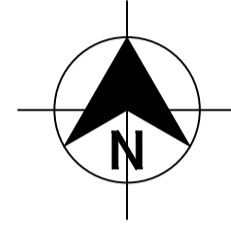


240072(ARIA)3-WAC-001

ARIA - STAGE 3 WINE COUNTRY DRIVE HUNTLEE



LOCALITY SKETCH
NOT TO SCALE

DRAWING INDEX	
Sheet Title	Sheet Description
240072(ARIA)3-WAC-001	COVER SHEET, LOCALITY PLAN & DRAWING INDEX
240074(ARIA)3-WAC-002	GENERAL NOTES
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240072(ARIA)3-WAC-101	POTABLE WATER DETAIL PLAN - SHEET 1
240072(ARIA)3-WAC-102	POTABLE WATER DETAIL PLAN - SHEET 2
240072(ARIA)3-WAC-103	POTABLE WATER DETAIL PLAN - SHEET 3
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240072(ARIA)3-WAC-201	RECYCLED WATER DETAIL PLAN - SHEET 1
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240072(ARIA)3-WAC-405	FITTINGS DETAILS

WORK AS CONSTRUCTED

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	BASS RANDALL	NAME	
SIGNED	<i>B. Bass</i>	DATE	12/06/2026
	REGISTERED SURVEYOR	SIGNED	
		DATE/...../.....
			CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM: 20029
 E: 345612.942 Co-Ord System: MGA Ground
 N: 6382878.917 MGA Datum: GDA94
 RL: 77.675m MGA Zone: 56



WORK AS CONSTRUCTED

100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	13.08.2024	INITIAL ISSUE	G.S.	C.H.	G.S.	C.B.	
B	04.06.2025	REVISED PRELIMINARY ISSUE	T.A.	C.H.	G.S.	C.B.	
0	23.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
1	28.10.2025	AMENDED CONSTRUCTION ISSUE	M.S.	C.H.	C.H.	C.B.	
2	12.06.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.	



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CLIENT

ARIA - STAGE 3
WINE COUNTRY DRIVE
HUNTLEE

PROPERTY DESCRIPTION		PROJECT	
ARIA - STAGE 3 WINE COUNTRY DRIVE HUNTLEE		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	
PLAN TITLE		PROJECT No.	
COVER SHEET, LOCALITY PLAN & DRAWING INDEX		240074(ARIA)3	
SURVEYED	DATUM	DISCIPLINE	NUMBER
DALEY.Smith Pty Ltd	GDA94 M.G.A. ZONE 56 A.H.D.	- WAC	- 001
		REV.	2

240072(ARIA)3-WAC-001

100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

PRESSURE SEWER NOTES:

- 1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA, PRESSURE SEWERAGE CODE OF AUSTRALIA - WSA 07-2007 VERSION 1.1 AND POLYETHYLENE PIPELINE CODE WSA 01-2004.
2. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS. BUTT FUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE GEORG FISCHER PIPING SYSTEMS BUTT FUSION PRODUCT RANGE. ELECTROFUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE PLASSON "POLYETHYLENE PIPING SYSTEMS" PRODUCT RANGE.
3. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
4. PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007 AND ALTOGETHER SUPPLEMENTARY MANUAL TO WSA.
5. ALL POLYETHYLENE MAINS <= DN200 SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ALL POLYETHYLENE MAINS > DN200 SHALL BE JOINED USING BUTTWELD JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
6. MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED. 600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER AND WATER MAINS. MINIMUM PIPE COVER SHALL BE 800mm IN FOOTWAYS AND 1000mm IN ROADWAYS. MAXIMUM PIPE COVER SHALL GENERALLY BE 1500mm. WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL PRESSURE SEWER AND RECYCLED WATER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
7. MAINS CROSSING UNDER EXISTING DRIVEWAYS (SEALED, PAVED OR DECORATIVE) SHALL BE CONDUCTED BY UNDER BORING ONLY UNLESS PERMISSION IS GRANTED BY THE AFFECTED PROPERTY OWNER.
8. MAINS WITHIN 2.0m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE ALTOGETHER REPRESENTATIVE).
9. ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA PRODUCT SPECIFICATION WSA-PS350 AND WSA-PS351.
10. ALL BENDS SHALL BE ELECTROFUSION OR BUTT WELD SWEEP BENDS. FABRICATED BENDS SHALL NOT BE USED IN LIEU. KNUCKLE ELBOWS ARE NOT PERMITTED.
11. MINIMUM BENDING RADIUS FOR PN16 PE100 (SDR11) SHALL BE 20 x DN. (i.e. DN400 - R8.0m, DN250 - R5.0m, DN200 - R4.0m, DN160 - R3.2m, DN125 - R2.5m, DN90 - R1.8m, DN75 - R1.5m, DN63 - R1.3m, DN50 - R1.0m, DN40 - R0.8m).
12. ALL HOUSE SERVICE LATERALS SHALL BE DN40 (PE100 PN16).
13. FLUSHING PITS SHALL CONFORM WITH ALTOGETHER STANDARD DRAWINGS. REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION. SMALL MAINS (<= DN110) http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017A-FS.pdf LARGE MAINS (> DN110) http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017B-FS.pdf
14. LOCALISED DEEPENING OF MAINS MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION. THE CONTRACTOR SHALL ENSURE THAT THE AIR VALVE OFFTAKE IS LOCATED AT A HIGH POINT (NATURAL OR ARTIFICIAL) IN THE MAIN (i.e. MAIN SHALL GRADE DOWNWARDS EITHER SIDE OF THE AIR VALVE).
15. DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
16. ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
17. DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
18. ALL VALVES SHALL BE RESILIENT SEATED SLUICE VALVES (ANTI-CLOCKWISE CLOSING), SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207 AND SHALL COMPLY WITH ALTOGETHER STANDARD DRAWING PSS-1015-FS.
19. ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 07-2007 VERSION 1.1.
20. FOR LOTS WITH TANKS IN THE REAR. 1 x #25mm INSTRUMENTATION CONDUIT (ORANGE) AND 1 x #25mm ELECTRICAL CONDUIT (ORANGE)(WITH DRAW WIRES) SHALL BE INSTALLED FROM THE COLLECTION TANK TO WATER METERS. THE CONDUITS SHALL BE LAID IN A COMMON TRENCH WITH THE SEWERAGE AND MAINTAIN A MINIMUM HORIZONTAL CLEARANCE OF 400mm. (REFER TO ALTOGETHER STANDARD DRAWINGS FOR SETOUT DIMENSIONS).
21. THE CONSTRUCTOR SHALL PROVIDE ALTOGETHER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED AND CONFIRMATION IS PROVIDED BY THE ALTOGETHER REPRESENTATIVE.
22. UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
23. PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
24. BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.
25. THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE PRESSURE SEWER CODE OF AUSTRALIA (CLAUSE 21.3.4) ARE: TRAFFICABLE PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING. NON-TRAFFICABLE PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900mm OF FILL AND EACH 100 LINEAL METRES OF PIPE.
26. BOUNDARY KITS (COMPLETE) SHALL BE NOV SUPPLIED (NOV PSS-BK4). e one COLLECTION TANK (ESD 20-0032/ESD 20-0033) SHALL BE INSTALLED WITH BOUNDARY KIT (REFER ALTOGETHER STANDARD DRAWINGS PSS-1112-FS AND PSS-1113-FS). PUMP TO BE INSTALLED BY OTHERS.
27. ALL MAINS (UP TO THE BOUNDARY KIT) SHALL BE PRESSURE TESTED TO 1600 kPa. ALL LINES FROM THE WASTEWATER COLLECTION TANK TO THE MANUAL ISOLATION VALVE WITHIN THE BOUNDARY KIT TO BE PRESSURE TESTED TO 1000kPa.
28. ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
29. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
30. ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.
31. PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
32. WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.
33. ELECTRICAL GLAND CONNECTION SUPPLIED LOOSE WITH EACH SEWER POT IS TO BE INSTALLED BY THE CIVIL CONTRACTOR AND ELECTRICAL CONDUIT ATTACHED TO THE TANK FOR FUTURE ELECTRICAL WIRING.

PRESSURE SEWER NOTES:

- 33. FLUSHING POINT KITS TO BE TRAFFICABLE ENCLOSED - CLASS B. HOWEVER IF INSTALLATION TO BE INSTALLED IN FOORPATH OR DRIVEWAY, CEMENT TRAFFICABLE ENCLOSURE - CLASS C/D IS REQUIRED.
POTABLE WATER AND RECYCLED WATER NOTES:
1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA AND WSA 03-2011-3.1 (SYDNEY WATER EDITION 2014).
2. POTABLE WATER SHALL BE UTILISED FOR FIRE FIGHTING PURPOSES.
3. ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW, SHALL CONFORM TO THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS.
4. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
5. THE CONSTRUCTOR SHALL VERIFY WITH THE SITE SUPERVISOR THE POSITION AND LEVEL OF ALL EXISTING AND PROPOSED BOUNDARIES PERTINENT TO THE INFRASTRUCTURE INSTALLATIONS.
6. MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED. 600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER AND WATER MAINS. MINIMUM PIPE COVER SHALL BE 600mm IN FOOTWAYS (TYPE B EMBEDMENT: WAT-1202-V) AND 800mm IN ROADWAYS (TYPE L EMBEDMENT: WAT-1204-V). MAXIMUM PIPE COVER SHALL GENERALLY BE 1500mm. WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL RECYCLED WATER MAINS AND PRESSURE SEWER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
7. ALL POTABLE WATERMAINS TO BE BLUE PVC-M (PN16). ALL RECYCLED WATERMAINS SHALL BE LILAC PVC-M (PN16). DIFFERENTIATION OF POTABLE AND RECYCLED WATER SYSTEMS SHALL BE AS PER TABLE 4.1 WSA03-2011 WITH BOTH SERVICES BEING CLASSIFIED AS WATER MAINS. RECYCLED WATER MAINS SHALL ALWAYS BE LOWER THAN POTABLE WATER MAINS. 150mm VERTICAL CLEARANCE BETWEEN POTABLE WATER AND RECYCLED WATER MAINS SHALL BE PROVIDED.
8. MAXIMUM JOINT DEFLECTIONS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
9. LOCALLY LOWER PIPEWORK IN VICINITY OF STOP VALVES TO ENSURE SUFFICIENT COVER IS MAINTAINED OVER VALVES. LOWERING OF PIPEWORK SHALL BE ACHIEVED OVER A NUMBER OF PIPE LENGTHS EITHER SIDE OF VALVES TO ELIMINATE ANY SHARP DEFLECTIONS.
10. ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA PRODUCT SPECIFICATION PS-350, 368 AND 369. GEOTECHNICAL CONDITIONS SHOULD BE ASSESSED DURING CONSTRUCTION BY THE CONTRACTOR IN ASSOCIATION WITH THE ALTOGETHER REPRESENTATIVE TO DETERMINE THE NEED TO MODIFY EMBEDMENT/TRENCH FILL TYPE AND THE NEED FOR TRENCH DRAINAGE/BULKHEADS.
11. DURING CONSTRUCTION, ALL OPEN ENDS OF PIPES SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
12. HYDRANTS, STOP VALVES AND ALL OTHER FITTINGS TO BE THE SAME SIZE AS THE THROUGH WATER MAIN AND ANTI CLOCKWISE CLOSING.
13. HYDRANTS MUST NOT BE INSTALLED IN POTENTIAL DRIVEWAY LOCATIONS. HYDRANTS AND WATER SERVICES SHALL BE NOMINALLY AT LEAST 5.0m FROM EACH BOUNDARY OR ON BOUNDARIES. WHERE POSSIBLE, FITTINGS SHALL BE LOCATED BEHIND KERB INLET PITS.
14. THRUST BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH WAT-1205.
15. ALL PROPERTY (MAIN TO METER) SERVICE CONNECTIONS SHALL BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH ALTOGETHER REQUIREMENTS. REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION. SINGLE SERVICE: http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1854-FS.pdf DUAL SERVICE: http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1855-FS.pdf
16. PROPERTY SERVICE CONNECTION IS SHALL BE FLUSHED AND LOCKED (BY THE ALTOGETHER REPRESENTATIVE) FOLLOWING SUCCESSFUL PRESSURE TESTING.
17. SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
18. ALL MAINS SHALL BE PRESSURE TESTED TO 1500kPa IN ACCORDANCE WITH CLAUSE 19.4 OF WSA03-2011 (SYDNEY WATER EDITION 2014).
19. ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
20. WATER QUALITY TESTING SHALL BE IN ACCORDANCE WITH WSA 03-2011-3.1(SYDNEY WATER EDITION-2014. CLAUSE 19.7).
21. THE CONSTRUCTOR SHALL PROVIDE HUNTLEE WATER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED AND CONFIRMATION IS PROVIDED BY THE ALTOGETHER REPRESENTATIVE.
22. UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
23. PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
24. BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.
25. MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY WSA03-2011 (SYDNEY WATER EDITION 2014) (CLAUSE 19.3.5): TRAFFICABLE PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING. NON-TRAFFICABLE PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900MM OF FILL AND EACH 100 LINEAL METERS OF PIPE. PROPERTY SERVICES TEST 1 OF EVERY 5 PROPERTY SERVICE TRENCHES. TESTING SHALL BE IN ACCORDANCE WITH TABLE 16.1 AND 17.1 OF THE WATER SUPPLY CODE OF AUSTRALIA.
26. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
27. PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
28. WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.
29. WHERE THE PIPE GRADE EXCEEDS 5%, TRENCHSTOPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WAT-1209 AND WAT-1210 AT THE SPACING OF 100/GRADE%. WHERE PIPE GRADES EXCEED 15%, CONCRETE BULKHEADS WILL BE CONSTRUCTED AT SPACING AS PER TABLE 7.5 OF WSA03-2001 SYDNEY WATER EDITION 2014.
ALTOGETHER STANDARD DRAWINGS CAN BE FOUND AT THE FOLLOWING ADDRESS: https://askus.altogethergroup.com.au/hc/en-us/articles/900004827263-Standard-drawings-for-land-developers-

GENERAL NOTES:

- 1. THIS DRAWING SET SHALL BE READ IN CONJUNCTION WITH CESSNOCK CITY COUNCIL STANDARDS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSA AND OTHER ASSOCIATED DRAWINGS AND TECHNICAL SPECIFICATIONS.
2. THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORK AND SHALL REPAIR ANY DAMAGE CAUSED TO SUCH SERVICES DURING THE COURSE OF WORKS. ANY SERVICE LOCATIONS SHOWN IN THIS DRAWING SET ARE INDICATIVE ONLY.
3. MAKE SMOOTH TRANSITION TO EXISTING WORKS (i.e. ROAD PAVEMENT AND FOOTPATHS) TO P.C.A. AND SUPERINTENDENT'S REQUIREMENTS.
4. SUITABLE PROTECTION TO EXISTING ROAD PAVEMENT, KERB AND GUTTER, FOOTPATHS AND ANY EXISTING FEATURES SHALL BE PROVIDED UNTIL THE CONSTRUCTION WORKS ARE COMPLETED.

CLEARANCES BETWEEN PIPELINES AND UNDERGROUND SERVICES

Table with columns: UTILITY (EXISTING OR PROPOSED SERVICE), MINIMUM HORIZONTAL CLEARANCE (mm) (NEW MAIN SIZE), MINIMUM VERTICAL CLEARANCE (mm). Rows include WATER MAINS - DN375, GAS MAINS, TELECOMMUNICATION CONDUITS AND CABLES, ELECTRICITY CONDUITS AND CONDUITS, STORMWATER DRAINS, SEWERS (GRAVITY), SEWERS (PRESSURE AND VACUUM), KERBS.

NOTES:

- 1. VERTICAL CLEARANCES APPLY WHERE PIPELINES CROSS OTHER UTILITY SERVICES, EXCEPT IN THE CASE OF WATER/SEWER MAINS WHEN A VERTICAL SEPARATION SHALL ALWAYS BE MAINTAINED, EVEN WHEN THE PRESSURE SEWER AND WATER MAIN ARE PARALLEL. THE PRESSURE SEWER SHOULD ALWAYS BE LOCATED BELOW THE WATER MAIN TO MINIMISE THE POSSIBILITY OF BACKFLOW CONTAMINATION IN THE EVENT OF A PRESSURE MAIN BREAK.
2. WATER MAINS INCLUDES MAINS SUPPLYING BOTH POTABLE AND RECYCLED WATER.
3. FOR AREAS WITH EXISTING WATER RETICULATION, CLEARANCES CAN BE FURTHER REDUCED TO 600mm WITH THE APPROVAL OF THE WATER AUTHORITY.
4. CLEARANCES CAN BE FURTHER REDUCED TO 150mm FOR DISTANCES UP TO 2.0m WHEN PASSING INSTALLATIONS SUCH AS POLES, PITS, AND SMALL STRUCTURES, PROVIDING THE STRUCTURE IS NOT DE-STABILISED IN THE PROCESS.
5. CLEARANCES FROM KERBS SHALL BE MEASURED FROM THE NEAREST POINT OF THE KERB. FOR WATER/SEWER < DN 375, CLEARANCES FROM KERBS CAN BE PROGRESSIVELY REDUCED UNTIL THE MINIMUM OF 150mm IS REACHED FOR WATER/SEWER < DN200.
6. WHERE A PARALLEL SEWER IS AT MINIMUM VERTICAL CLEARANCE LOWER THAN THE WATER MAIN (500mm), MAINTAIN A MINIMUM HORIZONTAL OF 1000mm. THIS MINIMUM CLEARANCE CAN BE PROGRESSIVELY REDUCED TO 600mm AS THE VERTICAL CLEARANCE IS INCREASED TO 750mm.
7. FOR PRESSURE SEWER LATERALS, MINIMUM VERTICAL CLEARANCES MAY BE REDUCED TO 150mm PROVIDING THERE IS NO JOINT IN THE LATERAL WITHIN 500mm OF EITHER SIDE OF THE SERVICE BEING CROSSED.
8. AN ADDITIONAL CLEARANCE FROM HIGH VOLTAGE ELECTRICAL INSTALLATIONS SHOULD BE MAINTAINED ABOVE THE CONDUITS OR CABLES TO ALLOW FOR A PROTECTIVE BARRIER AND MARKING TO BE PROVIDED.
9. WATER MAINS SHOULD ALWAYS CROSS OVER SEWERS AND STORMWATER DRAINS. FOR CASES WHERE THERE IS NO ALTERNATIVE AND THE MAIN MUST CROSS UNDER THE SEWER, THE DESIGN SHALL NOMINATE AN APPROPRIATE PROTECTION TREATMENT (JOINT-FREE IN THE VICINITY OF THE SEWER).

SHOULD THE RECOMMENDED CLEARANCES NOT BE ACHIEVED, NOTIFICATION SHALL BE CONVEYED TO THE ALTOGETHER REPRESENTATIVE IN WRITING.

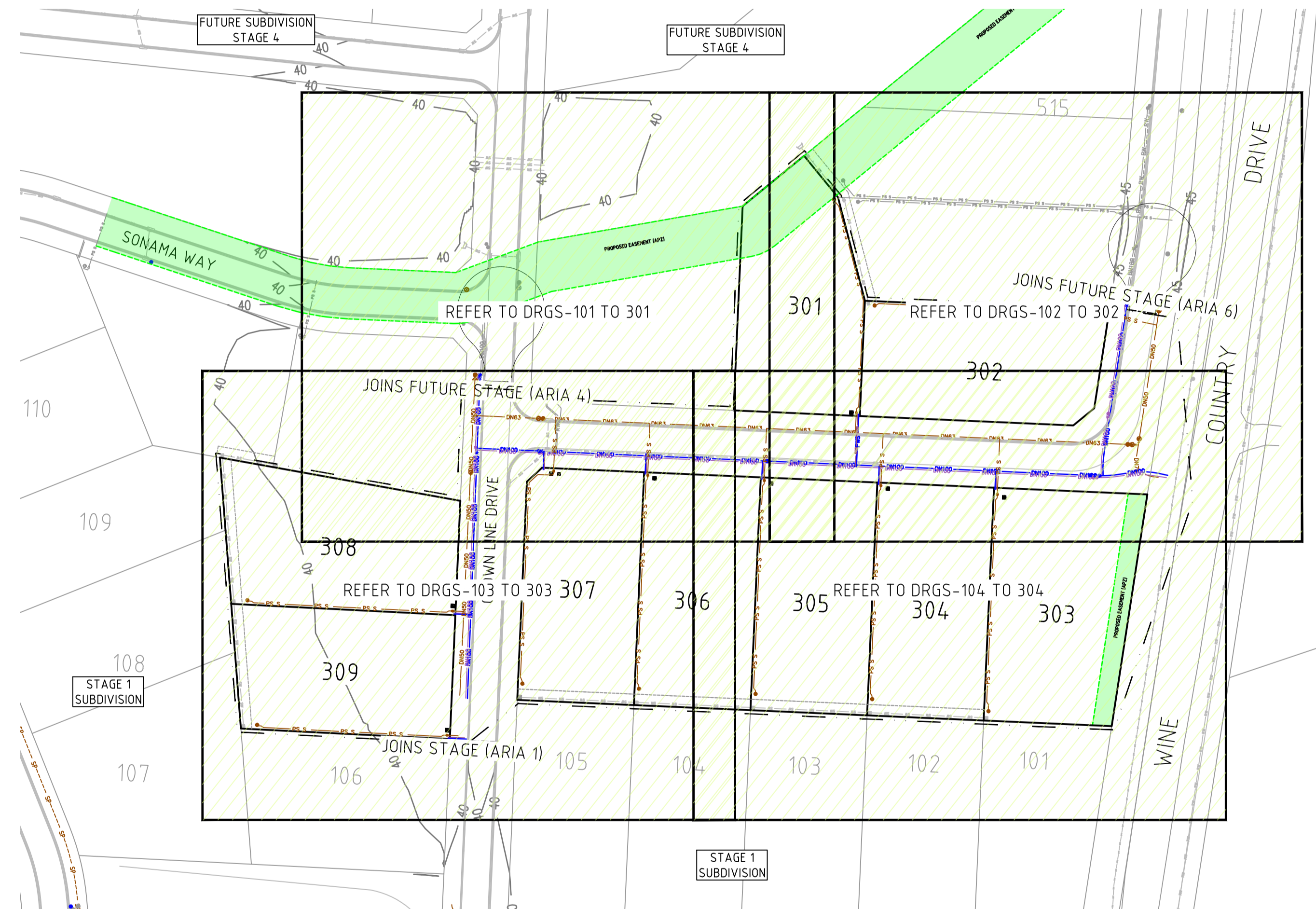
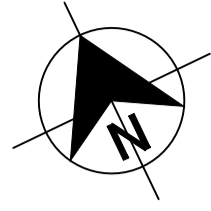
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COMPANY ADWJohnson Pty Ltd
NAME BASS RANDALL
SIGNED [Signature] DATE 12/06/2026 REGISTERED SURVEYOR

ORIGIN OF W.A.C. LEVELS
PM 20029
E 3155612.942
N 6382878.917
RL 77.675m
Co-Ord System: MGA Ground
MGA Datum: GDA94
MGA Zone: 56



WORK AS CONSTRUCTED

Table with columns: REV., DATE, AMENDMENT, DRAWN, CHECK, DESIGN, VERIFY, SCALES, CLIENT, PROPERTY DESCRIPTION, PROJECT, PLAN TITLE, SURVEYED, DATUM, PROJECT No., DISCIPLINE, NUMBER, REV. Includes logos for adw Johnson and Altogether.



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COMPANY ADW Johnson Pty Ltd COMPANY
 NAME BASS RANDALL NAME
 SIGNED *Bass Randall* DATE 12/06/2026 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM 20029 Co-Ord System: MGA Ground
 E: 345612.942 MGA Datum: GDA94
 N: 6382878.917 MGA Zone: 56
 RL: 77.675m



WORK AS CONSTRUCTED

PLAN
SCALE 1:1000

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	13.08.2024	INITIAL ISSUE	G.S.	C.H.	G.S.	C.B.	
B	04.06.2025	REVISED PRELIMINARY ISSUE	T.A.	C.H.	G.S.	C.B.	
0	23.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
1	28.10.2025	AMENDED CONSTRUCTION ISSUE	M.S.	C.H.	C.H.	C.B.	
2	12.06.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	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

PROPERTY DESCRIPTION

ARIA - STAGE 3
WINE COUNTRY DRIVE
HUNTLEE

SURVEYED DALEY.Smith Pty Ltd DATUM GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	OVERALL SITE PLAN		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240074(ARIA)3	- WAC	- 003	2

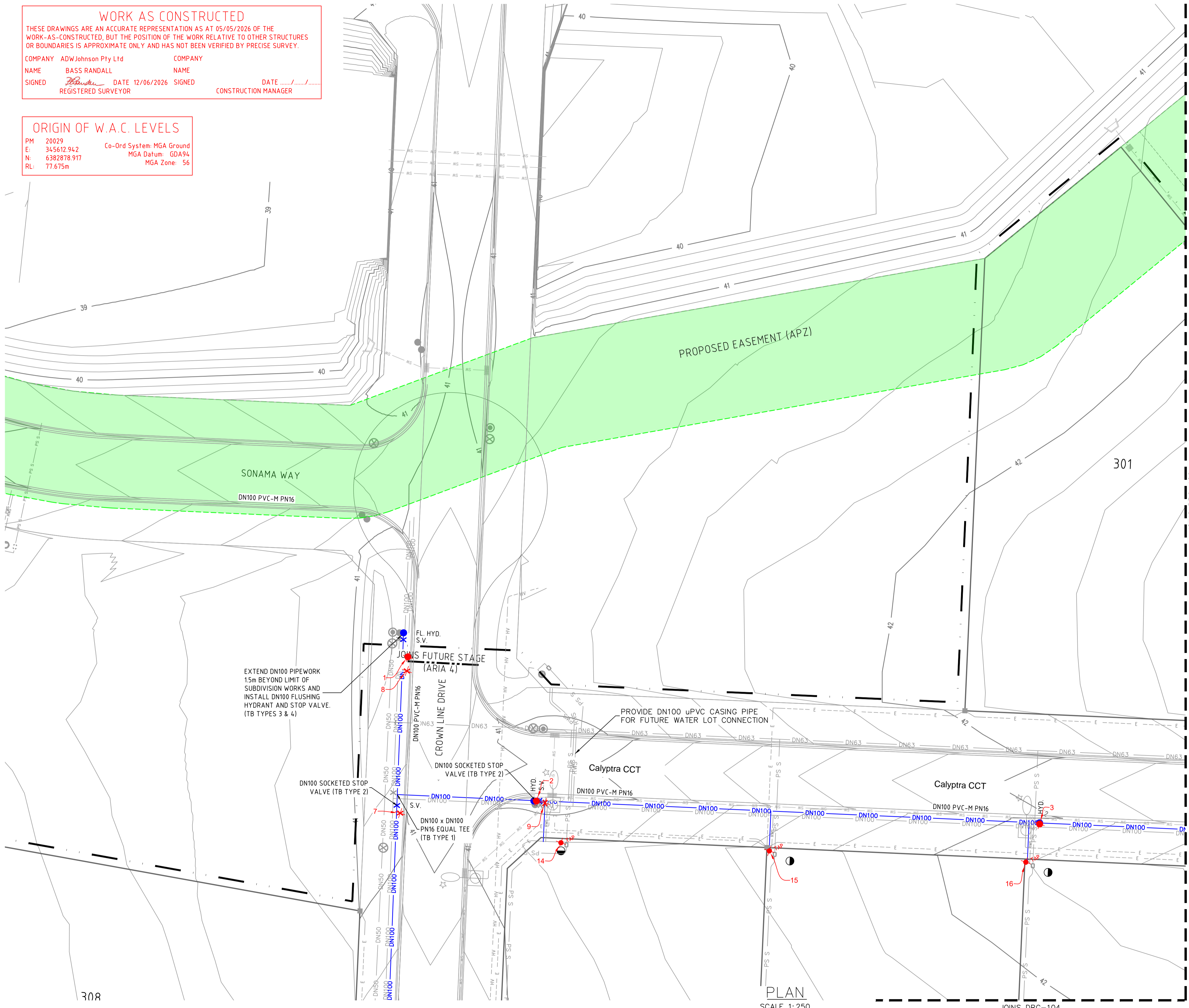
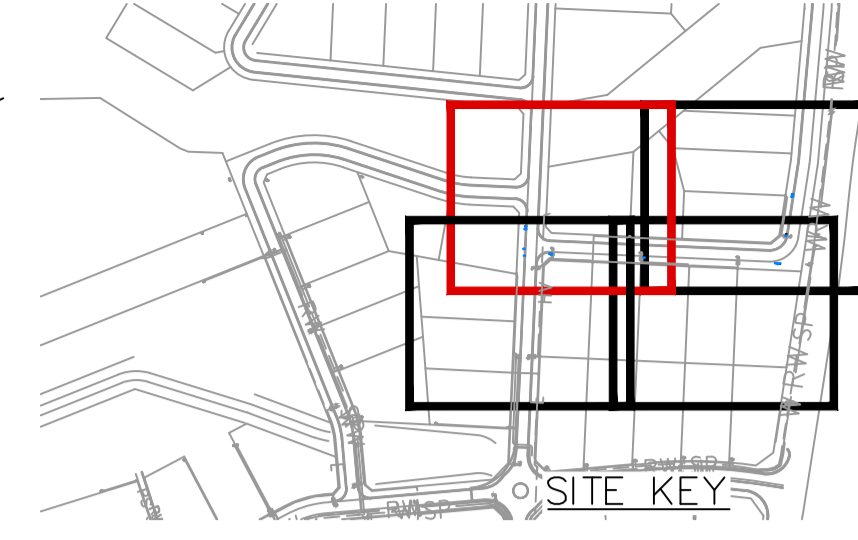
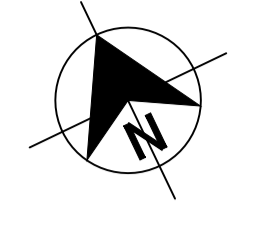
240072(ARIA)3-WAC-104

WORK AS CONSTRUCTED
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 05/05/2026 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY ADW Johnson Pty Ltd COMPANY
 NAME BASS RANDALL NAME
 SIGNED *[Signature]* DATE 12/06/2026 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM 20029 Co-Ord System: MGA Ground
 E: 345612.942 MGA Datum: GDA94
 N: 6382878.917 MGA Zone: 56
 RL: 77.675m



- LEGEND**
- DN100 DN100 PN16 PVC-M POTABLE WATER RETICULATION (FUTURE STAGE)
 - DN100 DN100 PN16 PVC-M POTABLE WATER RETICULATION
 - PWS PE POTABLE WATER PROPERTY SERVICE
 - DN100 PVC-M RECYCLED WATER RETICULATION (FUTURE STAGE)
 - DN100 DN100 PN16 PVC-M RECYCLED WATER RETICULATION
 - RWS PE RECYCLED WATER PROPERTY SERVICE
 - DN50 DN50 PE PRESSURE SEWER RETICULATION
 - DN63 DN63 PE PRESSURE SEWER RETICULATION
 - DN75 DN75 PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - HV HV HV HIGH VOLTAGE ELECTRICAL SERVICE
 - E E E ELECTRICAL SERVICE
 - SW SW SW STORMWATER PIPEWORK
 - STORMWATER EASEMENT
 - STORMWATER PIT
 - ELECTRICAL PIT
 - S.V. STOP VALVE
 - S.V. N.C. STOP VALVE NORMALLY CLOSED
 - HYD. HYDRANT
 - FL. HYD. FLUSHING HYDRANT
 - PROPERTY SERVICE CONNECTION
 - 11.25° 22.5° 45° 60° HORIZONTAL BEND ANGLE IN MAIN
 - LIMIT OF SUBDIVISION WORKS
 - PROPOSED APZ
 - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - AS CONSTRUCTED STOP VALVE
 - AS CONSTRUCTED HYDRANT
 - AS CONSTRUCTED TAP
 - POTABLE WATER PROPERTY SERVICE CONNECTIONS
 - TOTAL 9 CONNECTIONS
 - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 8 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 0 x SHORT SIDE
 - 0 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	326
DN25 (LATERAL)	PE PN16	54

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 206.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 306.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.



WORK AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	13.08.2024	INITIAL ISSUE	G.S.	C.H.	G.S.	C.B.	A1 / A3 1:250 / 1:500
B	04.06.2025	REVISED PRELIMINARY ISSUE	T.A.	C.H.	G.S.	C.B.	
0	23.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
1	28.10.2025	AMENDED CONSTRUCTION ISSUE	M.S.	C.H.	C.H.	C.B.	
2	12.06.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.	

DESIGN FILE N:\190274\190274(ARIA)\DWG\Water & Sewer\WAT\STAGE 3\190274(ARIA)3-WAT-DESIGN.dwg

ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE.

Plotted By: timo Plot Date: 22/06/26 - 10:09 Cad File: N:\240072\DWG\Water & Sewer\Stage Aria 3 WAC\240072(ARIA)3-WAC-104.dwg

adw Johnson

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 Phone: (02) 4978 5100
 Fax: (02) 4978 5199
 email: hunter@adwjohnson.com.au
 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT

altogether.

PROPERTY DESCRIPTION

ARIA - STAGE 3
 WINE COUNTRY DRIVE
 HUNTLEE

SURVEYED DALEY.Smith Pty Ltd DATUM GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 1		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240074(ARIA)3 - WAC	-	101	2

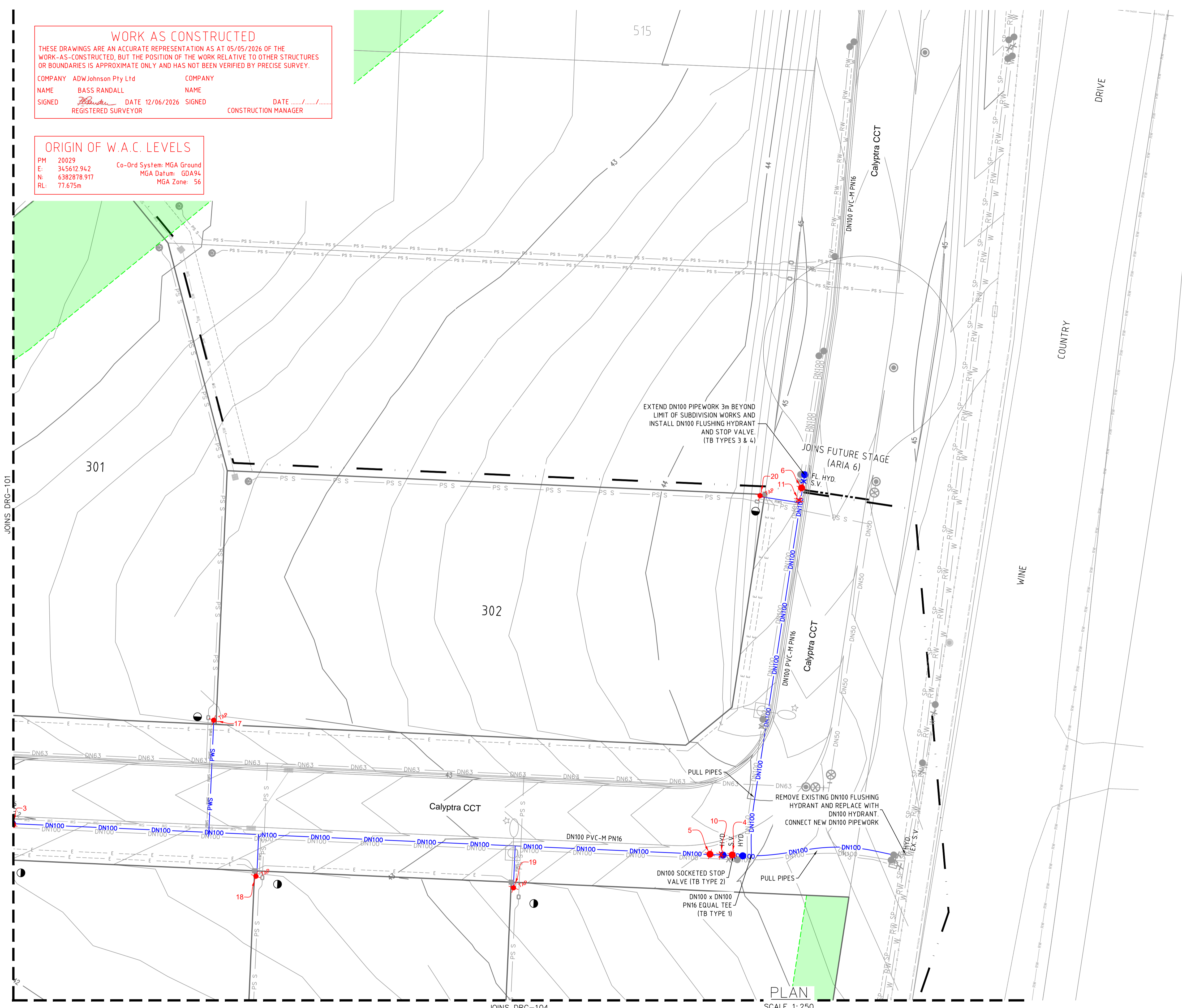
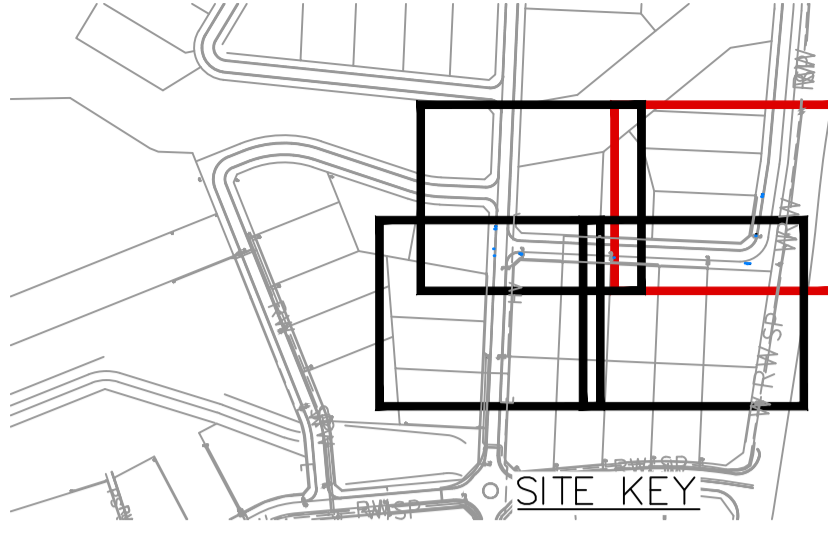
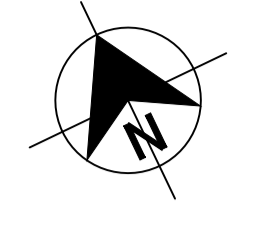
100mm AT FULL SIZE
 This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

240072(ARIA)3-WAC-104

WORK AS CONSTRUCTED
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 05/05/2026 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY ADW Johnson Pty Ltd COMPANY
 NAME BASS RANDALL NAME
 SIGNED *Bass Randall* DATE 12/06/2026 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
 PM 20029 Co-Ord System: MGA Ground
 E: 345612.942 MGA Datum: GDA94
 N: 6382878.917 MGA Zone: 56
 RL: 77.675m



- LEGEND**
- DN100 DN100 PN16 PVC-M POTABLE WATER RETICULATION (FUTURE STAGE)
 - DN100 DN100 PN16 PVC-M POTABLE WATER RETICULATION
 - PWS PE POTABLE WATER PROPERTY SERVICE
 - DN100 PVC-M RECYCLED WATER RETICULATION (FUTURE STAGE)
 - DN100 DN100 PN16 PVC-M RECYCLED WATER RETICULATION
 - RWS PE RECYCLED WATER PROPERTY SERVICE
 - DN50 DN50 PE PRESSURE SEWER RETICULATION
 - DN63 DN63 PE PRESSURE SEWER RETICULATION
 - DN75 DN75 PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - HV HV HV HIGH VOLTAGE ELECTRICAL SERVICE
 - E E E ELECTRICAL SERVICE
 - SW SW SW STORMWATER PIPEWORK
 - STORMWATER EASEMENT
 - STORMWATER PIT
 - ELECTRICAL PIT
 - S.V. STOP VALVE
 - S.V. NC. STOP VALVE NORMALLY CLOSED
 - HYD. HYDRANT
 - FL. HYD. FLUSHING HYDRANT
 - PROPERTY SERVICE CONNECTION
 - 11.25° 22.5° 45° 60° HORIZONTAL BEND ANGLE IN MAIN
 - LIMIT OF SUBDIVISION WORKS
 - PROPOSED APZ
 - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - AS CONSTRUCTED STOP VALVE
 - AS CONSTRUCTED HYDRANT
 - AS CONSTRUCTED TAP
 - POTABLE WATER PROPERTY SERVICE CONNECTIONS
 - TOTAL 9 CONNECTIONS
 - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 8 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 0 x SHORT SIDE
 - 0 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	326
DN25 (LATERAL)	PE PN16	54

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 206.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 306.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.



WORK AS CONSTRUCTED

100mm AT FULL SIZE
 This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	13.08.2024	INITIAL ISSUE	G.S.	C.H.	G.S.	C.B.	
B	04.06.2025	REVISED PRELIMINARY ISSUE	T.A.	C.H.	G.S.	C.B.	
0	23.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
1	28.10.2025	AMENDED CONSTRUCTION ISSUE	M.S.	C.H.	C.H.	C.B.	
2	12.06.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.	

DESIGN FILE N:\190274\190274(ARIA)\DWG\Water & Sewer\WAT\STAGE 3\190274(ARIA)3-WAT-DESIGN.dwg ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE

Plotted By: timo Plot Date: 22/06/26 - 10:09 Cad File: N:\240072\DWG\Water & Sewer\Stage Aria 3 WAC\240072(ARIA)3-WAC-104.dwg

adw Johnson

Hunter Office
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 email: hunter@adwjohnson.com.au
 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT

altogether.

PROPERTY DESCRIPTION

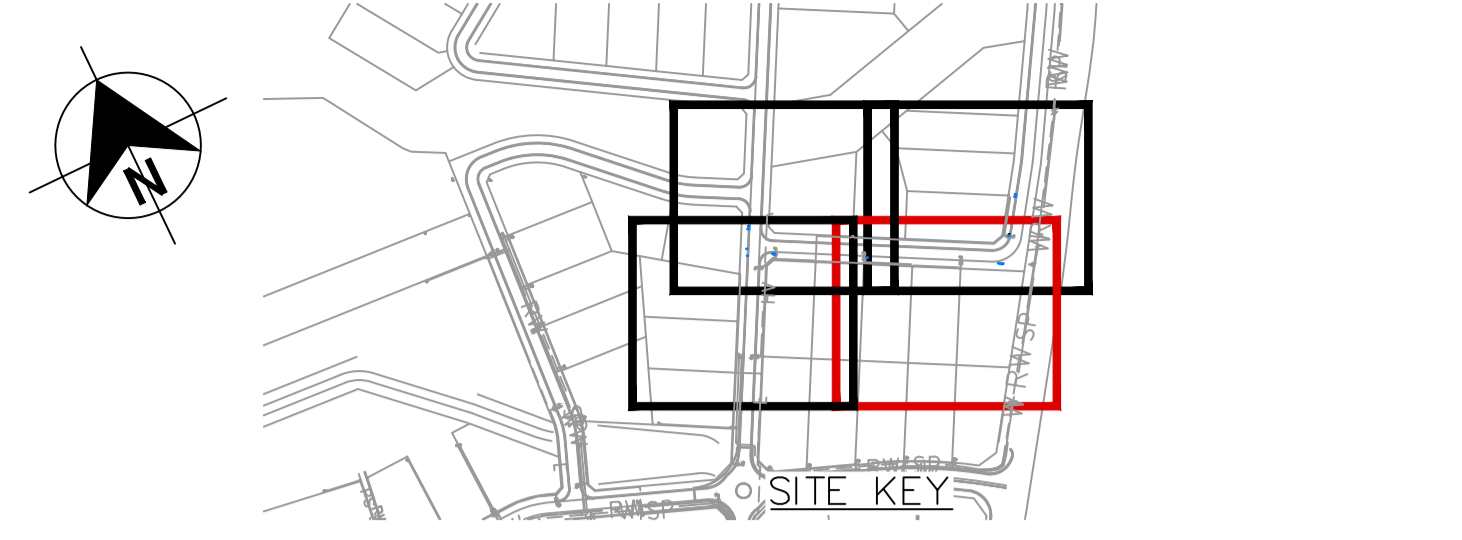
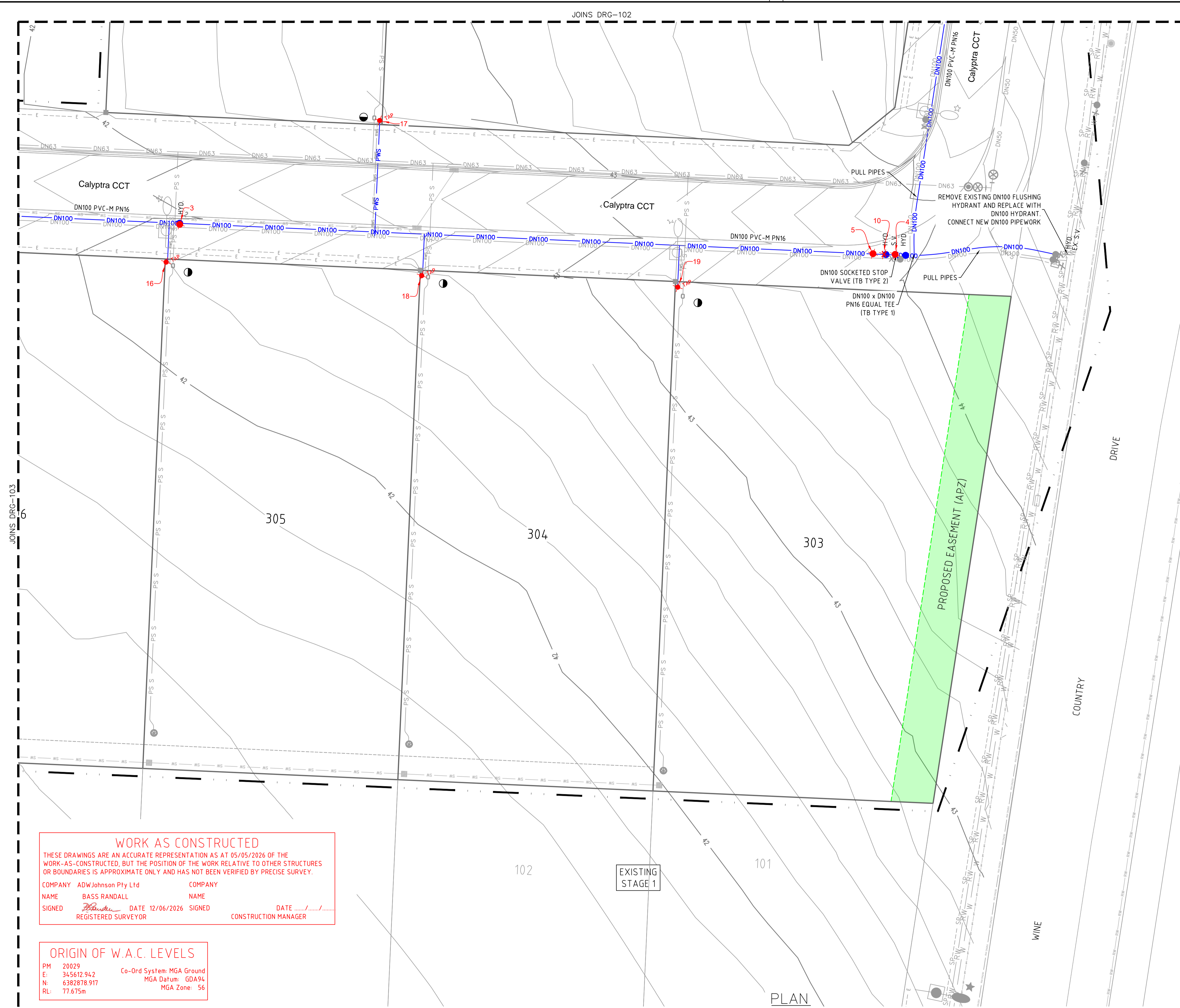
ARIA - STAGE 3
 WINE COUNTRY DRIVE
 HUNTLLEE

SURVEYED DALEY.Smith Pty Ltd DATUM GDA94 M.G.A. ZONE 56 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.
240074(ARIA)3 - WAC	-	102	2

240072(ARIA)3-WAC-104

100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.



- LEGEND**
- DN100 — DN100 PN16 PVC-M POTABLE WATER RETICULATION (FUTURE STAGE)
 - DN100 — DN100 PN16 PVC-M POTABLE WATER RETICULATION
 - PWS — PE POTABLE WATER PROPERTY SERVICE
 - DN100 — PVC-M RECYCLED WATER RETICULATION (FUTURE STAGE)
 - DN100 — DN100 PN16 PVC-M RECYCLED WATER RETICULATION
 - RWS — PE RECYCLED WATER PROPERTY SERVICE
 - DN50 — DN50 PE PRESSURE SEWER RETICULATION
 - DN63 — DN63 PE PRESSURE SEWER RETICULATION
 - DN75 — DN75 PE PRESSURE SEWER RETICULATION
 - PS S — PE PRESSURE SEWER PROPERTY SERVICE
 - HV — HIGH VOLTAGE ELECTRICAL SERVICE
 - E — ELECTRICAL SERVICE
 - SW — STORMWATER PIPEWORK
 - SW — STORMWATER EASEMENT
 - SW — STORMWATER PIT
 - SW — ELECTRICAL PIT
 - S.V. — STOP VALVE
 - S.V. N.C. — STOP VALVE NORMALLY CLOSED
 - HYD. — HYDRANT
 - FL. HYD. — FLUSHING HYDRANT
 - — PROPERTY SERVICE CONNECTION
 - 11.25° 22.5° 45° 60° — HORIZONTAL BEND ANGLE IN MAIN
 - — LIMIT OF SUBDIVISION WORKS
 - — PROPOSED APZ
 - — LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - * — AS CONSTRUCTED STOP VALVE
 - ♦ — AS CONSTRUCTED HYDRANT
 - ♦ — AS CONSTRUCTED TAP
 - — POTABLE WATER PROPERTY SERVICE CONNECTIONS
 - TOTAL 9 CONNECTIONS
 - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 8 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 0 x SHORT SIDE
 - 0 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	326
DN25 (LATERAL)	PE PN16	54

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 206.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 306.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 05/05/2026 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY ADWJohnson Pty Ltd COMPANY
 NAME BASS RANDALL NAME
 SIGNED [Signature] DATE 12/06/2026 SIGNED [Signature] DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM 20029
 E: 345612.942 Co-Ord System: MGA Ground
 N: 6382878.917 MGA Datum: GDA94
 RL: 77.675m MGA Zone: 56

PLAN
SCALE 1:250



WORK AS CONSTRUCTED

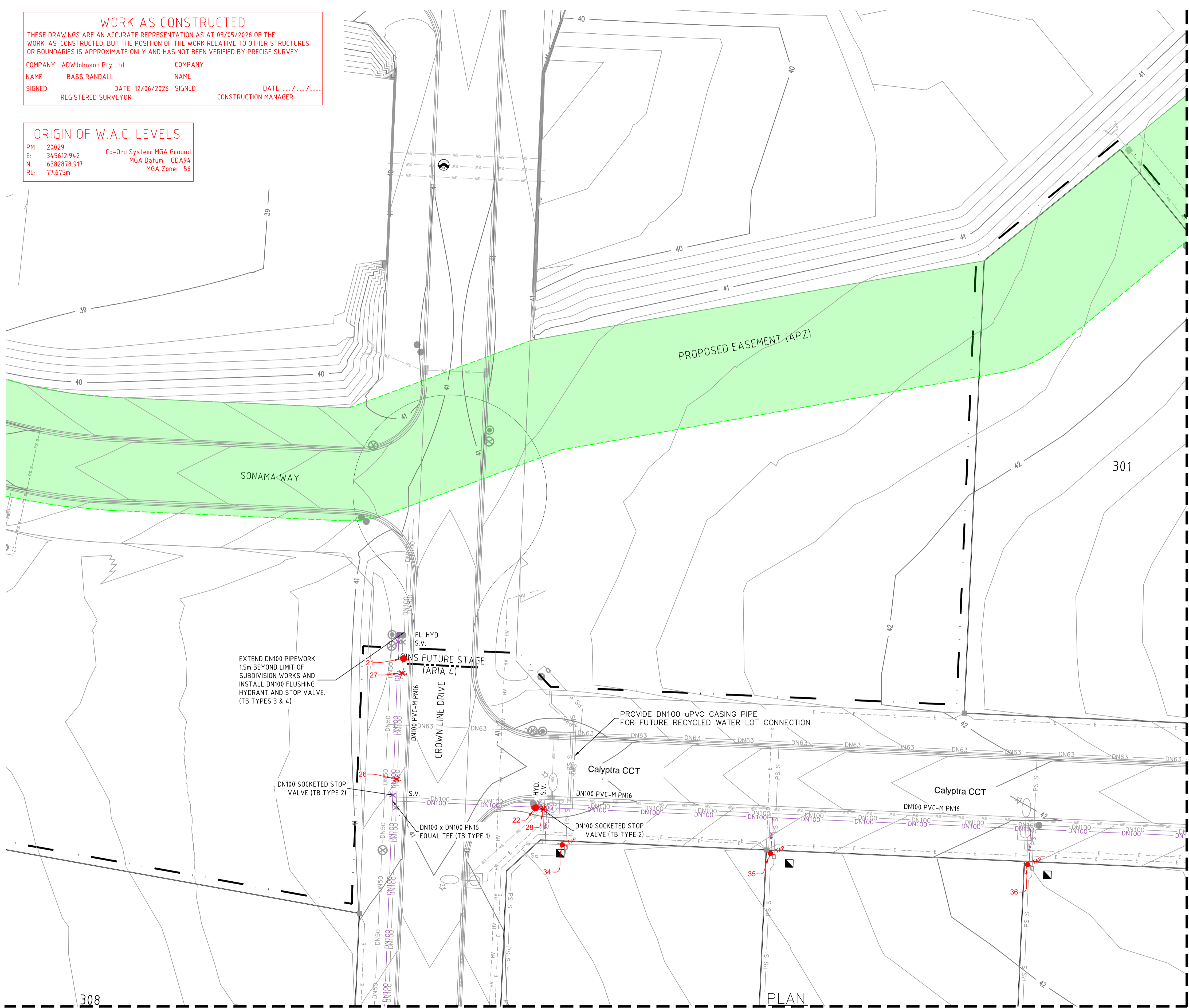
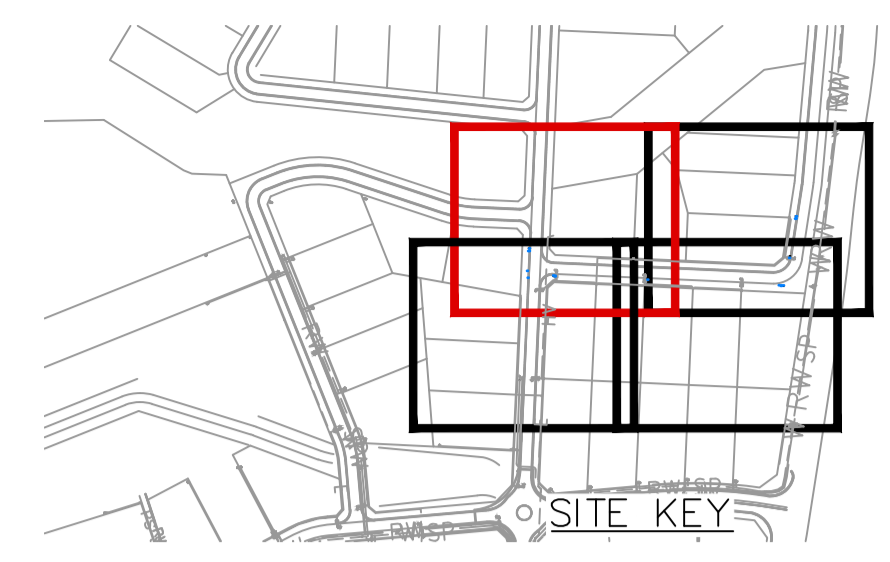
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	13.08.2024	INITIAL ISSUE	G.S.	C.H.	G.S.	C.B.	 A1 / A3 1:250 / 1:500	Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	ARIA - STAGE 3 WINE COUNTRY DRIVE HUNTLLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	POTABLE WATER DETAIL PLAN - SHEET 4	240074(ARIA)3 - WAC	-	104	2
B	04.06.2025	REVISED PRELIMINARY ISSUE	T.A.	C.H.	G.S.	C.B.									
0	23.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.									
1	28.10.2025	AMENDED CONSTRUCTION ISSUE	M.S.	C.H.	C.H.	C.B.									
2	12.06.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.									

240072(ARIA)3-WAC-203

WORK AS CONSTRUCTED
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 05/05/2026 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY ADW Johnson Pty Ltd COMPANY
 NAME BASS RANDALL NAME
 SIGNED DATE 12/06/2026 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
 PM 20029 Co-Ord System: MGA Ground
 E: 345612.942 MGA Datum: GDA94
 N: 6382878.917 MGA Zone: 56
 RL: 77.675m



- LEGEND**
- DN100 PVC-M POTABLE WATER RETICULATION (FUTURE STAGE)
 - DN100 PN16 PVC-M POTABLE WATER RETICULATION
 - PWS PE POTABLE WATER PROPERTY SERVICE
 - DN100 PVC-M RECYCLED WATER RETICULATION (FUTURE STAGE)
 - DN100 PN16 PVC-M RECYCLED WATER RETICULATION
 - RWS PE RECYCLED WATER PROPERTY SERVICE
 - DN50 PE PRESSURE SEWER RETICULATION
 - DN63 PE PRESSURE SEWER RETICULATION
 - DN75 PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - HW HIGH VOLTAGE ELECTRICAL SERVICE
 - E ELECTRICAL SERVICE
 - SW STORMWATER PIPEWORK
 - STORMWATER EASEMENT
 - STORMWATER PIT
 - ELECTRICAL PIT
 - S.V. STOP VALVE
 - S.V. N.C. STOP VALVE NORMALLY CLOSED
 - HYD. HYDRANT
 - FL. HYD. FLUSHING HYDRANT
 - PROPERTY SERVICE CONNECTION
 - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED APZ
 - 11.25° 22.5° 45° 90° HORIZONTAL BEND ANGLE IN MAIN
 - LIMIT OF SUBDIVISION WORKS
 - AS CONSTRUCTED STOP VALVE
 - AS CONSTRUCTED HYDRANT
 - AS CONSTRUCTED TAP
 - RECYCLED WATER PROPERTY SERVICE CONNECTIONS
 - TOTAL 9 CONNECTIONS
 - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 8 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 0 x SHORT SIDE
 - 0 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	326
DN32 (LATERAL)	PE PN16	51

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 106.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 306.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.



WORK AS CONSTRUCTED

100mm AT FULL SIZE
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REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	13.08.2024	INITIAL ISSUE	G.S.	C.H.	G.S.	C.B.	A1 / A3
B	04.06.2025	REVISED PRELIMINARY ISSUE	T.A.	C.H.	G.S.	C.B.	1:250 / 1:500
0	23.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
1	28.10.2025	AMENDED CONSTRUCTION ISSUE	M.S.	C.H.	C.H.	C.B.	
2	12.06.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.	

DESIGN FILE N:\190274\190274(ARIA)\DWG\Water & Sewer\WAT\STAGE 3\190274(ARIA)3-WAT-DESIGN.dwg
 ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE

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

PROPERTY DESCRIPTION

ARIA - STAGE 3
 WINE COUNTRY DRIVE
 HUNTLEE

SURVEYED DALEY.Smith Pty Ltd
 DATUM GDA94 M.G.A. ZONE 56 A.H.D.

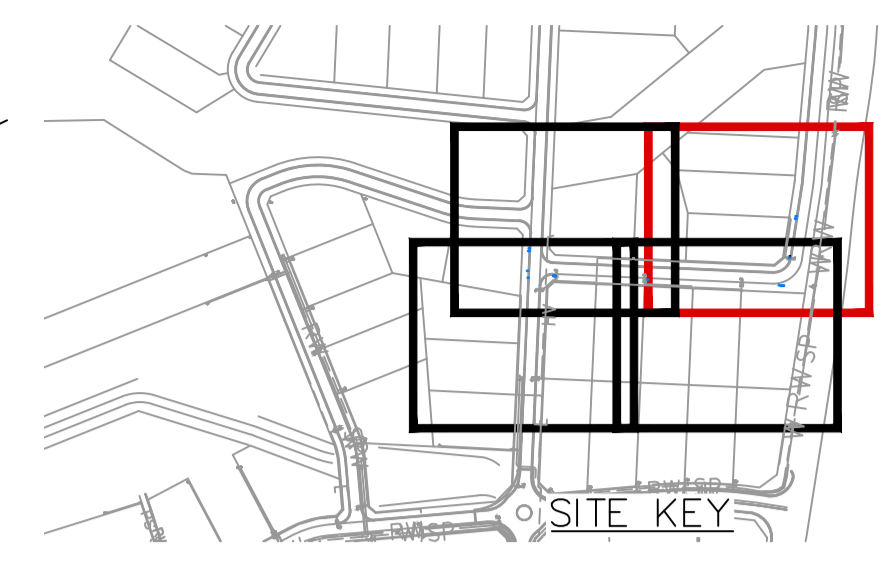
PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 1		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240074(ARIA)3 - WAC	-	201	2

WORK AS CONSTRUCTED
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COMPANY ADWJohnson Pty Ltd COMPANY
 NAME BASS RANDALL NAME
 SIGNED REGISTERED SURVEYOR DATE 12/06/2026 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM 20029
 E: 345612.942 Co-Ord System: MGA Ground
 N: 6382878.917 MGA Datum: GDA94
 RL: 77.675m MGA Zone: 56



- LEGEND**
- DN100 PVC-M POTABLE WATER RETICULATION (FUTURE STAGE)
 - DN100 PN16 PVC-M POTABLE WATER RETICULATION
 - PWS PE POTABLE WATER PROPERTY SERVICE
 - DN100 PVC-M RECYCLED WATER RETICULATION (FUTURE STAGE)
 - DN100 PN16 PVC-M RECYCLED WATER RETICULATION
 - RWS PE RECYCLED WATER PROPERTY SERVICE
 - DN50 PE PRESSURE SEWER RETICULATION
 - DN63 DN63 PE PRESSURE SEWER RETICULATION
 - DN75 DN75 PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - HW HIGH VOLTAGE ELECTRICAL SERVICE
 - E ELECTRICAL SERVICE
 - SW STORMWATER PIPEWORK
 - SW STORMWATER EASEMENT
 - SW STORMWATER PIT
 - SW ELECTRICAL PIT
 - S.V. STOP VALVE
 - S.V. N.C. STOP VALVE NORMALLY CLOSED
 - HYD. HYDRANT
 - FL. HYD. FLUSHING HYDRANT
 - PS S PROPERTY SERVICE CONNECTION
 - SW LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED APZ
 - 11.25° 22.5° 45° 90° HORIZONTAL BEND ANGLE IN MAIN
 - LIMIT OF SUBDIVISION WORKS
 - AS CONSTRUCTED STOP VALVE
 - AS CONSTRUCTED HYDRANT
 - AS CONSTRUCTED TAP
 - RECYCLED WATER PROPERTY SERVICE CONNECTIONS
 - TOTAL 9 CONNECTIONS
 - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 8 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 0 x SHORT SIDE
 - 0 x LONG SIDE

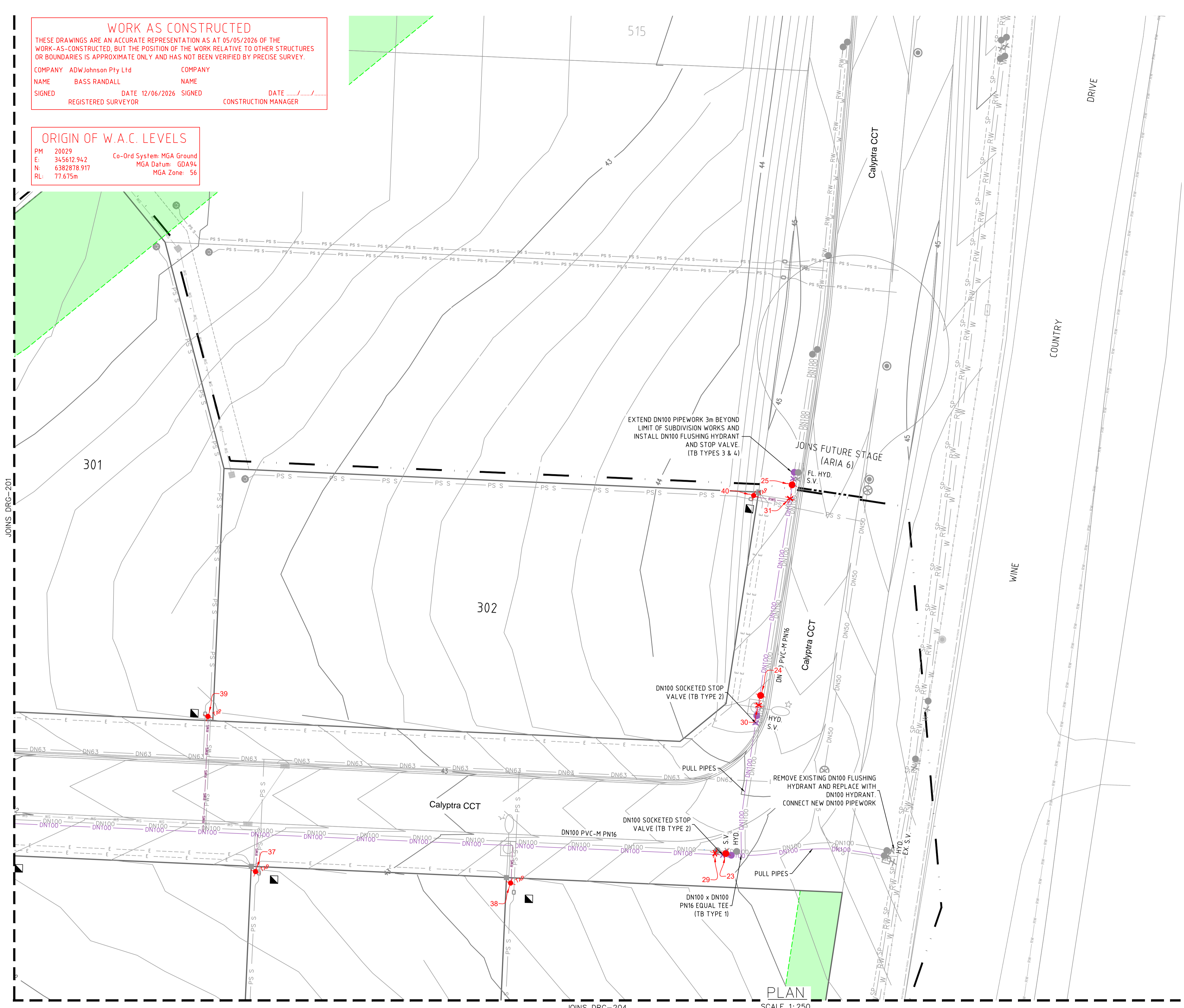
RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	326
DN32 (LATERAL)	PE PN16	51

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 106.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 306.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.



WORK AS CONSTRUCTED

100mm AT FULL SIZE
 This plan includes coloured information. If you have a black and white copy you do not have all of this information. This note is coloured RED.



REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	13.08.2024	INITIAL ISSUE	G.S.	C.H.	G.S.	C.B.	 A1 / A3 1:250 / 1:500
B	04.06.2025	REVISED PRELIMINARY ISSUE	T.A.	C.H.	G.S.	C.B.	
0	23.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
1	28.10.2025	AMENDED CONSTRUCTION ISSUE	M.S.	C.H.	C.H.	C.B.	
2	12.06.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.	

DESIGN FILE N:\190274\190274(ARIA)\DWG\Water & Sewer\WAT\STAGE 3\190274(ARIA)3-WAT-DESIGN.dwg ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE

Plotted By: tima Plot Date: 22/06/26 - 10:09 Cad File: N:\240072\DWG\Water & Sewer\Stage Aria 3 WAC\240072(ARIA)3-WAC-203.dwg

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 Fax: (02) 4978 5199
 email: hunter@adwjohnson.com.au
 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT

altogether.

PROPERTY DESCRIPTION

ARIA - STAGE 3
 WINE COUNTRY DRIVE
 HUNTLÉE

SURVEYED DALEY.Smith Pty Ltd DATUM GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 2		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240074(ARIA)3 - WAC	-	202	2

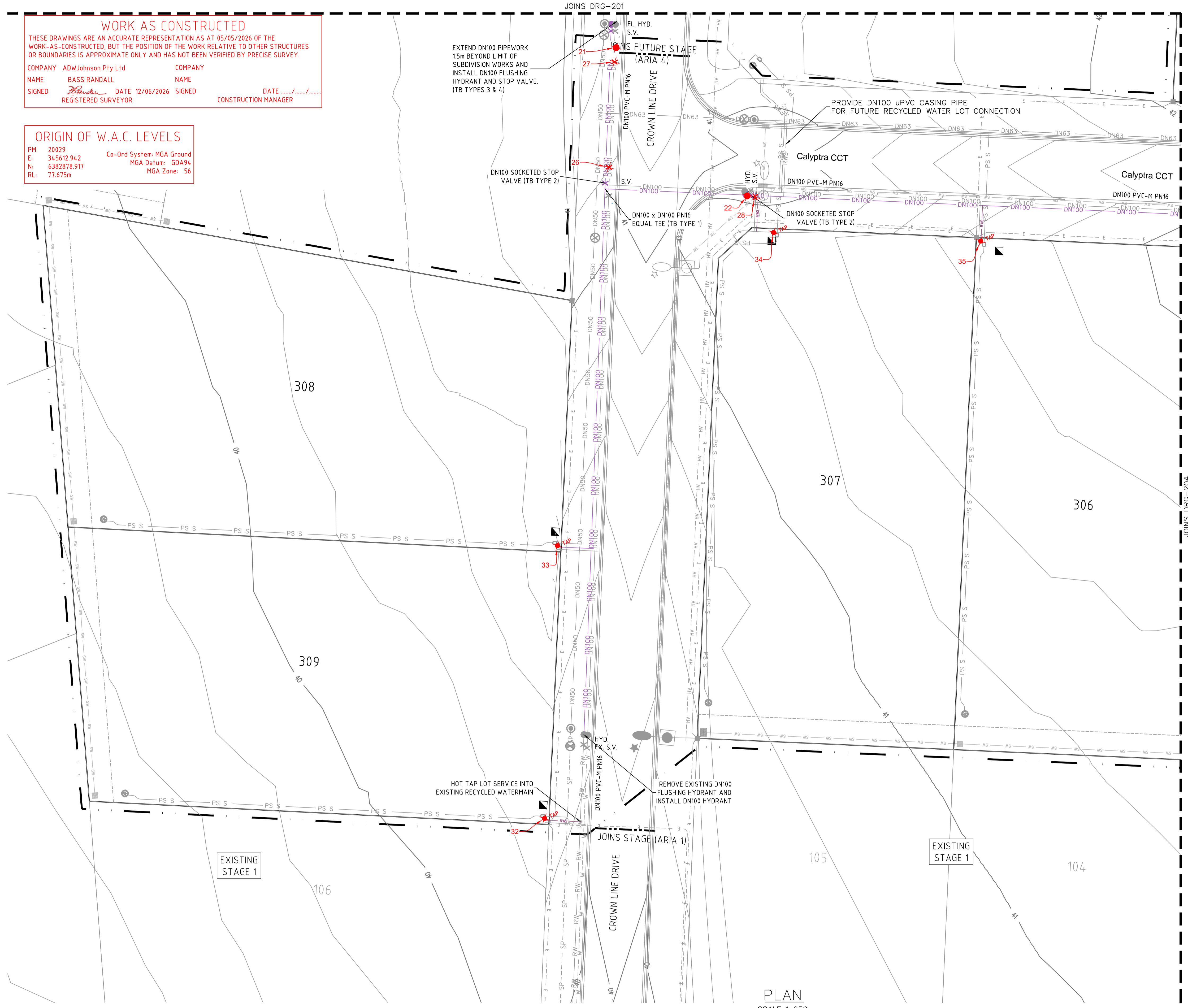
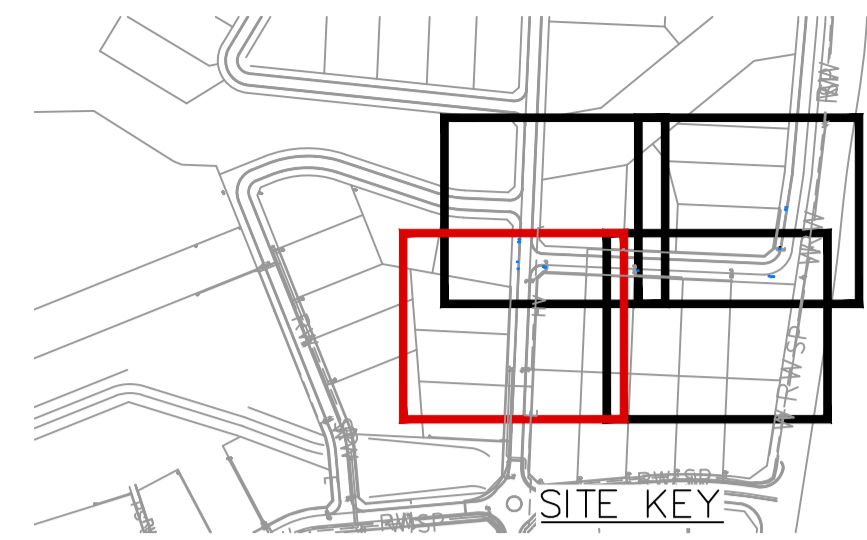
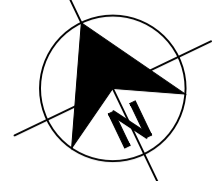
240072(ARIA)3-WAC-203

WORK AS CONSTRUCTED
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 COMPANY ADW Johnson Pty Ltd COMPANY
 NAME BASS RANDALL NAME
 SIGNED *[Signature]* DATE 12/06/2026 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
 PM 20029 Co-Ord System: MGA Ground
 E: 345612.942 MGA Datum: GDA94
 N: 6382878.917 MGA Zone: 56
 RL: 77.675m

EXTEND DN100 PIPEWORK 15m BEYOND LIMIT OF SUBDIVISION WORKS AND INSTALL DN100 FLUSHING HYDRANT AND STOP VALVE. (TB TYPES 3 & 4)

PROVIDE DN100 uPVC CASING PIPE FOR FUTURE RECYCLED WATER LOT CONNECTION



- LEGEND**
- DN100 PVC-M POTABLE WATER RETICULATION (FUTURE STAGE)
 - DN100 PN16 PVC-M POTABLE WATER RETICULATION
 - PWS PE POTABLE WATER PROPERTY SERVICE
 - DN100 PVC-M RECYCLED WATER RETICULATION (FUTURE STAGE)
 - DN100 PN16 PVC-M RECYCLED WATER RETICULATION
 - RWS PE RECYCLED WATER PROPERTY SERVICE
 - DN50 PE PRESSURE SEWER RETICULATION
 - DN63 PE PRESSURE SEWER RETICULATION
 - DN75 PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - HW HIGH VOLTAGE ELECTRICAL SERVICE
 - E ELECTRICAL SERVICE
 - SW STORMWATER PIPEWORK
 - SW STORMWATER EASEMENT
 - SW STORMWATER PIT
 - SW ELECTRICAL PIT
 - S.V. STOP VALVE
 - S.V. N.C. STOP VALVE NORMALLY CLOSED
 - HYD. HYDRANT
 - FL. HYD. FLUSHING HYDRANT
 - PS S PROPERTY SERVICE CONNECTION
 - SW LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED APZ
 - HORIZONTAL BEND ANGLE IN MAIN (11.25°, 22.5°, 45°, 90°)
 - LIMIT OF SUBDIVISION WORKS
 - AS CONSTRUCTED STOP VALVE
 - AS CONSTRUCTED HYDRANT
 - AS CONSTRUCTED TAP
 - RECYCLED WATER PROPERTY SERVICE CONNECTIONS
 - TOTAL 9 CONNECTIONS
 - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 8 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 0 x SHORT SIDE
 - 0 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	326
DN32 (LATERAL)	PE PN16	51

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 106.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 306.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.



WORK AS CONSTRUCTED

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B	04.06.2025	REVISED PRELIMINARY ISSUE	T.A.	C.H.	G.S.	C.B.	
0	23.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
1	28.10.2025	AMENDED CONSTRUCTION ISSUE	M.S.	C.H.	C.H.	C.B.	
2	12.06.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.	

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 www.adwjohnson.com.au
 ABN 62 129 445 398

altogether.
 CLIENT

PROPERTY DESCRIPTION
 ARIA - STAGE 3
 WINE COUNTRY DRIVE
 HUNTLEE

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 3		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240074(ARIA)3 - WAC	-	203	2

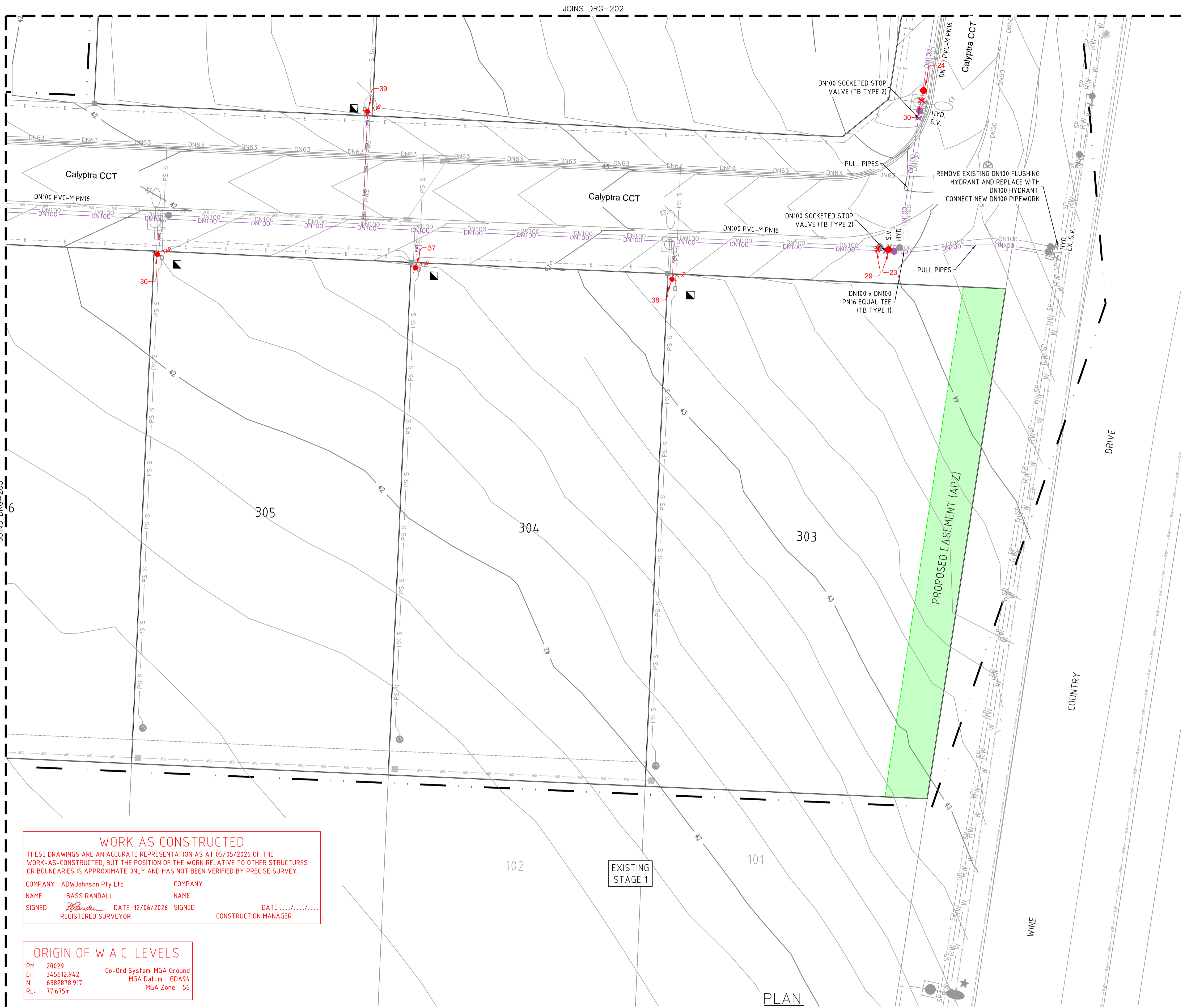
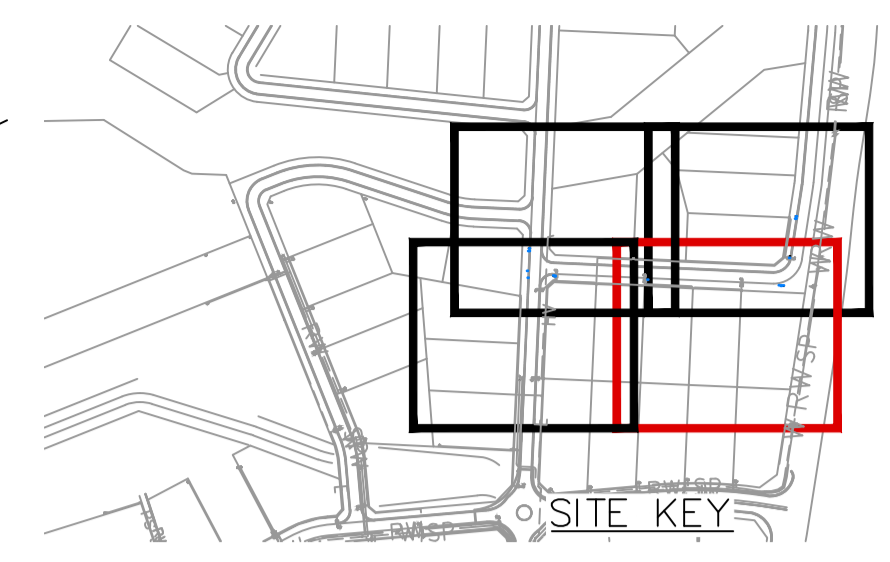
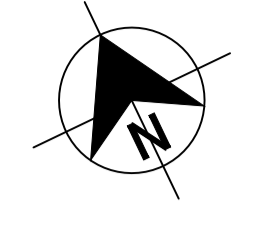
100mm AT FULL SIZE
 This plan includes coloured information. If you have a black and white copy you do not have all of this information. This note is coloured RED.

240072(ARIA)3-WAC-203

JOINS DRG-203

100mm AT FULL SIZE
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JOINS DRG-202



- LEGEND**
- DN100 PVC-M POTABLE WATER RETICULATION (FUTURE STAGE)
 - DN100 PN16 PVC-M POTABLE WATER RETICULATION
 - PWS PE POTABLE WATER PROPERTY SERVICE
 - DN100 PVC-M RECYCLED WATER RETICULATION (FUTURE STAGE)
 - DN100 PN16 PVC-M RECYCLED WATER RETICULATION
 - RWS PE RECYCLED WATER PROPERTY SERVICE
 - DN50 PE PRESSURE SEWER RETICULATION
 - DN63 PE PRESSURE SEWER RETICULATION
 - DN75 PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - HW HIGH VOLTAGE ELECTRICAL SERVICE
 - E ELECTRICAL SERVICE
 - SW STORMWATER PIPEWORK
 - SW STORMWATER EASEMENT
 - SW STORMWATER PIT
 - SW ELECTRICAL PIT
 - S.V. STOP VALVE
 - S.V. N.C. STOP VALVE NORMALLY CLOSED
 - HYD. HYDRANT
 - FL. HYD. FLUSHING HYDRANT
 - PS S PROPERTY SERVICE CONNECTION
 - SW LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED APZ
 - 11.25° 22.5° 45° 90° HORIZONTAL BEND ANGLE IN MAIN
 - LIMIT OF SUBDIVISION WORKS
 - AS CONSTRUCTED STOP VALVE
 - AS CONSTRUCTED HYDRANT
 - AS CONSTRUCTED TAP
- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 9 CONNECTIONS
 • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 8 x SHORT SIDE
 - 1 x LONG SIDE
 • SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 0 x SHORT SIDE
 - 0 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	326
DN32 (LATERAL)	PE PN16	51

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 106.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 306.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

WORK AS CONSTRUCTED
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 05/05/2026 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY ADWJohnson Pty Ltd COMPANY
 NAME BASS RANDALL NAME
 SIGNED *Bass Randall* DATE 12/06/2026 SIGNED _____ DATE _____
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
 PM 20029
 E: 345612.942 Co-Ord System: MGA Ground
 N: 6382878.917 MGA Datum: GDA94
 RL: 77.675m MGA Zone: 56

EXISTING STAGE 1

PLAN SCALE 1: 250



WORK AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	13.08.2024	INITIAL ISSUE	G.S.	C.H.	G.S.	C.B.		altogether. Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohanson.com.au www.adwjohanson.com.au ABN 62 129 445 398	ARIA - STAGE 3 WINE COUNTRY DRIVE HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	RECYCLED WATER DETAIL PLAN - SHEET 4	240074(ARIA)3 - WAC	A.H.D.	204	2
B	04.06.2025	REVISED PRELIMINARY ISSUE	T.A.	C.H.	G.S.	C.B.									
0	23.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.									
1	28.10.2025	AMENDED CONSTRUCTION ISSUE	M.S.	C.H.	C.H.	C.B.									
2	12.06.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.									

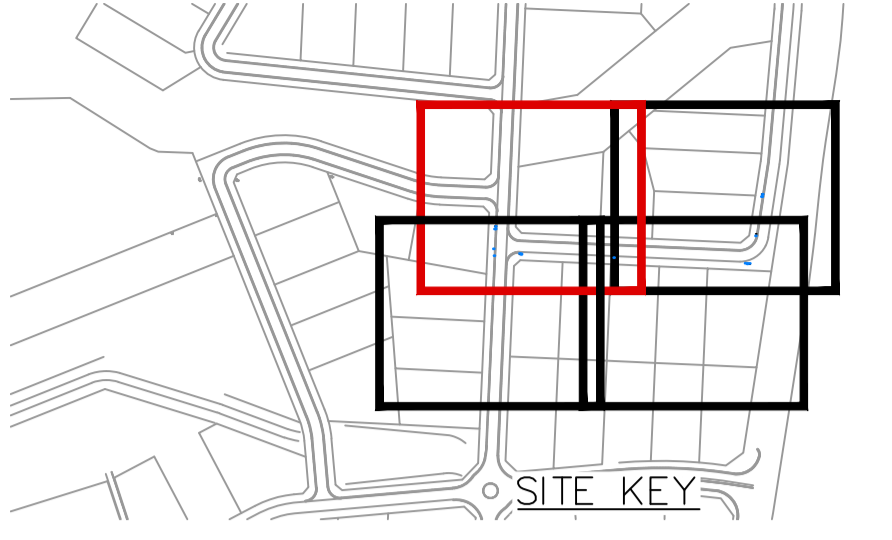
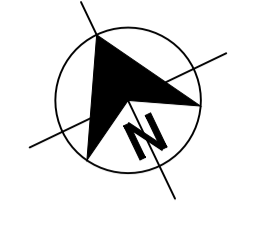
240072(ARIA)3-WAC-304

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COMPANY ADW Johnson Pty Ltd COMPANY
 NAME BASS RANDALL NAME
 SIGNED *Bass Randall* DATE 12/06/2026 SIGNED _____ DATE _____
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM 20029 Co-Ord System: MGA Ground
 E: 345612.942 MGA Datum: GDA94
 N: 6382878.917 MGA Zone: 56
 RL: 77.675m



- LEGEND**
- DN100 PVC-M POTABLE WATER RETICULATION (FUTURE STAGE)
 - PWS PE POTABLE WATER PROPERTY SERVICE
 - DN100 DN100 PN16 PVC-M POTABLE WATER RETICULATION
 - DN100 PVC-M RECYCLED WATER RETICULATION (FUTURE STAGE)
 - DN100 DN100 PN16 PVC-M RECYCLED WATER RETICULATION
 - RWS PE RECYCLED WATER PROPERTY SERVICE
 - DN50 DN50 PE PRESSURE SEWER RETICULATION
 - DN63 DN63 PE PRESSURE SEWER RETICULATION
 - DN75 DN75 PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - HV HV HIGH VOLTAGE ELECTRICAL SERVICE
 - E E ELECTRICAL SERVICE
 - SW SW STORMWATER PIPEWORK
 - STORMWATER EASEMENT
 - STORMWATER PIT
 - ELECTRICAL PIT
 - I.V. ISOLATION VALVE
 - I.V. (N.C.) ISOLATION VALVE (NORMALLY CLOSED)
 - F.P. FLUSHING POINT
 - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - PRESSURE SEWER FLOW DIRECTION
 - PRESSURE SEWER TEMPORARY FLOW DIRECTION
 - PROPERTY SERVICE CONNECTION
 - LAY PRESSURE SEWER MAIN OVER OTHER SERVICES
 - LAY PRESSURE SEWER MAIN UNDER OTHER SERVICES
 - LIMIT OF SUBDIVISION WORKS
 - PROPOSED APZ
 - LIMIT OF POWER CABLE REACH FOR STANDARD E-ONE TANKS = 30m. IF CABLE PATH FROM THE TANK TO THE ELECTRICAL CONTROL BOX IS GREATER THAN 30m, OWNER/CONTRACTOR IS TO ADVISE ALTOGETHER GROUP OF THE NEED FOR A LONGER CABLE LENGTH TO SUIT.
 - AS CONSTRUCTED ISOLATION VALVE
 - AS CONSTRUCTED FLUSHING POINT
 - AS CONSTRUCTED BOUNDARY KIT
 - AS CONSTRUCTED WASTEWATER COLLECTION TANK

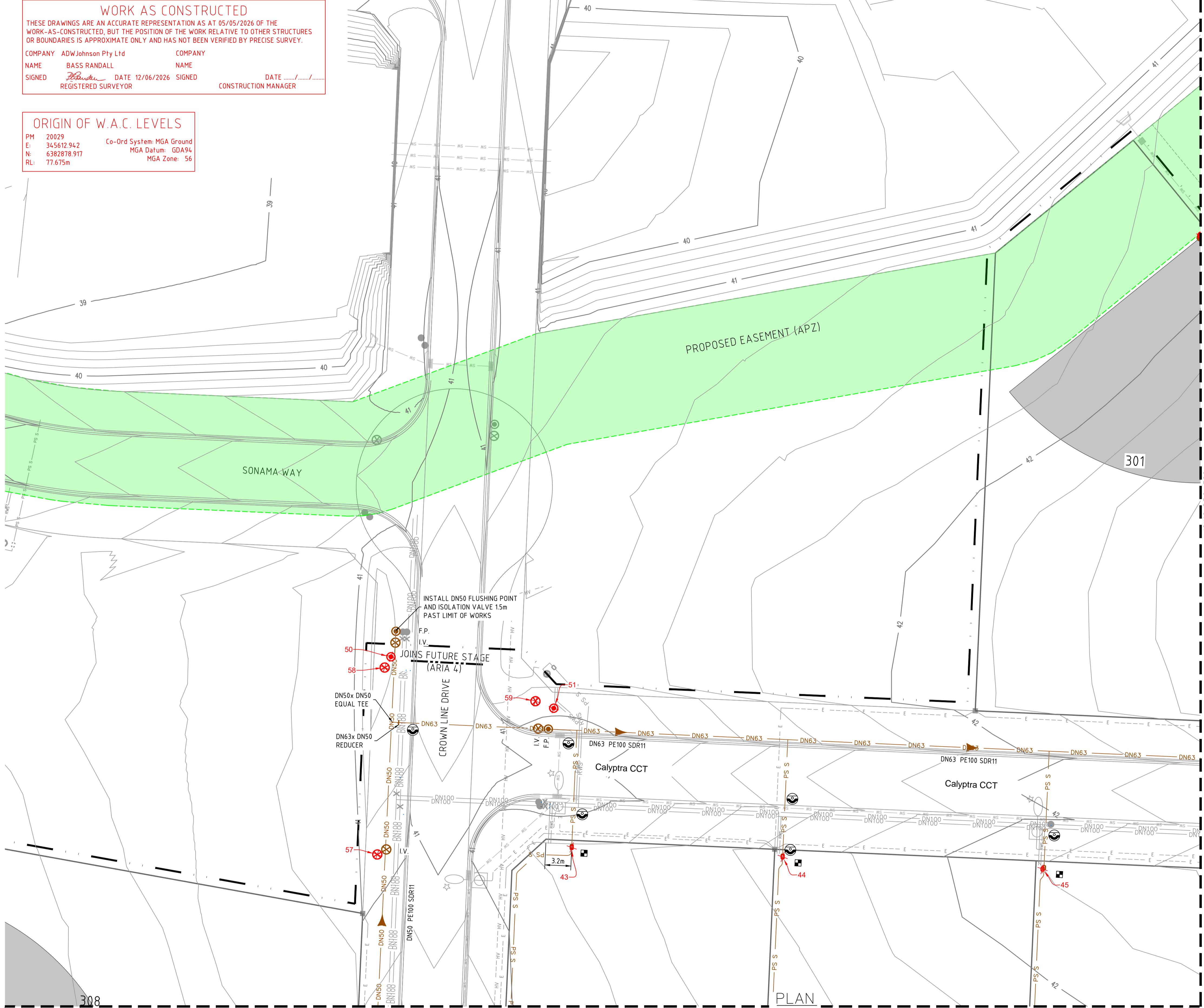
PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 9 CONNECTIONS
 • SINGLE SERVICES
 - 3 x SHORT SIDE
 - 6 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE PN16	14
DN63	PE PN16	182
DN50	PE PN16	126
DN50 (LATERAL)	PE PN16	618

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 106.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 206.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - 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).



WORK AS CONSTRUCTED



PLAN SCALE 1:250

100mm AT FULL SIZE
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REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	13.08.2024	INITIAL ISSUE	G.S.	C.H.	G.S.	C.B.	
B	04.06.2025	REVISED PRELIMINARY ISSUE	T.A.	C.H.	G.S.	C.B.	
0	23.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
1	28.10.2025	AMENDED CONSTRUCTION ISSUE	M.S.	C.H.	C.H.	C.B.	
2	12.06.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.	

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 email: hunter@adwjohnson.com.au
 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION
 ARIA - STAGE 3
 WINE COUNTRY DRIVE
 HUNTTLEE

SURVEYED DALEY.Smith Pty Ltd
 DATUM GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	PRESSURE SEWER DETAIL PLAN - SHEET 1		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240074(ARIA)3 - WAC	-	301	2

240072(ARIA)3-WAC-304

JOINS DRG-301

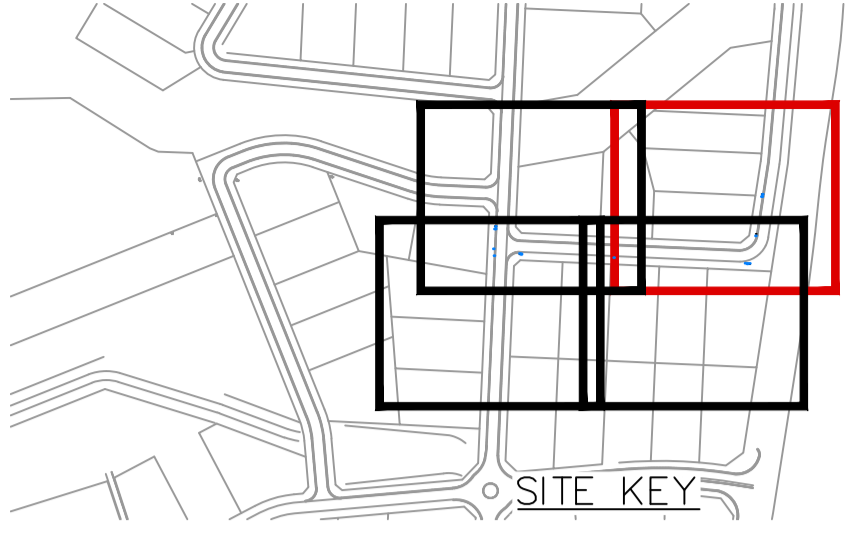
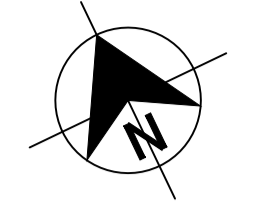
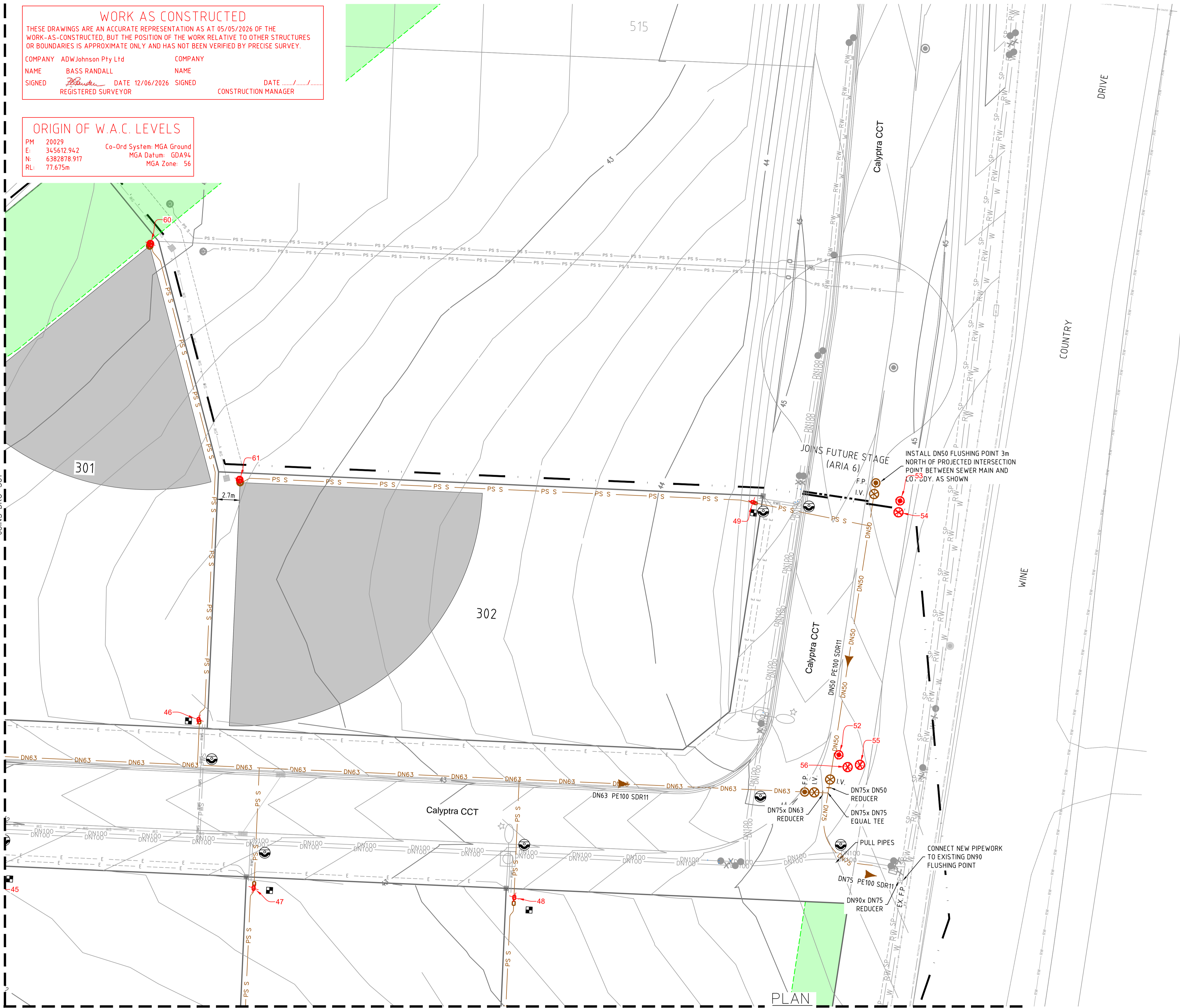
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COMPANY ADW Johnson Pty Ltd COMPANY
 NAME BASS RANDALL NAME
 SIGNED *[Signature]* DATE 12/06/2026 SIGNED _____ DATE _____
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM 20029 Co-Ord System: MGA Ground
 E: 345612.942 MGA Datum: GDA94
 N: 6382878.917 MGA Zone: 56
 RL: 77.675m



- LEGEND**
- DN100 PVC-M POTABLE WATER RETICULATION (FUTURE STAGE)
 - PWS PE POTABLE WATER PROPERTY SERVICE
 - DN100 DN100 PN16 PVC-M POTABLE WATER RETICULATION
 - DN100 PVC-M RECYCLED WATER RETICULATION (FUTURE STAGE)
 - DN100 DN100 PN16 PVC-M RECYCLED WATER RETICULATION
 - RWS PE RECYCLED WATER PROPERTY SERVICE
 - DN50 DN50 PE PRESSURE SEWER RETICULATION
 - DN63 DN63 PE PRESSURE SEWER RETICULATION
 - DN75 DN75 PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - HV HIGH VOLTAGE ELECTRICAL SERVICE
 - E ELECTRICAL SERVICE
 - SW STORMWATER PIPEWORK
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 - F.P. FLUSHING POINT
 - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - PRESSURE SEWER FLOW DIRECTION
 - PRESSURE SEWER TEMPORARY FLOW DIRECTION
 - PROPERTY SERVICE CONNECTION
 - LAY PRESSURE SEWER MAIN OVER OTHER SERVICES
 - LAY PRESSURE SEWER MAIN UNDER OTHER SERVICES
 - LIMIT OF SUBDIVISION WORKS
 - PROPOSED APZ
 - LIMIT OF POWER CABLE REACH FOR STANDARD E-ONE TANKS = 30m. IF CABLE PATH FROM THE TANK TO THE ELECTRICAL CONTROL BOX IS GREATER THAN 30m, OWNER/CONSTRUCTION CONTRACTOR IS TO ADVISE ALTOGETHER GROUP OF THE NEED FOR A LONGER CABLE LENGTH TO SUIT.
 - AS CONSTRUCTED ISOLATION VALVE
 - AS CONSTRUCTED FLUSHING POINT
 - AS CONSTRUCTED BOUNDARY KIT
 - AS CONSTRUCTED WASTEWATER COLLECTION TANK

PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 9 CONNECTIONS
 • SINGLE SERVICES
 - 3 x SHORT SIDE
 - 6 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE PN16	14
DN63	PE PN16	182
DN50	PE PN16	126
DN50 (LATERAL)	PE PN16	618

- NOTES:**
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 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - 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).



WORK AS CONSTRUCTED

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DESIGN FILE N:\190274\190274(ARIA)\DWG\Water & Sewer\WAT\STAGE 3\190274(ARIA)3-WAT-DESIGN.dwg

ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE.

Plotted By: timo Plot Date: 22/06/26 - 10:10 Cad File: N:\240072\DWG\Water & Sewer\Stage Aria 3 WAC\240072(ARIA)3-WAC-304.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

altogether.

PROPERTY DESCRIPTION

ARIA - STAGE 3
 WINE COUNTRY DRIVE
 HUNTLLEE

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	PRESSURE SEWER DETAIL PLAN - SHEET 2		
SURVEYED	DATUM	A.H.D.	PROJECT No.
DALEY.Smith Pty Ltd	GDA94 M.G.A. ZONE 56		240074(ARIA)3 - WAC
			DISCIPLINE - NUMBER
			302
			REV. 2

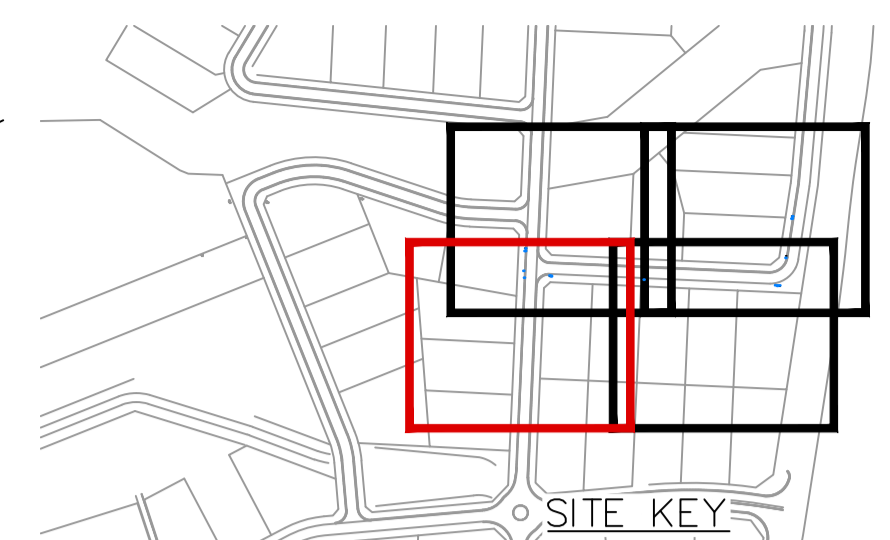
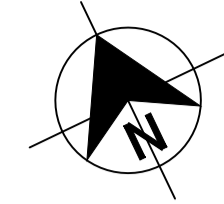
240072(ARIA)3-WAC-304

WORK AS CONSTRUCTED
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 05/05/2026 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY ADW Johnson Pty Ltd COMPANY
 NAME BASS RANDALL NAME
 SIGNED *Bass Randall* DATE 12/06/2026 SIGNED _____ DATE _____
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM 20029 Co-Ord System: MGA Ground
 E: 345612.942 MGA Datum: GDA94
 N: 6382878.917 MGA Zone: 56
 RL: 77.675m



- LEGEND**
- DN100 PVC-M POTABLE WATER RETICULATION (FUTURE STAGE)
 - PWS POTABLE WATER PROPERTY SERVICE
 - DN100 PN16 PVC-M POTABLE WATER RETICULATION
 - DN100 PVC-M RECYCLED WATER RETICULATION (FUTURE STAGE)
 - DN100 PN16 PVC-M RECYCLED WATER RETICULATION
 - RWS PE RECYCLED WATER PROPERTY SERVICE
 - DN50 PE PRESSURE SEWER RETICULATION
 - DN63 PE PRESSURE SEWER RETICULATION
 - DN75 PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - HV HIGH VOLTAGE ELECTRICAL SERVICE
 - E ELECTRICAL SERVICE
 - SW STORMWATER PIPEWORK
 - SW STORMWATER EASEMENT
 - Stormwater Pit
 - Electrical Pit
 - I.V. ISOLATION VALVE
 - I.V. (N.C.) ISOLATION VALVE (NORMALLY CLOSED)
 - F.P. FLUSHING POINT
 - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - Pressure Sewer Flow Direction
 - Pressure Sewer Temporary Flow Direction
 - Property Service Connection
 - Lay Pressure Sewer Main Over Other Services
 - Lay Pressure Sewer Main Under Other Services
 - LIMIT OF SUBDIVISION WORKS
 - Proposed APZ
 - Limit of Power Cable Reach for Standard E-one Tanks = 30m. If Cable Path from the Tank to the Electrical Control Box is Greater than 30m, Owner/Construction Contractor is to Advise Altogether Group of the Need for a Longer Cable Length to Suit.
 - AS CONSTRUCTED ISOLATION VALVE
 - AS CONSTRUCTED FLUSHING POINT
 - AS CONSTRUCTED BOUNDARY KIT
 - AS CONSTRUCTED WASTEWATER COLLECTION TANK

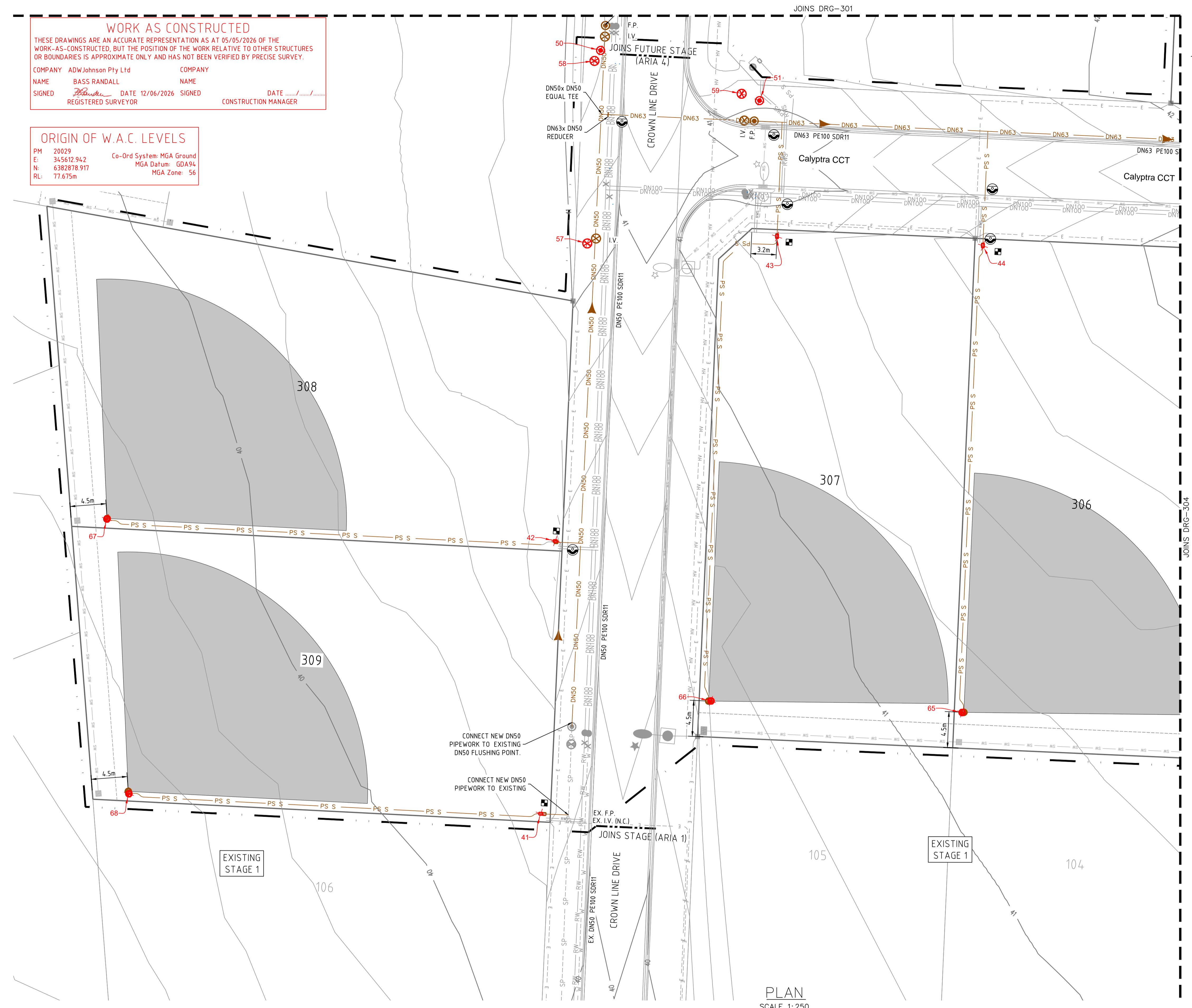
PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 9 CONNECTIONS
 • SINGLE SERVICES
 - 3 x SHORT SIDE
 - 6 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN75	PE PN16	14
DN63	PE PN16	182
DN50	PE PN16	126
DN50 (LATERAL)	PE PN16	618

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 106.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 206.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - 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).



WORK AS CONSTRUCTED



PLAN
 SCALE 1:250

10mm AT FULL SIZE
 This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	13.08.2024	INITIAL ISSUE	G.S.	C.H.	G.S.	C.B.	A1 / A3 1:250 / 1:500
B	04.06.2025	REVISED PRELIMINARY ISSUE	T.A.	C.H.	G.S.	C.B.	
0	23.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
1	28.10.2025	AMENDED CONSTRUCTION ISSUE	M.S.	C.H.	C.H.	C.B.	
2	12.06.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.	

DESIGN FILE N:\190274\190274(ARIA)\DWG\Water & Sewer\WAT\STAGE 3\190274(ARIA)3-WAT-DESIGN.dwg

ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE

adw Johnson

Hunter Office
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CLIENT

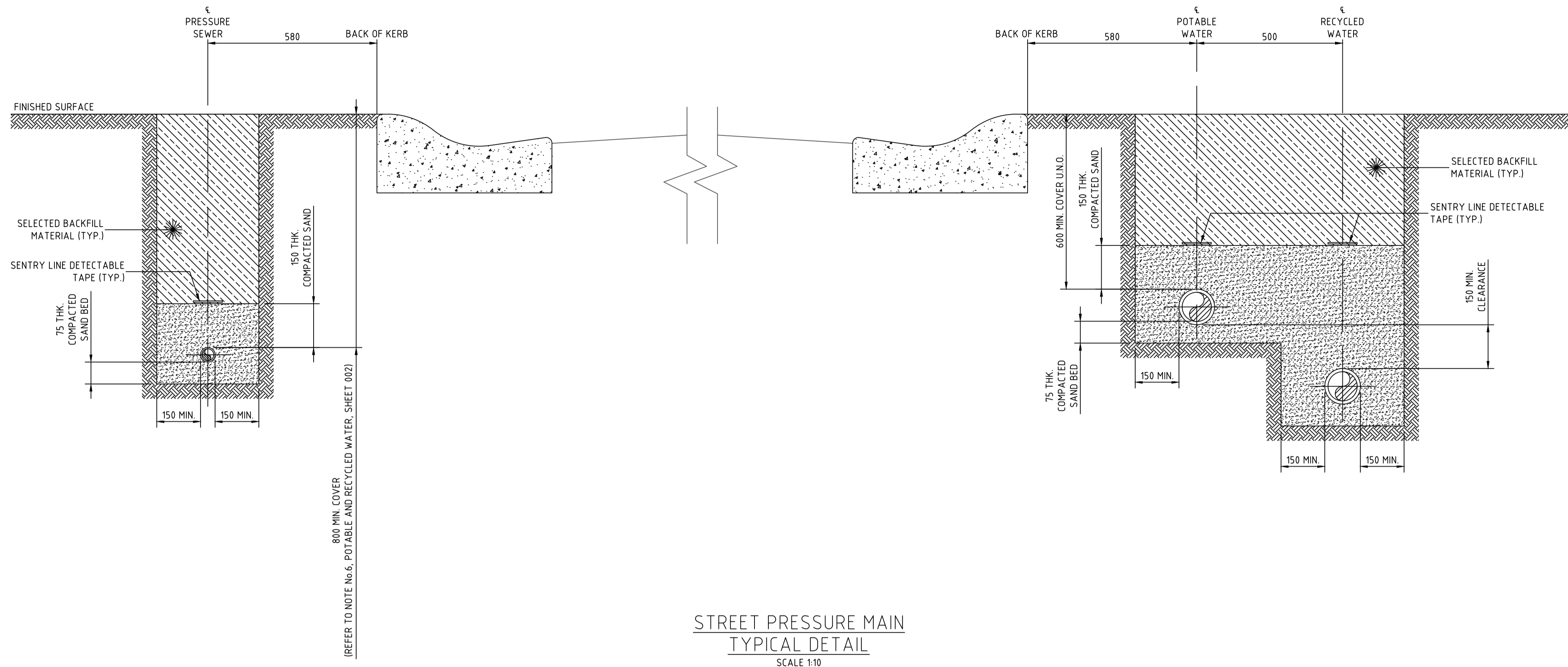
PROPERTY DESCRIPTION

ARIA - STAGE 3
 WINE COUNTRY DRIVE
 HUNTLLEE

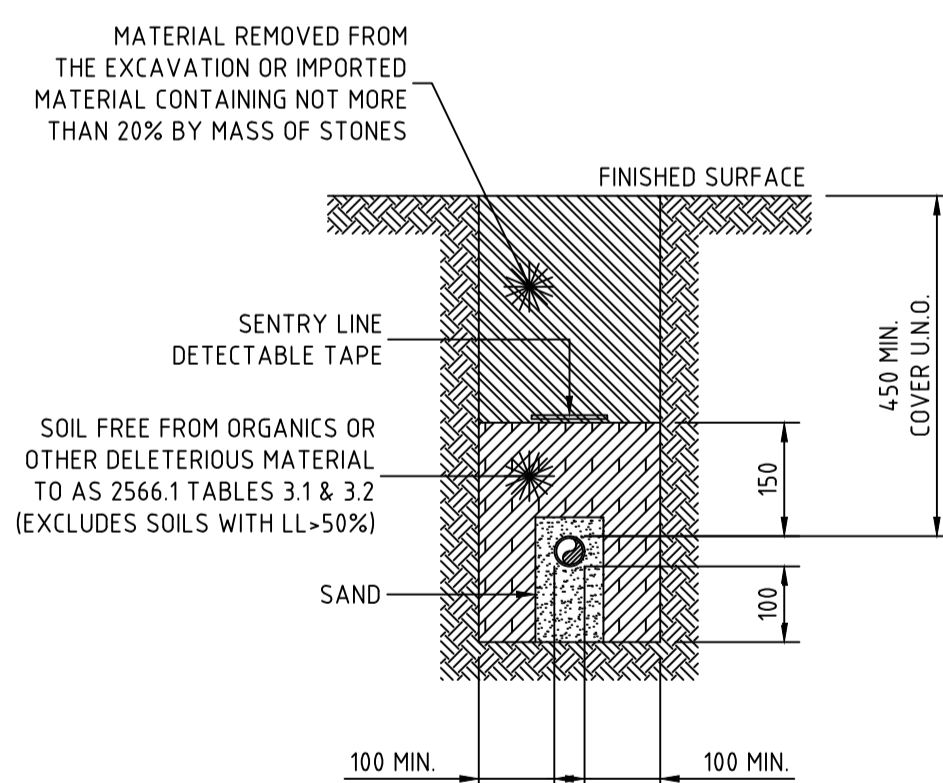
PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE PRESSURE SEWER DETAIL PLAN - SHEET 3

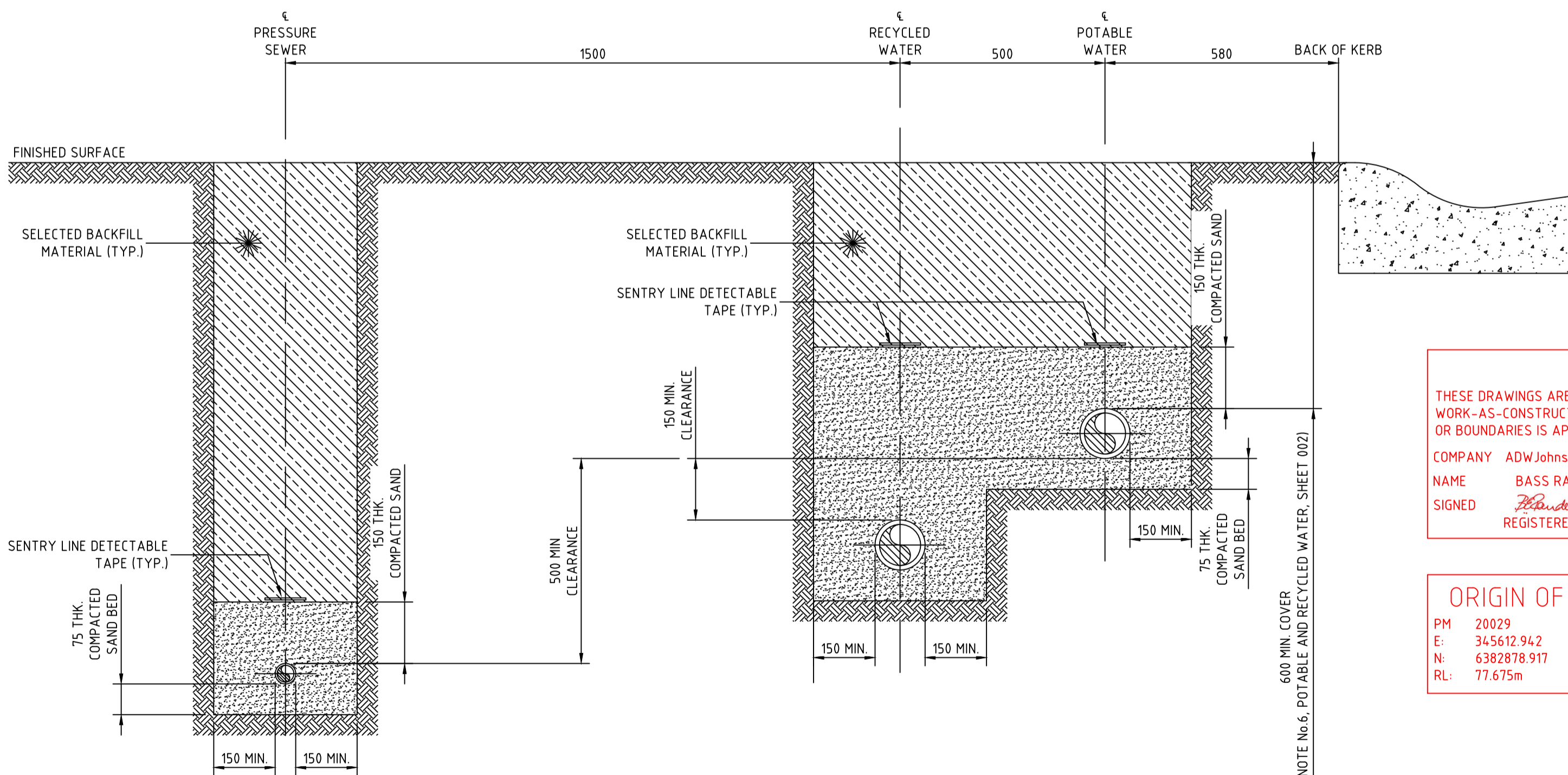
SURVEYED DALEY.Smith Pty Ltd	DATUM GDA94 M.G.A. ZONE 56	A.H.D.	PROJECT No. 240074(ARIA)3 - WAC	DISCIPLINE -	NUMBER 303	REV. 2
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STREET PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10



PRIVATE PROPERTY PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10



CROWN LINE DRIVE PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10

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COMPANY ADW Johnson Pty Ltd
NAME BASS RANDALL
SIGNED [Signature] DATE 12/06/2026 REGISTERED SURVEYOR
COMPANY NAME
SIGNED [Signature] DATE 12/06/2026 CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
PM 20029
E: 345612.942
N: 6382878.917
RL: 77.675m
Co-Ord System: MGA Ground
MGA Datum: GDA94
MGA Zone: 56



WORK AS CONSTRUCTED

NOTES:

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

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
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B	04.06.2025	REVISED PRELIMINARY ISSUE	T.A.	C.H.	G.S.	C.B.	
0	23.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.	
1	28.10.2025	AMENDED CONSTRUCTION ISSUE	M.S.	C.H.	C.H.	C.B.	
2	12.06.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.	

adw Johnson
Hunter Office
Unit 7/335 Hillsborough Rd
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email: hunter@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

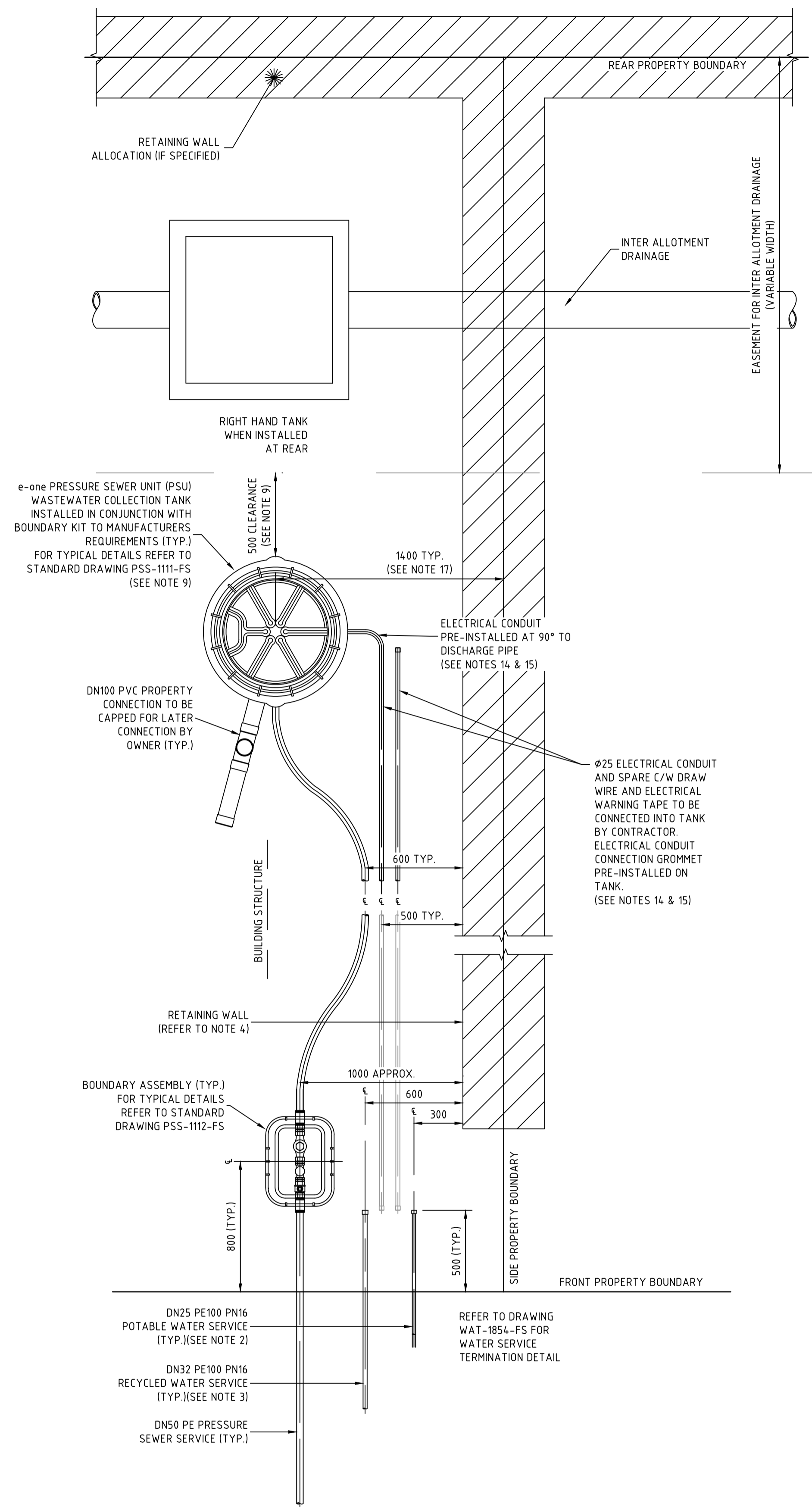
CLIENT
altogether.

PROPERTY DESCRIPTION
ARIA - STAGE 3
WINE COUNTRY DRIVE
HUNTLEE

SURVEYED DALEY.Smith Pty Ltd
DATUM GDA94 M.G.A. ZONE 56 A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	TYPICAL PIPEWORK TRENCHING DETAIL		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240074(ARIA)3	- WAC	- 401	2

100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.



TYPICAL PROPERTY CONNECTION DETAIL
(PRESSURE SEWER UNIT AT REAR)
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.
- Φ25 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.
- POSITION TANK LID SUCH THAT BREATHER PIPE LOCATION IS ON THE DOWNSLOPE SIDE OF THE BLOCK WHERE POSSIBLE.
- CONTRACTOR TO INSTALL ELECTRICAL CONDUIT CONNECTION (CONDUIT AT 90° FROM DISCHARGE PIPE) IN ACCORDANCE WITH AS3000 AT MIN 500mm COVER. ELECTRICAL GROMMET SUPPLIED WITH TANK AND LOCATED LOOSE WITHIN TANK. Φ25 CONDUIT TO BE PROVIDED WITH LONG RADIUS SWEEP BEND INTO THE VERTICAL POSITION AND LEFT CAPPED ABOVE GROUND LEVEL FOR FUTURE ELECTRICAL CONNECTION BY ELECTRICIAN ONCE DWELLING IS CONSTRUCTED.
- CONTRACTOR TO INSTALL DN150 CONDUIT FOR FUTURE POTABLE AND RECYCLED WATER SINGLE SERVICE PROPERTY CONNECTIONS, WHERE SHOWN.
- THE WATER AUTHORITY MAY GRANT DISPENSATION FOR ALTERNATE TANK OFFSETS SUBJECT TO FORMAL REQUEST AND APPROVAL.

WORK AS CONSTRUCTED

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	BASS RANDALL	NAME	
SIGNED	<i>Bass Randall</i>	DATE	12/06/2026
	REGISTERED SURVEYOR	SIGNED	
		DATE/...../.....
			CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM	20029	Co-Ord System:	MGA Ground
E	34.5612.942	MGA Datum:	GDA94
N	6382878.917	MGA Zone:	56
RL	77.675m		



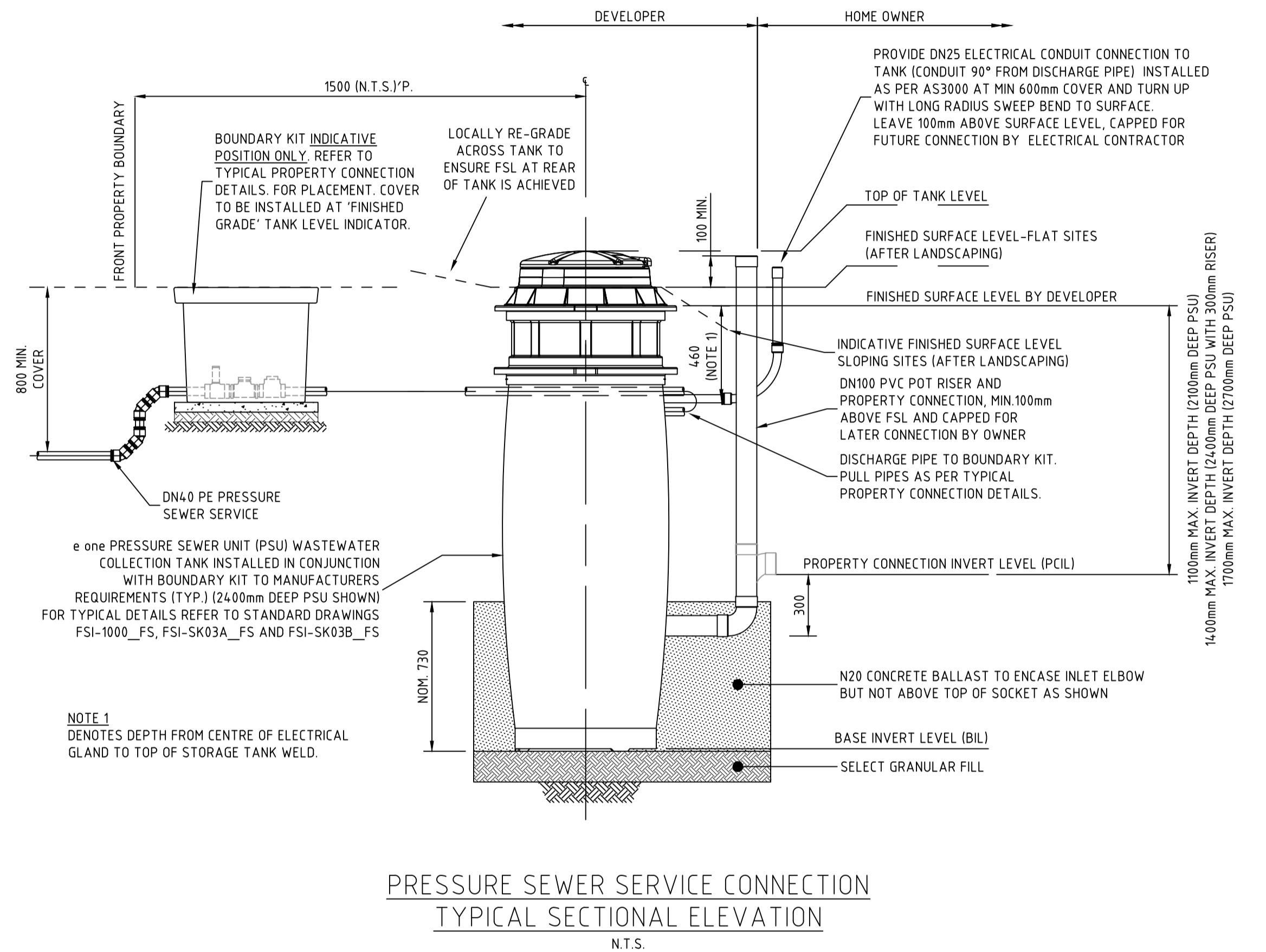
WORK AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	13.08.2024	INITIAL ISSUE	G.S.	C.H.	G.S.	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	ARIA - STAGE 3 WINE COUNTRY DRIVE HUNTLLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	TYPICAL PROPERTY CONNECTION DETAILS	DALEY.Smith Pty Ltd	GDA94 M.G.A. ZONE 56	A.H.D.	240074(ARIA)3 - WAC	- 402	2
B	04.06.2025	REVISED PRELIMINARY ISSUE	T.A.	C.H.	G.S.	C.B.											
0	23.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.											
1	28.10.2025	AMENDED CONSTRUCTION ISSUE	M.S.	C.H.	C.H.	C.B.											
2	12.06.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.											

WASTEWATER COLLECTION TANK DETAILS								SURVEY TOP OF COLLECTION TANK LID	DESIGN TOP OF TANK	TOP OF TANK Survey vs Design	
LOT NUMBER	TOP OF TANK	TANK FSL	BASE IL	CONNECTION IL	TANK TYPE	TANK LOCATION	EASTING	NORTHING			
301	42.20	41.92	40.07	40.82	2400	REAR	344275.424	6380829.978	42.23	42.20	0.03
302	43.06	42.78	40.93	41.68	2700	REAR	344272.873	6380798.919	43.11	43.06	0.05
303	42.31	42.03	40.18	40.93	2400	REAR	344253.016	6380685.139	42.36	42.31	0.05
304	41.85	41.57	39.72	40.47	2400	REAR	344225.688	6380701.896	41.90	41.85	0.05
305	41.60	41.32	39.47	40.22	2400	REAR	344197.465	6380716.978	41.65	41.60	0.05
306	41.39	41.11	39.26	40.01	2400	REAR	344169.243	6380732.060	41.43	41.39	0.04
307	40.88	40.60	38.75	39.50	2400	REAR	344141.020	6380747.142	40.90	40.88	0.02
308	39.98	39.70	37.85	38.60	2400	REAR	344082.901	6380800.326	39.95	39.98	-0.03
309	39.90	39.62	37.77	38.52	2400	REAR	344070.530	6380768.356	39.93	39.90	0.03

TANK COUNT	
2100	-
2400	8
2700	1
2100 LEFT	0
2100 RIGHT	0
2400 LEFT	0
2400 RIGHT	8
2700 LEFT	1
2700 RIGHT	0

NOTE:
FINISHED SURFACE LEVELS EXTRACTED FROM DIGITAL DATA SUPPLIED BY ADW JOHNSON.
(190274(ARIA)ST3-ENG(0) DATED 10/07/2025)



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COMPANY ADW Johnson Pty Ltd COMPANY
NAME BASS RANDALL NAME
SIGNED *B. Bass* DATE 12/06/2026 SIGNED DATE / /
REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS
PM: 20029
E: 345612.942 Co-Ord System: MGA Ground
N: 6382878.917 MGA Datum: GDA94
RL: 77.675m MGA Zone: 56



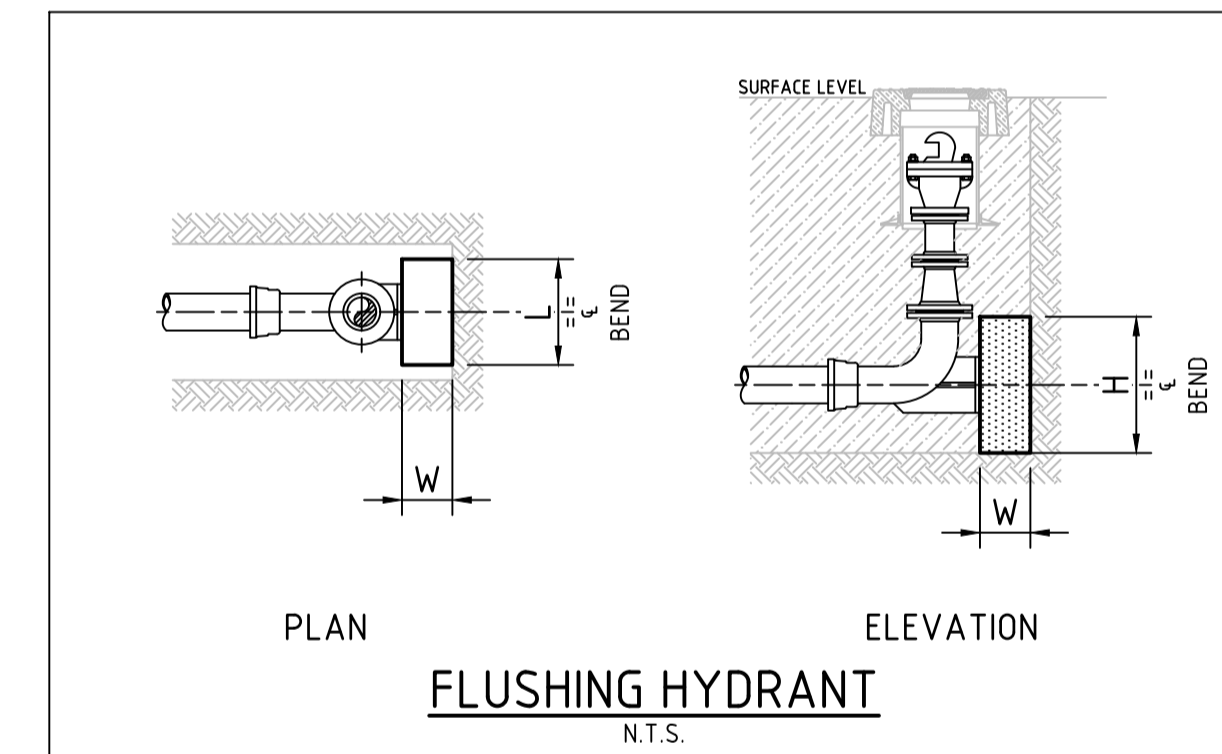
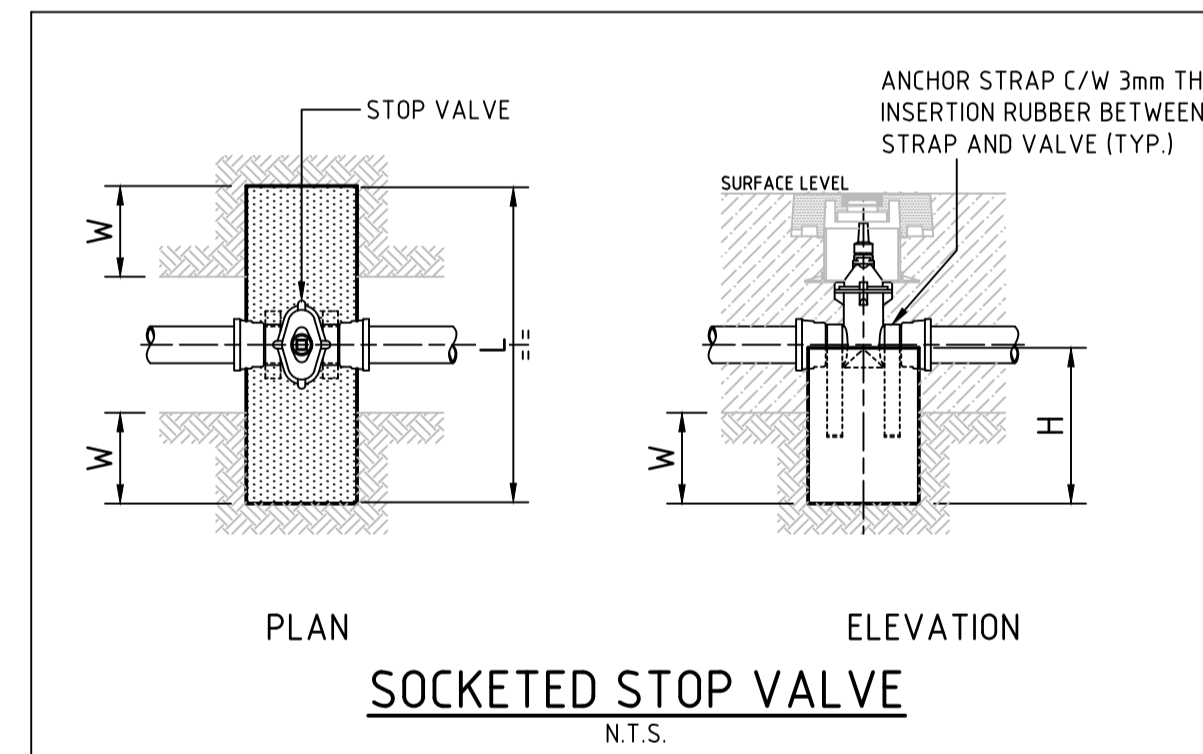
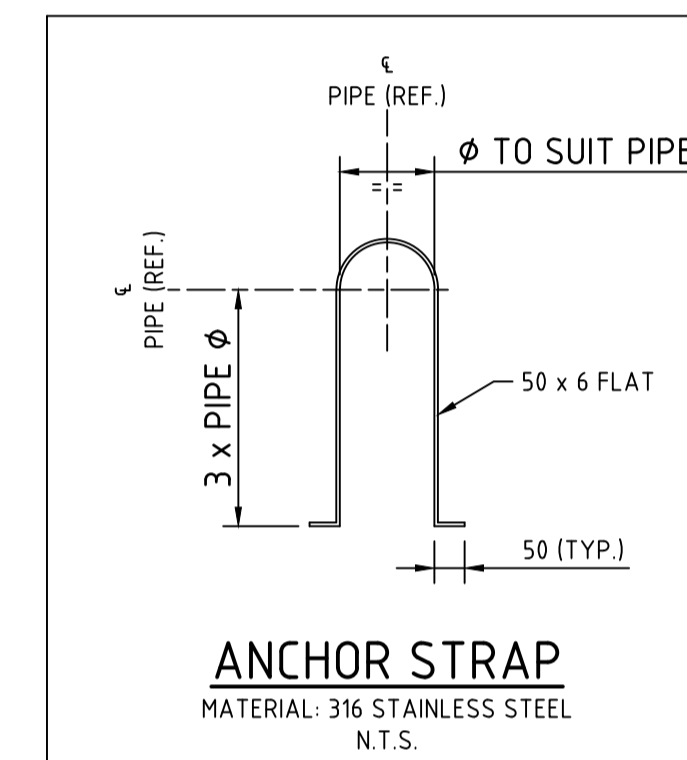
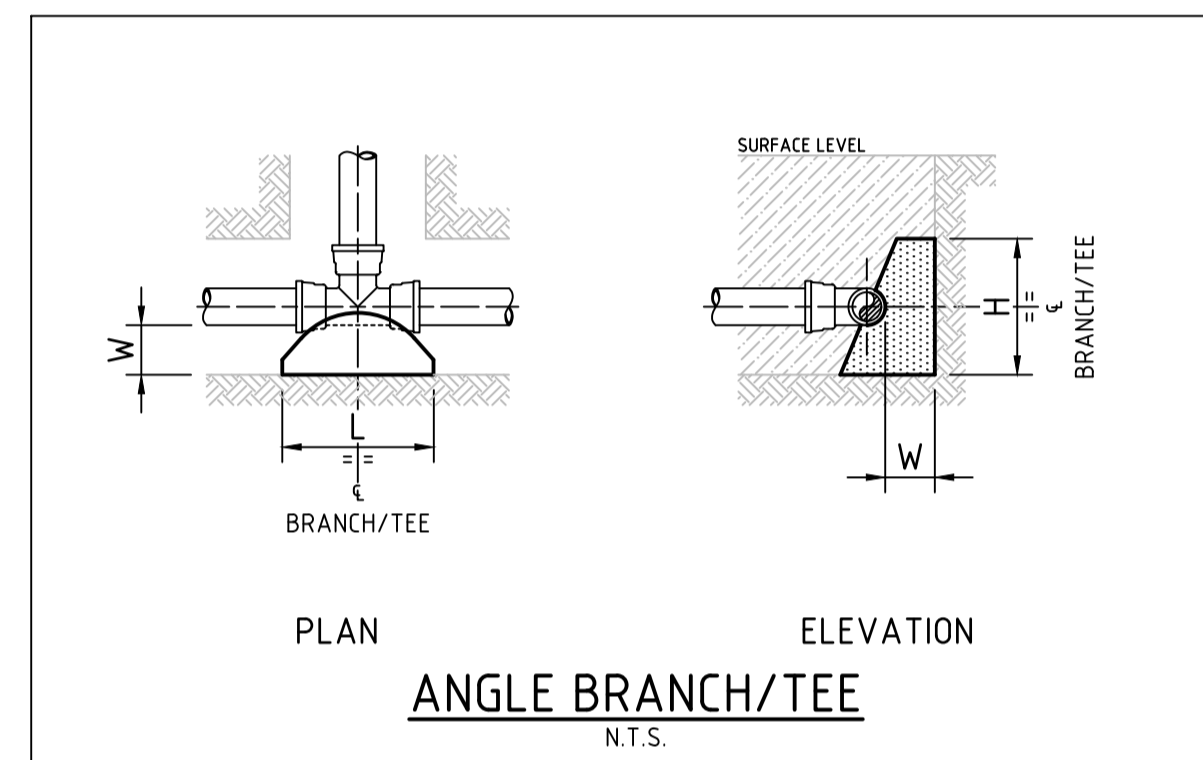
WORK AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	13.08.2024	INITIAL ISSUE	G.S.	C.H.	G.S.	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	altogether.	ARIA - STAGE 3 WINE COUNTRY DRIVE HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	DALEY.Smith Pty Ltd	GDA94 M.G.A. ZONE 56	A.H.D.	240074(ARIA)3 - WAC	- 403	2
B	04.06.2025	REVISED PRELIMINARY ISSUE	T.A.	C.H.	G.S.	C.B.											
0	23.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.											
1	28.10.2025	AMENDED CONSTRUCTION ISSUE	M.S.	C.H.	C.H.	C.B.											
2	12.06.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.											
DESIGN FILE N:\190274\190274(ARIA)\DWG\Water & Sewer\WAT\STAGE 3\190274(ARIA)3-WAT-DESIGN.dwg ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE.										PROJECT No. 240074(ARIA)3 - WAC		DISCIPLINE - 403		REV. 2			

THRUST BLOCK NOTES:

- "N" DENOTES NOMINAL THRUST AREA TO BE ACHIEVED BY POURING CONCRETE THE FULL LENGTH OF THE FITTING AND EXTENDING FROM THE FLOOR OF THE TRENCH TO NOM. 100mm ABOVE THE FITTING.
- 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. 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.
- THRUST BLOCK TO EXTEND 300mm MINIMUM INTO BASE AND SIDE WALLS OF TRENCH.
- PROVIDE 3mm THK. INSERTION RUBBER BETWEEN ANCHOR STRAP AND PIPE BARREL.

TYPE	FITTING	SOIL AHBP (kPa)	DESIGN STP (kPa)	THRUST	TA (m ²)	LENGTH (L)	HEIGHT (H)	WIDTH (W)
1	DN100 x DN100 EQUAL TEE	100	1500	18.00	0.18	0.45	0.40	0.30
2	DN100 SOCKETED STOP VALVE	100	1500	18.00	0.18	1.05	0.44	0.30
3	DN100 FLUSHING HYDRANT	100	1500	18.00	0.18	0.45	0.40	0.30



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COMPANY ADWJohnson Pty Ltd COMPANY
 NAME BASS RANDALL NAME
 SIGNED *Bass Randall* DATE 12/06/2026 SIGNED _____ DATE ____/____/____
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM: 20029
 E: 345612.942 Co-Ord System: MGA Ground
 N: 6382878.917 MGA Datum: GDA94
 RL: 77.675m MGA Zone: 56



WORK AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	13.08.2024	INITIAL ISSUE	G.S.	C.H.	G.S.	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	ARIA - STAGE 3 WINE COUNTRY DRIVE HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	THRUST BLOCK DETAILS	DALEY.Smith Pty Ltd	GDA94 M.G.A. ZONE 56	240074(ARIA)3 - WAC	- 404	2	
B	04.06.2025	REVISED PRELIMINARY ISSUE	T.A.	C.H.	G.S.	C.B.											
O	23.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.											
1	28.10.2025	AMENDED CONSTRUCTION ISSUE	M.S.	C.H.	C.H.	C.B.											
2	12.06.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.											
DESIGN FILE N:\190274\190274(ARIA)\DWG\Water & Sewer\WAT\STAGE 3\190274(ARIA)3-WAT-DESIGN.dwg								ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE									
Plotted By: tima Plot Date: 22/06/26 - 10:10 Cad File: N:\240072\DWG\Water & Sewer\Stage Aria 3 WAC\240072(ARIA)3-WAC-404.dwg																	

POINT TABLE				
Point #	Elevation	Northing	Easting	Description
1	41.43	6380825.49	344166.26	waHYD
2	40.99	6380802.52	344172.90	waHYD
3	42.06	6380773.04	344227.89	waHYD
4	43.95	6380730.92	344307.14	waHYD
5	43.92	6380732.20	344304.67	waHYD
6	44.85	6380768.42	344334.67	waHYD
7	41.12	6380808.46	344157.05	waSV
8	41.43	6380823.97	344165.40	waSV
9	41.03	6380801.84	344173.76	waSV
10	43.92	6380731.54	344305.90	waSV
11	44.86	6380767.18	344333.72	waSV
12	40.21	6380742.70	344116.27	waTAP
13	40.61	6380772.73	344132.39	waTAP
14	41.18	6380796.55	344173.42	waTAP
15	41.58	6380784.49	344196.26	waTAP
16	42.09	6380769.51	344224.31	waTAP
17	42.64	6380773.95	344256.12	waTAP
18	42.67	6380754.15	344252.47	waTAP
19	43.32	6380738.99	344280.79	waTAP
20	44.92	6380769.77	344329.59	waTAP
21	41.44	6380825.76	344165.90	waHYDR
22	41.02	6380802.04	344172.64	waHYDR
23	43.96	6380730.60	344306.92	waHYDR
24	44.43	6380746.57	344319.40	waHYDR
25	44.84	6380768.67	344334.36	waHYDR
26	41.23	6380812.70	344158.65	waSVR
27	41.43	6380824.23	344164.96	waSVR
28	41.02	6380801.48	344173.50	waSVR
29	43.94	6380731.22	344305.71	waSVR
30	44.39	6380745.59	344318.66	waSVR
31	44.85	6380767.24	344333.39	waSVR
32	40.19	6380742.96	344116.36	waTAPR
33	40.63	6380772.92	344132.49	waTAPR
34	41.18	6380796.49	344173.66	waTAPR
35	41.58	6380784.38	344196.47	waTAPR
36	42.12	6380769.38	344224.59	waTAPR
37	42.64	6380754.00	344252.81	waTAPR
38	43.34	6380738.90	344281.01	waTAPR
39	42.64	6380774.11	344255.83	waTAPR
40	44.94	6380769.54	344329.44	waTAPR

POINT TABLE				
Point #	Elevation	Northing	Easting	Description
41	40.27	6380743.51	344115.94	seBDYKIT
42	40.67	6380773.53	344132.33	seBDYKIT
43	41.22	6380795.92	344173.87	seBDYKIT
44	41.60	6380783.73	344196.64	seBDYKIT
45	42.14	6380768.67	344224.67	seBDYKIT
46	42.66	6380774.81	344255.67	seBDYKIT
47	42.62	6380753.19	344252.82	seBDYKIT
48	43.35	6380738.30	344281.24	seBDYKIT
49	44.96	6380769.48	344328.74	seBDYKIT
50	41.49	6380826.51	344164.00	seFP
51	41.08	6380812.23	344179.24	seFP
52	44.31	6380736.90	344324.83	seFP
53	44.90	6380761.82	344345.12	seFP
54	44.91	6380760.64	344344.34	seSV
55	44.58	6380734.66	344326.64	seSV
56	44.48	6380735.06	344325.16	seSV
57	41.12	6380805.42	344152.05	seSV
58	41.49	6380825.65	344162.74	seSV
59	41.11	6380813.97	344177.60	seSV
60	42.23	6380830.18	344275.62	seTANK301
61	43.11	6380799.26	344272.98	seTANK302
62	42.36	6380685.22	344252.73	seTANK303
63	41.90	6380702.10	344225.48	seTANK304
64	41.65	6380717.12	344197.25	seTANK305
65	41.43	6380732.14	344169.03	seTANK306
66	40.90	6380747.03	344141.28	seTANK307
67	39.95	6380800.28	344082.85	seTANK308
68	39.93	6380768.05	344070.46	seTANK309

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 05/05/2026 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY.

COMPANY ADWJohnson Pty Ltd COMPANY
 NAME BASS RANDALL NAME
 SIGNED *B.Randall* DATE 12/06/2026 SIGNED DATE / /
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

PM 20029 Co-Ord System: MGA Ground
 E: 345612.942 MGA Datum: GDA94
 N: 6382878.917 MGA Zone: 56
 RL: 77.675m



WORK AS CONSTRUCTED

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	13.08.2024	INITIAL ISSUE	G.S.	C.H.	G.S.	C.B.		<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>	<p style="text-align: center;">ARIA - STAGE 3 WINE COUNTRY DRIVE HUNTLÉE</p>	<p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p style="text-align: center;">FITTINGS DETAILS</p>	DALEY.Smith Pty Ltd	GDA94 M.G.A. ZONE 56	A.H.D.	240074(ARIA)3 - WAC	- 405	2
B	04.06.2025	REVISED PRELIMINARY ISSUE	T.A.	C.H.	G.S.	C.B.											
0	23.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	G.S.	C.B.											
1	28.10.2025	AMENDED CONSTRUCTION ISSUE	M.S.	C.H.	C.H.	C.B.											
2	12.06.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.											