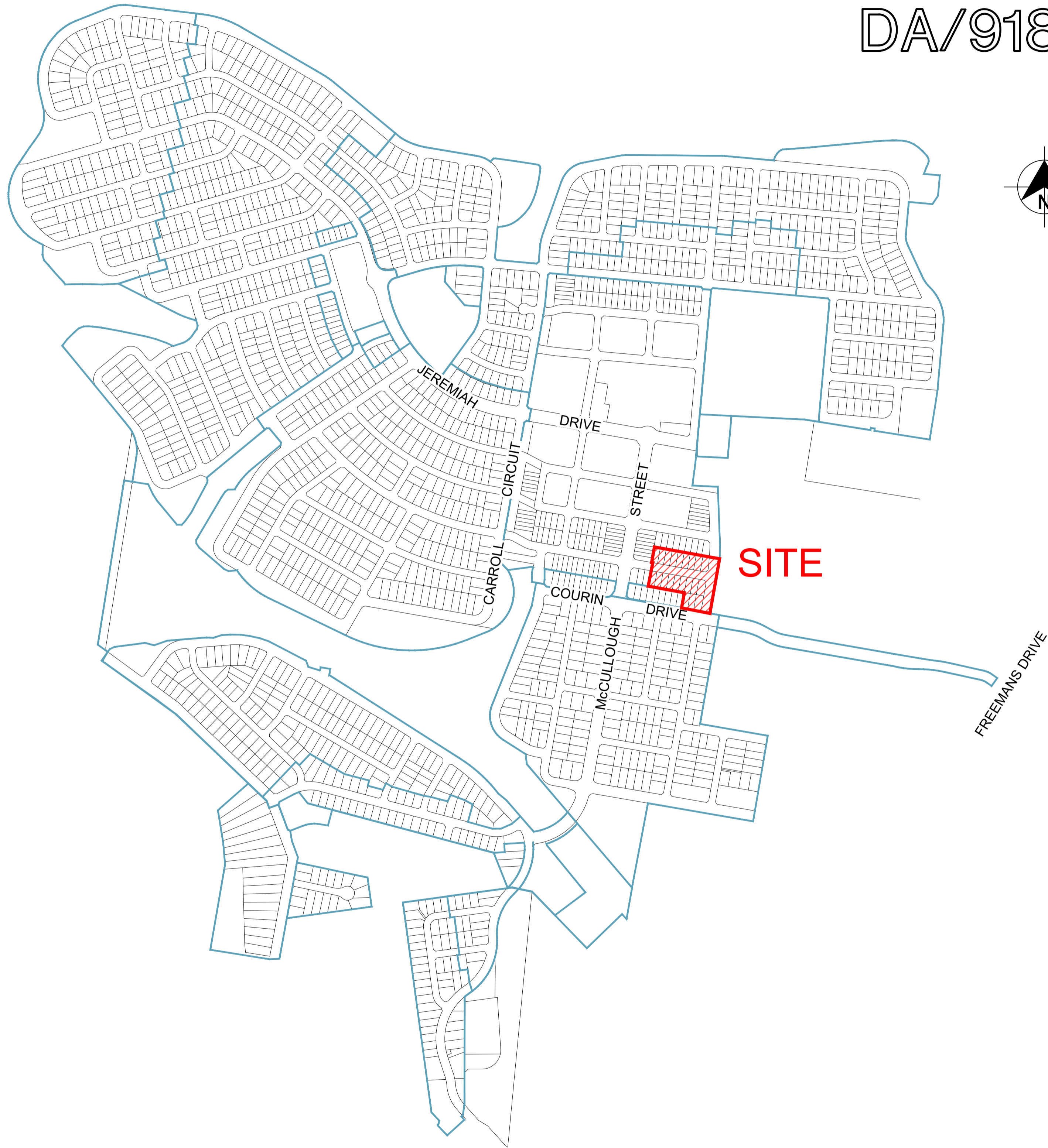


# WATAGAN PARK PROPOSED SUBDIVISION PRECINCT NORTH E - STAGE 7 LOT 88, D.P.1303421 - 45 MCCULLOUGH STREET, COORANBONG DA/918/2023



**LOCALITY SKETCH**  
NOT TO SCALE

DRAWING INDEX	
DRAWING NUMBER	DESCRIPTION
239078(8)7-WAT-001	COVER SHEET, LOCALITY PLAN, AND DRAWING INDEX
239078(8)7-WAT-002	GENERAL NOTES
239078(8)7-WAT-003	OVERALL SITE PLAN
239078(8)7-WAT-101	POTABLE WATER DETAIL PLAN - SHEET 1
239078(8)7-WAT-102	POTABLE WATER DETAIL PLAN - SHEET 2
239078(8)7-WAT-201	RECYCLED WATER DETAIL PLAN - SHEET 1
239078(8)7-WAT-202	RECYCLED WATER DETAIL PLAN - SHEET 2
239078(8)7-WAT-301	PRESSURE SEWER DETAIL PLAN - SHEET 1
239078(8)7-WAT-302	PRESSURE SEWER DETAIL PLAN - SHEET 2
239078(8)7-WAT-401	TYPICAL CROSS SECTIONS
239078(8)7-WAT-402	TYPICAL PIPEWORK TRENCHING DETAILS
239078(8)7-WAT-403	TYPICAL PROPERTY CONNECTION DETAILS
239078(8)7-WAT-404	WASTE WATER COLLECTION TANK LEVEL DETAILS
239078(8)7-WAT-405	THRUST BLOCK DETAILS

**WORK AS CONSTRUCTED**

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 17/11/2025 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	NICHOLAS GANN	NAME	
SIGNED	DATE 17/11/2025	SIGNED	DATE .....
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM	57533	Co-Ord System	MGA Ground
E	345 5423.957	MGA Datum	GDA94
N	6 340 377.094	MGA Zone	56
RL	20.139m		



**WORK AS CONSTRUCTED**

239078(8)7-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.

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE		
A	07.03.2025	INITIAL ISSUE	I.B.	M.K.	M.K.	C.H.		<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>WATAGAN PARK PRECINCT NORTH E - STAGE 7 LOT 88, D.P.1303421 45 MCCULLOUGH STREET, COORANBONG DA/918/2023</p>	<p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>COVER SHEET, LOCALITY PLAN &amp; DRAWING INDEX</p>		
B	15.05.2025	ALTOGETHER COMMENTS	I.B.	M.K.	M.K.	C.H.							
0	16.05.2025	CONSTRUCTION ISSUE	I.B.	M.K.	M.K.	C.H.							
1	19.11.2025	WORK AS CONSTRUCTED	T.A.	M.K.	M.K.	C.H.							
<p>DESIGN FILE N: \\239078\239078(8)\DWG\Water &amp; Sewer\WAT\Stage 3\X-239078(8)3-WAT-DESIGN.dwg</p>								<p>SURVEYED ADW Johnson</p>		<p>DATUM GDA94 M.G.A. ZONE 56 A.H.D.</p>		<p>PROJECT No. 239078(8)7 - DISCIPLINE WAT - NUMBER 001 - REV. 1</p>	

239078(8)7-WAC-002

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:**

- 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.
- 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.
- 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.
- PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007 AND ALTOGETHER SUPPLEMENTARY MANUAL TO WSA.
- 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.
- 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 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.
- 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.
- MAINS WITHIN 2.0m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE ALTOGETHER REPRESENTATIVE).
- ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSA PRODUCT SPECIFICATION WSA-PS350 AND WSA-PS351.
- ALL BENDS SHALL BE ELECTROFUSION OR BUTT WELD SWEEP BENDS. FABRICATED BENDS SHALL NOT BE USED IN LIEU. KNUCKLE ELBOWS ARE NOT PERMITTED.
- 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).
- ALL HOUSE SERVICE LATERALS SHALL BE DN40 (PE100 PN16).
- 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](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](http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017B-FS.pdf)
- 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).
- 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 (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
- 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.
- ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 07-2007 VERSION 1.1.
- FOR LOTS WITH TANKS IN THE REAR. 1 x ø25mm INSTRUMENTATION CONDUIT (ORANGE) AND 1 x ø25mm 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).
- 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.
- UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
- PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
- 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.
- THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE PRESSURE SEWER CODE OF AUSTRALIA (CLAUSE 213.4) 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.
- 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.
- 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.
- ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
- ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.
- PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
- WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER O.A. SUBMISSION CHECKLIST.
- 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.

**POTABLE WATER AND RECYCLED WATER NOTES:**

- 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).
  - POTABLE WATER SHALL BE UTILISED FOR FIRE FIGHTING PURPOSES.
  - 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.
  - 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.
  - THE CONSTRUCTOR SHALL VERIFY WITH THE SITE SUPERVISOR THE POSITION AND LEVEL OF ALL EXISTING AND PROPOSED BOUNDARIES PERTINENT TO THE INFRASTRUCTURE INSTALLATIONS.
  - 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-VI) AND 800mm IN ROADWAYS (TYPE L EMBEDMENT: WAT-1204-VI). MAXIMUM PIPE COVER SHALL 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.
  - 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.
  - MAXIMUM JOINT DEFLECTIONS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
  - 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.
  - 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.
  - DURING CONSTRUCTION, ALL OPEN ENDS OF PIPES SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
  - HYDRANTS, STOP VALVES AND ALL OTHER FITTINGS TO BE THE SAME SIZE AS THE THROUGH WATER MAIN AND ANTI CLOCKWISE CLOSING.
  - 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.
  - THRUST BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH WAT-1205.
  - 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](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](http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1855-FS.pdf)
  - PROPERTY SERVICE CONNECTION IS SHALL BE FLUSHED AND LOCKED (BY THE ALTOGETHER REPRESENTATIVE) FOLLOWING SUCCESSFUL PRESSURE TESTING.
  - SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
  - ALL MAINS SHALL BE PRESSURE TESTED TO 1500kPa IN ACCORDANCE WITH CLAUSE 19.4 OF WSA03-2011 (SYDNEY WATER EDITION 2014).
  - ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
  - WATER QUALITY TESTING SHALL BE IN ACCORDANCE WITH WSA 03-2011-3.1(SYDNEY WATER EDITION-2014, CLAUSE 19.7).
  - 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.
  - UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
  - PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
  - 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.
  - 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.
  - SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
  - PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
  - WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER O.A. SUBMISSION CHECKLIST.
  - 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:**

- 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.
- 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.
- MAKE SMOOTH TRANSITION TO EXISTING WORKS (i.e. ROAD PAVEMENT AND FOOTPATHS) TO P.C.A. AND SUPERINTENDENT'S REQUIREMENTS.
- 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**

UTILITY (EXISTING OR PROPOSED SERVICE)	MINIMUM HORIZONTAL CLEARANCE (mm)		MINIMUM VERTICAL CLEARANCE (mm)
	NEW MAIN SIZE		
	≤ DN200	≥ DN200	
WATER MAINS - DN375	600	600	300
WATER MAINS - DN375	300*	600	150
GAS MAINS	300*	600	150
TELECOMMUNICATION CONDUITS AND CABLES	300*	600	150
ELECTRICITY CONDUITS AND CONDUITS	200	1000	225*
STORMWATER DRAINS	300*	600	150*
SEWERS (GRAVITY)	1000* / 600	1000* / 600	500*
SEWERS (PRESSURE AND VACUUM)	600	600	300*
KERBS	150	600*	150 (WHERE POSSIBLE)

**NOTES:**

- 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.
- WATER MAINS INCLUDES MAINS SUPPLYING BOTH POTABLE AND RECYCLED WATER.
- FOR AREAS WITH EXISTING WATER RETICULATION, CLEARANCES CAN BE FURTHER REDUCED TO 600mm WITH THE APPROVAL OF THE WATER AUTHORITY.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.

**WORK AS CONSTRUCTED**

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	NICHOLAS GANN	NAME	
SIGNED	DATE 17/11/2025	SIGNED	DATE ...../...../.....
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

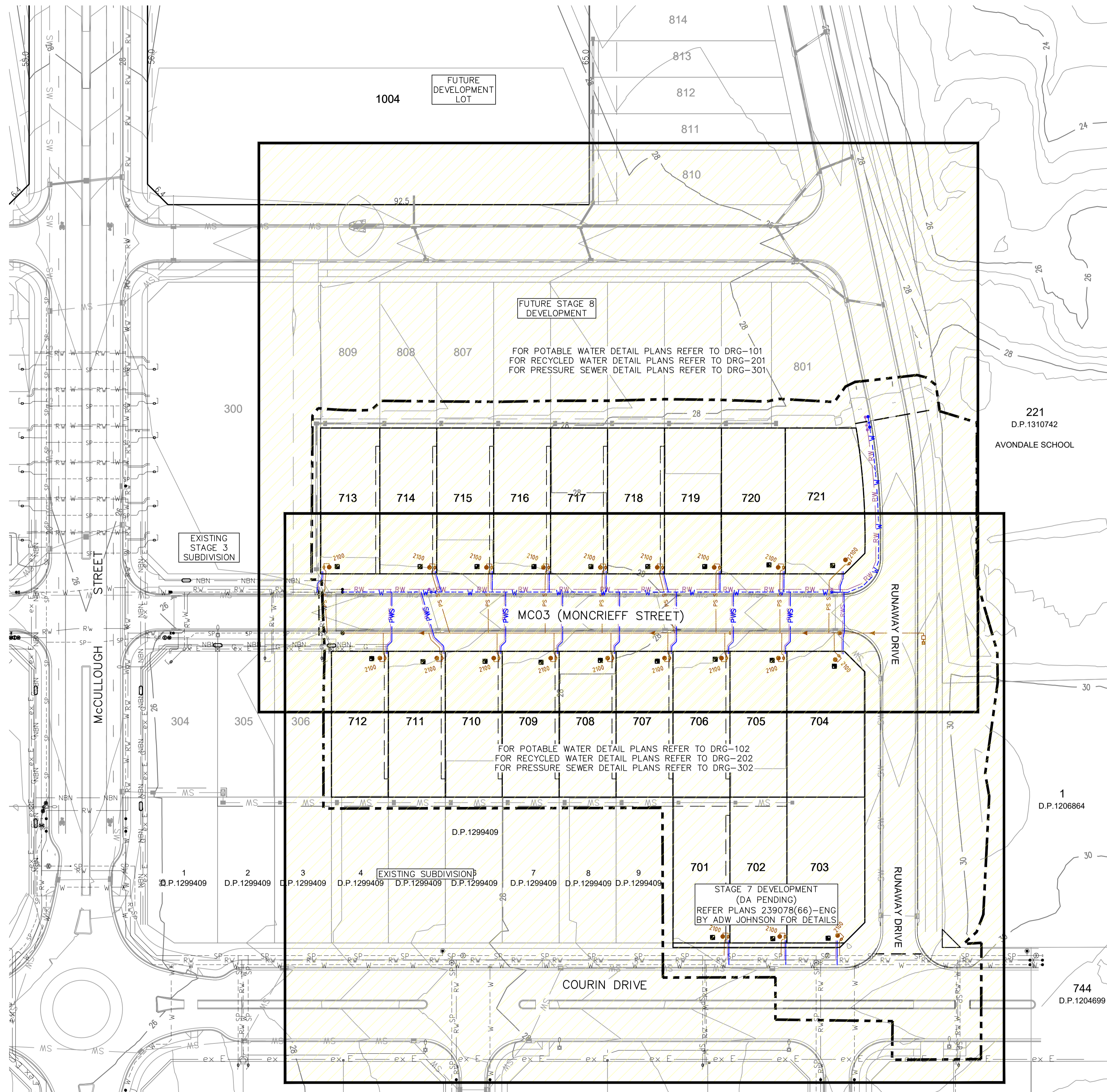
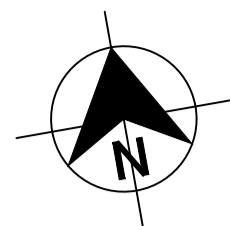
**ORIGIN OF W.A.C. LEVELS**

PM	57533	Co-Ord System	MGA Ground
E	345 5423 957	MGA Datum	GDA94
N	6 340 377 094	MGA Zone	56
RL	20.139m		



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	07.03.2025	INITIAL ISSUE	I.B.	M.K.	M.K.	C.H.		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	WATAGAN PARK PRECINCT NORTH E - STAGE 7 LOT 88, D.P.1303421 45 MCCULLOUGH STREET, COORANBONG DA/9/18/2023	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	GENERAL NOTES	239078(8)7	WAT	002	1
B	15.05.2025	ALTOGETHER COMMENTS	I.B.	M.K.	M.K.	C.H.									
O	16.05.2025	CONSTRUCTION ISSUE	I.B.	M.K.	M.K.	C.H.									
1	19.11.2025	WORK AS CONSTRUCTED	T.A.	M.K.	M.K.	C.H.									
DESIGN FILE N:\239078\239078(8)\DWG\Water & Sewer\WAT\Stage 7\WAC-239078(8)7-WAT-DESIGN.dwg								ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE							



PLAN  
SCALE 1:500

**WORK AS CONSTRUCTED**  
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COMPANY ADW Johnson Pty Ltd COMPANY  
NAME NICHOLAS GANN NAME  
SIGNED DATE 17/11/2025 SIGNED DATE  
REGISTERED SURVEYOR CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM 57533  
E: 345 5423.957 Co-Ord System: MGA Ground  
N: 6 340 377.094 MGA Datum: GDA94  
RL: 20.139m MGA Zone: 56

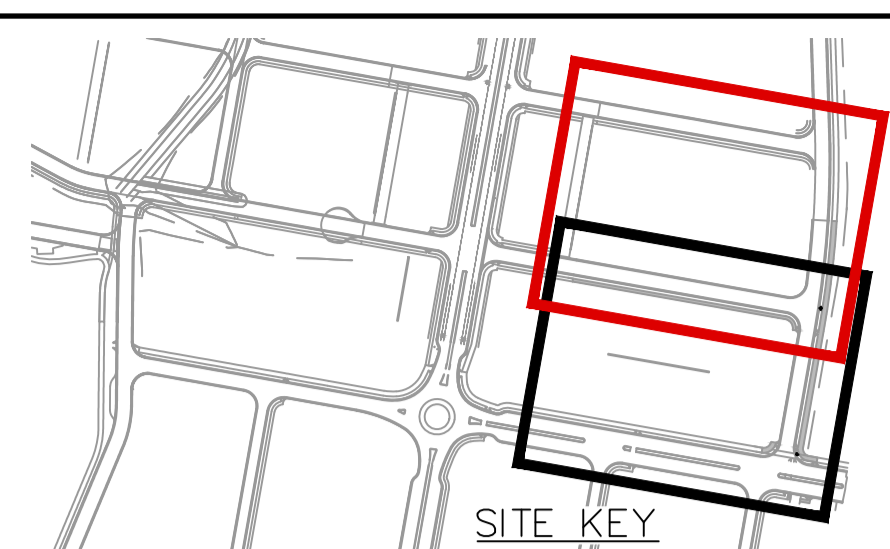
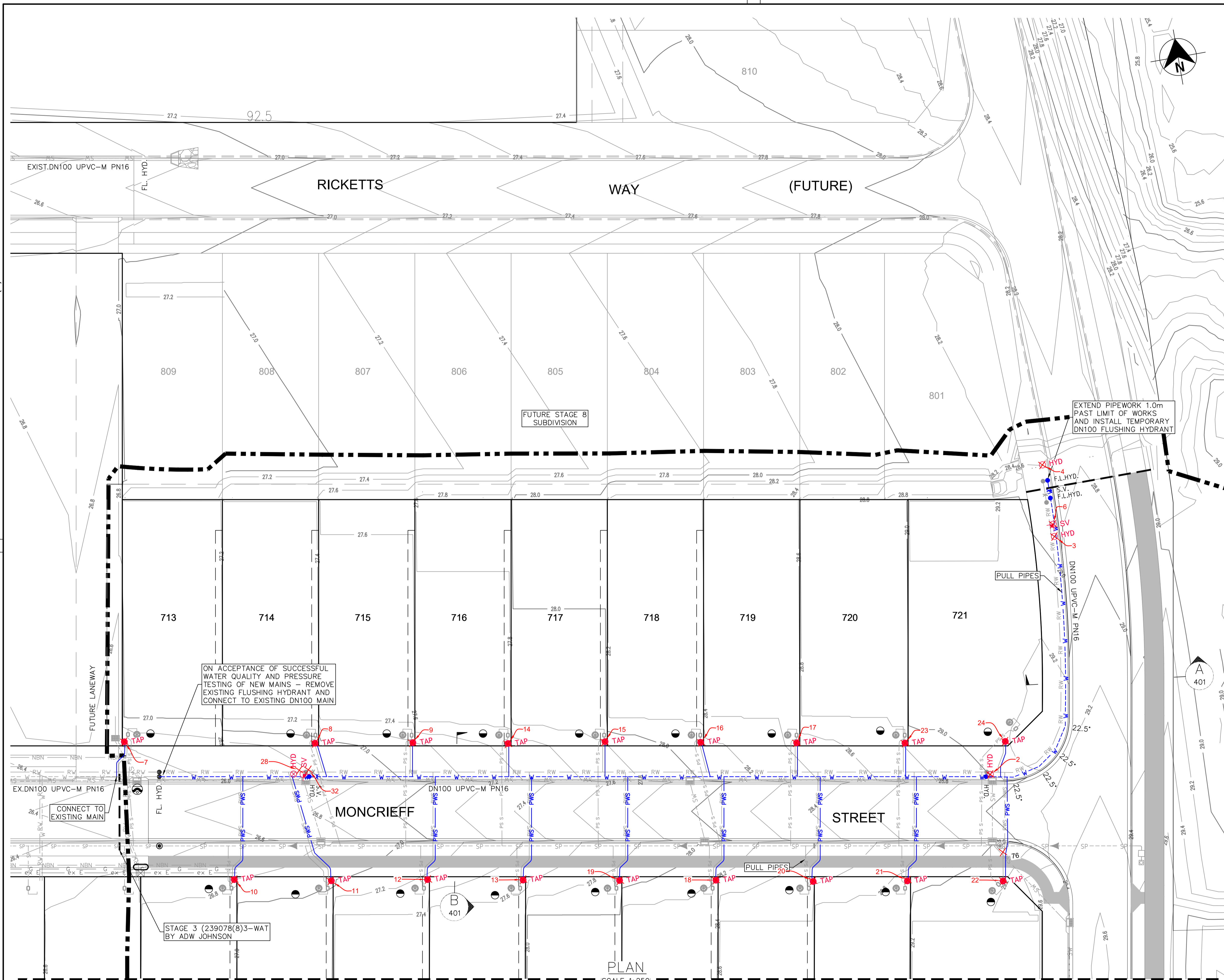


**WORK AS CONSTRUCTED**

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@adwjohanson.com.au www.adwjohanson.com.au ABN 62 129 445 398	CLIENT	PROPERTY DESCRIPTION WATAGAN PARK PRECINCT NORTH E - STAGE 7 LOT 88, D.P.1303421 45 MCCULLOUGH STREET, COORANBONG DA/918/2023	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION				
PLAN TITLE																
A	07.03.2025	INITIAL ISSUE	I.B.	M.K.	M.K.	C.H.	0 10 20 A1 / A3 1:500 / 1:1000 CONTOUR INTERVAL: 0.5m	 Johnson	JOHNSON PROPERTY GROUP	SURVEYED ADW Johnson	DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 239078(8)7 - DISCIPLINE WAT - NUMBER 003 - REV. 1				
B	15.05.2025	ALTOGETHER COMMENTS	I.B.	M.K.	M.K.	C.H.										
O	16.05.2025	CONSTRUCTION ISSUE	I.B.	M.K.	M.K.	C.H.										
1	19.11.2025	WORK AS CONSTRUCTED	T.A.	M.K.	M.K.	C.H.										
DESIGN FILE N:\239078\239078(8)\DWG\Water & Sewer\WAT\Stage 3\X-239078(8)3-WAT-DESIGN.dwg Plotted By: tima Plot Date: 01/12/25 - 16:36 ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE Cad File: \\adw-svr4\adw-data\239078\239078(8)\DWG\Water & Sewer\WAT\Stage 7\WAC\239078(8)7-WAC-003.dwg																

239078(8)7-WAC-102

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**
- W --- PVC-M POTABLE WATER RETICULATION
  - PWS --- PE POTABLE WATER PROPERTY SERVICE
  - RW --- PVC-M RECYCLED WATER RETICULATION
  - SP --- PE PRESSURE SEWER RETICULATION
  - EX PW --- EXISTING POTABLE WATER RETICULATION
  - EX RW --- EXISTING RECYCLED WATER RETICULATION
  - EX PS --- EXISTING PRESSURE SEWER RETICULATION
  - SW --- STORMWATER PIPEWORK
  - ex g --- EXISTING GAS
  - ex e --- EXISTING ELECTRICITY
  - ex SP --- EXISTING SEWER PRESSURE
  - ex RW --- EXISTING RECYCLED WATER

- S.V. STOP VALVE
- HYD. HYDRANT
- FL. HYD. FLUSHING HYDRANT
- LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- PROPERTY SERVICE CONNECTION
- PROPOSED EASEMENT
- LIMIT OF WORKS

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
TOTAL 21 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 12 x SHORT SIDE
    - 9 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	160

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 202.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 302.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-403 & 404.

**WORK AS CONSTRUCTED**

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COMPANY <b>ADW Johnson Pty Ltd</b>	COMPANY <b>NICHOLAS GANN</b>
SIGNED <b>REGISTERED SURVEYOR</b>	SIGNED <b>CONSTRUCTION MANAGER</b>
DATE <b>17/11/2025</b>	DATE <b>...../...../.....</b>

**ORIGIN OF W.A.C. LEVELS**

PM 57533	Co-Ord System: MGA Ground
E: 345 5423.957	MGA Datum: GDA94
N: 6 340 377.094	MGA Zone: 56
RL: 20.139m	



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT
A	07.03.2025	INITIAL ISSUE
B	15.05.2025	ALTOGETHER COMMENTS
0	16.05.2025	CONSTRUCTION ISSUE
1	19.11.2025	WORK AS CONSTRUCTED

DRAWN	CHECK	DESIGN	VERIFY	SCALES
I.B.	M.K.	M.K.	C.H.	0 5 10 A1 / A3
I.B.	M.K.	M.K.	C.H.	1:250 / 1:500
I.B.	M.K.	M.K.	C.H.	
T.A.	M.K.	M.K.	C.H.	

**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

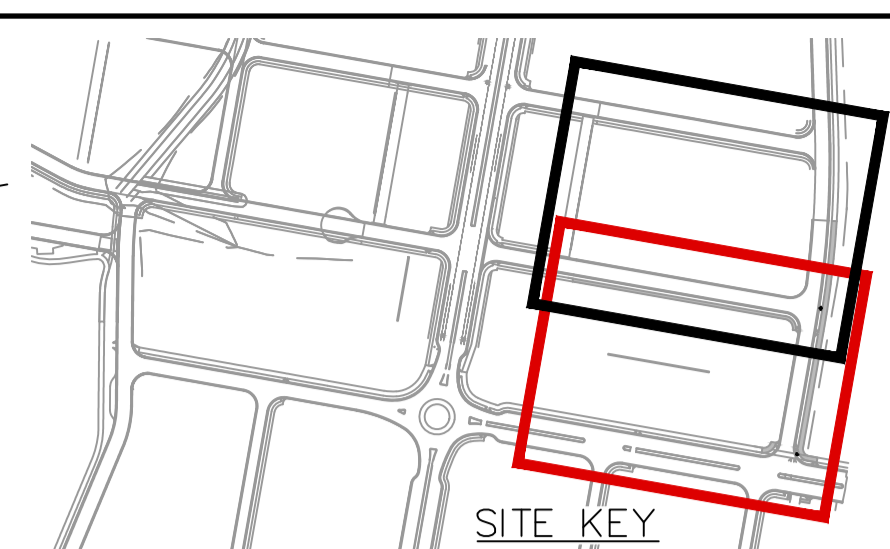
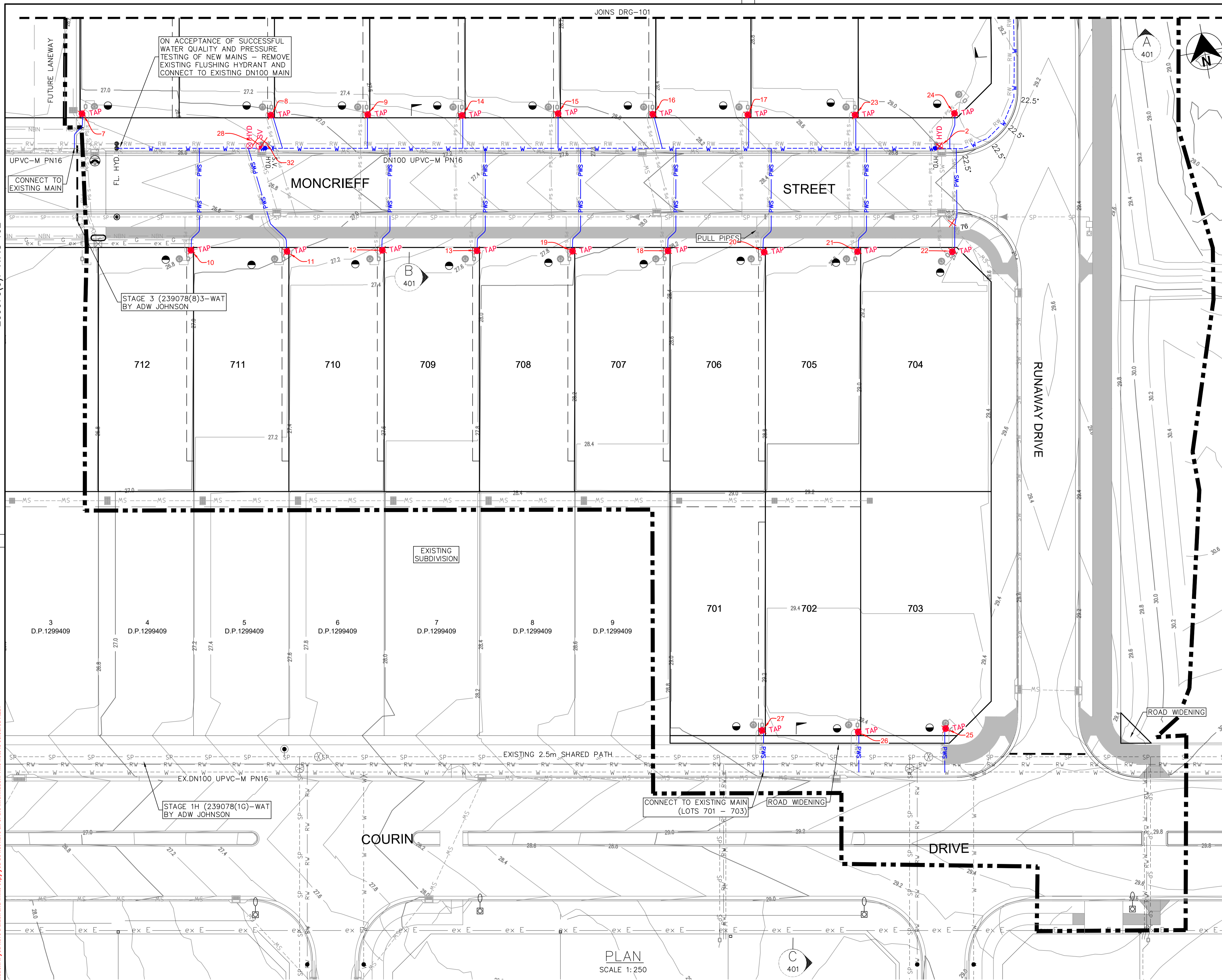
**JOHNSON PROPERTY GROUP**

PROPERTY DESCRIPTION <b>WATAGAN PARK PRECINCT NORTH E - STAGE 7 LOT 88, D.P.1303421 45 MCCULLOUGH STREET, COORANBONG DA/918/2023</b>
SURVEYED ADW Johnson
DATUM GDA94 M.G.A. ZONE 56
A.H.D.

PROJECT <b>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</b>			
PLAN TITLE <b>POTABLE WATER DETAIL PLAN - SHEET 1</b>			
PROJECT No. <b>239078(8)7</b>	DISCIPLINE <b>WAT</b>	NUMBER <b>101</b>	REV. <b>1</b>

239078(8)7-WAC-102

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**
- W PVC-M POTABLE WATER RETICULATION
  - PWS PE POTABLE WATER PROPERTY SERVICE
  - RW PVC-M RECYCLED WATER RETICULATION
  - PE PRESSURE SEWER RETICULATION
  - EX PW EXISTING POTABLE WATER RETICULATION
  - EX RW EXISTING RECYCLED WATER RETICULATION
  - EX PS EXISTING PRESSURE SEWER RETICULATION
  - SW STORMWATER PIPEWORK
  - EX G EXISTING GAS
  - EX E EXISTING ELECTRICITY
  - EX SP EXISTING SEWER PRESSURE
  - EX RW EXISTING RECYCLED WATER
- S.V. STOP VALVE
  - HYD. HYDRANT
  - FL. HYD. FLUSHING HYDRANT
  - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - PROPERTY SERVICE CONNECTION
  - PROPOSED EASEMENT
  - LIMIT OF WORKS
- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 21 CONNECTIONS
  - SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 12 x SHORT SIDE
    - 9 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	160

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 202.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 302.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-403 & 404.

**WORK AS CONSTRUCTED**

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	NICHOLAS GANN	NAME	
SIGNED	DATE 17/11/2025	SIGNED	DATE .....
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM	57533	Co-Ord System	MGA Ground
E	345 5423.957	MGA Datum	GDA94
N	6 340 377.094	MGA Zone	56
RL	20.139m		

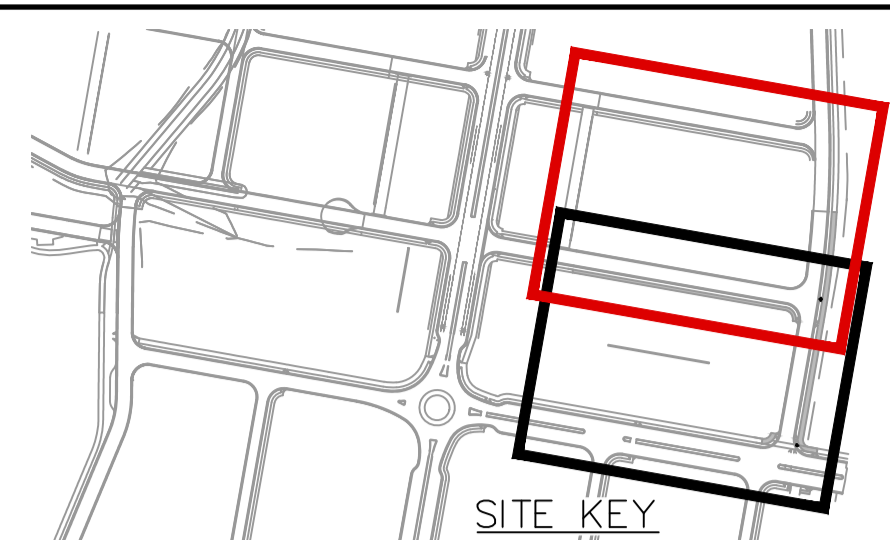
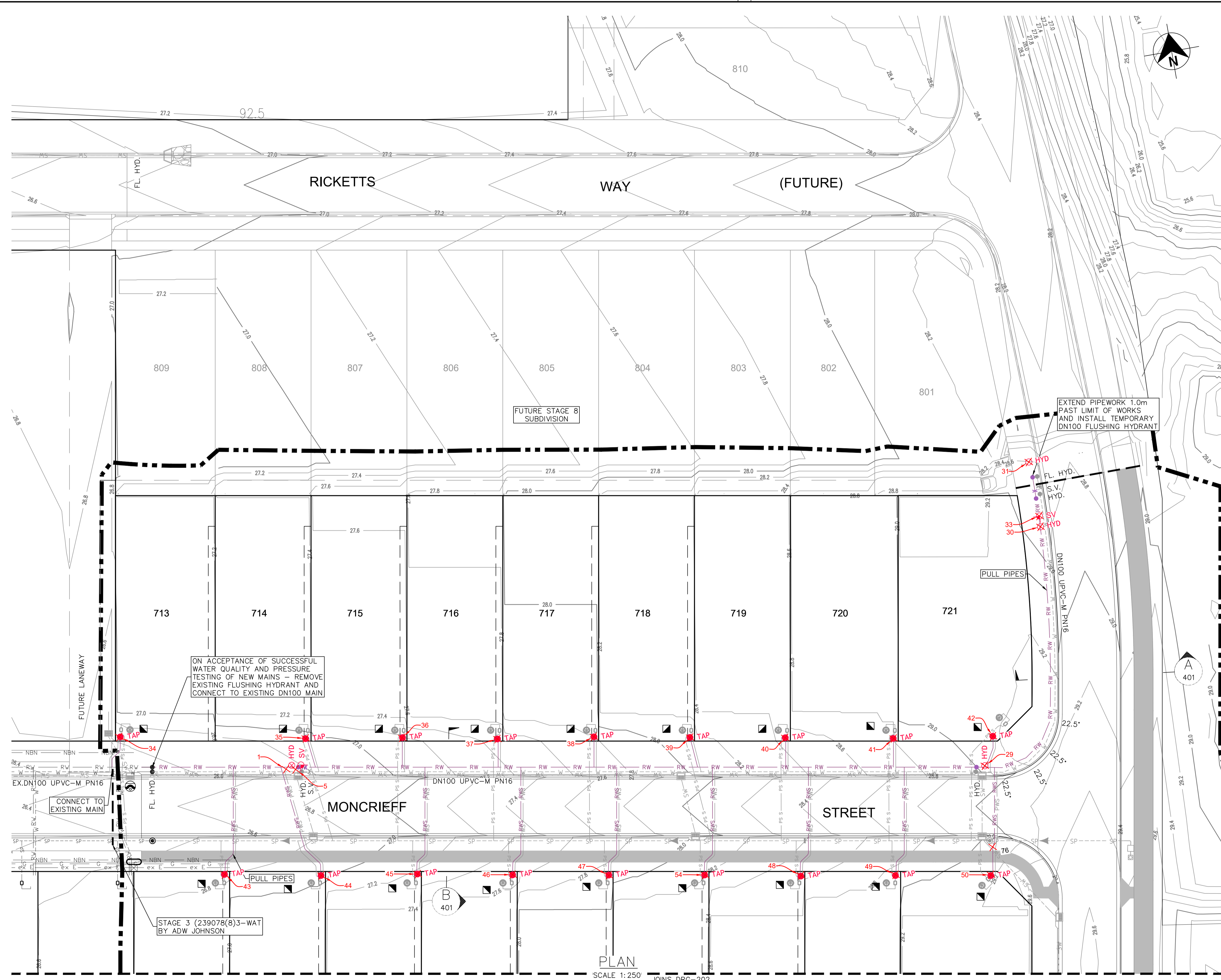


**WORK AS CONSTRUCTED**

<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>AMENDMENT</th> <th>DRAWN</th> <th>CHECK</th> <th>DESIGN</th> <th>VERIFY</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>07.03.2025</td> <td>INITIAL ISSUE</td> <td>I.B.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> </tr> <tr> <td>B</td> <td>15.05.2025</td> <td>ALTOGETHER COMMENTS</td> <td>I.B.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> </tr> <tr> <td>0</td> <td>16.05.2025</td> <td>CONSTRUCTION ISSUE</td> <td>I.B.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> </tr> <tr> <td>1</td> <td>19.11.2025</td> <td>WORK AS CONSTRUCTED</td> <td>T.A.</td> <td>M.K.</td> <td>M.K.</td> <td>C.H.</td> </tr> </tbody> </table>				REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	A	07.03.2025	INITIAL ISSUE	I.B.	M.K.	M.K.	C.H.	B	15.05.2025	ALTOGETHER COMMENTS	I.B.	M.K.	M.K.	C.H.	0	16.05.2025	CONSTRUCTION ISSUE	I.B.	M.K.	M.K.	C.H.	1	19.11.2025	WORK AS CONSTRUCTED	T.A.	M.K.	M.K.	C.H.	<p>SCALES</p> <p>0 5 10 A1 / A3 1:250 / 1:500</p>		<p>CONTOUR INTERVAL: 0.2m</p>		<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>CLIENT</p>		<p>PROPERTY DESCRIPTION WATAGAN PARK PRECINCT NORTH E - STAGE 7 LOT 88, D.P.1303421 45 MCCULLOUGH STREET, COORANBONG DA/918/2023</p>		<p>PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>		<p>PLAN TITLE POTABLE WATER DETAIL PLAN - SHEET 2</p>		<p>PROJECT No. 239078(8)7 - DISCIPLINE WAT - NUMBER 102 - REV. 1</p>	
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY																																																
A	07.03.2025	INITIAL ISSUE	I.B.	M.K.	M.K.	C.H.																																																
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1	19.11.2025	WORK AS CONSTRUCTED	T.A.	M.K.	M.K.	C.H.																																																
<p>DESIGN FILE N:\239078\239078(8)\DWG\Water &amp; Sewer\WAT\Stage 3\X-239078(8)3-WAT-DESIGN.dwg</p>				<p>ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE</p>						<p>SURVEYED ADW Johnson DATUM GDA94 M.G.A. ZONE 56 A.H.D.</p>		<p>PROJECT No. 239078(8)7 - DISCIPLINE WAT - NUMBER 102 - REV. 1</p>																																										

239078(8)7-WAC-202

100mm AT FULL SIZE  
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- LEGEND**
- RW — PVC-M RECYCLED WATER RETICULATION
  - RWS — PE RECYCLED WATER PROPERTY SERVICE
  - W — PVC-M POTABLE WATER RETICULATION
  - SP — PE PRESSURE SEWER RETICULATION
  - EX PW — EXISTING POTABLE WATER RETICULATION
  - EX RW — EXISTING RECYCLED WATER RETICULATION
  - EX PS — EXISTING PRESSURE SEWER RETICULATION
  - SW — STORMWATER PIPEWORK
  - ex g — EXISTING GAS
  - ex e — EXISTING ELECTRICITY
  - ex SP — EXISTING SEWER PRESSURE
  - ex RW — EXISTING RECYCLED WATER

- S.V. — STOP VALVE
- HYD. — HYDRANT
- FL. HYD. — FLUSHING HYDRANT
- LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- PROPERTY SERVICE CONNECTION
- PROPOSED EASEMENT
- LIMIT OF WORKS

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 21 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 12 x SHORT SIDE
    - 9 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	158

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 102.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 302.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRGS-403 & 404.
  - LOTS 307-322 ARE SUBJECT TO FUTURE REDEVELOPMENT APPLICATION AND SUBDIVISION WORKS CERTIFICATE.

**WORK AS CONSTRUCTED**

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	NICHOLAS GANN	NAME	
SIGNED	DATE 17/11/2025	SIGNED	DATE .....
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM	57533	Co-Ord System	MGA Ground
E	345 5423.957	MGA Datum	GDA94
N	6 340 377.094	MGA Zone	56
RL	20.139m		



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	07.03.2025	INITIAL ISSUE	I.B.	M.K.	M.K.	C.H.	0 5 10 A1 / A3
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1	19.11.2025	WORK AS CONSTRUCTED	T.A.	M.K.	M.K.	C.H.	

CONTOUR INTERVAL: 0.2m

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

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

CLIENT

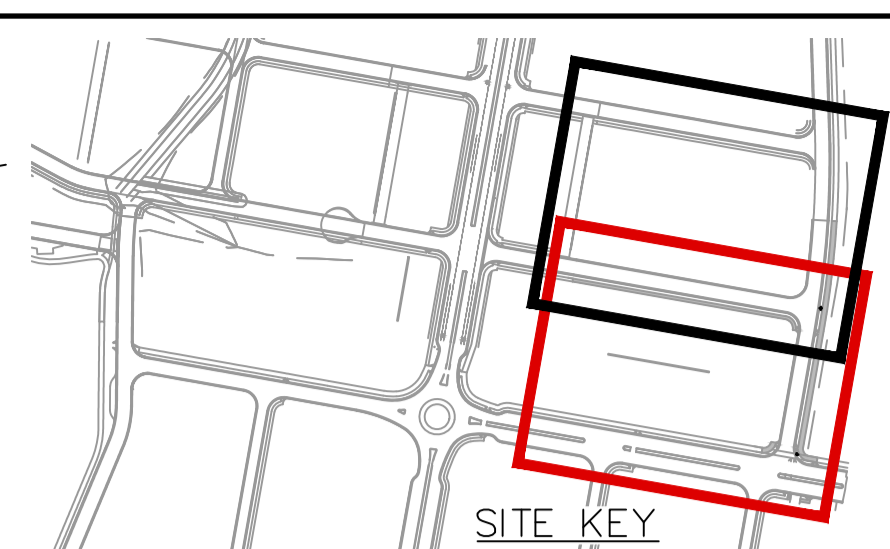
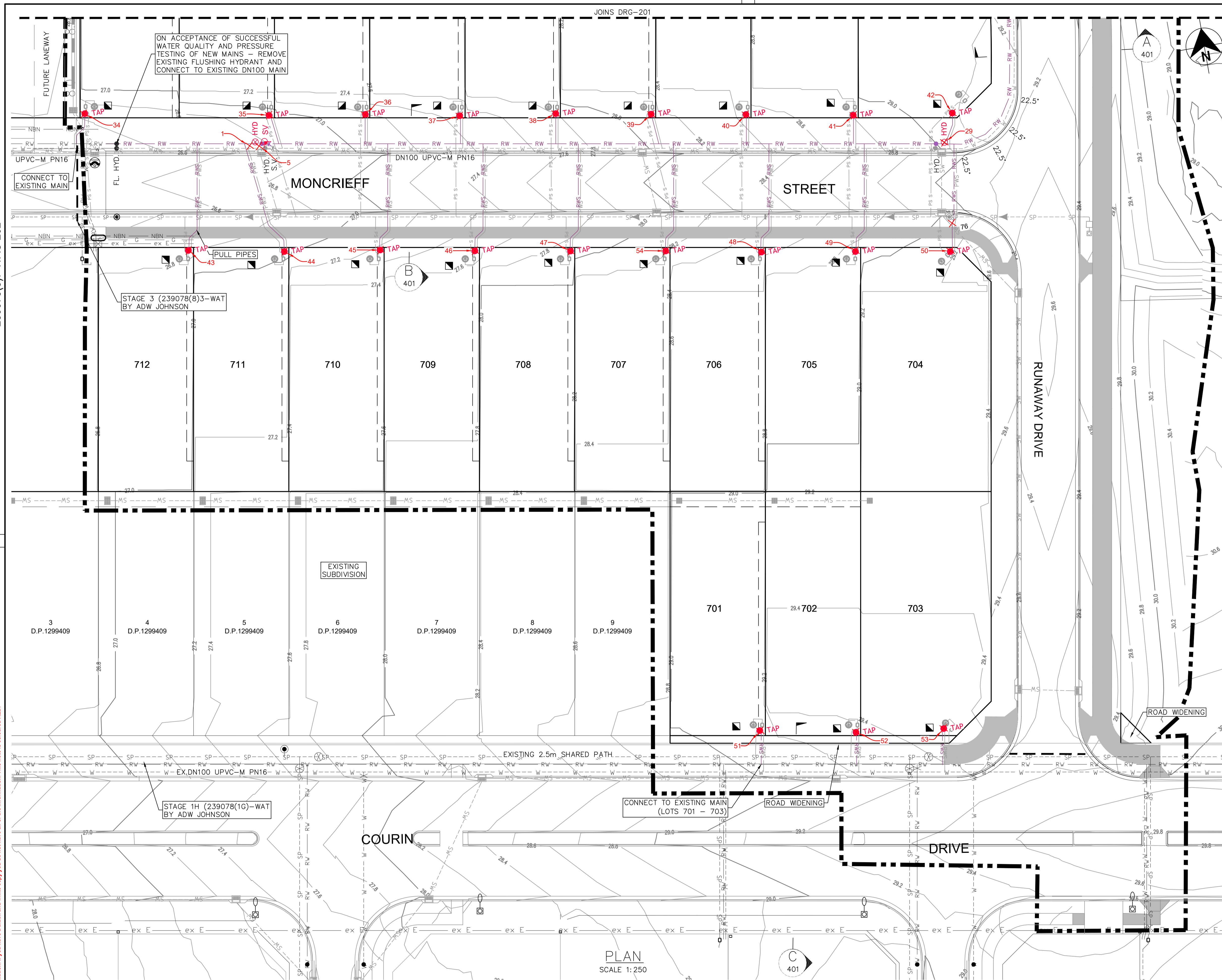
PROPERTY DESCRIPTION  
WATAGAN PARK  
PRECINCT NORTH E - STAGE 7  
LOT 88, D.P.1303421  
45 MCCULLOUGH STREET,  
COORANBONG  
DA/918/2023

SURVEYED ADW Johnson    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.
239078(8)7	WAT	201	1

239078(8)7-WAC-202

100mm AT FULL SIZE  
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- LEGEND**
- RW PVC-M RECYCLED WATER RETICULATION
  - RWS PE RECYCLED WATER PROPERTY SERVICE
  - W PVC-M POTABLE WATER RETICULATION
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  - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
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  - LIMIT OF WORKS

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RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	158

- NOTES:**
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  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 302.
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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	NICHOLAS GANN	NAME	
SIGNED	DATE 17/11/2025	SIGNED	DATE .....
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM	57533	Co-Ord System	MGA Ground
E	345 5423.957		MGA Datum: GDA94
N	6 340 377.094		MGA Zone: 56
RL	20.139m		



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT
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0	16.05.2025	CONSTRUCTION ISSUE
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DRAWN	CHECK	DESIGN	VERIFY	SCALES
I.B.	M.K.	M.K.	C.H.	0 5 10 A1 / A3
I.B.	M.K.	M.K.	C.H.	1:250 / 1:500
I.B.	M.K.	M.K.	C.H.	
T.A.	M.K.	M.K.	C.H.	

**adw Johnson**

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

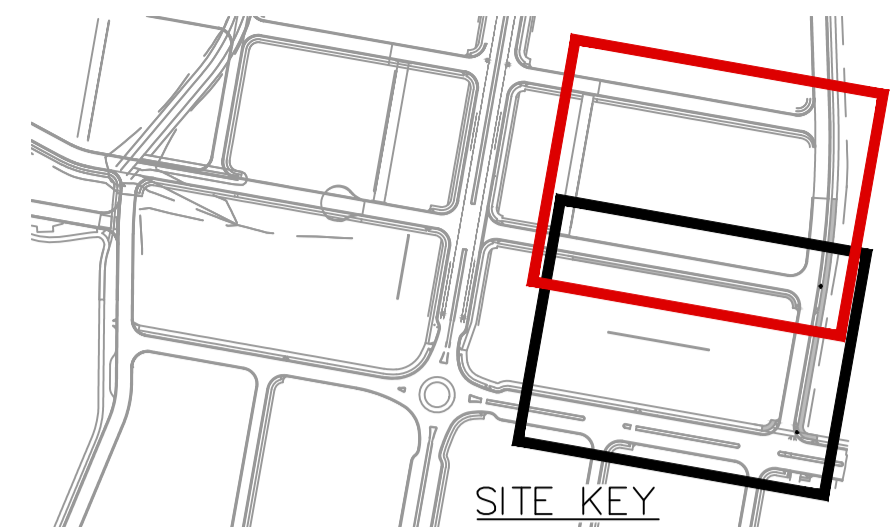
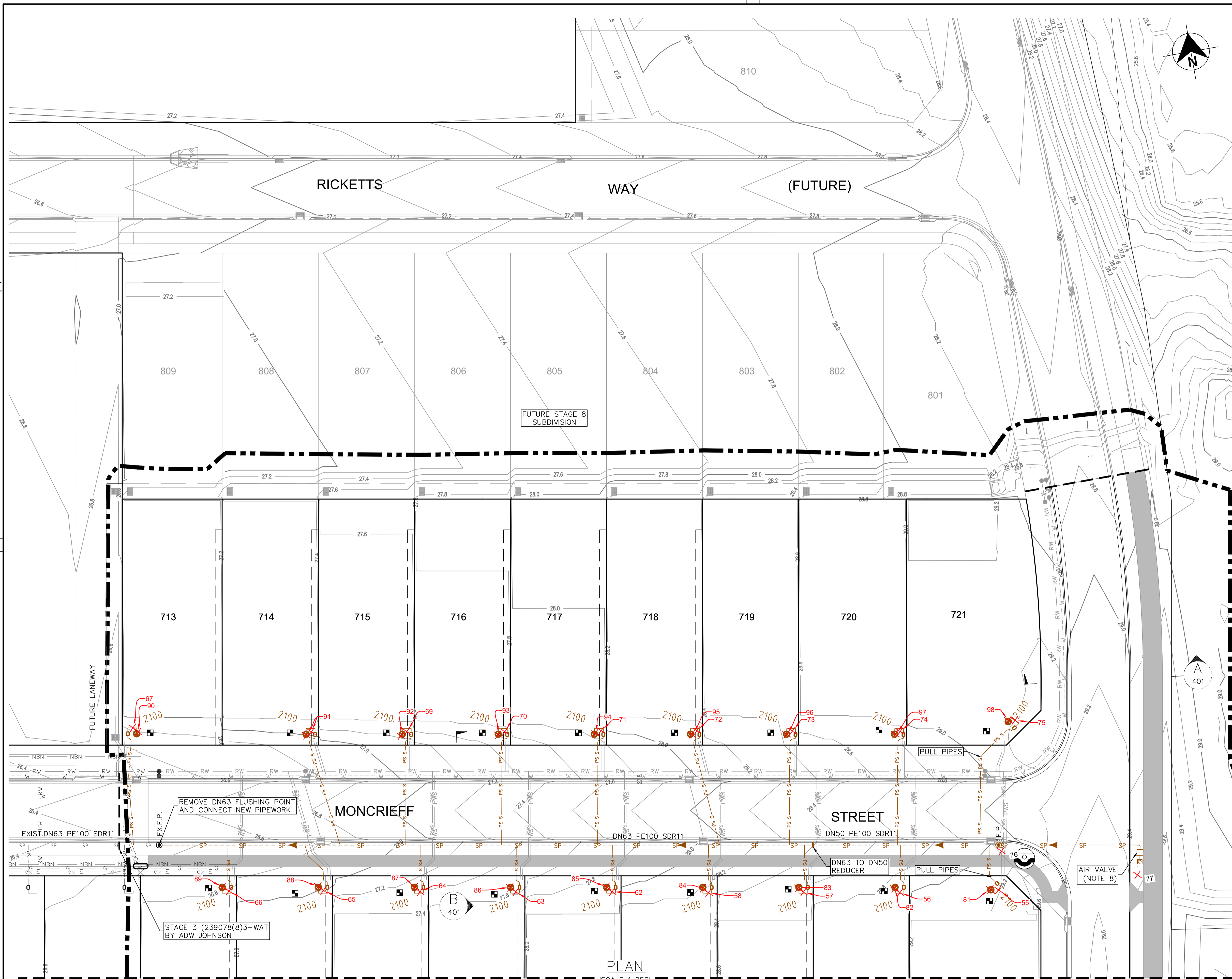
**JOHNSON PROPERTY GROUP**

PROPERTY DESCRIPTION  
WATAGAN PARK  
PRECINCT NORTH E - STAGE 7  
LOT 88, D.P.1303421  
45 MCCULLOUGH STREET,  
COORANBONG  
DA/918/2023

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 2		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(8)7	WAT	202	1

239078(8)7-WAC-302

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**
- SP PE PRESSURE SEWER RETICULATION
  - PS S PE PRESSURE SEWER PROPERTY SERVICE
  - W PVC-M POTABLE WATER RETICULATION
  - RW PVC-M RECYCLED WATER RETICULATION
  - EX PS EXISTING PRESSURE SEWER RETICULATION
  - EX PW EXISTING POTABLE WATER RETICULATION
  - EX RW EXISTING RECYCLED WATER RETICULATION
  - SW STORMWATER PIPEWORK
  - ex g EXISTING GAS
  - ex e EXISTING ELECTRICITY
  - ex SP EXISTING SEWER PRESSURE
  - ex RW EXISTING RECYCLED WATER
  - AIR VALVE
  - I.V. ISOLATION VALVE
  - I.V. (N.C.) ISOLATION VALVE - NORMALLY CLOSED
  - F.P. FLUSHING POINT
  - BOUNDARY KIT
  - PRESSURE SEWER FLOW DIRECTION (TEMP. - RED), (ULTIMATE)
  - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - PROPERTY SERVICE CONNECTION - STD CONNECTION
  - PROPOSED EASEMENT
  - LIMIT OF WORKS
  - PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
    - TOTAL 21 CONNECTIONS
    - SINGLE SERVICES
    - 12 x SHORT SIDE
    - 9 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN50	PE100 SDR11	41
DN63	PE100 SDR11	85

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 102.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 202.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-404.
  - 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 DIA.
  - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
  - PROVIDE BELOW GROUND AIR VALVE TO STANDARD DRAWING PSS-1016B-FS.

**WORK AS CONSTRUCTED**

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 17/11/2025 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	NICHOLAS GANN	NAME	
SIGNED	DATE 17/11/2025	SIGNED	DATE .....
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM	57533	Co-Ord System	MGA Ground
E	345 5423.957	MGA Datum	GDA94
N	6 340 377.094	MGA Zone	56
RL	20.139m		

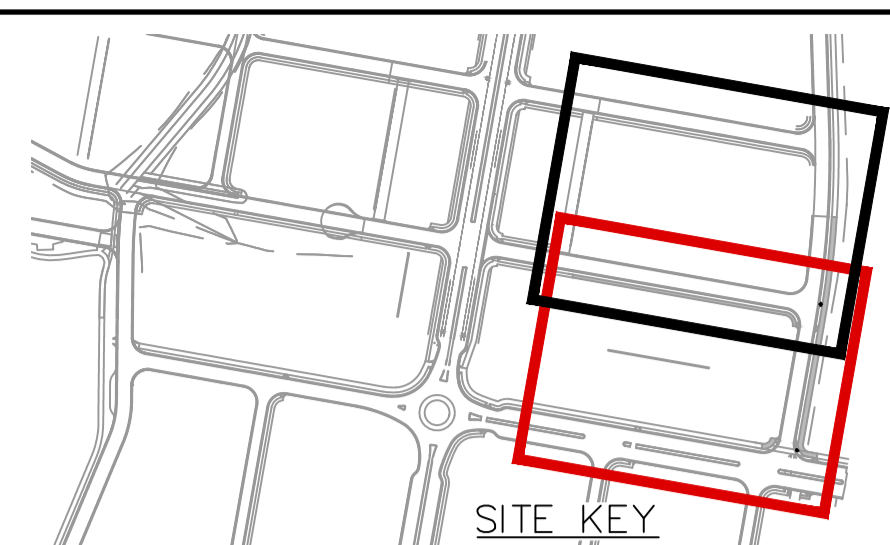
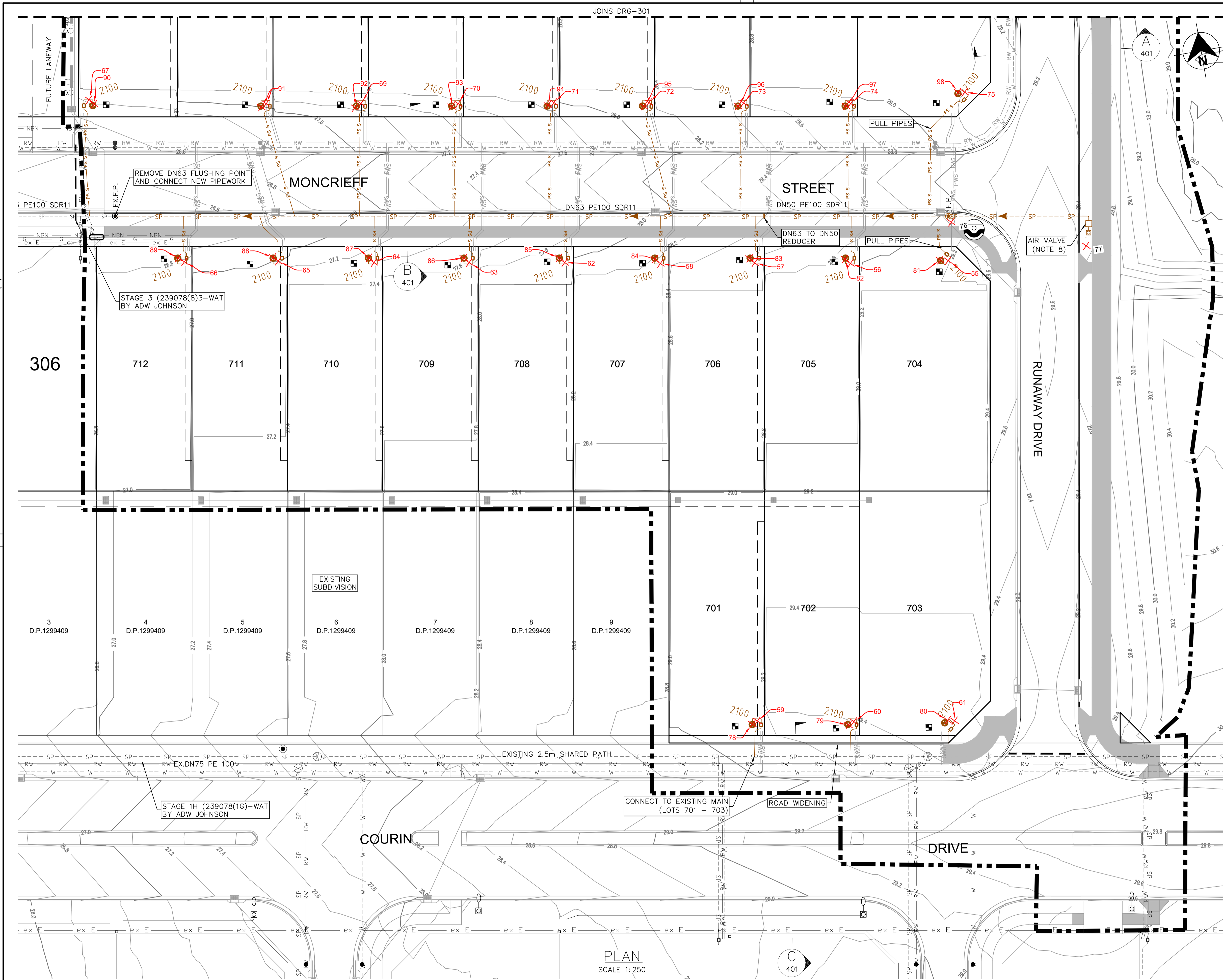


WORK AS CONSTRUCTED

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239078(8)7-WAC-302

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  - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-107-FS.
  - FOR FLOW MONITORING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-115-FS.
  - CONTRACTOR MAY BEND POLYETHYLENE PIPEWORK IN PLACE OF USING STANDARD FITTINGS WITH A MIN. BENDING RADIUS OF 20 x PIPE DIA.
  - ALL BENDS SHALL BE ELECTROFUSION SWEEP BENDS (FABRICATED BENDS SHALL NOT BE USED).
  - PROVIDE BELOW GROUND AIR VALVE TO STANDARD DRAWING PSS-1016B-FS.

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	NICHOLAS GANN	NAME	
SIGNED	DATE 17/11/2025	SIGNED	DATE
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM	57533	Co-Ord System	MGA Ground
E	345 5423 957	MGA Datum	GDA94
N	6 340 377 094	MGA Zone	56
RL	20.139m		



WORK AS CONSTRUCTED

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0	16.05.2025	CONSTRUCTION ISSUE
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DRAWN	CHECK	DESIGN	VERIFY	SCALES
I.B.	M.K.	M.K.	C.H.	0 5 10 A1 / A3
I.B.	M.K.	M.K.	C.H.	1:250 / 1:500
I.B.	M.K.	M.K.	C.H.	
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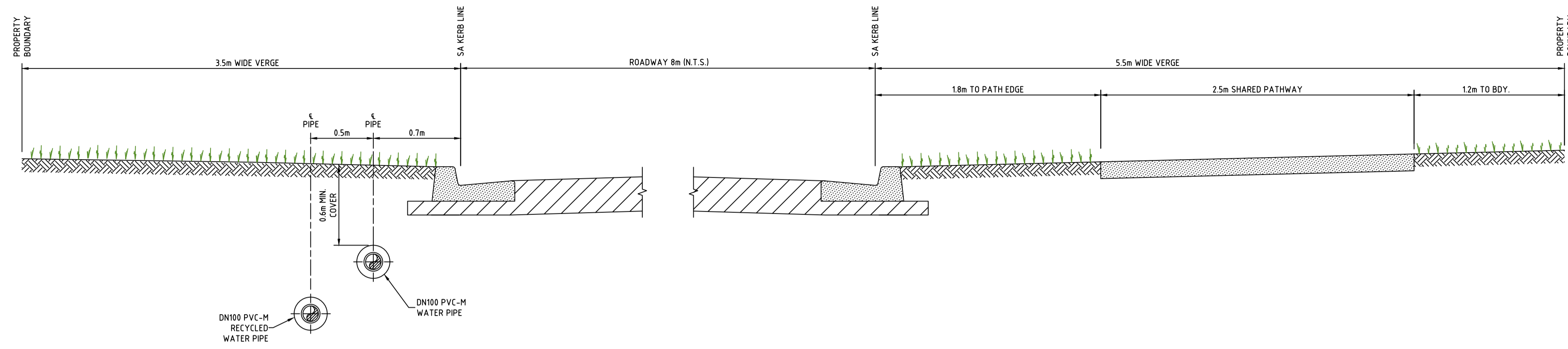
**adw Johnson**

Hunter Office  
Unit 7/335 Hillsborough Rd  
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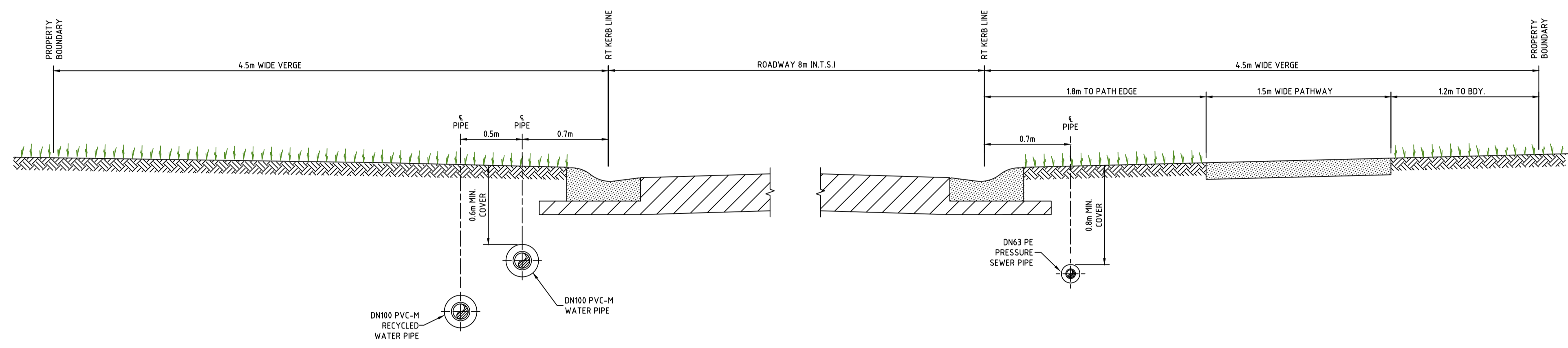
**JOHNSON PROPERTY GROUP**

PROPERTY DESCRIPTION  
WATAGAN PARK  
PRECINCT NORTH E - STAGE 7  
LOT 88, D.P.1303421  
45 MCCULLOUGH STREET,  
COORANBONG  
DA/918/2023

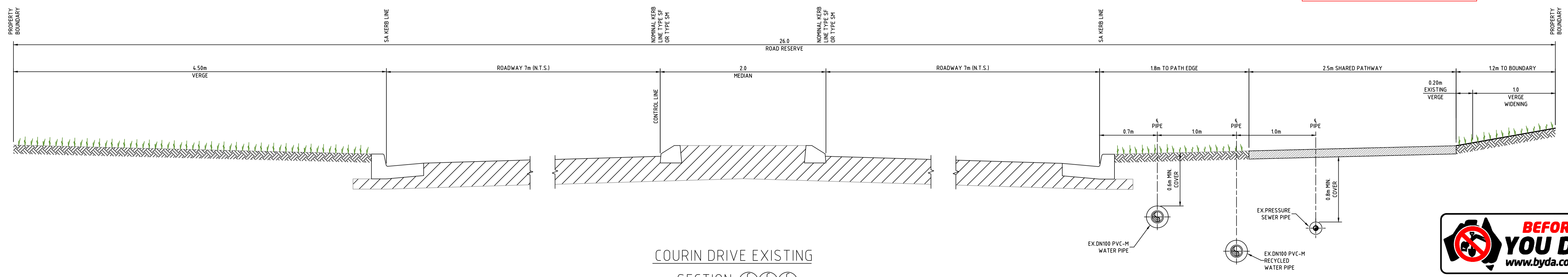
PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	SEWER DETAIL PLAN - SHEET 2		
PROJECT No.	DISCIPLINE	NUMBER	REV.
239078(8)7	- WAT	- 302	1



**RUNAWAY DRIVE**  
SECTION A107 A202 A302  
SCALE 1:25



**MONCRIEFF STREET**  
SECTION B107 B202 B302  
SCALE 1:25



**COURIN DRIVE EXISTING**  
SECTION C107 C202 C302  
SCALE 1:25

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COMPANY ADW Johnson Pty Ltd COMPANY  
NAME NICHOLAS GANN NAME  
SIGNED DATE 17/11/2025 SIGNED DATE  
REGISTERED SURVEYOR CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

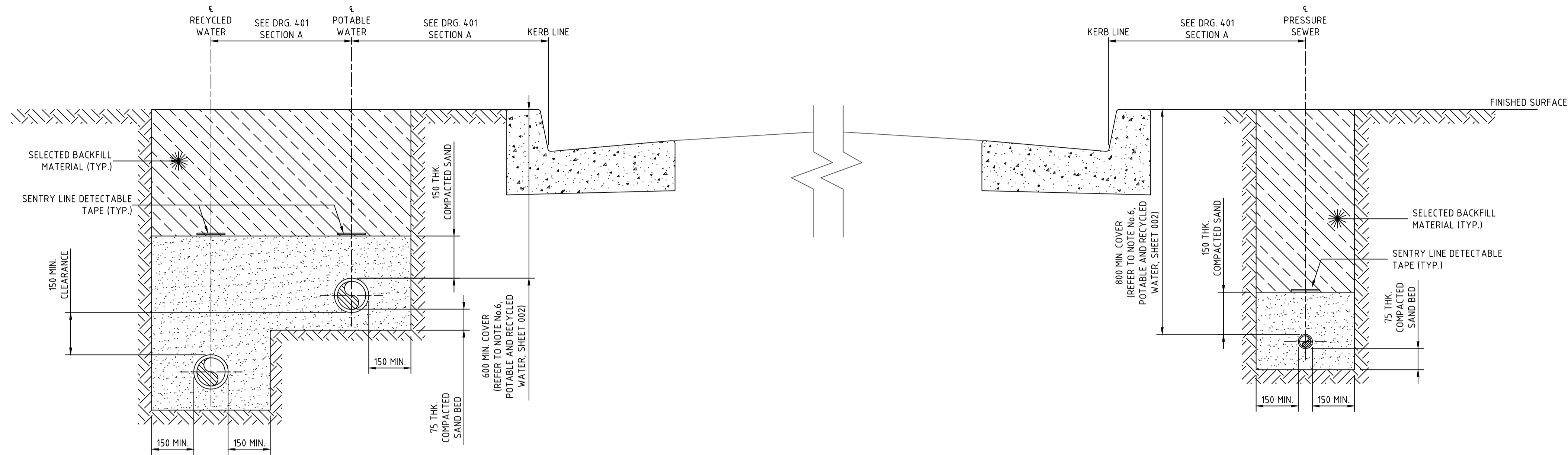
PM 57533 Co-Ord System: MGA Ground  
E: 345 5423 957 MGA Datum: GDA94  
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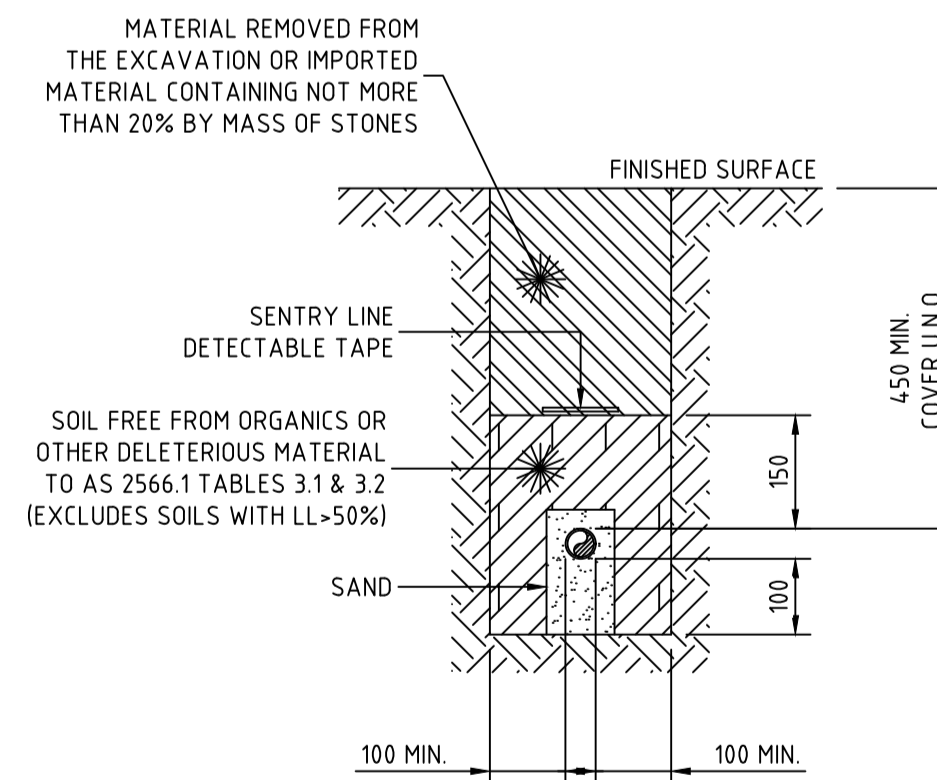
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STREET PRESSURE MAIN  
TYPICAL DETAIL - SECTION A  
SCALE 1:10



PRIVATE PROPERTY PRESSURE MAIN  
TYPICAL DETAIL  
SCALE 1:10

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	NICHOLAS GANN	NAME	
SIGNED		DATE	17/11/2025
	REGISTERED SURVEYOR	SIGNED	
		DATE	...../...../.....
			CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

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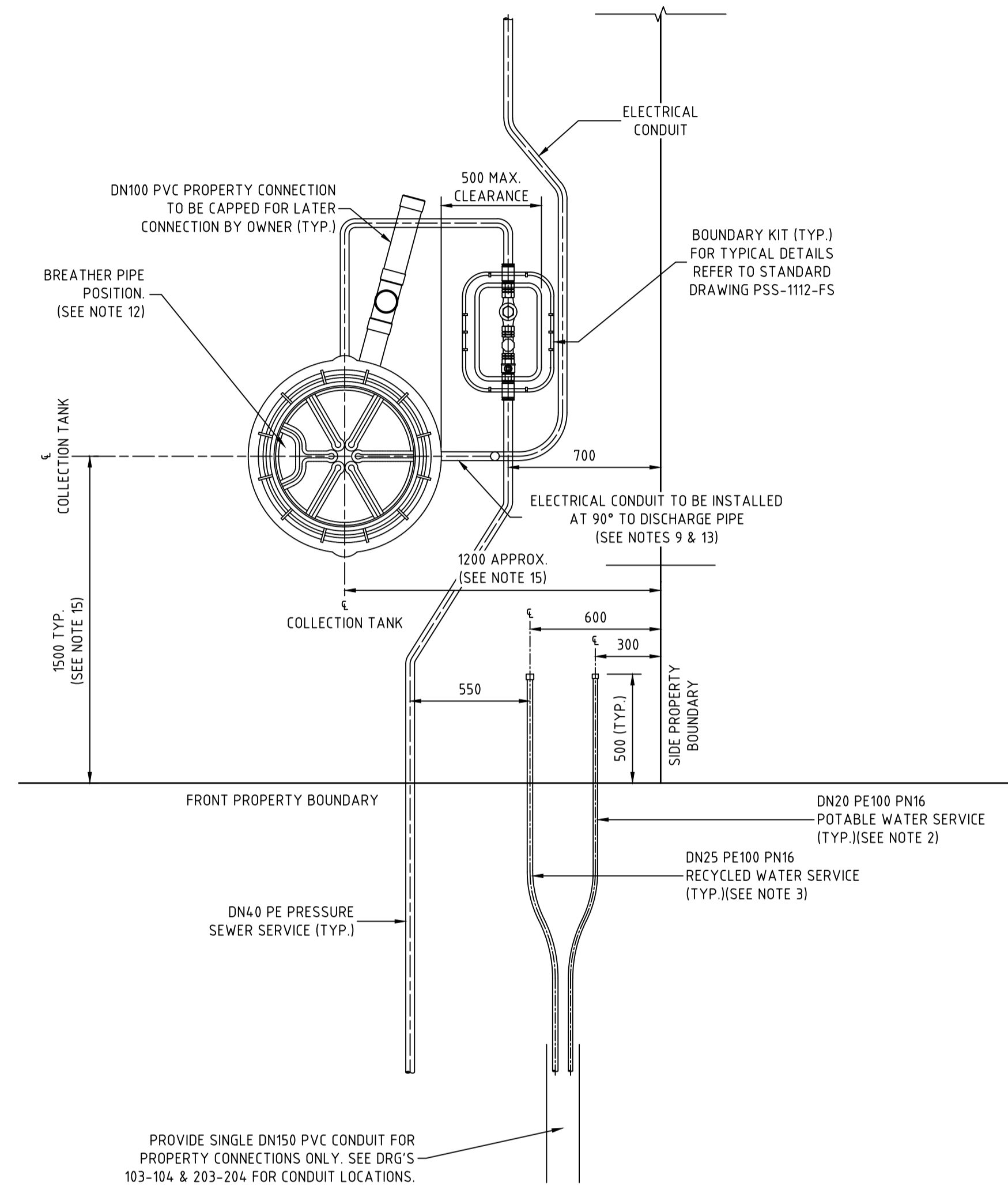


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1	19.11.2025	WORK AS CONSTRUCTED	T.A.	M.K.	M.K.	C.H.													

**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.
- 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. Ø25 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.



TYPICAL MEDIUM DENSITY LOTS  
SINGLE PROPERTY CONNECTION DETAIL  
SCALE 1:20

**WORK AS CONSTRUCTED**

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 17/11/2025 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	NICHOLAS GANN	NAME	
SIGNED	DATE 17/11/2025	SIGNED	DATE .....
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

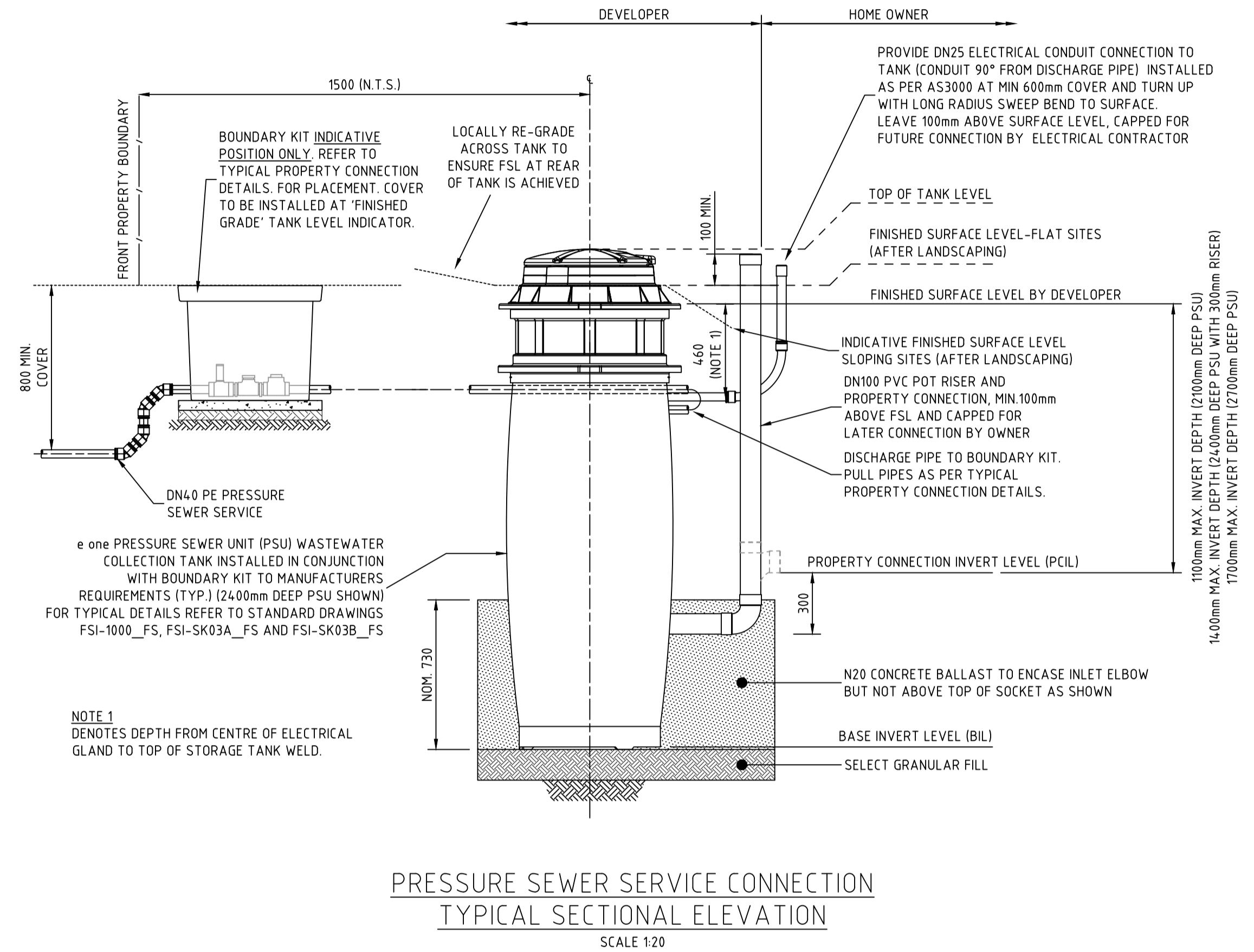
PM	57533	Co-Ord System	MGA Ground
E	345 5423.957	MGA Datum	GDA94
N	6 340 377.094	MGA Zone	56
RL	20.139m		



**WORK 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 WATAGAN PARK PRECINCT NORTH E - STAGE 7 LOT 88, D.P.1303421 45 MCCULLOUGH STREET, COORANBONG DA/918/2023	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
A	07.03.2025	INITIAL ISSUE	I.B.	M.K.	M.K.	C.H.							PLAN TITLE	TYPICAL PROPERTY CONNECTION DETAILS		
B	15.05.2025	ALTOGETHER COMMENTS	I.B.	M.K.	M.K.	C.H.							PROJECT No.	DISCIPLINE	NUMBER	REV.
0	16.05.2025	CONSTRUCTION ISSUE	I.B.	M.K.	M.K.	C.H.							239078(8)7	- WAT	- 403	1
1	19.11.2025	WORK AS CONSTRUCTED	T.A.	M.K.	M.K.	C.H.										

WASTEWATER COLLECTION TANK DETAILS									TOP OF COLLECTION TANK LID	CALCULATED WAC SANITARY DRAINAGE INVERT LEVEL	WAC V'S DESIGN INVERT LEVEL COMPARISON
LOT NUMBER	TOP OF TANK	TANK FSL	BASE IL	PROPERTY CONNECTION IL	TANK HEIGHT	TANK LOCATION	EASTING	NORTHING			
m	29.44	29.16	27.31	28.06	2100	FRONT BATTER	356456.11	6340603.41	29.48	28.11	0.05
702	29.74	29.46	27.61	28.36	2100	FRONT BATTER	356468.42	6340601.23	29.78	28.41	0.05
703	29.74	29.46	27.61	28.36	2100	FRONT BATTER	356481.47	6340599.58	29.77	28.39	0.03
704	29.48	29.20	27.35	28.10	2100	FRONT BATTER	356491.00	6340658.94	29.42	28.04	-0.06
705	29.18	28.90	27.05	27.80	2100	FRONT BATTER	356478.79	6340661.44	29.08	27.71	-0.09
706	28.88	28.60	26.75	27.50	2100	FRONT BATTER	356466.48	6340663.62	28.78	27.40	-0.10
707	28.58	28.30	26.45	27.20	2100	FRONT BATTER	356454.17	6340665.79	28.45	27.08	-0.12
708	28.28	28.00	26.15	26.90	2100	FRONT BATTER	356441.86	6340667.97	28.17	26.80	-0.10
709	27.98	27.70	25.85	26.60	2100	FRONT BATTER	356429.55	6340670.15	27.82	26.44	-0.16
710	27.68	27.40	25.55	26.30	2100	FRONT BATTER	356417.24	6340672.33	27.54	26.17	-0.14
711	27.38	27.10	25.25	26.00	2100	FRONT BATTER	356404.93	6340674.51	27.28	25.91	-0.09
712	27.14	26.86	25.01	25.76	2100	FRONT BATTER	356392.63	6340676.69	27.09	25.72	-0.04
713	26.68	26.40	24.55	25.30	2100	FRONT BATTER	356385.14	6340698.29	27.03	25.65	0.35
714	27.54	27.26	25.41	26.16	2100	FRONT BATTER	356406.83	6340694.39	27.31	25.93	-0.23
715	27.76	27.48	25.63	26.38	2100	FRONT BATTER	356419.14	6340692.22	27.48	26.11	-0.27
716	27.99	27.71	25.86	26.61	2100	FRONT BATTER	356431.45	6340690.04	27.79	26.42	-0.19
717	28.21	27.93	26.08	26.83	2100	FRONT BATTER	356443.76	6340687.86	28.09	26.71	-0.12
718	27.51	27.23	25.38	26.13	2100	FRONT BATTER	356456.07	6340685.68	28.40	27.02	0.90
719	28.69	28.41	26.56	27.31	2100	FRONT BATTER	356468.38	6340683.50	28.66	27.29	-0.03
720	29.09	28.81	26.96	27.71	2100	FRONT BATTER	356482.21	6340681.05	29.04	27.66	-0.05
721	29.38	29.10	27.25	28.00	2100	FRONT BATTER	356497.05	6340680.10	29.43	28.05	0.05



WASTEWATER COLLECTION TANK COUNT (TOTAL)

TANK SIZE	NUMBER OF
2100	21
2400	0
2700	0

PRESSURE SEWER SERVICE CONNECTION  
TYPICAL SECTIONAL ELEVATION  
SCALE 1:20

**WORK AS CONSTRUCTED**

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	NICHOLAS GANN	NAME	
SIGNED		SIGNED	
REGISTERED SURVEYOR		CONSTRUCTION MANAGER	

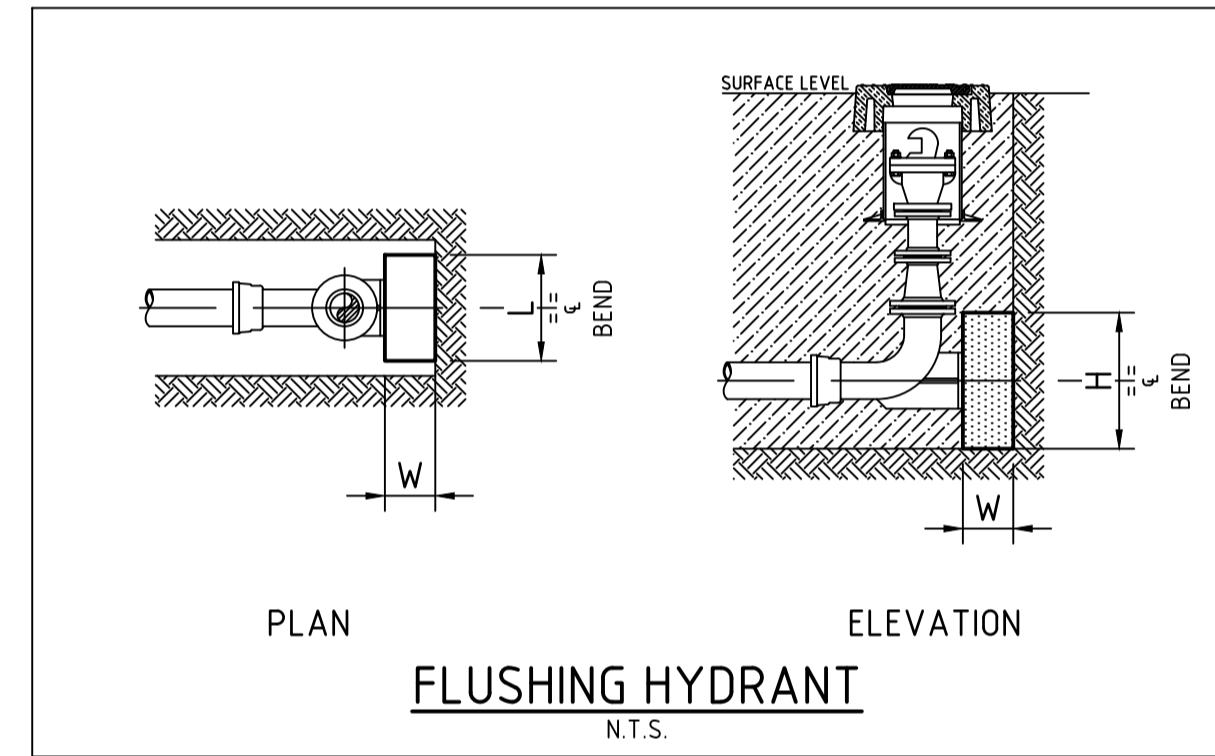
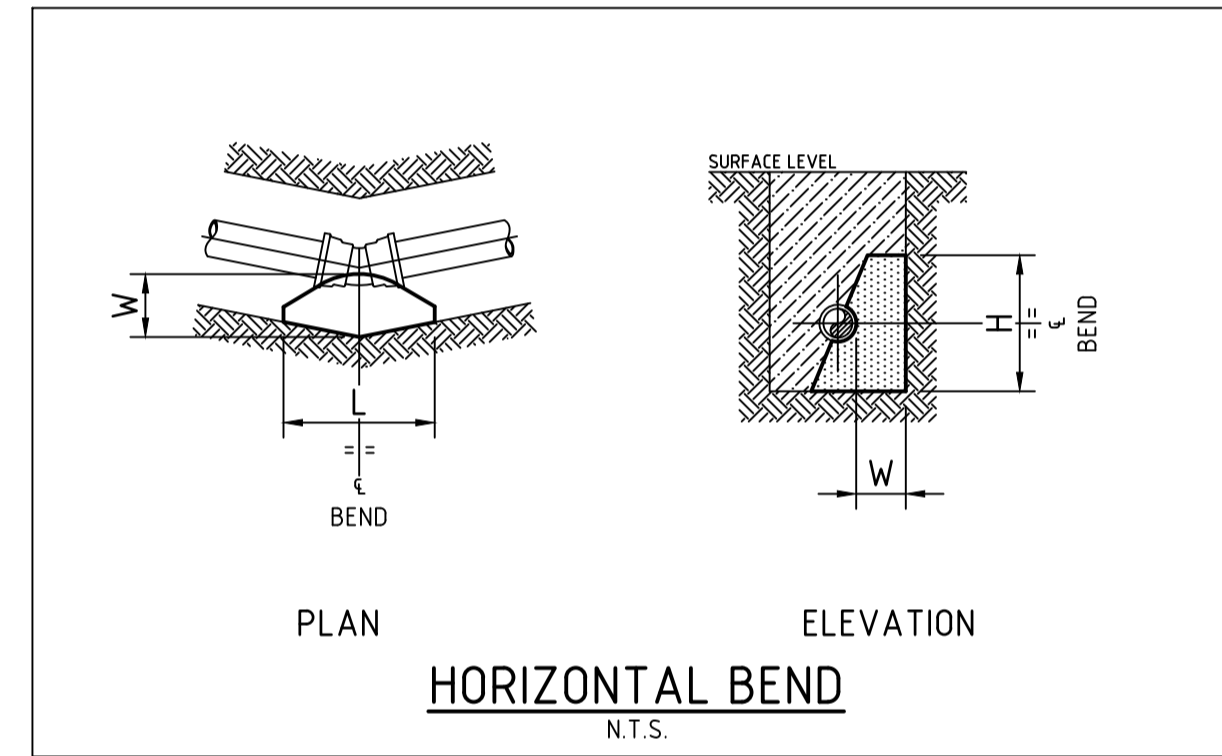
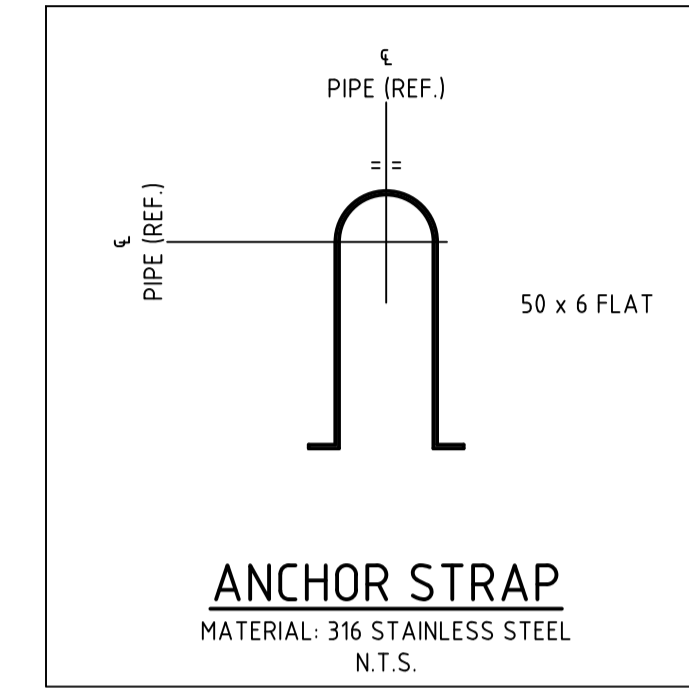
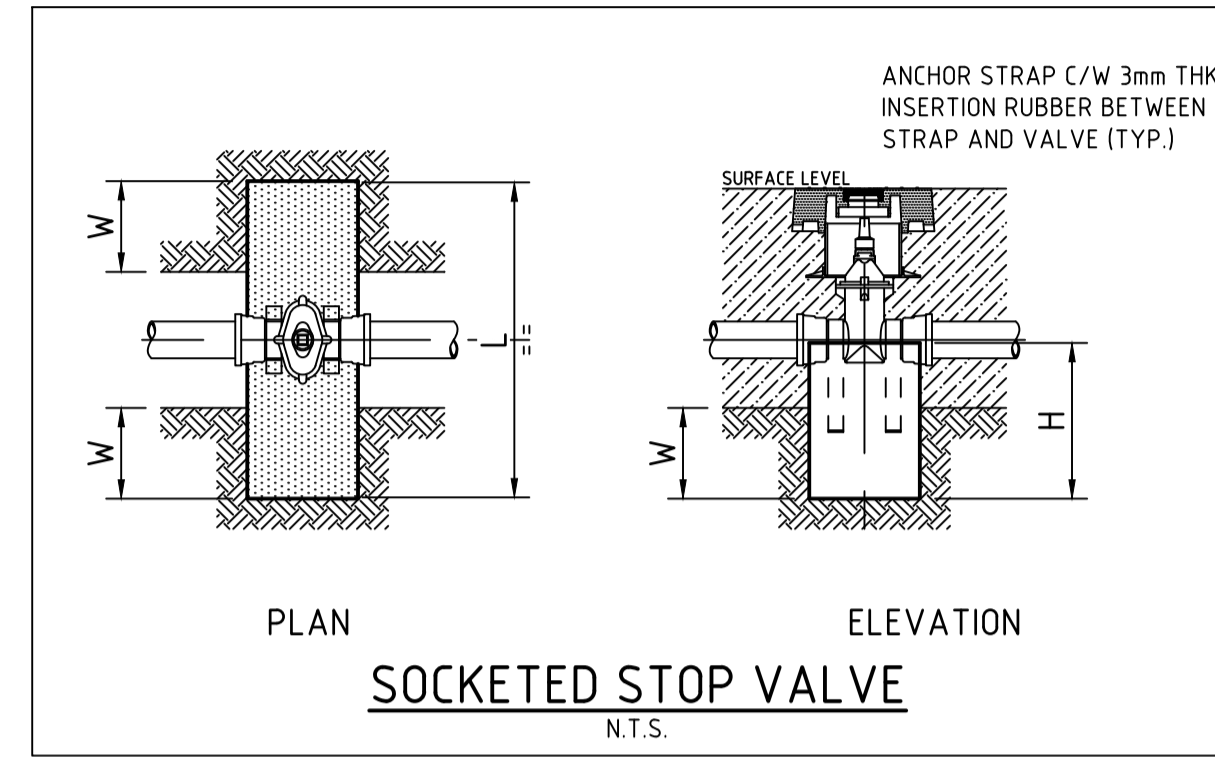
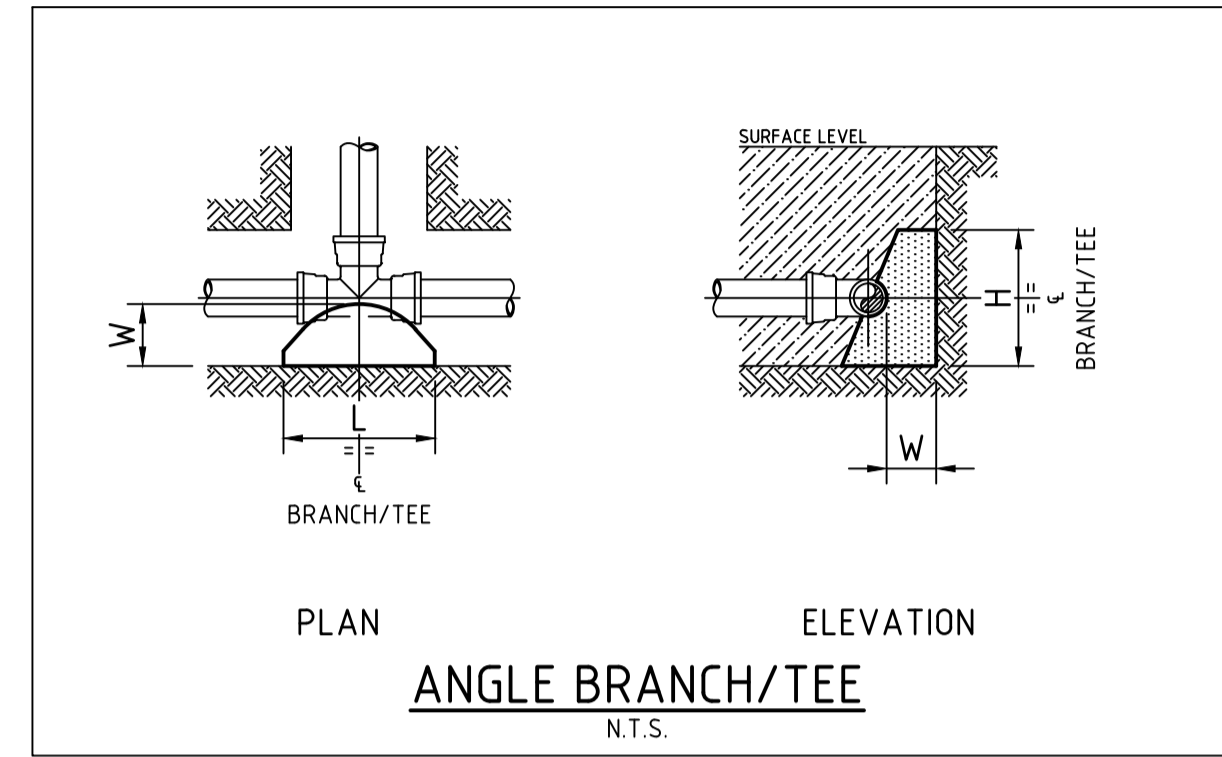
**ORIGIN OF W.A.C. LEVELS**

PM 57533  
 E: 345 5423.957 Co-Ord System: MGA Ground  
 N: 6 340 377.094 MGA Datum: GDA94  
 RL: 20.139m MGA Zone: 56



WORK 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	PROJECT No. <b>239078(8)7</b>	DISCIPLINE <b>WAT</b>	NUMBER <b>404</b>	REV. <b>1</b>
A	07.03.2025	INITIAL ISSUE	I.B.	M.K.	M.K.	C.H.	WATAGAN PARK PRECINCT NORTH E - STAGE 7 LOT 88, D.P.1303421 45 MCCULLOUGH STREET, COORANBONG DA/918/2023					POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	PLAN TITLE WASTE WATER COLLECTION TANK LEVEL DETAILS				
B	15.05.2025	ALTOGETHER COMMENTS	I.B.	M.K.	M.K.	C.H.											
O	16.05.2025	CONSTRUCTION ISSUE	I.B.	M.K.	M.K.	C.H.											
1	19.11.2025	WORK AS CONSTRUCTED	T.A.	M.K.	M.K.	C.H.											



TYPE	FITTING	Soil		Thrust	TA (m <sup>2</sup> )	Length	Height	Width
		AHBP (kpa)	STP (kpa)					
1	DN100 SOCKETED STOP VALVE	100	1500	18.00	0.18	1.05	0.44	0.30
2	DN100 FLUSHING HYDRANT	100	1500	18.00	0.18	0.45	0.40	0.30
3	DN100 x 22.5° HORIZONTAL BEND	100	1500	7.50	0.08	N	N	0.30
4	DN100 END CAP	100	1500	18.00	0.18	0.45	0.40	0.30

**THRUST BLOCK NOTES:**

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

**WORK AS CONSTRUCTED**

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	NICHOLAS GANN	NAME	
SIGNED	DATE 17/11/2025	SIGNED	DATE .....
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM	57533	Co-Ord System	MGA Ground
E:	345 5423.957	MGA Datum	GDA94
N:	6 340 377.094	MGA Zone	56
RL:	20.139m		



**WORK 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 WATAGAN PARK PRECINCT NORTH E - STAGE 7 LOT 88, D.P.1303421 45 MCCULLOUGH STREET, COORANBONG DA/918/2023	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
PLAN TITLE											THRUST BLOCK DETAILS				
A	07.03.2025	INITIAL ISSUE	I.B.	M.K.	M.K.	C.H.				SURVEYED ADW Johnson	DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No.	DISCIPLINE	NUMBER	REV.
B	15.05.2025	ALTOGETHER COMMENTS	I.B.	M.K.	M.K.	C.H.		239078(8)7				WAT	405	1	
O	16.05.2025	CONSTRUCTION ISSUE	I.B.	M.K.	M.K.	C.H.									
1	19.11.2025	WORK AS CONSTRUCTED	T.A.	M.K.	M.K.	C.H.									

Point Table				
Point #	Elevation	Easting	Northing	Description
1	26.83	356404.29	6340689.68	waHYD
2	29.08	356493.39	6340673.86	waHYD
3	28.98	356506.99	6340702.85	waHYD
4	28.96	356507.08	6340712.28	waHYD
5	26.83	356405.50	6340689.44	waSV
6	28.97	356507.09	6340704.44	waSV
7	26.50	356383.36	6340697.66	waTAP
8	26.93	356407.74	6340693.11	waTAP
9	27.16	356420.17	6340691.01	waTAP
10	26.50	356394.32	6340677.53	waTAP
11	26.81	356406.62	6340675.18	waTAP
12	27.02	356419.08	6340673.15	waTAP
13	27.45	356431.25	6340670.98	waTAP
14	27.45	356432.37	6340688.69	waTAP
15	27.82	356444.77	6340686.77	waTAP
16	28.11	356457.13	6340684.51	waTAP
17	28.46	356469.30	6340682.30	waTAP
18	28.17	356455.89	6340666.56	waTAP
19	27.97	356443.61	6340668.66	waTAP
20	28.63	356468.32	6340664.26	waTAP
21	28.83	356480.40	6340662.21	waTAP
22	29.24	356492.66	6340660.00	waTAP
23	28.83	356483.19	6340679.79	waTAP
24	29.12	356496.05	6340677.77	waTAP
25	29.46	356480.86	6340598.52	waTAP
26	29.33	356469.46	6340600.11	waTAP
27	29.33	356457.13	6340602.44	waTAP
28	26.84	356405.10	6340690.05	waHYDR
29	29.10	356494.09	6340674.24	waHYDR
30	28.99	356506.67	6340703.65	waHYDR
31	28.95	356506.64	6340712.23	waHYDR
32	26.85	356406.29	6340689.89	waSVR
33	28.96	356506.78	6340705.06	waSVR
34	26.50	356383.62	6340697.61	waTAPR
35	26.92	356407.51	6340693.18	waTAPR
36	27.13	356419.91	6340691.08	waTAPR
37	27.44	356432.12	6340688.74	waTAPR
38	27.84	356444.55	6340686.86	waTAPR
39	28.13	356456.89	6340684.56	waTAPR
40	28.42	356469.10	6340682.36	waTAPR

Point Table				
Point #	Elevation	Easting	Northing	Description
41	28.85	356483.01	6340679.81	waTAPR
42	29.12	356495.81	6340677.83	waTAPR
43	26.60	356394.02	6340677.57	waTAPR
44	26.84	356406.41	6340675.22	waTAPR
45	27.07	356418.82	6340673.22	waTAPR
46	27.47	356430.98	6340670.99	waTAPR
47	27.98	356443.33	6340668.71	waTAPR
48	28.58	356468.02	6340664.32	waTAPR
49	28.82	356480.14	6340662.27	waTAPR
50	29.15	356492.41	6340660.09	waTAPR
51	29.31	356456.87	6340602.47	waTAPR
52	29.42	356469.25	6340600.12	waTAPR
53	29.53	356480.62	6340598.60	waTAPR
54	28.14	356455.68	6340666.58	waTAPR
55	29.32	356491.97	6340658.77	seBDYKIT
56	28.99	356479.29	6340660.63	seBDYKIT
57	28.66	356466.95	6340662.90	seBDYKIT
58	28.36	356454.77	6340664.97	seBDYKIT
59	29.38	356456.85	6340603.75	seBDYKIT
60	29.68	356469.27	6340601.47	seBDYKIT
61	29.62	356482.29	6340599.27	seBDYKIT
62	28.08	356442.45	6340667.28	seBDYKIT
63	27.70	356430.12	6340669.46	seBDYKIT
64	27.46	356417.85	6340671.63	seBDYKIT
65	27.18	356405.51	6340674.00	seBDYKIT
66	26.97	356393.40	6340676.06	seBDYKIT
67	26.92	356384.80	6340699.14	seBDYKIT
68	27.21	356407.56	6340694.58	seBDYKIT
69	27.39	356419.79	6340692.44	seBDYKIT
70	27.67	356432.34	6340690.20	seBDYKIT
71	27.99	356444.71	6340688.16	seBDYKIT
72	28.28	356456.96	6340685.98	seBDYKIT
73	28.57	356469.18	6340683.77	seBDYKIT
74	28.90	356482.98	6340681.26	seBDYKIT
75	29.29	356497.94	6340680.11	seBDYKIT
76	29.11	356493.25	6340663.64	seFP
77	29.52	356510.12	6340657.52	seAV
78	29.48	356456.14	6340603.46	seTANK701
79	29.78	356468.52	6340601.14	seTANK702
80	29.77	356481.41	6340599.49	seTANK703

Point Table				
Point #	Elevation	Easting	Northing	Description
81	29.42	356490.96	6340659.01	seTANK704
82	29.08	356478.70	6340661.33	seTANK705
83	28.78	356466.40	6340663.59	seTANK706
84	28.45	356454.15	6340665.65	seTANK707
85	28.17	356441.86	6340668.03	seTANK708
86	27.82	356429.52	6340670.15	seTANK709
87	27.54	356417.30	6340672.36	seTANK710
88	27.28	356404.96	6340674.63	seTANK711
89	27.09	356392.67	6340676.69	seTANK712
90	27.03	356385.35	6340698.45	seTANK713
91	27.31	356406.85	6340694.26	seTANK714
92	27.48	356418.94	6340692.06	seTANK715
93	27.79	356431.43	6340689.98	seTANK716
94	28.09	356443.87	6340687.95	seTANK717
95	28.40	356456.23	6340685.62	seTANK718
96	28.66	356468.37	6340683.49	seTANK719
97	29.04	356482.30	6340681.05	seTANK720
98	29.43	356497.10	6340680.26	seTANK721

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	NICHOLAS GANN	NAME	
SIGNED	DATE 17/11/2025	SIGNED	DATE ..../..../..
	REGISTERED SURVEYOR		CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**

PM	57533	Co-Ord System	MGA Ground
E	345 5423.957	MGA Datum	GDA94
N	6 340 377.094	MGA Zone	56
RL	20.139m		



**WORK 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	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	07.03.2025	INITIAL ISSUE	I.B.	M.K.	M.K.	C.H.				WATAGAN PARK	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	239078(8)7	WAT	406	1
B	15.05.2025	ALTOGETHER COMMENTS	I.B.	M.K.	M.K.	C.H.				PRECINCT NORTH E - STAGE 7					
0	16.05.2025	CONSTRUCTION ISSUE	I.B.	M.K.	M.K.	C.H.				LOT 88, D.P.1303421					
1	19.11.2025	WORK AS CONSTRUCTED	T.A.	M.K.	M.K.	C.H.		45 MCCULLOUGH STREET, COORANBONG DA/918/2023	PLAN TITLE						
								DESIGN FILE N:\239078\239078(8)\DWG\Water & Sewer\WAT\Stage 3\X-239078(8)-WAT-DESIGN.dwg ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE		SURVEYED ADW Johnson		DATUM GDA94 M.G.A. ZONE 56 A.H.D.			