L.G.	J.N. J.N. J.N. J.N.	G. G. G. G.	1:250 / 1:500	adw	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	JOHNSON PROPERTY	PRECINCT 2, STAG WHISTLER	OSED SUBDIVISION ES 2.8 AND 2.9 WATAGAN PARK DRIVE, COORANBONG DA/307/2015	PLAN TITLE	POTABLE WATER DETAIL I - SHEET 4		
WAC 21.11.2019 LOT NUMBERS UPDATED DESIGN FILE N: \	D.S.			AL	L DIMENSIONS ARE IN METRES. DO NOT SCALE	johnso	www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No.	78(2.8 & 2.9) - WAT -	NUMBER 007	WAC

JOINS DRG-006

960

858

JOINS DRG-008

PLAN SCALE 1:250









————— W——— PVC-M POTABLE WATER RETICULATION ----- RW ------ PVC-M RECYCLED WATER RETICULATION ---- T---- T---- TELSTRA ---- E ---- E ---- E - UNDERGROUND POWER ----- S/W ----- STORMWATER PIPEWORK

HYD. HYDRANT

FLUSHING HYDRANT FL HYD.

PROPERTY SERVICE CONNECTION

STOP VALVE

EXISTING PROPERTY SERVICE CONNECTION

LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

LIMIT OF SUBDIVISION WORKS

POTABLE WATER PROPERTY SERVICE CONNECTIONS

TOTAL 49 CONNECTIONS

• SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

-5 × SHORT SIDE

-0 × LONG SIDE

• SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-14 × SHORT SIDE

-8 × LONG SIDE

POT	able water pipe	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	720

NOTES:

1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-013 TO 019.

2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-022 TO 028.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.

WORK-AS-CONSTRUCTED

A A	20.11.2015	AMENDMENT 5 PRELIMINARY ISSUE 5 AMENDED ISSUE 6 AMENDED ISSUE 6 AMENDED ISSUE 7 AMENDED ISSUE 7 AMENDED ISSUE 8 AMENDED ISSUE 9 AMENDED ISSUE 10 AMENDED ISSUE 11 AMENDED ISSUE 12 AMENDED ISSUE 13 AMENDED ISSUE 14 AMENDED ISSUE 15 AMENDED ISSUE 16 AMENDED ISSUE 17 AMENDED ISSUE 18 AM	J.N.	CHECK DESIGN VERIF	0 5 10 A1 / A3	Г	Hunter Office Unit 7/335 Hillsharough Rd		PROPERTY DESCRIPTION	SUBDIVISION	PROJECT	POTABLE WATER, RECYCLED WA PRESSURE SEWER RETICULA		
- B O 1 1 2 3 WA	07.12.2013 09.12.2015 18.05.2016 29.03.2018 17.06.2019	CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED WORK—AS—CONSTRUCTED	J.N. J.N. J.N. J.N. A.S.A	L.G. J.N. L.G. L.G. L.G. J.N. L.G. L.G. L.G. J.N. L.G. L.G. V.V.	1:250 / 1:500	adw	email: hunter@adwjohnson.com.au PRO	NSON PERTY	PRECINCT 2, STAGES 2.8 WHISTLER DRIV	3 AND 2.9 WATAGAN PARK E, COORANBONG 07/2015	PLAN TITLE	POTABLE WATER DETAIL PI - SHEET 5	LAN	
DES	GN FILE N:\	DE LOT NUMBERS OPDATED	D.S.		ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	johnsor	www.adwjohnson.com.au ABN 62 129 445 398	JUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 23907	78(2.8 & 2.9) - WAT -	NUMBER 008	WAC

855

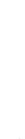
JOINS DRG-007

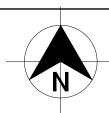
PLAN SCALE 1:250 857

858

873

872







<u>LEGEND</u> ----- W---- W--- PVC-M POTABLE WATER RETICULATION ----- RW ------ PVC-M RECYCLED WATER RETICULATION ---- T---- T---- TELSTRA ———— E ——— E —— UNDERGROUND POWER STOP VALVE HYDRANT

FLUSHING HYDRANT FL HYD.

EXISTING PROPERTY SERVICE CONNECTION

LIMIT OF SUBDIVISION WORKS

LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

PROPERTY SERVICE CONNECTION

POTABLE WATER PROPERTY SERVICE CONNECTIONS

TOTAL 49 CONNECTIONS

• SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

-5 x SHORT SIDE

-0 x LONG SIDE

• SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-14 x SHORT SIDE

-8 x LONG SIDE

POT	able water pipe	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	720

NOTES:

1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-013 TO 019.

2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-022 TO 028.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.

WORK-AS-CONSTRUCTED

REV.DATEAMENDMENTDRAVA20.11.2015PRELIMINARY ISSUEJ.N.	N.	L.G.	J.N.	N VERIF	SCALES 0 5 10 A1 / A3		Hunter Office	PROPERTY DESCRIPTION		PROJECT P	OTABLE WATER, RECYCLED V PRESSURE SEWER RETICU		
B 07.12.2015 AMENDED ISSUE — FLOW SYSTEMS COMMENTS O 09.12.2015 CONSTRUCTION ISSUE 1 18.05.2016 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED 2 29.03.2018 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED 3 17.06.2019 AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED WAC 30.10.2019 WORK—AS—CONSTRUCTED A.S.,	N. N. N. N. N.	L.G. L.G. L.G. L.G. V.V.	J.N. J.N. J.N. J.N.	L.G. L.G. L.G. L.G. L.G.	1:250 / 1:500	adw	Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au	PRECINCT 2, STAGE WHISTLER I	SED SUBDIVISION S 2.8 AND 2.9 WATAGAN PARK DRIVE, COORANBONG A/307/2015	PLAN TITLE	POTABLE WATER DETAIL - SHEET 6	. PLAN	
WAC 21.11.2019 LOT NUMBERS UPDATED D.S	.5.					labbas	www.adwjohnson.com.au GROUP	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
DESIGN FILE N:\			•	•	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	johnso	ABN 62 129 445 398	ADW Johnson	A.H.D.	239078(2	2.8 & 2.9) - WAT -	009	WAC

1204

870

STAGE 2.10

868

REMOVED EXISTING FLUSHING
HYDRANT AND THRUST BLOCK
AND CONNECTED TO EXISTING
DN100 RETICULATION PIPEWORK

JOINS DRG-010

PLAN SCALE 1:250 1202

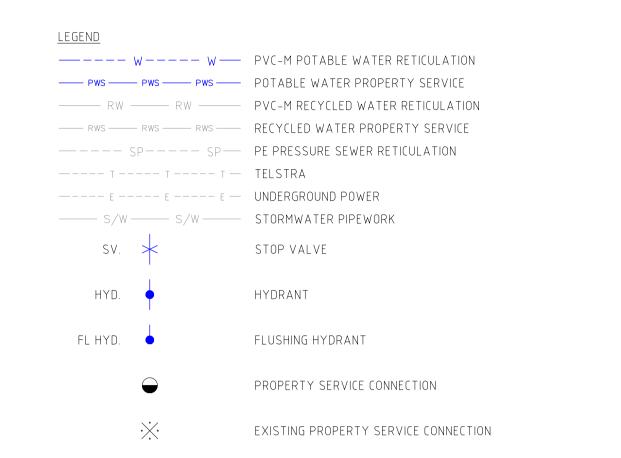
721

854

852







POTABLE WATER PROPERTY SERVICE CONNECTIONS

LIMIT OF SUBDIVISION WORKS

LAY WATER MAIN OVER STORMWATER PIPE

(300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H

TOTAL 49 CONNECTIONS

• SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

-5 x SHORT SIDE

-0 x LONG SIDE

• SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-14 x SHORT SIDE

-8 x LONG SIDE

POT	ABLE WATER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	720

NOTES:

1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-013 TO 019.

2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-022 TO 028.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.

WORK-AS-CONSTRUCTED

REV. DATE	AMENDMENT	DRAWN CHECK DESIGN VERIFY SCALES		CLIENT	PROPERTY DESCRIPTION		PROJECT POT	POTABLE WATER, RECYCLED WATER AND			
A 20.11.2015	PRELIMINARY ISSUE AMENDED ISSUE — FLOW SYSTEMS COMMENTS	J.N. L.G. J.N. L.G. 0 5 10 A1 / A3	Hunter Office Unit 7/335 Hillsborough	24	PROPOSED	SUBDIVISION	PRESSURE SEWER RETICULATION				
0 09.12.2015 1 18.05.2016 - 2 29.03.2018 3 17.06.2019 WAC 30.10.2019	CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED WORK—AS—CONSTRUCTED	J.N. L.G. J.N. J.N. J.N. J.N. J.N. J.N. J.N. J	Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com	JOHNSON PROPERTY	PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK WHISTLER DRIVE, COORANBONG		PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 7			
WAC 21.11.2019 DESIGN FILE N:\	LOT NUMBERS UPDATED	D.S. ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	johnson ABN 62 129 445 398	GROUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078(2.	8 & 2.9) - WAT -	NUMBER 010	WAC	

723

EXISTING

STAGE 2.7

724

725

JOINS DRG-006

850

PLAN SCALE 1:250

REMOVED EXISTING FLUSHING
HYDRANT AND THRUST BLOCK
AND CONNECT TO EXISTING
DN100 RETICULATION PIPEWORK

REMOVED EXISTING FLUSHING HYDRANT AND THRUST BLOCK AND CONNECTED TO EXISTING

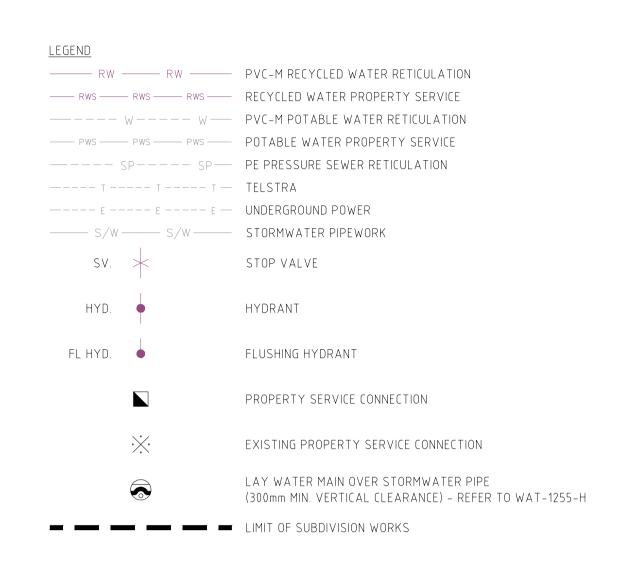
DN100 RETICULATION PIPEWORK

DRAWN CHECK DESIGN VERIFY SCALES POTABLE WATER, RECYCLED WATER AND REV. DATE AMENDMENT CLIENT PROPERTY DESCRIPTION 20.11.2015 PRELIMINARY ISSUE
07.12.2015 AMENDED ISSUE — FLOW SYSTEMS COMMENTS
09.12.2015 CONSTRUCTION ISSUE — SERVICES RELOCATED
1 18.05.2016 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED
2 29.03.2018 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED
3 17.06.2019 AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED
WAC 30.10.2019 WORK—AS—CONSTRUCTED
WAC 21.11.2019 LOT NUMBERS UPDATED **Hunter Office** J.N. L.G.
A.S.A. V.V.
D.S. J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. PRESSURE SEWER RETICULATION Unit 7/335 Hillsborough Rd PROPOSED SUBDIVISION PLAN TITLE Warners Bay N.S.W. 2282 PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK JOHNSON PROPERTY GROUP Phone: (02) 4978 5100 WHISTLER DRIVE, COORANBONG NOT USED Fax: (02) 4978 5199 DA/307/2015 email: hunter@adwjohnson.com.au www.adwjohnson.com.au SURVEYED DATUM PROJECT No. DISCIPLINE WAC NUMBER **Johnson** ABN 62 129 445 398 239078(2.8 & 2.9) - WAT -011 A.H.D. ADW Johnson ALL DIMENSIONS ARE IN METRES. DO NOT SCA



DRAWN CHECK DESIGN VERIFY SCALES POTABLE WATER, RECYCLED WATER AND CLIENT DATE AMENDMENT PROPERTY DESCRIPTION PROJECT **Hunter Office** 20.11.2015 PRELIMINARY ISSUE
07.12.2015 AMENDED ISSUE — FLOW SYSTEMS COMMENTS
09.12.2015 CONSTRUCTION ISSUE
18.05.2016 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED
29.03.2018 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED
17.06.2019 AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED J.N. L.G.
J.N. L.G.
J.N. L.G.
J.N. L.G.
J.N. L.G.
J.N. L.G.
A.S.A. V.V.
D.S. J. N. J. N. J. N. J. N. J. N. PRESSURE SEWER RETICULATION Unit 7/335 Hillsborough Rd PROPOSED SUBDIVISION PLAN TITLE Warners Bay N.S.W. 2282 PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK JOHNSON PROPERTY GROUP Phone: (02) 4978 5100 WHISTLER DRIVE, COORANBONG NOT USED Fax: (02) 4978 5199 DA/307/2015 WAC 30.10.2019 WORK-AS-CONSTRUCTED WAC 21.11.2019 LOT NUMBERS UPDATED email: hunter@adwjohnson.com.au www.adwjohnson.com.au SURVEYED PROJECT No. DISCIPLINE DATUM NUMBER Johnson ABN 62 129 445 398 239078(2.8 & 2.9) - WAT -WAC 012 ADW Johnson A.H.D. ALL DIMENSIONS ARE IN METRES. DO NOT SCA DESIGN FILE N: \





RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 49 CONNECTIONS •SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V -0 x SHORT SIDE -5 x LONG SIDE •SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V -12 x SHORT SIDE $-10 \times LONG SIDE$

REC'	CLED WATER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	750

- NOTES:

 1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 010.

 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-022 TO 038.

 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.

WORK-AS-CONSTRUCTED

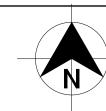
REV	/. [DATE	AMENDMENT	DRAW	CHECK	DESIGN VERIFY SCALES			CLIENT		PROPERTY DESCRIPTION		PROJECT PC	OTABLE WATER, RECYCLED	WATER AND		
A B	20. 07.	.11.2015 .12.2015	PRELIMINARY ISSUE AMENDED ISSUE - FLOW SYSTEMS COMMENTS CONSTRUCTION ISSUE	J.N. J.N.	L.G. L.G.	J.N. L.G. 0 5 J.N. L.G.	10 A1 / A3 1:250 / 1:500		Hunter Office Unit 7/335 Hillsborough Rd		PROPOSED		PLAN TITLE	PRESSURE SEWER RETIC	ULATION		
1 2 3 WAC	18.1 29. 17.1	.05.2016 .03.2018 .06.2019	AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED WORK—AS—CONSTRUCTED	J.N. J.N. J.N.	L.G. L.G. L.G. V V	J.N. L.G. J.N. L.G. J.N. L.G.		adw	Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwichnson.com.au	JOHNSON PROPERTY	PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015		RECYCLED WATER DETAIL PLAN - SHEET 1				
DESIG	C 21.	.11.2019 E N:\	LOT NUMBERS UPDATED	D.S.	V. V.	ALL DIMENSIONS ARE IN M	METRES. DO NOT SCALE	johnson	www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078(2	DISCIPLINE 2.8 & 2.9) - WAT -	NUMBER 013	REV.	

974

PLAN SCALE 1:250 EXTENDED DN100 PIPEWORK 6.6m BEYOND LIMIT OF SUBDIVISION WORKS AND INSTALLED FLUSHING

HYDRANT (TB TYPE 21)

978





<u>LEGEND</u> ----- W---- W--- PVC-M POTABLE WATER RETICULATION ————— SP——— SP—— PE PRESSURE SEWER RETICULATION ----- T----- T---- TELSTRA ---- E ---- E ---- E -- UNDERGROUND POWER ----- S/W ----- STORMWATER PIPEWORK STOP VALVE HYDRANT FL HYD. 🌢 FLUSHING HYDRANT PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H LIMIT OF SUBDIVISION WORKS

RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 49 CONNECTIONS • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V $-0 \times SHORT SIDE$ $-5 \times LONG SIDE$ • SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V -12 x SHORT SIDE $-10 \times LONG SIDE$

REC'	CLED WATER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	750

1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 010.

2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-022 TO 038.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO

DRG-033.

WORK-AS-CONSTRUCTED

DRAWN CHECK DESIGN VERIFY SCALES POTABLE WATER, RECYCLED WATER AND DATE AMENDMENT CLIENT PROPERTY DESCRIPTION **Hunter Office** PRELIMINARY ISSUE AMENDED ISSUE — FLOW SYSTEMS COMMENTS CONSTRUCTION ISSUE PRESSURE SEWER RETICULATION 10 **A1 / A3** Unit 7/335 Hillsborough Rd PROPOSED SUBDIVISION J.N. J.N. J.N. J.N. 1:250 / 1:500 PLAN TITLE J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. J.N. V.V. Warners Bay N.S.W. 2282 PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK 18.05.2016 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED 29.03.2018 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED 17.06.2019 AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED 30.10.2019 WORK—AS—CONSTRUCTED RECYCLED WATER DETAIL PLAN **JOHNSON** Phone: (02) 4978 5100 WHISTLER DRIVE, COORANBONG Fax: (02) 4978 5199 - SHEET 2 PROPERTY GROUP DA/307/2015 email: hunter@adwjohnson.com.au WAC | 21.11.2019 | LOT NUMBERS UPDATED www.adwjohnson.com.au SURVEYED DISCIPLINE ABN 62 129 445 398 239078(2.8 & 2.9) - WAT -WAC ADW Johnson A.H.D. ALL DIMENSIONS ARE IN METRES. DO NOT SCAL ESIGN FILE N:\



SCALE 1:250

978 🌣

1302

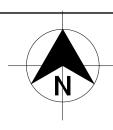
965

1301

FUTURE

STAGE 2.12







LEGEND ----- W---- W--- PVC-M POTABLE WATER RETICULATION ---- T---- T---- T --- TELSTRA ———— E ———— E — UNDERGROUND POWER ----- S/W ----- STORMWATER PIPEWORK STOP VALVE HYD. 🔷 HYDRANT FL HYD. FLUSHING HYDRANT PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) – REFER TO WAT-1255-H LIMIT OF SUBDIVISION WORKS

RECYCLED WATER PROPERTY SERVICE CONNECTIONS

TOTAL 49 CONNECTIONS

SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V

-0 × SHORT SIDE -5 x LONG SIDE

SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V

-12 x SHORT SIDE

-10 x LONG SIDE

REC`	CLED WATER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	750

- NOTES:

 1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 010.

 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-022 TO 038.

 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.

WORK-AS-CONSTRUCTED

_ RE'	/. DATE	AMENDMENT	DRAWN	N CHECK DESIGN VER	RIFY SCALE	_ES		CLIENT		PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED WA	ATER AND	
A B 0 1 2 3 WA	20.11.2015 07.12.2015 09.12.2015 18.05.2016 29.03.2018 17.06.2019 C 30.10.2019	PRELIMINARY ISSUE AMENDED ISSUE — FLOW SYSTEMS COMMENTS CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED WORK—AS—CONSTRUCTED	J.N. J.N. J.N. J.N. J.N. A.S.A.	L.G. J.N. L.I L.G. J.N. L.I L.G. J.N. L.I L.G. J.N. L.I L.G. J.N. L.I V.V.		5 10 A1 / A3 1:250 / 1:500	adw	Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au	OHNSON ROPERTY	PROPOSED S PRECINCT 2, STAGES 2.8 WHISTLER DRIVE DA/307	AND 2.9 WATAGAN PARK , COORANBONG	PLAN TITLE	PRESSURE SEWER RETICULAR RECYCLED WATER DETAIL I - SHEET 3		
DES	IGN FILE N:\	LOT NOMBERS OF DATED	D.S.		ALL DII	DIMENSIONS ARE IN METRES. DO NOT SCALE	johnson	ABN 62 129 445 398	ROUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078	B(2.8 & 2.9) - WAT -	NUMBER 015	WAC

1210

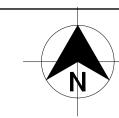
STAGE 2.10

1214

1213

PLAN SCALE 1:250







<u>LEGEND</u> ----- W---- W--- PVC-M POTABLE WATER RETICULATION PWS ---- PWS ---- PWS ---- POTABLE WATER PROPERTY SERVICE ————— SP——— SP—— PE PRESSURE SEWER RETICULATION ----- T----- T---- TELSTRA ---- E ---- E ---- E -- UNDERGROUND POWER ----- S/W ----- STORMWATER PIPEWORK STOP VALVE HYDRANT FL HYD. 🌢 FLUSHING HYDRANT PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H LIMIT OF SUBDIVISION WORKS

RECYCLED WATER PROPERTY SERVICE CONNECTIONS TOTAL 49 CONNECTIONS • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V -0 x SHORT SIDE $-5 \times LONG SIDE$ • SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V -12 x SHORT SIDE $-10 \times LONG SIDE$

REC`	YCLED WATER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	750

1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 010.

2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-022 TO 038.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.

WORK-AS-CONSTRUCTED

DRAWN CHECK DESIGN VERIFY SCALES POTABLE WATER, RECYCLED WATER AND DATE AMENDMENT CLIENT PROPERTY DESCRIPTION **Hunter Office** PRESSURE SEWER RETICULATION PRELIMINARY ISSUE 10 **A1 / A3** Unit 7/335 Hillsborough Rd PROPOSED SUBDIVISION J.N. L.G.
J.N. L.G.
J.N. L.G.
J.N. L.G.
J.N. L.G.
J.N. L.G.
V.V. J.N. J.N. J.N. J.N. AMENDED ISSUE - FLOW SYSTEMS COMMENTS 1:250 / 1:500 PLAN TITLE CONSTRUCTION ISSUE Warners Bay N.S.W. 2282 PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK 18.05.2016 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED 29.03.2018 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED 17.06.2019 AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED RECYCLED WATER DETAIL PLAN **JOHNSON** Phone: (02) 4978 5100 WHISTLER DRIVE, COORANBONG - SHEET 4 Fax: (02) 4978 5199 PROPERTY GROUP DA/307/2015 email: hunter@adwjohnson.com.au 30.10.2019 WORK-AS-CONSTRUCTED WAC | 21.11.2019 | LOT NUMBERS UPDATED www.adwjohnson.com.au SURVEYED DISCIPLINE ABN 62 129 445 398 WAC 239078(2.8 & 2.9) - WAT -016 ADW Johnson A.H.D. ALL DIMENSIONS ARE IN METRES. DO NOT SCAL ESIGN FILE N:\

860

874

861

873

862

JOINS DRG-006

960

959

955

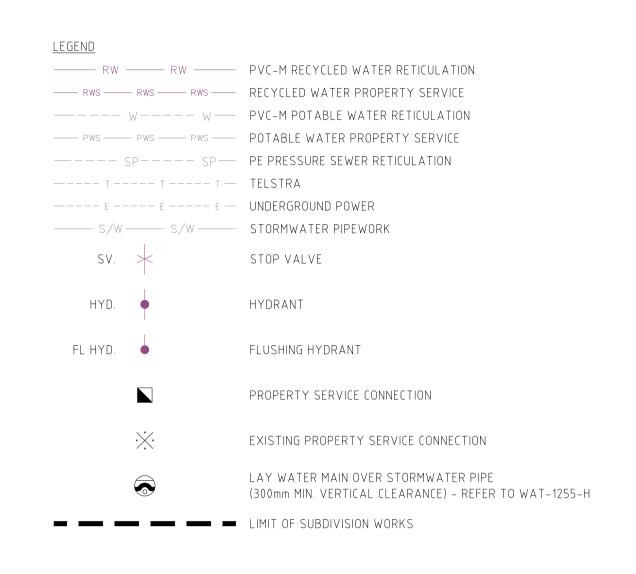
858

JOINS DRG-008

PLAN SCALE 1:250







RECYCLED WATER PROPERTY SERVICE CONNECTIONS TOTAL 49 CONNECTIONS • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V $-0 \times SHORT SIDE$ $-5 \times LONG SIDE$ • SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V -12 x SHORT SIDE $-10 \times LONG SIDE$

REC`	CLED WATER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	750

- 1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 010.
- 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO
- DRGS-022 TO 038.

 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.

WORK-AS-CONSTRUCTED

DRAWN CHECK DESIGN VERIFY SCALES POTABLE WATER, RECYCLED WATER AND DATE AMENDMENT CLIENT PROPERTY DESCRIPTION **Hunter Office** PRELIMINARY ISSUE AMENDED ISSUE — FLOW SYSTEMS COMMENTS CONSTRUCTION ISSUE PRESSURE SEWER RETICULATION 10 **A1 / A3** Unit 7/335 Hillsborough Rd PROPOSED SUBDIVISION J.N. J.N. J.N. J.N. 1:250 / 1:500 PLAN TITLE J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. J.N. V.V. Warners Bay N.S.W. 2282 PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK 18.05.2016 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED
29.03.2018 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED
17.06.2019 AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED
30.10.2019 WORK—AS—CONSTRUCTED RECYCLED WATER DETAIL PLAN JOHNSON Phone: (02) 4978 5100 WHISTLER DRIVE, COORANBONG - SHEET 5 Fax: (02) 4978 5199 PROPERTY GROUP DA/307/2015 email: hunter@adwjohnson.com.au WAC 21.11.2019 LOT NUMBERS UPDATED www.adwjohnson.com.au SURVEYED DATUM DISCIPLINE ABN 62 129 445 398 WAC 239078(2.8 & 2.9) - WAT -017 ADW Johnson A.H.D. ALL DIMENSIONS ARE IN METRES. DO NOT SCAL ESIGN FILE N:\

855

JOINS DRG-007

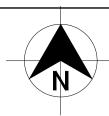
PLAN SCALE 1:250 857

858

873

872







LEGEND ----- W---- W--- PVC-M POTABLE WATER RETICULATION ---- T---- T---- T --- TELSTRA ---- E ---- E ---- E - UNDERGROUND POWER ----- S/W ----- STORMWATER PIPEWORK STOP VALVE HYD. 🔷 HYDRANT FL HYD. FLUSHING HYDRANT PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) – REFER TO WAT-1255-H LIMIT OF SUBDIVISION WORKS

RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 49 CONNECTIONS • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V -0 x SHORT SIDE -5 x LONG SIDE •SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V -12 x SHORT SIDE $-10 \times LONG SIDE$

REC	YCLED WATER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	750

721

722

NOTES: 1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO

DRGS-004 TO 010.

2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-022 TO 038.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.

WORK-AS-CONSTRUCTED

REV. DATE AMENDMENT	DRAW	/N CHECK	(DESIGN	VERIFY SC	CALES		CLIENT		PROPERTY DESCRIPTION		PROJECT P	OTABLE WATER, RECYCLED		
A 20.11.2015 PRELIMINARY ISSUE B 07.12.2015 AMENDED ISSUE — FLOW SYSTEMS COMMENTS 0 09.12.2015 CONSTRUCTION ISSUE 1 18.05.2016 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATE 2 29.03.2018 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATE 3 17.06.2019 AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED WAC 30.10.2019 WORK—AS—CONSTRUCTED	J.N. J.N. J.N. D J.N. J.N.	L.G. L.G. L.G. L.G. L.G.	J.N. J.N. J.N. J.N. J.N.	L.G. L.G. L.G. L.G. L.G.	0 5 10 A1 / A3 1:250 / 1:500	adw	Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwichnson.com.gu	JOHNSON PROPERTY	PRECINCT 2, STAGE WHISTLER	SED SUBDIVISION S 2.8 AND 2.9 WATAGAN PARK DRIVE, COORANBONG DA/307/2015	PLAN TITLE	PRESSURE SEWER RETICION RECYCLED WATER DETA - SHEET 6		
WAC 21.11.2019 LOT NUMBERS UPDATED DESIGN FILE N: \	D.S.			ALL	L DIMENSIONS ARE IN METRES. DO NOT SCALE	johnsol	www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078(DISCIPLINE 2.8 & 2.9) - WAT -	NUMBER - 018	REV.

REMOVED EXISTING FLUSHING
HYDRANT AND THRUST BLOCK
AND CONNECTED TO EXISTING
DN100 RETICULATION PIPEWORK

1204

870

JOINS DRG-010

PLAN SCALE 1:250 STAGE 2.10

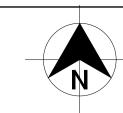
868

854

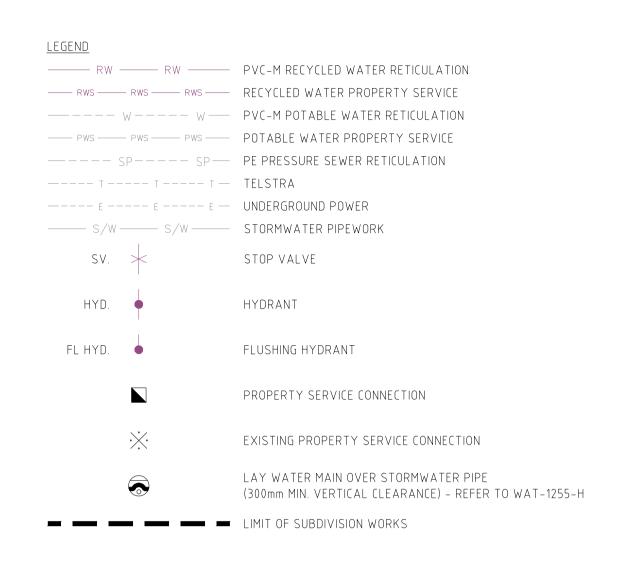
852

REMOVED EXISTING FLUSHING
HYDRANT AND THRUST BLOCK —
AND CONNECTED TO EXISTING
DN100 RETICULATION PIPEWORK









RECYCLED WATER PROPERTY SERVICE CONNECTIONS
TOTAL 49 CONNECTIONS • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V -0 x SHORT SIDE -5 x LONG SIDE •SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V -12 x SHORT SIDE $-10 \times LONG SIDE$

REC`	YCLED WATER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	750

- NOTES:

 1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 010.

 2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-022 TO 038.

 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.

WORK-AS-CONSTRUCTED

RE	V.	DATE	AMENDMENT	DRAW	CHEC	DESIGN VERIFY SCALES			CLIENT		PROPERTY DESCRIPTION		PROJECT POTABLE WATER, RECYCLED WATE	ER AND	
A B	A 20	20.11.2015	PRELIMINARY ISSUE AMENDED ISSUE — FLOW SYSTEMS COMMENTS	J.N. J.N.	L.G. L.G.	J.N. L.G. 0 J.N. L.G.	5 10 A1 / A3 1:250 / 1:500		Hunter Office Unit 7/335 Hillsborough Rd		PROPOSED	SUBDIVISION	PRESSURE SEWER RETICULATI	ION	
1 2 3 WA) 09 1 18 2 29 3 17	8.05.2016 8.05.2016 9.03.2018 7.06.2019	AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED WORK—AS—CONSTRUCTED	J.N. J.N. J.N. J.N.	L.G. L.G. L.G. V V	J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G.		adw	Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwichnson.com.au	JOHNSON PROPERTY	WHISTLER DRIV	3 AND 2.9 WATAGAN PARK E, COORANBONG 07/2015	RECYCLED WATER DETAIL PLA - SHEET 7	AN	
WAG	SIGN FIL	21.11.2019	LOT NUMBERS UPDATED	D.S.	V. V.	ALL DIMENSIONS A	ARE IN METRES. DO NOT SCAL	johnsol	www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED ADW Johnson	DATUM A.H.D.		NUMBER 019	REV.

723

EXISTING

STAGE 2.7

724

725

JOINS DRG-006

850

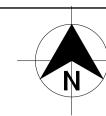
PLAN scale 1:250



DRAWN CHECK DESIGN VERIFY SCALES POTABLE WATER, RECYCLED WATER AND CLIENT DATE AMENDMENT PROPERTY DESCRIPTION PROJECT **Hunter Office** 20.11.2015 PRELIMINARY ISSUE
07.12.2015 AMENDED ISSUE — FLOW SYSTEMS COMMENTS
09.12.2015 CONSTRUCTION ISSUE
18.05.2016 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED
29.03.2018 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED
17.06.2019 AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED J.N. L.G.
A.S.A. V.V.
D.S. J. N. J. N. J. N. J. N. J. N. PRESSURE SEWER RETICULATION Unit 7/335 Hillsborough Rd PROPOSED SUBDIVISION PLAN TITLE Warners Bay N.S.W. 2282 PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK JOHNSON PROPERTY GROUP Phone: (02) 4978 5100 WHISTLER DRIVE, COORANBONG NOT USED Fax: (02) 4978 5199 DA/307/2015 WAC 30.10.2019 WORK-AS-CONSTRUCTED WAC 21.11.2019 LOT NUMBERS UPDATED email: hunter@adwjohnson.com.au www.adwjohnson.com.au SURVEYED PROJECT No. DISCIPLINE DATUM NUMBER johnson ABN 62 129 445 398 WAC 239078(2.8 & 2.9) - WAT -020 ADW Johnson A.H.D. ALL DIMENSIONS ARE IN METRES. DO NOT SCAL DESIGN FILE N: \



DRAWN CHECK DESIGN VERIFY SCALES POTABLE WATER, RECYCLED WATER AND CLIENT DATE AMENDMENT PROPERTY DESCRIPTION PROJECT **Hunter Office** 20.11.2015 PRELIMINARY ISSUE
07.12.2015 AMENDED ISSUE — FLOW SYSTEMS COMMENTS
09.12.2015 CONSTRUCTION ISSUE
18.05.2016 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED
29.03.2018 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED
17.06.2019 AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED J.N. L.G.
A.S.A. V.V.
D.S. J. N. J. N. J. N. J. N. J. N. PRESSURE SEWER RETICULATION Unit 7/335 Hillsborough Rd PROPOSED SUBDIVISION PLAN TITLE Warners Bay N.S.W. 2282 PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK JOHNSON PROPERTY GROUP Phone: (02) 4978 5100 WHISTLER DRIVE, COORANBONG NOT USED Fax: (02) 4978 5199 DA/307/2015 WAC 30.10.2019 WORK-AS-CONSTRUCTED WAC 21.11.2019 LOT NUMBERS UPDATED email: hunter@adwjohnson.com.au www.adwjohnson.com.au SURVEYED PROJECT No. DISCIPLINE DATUM NUMBER johnson ABN 62 129 445 398 WAC 239078(2.8 & 2.9) - WAT -021 ADW Johnson A.H.D. ALL DIMENSIONS ARE IN METRES. DO NOT SCAL DESIGN FILE N: \





<u>LEGEND</u> — — — — SP— PE PRESSURE SEWER RETICULATION ----- W---- W--- PVC-M POTABLE WATER RETICULATION RW ----- RW ----- PVC-M RECYCLED WATER RETICULATION ---- T---- T---- TELSTRA ---- E ---- E ---- E - UNDERGROUND POWER ----- S/W ----- STORMWATER PIPEWORK ISOLATION VALVE FLUSHING POINT WASTEWATER COLLECTION TANK AND BOUNDARY KIT PRESSURE SEWER FLOW DIRECTION (SEE NOTE 8) PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H LIMIT OF SUBDIVISION WORKS

> PRESSURE SEWER PROPERTY SERVICE CONNECTIONS TOTAL 49 CONNECTIONS • SINGLE SERVICES -16 x SHORT SIDE $-33 \times LONG SIDE$

PRES	PRESSURE SEWER PIPE DATA												
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)											
DN63	PE100 PN16	153											
DN50	PE100 PN16	561											

1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO

DRGS-004 TO 010.

2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-013 AND 019.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.

4. FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.

5. CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.

6. <u>ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS</u> (FABRICATED BENDS SHALL NOT BE USED). 7. DN280 AND DN250 PE PRESSURE SEWER MAIN TO BE

LAID TO GRADE. 8. DIRECTION OF FLOW OF PRESSURE SEWER SHOWN ON THESE DRAWINGS IS TEMPORARY.

FLOW ALONG SHIPWRIGHT STREET WILL BE REDIRECTED THROUGH STAGES 2.10, AND 2.11 AFTER CONSTRUCTION OF STAGES 2.10 AND 2.11 HAS BEEN COMPLETED. FLOW ALONG CARROLL CIRCUIT WILL BE REDIRECTED THROUGH STAGE 2.12 AFTER CONSTRUCTION OF STAGE 2.12 HAS BEEN COMPLETED.

WORK-AS-CONSTRUCTED

DRAWN CHECK DESIGN VERIFY SCALES DATE **AMENDMENT** CLIENT POTABLE WATER, RECYCLED WATER AND PROPERTY DESCRIPTION **Hunter Office** PRELIMINARY ISSUE PRESSURE SEWER RETICULATION 10 **A1 / A3** Unit 7/335 Hillsborough Rd J.N. J.N. J.N. J.N. J.N. PROPOSED SUBDIVISION AMENDED ISSUE - FLOW SYSTEMS COMMENTS 1:250 / 1:500 PLAN TITLE CONSTRUCTION ISSUE Warners Bay N.S.W. 2282 PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED 18.05.2016 PRESSURE SEWER DETAIL PLAN JOHNSON Phone: (02) 4978 5100 J.N. L.G. J.N. L.G. A.S.A. V.V. WHISTLER DRIVE, COORANBONG - SHEET 1 Fax: (02) 4978 5199 AMENDED CONSTRUCTION ISSUE - TANK LEVELS UPDATED **PROPERTY** 17.06.2019 DA/307/2015 email: hunter@adwjohnson.com.au WORK-AS-CONSTRUCTED 30.10.2019 GROUP WAC | 21.11.2019 | LOT NUMBERS UPDATED www.adwjohnson.com.au SURVEYED DATUM DISCIPLINE NUMBER ABN 62 129 445 398 239078(2.8 & 2.9) WAC – WAT – A.H.D. ADW Johnson ALL DIMENSIONS ARE IN METRES. DO NOT SCA ESIGN FILE N:\

974

PLAN SCALE 1:250 EXTENDED DN63 PIPEWORK 5.0m BEYOND LIMIT OF SUBDIVISION

WORKS AND CAPPED

978

977





<u>LEGEND</u> ----- W---- W--- PVC-M POTABLE WATER RETICULATION ----- RW ------ PVC-M RECYCLED WATER RETICULATION ---- T---- T---- TELSTRA ---- E ---- E ---- E -- UNDERGROUND POWER ISOLATION VALVE FLUSHING POINT WASTEWATER COLLECTION TANK AND BOUNDARY KIT PRESSURE SEWER FLOW DIRECTION (SEE NOTE 8) PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H LIMIT OF SUBDIVISION WORKS

PRESSURE SEWER PROPERTY SERVICE CONNECTIONS

TOTAL 49 CONNECTIONS

SINGLE SERVICES

-16 x SHORT SIDE

-33 x LONG SIDE

PRES	PRESSURE SEWER PIPE DATA											
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)										
DN63	PE100 PN16	153										
DN50	PE100 PN16	561										

NOTES:

1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO

DRGS-004 TO 010.
2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO

DRGS-013 AND 019.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.

4. FOR FLUSHING POINT TYPICAL DETAILS REFER TO

STANDARD DRAWING PSS-1017-FS.

5. CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.

6. ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS

(FABRICATED BENDS SHALL NOT BE USED).
7. DN280 AND DN250 PE PRESSURE SEWER MAIN TO BE

LAID TO GRADE.

8. DIRECTION OF FLOW OF PRESSURE SEWER SHOWN ON THESE DRAWINGS IS TEMPORARY.
FLOW ALONG SHIPWRIGHT STREET WILL BE REDIRECTED THROUGH STAGES 2.10, AND 2.11 AFTER CONSTRUCTION OF STAGES 2.10 AND 2.11 HAS BEEN COMPLETED.
FLOW ALONG CARROLL CIRCUIT WILL BE REDIRECTED

THROUGH STAGE 2.12 AFTER CONSTRUCTION OF STAGE 2.12 HAS BEEN COMPLETED.

WORK-AS-CONSTRUCTED

REV	V.	DATE	AMENDMENT	DRAWI	CHECK	DESIGN VERIFY SCALES			CLIEN	Т	PROPERTY DESCRIPTION		PROJECT POTABLE WATER, REC	YCLED WATER ANI	D
A B	07	0.11.2015 7.12.2015	PRELIMINARY ISSUE AMENDED ISSUE — FLOW SYSTEMS COMMENTS CONSTRUCTION ISSUE	J.N. J.N.	L.G. L.G.	J.N. L.G. 0 5 J.N. L.G.	10 A1 / A3 1:250 / 1:500		Hunter Office Unit 7/335 Hillsborough Rd			SUBDIVISION	PRESSURE SEWER	RETICULATION	
1 - 2 3 WAG	18 29 17	3.05.2016 3.05.2016 9.03.2018 7.06.2019	AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED WORK—AS—CONSTRUCTED	J.N. J.N. J.N.	L.G. L.G. L.G.	J.N. L.G. J.N. L.G. J.N. L.G.		adw	Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwichpson.com.gu	JOHNSON PROPERTY	WHISTLER DRIV	AND 2.9 WATAGAN PARK E, COORANBONG 7/2015	PRESSURE SEWE - SHEE		
WAC	C 21	1.11.2019 _E N:\	LOT NUMBERS UPDATED	D.S.	V. V.	ALL DIMENSIONS ARE IN	METRES. DO NOT SCALE	johnsor	www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. DISCIPLINE 239078(2.8 & 2.9) - V	/AT - 023	REV.

974

972

SCALE 1:250

978 🌣

1302

965

DN63 x DN63 EQUAL TEE

DN63 x DN50 REDUCING COUPLER

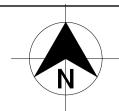
DN63 x DN50 REDUCING COUPLER (OFFTAKE)

1301

FUTURE

STAGE 2.12







<u>LEGEND</u> ----- W---- W--- PVC-M POTABLE WATER RETICULATION RW ----- RW ----- PVC-M RECYCLED WATER RETICULATION ---- T---- T---- TELSTRA ---- E ---- E ---- E -- UNDERGROUND POWER ISOLATION VALVE FLUSHING POINT WASTEWATER COLLECTION TANK AND BOUNDARY KIT PRESSURE SEWER FLOW DIRECTION (SEE NOTE 8) PROPERTY SERVICE CONNECTION EXISTING PROPERTY SERVICE CONNECTION LAY WATER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H LIMIT OF SUBDIVISION WORKS

> PRESSURE SEWER PROPERTY SERVICE CONNECTIONS TOTAL 49 CONNECTIONS •SINGLE SERVICES
>
> -16 × SHORT SIDE
>
> -33 × LONG SIDE

PRES	PRESSURE SEWER PIPE DATA												
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)											
DN63	PE100 PN16	153											
DN50	PE100 PN16	561											

1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 010.

2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-013 AND 019.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO

DRG-033.

4. FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.

5. CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.

6. <u>ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS</u>

(FABRICATED BENDS SHALL NOT BE USED). 7. DN280 AND DN250 PE PRESSURE SEWER MAIN TO BE LAID TO GRADE.

8. DIRECTION OF FLOW OF PRESSURE SEWER SHOWN ON THESE DRAWINGS IS TEMPORARY. FLOW ALONG SHIPWRIGHT STREET WILL BE REDIRECTED THROUGH STAGES 2.10, AND 2.11 AFTER CONSTRUCTION OF STAGES 2.10 AND 2.11 HAS BEEN COMPLETED.

FLOW ALONG CARROLL CIRCUIT WILL BE REDIRECTED THROUGH STAGE 2.12 AFTER CONSTRUCTION OF STAGE 2.12 HAS BEEN COMPLETED.

WORK-AS-CONSTRUCTED

A A	7. DATE 20.11.2015	AMENDMENT 5 PRELIMINARY ISSUE 6 AMENDED ISSUE 6 AMENDED ISSUE 7 AMENDED ISSUE 7 AMENDED ISSUE 8 AMENDED ISSUE 9 AMENDED ISSUE 10 AMENDED ISSUE 11 AMENDED ISSUE 12 AMENDED ISSUE 13 AMENDED ISSUE 14 AMENDED ISSUE 15 AMENDED ISSUE 16 AMENDED ISSUE 17 AMENDED ISSUE 18 A	J.N.	CHECK DESIGN VERIF	0 5 10 A1 / A3	Hunter Office Unit 7/335 Hillshorough Rd			PROPERTY DESCRIPTION PROPOSED SUBDIVISION		PROJECT	POTABLE WATER, RECYCLED WA		
1 0 1 2 3 WA	09.12.2015 18.05.2016 29.03.2018 17.06.2019	CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED WORK—AS—CONSTRUCTED	J.N. J.N. J.N. J.N. A.S.A	L.G. J.N. L.G. L.G. J.N. L.G. L.G. J.N. L.G. L.G. J.N. L.G. V.V. L.G.	1:250 / 1:500	adw	Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au	ERTY	PRECINCT 2, STAGES 2. WHISTLER DRI\	8 AND 2.9 WATAGAN PARK E, COORANBONG 07/2015	PLAN TITLE	PRESSURE SEWER DETAIL F - SHEET 3	PLAN	
DES	GN FILE N:\	DI NUMBERS OPDATED	D.5.		ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	johnsor	www.adwjohnson.com.au ABN 62 129 445 398	P	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 23907	78(2.8 & 2.9) - WAT -	NUMBER 024	WAC

1210

STAGE 2.10

1209

1214

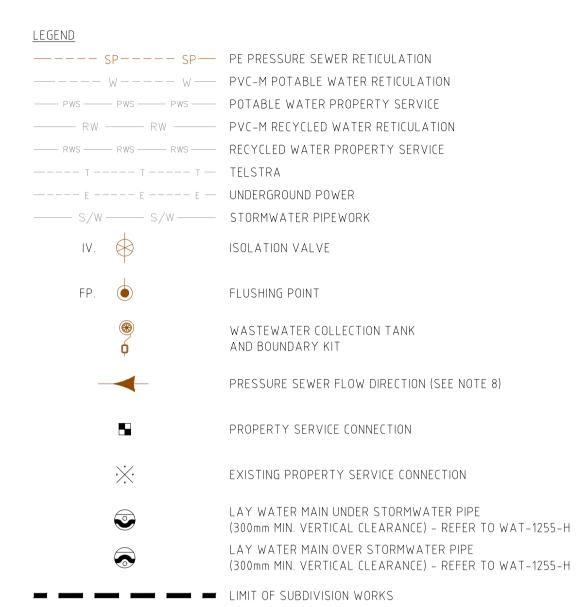
1213

JOINS DRG-025

PLAN SCALE 1:250



BEFORE YOU DIG



PRESSURE SEWER PROPERTY SERVICE CONNECTIONS TOTAL 49 CONNECTIONS • SINGLE SERVICES -16 x SHORT SIDE $-33 \times LONG SIDE$

PRESSURE SEWER PIPE DATA										
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)								
DN63	PE100 PN16	153								
DN50	PE100 PN16	561								

1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO

DRGS-004 TO 010. 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-013 AND 019.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO

DRG-033.

4. FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.

5. CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.

6. ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED). 7. DN280 AND DN250 PE PRESSURE SEWER MAIN TO BE

LAID TO GRADE. 8. DIRECTION OF FLOW OF PRESSURE SEWER SHOWN ON THESE DRAWINGS IS TEMPORARY. FLOW ALONG SHIPWRIGHT STREET WILL BE REDIRECTED THROUGH STAGES 2.10, AND 2.11 AFTER CONSTRUCTION

OF STAGES 2.10 AND 2.11 HAS BEEN COMPLETED. FLOW ALONG CARROLL CIRCUIT WILL BE REDIRECTED THROUGH STAGE 2.12 AFTER CONSTRUCTION OF STAGE 2.12 HAS BEEN COMPLETED.

WORK-AS-CONSTRUCTED

DRAWN CHECK DESIGN VERIFY SCALES DATE **AMENDMENT** CLIENT POTABLE WATER, RECYCLED WATER AND PROPERTY DESCRIPTION **Hunter Office** PRELIMINARY ISSUE PRESSURE SEWER RETICULATION 10 **A1 / A3** Unit 7/335 Hillsborough Rd J.N. J.N. J.N. J.N. J.N. PROPOSED SUBDIVISION AMENDED ISSUE - FLOW SYSTEMS COMMENTS 1:250 / 1:500 PLAN TITLE CONSTRUCTION ISSUE Warners Bay N.S.W. 2282 PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED 18.05.2016 PRESSURE SEWER DETAIL PLAN JOHNSON Phone: (02) 4978 5100 J.N. L.G. J.N. L.G. A.S.A. V.V. WHISTLER DRIVE, COORANBONG - SHEET 4 Fax: (02) 4978 5199 AMENDED CONSTRUCTION ISSUE - TANK LEVELS UPDATED **PROPERTY** 17.06.2019 DA/307/2015 WORK-AS-CONSTRUCTED email: hunter@adwjohnson.com.au 30.10.2019 GROUP WAC | 21.11.2019 | LOT NUMBERS UPDATED www.adwjohnson.com.au SURVEYED DATUM DISCIPLINE NUMBER ABN 62 129 445 398 239078(2.8 & 2.9) WAC – WAT – A.H.D. ADW Johnson ALL DIMENSIONS ARE IN METRES. DO NOT SCA ESIGN FILE N:\

860

874

861

873

862

JOINS DRG-024

960

959

955

858

JOINS DRG-026

PLAN SCALE 1:250

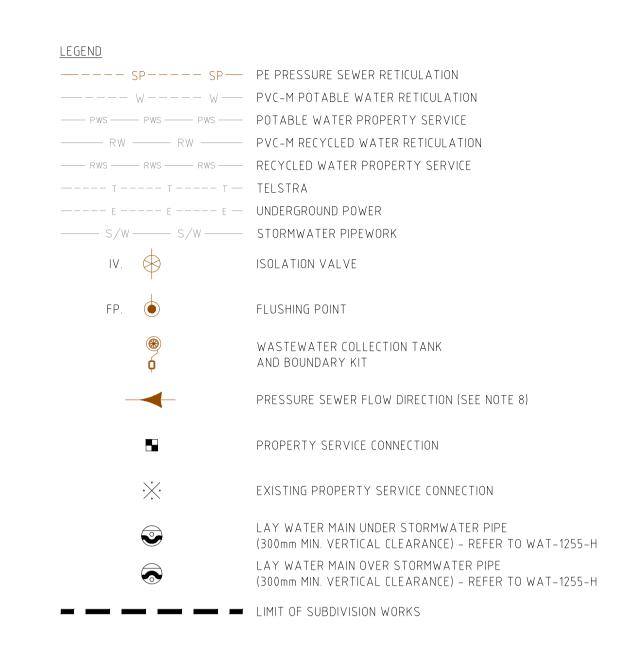
DN63 x DN63 EQUAL TE

DN63 x DN50 REDUCING COUPLER /

DN63 x DN50 REDUCING COUPLER (OFFTAKE)







PRESSURE SEWER PROPERTY SERVICE CONNECTIONS TOTAL 49 CONNECTIONS • SINGLE SERVICES -16 x SHORT SIDE $-33 \times LONG SIDE$

PRES	PRESSURE SEWER PIPE DATA											
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)										
DN63	PE100 PN16	153										
DN50	PE100 PN16	561										

1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 010.

2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-013 AND 019.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-033.

4. FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.

5. CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.

6. <u>ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS</u> (FABRICATED BENDS SHALL NOT BE USED). 7. DN280 AND DN250 PE PRESSURE SEWER MAIN TO BE LAID TO GRADE.

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JOINS DRG-025
955
858 22 ₀ 858 857
21.4 So RW
855 20.8 2
19.4 19.2 19.6 19.8 19.5 19.6 19.8 19.5 19.5 19.5 19.5 19.5 19.5 19.5 19.5
18.4 19.2 19.8 19.0 19.8 19.6 19.6 19.6 19.6 19.6 19.6 19.6 19.6
18.4 19.4 19.2 18.6 19.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0
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18.0 19.6 19.6 19.6 17.6 18.6 18.6 18.6 18.6 18.6 18.6 18.6 18
17.4
PLAN SCALE 1:250

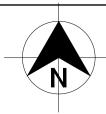
REV	/. DATE	AMENDMENT	DRAW	N CHECK DE	SIGN VE	RIFY SCALES			CLIENT		PROPERTY DESCRIPTION		PROJECT POTABLE	WATER, RECYCLED W	ATER AND	
A B	20.11.2015	PRELIMINARY ISSUE AMENDED ISSUE — FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N. L		A1 / A3 :250 / 1:500		Hunter Office Unit 7/335 Hillsborough Rd		PROPOSED	SUBDIVISION		SSURE SEWER RETICUL	LATION	
	09.12.2015	CONSTRUCTION ISSUE — SERVICES RELOCATED	J.N.	L.G.	J.N. L	G. 1	.250 / 1.500		Warners Bay N.S.W. 2282		PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK	PLAN TITLE	COUDE CEWED DETAIL	DLAN		
- 2 3	29.03.2018	AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED	J.N.	L.G.		G.	ac	\ \/	Phone: (02) 4978 5100 Fax: (02) 4978 5199			E, COORANBONG	PRE	SSURE SEWER DETAIL - SHEET 5	. PLAIN	
WAC	C 30.10.2019	WORK-AS-CONSTRUCTED	A.S.A.	. V.V.)		<u>u</u>		email: hunter@adwjohnson.com.au	KIY	DA/30	07/2015		-		
	21.11.2019	LOT NOMBERS OF DATED	D.S.				DO NOT SCALE JOHN	ncon	www.adwjohnson.com.au ABN 62 129 445 398		SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
DESI	IGN FILE N: \					ALL DIMENSIONS ARE IN METRES.	DO NOT SCALE	13011			ADW Johnson	A.H.D.	239078(2.8 &	2.9) - WAT -	026	WAC

873

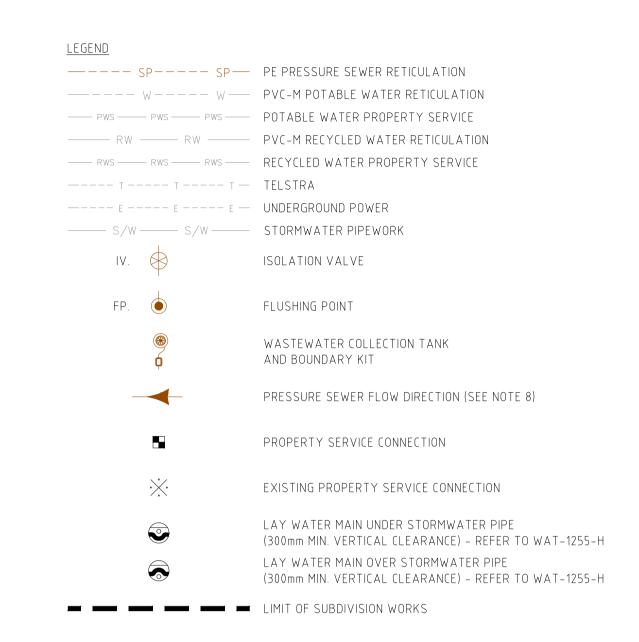
872

863

864







PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
TOTAL 49 CONNECTIONS
SINGLE SERVICES
-16 × SHORT SIDE
-33 × LONG SIDE

PRES	SSURE SEWER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 PN16	153
DN50	PE100 PN16	561

OTES:

1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 010.

2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-013 AND 019.

3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO

DRG-033.

4. FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.

5. CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
 6. ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS

(FABRICATED BENDS SHALL NOT BE USED).

7. DN280 AND DN250 PE PRESSURE SEWER MAIN TO BE LAID TO GRADE.

8. DIRECTION OF FLOW OF PRESSURE SEWER SHOWN ON THESE DRAWINGS IS TEMPORARY.
FLOW ALONG SHIPWRIGHT STREET WILL BE REDIRECTED THROUGH STAGES 2.10, AND 2.11 AFTER CONSTRUCTION OF STAGES 2.10 AND 2.11 HAS BEEN COMPLETED. FLOW ALONG CARROLL CIRCUIT WILL BE REDIRECTED

THROUGH STAGE 2.12 AFTER CONSTRUCTION OF STAGE 2.12 HAS BEEN COMPLETED.

WORK-AS-CONSTRUCTED

REV. DATE AMENDMENT	DRAWN	CHECK	DESIG	SN VERI	SCALES		CLIENT		PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED		
A 20.11.2015 PRELIMINARY ISSUE B 07.12.2015 AMENDED ISSUE — FLOW SYSTEMS COMMENTS	J.N. J.N.	L.G. L.G.	J.N J.N	. L.G . L.G	0 5 10 A1 / A3 1:250 / 1:500		Hunter Office Unit 7/335 Hillsborough Rd		PROPOS	SED SUBDIVISION		PRESSURE SEWER RETIO	CULATION	
0 09.12.2015 CONSTRUCTION ISSUE 1 18.05.2016 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED 2 29.03.2018 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED 3 17.06.2019 AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED WAC 30.10.2019 WORK—AS—CONSTRUCTED	J.N. J.N. J.N. J.N. A.S.A.	L.G. L.G. L.G. V.V.	J.N J.N J.N J.N	L.G L.G L.G L.G	1.250 / 1.500	adw	Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au	ERTY	PRECINCT 2, STAGES WHISTLER D	S 2.8 AND 2.9 WATAGAN PARK PRIVE, COORANBONG A/307/2015	PLAN TITLE	PRESSURE SEWER DETA - SHEET 6	AIL PLAN	
7AC 21.11.2019 LOT NUMBERS UPDATED	D.S.					lobpsor	www.adwjohnson.com.au ARN 62 120 445 308	P	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
PESIGN FILE N:\	•				ALL DIMENSIONS ARE IN METRES. DO NOT SCAL	Johnsor	ABN 62 129 445 398		ADW Johnson	A.H.D.	239078	8(2.8 & 2.9) - WAT	- 027	WAC

1204

870

JOINS DRG-028

PLAN SCALE 1: 250 STAGE 2.10

868

REMOVED EXISTING END CAP

DN50 PRESSURE SEWER

_PIPEW0RK

AND CONNECTED TO EXISTING

1202

721

722

ISOLATION VALVE CONSTRUCTED AS

PART OF STAGE 2.7 WORKS TO BE <7.6

CLOSED FOLLOWING COMPLETION OF

STAGES 2.10 AND 2.11 TO REDIRECT FLOW

854

853

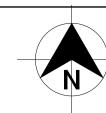
852

REMOVED EXISTING END CAP

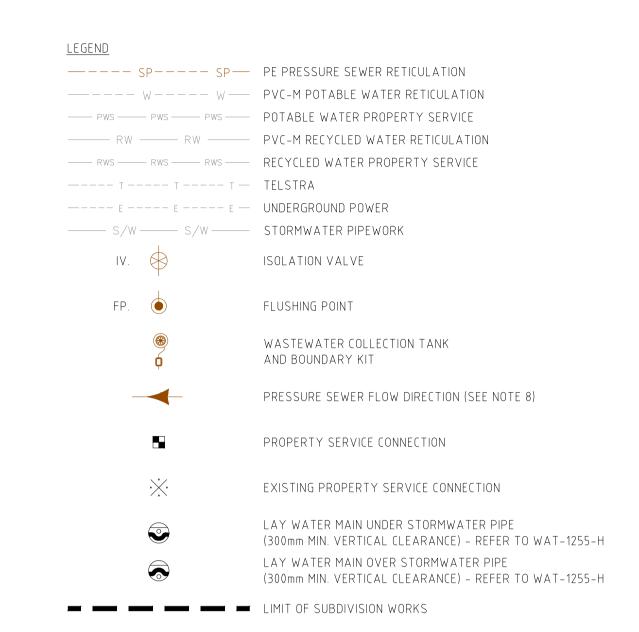
AND CONNECTED TO EXISTING _

DN50 PRESSURE SEWER

PIPEWORK







PRESSURE SEWER PROPERTY SERVICE CONNECTIONS TOTAL 49 CONNECTIONS • SINGLE SERVICES -16 × SHORT SIDE -33 × LONG SIDE

PRES	SSURE SEWER PIPE	DATA
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 PN16	153
DN50	PE100 PN16	561

1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO

DRGS-004 TO 010. 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO

DRGS-013 AND 019. 3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO

DRG-033.

4. FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.

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THROUGH STAGE 2.12 AFTER CONSTRUCTION OF STAGE 2.12 HAS BEEN COMPLETED.

WORK-AS-CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIF	SCALES		CLIENT		PROPERTY DESCRIPTION		PROJECT P	OTABLE WATER, RECYCLED V		
A 2 B 0	20.11.2015)7.12.2015	PRELIMINARY ISSUE AMENDED ISSUE — FLOW SYSTEMS COMMENTS	J.N. J.N.	L.G. L.G.	J.N. J.N.	L.G. L.G.	0 5 10 A1 / A3 1:250 / 1:500		Hunter Office Unit 7/335 Hillsborough Rd		PROPOS	ED SUBDIVISION	DI ANI TITI E	PRESSURE SEWER RETICU	JLATION	
0 0 1 1 2 2 3 1 WAC 3	09.12.2015 8.05.2016 9.03.2018 7.06.2019 30.10.2019	CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED WORK—AS—CONSTRUCTED	J.N. J.N. J.N. J.N. A.S.A.	L.G. L.G. L.G. V.V.	J.N. J.N. J.N. J.N.	L.G. L.G. L.G. L.G.		adw		JOHNSON PROPERTY	WHISTLER D	2.8 AND 2.9 WATAGAN PARK RIVE, COORANBONG /307/2015	PLAN TITLE	PRESSURE SEWER DETAIL - SHEET 7	L PLAN	
WAC	21.11.2019	LOT NOMBERS OPDATED	D.S.					lohnsor	www.adwjohnson.com.au ARN 62 129 445 398	GROUP	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
DESIGN F	TLE N:\						ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	ijohnsor	ADIN 02 123 TTO 330		ADW Johnson	A.H.D.	239078(2.8 & 2.9) - WAT -	028	WAC

PART OF STAGE 2.7 WORKS TO BE CLOSED FOLLOWING COMPLETION OF STAGES 2.10 AND 2.11 TO REDIRECT FLOW

> ISOLATION VALVE CONSTRUCTED AS PART OF STAGE 2.7 WORKS TO BE_

CLOSED FOLLOWING COMPLETION OF STAGE 2.12 TO REDIRECT FLOW

723

EXISTING

STAGE 2.7

724

725

JOINS DRG-027

850

SCALE 1:250



DRAWN CHECK DESIGN VERIFY SCALES POTABLE WATER, RECYCLED WATER AND CLIENT DATE AMENDMENT PROPERTY DESCRIPTION PROJECT **Hunter Office** 20.11.2015 PRELIMINARY ISSUE
07.12.2015 AMENDED ISSUE — FLOW SYSTEMS COMMENTS
09.12.2015 CONSTRUCTION ISSUE
18.05.2016 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED
29.03.2018 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED
17.06.2019 AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED J.N. L.G.
A.S.A. V.V.
D.S. J. N. J. N. J. N. J. N. J. N. PRESSURE SEWER RETICULATION Unit 7/335 Hillsborough Rd PROPOSED SUBDIVISION PLAN TITLE Warners Bay N.S.W. 2282 PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK JOHNSON PROPERTY GROUP Phone: (02) 4978 5100 WHISTLER DRIVE, COORANBONG NOT USED Fax: (02) 4978 5199 DA/307/2015 WAC 30.10.2019 WORK-AS-CONSTRUCTED WAC 21.11.2019 LOT NUMBERS UPDATED email: hunter@adwjohnson.com.au www.adwjohnson.com.au SURVEYED PROJECT No. DISCIPLINE DATUM NUMBER johnson ABN 62 129 445 398 WAC 239078(2.8 & 2.9) - WAT -029 ADW Johnson A.H.D. ALL DIMENSIONS ARE IN METRES. DO NOT SCAL DESIGN FILE N: \



DRAWN CHECK DESIGN VERIFY SCALES DATE AMENDMENT 20.11.2015 PRELIMINARY ISSUE
07.12.2015 AMENDED ISSUE — FLOW SYSTEMS COMMENTS
09.12.2015 CONSTRUCTION ISSUE
18.05.2016 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED
29.03.2018 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED
17.06.2019 AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED J.N. L.G.
A.S.A. V.V.
D.S. J. N. J. N. J. N. J. N. J. N. WAC 30.10.2019 WORK-AS-CONSTRUCTED WAC 21.11.2019 LOT NUMBERS UPDATED ALL DIMENSIONS ARE IN METRES. DO NOT SCAL DESIGN FILE N: \

johnson ABN 62 129 445 398

Hunter Office

Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au

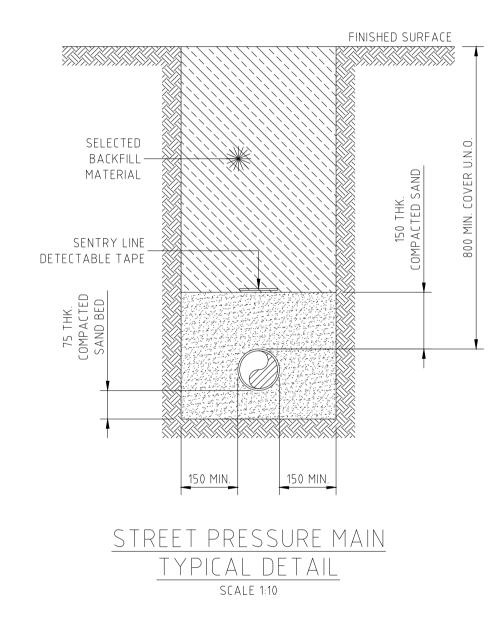
CLIENT JOHNSON PROPERTY GROUP

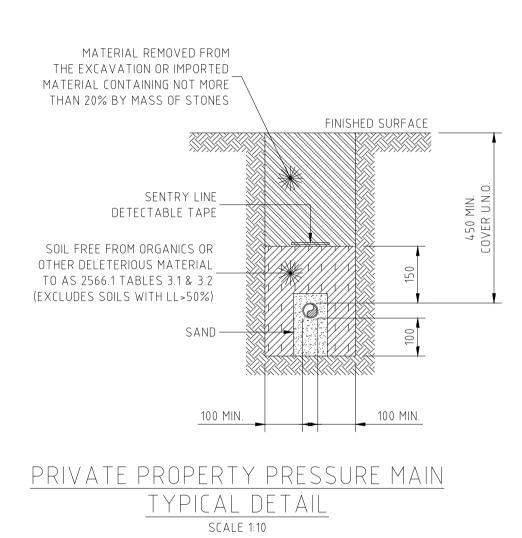
PROPERTY DESCRIPTION PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK WHISTLER DRIVE, COORANBONG

POTABLE WATER, RECYCLED WATER AND PROJECT PRESSURE SEWER RETICULATION PLAN TITLE

NOT USED DA/307/2015

SURVEYED PROJECT No. DISCIPLINE DATUM NUMBER WAC 239078(2.8 & 2.9) - WAT -030 ADW Johnson A.H.D.





NOTES:

1. ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.

_ [REV. DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIF	SCALES			CLIENT	PROPERTY DESCRIPTION		PROJECT POTABLE	E WATER, RECYCLED W	ATER AND	
	A 20.11.2015	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	0 0.1 0.2 0.3 0.4 A1 / A3		Hunter Office		DDODO0	ED OUDDIVIOUN	PRES	SSURE SEWER RETICUL	_ATION	
-	0 09.12.2015	CONSTRUCTION ISSUE	J.N. J.N.	L.G. L.G.	J.N. J.N.	L.G.	1:10 / 1:20		Warners Bay N.S.W. 2282			ED SUBDIVISION 5 2.8 AND 2.9 WATAGAN PARK	PLAN TITLE			
	1 18.05.2016	AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.			Phone: (02) 4978 5100	JOHNSON	•	RIVE, COORANBONG	TYPICAL	. PIPEWORK TRENCHIN	G DETAILS	
	3 17.06.2019	AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED	J.N.	L.G.	J.N.	L.G.		ddwl	Fax: (02) 4978 5199	PROPERTY		V/307/2015	ITTIOAL		O DETAILS	
=	WAC 30.10.2019 WAC 21.11.2019	WORK—AS—CONSTRUCTED LOT NUMBERS UPDATED	A.S.A. D.S.	V. V.					email: hunter@adwjohnson.com.au	GROUP						
7								johnson	ABN 62 129 445 398	\ OI\OOI	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
	DESIGN FILE N:\						ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				ADW Johnson	A.H.D.	239078(2.8 &	2.9) - WAT -	031	WAC

REV. DA	ATE AMENDMENT	DRAWN	CHECK DESIGN V	ERIFY SCALES			CLIENT		PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED WAT
A 20.11	1.2015 PRELIMINARY ISSUE	J.N.	L.G. J.N.	L.G.		Hunter Office			DDO	POSED SUBDIVISION		PRESSURE SEWER RETICULA
0 09.12	2.2015 AMENDED ISSUE — FLOW SYSTEMS 2.2015 CONSTRUCTION ISSUE	J.N.	L.G. J.N.	L.G.		Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282			I .	GES 2.8 AND 2.9 WATAGAN PARK	PLAN TITLE	
1 18.05	5.2016 AMENDED CONSTRUCTION ISSUE — 3.2018 AMENDED CONSTRUCTION ISSUE —	SERVICES RELOCATED J.N. SERVICES RELOCATED J.N.	L.G. J.N. L.G. J.N.	L.G. L.G.		Phone: (02) 4978 5100		JOHNSON	1	R DRIVE, COORANBONG		NOT USED
	6.2019 AMENDED CONSTRUCTION ISSUE - TAI		L.G. J.N.	L.G.	Iddwl	Fax: (02) 4978 5199		PROPERTY	Willotte	DA/307/2015		NOT COLD
WAC 30.10	0.2019 WORK-AS-CONSTRUCTED 1.2019 LOT NUMBERS UPDATED	A.S.A. D.S.	V. V.			email:hunter@adwjohnson.com.au www.adwjohnson.com.au	\	GROUP				
					Johnson			OROOI	SURVEYED	DATUM	PROJECT No.	DISCIPLINE
DESIGN FILE	N: \			ALL DIMENSIONS ARE IN METRES. DO NOT SCAL	.∈ J∪ 1 11 13 ∪ 1 1				ADW Johnson	A.H.D.	239078	3(2.8 & 2.9) - WAT -

WATER AND ULATION

NUMBER 032 WAC



PROPERTY DESCRIPTION

PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK WHISTLER DRIVE, COORANBONG

PROJECT PLAN TITLE

POTABLE WATER MAIN AND TEE

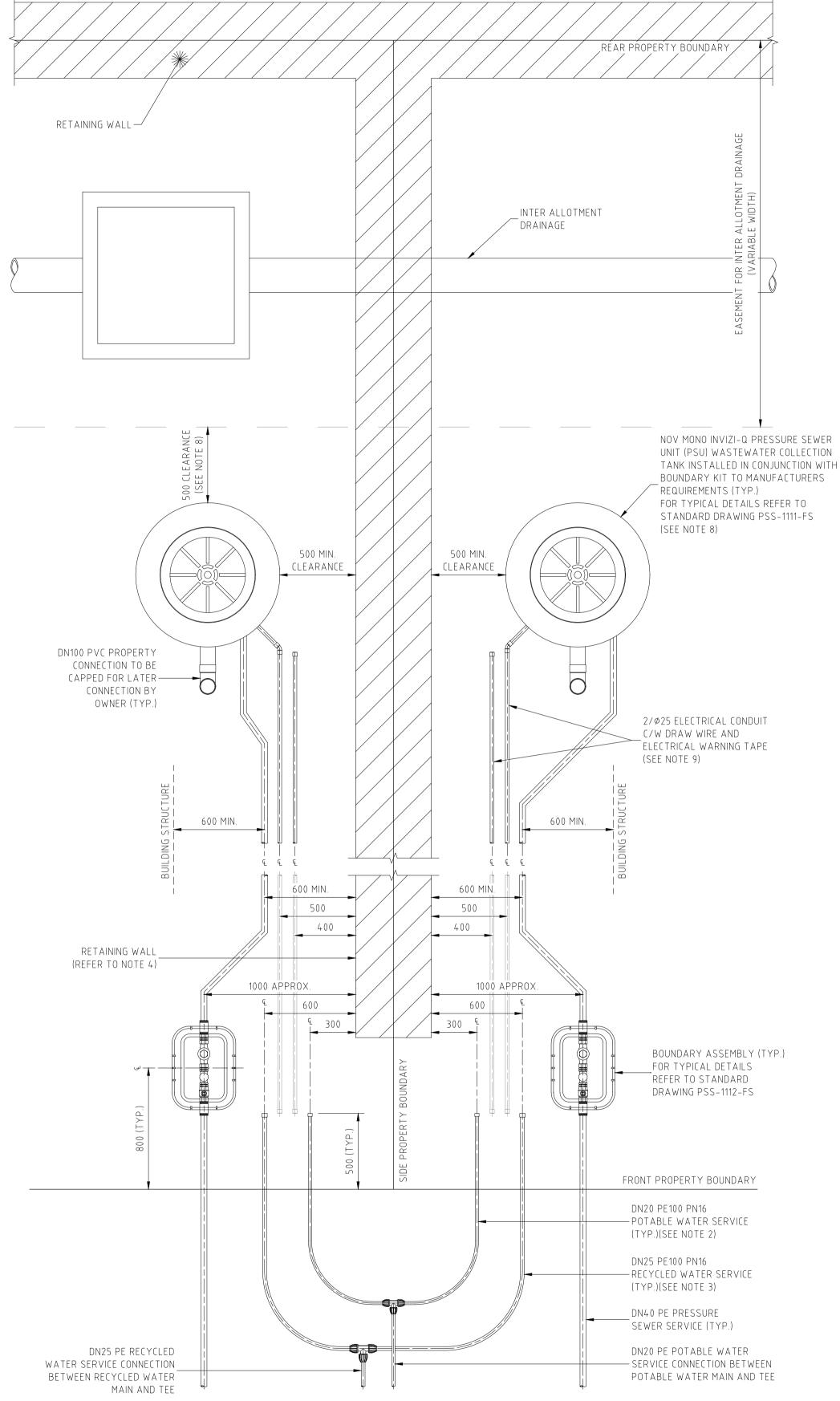
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

TYPICAL SERVICE CONNECTION DETAILS

WORK-AS-CONSTRUCTED

BEFORE YOU DIG

DA/307/2015 SURVEYED DATUM PROJECT No. DISCIPLINE NUMBER 239078(2.8 & 2.9) - WAT -033 WAC ADW Johnson A.H.D.



TYPICAL PROPERTY CONNECTION DETAIL (PRESSURE SEWER UNIT AT REAR) SCALE 1:20

J.N. J.N. J.N. J.N.

J.N.

J.N.

A.S.A. | V.V.

RETAINING WALL DN100 PVC PROPERTY CONNECTION (REFER TO NOTE 4) TO BE CAPPED FOR LATER CONNECTION BY OWNER (TYP.) 500 MIN. 500 MIN. CLEARANCE CLEARANCE NOV MONO INVIZI-Q PRESSURE SEWER UNIT (PSU) WASTEWATER COLLECTION TANK INSTALLED IN CONJUNCTION WITH BOUNDARY KIT TO MANUFACTURERS REQUIREMENTS (TYP.) FOR TYPICAL DETAILS REFER TO 1000 APPROX. 1000 APPROX. STANDARD DRAWING PSS-1111-FS 600 600 (SEE NOTE 8) ⁴ 300 BOUNDARY KIT (TYP.) FOR TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1112-FS FRONT PROPERTY BOUNDARY DN20 PE 100 PN16 -POTABLE WATER SERVICE (TYP.)(SEE NOTE 2) DN25 PE 100 PN16 -RECYCLED WATER SERVICE (TYP.)(SEE NOTE 3) DN40 PE PRESSURE SEWER SERVICE (TYP.) DN25 PE RECYCLED DN20 PE POTABLE WATER WATER SERVICE CONNECTION - SERVICE CONNECTION BETWEEN

TYPICAL PROPERTY CONNECTION DETAIL

NOTES:

BETWEEN RECYCLED WATER

MAIN AND TEE

- 1. PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS (SYDNEY WATER VERSION)(SUPPLEMENT TO WSA 03-2011).
- 2. DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- 3. DN25 PE100 PN16 RECYCLED WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- 4. FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT, SERVICES ARE TO BE OFFSET FROM THE PROPERTY
- 5. WHERE SERVICE CONNECTIONS ARE LOCATED ADJACENT TO TELSTRA PITS/ELECTRICAL PILLARS, A MINIMUM CLEARANCE OF 200mm BETWEEN PITS AND SERVICE PIPEWORK IS TO BE MAINTAINED.
- 6. MINIMUM BENDING RADIUS FOR PE PIPEWORK IS TO BE 20 x PIPE DIAMETER.
- 7. ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
- 8. PRESSURE SEWER UNIT (PSU) IS TO HAVE 500mm CLEARANCE FROM INTER ALLOTMENT DRAINAGE EASEMENT (IF PRESENT), REAR PROPERTY BOUNDARY RETAINING WALL (IF PRESENT) OR REAR PROPERTY BOUNDARY. PRESSURE SEWER UNIT (PSU) IS TO HAVE 2150mm CLEARANCE FROM BUILDING STRUCTURES.
- 9. ϕ 25 ELECTRICAL CONDUIT IS TO EXTEND FROM CONNECTION WITH PRESSURE SEWER UNIT (PSU) TO NOM. 500mm INSIDE FRONT PROPERTY BOUNDARY AND BE CAPPED.
- ELECTRICAL CONDUIT IS TO BE HEAVY DUTY ORANGE. ALL CONDUIT BENDS ARE TO BE LARGE RADIUS SWEEP BENDS.
- 10. FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-FS.
- 11. FOR ALTERNATE TANK AND BOUNDARY CONFIGURATIONS, AND DETAILS FOR TANKS INSTALLED ON PROPERTIES WITH BATTERS AND RETAINING WALLS, REFER TO FLOW SYSTEMS STANDARD DRAWINGS FSI-SK03A-FS AND FSI-SK03B-FS.

•
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2100

DESIGN FILE N:\

AMENDED ISSUE - FLOW SYSTEMS COMMENTS

AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED

AMENDED CONSTRUCTION ISSUE - TANK LEVELS UPDATED

DRAWN CHECK DESIGN VERIFY SCALES 0.1 0.2 0.3 0.4 **A1 / A3** 1:10 / 1:20 0.8 **A1 / A3** 1:20 / 1:40 ALL DIMENSIONS ARE IN METRES. DO NOT SCA

Hunter Office

Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398

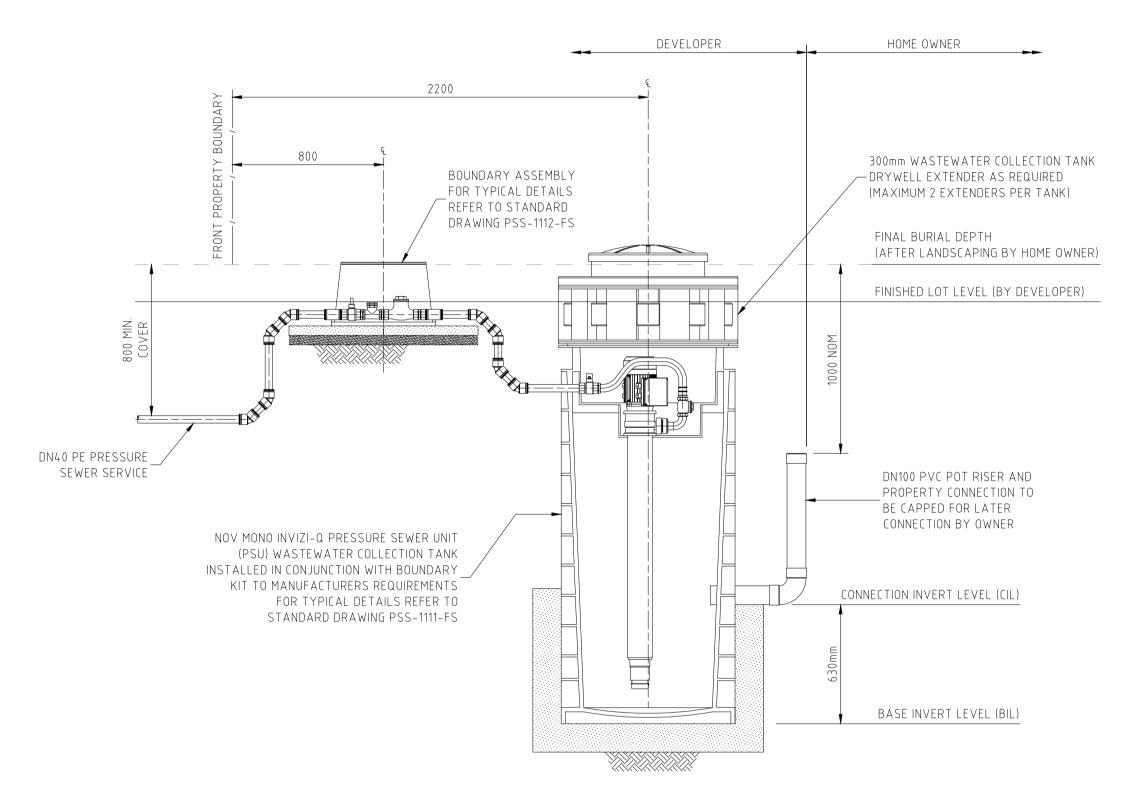
JOHNSON PROPERTY GROUP

CLIENT



			PRESSI	URE SEWER CC	DLLECTION TA	NK LEVEL DET	AILS		
		W	ATAGAN	PARK DEV	ELOPMENT	- STAGE	2.8 & 2.9		
LOT NUMBER	COLLECTION TANK LOCATION	TANK SIZE	PFSL AT TANK LOCATION	QUANTITY OF DRYWELL RISERS REQUIRED	TANK BASE INVERT	CONNECTION INVERT LEVEL	TOP OF COLLECTION TANK	CALCULATED CONNECTION INVERT LEVEL	WAC v's DESIGN INVERT LEVEL COMPARISON
	[FRONT / REAR]	[900L/2200L]			[Design R.L.]	[Design R.L.]	[Work-As-Constructed]	[Work-As-Constructed]	[-LOWER/+HIGHER]
850 (1101)	'		'						
851 (1102)	FRONT BATTER	900L	20.18		18.05	18.68	20.32	18.70	0.02
852 (1103)	FRONT BATTER	900L	20.29		18.16	18.79	20.45	18.83	0.04
853 (1104)	FRONT BATTER	900L	20.57		18.44	19.07	20.75	19.13	0.06
854 (1105)	FRONT BATTER	900L	20.67		18.54	19.17	20.84	19.22	0.05
855 (1106)	FRONT BATTER	900L	20.94		18.81	19.44	21.08	19.46	0.02
856 (1107)	FRONT BATTER	900L	21.05		18.92	19.55	21.21	19.59	0.04
857 (1108)	FRONT BATTER	900L	21.25		19.12	19.75	21.45	19.83	0.08
858 (1109)	FRONT BATTER	900L	21.35		19.22	19.85	21.50	19.88	0.03
859 (1116)	REAR	900L	23.90		21.77	22.40	24.01	22.39	-0.01
860 (1117)	REAR	900L	23.79		21.66	22.29	24.02	22.40	0.11
861 (1118)	REAR	900L	23.59		21.46	22.09	23.80	22.18	0.09
862 (1119)	REAR	900L	23.30		21.17	21.80	23.54	21.92	0.12
863 (1120)	REAR	900L	22.89		20.76	21.39	23.15	21.53	0.14
864 (1121)	REAR	900L	22.70		20.57	21.20	22.98	21.36	0.16
865 (1122)	REAR	900L	22.30		20.17	20.80	22.57	20.95	0.15
866 (1123)	REAR	900L	21.80		19.67	20.30	22.12	20.50	0.20
867 (1124)	EDONIT DATTED	0001	22.45		24.02	24.65	22.42	24.00	0.45
868 (1125)	FRONT BATTER	900L	23.15		21.02	21.65	23.42	21.80	0.15
869 (1126)	FRONT FLAT	900L	24.06		21.93	22.56	24.41	22.79	0.23
870 (1127)	FRONT BATTER	900L	24.32		22.19	22.82	24.68	23.06	0.24
871 (1128)	FRONT BATTER	900L	24.87		22.74 22.76	23.37	25.18	23.56	0.19
872 (1129) 873 (1130)	FRONT BATTER FRONT BATTER	900L 900L	24.89 25.40		23.27	23.39 23.90	25.19 25.58	23.57 23.96	0.18
874 (1131)	FRONT BATTER	900L	25.49		23.36	23.99	25.76	24.14	0.15
955 (1110)	FRONT BATTER	900L	21.62		19.49	20.12	21.82	20.20	0.08
956 (1111)	FRONT BATTER	900L	21.72		19.59	20.22	21.87	20.25	0.03
957 (1112)	FRONT BATTER	900L	21.93		19.80	20.43	22.09	20.47	0.04
958 (1113)	FRONT BATTER	900L	23.60		21.47	22.10	23.85	22.23	0.13
959 (1114)	FRONT BATTER	900L	24.53		22.40	23.03	24.87	23.25	0.22
960 (1115)	REAR	900L	24.09		21.96	22.59	24.23	22.61	0.02
961 (1132)	FRONT BATTER	900L	25.66		23.53	24.16	25.92	24.30	0.14
962 (1133)	FRONT BATTER	900L	25.67		23.54	24.17	25.94	24.32	0.15
963 (1134)	FRONT FLAT	900L	27.26		25.13	25.76	27.46	25.84	0.08
964 (1135)	FRONT FLAT	900L	27.81	1	25.38	26.01	28.28	26.36	0.35
965 (1136)	FRONT BATTER	900L	27.31	2	24.58	25.21	27.63	25.41	0.20
966 (1137)	FRONT FLAT	900L	26.38	1	23.95	24.58	26.68	24.76	0.18
967 (1138)	FRONT BATTER	900L	25.86	2	23.13	23.76	26.09	23.87	0.11
968 (1139)	FRONT FLAT	900L	24.40	1	21.97	22.60	24.68	22.76	0.16
969 (1140)	FRONT FLAT	900L	24.16	2	21.43	22.06	24.39	22.17	0.11
970 (1141)	FRONT BATTER	900L	22.04		19.91	20.54	22.33	20.71	0.17
971 (1142)	FRONT BATTER	900L	22.12		19.99	20.62	22.38	20.76	0.14
972 (1143)	FRONT BATTER	900L	21.76		19.63	20.26	21.96	20.34	0.08
973 (1144)	FRONT BATTER	900L	21.53		19.40	20.03	21.86	20.24	0.21
974 (1145)	FRONT BATTER	900L	22.56		20.43	21.06	22.85	21.23	0.17
975 (1146)	FRONT BATTER	900L	22.84		20.71	21.34	23.18	21.56	0.22
976 (1147)	FRONT BATTER	900L	23.84		21.72	22.35	24.16	22.54	0.19
977 (1148)	FRONT BATTER	900L	24.34		22.21	22.84	24.65	23.03	0.19
978 (1149)	FRONT BATTER	900L	25.36		23.23	23.86	25.59	23.97	0.11
979 (1150)	FRONT BATTER	900L	25.83		23.70	24.33	26.16	24.54	0.21

* COLLECTION TANK LEVEL PROVIDED TO G.P.S. ACCURACY ONLY. THE BUILDER IS REQUIRED TO CONFIRM DRAINAGE CONSTRAINTS PRIOR TO MAKING CONNECTION TO TANK.



PRESSURE SEWER SERVICE CONNECTION TYPICAL SECTIONAL ELEVATION

(SHOWN AS FRONT OF LOT SERVICE CONNECTION WITH 1 DRYWELL EXTENDER)

- NOTE:

 1. WASTEWATER COLLECTION TANK INVERT LEVEL(IL)=FINISHED SURFACE LEVEL(FSL)

 MINUS 2150 FOR 0 DRYWELL EXTENDERS

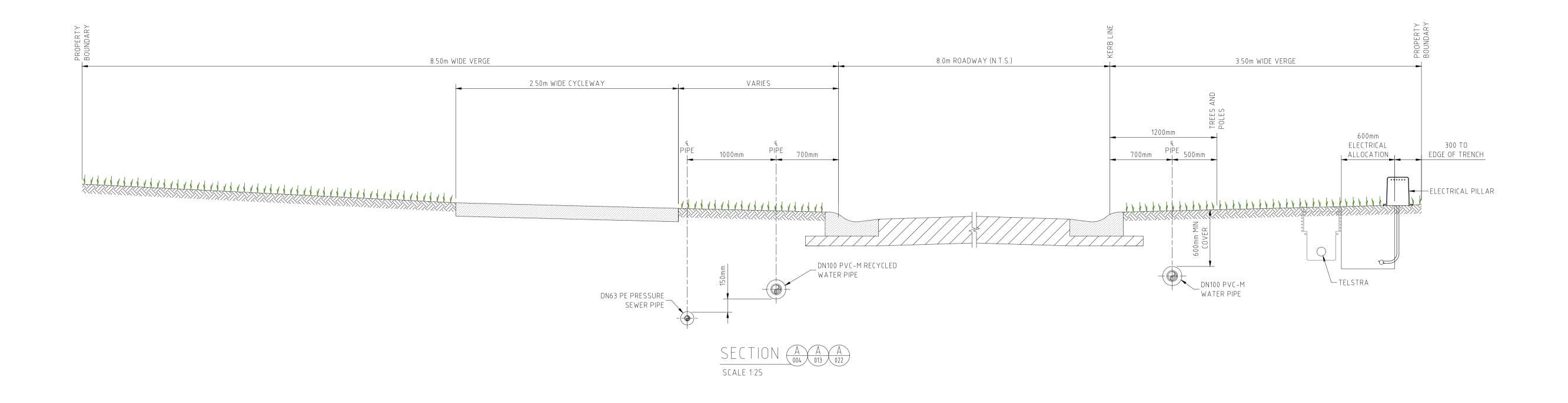
 MINUS 2450 FOR 1 DRYWELL EXTENDERS

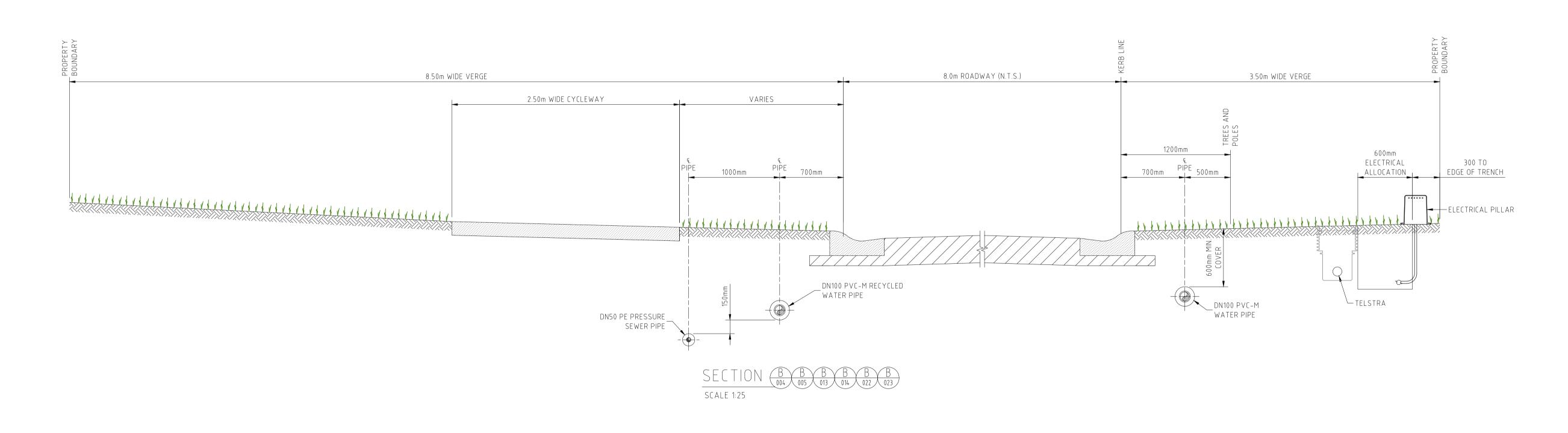
 MINUS 2750 FOR 2 DRYWELL EXTENDERS

 FOR FURTHER DETAILS REFER TO STANDARD DRAWING PSS-1113-FS.

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIG	VERIFY	SCALES			CLIENT	PROPERTY DESCRIPTION	PROJECT POTABLE \	VATER, RECYCLED	WATER AND	
A	20.11.2015	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.			Hunter Office		DRODOSED SURDIVISION	PRESS	URE SEWER RETIC	JLATION	
0	07.12.2015	CONSTRUCTION ISSUE	J.N. J.N.	L.G. L.G.	J.N. J.N.	L.G.			Warners Bay N.S.W. 2282		PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PAR	PLAN TITLE			
1 2	18.05.2016 29.03.2018	AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED	J.N. J.N.	L.G. L.G.	J.N. J.N.	L.G. L.G.			Phone: (02) 4978 5100	JOHNSON	WHISTLER DRIVE, COORANBONG		COLLECTION TANK	LEVEL DETAI	ILS
3	17.06.2019	AMENDED CONSTRUCTION ISSUE - TANK LEVELS UPDATED WORK-AS-CONSTRUCTED	J.N.	L.G.	J.N.	L.G.			Fax: (02) 4978 5199	PROPERTY	DA/307/2015				
WAC	21.11.2019	LOT NUMBERS UPDATED	D.S.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					www.adwjohnson.com.au	GROUP		DDO IECT No	DICCIDI INF	NUMBER	
DESIGN	FILE N: \						ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	nson	ABN 62 129 445 398	(CITCOII	SURVEYED DATUM ADW Johnson A.H.D.	PROJECT No. 239078(2.8 & 2	.9) - WAT -	NUMBER 034	WAC





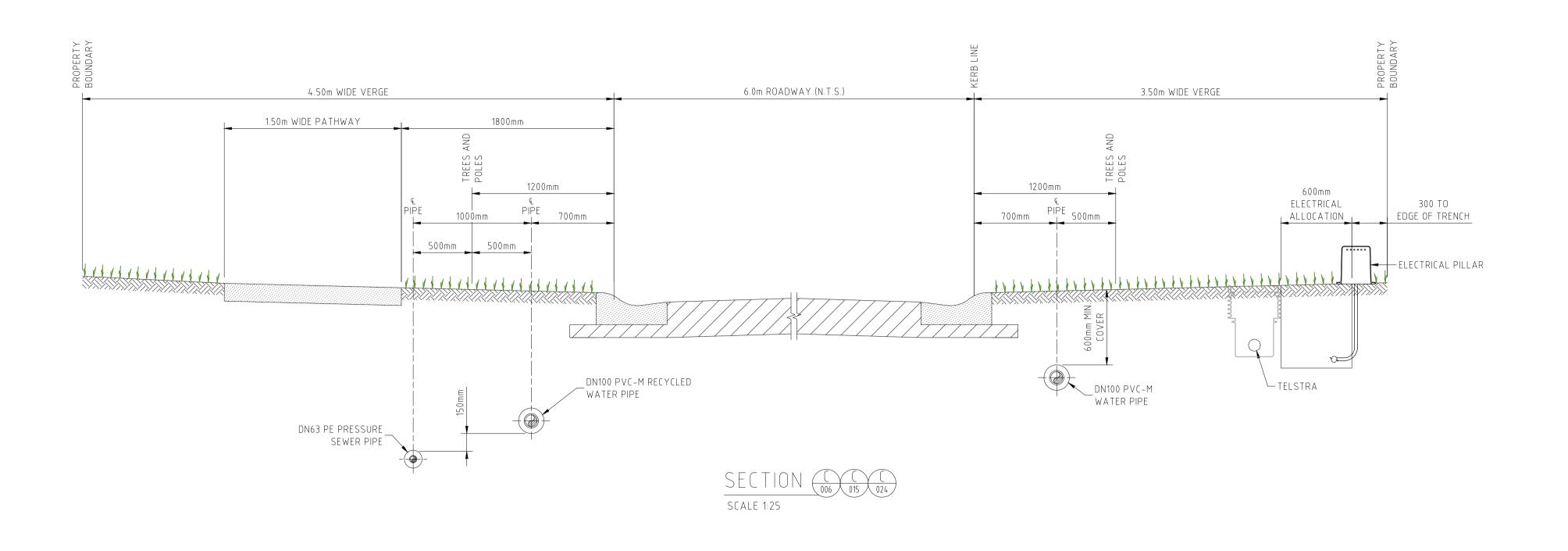


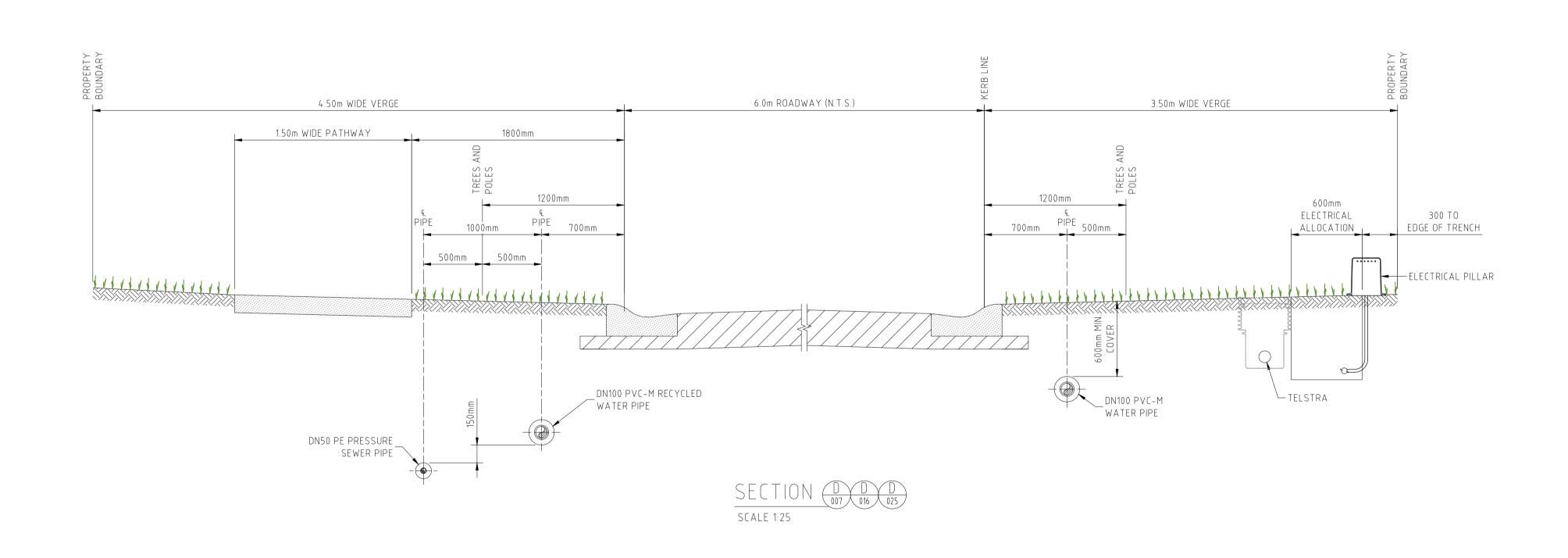
NOTE:

 FOR MINIMUM VERTICAL AND HORIZONTAL CLEARANCES REFER TO WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1. (SYDNEY WATER EDITION 2012).

REV. DATE AMENDMENT DRAWN CHECK DESIGN	ERIFY SCALES SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT POTABLE WATER, RECYCLED WATER AND
A 20.11.2015 PRELIMINARY ISSUE B 07.12.2015 AMENDED ISSUE — FLOW SYSTEMS COMMENTS J.N. L.G. J.N. J.N. L.G. J.N.	L.G. 0 0.5 1 A1 / A3 L.G. 1:25 / 1:50	Hunter Office Unit 7/335 Hillsborough Rd	PROPOSED SUBDIVISION	PRESSURE SEWER RETICULATION
0 09.12.2015 CONSTRUCTION ISSUE J.N. L.G. J.N. 1 18.05.2016 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED J.N. L.G. J.N.	L.G. L.G.	Warners Bay N.S.W. 2282	PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK	PLAN TITLE
- 2 29.03.2018 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED J.N. L.G. J.N. 3 17.06.2019 AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED J.N. L.G. J.N.	L.G. L.G.	Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwichnson.com.au	WHISTLER DRIVE, COORANBONG DA/307/2015	ROAD CROSS SECTIONS - SHEET 1
_ WAC 30.10.2019 WORK-AS-CONSTRUCTED A.S.A. V.V.		email: hunter@adwjohnson.com.au www.adwjohnson.com.au		DECOLOT N. DIOCIDI INE. NILIMBER DEV
DESIGN FILE N:\	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE JOHNSO	ABN 62 129 445 398	SURVEYED DATUM ADW Johnson A.H.D.	PROJECT No. DISCIPLINE NUMBER REV. 239078(2.8 & 2.9) - WAT - 035 WAC





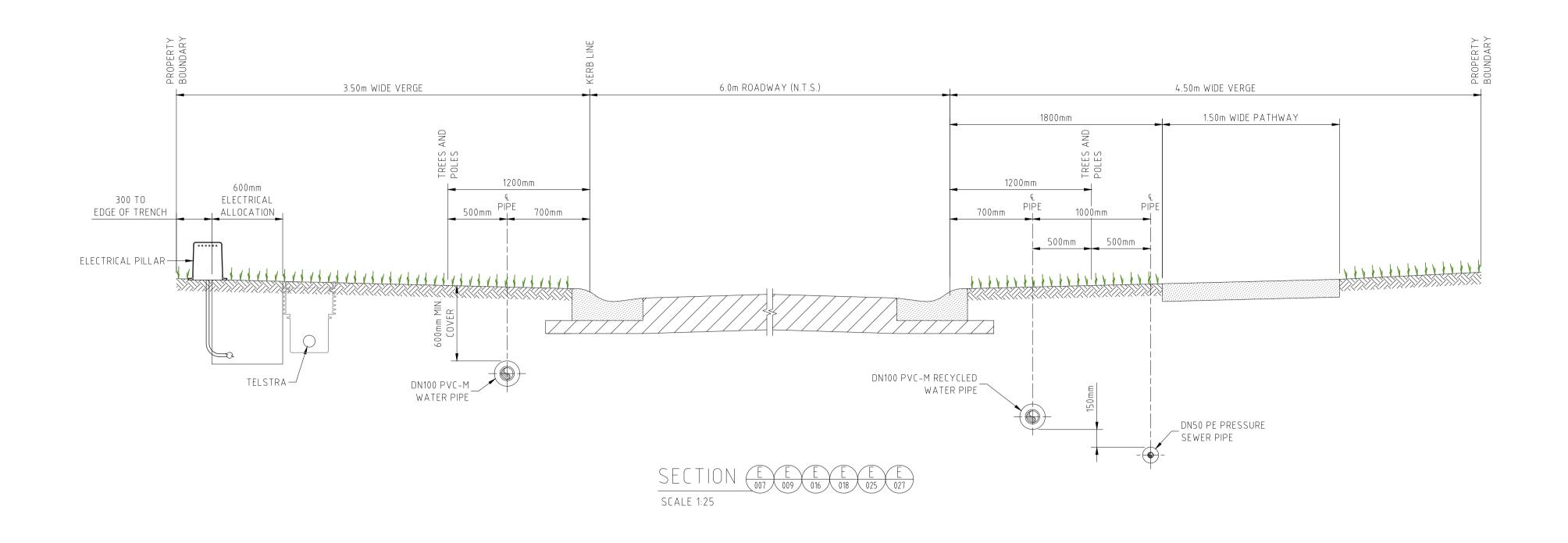


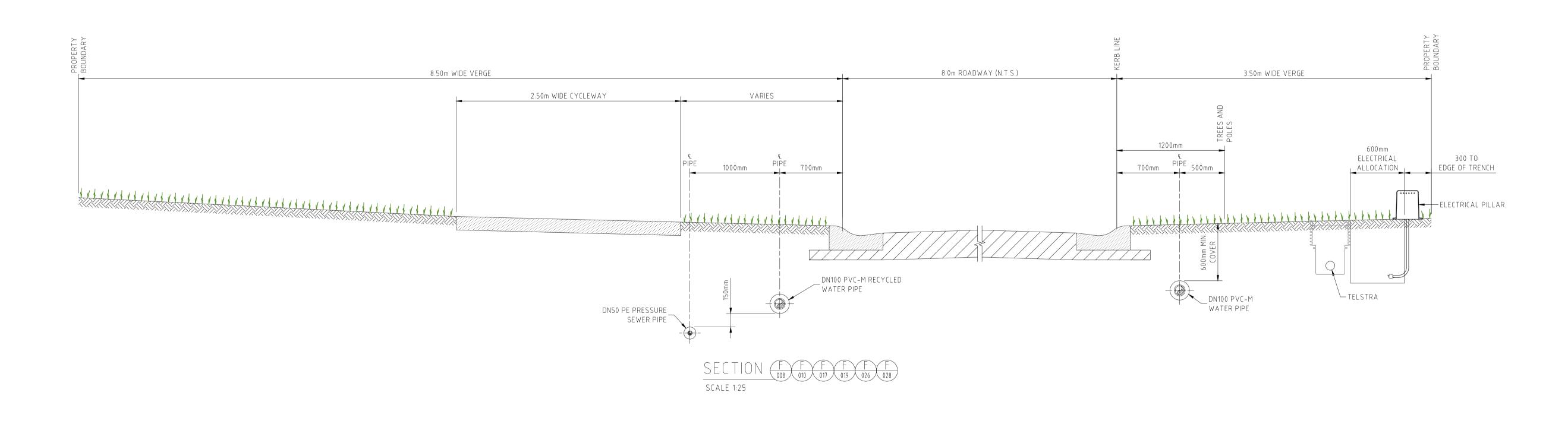
NOTE:

 FOR MINIMUM VERTICAL AND HORIZONTAL CLEARANCES REFER TO WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1. (SYDNEY WATER EDITION 2012).

REV	20.11.20	AMENDMENT 5 PRELIMINARY ISSUE AMENDMENT	DRAWN CHECK DESIGN VERIFY SCALES J.N. L.G. J.N. L.G. 0 0.5 1 A1 / A3	П	Hunter Office	PROPERTY DESCRIPTION	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
- B O 1 1 - 2 3 WAG	07.12.20 09.12.20 18.05.20 29.03.20 17.06.20	AMENDED ISSUE — FLOW SYSTEMS COMMENTS CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED WORK—AS—CONSTRUCTED	J.N. L.G. J.N. J.N. J.N. J.N. J.N. J.N. J.N. J	adw	Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au	PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PLAN TITLE ROAD CROSS SECTIONS - SHEET 2
DESI	21.11.20 GN FILE N:	9 LOT NOMBERS OFDATED	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	johnsoi	www.adwjohnson.com.au ABN 62 129 445 398	SURVEYED DATUM ADW Johnson A.H.D.	PROJECT No. DISCIPLINE NUMBER REV. 239078(2.8 & 2.9) - WAT - 036 WAC







NOTE:

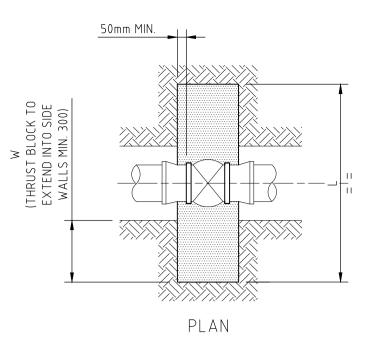
 FOR MINIMUM VERTICAL AND HORIZONTAL CLEARANCES REFER TO WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1. (SYDNEY WATER EDITION 2012).

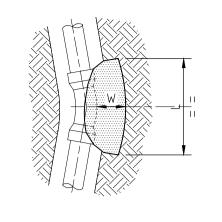
REV. DATE A 20.11.2015	AMENDMENT PRELIMINARY ISSUE	DRAWN CHECK DESIGN VERIFY J.N. L.G. J.N. L.G.	SCALES 0 0.5 1 A1 / A3		Hunter Office	LIENT	PROPERTY DESCRIPTION	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	
B 07.12.2015 0 09.12.2015 1 18.05.2016 - 2 29.03.2018 3 17.06.2019 WAC 30.10.2019	AMENDED ISSUE — FLOW SYSTEMS COMMENTS CONSTRUCTION ISSUE AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED WORK—AS—CONSTRUCTED	J.N. L.G. J.N. J.N. L.G. J.N. J.N. J.G. J.N. J.N. J.G. J.N. J.N	1:25 / 1:50	adw	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	JOHNSON PROPERTY	PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PLAN TITLE ROAD CROSS SECTIONS - SHEET 3	
WAC 21.11.2019 DESIGN FILE N: \	LOT NUMBERS UPDATED	D.S.	ALL DIMENSIONS ARE IN METRES. DO NOT SO	johnsor	www.adwjohnson.com.au ABN 62 129 445 398	GROUP	SURVEYED DATUM ADW Johnson A.H.D.		REV.



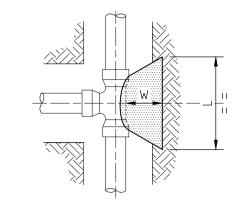
DRAWN CHECK DESIGN VERIFY SCALES POTABLE WATER, RECYCLED WATER AND CLIENT DATE AMENDMENT PROPERTY DESCRIPTION PROJECT **Hunter Office** 20.11.2015 PRELIMINARY ISSUE
07.12.2015 AMENDED ISSUE — FLOW SYSTEMS COMMENTS
09.12.2015 CONSTRUCTION ISSUE
18.05.2016 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED
29.03.2018 AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED
17.06.2019 AMENDED CONSTRUCTION ISSUE — TANK LEVELS UPDATED J.N. L.G.
A.S.A. V.V.
D.S. J. N. J. N. J. N. J. N. J. N. PRESSURE SEWER RETICULATION Unit 7/335 Hillsborough Rd PROPOSED SUBDIVISION PLAN TITLE Warners Bay N.S.W. 2282 PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK JOHNSON PROPERTY GROUP Phone: (02) 4978 5100 WHISTLER DRIVE, COORANBONG NOT USED Fax: (02) 4978 5199 DA/307/2015 WAC 30.10.2019 WORK-AS-CONSTRUCTED WAC 21.11.2019 LOT NUMBERS UPDATED email: hunter@adwjohnson.com.au www.adwjohnson.com.au SURVEYED PROJECT No. DISCIPLINE DATUM NUMBER **Johnson** ABN 62 129 445 398 WAC 239078(2.8 & 2.9) - WAT -038 ADW Johnson A.H.D. ALL DIMENSIONS ARE IN METRES. DO NOT SCAL DESIGN FILE N: \



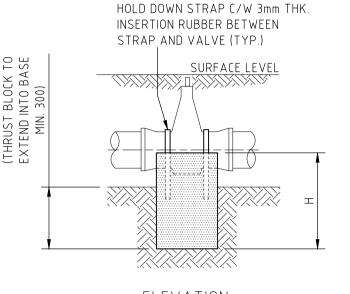


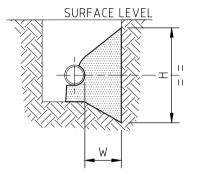


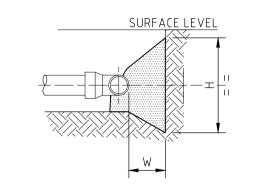
PLAN



PLAN







HOLD DOWN STRAP

MATERIAL: 316 STAINLESS STEEL

N.T.S.

DIAMETER TO SUIT PIPE

— 50 x 6 FL.

STOP VALVE N.T.S. ELEVATION

HORIZONTAL BEND

N.T.S.

TEE, FLUSHING
HYDRANT AND CAP
N.T.S.

ТҮРЕ	FITTING	Soil	Design	Thrust	TA (m2)	Length	Height	Width
		AHBP (Kpa)	STP (Kpa)			(L)	(H)	(W)
1	DN250 x 90° BEND	100	1000	91.00	0.91	1.00	0.91	0.40
2	DN250 x 45° BEND	100	1000	51.00	0.51	0.75	0.68	0.40
3	DN250 x 22.5° BEND	100	1000	26.00	0.26	0.55	0.47	0.40
4	DN250 x 11.25° BEND	100	1000	13.00	0.13	0.40	0.33	0.40
5	DN250 FLUSHING HYDRANT	100	1000	65.00	0.65	0.85	0.76	0.40
6	DN200 x DN200 EQUAL TEE	100	1000	43.00	0.43	0.70	0.61	0.30
7	DN200 x DN100 TAPER	100	1000	31.00	0.31	0.60	0.52	0.30
8	DN200 x 90° BEND	100	1000	60.00	0.60	0.80	0.75	0.30
9	DN200 x 45° BEND	100	1000	33.00	0.33	0.60	0.55	0.30
10	DN200 x 22.5° BEND	100	1000	17.00	0.17	0.45	0.38	0.30
11	DN200 x 11.25° BEND	100	1000	8.10	0.08	0.30	0.30	0.30
12	DN200 STOP VALVE	100	1000	43.00	0.43	1.20	0.52	0.30
13	DN200 FLUSHING HYDRANT	100	1000	53.00	0.53	0.75	0.71	0.40
14	DN100 x DN100 EQUAL TEE	100	1000	12.00	0.12	0.40	0.30	0.30
15	DN100 x 90° BEND	100	1000	17.00	0.17	0.45	0.38	0.30
16	DN100 x 45° BEND	100	1000	8.80	0.09	0.30	0.30	0.30
17	DN100 x 22.5° BEND	100	1000	4.50	0.05	0.30	0.30	0.30
18	DN100 x 11.25° BEND	100	1000	2.20	0.02	0.30	0.30	0.30
19	DN100 x 6° BEND	100	1000	2.20	0.02	0.30	0.30	0.30
20	DN100 STOP VALVE	100	1000	12.00	0.12	1.05	0.44	0.30
21	DN100 FLUSHING HYDRANT	100	1000	12.00	0.12	0.40	0.30	0.40

THRUST BLOCK NOTES:

- 1. CONCRETE THRUST BLOCKS ARE TO BE PROVIDED FOR ALL FITTINGS IN ACCORDANCE WITH TABLE.
- 2. THRUST BLOCK DIMENSIONS ARE BASED ON THE MINIMUM ALLOWABLE HORIZONTAL BEARING PRESSURES OF THE SOIL AS SHOWN. IF GROUND CONDITIONS ENCOUNTERED INDICATE THAT THESE BEARING PRESSURES MAY NOT BE ACHIEVED, THRUST BLOCK DESIGN IS TO BE REVISED.
- 3. THRUST BLOCKS ARE TO BE CONSTRUCTED SUCH THAT THEY TRANSFER THE THRUST ONTO UNDISTURBED GROUND. THRUST BLOCKS ARE NOT TO INTERFERE WITH OTHER SERVICES.
- 4. FINISH THRUST BLOCKS APPROXIMATELY 100mm ABOVE THE TOP OF THE FITTING OR BEARING PAD AND EXTEND TO THE FLOOR OF THE TRENCH OR DEEPER IF NECESSARY TO ACHIEVE THE REQUIRED THRUST AREA (N). MAXIMUM ENCASEMENT TO BE 180°.
- 5. CONCRETE FOR THE THRUST BLOCKS TO BE GRADE S25 USING CEMENT TYPE "SR" TO AS3972. CONCRETE TO BE MECHANICALLY VIBRATED.
- 6. CONCRETE THRUST BLOCKS ARE TO BE CURED FOR A MINIMUM OF 7 DAYS BEFORE BEING SUBJECTED TO ANY THRUST LOAD.
- 7. REFER TO WAT-1205-V FOR GENERAL FITTING THRUST BLOCK ARRANGEMENTS.
- 8. REFER TO WAT-1207-V FOR GENERAL VALVE AND VERTICAL BEND THRUST BLOCK ARRANGEMENTS.

WORK-AS-CONSTRUCTED

DRAWN CHECK DESIGN VERIFY SCALES POTABLE WATER, RECYCLED WATER AND DATE **AMENDMENT** CLIENT PROPERTY DESCRIPTION **Hunter Office** PRELIMINARY ISSUE
AMENDED ISSUE — FLOW SYSTEMS COMMENTS PRESSURE SEWER RETICULATION Unit 7/335 Hillsborough Rd PROPOSED SUBDIVISION J.N. J.N. J.N. J.N. L.G. L.G. L.G. L.G. 09.12.2015

O9.12.2015

CONSTRUCTION ISSUE

18.05.2016

AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED

AMENDED CONSTRUCTION ISSUE — SERVICES RELOCATED

17.06.2019

AMENDED ISSUE — TANK LEVELS UPDATED PLAN TITLE J.N. L.G. J.N. L.G. J.N. L.G. J.N. L.G. A.S.A. V.V. Warners Bay N.S.W. 2282 PRECINCT 2, STAGES 2.8 AND 2.9 WATAGAN PARK Phone: (02) 4978 5100 JOHNSON WHISTLER DRIVE, COORANBONG THRUST BLOCK DETAILS Fax: (02) 4978 5199 PROPERTY GROUP DA/307/2015 email: hunter@adwjohnson.com.au WORK-AS-CONSTRUCTED 30.10.2019 WAC 21.11.2019 LOT NUMBERS UPDATED www.adwjohnson.com.au SURVEYED DATUM PROJECT No. DISCIPLINE NUMBER ABN 62 129 445 398 WAC 239078(2.8 & 2.9) - WAT -039 ADW Johnson A.H.D. ALL DIMENSIONS ARE IN METRES. DO NOT SCA ESIGN FILE N:\