AS CONSTRUCTED

Plotted By: scotth Plot Date: 20/01/21 - 09:22 Cad File: \\jserver10\Adw-Data\239078\Draw\water & sewer design\precinct 2 water and sewer\stages 2.12 & 2.13\239078(2.12 & 2.13) - issue 4\239078(2.12 & 2.13)-WAT-001 to 003(4).dwg

GENERAL NOTES:

- 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.
- 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.
- 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.
- DURING CONSTRUCTION ALL OPEN ENDS OF PIPES SHALL BE CAPPED TO PREVENT ENTRY OF FOREIGN MATTER.
- ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO COORANBONG WATER REQUIREMENTS.
- MAKE SMOOTH TRANSITION TO EXISTING INFRASTRUCTURE (ROAD PAVEMENT, KERBS, FOOTPATHS, ETC.) TO LAKE MACQUARIE CITY COUNCIL AND SUPERINTENDENT'S SATISFACTION.
- SUITABLE PROTECTION TO EXISTING INFRASTRUCTURE (ROAD PAVEMENT, KERBS, FOOTPATHS, ETC.) IS TO BE PROVIDED DURING DURATION OF CONSTRUCTION.
- 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.
- 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.
- 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.
- 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.
- ANY WORKS NOT COVERED BY THE SPECIFICATION OR THIS DRAWING SET ARE TO BE REFERRED TO THE SUPERINTENDENT.
- 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.
- ALL PIPE BEDDING MATERIAL TO COMPLY WITH WSAA PRODUCT SPECIFICATION WSA-PS350 AND WSA PS351.

POTABLE WATER AND RECYCLED WATER NOTES:

- 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.
- 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.
- CLEARANCES SHOWN TO OTHER PIPES HAVE BEEN CALCULATED FROM THE COLLAR.
- ALL PRODUCTS AND MATERIALS TO BE SELECTED FROM THE COORANBONG WATER APPROVED PRODUCTS AND MATERIALS REGISTER.
- 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.
- HYDRANTS MUST NOT BE POSITIONED IN DRIVEWAYS OR TAPPING POINTS. HYDRANTS NOMINALLY AT LEAST 5m FROM EACH BOUNDARY OR ON BOUNDARIES.
- 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.
- 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.
- 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.
- ALL POTABLE WATERMAINS SHALL BE PLAIN BLUE PVC-M (PN16).
- ALL RECYCLED WATERMAINS SHALL BE LILAC PVC-M (PN16).
- 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.
- FOR THRUST BLOCK DETAILS REFER TO DRG-027.
- 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.
- 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.
- 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.
- 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.
- MAXIMUM PIPE COVER SHALL BE 1500mm UNLESS SPECIFIED ON THE DESIGN DRAWINGS OR APPROVAL IS OBTAINED FROM THE COORANBONG WATER REPRESENTATIVE.
- ALL MAINS LAID IN TRAFFICABLE CARRIAGEWAYS SHALL BE BACKFILLED WITH 16:1 STABILISED SAND CEMENT TO SUBGRADE LEVEL ONLY.
- 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.
- POTABLE AND RECYCLED WATERMAIN FITTINGS ARE TO BE STAGGERED.
- MAXIMUM JOINT DEFLECTIONS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- EACH PROPERTY SERVICE CONNECTION IS TO BE FLUSHED AND LOCKED FOLLOWING PRESSURE TESTING.
- SCOUR VALVES TO BE CONNECTED TO LOCAL STORMWATER SYSTEM.
- POTABLE WATER IS TO BE UTILISED FOR FIRE FIGHTING PURPOSES.
- HYDRANT SURFACE BOXES TO BE YELLOW (POTABLE WATER) AND LILAC (RECYCLED WATER).

PRESSURE SEWER NOTES:

- 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.
- 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.
- PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007.
- ALL POLYETHYLENE MAINS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- ALL MAINS LAID IN TRAFFICABLE CARRIAGEWAYS SHALL BE BACKFILLED WITH 16:1 STABILISED SAND CEMENT TO SUBGRADE LEVEL ONLY.
- ~~ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS~~ (FABRICATED BENDS SHALL NOT BE USED).
- ALL HOUSE SERVICE LATERALS SHALL BE DN40 PE 100 PN16.
- DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
- ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (ROADWAYS, PATHS) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- ALL PRESSURE SEWER VALVES SHALL BE RESILIENT SEATED SLUICE GATE VALVES (CLOCKWISE CLOSING) AND SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207.
- 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.

CONDUITS SHALL BE LAID IN COMMON TRENCH WITH PRESSURE SEWER PIPEWORK.  
(REFER TO TYPICAL CONNECTION DETAIL, DRG-030).
- ~~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.
- 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.
- 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).
- 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).
- ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.

ADW Johnson Pty Ltd  
on behalf of

Cooranbong + Water

Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 <div>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</div>	CLIENT	 <div>JOHNSON PROPERTY GROUP</div>	PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION				
											PLAN TITLE							
											GENERAL NOTES							
DESIGN FILE N:\								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED		DATUM		PROJECT No.	DISCIPLINE	NUMBER	REV.	
										ADW Johnson		A.H.D.		239078(2.12 & 2.13) - WAT -		002		4

239078(2.12 & 2.13)-WAT-001 to 003(4)

100mm AT FULL SIZE



ADW Johnson Pty Ltd  
on behalf of  
**Coorانبong + Water**  
Date Approved: 30/09/2019

**AS CONSTRUCTED**

PLAN  
SCALE 1:1500




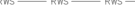












REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 <div>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</div>	CLIENT  <div>JOHNSON PROPERTY GROUP</div>	PROPERTY DESCRIPTION  PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015		PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION										
												PLAN TITLE										
												OVERALL SITE PLAN										
DESIGN FILE N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE					PROJECT No.		DISCIPLINE		NUMBER		REV.				
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.																
B	15.06.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.																
C	09.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N.	L.G.																
D	18.09.2019	AMENDED ISSUE - ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.																
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.																
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.																
2	24.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.																
3	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.																
4	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.																



SPECK LANE

EXTEND DN100 PIPEWORK 2.0m  
BEYOND LIMIT OF SUBDIVISION  
WORKS AND INSTALL FLUSHING  
HYDRANT (TB TYPE 21)

# PLAN

- | LEGEND   |  |
|--|--|
|                             | PVC-M POTABLE WATER RETICULATION   |
|                             | POTABLE WATER PROPERTY SERVICE   |
|                             | PVC-M RECYCLED WATER RETICULATION  |
|                             | RECYCLED WATER PROPERTY SERVICE  |
|                             | PE PRESSURE SEWER RETICULATION   |
|                             | TELSTRA  |
|                             | UNDERGROUND POWER  |
|                             | STORMWATER PIPEWORK  |
| SV.                         | STOP VALVE   |
| HYD.                        | HYDRANT  |
| FL HYD.                     | FLUSHING HYDRANT   |
|                             | PROPERTY SERVICE CONNECTION  |
|                             | EXISTING PROPERTY SERVICE CONNECTION   |
|                             | LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE<br>(300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H |
|                             | LAY PRESSURE SEWER MAIN OVER STORMWATER PIPE<br>(300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H  |
|  LIMIT OF SUBDIVISION WORKS |  |

- 
**POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 31 CONNECTIONS  
 • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V  
     - 2 x SHORT SIDE  
     - 1 x LONG SIDE  
 • SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V  
     - 8 x SHORT SIDE  
     - 6 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	472

- NOTES:
1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 017.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 026.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

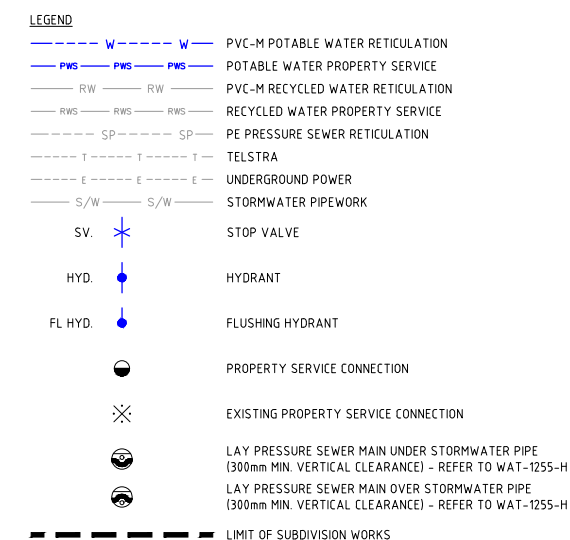
ADW Johnson Pty Ltd  
on behalf of

Cooranbong  Water

Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 <div>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</div>	CLIENT	PROPERTY DESCRIPTION	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.				<div>PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015</div>	PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 1
B	15.06.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.						
C	09.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N.	L.G.						
D	18.09.2019	AMENDED ISSUE - ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.						
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.						
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.						
2	24.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.						
3	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.						
4	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.						
DESIGN FILE N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE					




**POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 31 CONNECTIONS  
 • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V  
     - 2 x SHORT SIDE  
     - 1 x LONG SIDE  
 • SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V  
     - 8 x SHORT SIDE  
     - 6 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	472

NOTES:

1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 017.
2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 026.
3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

ADW Johnson Pty Ltd  
on behalf of

Cooranbong + Water

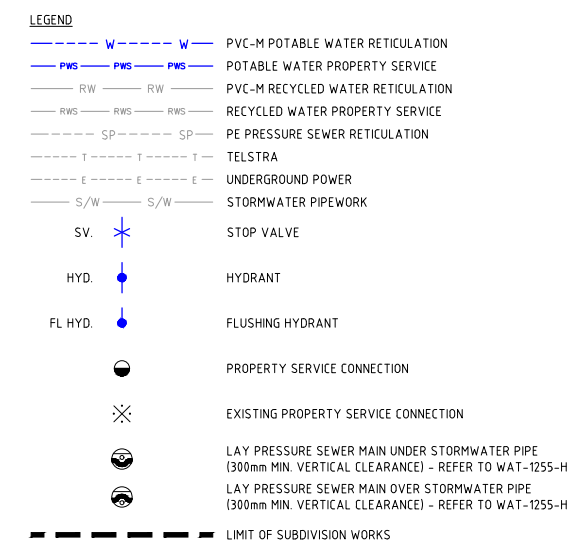
Date Approved: 30/09/2019

AS CONSTRUCTED

REV.		DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 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	CLIENT		PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
								PLAN TITLE				POTABLE WATER DETAIL PLAN - SHEET 2					
A	15.01.2016		PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	 A1 / A3 1:250 / 1:500				PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015		PROJECT No.	DISCIPLINE	NUMBER	REV.
B	15.06.2016		AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.					ADW Johnson	A.H.D.	239078(2.12 & 2.13) - WAT - 005		4	
C	09.09.2019		AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N.	L.G.										
D	18.09.2019		AMENDED ISSUE - ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.										
0	30.09.2019		CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.										
1	04.08.2020		AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.										
2	24.08.2020		AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.										
3	27.08.2020		AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.										
4	14.01.2021		LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.										
DESIGN FILE N:\								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE									

Plotted By: scotth Plot Date: 20/01/21 - 09:24 Cad File: \\jserver10\Adw-Data\239078\Dwg\water & sewer design\precinct 2 water and sewer\stages 2.12 & 2.13\239078(2.12 & 2.13) - issue 4\239078(2.12 & 2.13)-WAT-004 to 011(4).dwg





● POTABLE WATER PROPERTY SERVICE CONNECTIONS  
TOTAL 31 CONNECTIONS  
• SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V  
    - 2 x SHORT SIDE  
    - 1 x LONG SIDE  
• SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V  
    - 8 x SHORT SIDE  
    - 6 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	472

NOTES:

1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 017.
2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 026.
3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

ADW Johnson Pty Ltd  
on behalf of

Cooranbong + Water

Date Approved: 30/09/2019

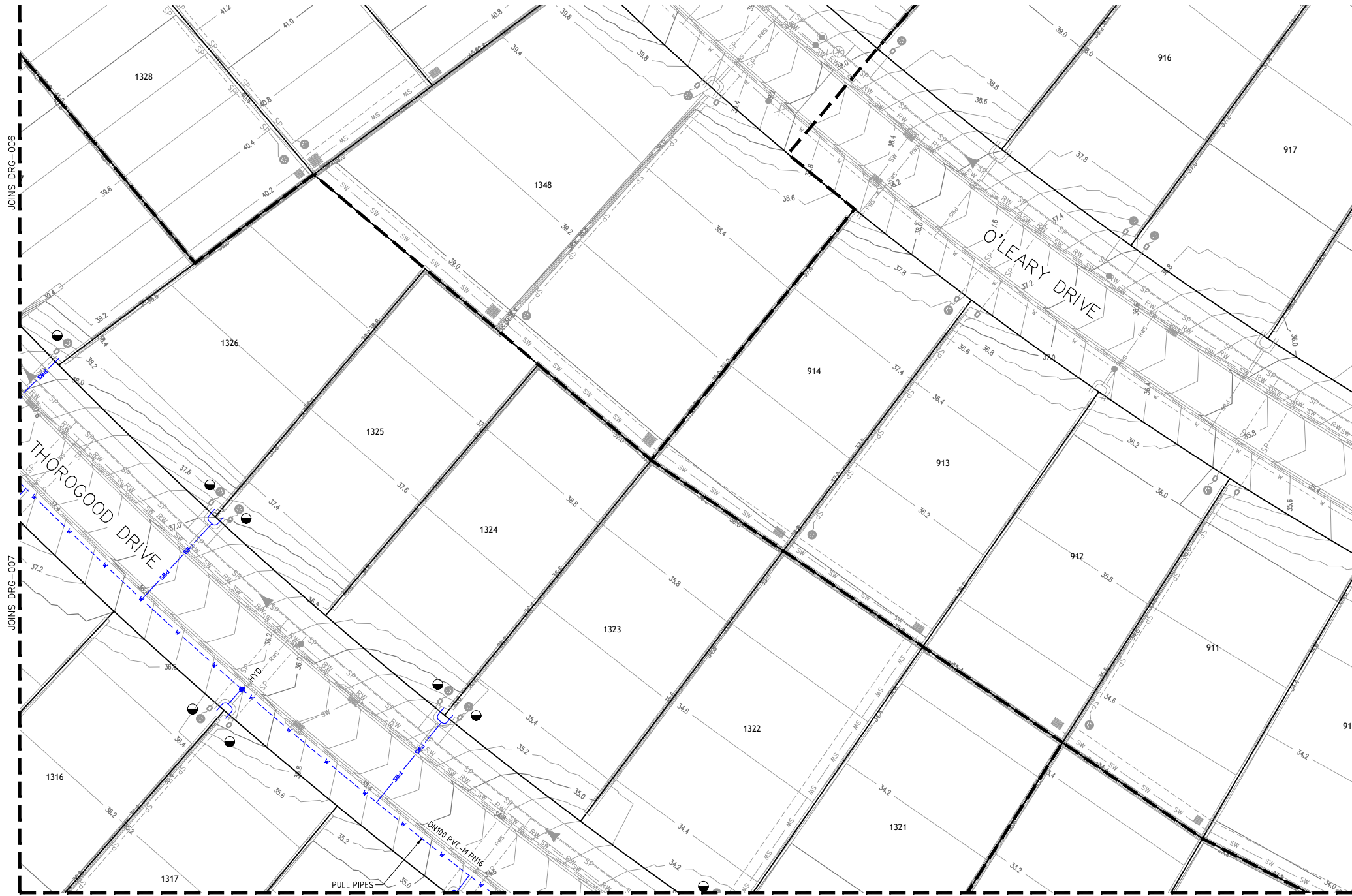
AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 <b>Hunter Office</b> 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	CLIENT	PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	 0 5 10 A1 / A3 1:250 / 1:500		 <b>JOHNSON PROPERTY GROUP</b>	PROPOSED SUBDIVISION		PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 4			
B	15.06.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.				PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK						
C	09.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N.	L.G.				WHISTLER DRIVE, COORANBONG						
D	18.09.2019	AMENDED ISSUE - ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.				DA/307/2015						
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.										
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.			SURVEYED	ADW Johnson	DATUM	A.H.D.	PROJECT No.	DISCIPLINE	NUMBER	REV.
2	24.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.							239078(2.12 & 2.13) -	WAT -	007	4
3	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.										
4	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.										
DESIGN FILE N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE									

Plotted By: scotth Plot Date: 20/01/21 - 09:25 Cad File: \\jserver10\Adw-Data\239078\Draw\water & sewer design\precinct 2 water and sewer\stages 2.12 & 2.13\239078(2.12 & 2.13) - issue 4\239078(2.12 & 2.13)-WAT-004 to 011(4).dwg

239078(2.12 & 2.13)-WAT-004 to 011(4)

100mm AT FULL SIZE



PLAN  
SCALE 1:250

**LEGEND**

W	PVC-M POTABLE WATER RETICULATION
PWS	POTABLE WATER PROPERTY SERVICE
RW	PVC-M RECYCLED WATER RETICULATION
RWS	RECYCLED WATER PROPERTY SERVICE
SP	PE PRESSURE SEWER RETICULATION
T	TELSTRA
E	UNDERGROUND POWER
S/W	STORMWATER PIPEWORK
SV	STOP VALVE
HYD.	HYDRANT
FL HYD.	FLUSHING HYDRANT
●	PROPERTY SERVICE CONNECTION
⊗	EXISTING PROPERTY SERVICE CONNECTION
⊙	LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
⊖	LAY PRESSURE SEWER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
---	LIMIT OF SUBDIVISION WORKS

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
TOTAL 31 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 2 x SHORT SIDE
    - 1 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 8 x SHORT SIDE
    - 6 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	472

- NOTES:**
1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 017.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 026.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

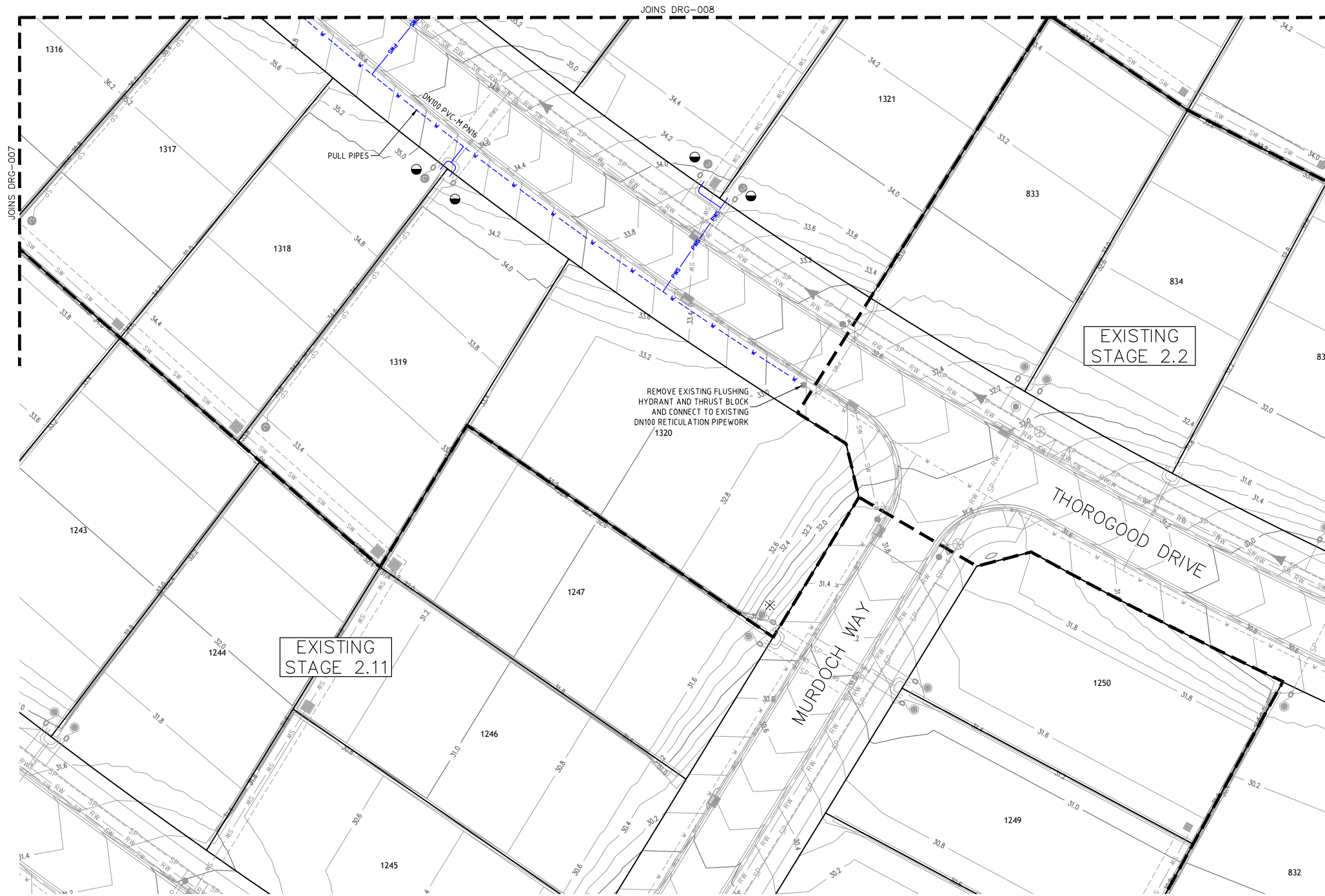
ADW Johnson Pty Ltd  
on behalf of  
**Cooranbong Water**  
Date Approved: 30/09/2019

**AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		<b>Hunter Office</b> 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		CLIENT	PROPERTY DESCRIPTION  PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION				
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	 A1 / A3 1:250 / 1:500						PLAN TITLE  POTABLE WATER DETAIL PLAN - SHEET 5				
B	15.06.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.							ADW Johnson	A.H.D.	PROJECT No. 239078(2.12 & 2.13) - WAT -	DISCIPLINE 008	REV. 4
C	09.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N.	L.G.											
D	18.09.2019	AMENDED ISSUE - ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.											
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.											
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.											
2	24.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.											
3	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.											
4	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.											
DESIGN FILE N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE										
D:\Mtd\239078\Hunt_Plot\Drawn\239078(2.12 & 2.13)_WAT - 004.dwg    D:\Mtd\239078\Hunt_Plot\Drawn\239078(2.12 & 2.13)_WAT - 004.dwg    D:\Mtd\239078\Hunt_Plot\Drawn\239078(2.12 & 2.13)_WAT - 004.dwg    D:\Mtd\239078\Hunt_Plot\Drawn\239078(2.12 & 2.13)_WAT - 004.dwg																	

239078(2.12 & 2.13)-WAT-004 to 011(4)

100mm AT FULL SIZE



- LEGEND
- W --- W PVC-M POTABLE WATER RETICULATION
  - PWS --- PWS POTABLE WATER PROPERTY SERVICE
  - RW --- RW PVC-M RECYCLED WATER RETICULATION
  - RWS --- RWS RECYCLED WATER PROPERTY SERVICE
  - SP --- SP PE PRESSURE SEWER RETICULATION
  - T --- T TELSTRA
  - E --- E UNDERGROUND POWER
  - S/W --- S/W STORMWATER PIPEWORK
  - SV. \* STOP VALVE
  - HYD. • HYDRANT
  - FL HYD. • FLUSHING HYDRANT
  - PROPERTY SERVICE CONNECTION
  - ✕ EXISTING PROPERTY SERVICE CONNECTION
  - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - LAY PRESSURE SEWER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - LIMIT OF SUBDIVISION WORKS




- POTABLE WATER PROPERTY SERVICE CONNECTIONS
- TOTAL 31 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 2 x SHORT SIDE
    - 1 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 8 x SHORT SIDE
    - 6 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	472

- NOTES:
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-012 TO 017.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 026.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

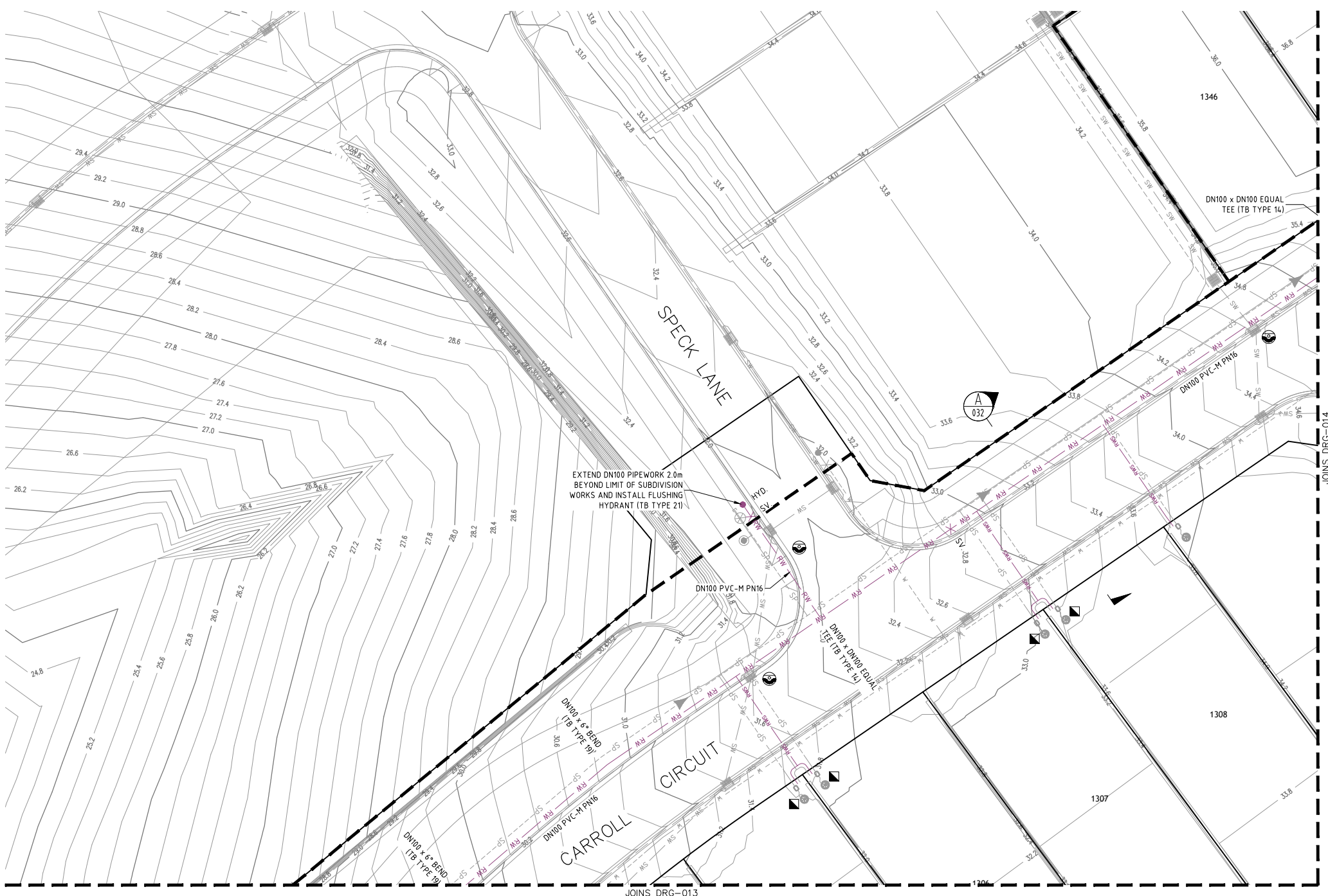
ADW Johnson Pty Ltd  
on behalf of  
**Coorانبong + Water**  
Date Approved: 30/09/2019

**AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 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	CLIENT	PROPERTY DESCRIPTION	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.				PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	
B	15.06.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.							PLAN TITLE
C	09.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N.	L.G.							POTABLE WATER DETAIL PLAN - SHEET 6
D	18.09.2019	AMENDED ISSUE - ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.							
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.							
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.							
2	24.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.							
3	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.							
4	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.							
DESIGN FILE N:\								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE					

239078(2.12 & 2.13)-WAT-012 to 019(4)

100mm AT FULL SIZE



PLAN  
SCALE 1:250



- LEGEND**
- RW — RW — PVC-M RECYCLED WATER RETICULATION
  - RWS — RWS — RECYCLED WATER PROPERTY SERVICE
  - W — W — PVC-M POTABLE WATER RETICULATION
  - PWS — PWS — POTABLE WATER PROPERTY SERVICE
  - SP — SP — PE PRESSURE SEWER RETICULATION
  - T — T — TELSTRA
  - E — E — UNDERGROUND POWER
  - S/W — S/W — STORMWATER PIPEWORK
  - SV — SV — STOP VALVE
  - HYD. — HYD. — HYDRANT
  - FL HYD. — FL HYD. — FLUSHING HYDRANT
  - — ■ — 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

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS
- TOTAL 31 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 1 x SHORT SIDE
    - 2 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 6 x SHORT SIDE
    - 8 x LONG SIDE

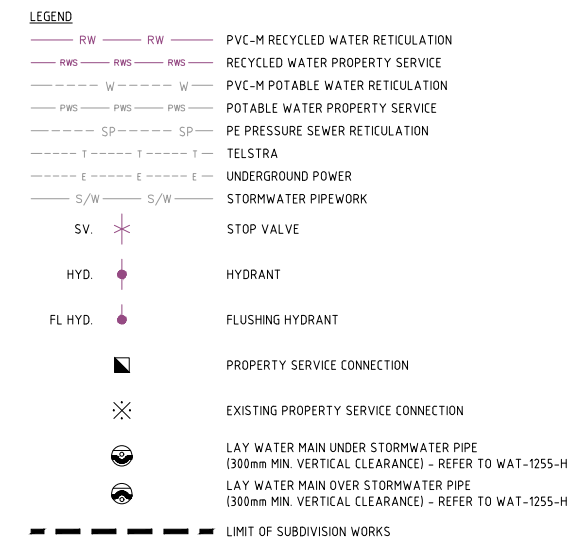
RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	481

- NOTES:**
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 009.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 026.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

ADW Johnson Pty Ltd  
on behalf of  
**Coorانبong Water**  
Date Approved: 30/09/2019

**AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		<p>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</p>		CLIENT	PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION				
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	 A1 / A3 1:250 / 1:500					JOHNSON PROPERTY GROUP	PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 1				
B	15.06.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.									PROJECT No.	DISCIPLINE	NUMBER	REV.	
C	09.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N.	L.G.													
D	18.09.2019	AMENDED ISSUE - ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.													
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.													
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	SURVEYED ADW Johnson								DATUM A.H.D.	PROJECT No. 239078(2.12 & 2.13) - WAT -	DISCIPLINE -	NUMBER 012	REV. 4
2	24.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.													
3	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.													
4	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.Q.	H.M.	J.N.	C.B.													
DESIGN FILE N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE												
D:\Mtd\Drawings\Plot\Drawn: 20/01/21 08:27 D:\Mtd\Drawings\Plot\Drawn: 23/02/21 09:10 D:\Mtd\Drawings\Plot\Draw																			



#### RECYCLED WATER PROPERTY SERVICE CONNECTIONS

TOTAL 31 CONNECTIONS

- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
  - 1 x SHORT SIDE
  - 2 x LONG SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
  - 6 x SHORT SIDE
  - 8 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	481

NOTES:

- NOTES:
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 009.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 026.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

PLAN  
SCALE 1:250

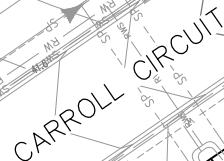
ADW Johnson Pty Ltd  
on behalf of

Cooranbong + Water

Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 <div>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</div>	CLIENT	PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	 <div>0 5 10 A1 / A3 1:250 / 1:500</div>		 <div>JOHNSON PROPERTY GROUP</div>	PROPOSED SUBDIVISION		PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 2			
B	15.06.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.				PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK						
C	09.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N.	L.G.				WHISTLER DRIVE, COORANBONG						
D	18.09.2019	AMENDED ISSUE - ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.				DA/307/2015						
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.										
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.			SURVEYED	ADW Johnson	DATUM	A.H.D.	PROJECT No.	DISCIPLINE	NUMBER	REV.
2	24.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.							239078(2.12 & 2.13) -	WAT -	013	4
3	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.										
4	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.										
DESIGN FILE N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE									



JOINS DRG-015

PLAN  
SCALE 1:25

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS  
 TOTAL 31 CONNECTIONS  
 • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V  
     -1 x SHORT SIDE  
     -2 x LONG SIDE  
 • SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V  
     -6 x SHORT SIDE  
     -8 x LONG SIDE

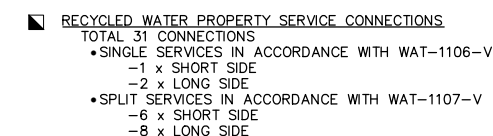
RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	481

- NOTES:
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 009.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 026.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 <p><b>Hunter Office</b> 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</p>	 <p><b>JOHNSON PROPERTY GROUP</b></p>	CLIENT	PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE		RECYCLED WATER DETAIL PLAN - SHEET 3														
PRECINCT 2, STAGES 2.12 AND 2.13 WATANG PARK WHISTLER DRIVE, COORANBONG DA/307/2015		SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.									
		ADW Johnson	A.H.D.	239078(2.12 & 2.13) -	WAT -	014	4									



RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	481

NOTES:

1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 009.
2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 026.
3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

ADW Johnson Pty Ltd  
on behalf of

Cooranbong  Water

Date Approved: 30/09/2019

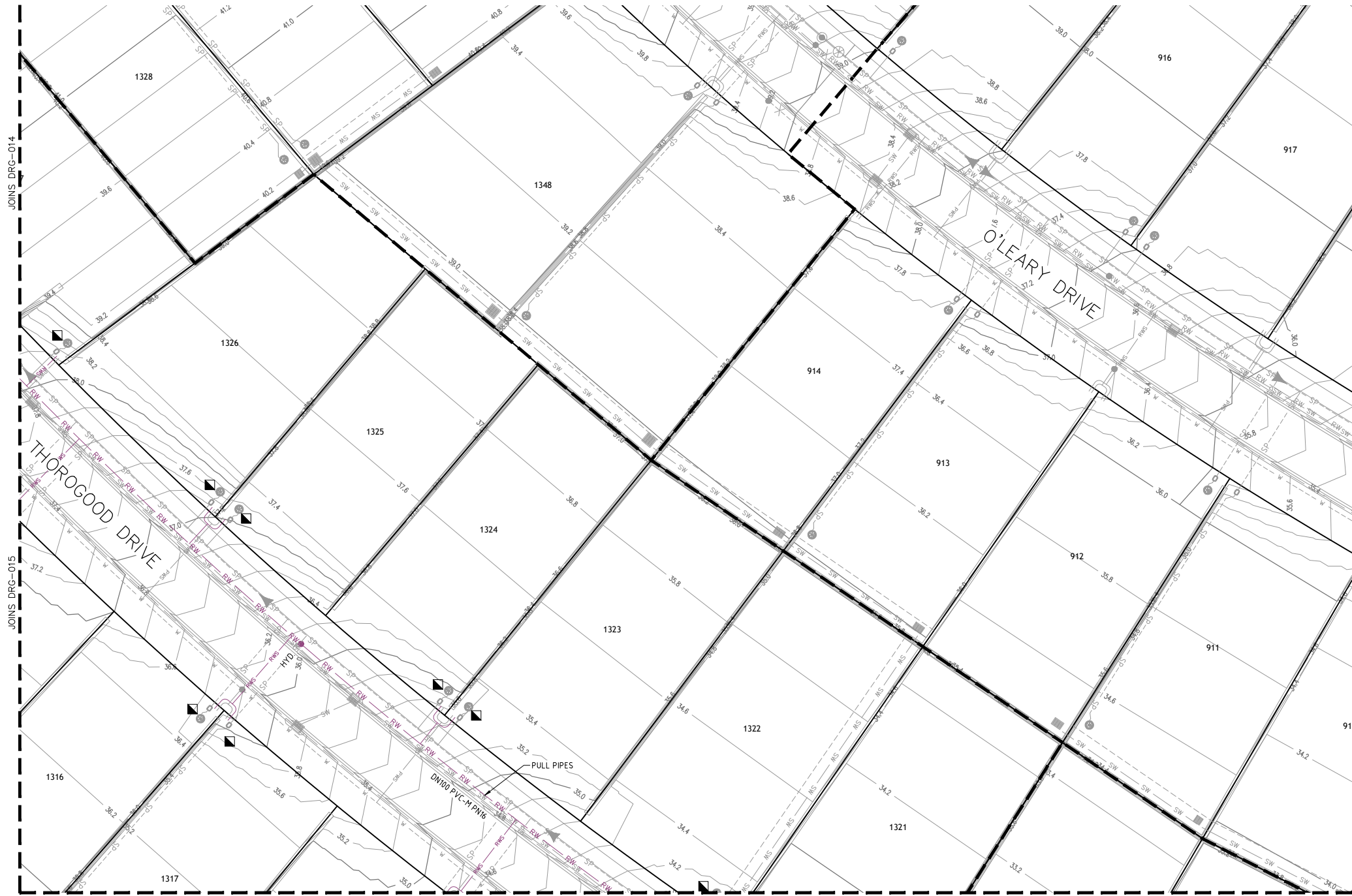
AS CONSTRUCTED

REV.		DATE	AMENDMENT		DRAWN	CHECK	DESIGN	VERIFY	SCALES		 <div>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</div>	CLIENT		PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION				
														PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 4						
A	15.01.2016		PRELIMINARY ISSUE		J.N.	L.G.	J.N.	L.G.	 <div>A1 / A3 1:250 / 1:500</div>				<div>PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015</div>								
B	15.06.2016		AMENDED ISSUE – SERVICES RELOCATED		J.N.	L.G.	J.N.	L.G.													
C	09.09.2019		AMENDED ISSUE – CLIENT COMMENTS		J.N.	L.G.	J.N.	L.G.													
D	18.09.2019		AMENDED ISSUE – ADJUSTED LIMIT OF WORKS		J.N.	L.G.	J.N.	L.G.													
0	30.09.2019		CONSTRUCTION ISSUE		J.N.	L.G.	J.N.	L.G.													
1	04.08.2020		AMENDED CONSTRUCTION ISSUE		J.N.	C.B.	J.N.	C.B.													
2	24.08.2020		AMENDED CONSTRUCTION ISSUE		J.N.	C.B.	J.N.	C.B.													
3	27.08.2020		AMENDED CONSTRUCTION ISSUE		J.N.	C.B.	J.N.	C.B.													
4	14.01.2021		LOT NUMBERS UPDATED TO MATCH REGISTERED DP		S.H.O.	H.M.	J.N.	C.B.													
DESIGN FILE N:\									ALL DIMENSIONS ARE IN METRES. DO NOT SCALE												
												SURVEYED ADW Johnson		DATUM A.H.D.		PROJECT No. 239078(2.12 & 2.13) - WAT -		DISCIPLINE 015		NUMBER 4	

Plotted By: scotth Plot Date: 20/01/21 - 09:29 Cad File: \\jserver10\Adw-Data\239078\Draw\water & sewer design\precinct 2 water and sewer\stages 2.12 & 2.13\239078(2.12 & 2.13) - issue 4\239078(2.12 & 2.13)-WAT-012 to 019(4).dwg

239078(2.12 & 2.13)-WAT-012 to 019(4)

100mm AT FULL SIZE



PLAN  
SCALE 1:250

- LEGEND
- RW — RW — PVC-M RECYCLED WATER RETICULATION
  - RWS — RWS — RECYCLED WATER PROPERTY SERVICE
  - W — W — PVC-M POTABLE WATER RETICULATION
  - PWS — PWS — POTABLE WATER PROPERTY SERVICE
  - SP — SP — PE PRESSURE SEWER RETICULATION
  - T — T — TELSTRA
  - E — E — UNDERGROUND POWER
  - S/W — S/W — STORMWATER PIPEWORK
  - SV. — STOP VALVE
  - HYD. — HYDRANT
  - FL HYD. — FLUSHING HYDRANT
  - — 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

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS
- TOTAL 31 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 1 x SHORT SIDE
    - 2 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 6 x SHORT SIDE
    - 8 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	481

- NOTES:
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 009.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 026.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

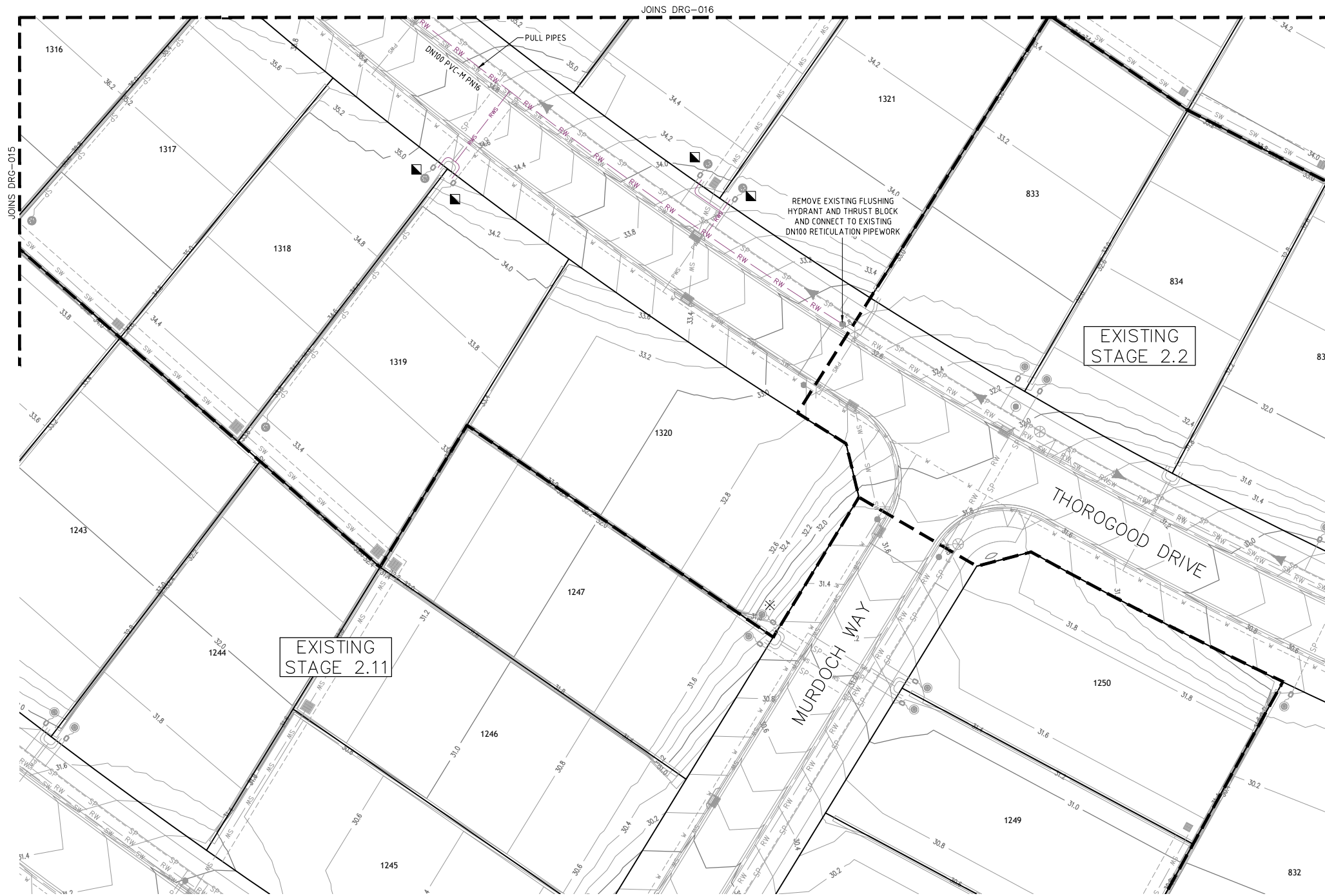
ADW Johnson Pty Ltd  
on behalf of  
**Coorانبong + Water**  
Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		<p>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</p>		CLIENT	PROPERTY DESCRIPTION	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION					
PLAN TITLE																		
RECYCLED WATER DETAIL PLAN - SHEET 5																		
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.						PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PROJECT No.	DISCIPLINE	NUMBER	REV.		
B	15.06.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.							ADW Johnson	A.H.D.	239078(2.12 & 2.13) - WAT -	016	4	
C	09.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N.	L.G.												
D	18.09.2019	AMENDED ISSUE - ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.												
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.												
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.												
2	24.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.												
3	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.												
4	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.												
DESIGN FILE N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE											
D:\Mid-Range\H... Plot Path: C:\G1\G1... G1																		

239078(2.12 & 2.13)-WAT-012 to 019(4)

100mm AT FULL SIZE



JOINS DRG-011

PLAN  
SCALE 1:250



- LEGEND
- RW RW PVC-M RECYCLED WATER RETICULATION
  - RWS RWS RWS RECYCLED WATER PROPERTY SERVICE
  - W W W PVC-M POTABLE WATER RETICULATION
  - PWS PWS PWS POTABLE WATER PROPERTY SERVICE
  - SP SP PE PRESSURE SEWER RETICULATION
  - T T T TELSTRA
  - E E E UNDERGROUND POWER
  - S/W S/W STORMWATER PIPEWORK
  - SV. STOP VALVE
  - HYD. HYDRANT
  - FL HYD. FLUSHING HYDRANT
  - 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

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS
- TOTAL 31 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 1 x SHORT SIDE
    - 2 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 6 x SHORT SIDE
    - 8 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	481

- NOTES:
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 009.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-020 TO 026.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.

ADW Johnson Pty Ltd  
on behalf of  
**Coorانبong Water**  
Date Approved: 30/09/2019

**AS CONSTRUCTED**

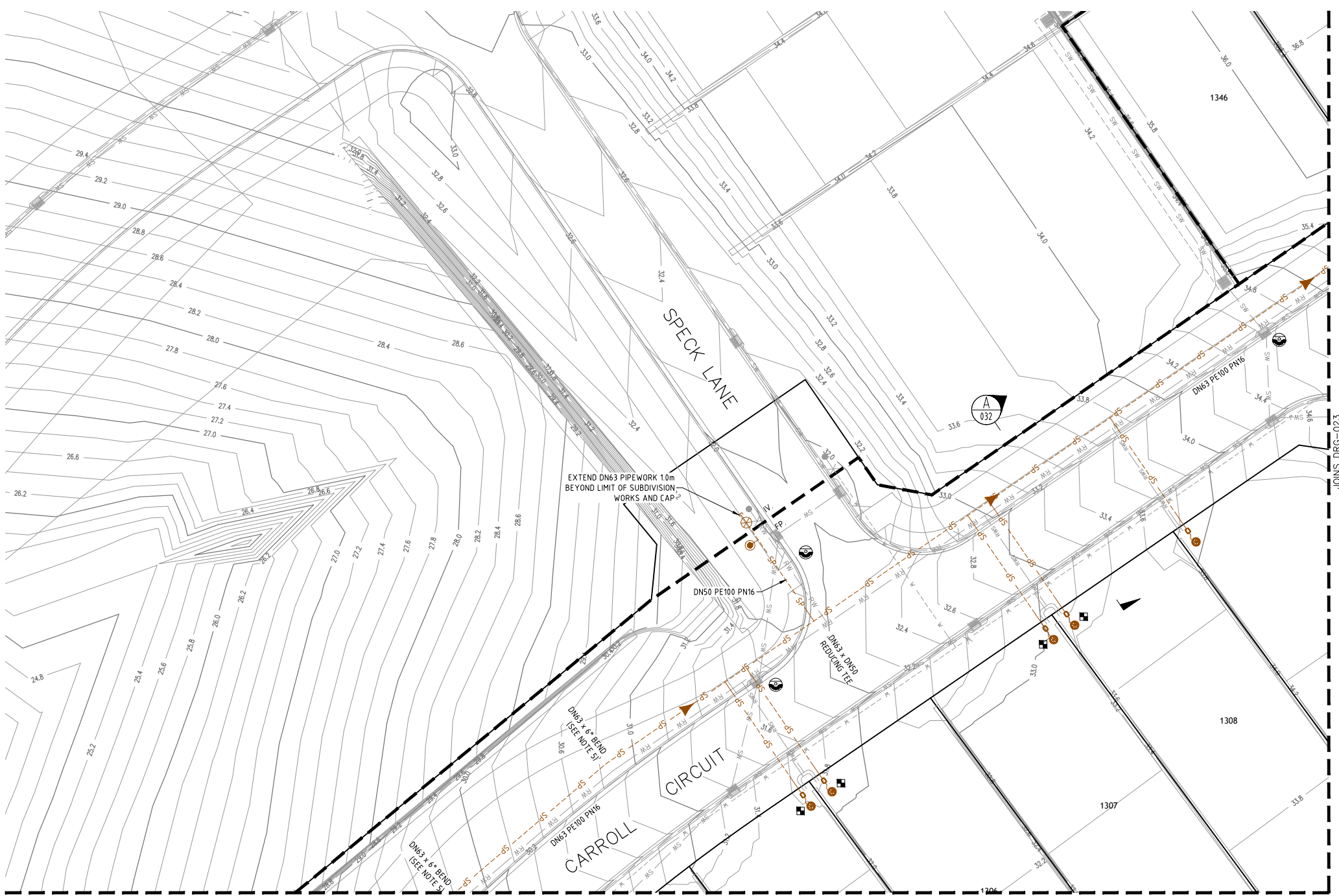
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES			CLIENT 	PROPERTY DESCRIPTION PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015		PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		PLAN TITLE RECYCLED WATER DETAIL PLAN - SHEET 6		PROJECT No. 239078(2.12 & 2.13) - WAT -		DISCIPLINE NUMBER 017		REV. 4	
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	0 5 10 A1 / A3 1:250 / 1:500															
B	15.06.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.																
C	09.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N.	L.G.																
D	18.09.2019	AMENDED ISSUE - ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.																
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.																
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.																
2	24.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.																
3	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.																
4	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.Q.	H.M.	J.N.	C.B.																

DESIGN FILE N:\

Plotted By: scotth Plot Date: 20/01/21 - 09:29 Cad File: \\pserver10\Adw-Data\239078\Dwg\water & sewer design\precinct 2 water and sewer\stages 2.12 & 2.13\239078(2.12 & 2.13) - issue 4\239078(2.12 & 2.13)-WAT-012 to 019(4).dwg

239078(2.12 & 2.13)-WAT-020 to 027(4)

100mm AT FULL SIZE



**LEGEND**

- SP --- SP PE PRESSURE SEWER RETICULATION
- W --- W PVC-M POTABLE WATER RETICULATION
- PWS --- PWS POTABLE WATER PROPERTY SERVICE
- RW --- RW PVC-M RECYCLED WATER RETICULATION
- RWS --- RWS RECYCLED WATER PROPERTY SERVICE
- T --- T TELSTRA
- E --- E UNDERGROUND POWER
- S/W --- S/W STORMWATER PIPEWORK
- IV. ISOLATION VALVE
- FP. FLUSHING POINT
- WASTEWATER COLLECTION TANK AND BOUNDARY KIT
- PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
- PROPERTY SERVICE CONNECTION
- EXISTING PROPERTY SERVICE CONNECTION
- LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- LIMIT OF SUBDIVISION WORKS

**■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**  
TOTAL 31 CONNECTIONS  
• SINGLE SERVICES  
- 13 x SHORT SIDE  
- 18 x LONG SIDE

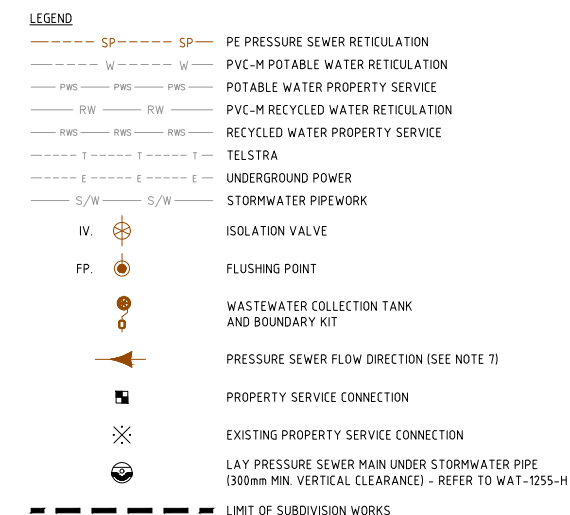
PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE100 PN16	64
DN63	PE100 PN16	389
DN50	PE100 PN16	13

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 009.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-012 AND 017.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.
  - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
  - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
  - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
  - DIRECTION OF FLOW OF PRESSURE SEWER SHOWN ALONG MAGUIRE DRIVE AND SPECK LANE IS TEMPORARY. FLOW ALONG THESE ROADS WILL BE REDIRECTED THROUGH THE FUTURE DEVELOPMENT AFTER CONSTRUCTION OF THE FUTURE DEVELOPMENT HAS BEEN COMPLETED.

ADW Johnson Pty Ltd  
on behalf of  
**Coorانبong + Water**  
Date Approved: 30/09/2019

**AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		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		CLIENT	PROPERTY DESCRIPTION		PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION								
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.						PROPOSED SUBDIVISION		PLAN TITLE								
B	15.06.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.						PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK		PRESSURE SEWER DETAIL PLAN - SHEET 1								
C	09.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N.	L.G.						WHISTLER DRIVE, COORANBONG										
D	18.09.2019	AMENDED ISSUE - ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.						DA/307/2015										
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.																
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.																
2	24.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.																
3	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.																
4	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.																
DESIGN FILE N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				SURVEYED		DATUM		PROJECT No.		DISCIPLINE		NUMBER		REV.	
Plotted By: scotth											ADW Johnson		A.H.D.		239078(2.12 & 2.13) - WAT -		020		4			



■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS  
TOTAL 31 CONNECTIONS  
• SINGLE SERVICES  
-13 x SHORT SIDE  
-18 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE100 PN16	64
DN63	PE100 PN16	389
DN50	PE100 PN16	13

NOTES:


1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS--004 TO 009.
2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS--012 AND 017.
3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG--030.
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. DIRECTION OF FLOW OF PRESSURE SEWER SHOWN ALONG MAGUIRE DRIVE AND SPECK LANE IS TEMPORARY. FLOW ALONG THESE ROADS WILL BE REDIRECTED THROUGH THE FUTURE DEVELOPMENT AFTER CONSTRUCTION OF THE FUTURE DEVELOPMENT HAS BEEN COMPLETED.

ADW Johnson Pty Ltd  
on behalf of

Cooranbong + Water

Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	
B	15.06.2016	AMENDED ISSUE – SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	
C	09.09.2019	AMENDED ISSUE – ADJUST COMMENTS	J.N.	L.G.	J.N.	L.G.	
D	18.09.2019	AMENDED ISSUE – CLIENT LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.	
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
2	24.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
3	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
4	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.HO.	H.M.	J.N.	C.B.	



**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  
ARN 62 129 445 398



PROPERTY DESCRIPTION

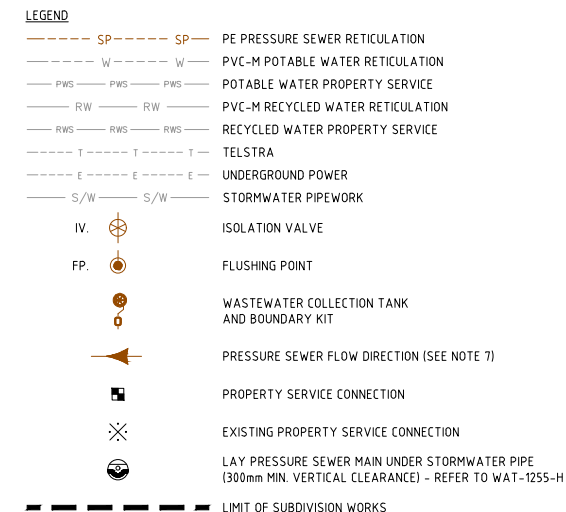
PROPOSED SUBDIVISION  
PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK  
WHISTLER DRIVE, COORANBONG  
DA/307/2015

EYED ADW Johnson	DATUM A.H.D.
---------------------	-----------------

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
---------	--

PLAN TITLE	PRESSURE SEWER DETAIL PLAN - SHEET 2
------------	---

PROJECT No.	DISCIPLINE	NUMBER	REV
239078(2 12 & 2 13) - WAT -		021	1



■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS  
TOTAL 31 CONNECTIONS  
• SINGLE SERVICES  
-13 x SHORT SIDE  
-18 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE100 PN16	64
DN63	PE100 PN16	389
DN50	PE100 PN16	13

NOTES:

1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS--004 TO 009.
2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS--012 AND 017.
3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG--030.
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. DIRECTION OF FLOW OF PRESSURE SEWER SHOWN ALONG MAGUIRE DRIVE AND SPECK LAKE IS TEMPORARY. FLOW ALONG THESE ROADS WILL BE REDIRECTED THROUGH THE FUTURE DEVELOPMENT AFTER CONSTRUCTION OF THE FUTURE DEVELOPMENT HAS BEEN COMPLETED.

ADW Johnson Pty Ltd  
on behalf of

Cooranbong + Water

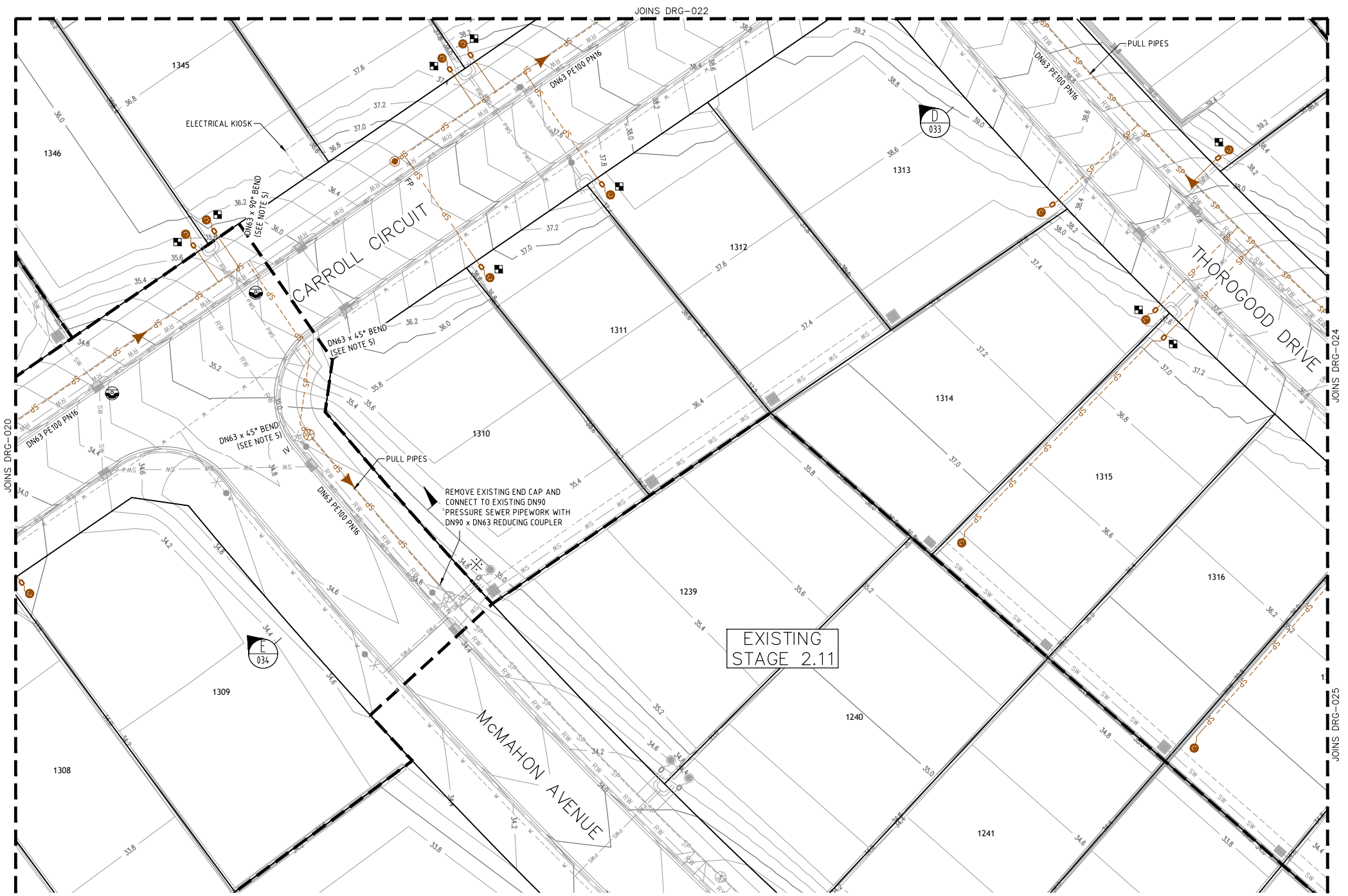
Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 <b>Hunter Office</b> 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	CLIENT	PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	 0 5 10 A1 / A3 1:250 / 1:500		 <b>JOHNSON PROPERTY GROUP</b>	PROPOSED SUBDIVISION		PLAN TITLE	PRESSURE SEWER DETAIL PLAN - SHEET 3			
B	15.06.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.				PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK						
C	09.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N.	L.G.				WHISTLER DRIVE, COORANBONG						
D	18.09.2019	AMENDED ISSUE - ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.				DA/307/2015						
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.										
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.			SURVEYED	ADW Johnson	DATUM	A.H.D.	PROJECT No.	DISCIPLINE	NUMBER	REV.
2	24.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.							239078(2.12 & 2.13) -	WAT -	022	4
3	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.										
4	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.										
DESIGN FILE N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE									

239078(2.12 & 2.13)-WAT-020 to 027(4)

100mm AT FULL SIZE



PLAN  
SCALE 1:250



- LEGEND
- SP PE PRESSURE SEWER RETICULATION
  - W PVC-M POTABLE WATER RETICULATION
  - PWS POTABLE WATER PROPERTY SERVICE
  - RW PVC-M RECYCLED WATER RETICULATION
  - RWS RECYCLED WATER PROPERTY SERVICE
  - T TELSTRA
  - E UNDERGROUND POWER
  - S/W STORMWATER PIPEWORK
  - IV ISOLATION VALVE
  - FP FLUSHING POINT
  - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
  - PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
  - PROPERTY SERVICE CONNECTION
  - EXISTING PROPERTY SERVICE CONNECTION
  - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - LIMIT OF SUBDIVISION WORKS

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
- TOTAL 31 CONNECTIONS
- SINGLE SERVICES
  - 13 x SHORT SIDE
  - 18 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE100 PN16	64
DN63	PE100 PN16	389
DN50	PE100 PN16	13

- NOTES:
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 009.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-012 AND 017.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.
  - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
  - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
  - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
  - DIRECTION OF FLOW OF PRESSURE SEWER SHOWN ALONG MAGUIRE DRIVE AND SPECK LANE IS TEMPORARY. FLOW ALONG THESE ROADS WILL BE REDIRECTED THROUGH THE FUTURE DEVELOPMENT AFTER CONSTRUCTION OF THE FUTURE DEVELOPMENT HAS BEEN COMPLETED.

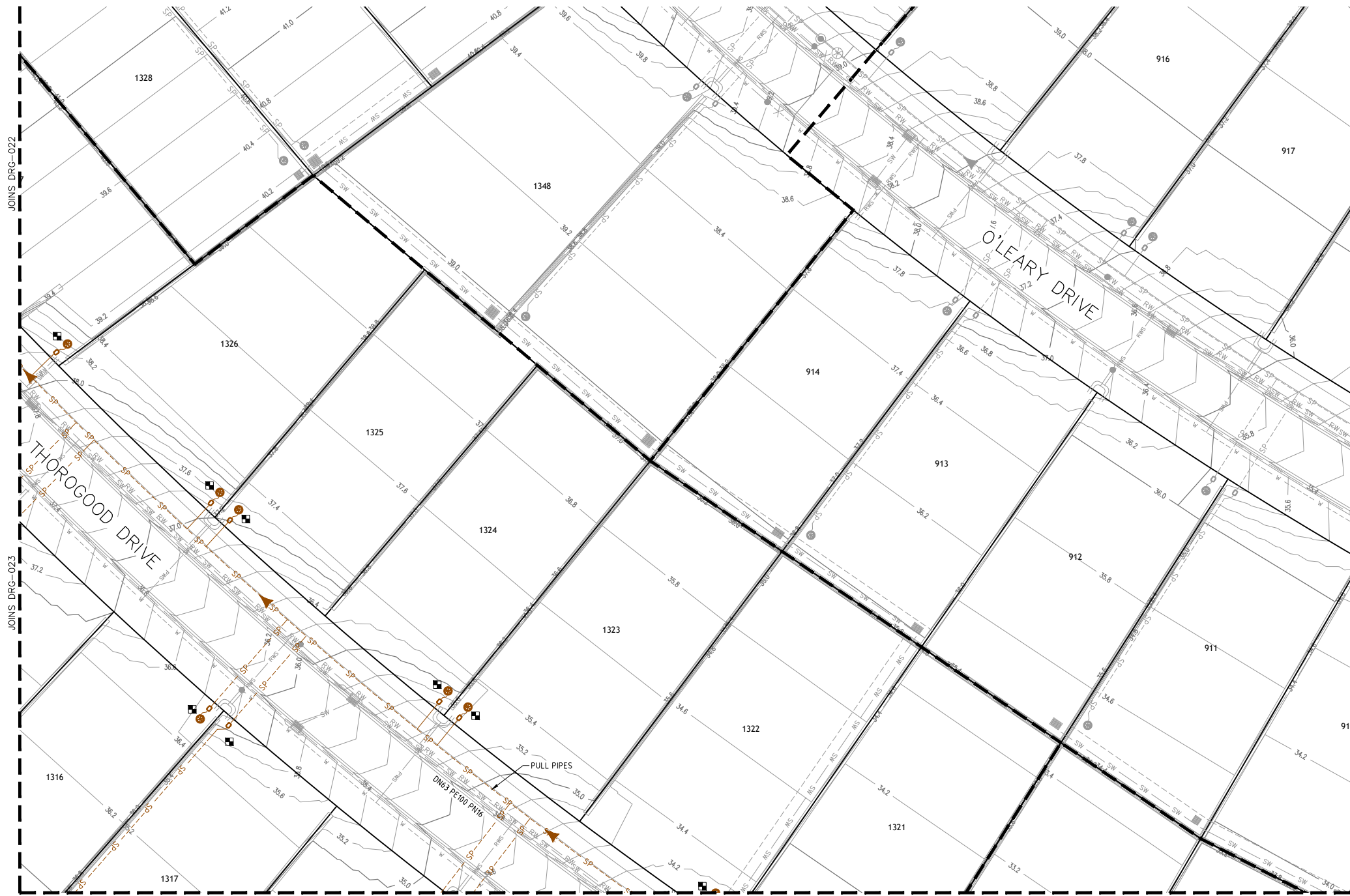
ADW Johnson Pty Ltd  
on behalf of  
**Cooranbong Water**  
Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		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		CLIENT	PROPERTY DESCRIPTION  PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION					
							 A1 / A3 1:250 / 1:500						PLAN TITLE  PRESSURE SEWER DETAIL PLAN - SHEET 4	PROJECT No.	DISCIPLINE	NUMBER	REV.	
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.												
B	15.06.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.												
C	09.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N.	L.G.												
D	18.09.2019	AMENDED ISSUE - ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.												
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.												
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.												
2	24.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.												
3	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.												
4	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.												
DESIGN FILE N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE											
Plotted By: scotth Plot Date: 20/01/21 - 09:32 Cad File: \\jsrver10\Adw-Data\239078\Wdg\water & sewer design\precinct 2 water and sewer\stages 2.12 & 2.13\239078(2.12 & 2.13) - issue 4\239078(2.12 & 2.13)-WAT-020 to 027(4).dwg																		

239078(2.12 & 2.13)-WAT-020 to 027(4)

100mm AT FULL SIZE



PLAN  
SCALE 1:250

**LEGEND**

- SP PE PRESSURE SEWER RETICULATION
- W PVC-M POTABLE WATER RETICULATION
- PWS POTABLE WATER PROPERTY SERVICE
- RW PVC-M RECYCLED WATER RETICULATION
- RWS RECYCLED WATER PROPERTY SERVICE
- T TELSTRA
- E UNDERGROUND POWER
- S/W STORMWATER PIPEWORK
- IV ISOLATION VALVE
- FP FLUSHING POINT
- WWS WASTEWATER COLLECTION TANK AND BOUNDARY KIT
- PSC PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
- EPSC PROPERTY SERVICE CONNECTION
- EPSC EXISTING PROPERTY SERVICE CONNECTION
- LPS LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- LIMIT OF SUBDIVISION WORKS

**■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**  
TOTAL 31 CONNECTIONS  
• SINGLE SERVICES  
- 13 x SHORT SIDE  
- 18 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE100 PN16	64
DN63	PE100 PN16	389
DN50	PE100 PN16	13

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 009.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-012 AND 017.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.
  - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
  - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
  - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
  - DIRECTION OF FLOW OF PRESSURE SEWER SHOWN ALONG MAGUIRE DRIVE AND SPECK LANE IS TEMPORARY. FLOW ALONG THESE ROADS WILL BE REDIRECTED THROUGH THE FUTURE DEVELOPMENT AFTER CONSTRUCTION OF THE FUTURE DEVELOPMENT HAS BEEN COMPLETED.

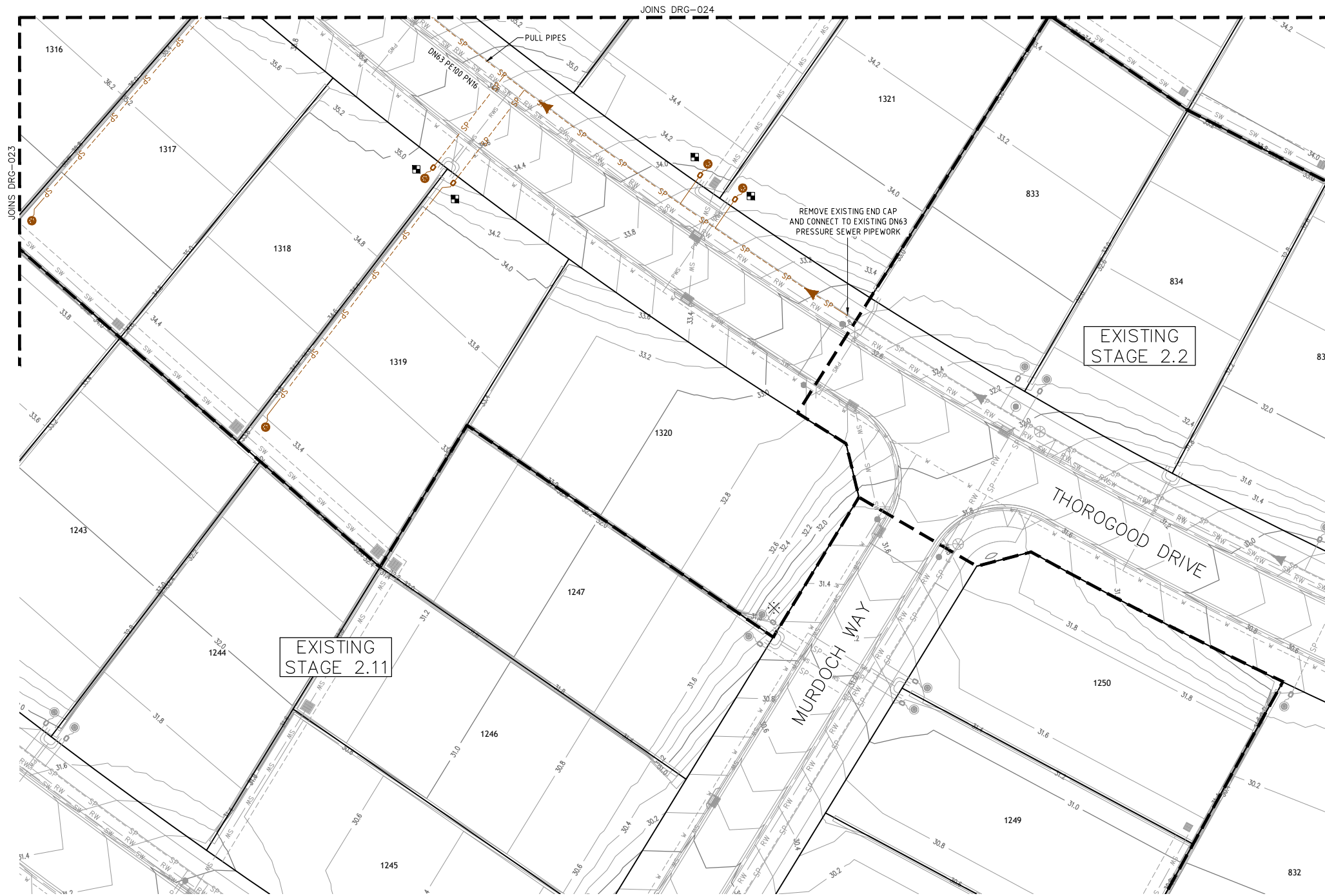
ADW Johnson Pty Ltd  
on behalf of  
**Coorانبong Water**  
Date Approved: 30/09/2019

**AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	<div><div>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</div></div>		CLIENT	<div>PROPERTY DESCRIPTION PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015</div>
------	------	-----------	-------	-------	--------	--------	--------	--	--	--------	---

239078(2.12 & 2.13)-WAT-020 to 027(4)

100mm AT FULL SIZE



PLAN  
SCALE 1:250

**LEGEND**

- SP PE PRESSURE SEWER RETICULATION
- W PVC-M POTABLE WATER RETICULATION
- PWS POTABLE WATER PROPERTY SERVICE
- RW PVC-M RECYCLED WATER RETICULATION
- RWS RECYCLED WATER PROPERTY SERVICE
- T TELSTRA
- E UNDERGROUND POWER
- S/W STORMWATER PIPEWORK
- IV ISOLATION VALVE
- FP FLUSHING POINT
- WASTEWATER COLLECTION TANK AND BOUNDARY KIT
- PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
- PROPERTY SERVICE CONNECTION
- EXISTING PROPERTY SERVICE CONNECTION
- LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- LIMIT OF SUBDIVISION WORKS

**PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**  
TOTAL 31 CONNECTIONS  
• SINGLE SERVICES  
- 13 x SHORT SIDE  
- 18 x LONG SIDE

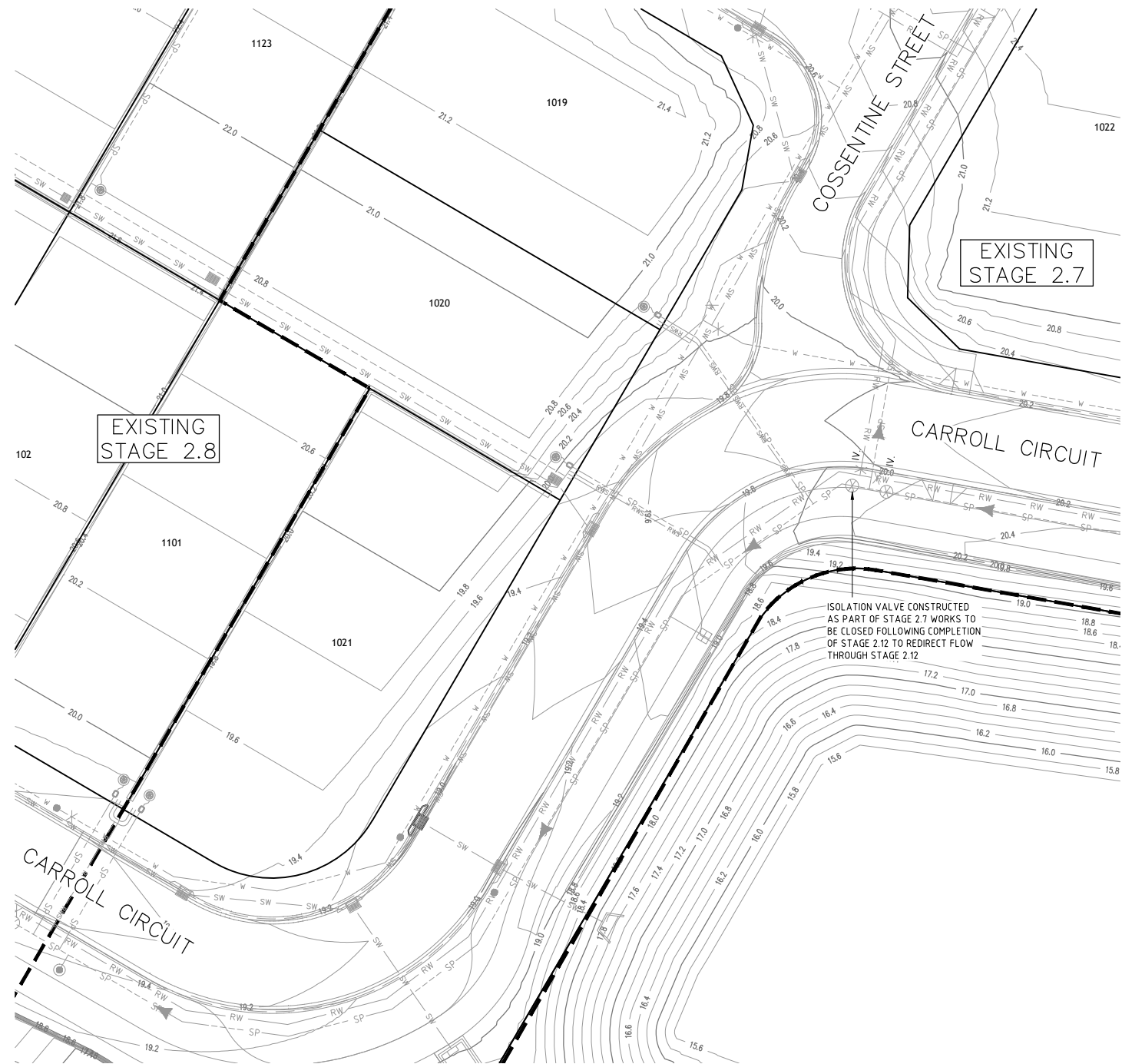
PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE100 PN16	64
DN63	PE100 PN16	389
DN50	PE100 PN16	13

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 009.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-012 AND 017.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-030.
  - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
  - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
  - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
  - DIRECTION OF FLOW OF PRESSURE SEWER SHOWN ALONG MAGUIRE DRIVE AND SPECK LANE IS TEMPORARY. FLOW ALONG THESE ROADS WILL BE REDIRECTED THROUGH THE FUTURE DEVELOPMENT AFTER CONSTRUCTION OF THE FUTURE DEVELOPMENT HAS BEEN COMPLETED.

ADW Johnson Pty Ltd  
on behalf of  
**Coorانبong Water**  
Date Approved: 30/09/2019

**AS CONSTRUCTED**

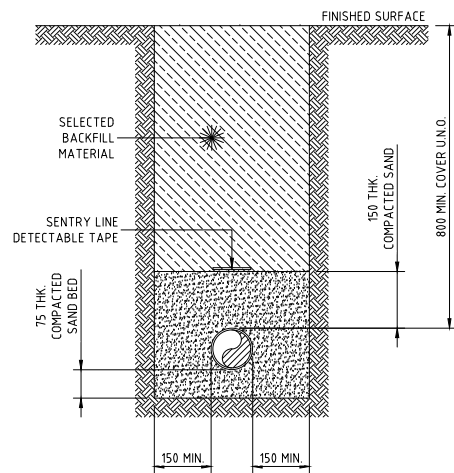
REV.		DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	<div><div><div>adw</div><div>Johnson</div></div><div><div>Hunter Office</div><div>Unit 7/335 Hillsborough Rd</div><div>Warners Bay N.S.W. 2282</div><div>Phone: (02) 4978 5100</div><div>Fax: (02) 4978 5199</div><div>email: hunter@adwjohnson.com.au</div><div>www.adwjohnson.com.au</div><div>ABN 62 129 445 398</div></div></div>	CLIENT	PROPERTY DESCRIPTION	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
A	15.01.2016		PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	<div><div><div>0</div><div>5</div><div>10</div></div><div>A1 / A3</div><div>1:250 / 1:500</div></div>			<div><div><div></div><div>JOHNSON PROPERTY GROUP</div></div></div>	PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PLAN TITLE	PRESSURE SEWER DETAIL PLAN - SHEET 6		
B	15.06.2016		AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.			PROJECT No.			DISCIPLINE	NUMBER	REV.	
C	09.09.2019		AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N.	L.G.			ADW Johnson			A.H.D.	239078(2.12 & 2.13) - WAT -	025	4
D	18.09.2019		AMENDED ISSUE - ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.									
0	30.09.2019		CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.									
1	04.08.2020		AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.									
2	24.08.2020		AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.									
3	27.08.2020		AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.									
4	14.01.2021		LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.									
DESIGN FILE: N:\										ALL DIMENSIONS ARE IN METRES. DO NOT SCALE						



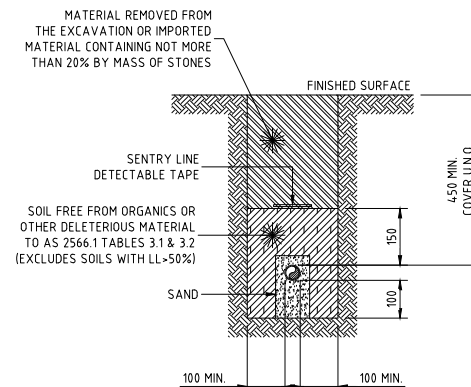
ADW Johnson Pty Ltd  
on behalf of  
**Cooranbong** Water  
Date Approved: 30/09/2019

**AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 <div>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</div>	CLIENT	PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		 <div>JOHNSON PROPERTY GROUP</div>	PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PLAN TITLE	PRESSURE SEWER FLOW REDIRECTION DETAIL			
B	15.06.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.									
C	09.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N.	L.G.									
D	18.09.2019	AMENDED ISSUE - ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.									
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.									
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	J.N.	J.N.	C.B.									
2	24.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.									
3	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.									
4	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.									
DESIGN FILE N:\										SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239078(2.12 & 2.13) - WAT -	DISCIPLINE 026	NUMBER 026	REV. 4



STREET PRESSURE MAIN  
TYPICAL DETAIL  
SCALE 1:10



PRIVATE PROPERTY PRESSURE MAIN  
TYPICAL DETAIL  
SCALE 1:10

NOTES:

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

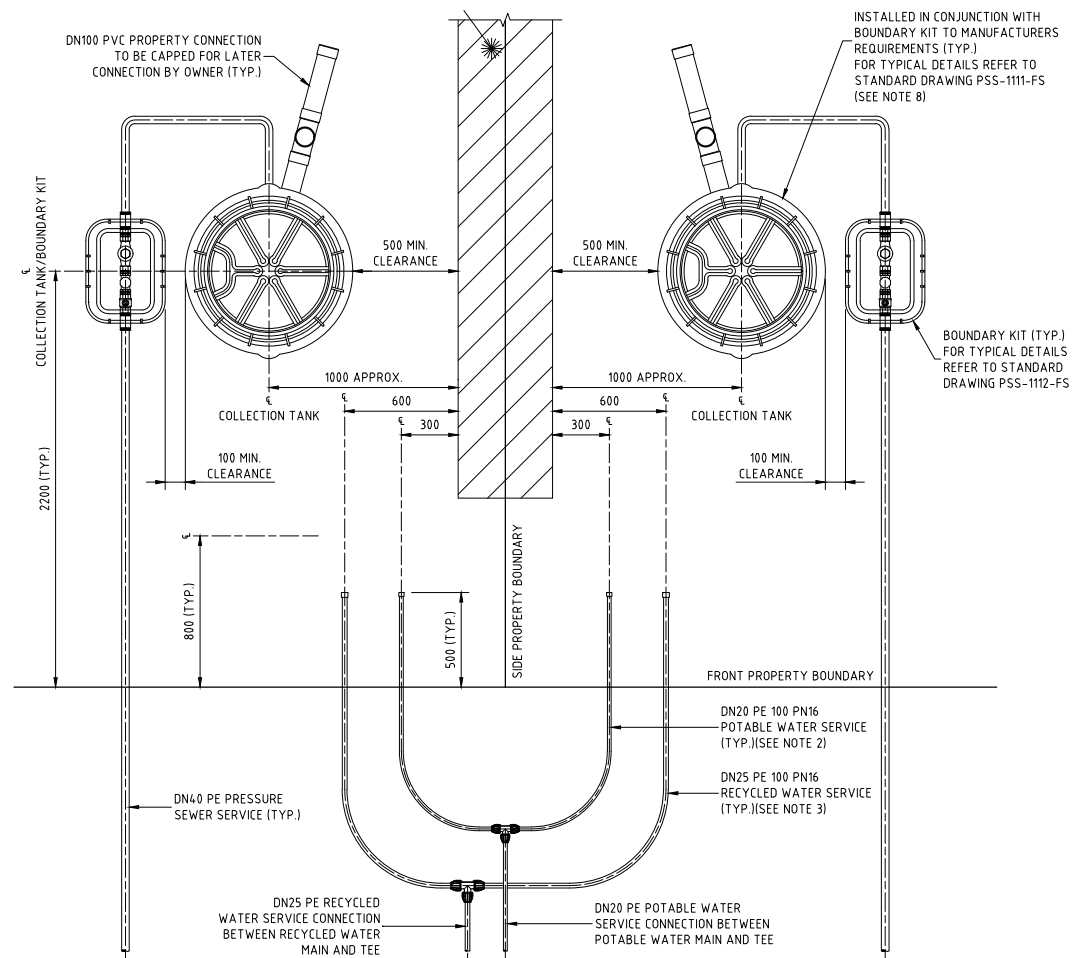
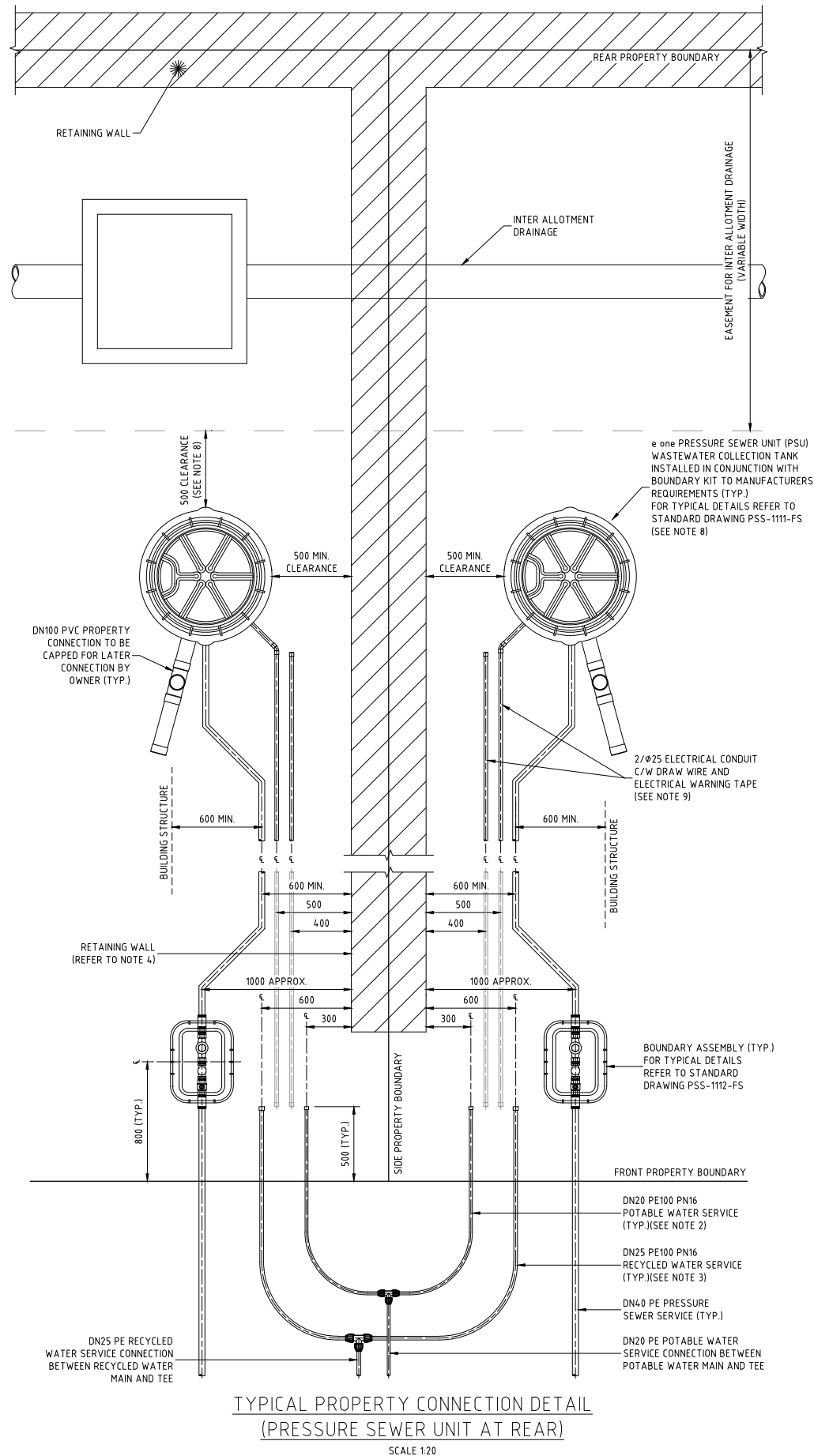
ADW Johnson Pty Ltd  
on behalf of

Cooranbong Water

Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 <div>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</div>	CLIENT	 <div>JOHNSON PROPERTY GROUP</div>	PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.			PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015		JOHNSON PROPERTY GROUP	PLAN TITLE	TYPICAL PIPEWORK TRENCHING DETAILS			
B	15.06.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.										
C	09.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N.	L.G.										
D	18.09.2019	AMENDED ISSUE - ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.										
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.										
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.										
2	24.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.										
3	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.										
4	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.										
DESIGN FILE N:\												ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				



NOTES:

- PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS (SYDNEY WATER VERSION)(SUPPLEMENT TO WSA 03-2011).
- DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- DN25 PE100 PN16 RECYCLED WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT, SERVICES ARE TO BE OFFSET FROM THE PROPERTY BOUNDARY.
- 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.
- MINIMUM BENDING RADIUS FOR PE PIPEWORK IS TO BE 20 x PIPE DIAMETER.
- ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
- 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.
- Ø25 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.
- FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-FS.
- 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.

ADW Johnson Pty Ltd  
on behalf of

Cooranbong + Water

Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	0 0.1 0.2 0.3 0.4 A1 / A3
B	15.06.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	1:10 / 1:20
C	09.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N.	L.G.	
D	18.09.2019	AMENDED ISSUE - ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.	0 0.4 0.8 A1 / A3
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	1:20 / 1:40
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
2	24.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
3	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
4	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.	

DESIGN FILE N:\  
Plotted By: scotth Plot Date: 20/01/21 - 09:33 Cad File: \\jsrver10\Adw-Data\239078\Wdg\water & sewer design\precinct 2 water and sewer\stages 2.12 & 2.13\239078(2.12 & 2.13) - issue 4\239078(2.12 & 2.13)-WAT-028 to 031(4).dwg



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

CLIENT



PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK  
WHISTLER DRIVE, COORANBONG  
DA/307/2015

SURVEYED

ADW Johnson

DATUM

A.H.D.

PROJECT

POTABLE WATER, RECYCLED WATER AND  
PRESSURE SEWER RETICULATION

PLAN TITLE

TYPICAL SERVICE CONNECTION DETAILS

PROJECT No.

239078(2.12 & 2.13) - WAT -

DISCIPLINE

NUMBER

REV.

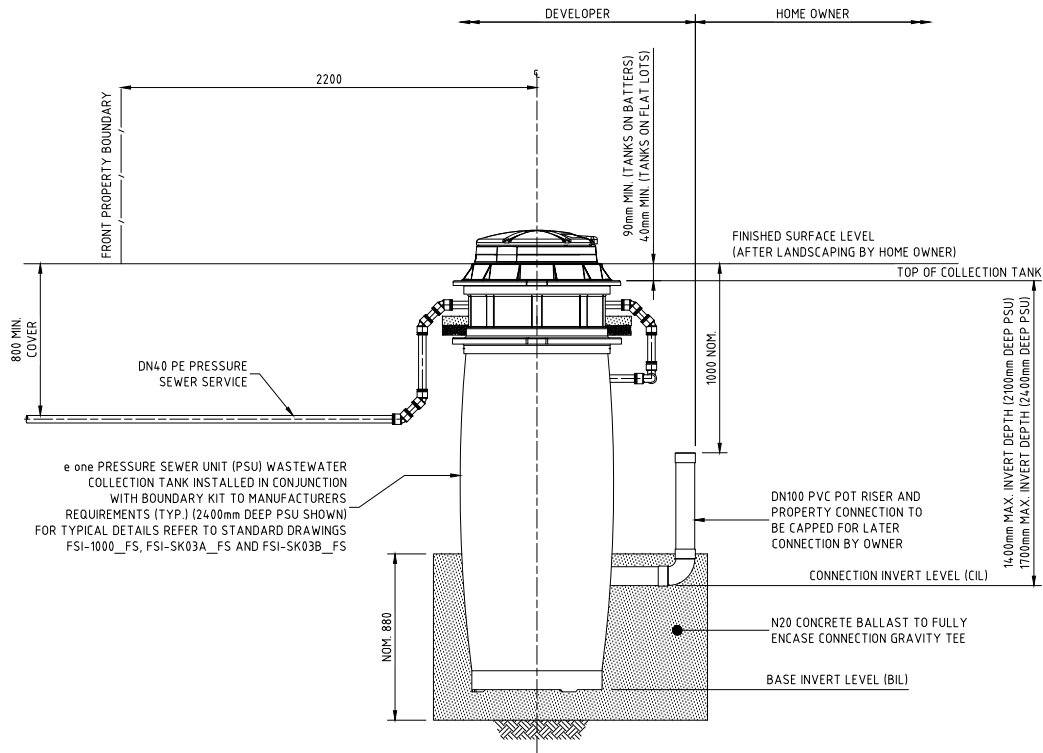
030

4



WASTEWATER COLLECTION TANK LEVELS				
LOT NUMBER	FINISHED SURFACE LEVEL (FSL)	TANK BASE INVERT LEVEL (BIL)	TANK CONNECTION INVERT LEVEL (CIL)	TANK HEIGHT
1301	27.16	25.24	25.84	2100
1302	27.70	25.78	26.38	2100
1303	29.31	27.39	27.99	2100
1304	30.17	28.30	28.90	2100
1305	31.59	29.72	30.32	2100
1306	31.89	30.02	30.62	2100
1307	33.02	31.15	31.75	2100
1308	33.30	31.43	32.03	2100
1309	33.88	32.01	32.61	2100
1310	EXISTING SERVICE CONNECTION - REFER TO STAGE 2.11 DESIGN DRAWINGS.			
1311	36.90	34.68	35.28	24.00
1312	37.40	35.18	35.78	24.00
1313	38.43	36.56	37.16	2100
1314	37.62	35.40	36.00	24.00
1315	36.39	34.52	35.12	2100
1316	36.34	34.12	34.72	24.00
1317	34.89	33.02	33.62	2100
1318	34.84	32.67	33.27	24.00
1319	33.39	31.52	32.12	2100
1320	EXISTING SERVICE CONNECTION - REFER TO STAGE 2.11 DESIGN DRAWINGS.			
1321	33.74	31.87	32.47	2100
1322	34.08	32.21	32.81	2100
1323	35.43	33.56	34.16	2100
1324	35.91	33.99	34.59	2100
1325	37.13	35.21	35.81	2100
1326	37.67	35.75	36.35	2100
1327	38.61	36.69	37.29	2100
1328	EXISTING SERVICE CONNECTION - REFER TO STAGE 2.15 DESIGN DRAWINGS.			
1329	39.92	38.00	38.60	2100
1330	39.40	37.48	38.08	2100
1331	38.02	36.10	36.70	2100
1332	37.56	35.64	36.24	2100
1333	36.13	34.21	34.81	2100
1334	35.85	33.63	34.23	24.00

WASTEWATER COLLECTION TANK  
TO BE PLACED IN REAR OF LOT

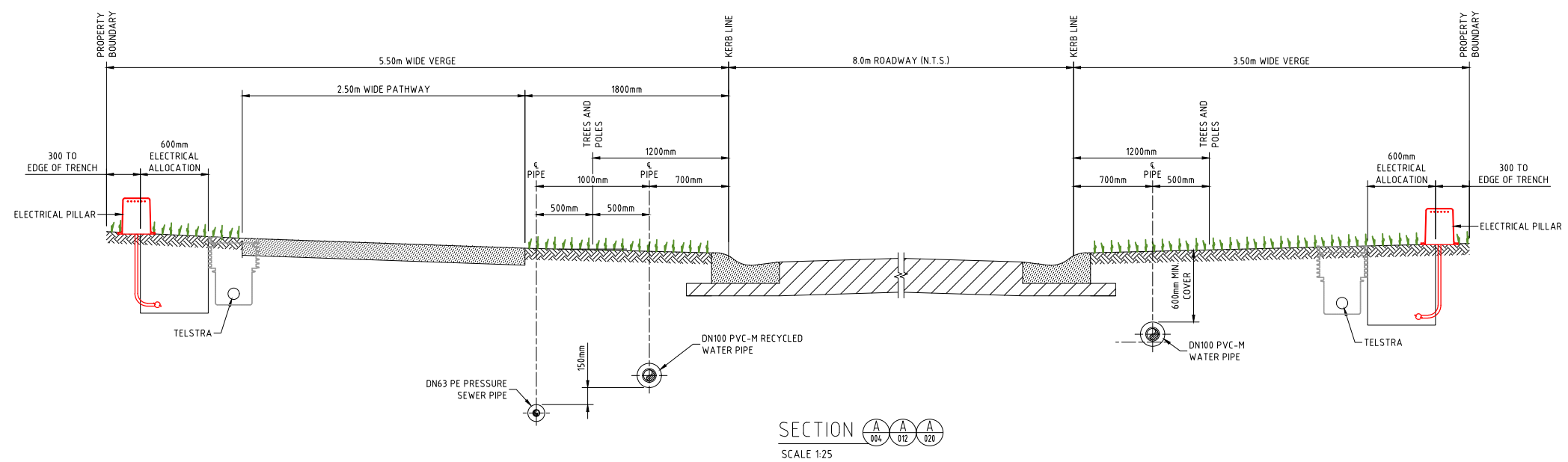


PRESSURE SEWER SERVICE CONNECTION  
TYPICAL SECTIONAL ELEVATION  
SCALE 1:20  
(SHOWN AS FRONT OF LOT SERVICE CONNECTION WITH 2400mm DEEP PSU)

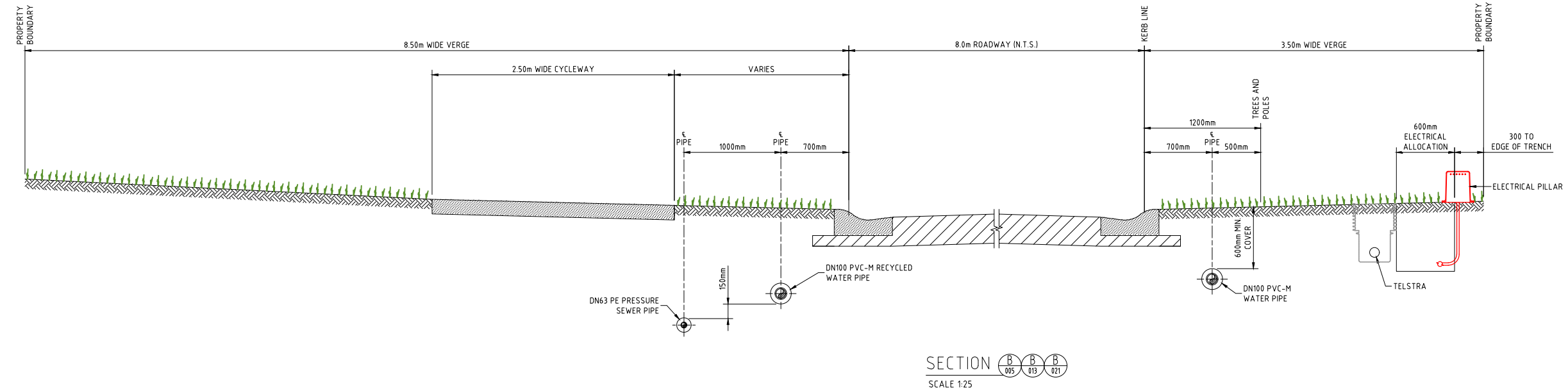
ADW Johnson Pty Ltd  
on behalf of  
Cooranbong Water  
Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES					CLIENT		PROPERTY DESCRIPTION PROPOSED SUBDIVISION PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015		PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		PLAN TITLE WASTEWATER COLLECTION TANK LEVEL DETAILS	
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.													
B	15.06.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.		<p>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</p>											
C	09.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N.	L.G.													
D	18.09.2019	AMENDED ISSUE - ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.													
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.													
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.		ALL DIMENSIONS ARE IN METRES. DO NOT SCALE											
2	24.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.													
3	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.													
4	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.Q.	H.M.	J.N.	C.B.													
DESIGN FILE N:\														SURVEYED ADW Johnson		DATUM A.H.D.		PROJECT No. 239078(2.12 & 2.13) - WAT -	
Plotted By: scotth Plot Date: 20/01/21 - 09:34 Cad File: \\jsrver10\Adw-Data\239078\Dwg\water & sewer design\precinct 2 water and sewer\stages 2.12 & 2.13\239078(2.12 & 2.13) - issue 4\239078(2.12 & 2.13)-WAT-028 to 031(4).dwg																		NUMBER 031	
																		REV. 4	



SECTION A A A  
004 012 028  
SCALE 1:25



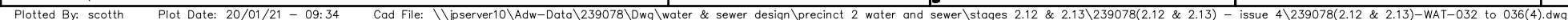
SECTION B B B  
005 013 021  
SCALE 1:25

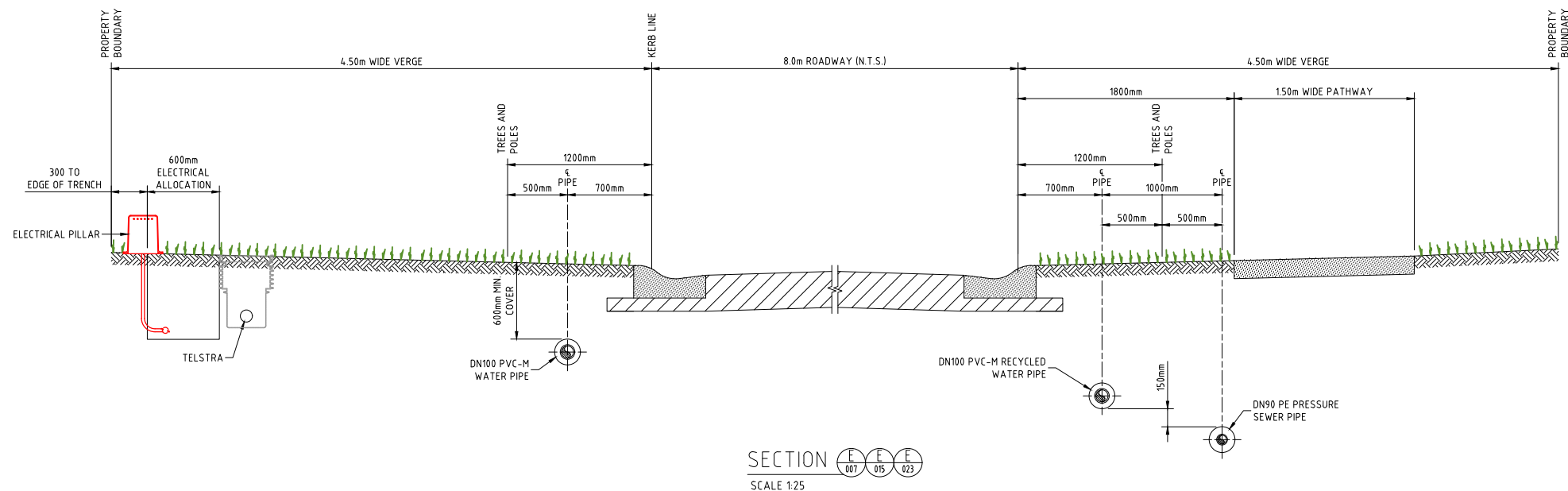
NOTE:  
1. FOR MINIMUM VERTICAL AND HORIZONTAL CLEARANCES REFER TO WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1. (SYDNEY WATER EDITION 2012).

ADW Johnson Pty Ltd  
on behalf of  
Cooranbong Water  
Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		<p>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</p>		CLIENT	PROPERTY DESCRIPTION		PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION						
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.						PROPOSED SUBDIVISION		PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PLAN TITLE	ROAD CROSS SECTIONS - SHEET 1					
B	15.06.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.										ADW Johnson	A.H.D.	PROJECT No.	DISCIPLINE	NUMBER	REV.
C	09.09.2019	AMENDED ISSUE - CLIENT COMMENTS	J.N.	L.G.	J.N.	L.G.															
D	18.09.2019	AMENDED ISSUE - ADJUSTED LIMIT OF WORKS	J.N.	L.G.	J.N.	L.G.															
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.															
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.															
2	24.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.															
3	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.															
4	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.															
DESIGN FILE: N:\												ALL DIMENSIONS ARE IN METRES. DO NOT SCALE									
Plot Path: \\server1\2\Adw_Plan\239078\Draw\239078(2.12 & 2.13) WAT - 032.dwg																					





NOTE:

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

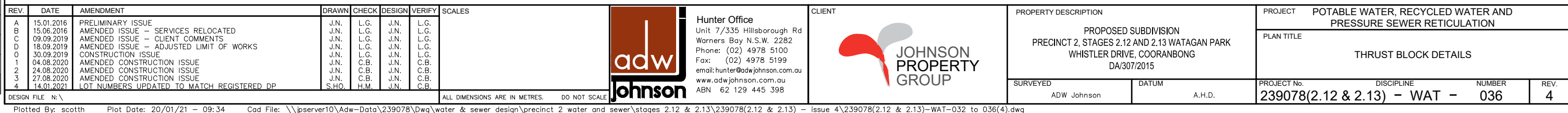
ADW Johnson Pty Ltd  
on behalf of

Cooranbong Water

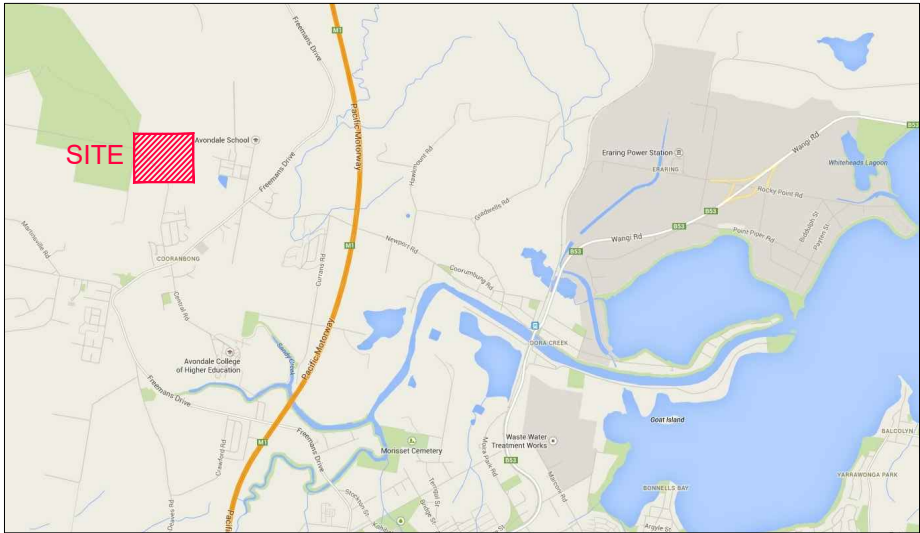
Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		<p>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</p>		CLIENT	PROPERTY DESCRIPTION		PROJECT			
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		PLAN TITLE															
		ROAD CROSS SECTIONS - SHEET 3															
DA/307/2015		PRECINCT 2, STAGES 2.12 AND 2.13 WATAGAN PARK WHISTLER DRIVE, COORANBONG		PROJECT No.		DISCIPLINE						NUMBER		REV.			
SURVEYED		DATUM		239078(2.12 & 2.13) - WAT -		034						4					
ADW Johnson		A.H.D.															



POTABLE WATER, RECYCLED WATER  
AND PRESSURE SEWER RETICULATION  
PROPOSED SUBDIVISION  
STAGE 2.15 WATAGAN PARK  
WHISTLER DRIVE, COORANBONG  
DA/307/2015





LOCALITY SKETCH  
NOT TO SCALE

DRAWING INDEX	
DRAWING NUMBER	DRAWING TITLE
239078(2.15)-WAT-001	COVER SHEET, LOCALITY PLAN AND DRAWING INDEX
239078(2.15)-WAT-002	GENERAL NOTES
239078(2.15)-WAT-003	OVERALL SITE PLAN
239078(2.15)-WAT-004	POTABLE WATER DETAIL PLAN - SHEET 1
239078(2.15)-WAT-005	POTABLE WATER DETAIL PLAN - SHEET 2
239078(2.15)-WAT-006	POTABLE WATER DETAIL PLAN - SHEET 3
239078(2.15)-WAT-007	POTABLE WATER DETAIL PLAN - SHEET 4
239078(2.15)-WAT-008	NOT USED
239078(2.15)-WAT-009	NOT USED
239078(2.15)-WAT-010	RECYCLED WATER DETAIL PLAN - SHEET 1
239078(2.15)-WAT-011	RECYCLED WATER DETAIL PLAN - SHEET 2
239078(2.15)-WAT-012	RECYCLED WATER DETAIL PLAN - SHEET 3
239078(2.15)-WAT-013	RECYCLED WATER DETAIL PLAN - SHEET 4
239078(2.15)-WAT-014	NOT USED
239078(2.15)-WAT-015	NOT USED
239078(2.15)-WAT-016	PRESSURE SEWER DETAIL PLAN - SHEET 1
239078(2.15)-WAT-017	PRESSURE SEWER DETAIL PLAN - SHEET 2
239078(2.15)-WAT-018	PRESSURE SEWER DETAIL PLAN - SHEET 3
239078(2.15)-WAT-019	PRESSURE SEWER DETAIL PLAN - SHEET 4
239078(2.15)-WAT-020	PRESSURE SEWER FLOW REDIRECTION DETAIL
239078(2.15)-WAT-021	NOT USED
239078(2.15)-WAT-022	TYPICAL PIPEWORK TRENCHING DETAILS
239078(2.15)-WAT-023	NOT USED
239078(2.15)-WAT-024	TYPICAL SERVICE CONNECTION DETAILS
239078(2.15)-WAT-025	WASTEWATER COLLECTION TANK LEVEL DETAILS
239078(2.15)-WAT-026	ROAD CROSS SECTIONS - SHEET 1
239078(2.15)-WAT-027	ROAD CROSS SECTIONS - SHEET 2
239078(2.15)-WAT-028	NOT USED
239078(2.15)-WAT-029	THRUST BLOCK DETAILS

ADW Johnson Pty Ltd  
on behalf of  
Coorانبong Water  
Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 <div>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</div>		CLIENT	PROPERTY DESCRIPTION		PROJECT		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION											
							PLAN TITLE																			
							COVER SHEET, LOCALITY PLAN AND DRAWING INDEX																			
DESIGN FILE N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				SURVEYED		ADW Johnson		DATUM		A.H.D.		PROJECT No.		DISCIPLINE		NUMBER		REV.	
											239078(2.15)		- WAT -		001		3									

GENERAL NOTES:

- 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.
- 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.
- 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.
- DURING CONSTRUCTION ALL OPEN ENDS OF PIPES SHALL BE CAPPED TO PREVENT ENTRY OF FOREIGN MATTER.
- ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO COORANBONG WATER REQUIREMENTS.
- MAKE SMOOTH TRANSITION TO EXISTING INFRASTRUCTURE (ROAD PAVEMENT, KERBS, FOOTPATHS, ETC.) TO LAKE MACQUARIE CITY COUNCIL AND SUPERINTENDENT'S SATISFACTION.
- SUITABLE PROTECTION TO EXISTING INFRASTRUCTURE (ROAD PAVEMENT, KERBS, FOOTPATHS, ETC.) IS TO BE PROVIDED DURING DURATION OF CONSTRUCTION.
- 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.
- 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.
- 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.
- 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.
- ANY WORKS NOT COVERED BY THE SPECIFICATION OR THIS DRAWING SET ARE TO BE REFERRED TO THE SUPERINTENDENT.
- 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.
- ALL PIPE BEDDING MATERIAL TO COMPLY WITH WSAA PRODUCT SPECIFICATION WSA-PS350 AND WSA PS351.

POTABLE WATER AND RECYCLED WATER NOTES:

- 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.
- 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.
- CLEARANCES SHOWN TO OTHER PIPES HAVE BEEN CALCULATED FROM THE COLLAR.
- ALL PRODUCTS AND MATERIALS TO BE SELECTED FROM THE COORANBONG WATER APPROVED PRODUCTS AND MATERIALS REGISTER.
- 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.
- HYDRANTS MUST NOT BE POSITIONED IN DRIVEWAYS OR TAPPING POINTS. HYDRANTS NOMINALLY AT LEAST 5m FROM EACH BOUNDARY OR ON BOUNDARIES.
- 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.
- 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.
- 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.
- ALL POTABLE WATERMAINS SHALL BE PLAIN BLUE PVC-M (PN16).
- ALL RECYCLED WATERMAINS SHALL BE LILAC PVC-M (PN16).
- 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.
- FOR THRUST BLOCK DETAILS REFER TO DRG-027.
- 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.
- 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.
- 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.
- 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.
- MAXIMUM PIPE COVER SHALL BE 1500mm UNLESS SPECIFIED ON THE DESIGN DRAWINGS OR APPROVAL IS OBTAINED FROM THE COORANBONG WATER REPRESENTATIVE.
- ALL MAINS LAID IN TRAFFICABLE CARRIAGEWAYS SHALL BE BACKFILLED WITH 16:1 STABILISED SAND CEMENT TO SUBGRADE LEVEL ONLY.
- 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.
- POTABLE AND RECYCLED WATERMAIN FITTINGS ARE TO BE STAGGERED.
- MAXIMUM JOINT DEFLECTIONS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- EACH PROPERTY SERVICE CONNECTION IS TO BE FLUSHED AND LOCKED FOLLOWING PRESSURE TESTING.
- SCOUR VALVES TO BE CONNECTED TO LOCAL STORMWATER SYSTEM.
- POTABLE WATER IS TO BE UTILISED FOR FIRE FIGHTING PURPOSES.
- HYDRANT SURFACE BOXES TO BE YELLOW (POTABLE WATER) AND LILAC (RECYCLED WATER).

PRESSURE SEWER NOTES:

- 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.
- 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.
- PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007.
- ALL POLYETHYLENE MAINS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- ALL MAINS LAID IN TRAFFICABLE CARRIAGEWAYS SHALL BE BACKFILLED WITH 16:1 STABILISED SAND CEMENT TO SUBGRADE LEVEL ONLY.
- ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
- ALL HOUSE SERVICE LATERALS SHALL BE DN40 PE 100 PN16.
- DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
- ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (ROADWAYS, PATHS) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- ALL PRESSURE SEWER VALVES SHALL BE RESILIENT SEATED SLUICE GATE VALVES (CLOCKWISE CLOSING) AND SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207.
- 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.
- 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).
- 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.
- 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).
- 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).
- ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.

ADW Johnson Pty Ltd  
on behalf of  
Cooranbong Water  
Date Approved: 30/09/2019

AS CONSTRUCTED

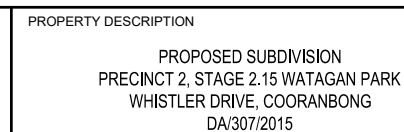
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 <div>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</div>	CLIENT		PROPERTY DESCRIPTION		PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION				
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	PROPOSED SUBDIVISION PRECINCT 2, STAGE 2.15 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015		JOHNSON PROPERTY GROUP		PLAN TITLE						
B	23.05.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.											
C	31.05.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.											
D	24.09.2019	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.											
O	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.				GENERAL NOTES							
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.											
2	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.											
3	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.HO.	H.M.	J.N.	C.B.											
DESIGN FILE N:\								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE									



SCALE 1:1500



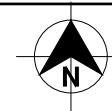
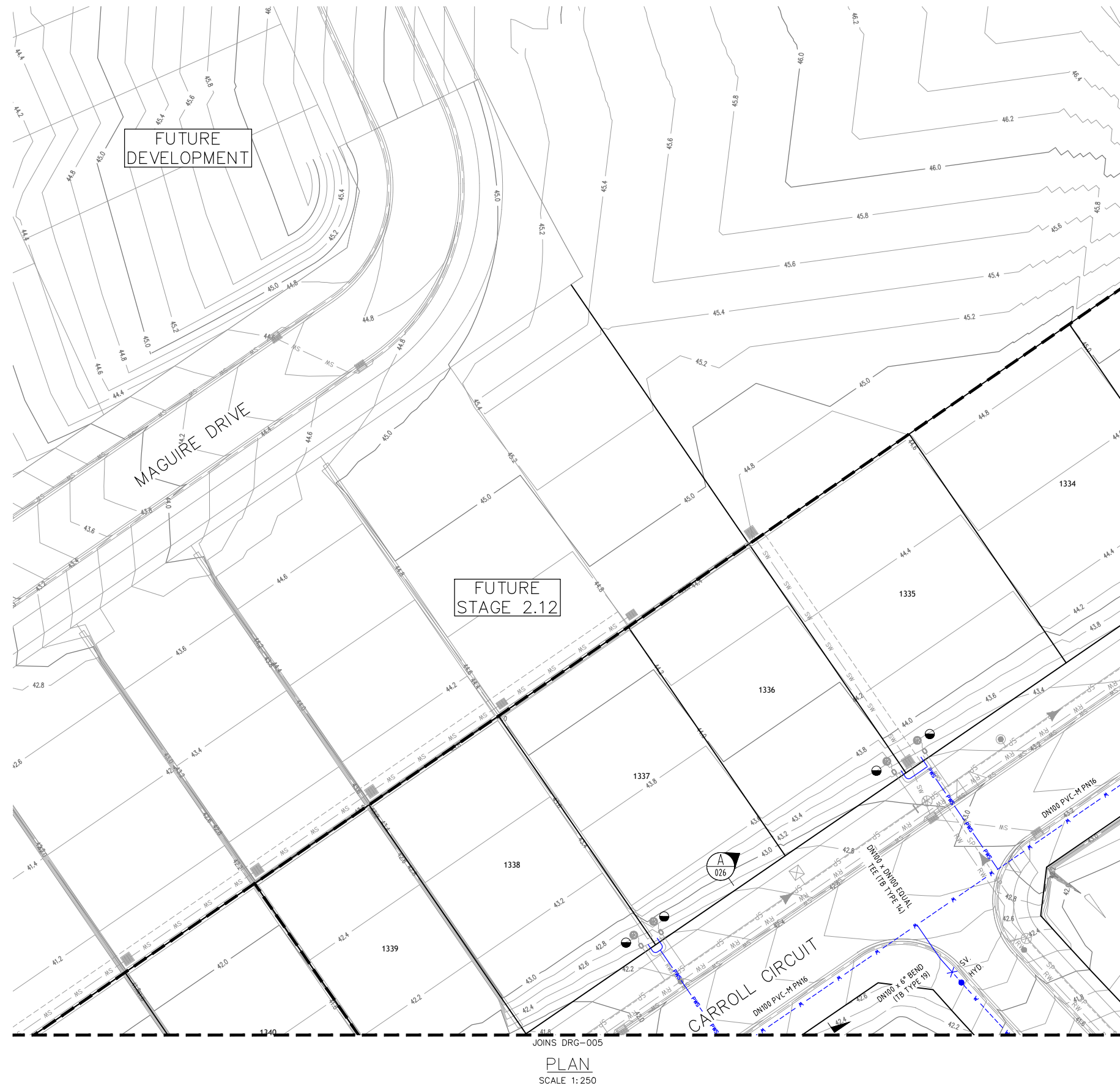
CLIENT



PLAN TITLE	
------------	--

PROJECT No.	DISCIPLINE	NUMBER	REV
239078(2 15)	- WAT -	003	3

ADW Johnson Pty Ltd  
on behalf of  
**Cooranbong**  Water  
Date Approved: 30/09/2019



LEGEND	
W	PVC-M POTABLE WATER RETICULATION
PWS	POTABLE WATER PROPERTY SERVICE
RW	PVC-M RECYCLED WATER RETICULATION
RWS	RECYCLED WATER PROPERTY SERVICE
SP	PE PRESSURE SEWER RETICULATION
T	TELSTRA
E	UNDERGROUND POWER
S/W	STORMWATER PIPEWORK
SV	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

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
TOTAL 17 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 2 x SHORT SIDE
    - 1 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 2 x SHORT SIDE
    - 5 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	262

- NOTES:**
1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-010 TO 013.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-016 TO 019.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-024.

ADW Johnson Pty Ltd  
on behalf of

Coorabong Water

Date Approved: 30/09/2019

**AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	0 5 10 A1 / A3
B	23.05.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	1:250 / 1:500
C	31.05.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
D	24.09.2019	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
O	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
2	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
3	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.	

DESIGN FILE N:\ ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

**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**

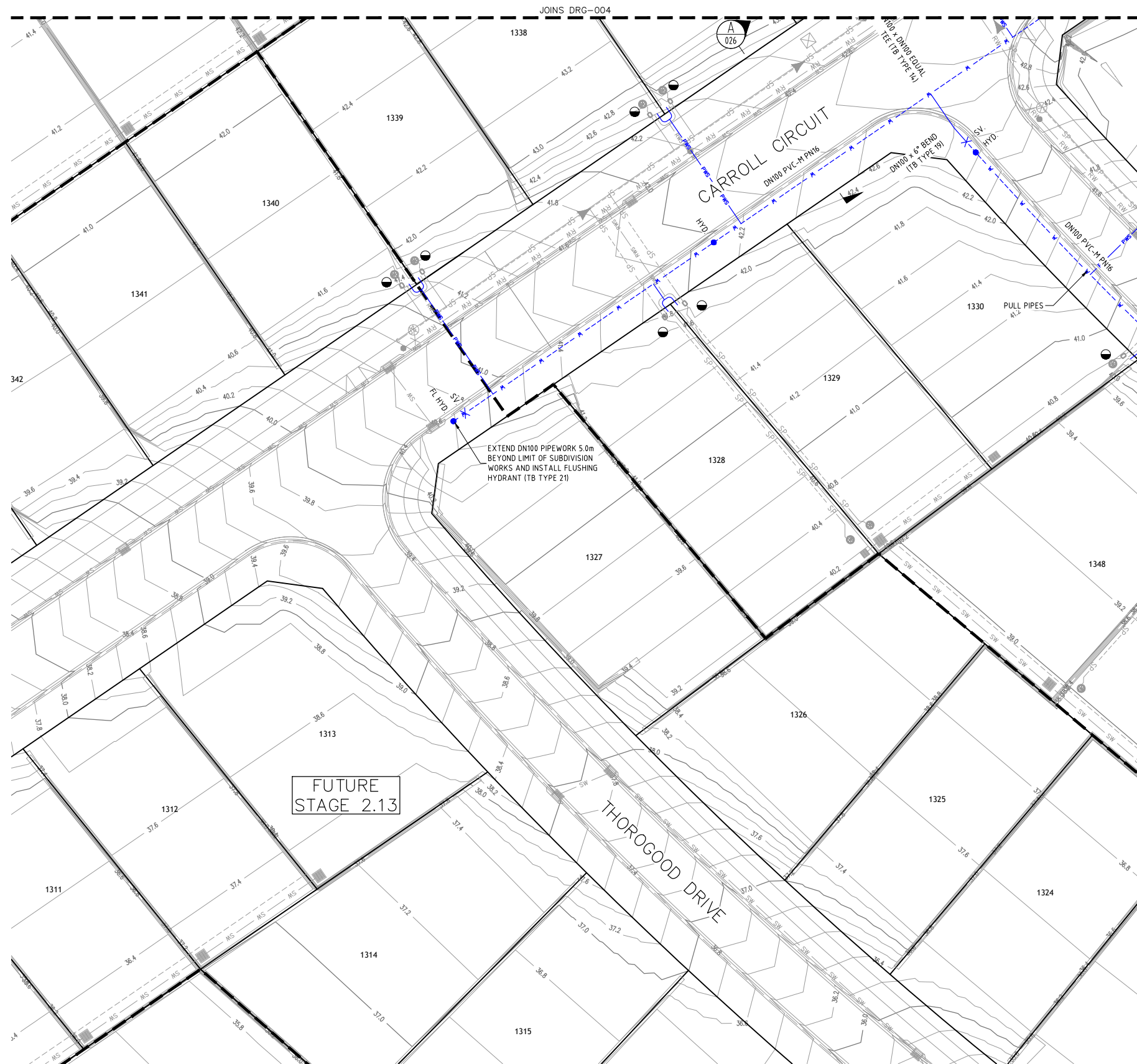
PROPERTY DESCRIPTION  
PROPOSED SUBDIVISION  
PRECINCT 2, STAGE 2.15 WATAGAN PARK  
WHISTLER DRIVE, COORABONG  
DA/307/2015

SURVEYED ADW Johnson DATUM A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE  
POTABLE WATER DETAIL PLAN  
- SHEET 1

PROJECT No. 239078(2.15) DISCIPLINE - WAT - NUMBER 004 REV. 3



PLAN  
SCALE 1:250



LEGEND	
	PVC-M POTABLE WATER RETICULATION
	POTABLE WATER PROPERTY SERVICE
	PVC-M RECYCLED WATER RETICULATION
	RECYCLED WATER PROPERTY SERVICE
	PE PRESSURE SEWER RETICULATION
	TELSTRA
	UNDERGROUND POWER
	STORMWATER PIPEWORK
	STOP VALVE
	HYDRANT
	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

- POTABLE WATER PROPERTY SERVICE CONNECTIONS  
TOTAL 17 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 2 x SHORT SIDE
    - 1 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 2 x SHORT SIDE
    - 5 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	262

- NOTES:
1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-010 TO 013.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-016 TO 019.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-024.

ADW Johnson Pty Ltd  
on behalf of

Coorانبong Water

Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	0 5 10 A1 / A3
B	23.05.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	1:250 / 1:500
C	31.05.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
D	24.09.2019	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
O	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
2	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
3	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.	

**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

CLIENT

**JOHNSON PROPERTY GROUP**

PROPERTY DESCRIPTION

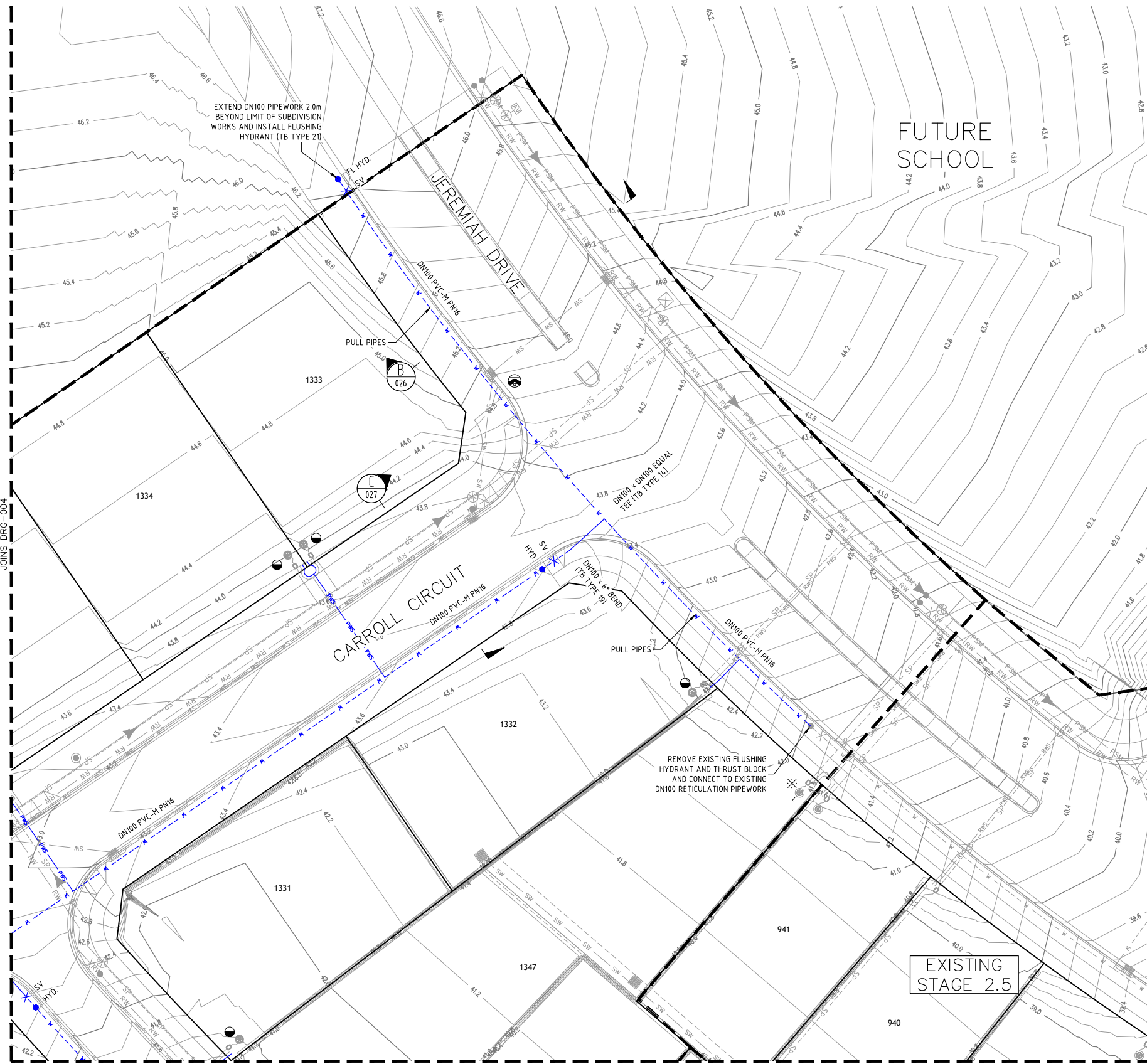
PROPOSED SUBDIVISION  
PRECINCT 2, STAGE 2.15 WATAGAN PARK  
WHISTLER DRIVE, COORANBONG  
DA/307/2015

SURVEYED ADW Johnson DATUM A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE POTABLE WATER DETAIL PLAN - SHEET 2

PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(2.15)	- WAT -	005	3



PLAN  
SCALE 1:250



LEGEND	
	PVC-M POTABLE WATER RETICULATION
	POTABLE WATER PROPERTY SERVICE
	PVC-M RECYCLED WATER RETICULATION
	RECYCLED WATER PROPERTY SERVICE
	PE PRESSURE SEWER RETICULATION
	TELSTRA
	UNDERGROUND POWER
	STORMWATER PIPEWORK
	STOP VALVE
	HYDRANT
	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

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
TOTAL 17 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 2 x SHORT SIDE
    - 1 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 2 x SHORT SIDE
    - 5 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	262

- NOTES:
1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-010 TO 013.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-016 TO 019.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-024.

ADW Johnson Pty Ltd  
on behalf of

Coorانبong Water

Date Approved: 30/09/2019

**AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	
B	23.05.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	
C	31.05.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
D	24.09.2019	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
O	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
2	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
3	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.	

**Johnson**

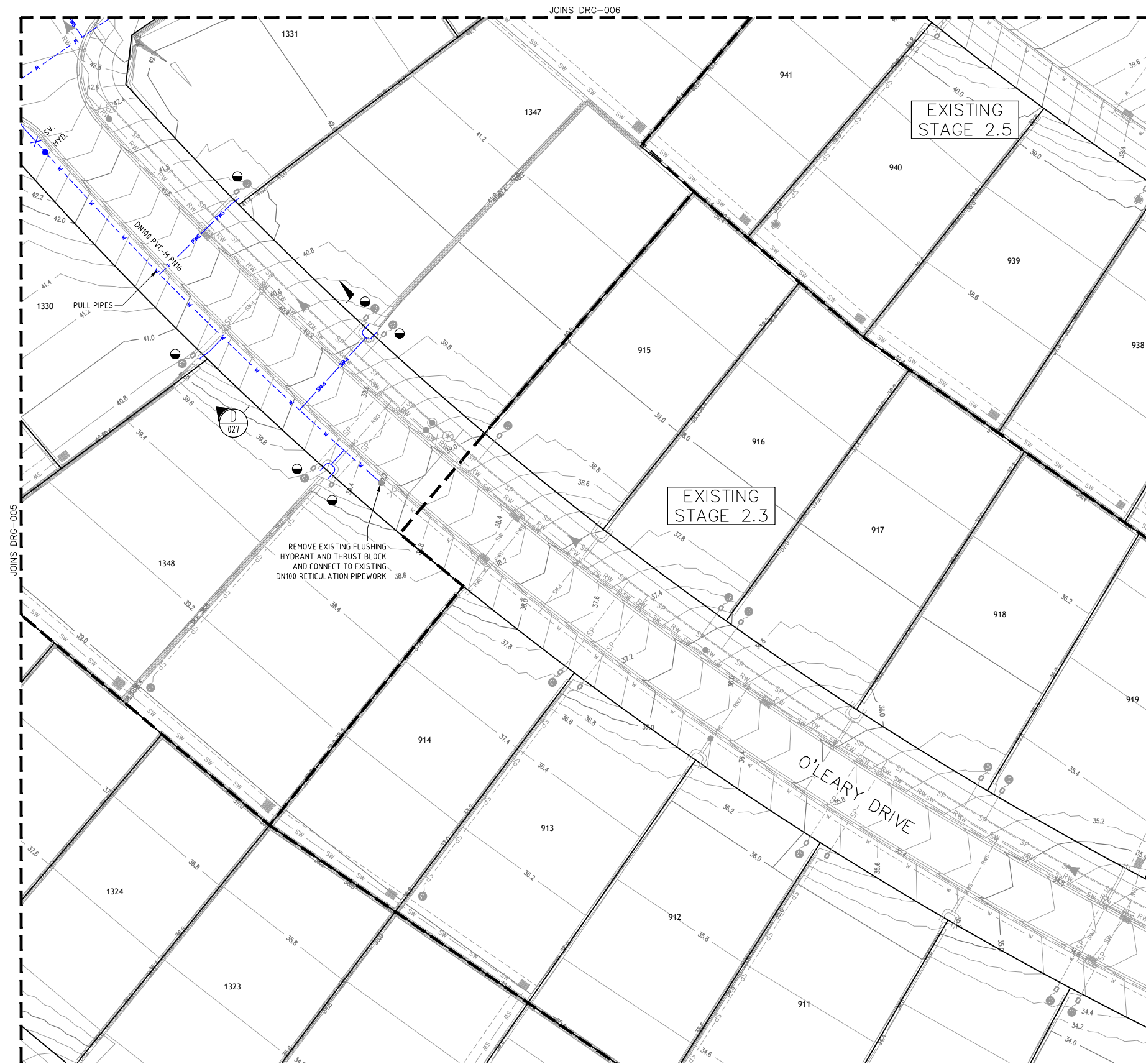
Hunter Office  
Unit 7/335 Hillsborough Rd  
Warners Bay N.S.W. 2282  
Phone: (02) 4978 5100  
Fax: (02) 4978 5199  
email: hunter@adwjohnson.com.au  
www.adwjohnson.com.au  
ABN 62 129 445 398

CLIENT

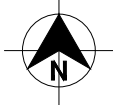
**JOHNSON  
PROPERTY  
GROUP**

PROPERTY DESCRIPTION	
PROPOSED SUBDIVISION PRECINCT 2, STAGE 2.15 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	
SURVEYED	DATUM
ADW Johnson	A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
PLAN TITLE			
POTABLE WATER DETAIL PLAN - SHEET 3			
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(2.15)	- WAT -	006	3



PLAN  
SCALE 1:250



LEGEND	
	PVC-M POTABLE WATER RETICULATION
	POTABLE WATER PROPERTY SERVICE
	PVC-M RECYCLED WATER RETICULATION
	RECYCLED WATER PROPERTY SERVICE
	PE PRESSURE SEWER RETICULATION
	TELSTRA
	UNDERGROUND POWER
	STORMWATER PIPEWORK
	STOP VALVE
	HYDRANT
	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

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
TOTAL 17 CONNECTIONS  
• SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V  
- 2 x SHORT SIDE  
- 1 x LONG SIDE  
• SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V  
- 2 x SHORT SIDE  
- 5 x LONG SIDE

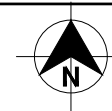
POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	262

- NOTES:  
1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-010 TO 013.  
2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-016 TO 019.  
3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-024.

ADW Johnson Pty Ltd  
on behalf of  
**Coorانبong + Water**  
Date Approved: 30/09/2019

**AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		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		CLIENT	PROPERTY DESCRIPTION  PROPOSED SUBDIVISION PRECINCT 2, STAGE 2.15 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION						
							 1:250 / 1:500						PLAN TITLE  POTABLE WATER DETAIL PLAN - SHEET 4	PROJECT No. 239078(2.15)	DISCIPLINE - WAT -	NUMBER 007	REV. 3		
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.													
B	23.05.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.													
C	31.05.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.													
D	24.09.2019	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.													
O	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.													
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.													
2	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.													
3	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.													
DESIGN FILE N:\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE												

**LEGEND**

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

**RECYCLED WATER PROPERTY SERVICE CONNECTIONS**

- TOTAL 17 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 1 x SHORT SIDE
    - 2 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 5 x SHORT SIDE
    - 2 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	282

**NOTES:**

1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-016 TO 019.
3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-024.

ADW Johnson Pty Ltd  
on behalf of

Coorabong + Water

Date Approved: 30/09/2019

**AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	0 5 10 A1 / A3
B	23.05.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	1:250 / 1:500
C	31.05.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
D	24.09.2019	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
O	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
2	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
3	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.	

DESIGN FILE N:\



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



PROPERTY DESCRIPTION  
PROPOSED SUBDIVISION  
PRECINCT 2, STAGE 2.15 WATAGAN PARK  
WHISTLER DRIVE, COORABONG  
DA/307/2015

SURVEYED  
ADW Johnson

DATUM  
A.H.D.

PROJECT  
POTABLE WATER, RECYCLED WATER AND  
PRESSURE SEWER RETICULATION

PLAN TITLE  
RECYCLED WATER DETAIL PLAN  
- SHEET 1

PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(2.15)	- WAT -	010	3



PLAN  
SCALE 1:250



LEGEND	
	PVC-M RECYCLED WATER RETICULATION
	RECYCLED WATER PROPERTY SERVICE
	PVC-M POTABLE WATER RETICULATION
	POTABLE WATER PROPERTY SERVICE
	PE PRESSURE SEWER RETICULATION
	TELSTRA
	UNDERGROUND POWER
	STORMWATER PIPEWORK
	STOP VALVE
	HYDRANT
	FLUSHING HYDRANT
	PROPERTY SERVICE CONNECTION
	EXISTING PROPERTY SERVICE CONNECTION
	LAY RECYCLED WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
	LIMIT OF SUBDIVISION WORKS

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS
- TOTAL 17 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 1 x SHORT SIDE
    - 2 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 5 x SHORT SIDE
    - 2 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	282

- NOTES:
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-016 TO 019.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-024.

ADW Johnson Pty Ltd  
on behalf of

Coorانبong Water

Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	0 5 10 A1 / A3
B	23.05.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	1:250 / 1:500
C	31.05.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
D	24.09.2019	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
O	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
2	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
3	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.	

DESIGN FILE N:\  
Plotted By: scotch Plot Date: 20/01/21 - 09:41 Cad File: N:\239078\Wg\water & sewer design\precinct 2 water and sewer\Stage 2.15\239078(2.15)-issue 3\239078(2.15)-WAT-010 to 015(3).dwg

**adw Johnson**

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

CLIENT

**JOHNSON PROPERTY GROUP**

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
PRECINCT 2, STAGE 2.15 WATAGAN PARK  
WHISTLER DRIVE, COORANBONG  
DA/307/2015

SURVEYED ADW Johnson DATUM A.H.D.

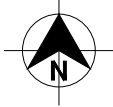
PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE RECYCLED WATER DETAIL PLAN - SHEET 2

PROJECT No. 239078(2.15) DISCIPLINE - WAT - NUMBER 011 REV. 3



PLAN  
SCALE 1:250



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

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS
- TOTAL 17 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 1 x SHORT SIDE
    - 2 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 5 x SHORT SIDE
    - 2 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	282

- NOTES:
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-016 TO 019.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-024.

ADW Johnson Pty Ltd  
on behalf of

Coorانبong Water

Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	0 5 10 A1 / A3
B	23.05.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	1:250 / 1:500
C	31.05.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
D	24.09.2019	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
O	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
2	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
3	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.	

**adw Johnson**

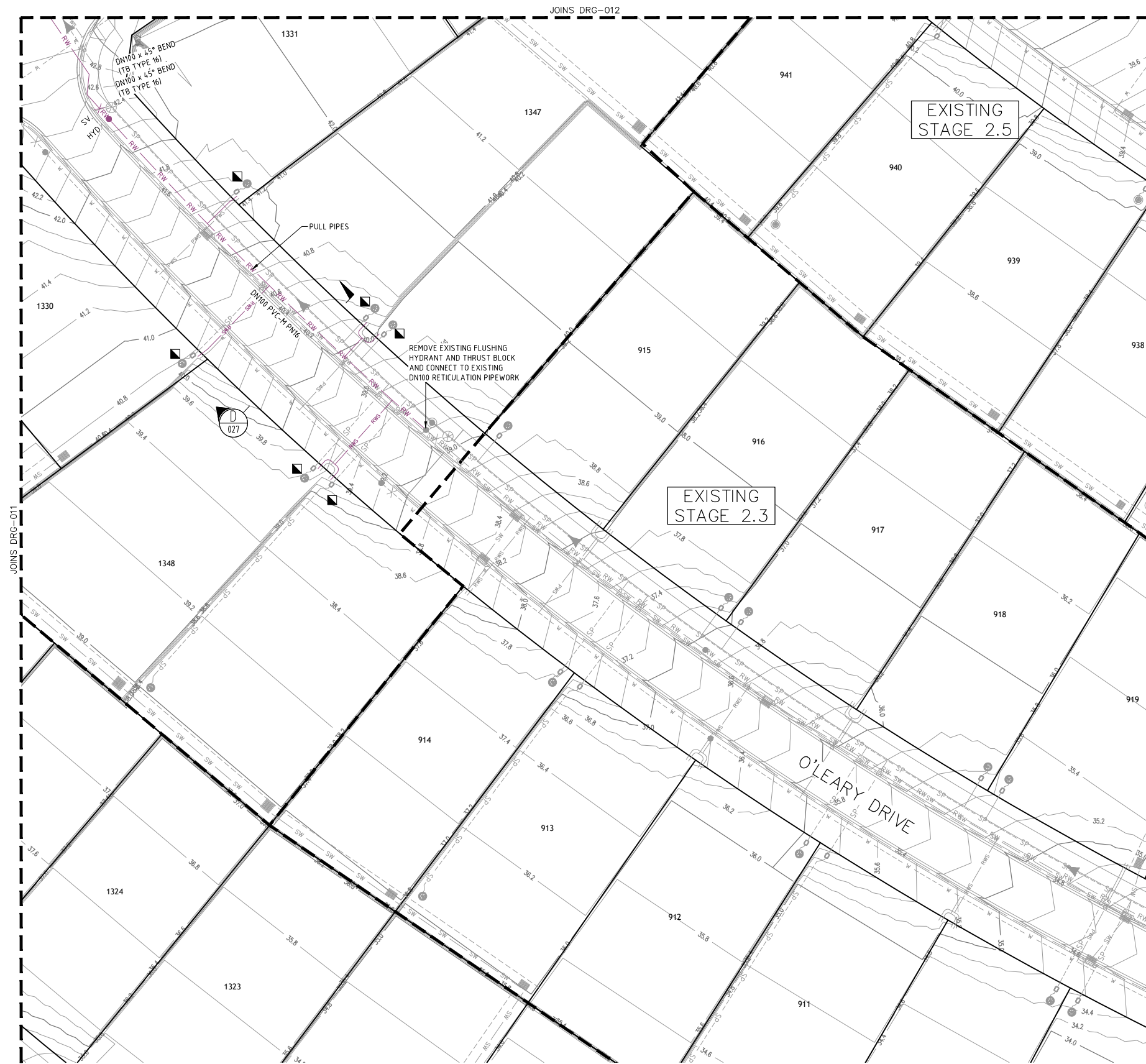
Hunter Office  
Unit 7/335 Hillsborough Rd  
Warners Bay N.S.W. 2282  
Phone: (02) 4978 5100  
Fax: (02) 4978 5199  
email: hunter@adwjohnson.com.au  
www.adwjohnson.com.au  
ABN 62 129 445 398

CLIENT

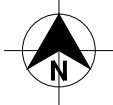
**JOHNSON PROPERTY GROUP**

PROPERTY DESCRIPTION	
PROPOSED SUBDIVISION PRECINCT 2, STAGE 2.15 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015	
SURVEYED	DATUM
ADW Johnson	A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
PLAN TITLE RECYCLED WATER DETAIL PLAN - SHEET 3			
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(2.15)	- WAT -	012	3



PLAN  
SCALE 1:250



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

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS
- TOTAL 17 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 1 x SHORT SIDE
    - 2 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 5 x SHORT SIDE
    - 2 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	282

- NOTES:
1. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-016 TO 019.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-024.

ADW Johnson Pty Ltd  
on behalf of

Coorانبong Water

Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	
B	23.05.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	
C	31.05.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
D	24.09.2019	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
O	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
2	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
3	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.	

DESIGN FILE N:\

Plotted By: scotth Plot Date: 20/01/21 - 09:41 Cad File: N:\239078\Drawings\water & sewer design\precinct 2 water and sewer\Stage 2.15\239078(2.15)-issue 3\239078(2.15)-WAT-010 to 015(3).dwg

**adw Johnson**

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

CLIENT

**JOHNSON PROPERTY GROUP**

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
PRECINCT 2, STAGE 2.15 WATAGAN PARK  
WHISTLER DRIVE, COORANBONG  
DA/307/2015

SURVEYED ADW Johnson

DATUM A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE RECYCLED WATER DETAIL PLAN - SHEET 4

PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(2.15)	- WAT -	013	3



LEGEND	
SP	PE PRESSURE SEWER RETICULATION
W	PVC-M POTABLE WATER RETICULATION
PWS	POTABLE WATER PROPERTY SERVICE
RW	PVC-M RECYCLED WATER RETICULATION
RWS	RECYCLED WATER PROPERTY SERVICE
T	TELSTRA
E	UNDERGROUND POWER
S/W	STORMWATER PIPEWORK
IV	ISOLATION VALVE
IV (N.C)	ISOLATION VALVE (NORMALLY CLOSED)
FP	FLUSHING POINT
	WASTEWATER COLLECTION TANK AND BOUNDARY KIT
	PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
	PROPERTY SERVICE CONNECTION
	EXISTING PROPERTY SERVICE CONNECTION
	LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
	LAY PRESSURE SEWER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
	LIMIT OF SUBDIVISION WORKS

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS  
TOTAL 17 CONNECTIONS  
• SINGLE SERVICES  
- 11 x SHORT SIDE  
- 6 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN180	PE100 PN16	72
DN90	PE100 PN16	81
DN75	PE100 PN16	56
DN63	PE100 PN16	67

- NOTES:
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-010 AND 013.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-024.
  - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
  - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
  - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
  - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
  - DN280 AND DN250 PE PRESSURE SEWER MAIN TO BE LAID TO GRADE.

ADW Johnson Pty Ltd  
on behalf of  
Coorانبong Water  
Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	0 5 10 A1 / A3
B	23.05.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	1:250 / 1:500
C	31.05.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
D	24.09.2019	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
2	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
3	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.	

DESIGN FILE N:\

Plotted By: scott Plot Date: 20/01/21 - 09:43 Cad File: N:\239078\Wdg\water & sewer design\precinct 2 water and sewer\Stage 2.15\239078(2.15)-issue 3\239078(2.15)-WAT-016 to 021(3).dwg

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



CLIENT

JOHNSON  
PROPERTY  
GROUP

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
PRECINCT 2, STAGE 2.15 WATAGAN PARK  
WHISTLER DRIVE, COORANBONG  
DA/307/2015

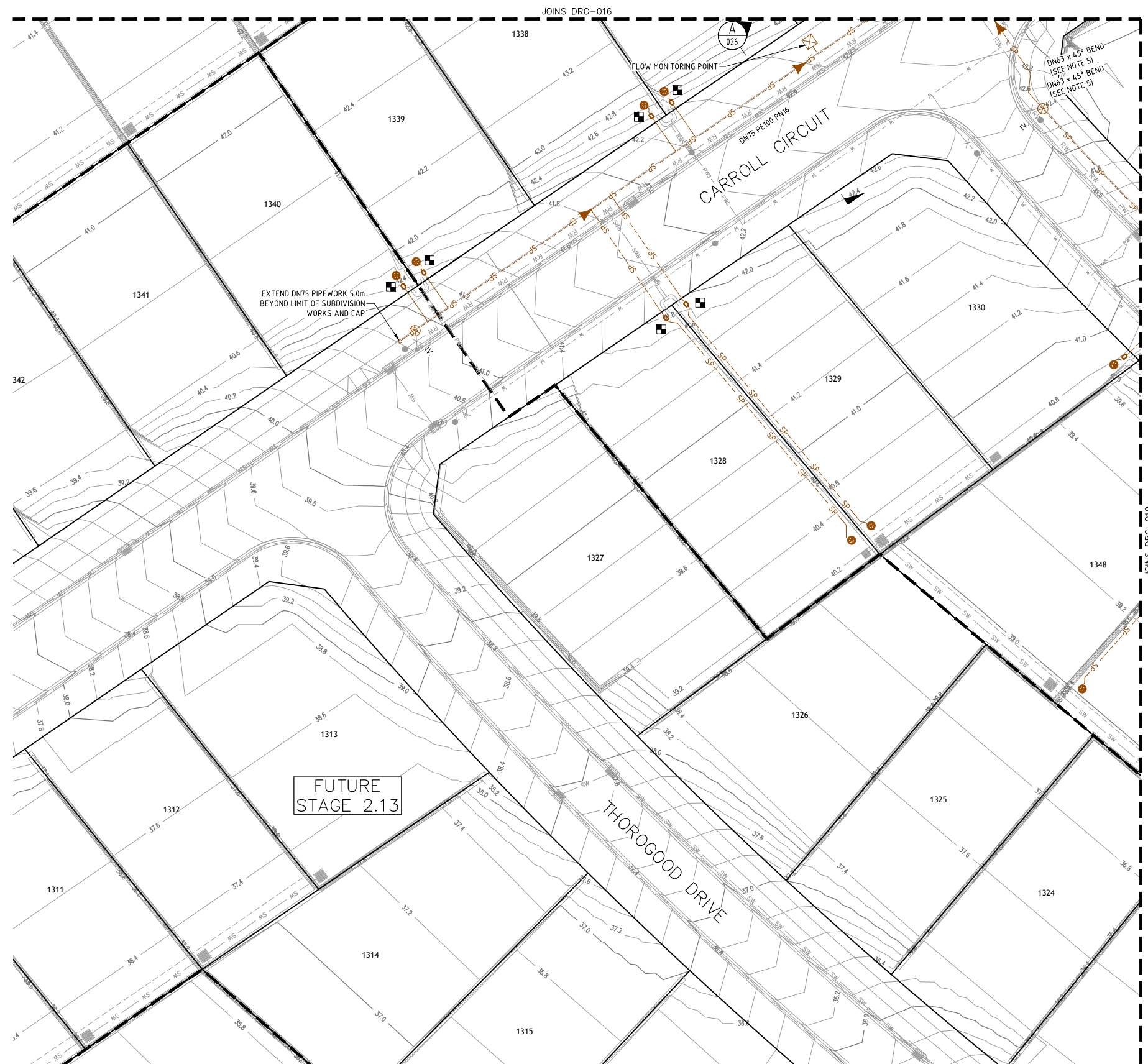
SURVEYED ADW Johnson DATUM A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND  
PRESSURE SEWER RETICULATION

PLAN TITLE

PRESSURE SEWER DETAIL PLAN  
- SHEET 1

PROJECT No. 239078(2.15) DISCIPLINE - WAT - NUMBER 016 REV. 3



LEGEND	
	PE PRESSURE SEWER RETICULATION
	PVC-M POTABLE WATER RETICULATION
	POTABLE WATER PROPERTY SERVICE
	PVC-M RECYCLED WATER RETICULATION
	RECYCLED WATER PROPERTY SERVICE
	TELSTRA
	UNDERGROUND POWER
	STORMWATER PIPEWORK
	ISOLATION VALVE
	ISOLATION VALVE (NORMALLY CLOSED)
	FLUSHING POINT
	WASTEWATER COLLECTION TANK AND BOUNDARY KIT
	PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
	PROPERTY SERVICE CONNECTION
	EXISTING PROPERTY SERVICE CONNECTION
	LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
	LAY PRESSURE SEWER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
	LIMIT OF SUBDIVISION WORKS

■ **PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**  
TOTAL 17 CONNECTIONS  
• SINGLE SERVICES  
- 11 x SHORT SIDE  
- 6 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN180	PE100 PN16	72
DN90	PE100 PN16	81
DN75	PE100 PN16	56
DN63	PE100 PN16	67

- NOTES:
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-010 AND 013.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-024.
  - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
  - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
  - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
  - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
  - DN280 AND DN250 PE PRESSURE SEWER MAIN TO BE LAID TO GRADE.

ADW Johnson Pty Ltd  
on behalf of

Coorانبong + Water

Date Approved: 30/09/2019

**AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	0 5 10 A1 / A3
B	23.05.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	1:250 / 1:500
C	31.05.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
D	24.09.2019	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
2	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
3	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.	

DESIGN FILE N:\



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



PROPERTY DESCRIPTION  
PROPOSED SUBDIVISION  
PRECINCT 2, STAGE 2.15 WATAGAN PARK  
WHISTLER DRIVE, COORANBONG  
DA/307/2015

SURVEYED  
ADW Johnson

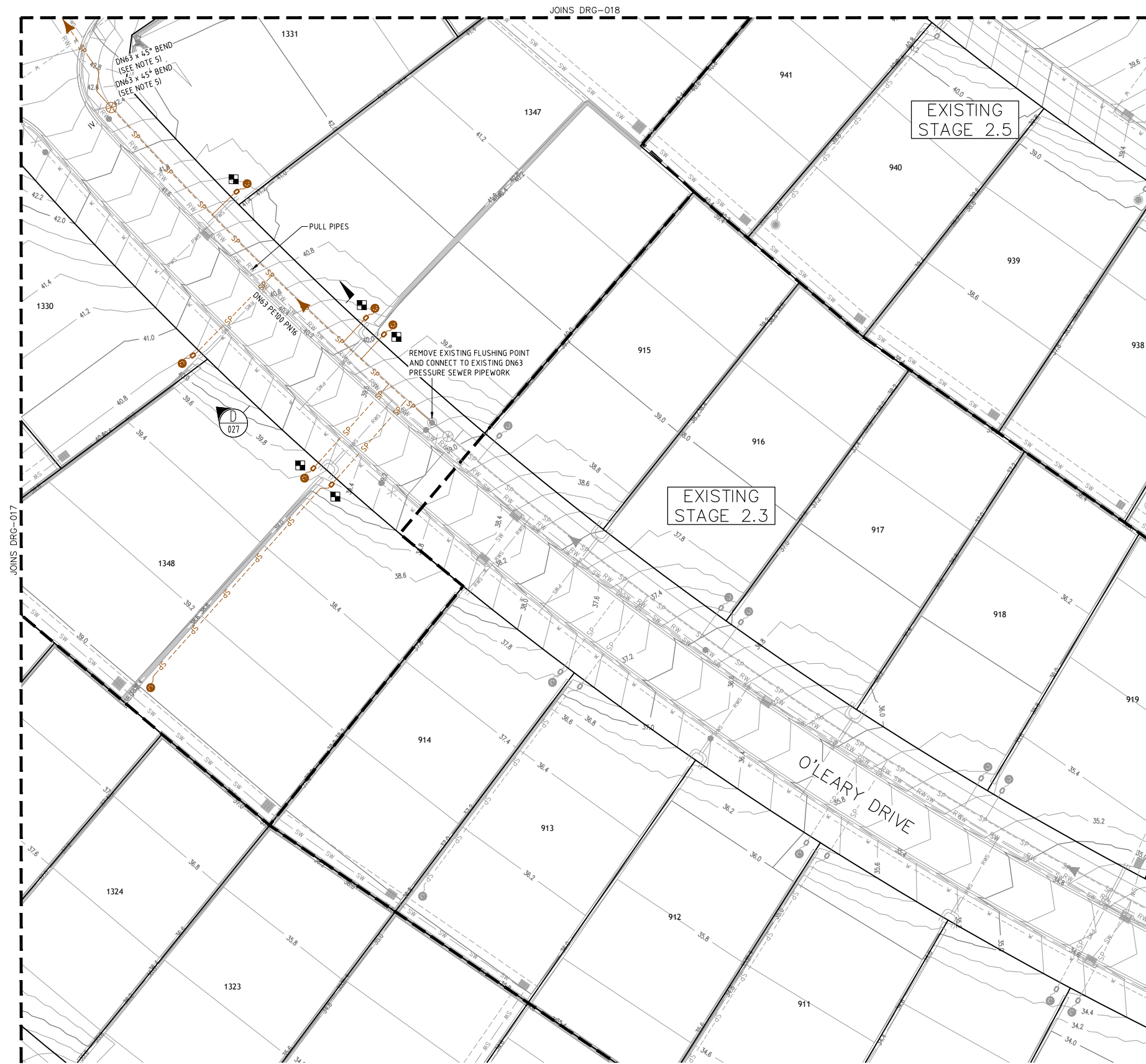
DATUM  
A.H.D.

PROJECT  
POTABLE WATER, RECYCLED WATER AND  
PRESSURE SEWER RETICULATION

PLAN TITLE  
PRESSURE SEWER DETAIL PLAN  
- SHEET 2

PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(2.15)	- WAT -	017	3





PLAN  
SCALE 1:250

**LEGEND**

- SP --- SP --- PE PRESSURE SEWER RETICULATION
- W --- W --- PVC-M POTABLE WATER RETICULATION
- PWS --- PWS --- POTABLE WATER PROPERTY SERVICE
- RW --- RW --- PVC-M RECYCLED WATER RETICULATION
- RWS --- RWS --- RECYCLED WATER PROPERTY SERVICE
- T --- T --- TELSTRA
- E --- E --- UNDERGROUND POWER
- S/W --- S/W --- STORMWATER PIPEWORK
- IV. --- ISOLATION VALVE
- IV. (N.C.) --- ISOLATION VALVE (NORMALLY CLOSED)
- FP. --- FLUSHING POINT
- WASTEWATER COLLECTION TANK AND BOUNDARY KIT
- PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
- PROPERTY SERVICE CONNECTION
- EXISTING PROPERTY SERVICE CONNECTION
- LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- LAY PRESSURE SEWER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- LIMIT OF SUBDIVISION WORKS

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**  
TOTAL 17 CONNECTIONS  
• SINGLE SERVICES  
- 11 x SHORT SIDE  
- 6 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN180	PE100 PN16	72
DN90	PE100 PN16	81
DN75	PE100 PN16	56
DN63	PE100 PN16	67

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-004 TO 007.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-010 AND 013.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-024.
  - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
  - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1115-FS.
  - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIAM.
  - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).**
  - DN280 AND DN250 PE PRESSURE SEWER MAIN TO BE LAID TO GRADE.

ADW Johnson Pty Ltd  
on behalf of

Coorانبong + Water

Date Approved: 30/09/2019

**AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	0 5 10 A1 / A3
B	23.05.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	1:250 / 1:500
C	31.05.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
D	24.09.2019	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
0	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
2	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
3	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.HO.	H.M.	J.N.	C.B.	

**adw Johnson**  
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**

PROPERTY DESCRIPTION  
PROPOSED SUBDIVISION  
PRECINCT 2, STAGE 2.15 WATAGAN PARK  
WHISTLER DRIVE, COORANBONG  
DA/307/2015

SURVEYED  
ADW Johnson

DATUM  
A.H.D.

PROJECT  
POTABLE WATER, RECYCLED WATER AND  
PRESSURE SEWER RETICULATION

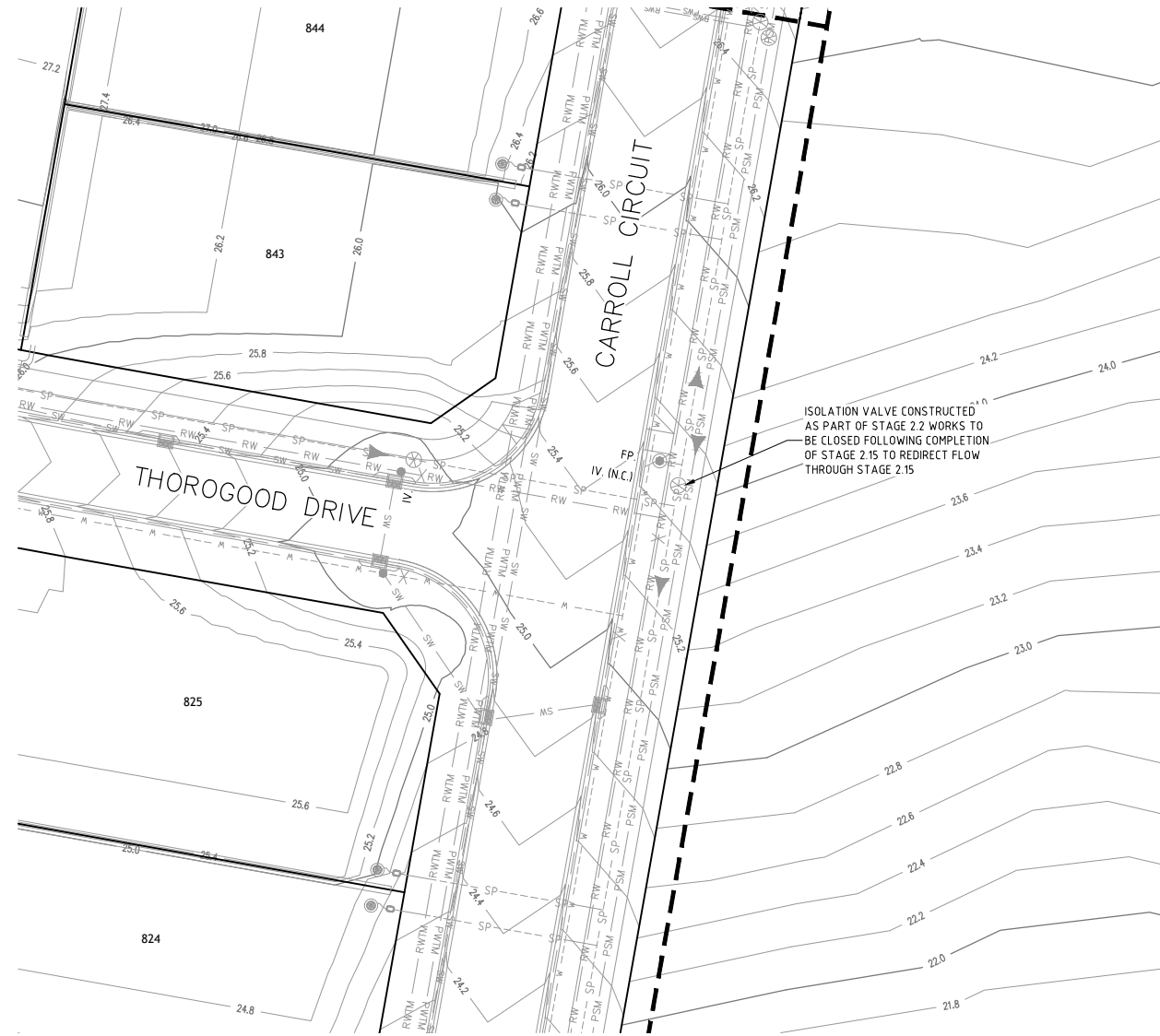
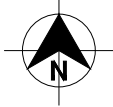
PLAN TITLE  
PRESSURE SEWER DETAIL PLAN  
- SHEET 4

PROJECT No.  
239078(2.15)

DISCIPLINE  
- WAT -

NUMBER  
019

REV.  
3



PLAN  
SCALE 1:250

ADW Johnson Pty Ltd  
on behalf of  
**Cooranbong**  Water  
Date Approved: 30/09/2019

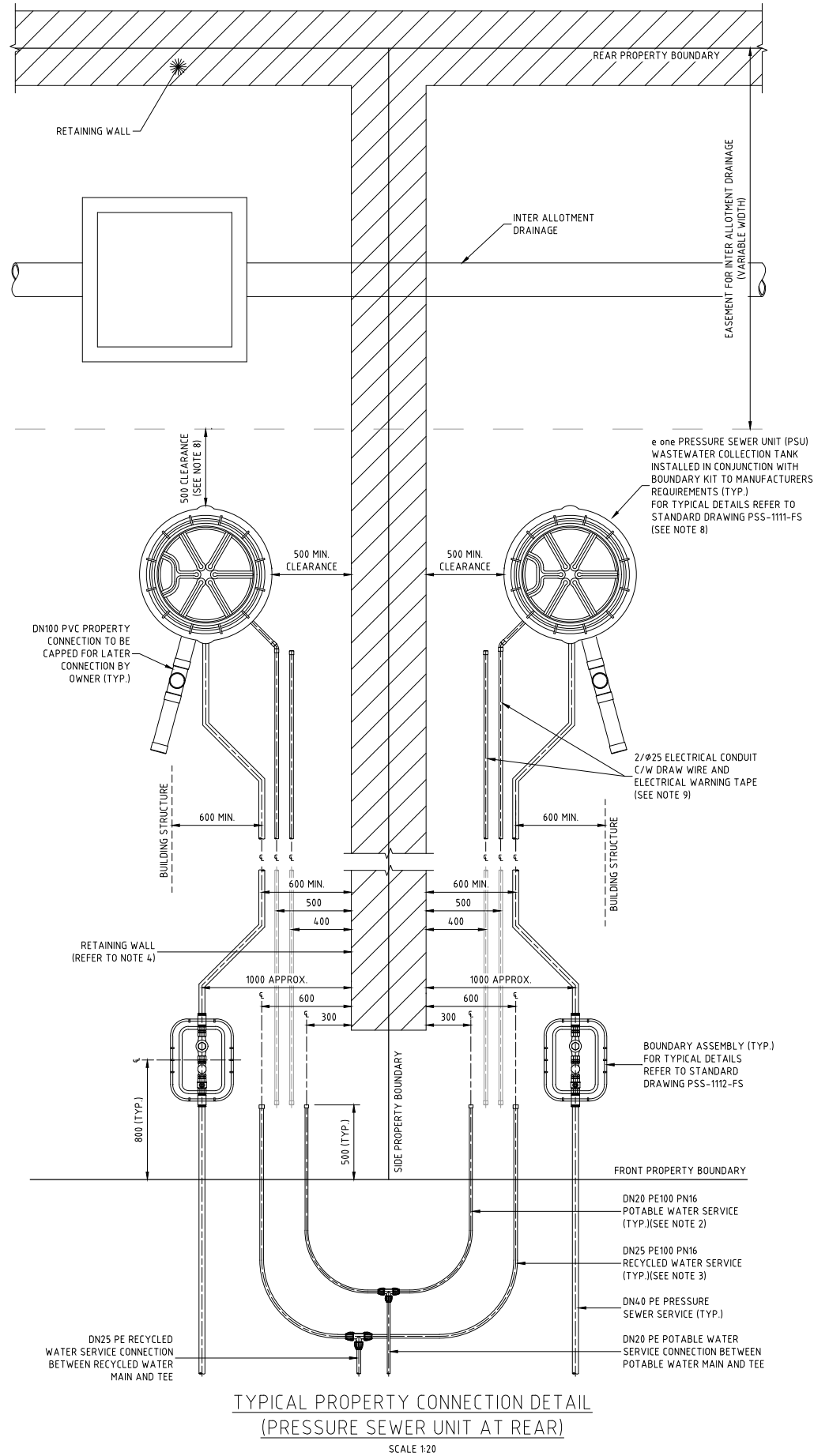
**AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		<p>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</p>		CLIENT	PROPERTY DESCRIPTION				PROJECT	
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.						POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION					
B	23.05.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.						PLAN TITLE					
C	31.05.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.						PRESSURE SEWER FLOW REDIRECTION DETAIL					
D	24.09.2019	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.											
O	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.											
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.											
2	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.											
3	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.HO.	H.M.	J.N.	C.B.											
DESIGN FILE N:\												ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED		DATUM	
									ADW Johnson		A.H.D.						
										PROJECT No. 239078(2.15)		DISCIPLINE - WAT -		NUMBER 020		REV. 3	



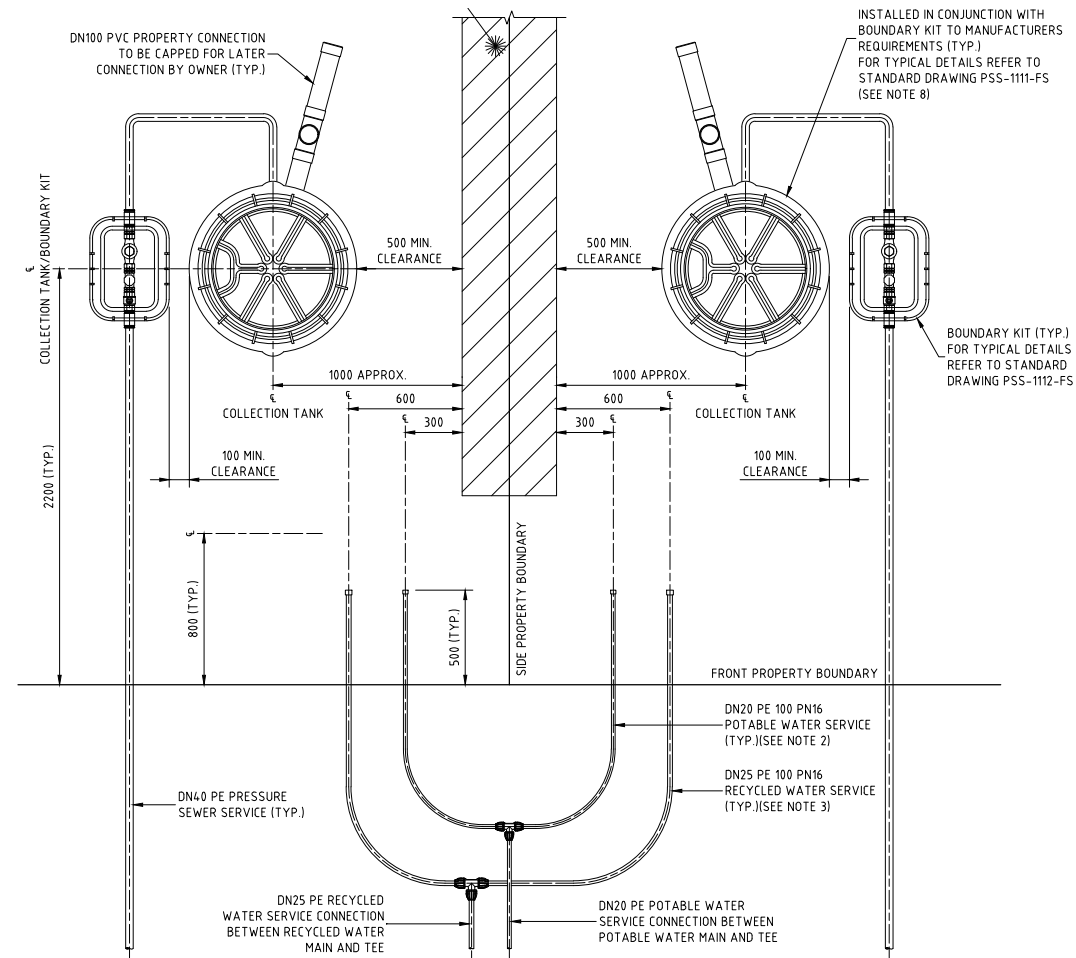
1. ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.

Plotted By: scotth    Plot Date: 20/01/21 - 09:44    Cad File: N:\239078\Dwg\water & sewer design\precinct 2 water and sewer\Stage 2.15\239078(2.15)-issue 3\239078(2.15)-WAT-022 to 025(3).dwg



TYPICAL PROPERTY CONNECTION DETAIL  
(PRESSURE SEWER UNIT AT REAR)

SCALE 1:20



TYPICAL PROPERTY CONNECTION DETAIL

SCALE 1:20

NOTES:

- PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS (SYDNEY WATER VERSION)(SUPPLEMENT TO WSA 03-2011).
- DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- DN25 PE100 PN16 RECYCLED WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT, SERVICES ARE TO BE OFFSET FROM THE PROPERTY BOUNDARY.
- 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.
- MINIMUM BENDING RADIUS FOR PE PIPEWORK IS TO BE 20 x PIPE DIAMETER.
- ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
- 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.
- ø25 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.
- FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-FS.
- 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.

ADW Johnson Pty Ltd  
on behalf of

Cooranbong + Water

Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.
B	23.05.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.
C	31.05.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.
D	24.09.2019	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.
O	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.
2	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.
3	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.

SCALES
0 0.1 0.2 0.3 0.4 A1 / A3 1:10 / 1:20
0 0.4 0.8 A1 / A3 1:20 / 1:40



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



PROPERTY DESCRIPTION  
PROPOSED SUBDIVISION  
PRECINCT 2, STAGE 2.15 WATAGAN PARK  
WHISTLER DRIVE, COORANBONG  
DA/307/2015

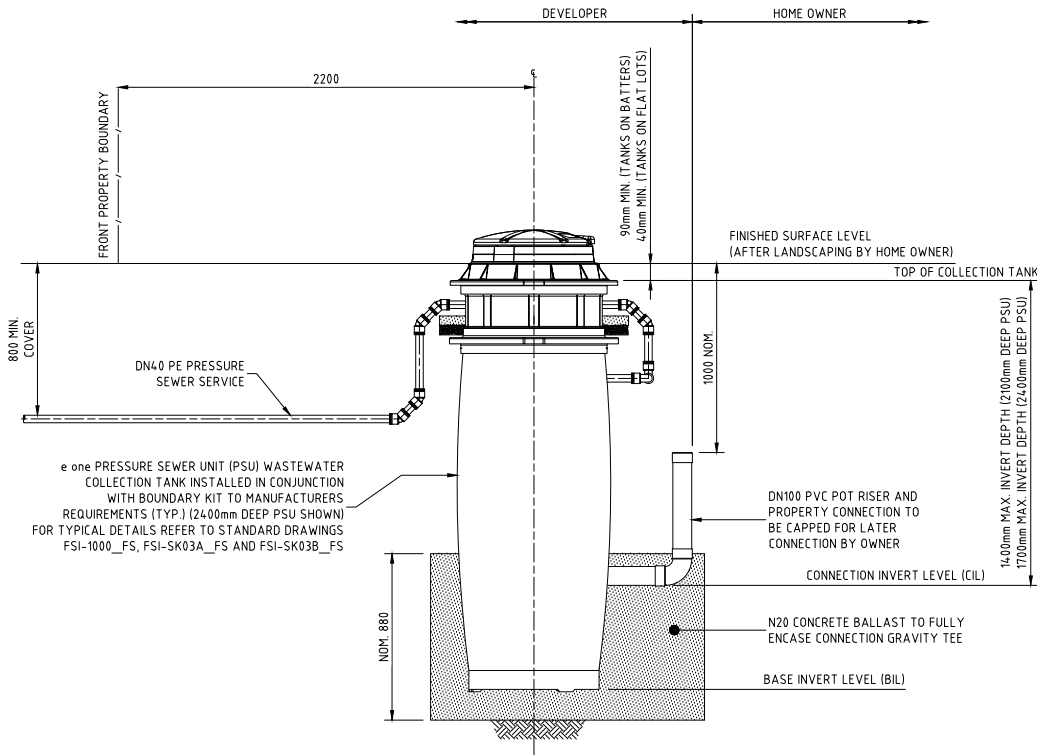
PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION
PLAN TITLE	TYPICAL SERVICE CONNECTION DETAILS

DESIGN FILE	N:\	PROJECT No.	239078(2.15)	DISCIPLINE	- WAT -	NUMBER	024	REV.	3
-------------	-----	-------------	--------------	------------	---------	--------	-----	------	---



WASTEWATER COLLECTION TANK LEVELS				
LOT NUMBER	FINISHED SURFACE LEVEL (FSL)	TANK BASE INVERT LEVEL (BIL)	TANK CONNECTION INVERT LEVEL (CIL)	TANK HEIGHT
1501	40.27	38.40	39.00	2100
1502	40.57	38.70	39.30	2100
1503	40.73	38.86	39.46	2100
1504	39.60	37.43	38.03	2400
1505	38.01	36.14	36.74	2100
1506	39.96	38.09	38.69	2100
1507	40.45	38.53	39.13	2100
1508	41.60	39.73	40.33	2100
1509	43.04	41.17	41.77	2100
1510	EXISTING SERVICE CONNECTION - REFER TO STAGE 2.5 DESIGN DRAWINGS.			
1511	44.13	42.21	42.81	2100
1512	44.00	42.08	42.68	2100
1513	43.60	41.68	42.28	2100
1514	43.49	41.57	42.17	2100
1515	42.91	41.04	41.64	2100
1516	42.66	40.74	41.34	2100
1517	41.60	39.73	40.33	2100
1328 (FUTURE)	41.40	39.48	40.08	2100

WASTEWATER COLLECTION TANK TO BE PLACED IN REAR OF LOT

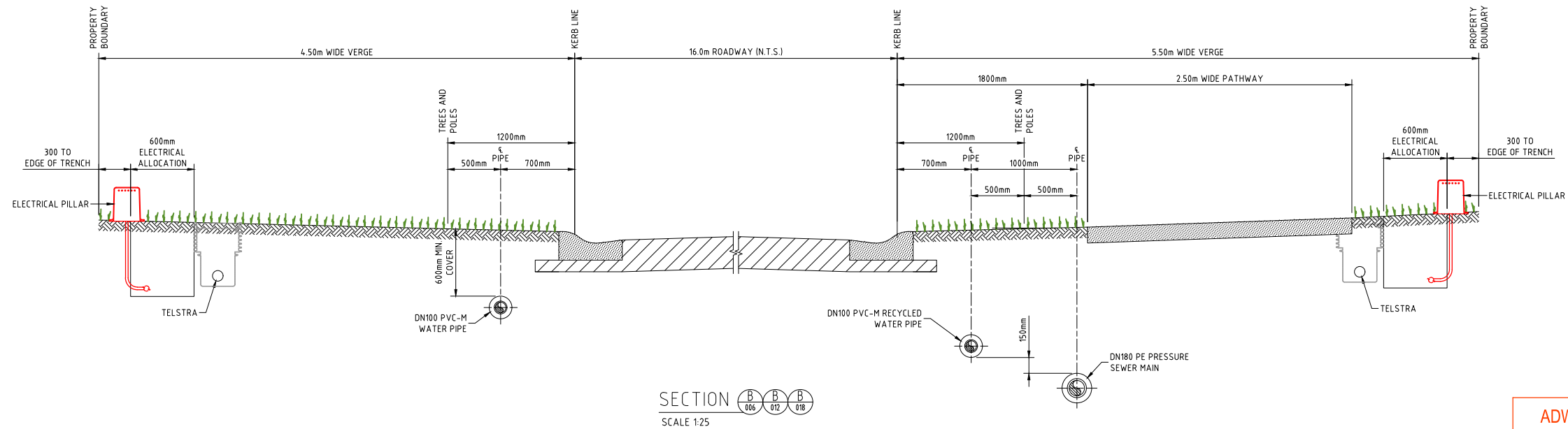
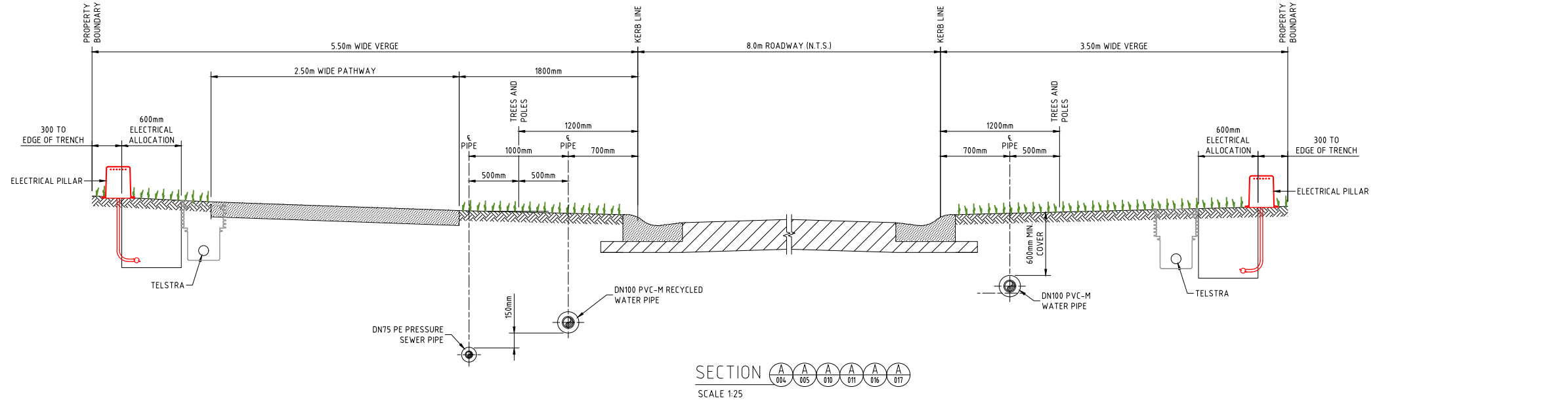


PRESSURE SEWER SERVICE CONNECTION  
TYPICAL SECTIONAL ELEVATION  
SCALE 1:20  
(SHOWN AS FRONT OF LOT SERVICE CONNECTION WITH 2400mm DEEP PSU)

ADW Johnson Pty Ltd  
on behalf of  
Cooranbong Water  
Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 <div>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</div>		CLIENT	PROPERTY DESCRIPTION		PROJECT			
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION																
PLAN TITLE		WASTEWATER COLLECTION TANK LEVEL DETAILS														
SURVEYED		DATUM		PROJECT No.		DISCIPLINE					NUMBER		REV.			
ADW Johnson		A.H.D.		239078(2.15)		- WAT -					025		3			
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.										
B	23.05.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.										
C	31.05.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.										
D	24.09.2019	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.										
O	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.										
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.		ALL DIMENSIONS ARE IN METRES. DO NOT SCALE								
2	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.										
3	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.HO.	H.M.	J.N.	C.B.										
DESIGN FILE N:\																



## NOTE:

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

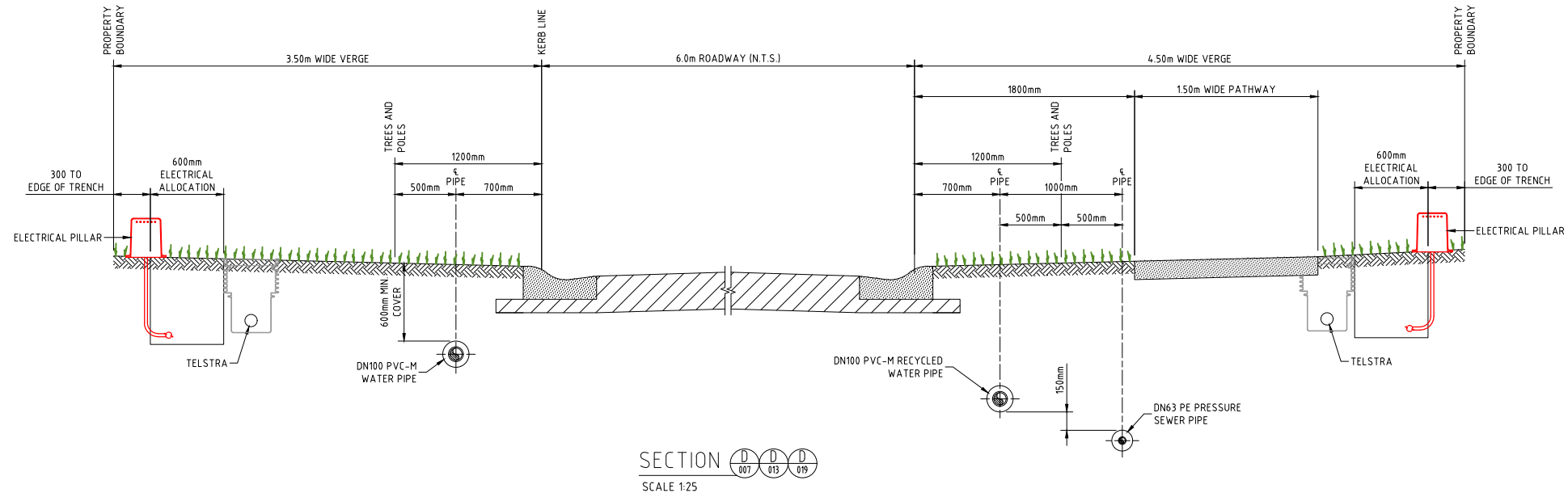
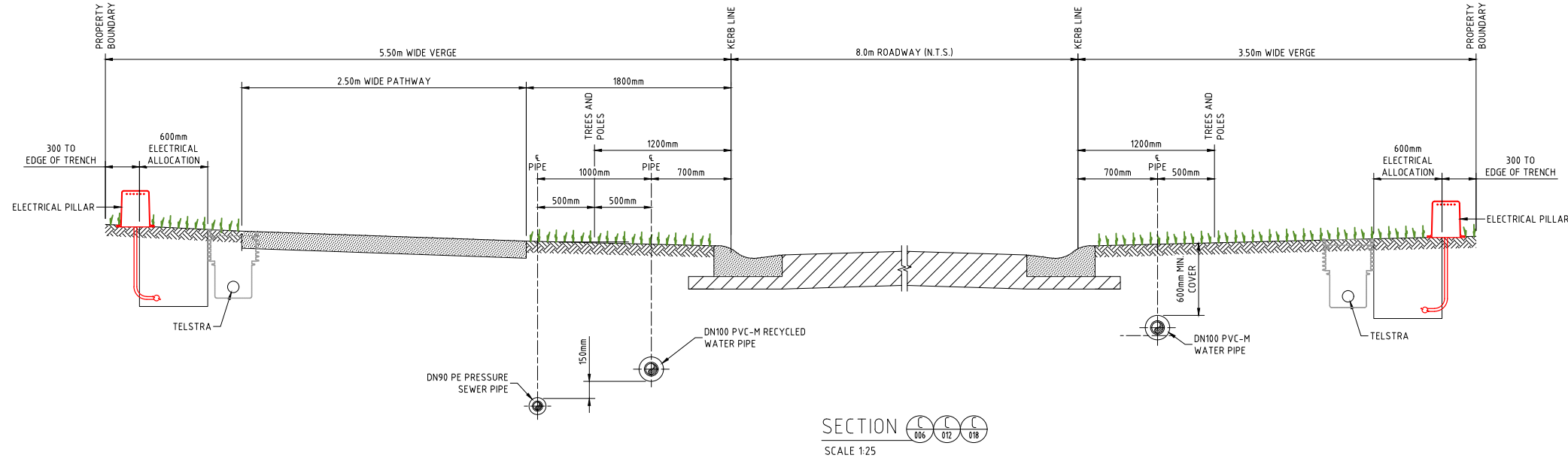
ADW Johnson Pty Ltd  
on behalf of

Cooranbong Water

Date Approved: 30/09/2019

**AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	0 / 0.5 / 1	Hunter Office	PROPOSED SUBDIVISION	POTABLE WATER, RECYCLED WATER AND		239078(2.15)	-	WAT	026
B	23.05.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	1:25 / 1:50	Unit 7/335 Hillsborough Rd	PRECINCT 2, STAGE 2.15 WATAGAN PARK	PRESSURE SEWER RETICULATION					3
C	31.05.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.		Warners Bay N.S.W. 2282	WHISTLER DRIVE, COORANBONG						
D	24.09.2019	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.		Phone: (02) 4978 5100	DA/307/2015						
O	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.		Fax: (02) 4978 5199							
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.		email: hunter@adwjohnson.com.au							
2	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.		www.adwjohnson.com.au							
3	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.		ABN 62 129 445 398							



## NOTE:

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

ADW Johnson Pty Ltd  
on behalf of  
Coorabong + Water  
Date Approved: 30/09/2019

**AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.	0 0.5 1 A1 / A3
B	23.05.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.	1:25 / 1:50
C	31.05.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
D	24.09.2019	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.	
O	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.	
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
2	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.	
3	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.	

DESIGN FILE N:\  
Plotted By: scott  
Plot Date: 20/01/21 - 09:44  
Cad File: N:\239078\Drawings\water & sewer design\precinct 2 water and sewer\Stage 2.15\239078(2.15)-issue 3\239078(2.15)-WAT-026 to 029(3).dwg



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

CLIENT



PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
PRECINCT 2, STAGE 2.15 WATAGAN PARK  
WHISTLER DRIVE, COORABONG  
DA/307/2015

SURVEYED

ADW Johnson

DATUM

A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND  
PRESSURE SEWER RETICULATION

PLAN TITLE

ROAD CROSS SECTIONS - SHEET 2

PROJECT No.  
239078(2.15)

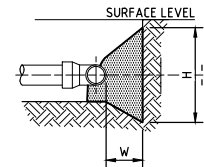
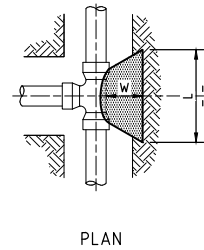
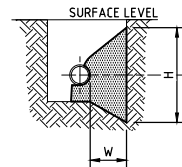
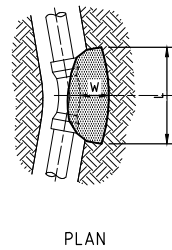
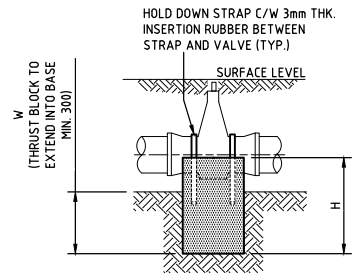
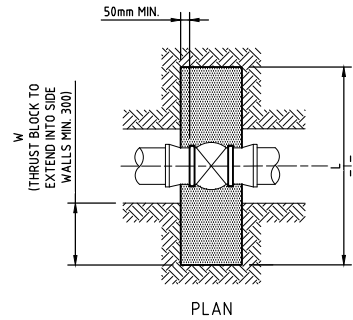
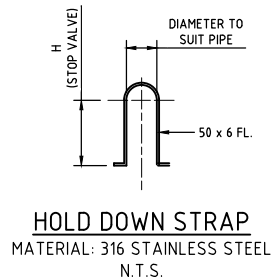
DISCIPLINE  
- WAT -

NUMBER

027

REV.

3



TYPE	FITTING	Soil AHBP (Kpa)	Design STP (Kpa)	Thrust	TA (m2)	Length (L)	Height (H)	Width (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:

- CONCRETE THRUST BLOCKS ARE TO BE PROVIDED FOR ALL FITTINGS IN ACCORDANCE WITH TABLE.
- 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.
- THRUST BLOCKS ARE TO BE CONSTRUCTED SUCH THAT THEY TRANSFER THE THRUST ONTO UNDISTURBED GROUND. THRUST BLOCKS ARE NOT TO INTERFERE WITH OTHER SERVICES.
- 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°.
- CONCRETE FOR THE THRUST BLOCKS TO BE GRADE S25 USING CEMENT TYPE "SR" TO AS3972. CONCRETE TO BE MECHANICALLY VIBRATED.
- CONCRETE THRUST BLOCKS ARE TO BE CURED FOR A MINIMUM OF 7 DAYS BEFORE BEING SUBJECTED TO ANY THRUST LOAD.
- REFER TO WAT-1205-V FOR GENERAL FITTING THRUST BLOCK ARRANGEMENTS.
- REFER TO WAT-1207-V FOR GENERAL VALVE AND VERTICAL BEND THRUST BLOCK ARRANGEMENTS.

ADW Johnson Pty Ltd  
on behalf of  
Cooranbong Water  
Date Approved: 30/09/2019

AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 <div>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</div>	CLIENT		PROPERTY DESCRIPTION		PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
A	15.01.2016	PRELIMINARY ISSUE	J.N.	L.G.	J.N.	L.G.					PROPOSED SUBDIVISION PRECINCT 2, STAGE 2.15 WATAGAN PARK WHISTLER DRIVE, COORANBONG DA/307/2015		PLAN TITLE			
B	23.05.2016	AMENDED ISSUE - SERVICES RELOCATED	J.N.	L.G.	J.N.	L.G.							THRUST BLOCK DETAILS			
C	31.05.2016	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.										
D	24.09.2019	AMENDED ISSUE - FLOW SYSTEMS COMMENTS	J.N.	L.G.	J.N.	L.G.										
O	30.09.2019	CONSTRUCTION ISSUE	J.N.	L.G.	J.N.	L.G.										
1	04.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.										
2	27.08.2020	AMENDED CONSTRUCTION ISSUE	J.N.	C.B.	J.N.	C.B.										
3	14.01.2021	LOT NUMBERS UPDATED TO MATCH REGISTERED DP	S.H.O.	H.M.	J.N.	C.B.										
DESIGN FILE N:\											ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				SURVEYED ADW Johnson	DATUM A.H.D.