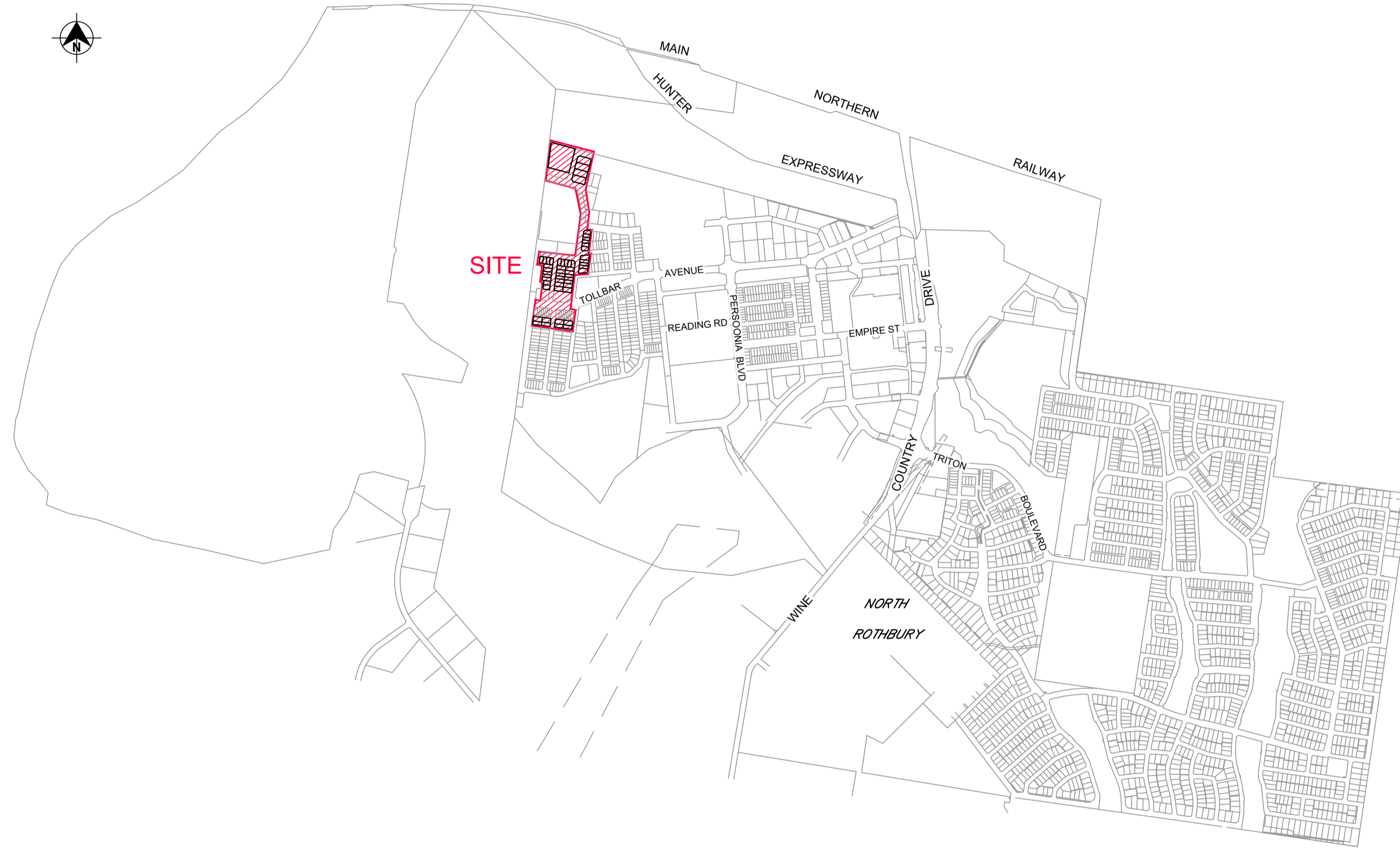


# PROPOSED SUBDIVISION BRIDGING RESIDENTIAL - STAGE BR5 HUNTLEE



LOCALITY SKETCH  
NOT TO SCALE

DRAWING INDEX	
Sheet Title	Sheet Description
240037(BR5)-WAC-001	COVER SHEET, LOCALITY PLAN & DRAWING INDEX
240037(BR5)-WAC-002	GENERAL NOTES
240037(BR5)-WAC-003	OVERALL SITE PLAN
240037(BR5)-WAC-101	POTABLE WATER DETAIL PLAN 1
240037(BR5)-WAC-102	POTABLE WATER DETAIL PLAN 2
240037(BR5)-WAC-103	POTABLE WATER DETAIL PLAN 3
240037(BR5)-WAC-104	POTABLE WATER DETAIL PLAN 4
240037(BR5)-WAC-105	POTABLE WATER DETAIL PLAN 5
240037(BR5)-WAC-106	POTABLE WATER DETAIL PLAN 6
240037(BR5)-WAC-107	POTABLE WATER DETAIL PLAN 7
240037(BR5)-WAC-108	POTABLE WATER TRUNK MAIN DETAIL PLAN AND LONG SECTION
240037(BR5)-WAC-201	RECYCLED WATER DETAIL PLAN 1
240037(BR5)-WAC-202	RECYCLED WATER DETAIL PLAN 2
240037(BR5)-WAC-203	RECYCLED WATER DETAIL PLAN 3
240037(BR5)-WAC-204	RECYCLED WATER DETAIL PLAN 4
240037(BR5)-WAC-205	RECYCLED WATER DETAIL PLAN 5
240037(BR5)-WAC-206	RECYCLED WATER DETAIL PLAN 6
240037(BR5)-WAC-207	RECYCLED WATER DETAIL PLAN 7
240037(BR5)-WAC-301	PRESSURE SEWER DETAIL PLAN 1
240037(BR5)-WAC-302	PRESSURE SEWER DETAIL PLAN 2
240037(BR5)-WAC-303	PRESSURE SEWER DETAIL PLAN 3
240037(BR5)-WAC-304	PRESSURE SEWER DETAIL PLAN 4
240037(BR5)-WAC-305	PRESSURE SEWER DETAIL PLAN 5
240037(BR5)-WAC-306	PRESSURE SEWER DETAIL PLAN 6
240037(BR5)-WAC-307	PRESSURE SEWER DETAIL PLAN 7
240037(BR5)-WAC-401	TYPICAL CROSS-SECTION AND PIPEWORK TRENCHING DETAILS
240037(BR5)-WAC-402	TYPICAL PROPERTY CONNECTION DETAILS - SHEET 1
240037(BR5)-WAC-403	TYPICAL PROPERTY CONNECTION DETAILS - SHEET 2
240037(BR5)-WAC-404	WASTE WATER COLLECTION DETAILS
240037(BR5)-WAC-405	THRUST BLOCK DETAIL
240037(BR5)-WAC-406	FITTINGS TABLE

**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 <i>[Signature]</i> DATE 12/05/2026	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	

PLAN  
SCALE 1:250



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION		PROJECT						
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.			<b>Hunter Office</b> Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		PROPOSED SUBDIVISION BRIDGING RESIDENTIAL - STAGE BR5 HUNTLEE		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION					
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.					PLAN TITLE COVER SHEET, LOCALITY PLAN & DRAWING INDEX							
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.					PROJECT No. 240037(BR5) - WAC - 001		DISCIPLINE - NUMBER - WAC - 001		REV. 4			
0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.					SURVEYED Daly.Smith Pty. Ltd.		DATUM GDA94 MGA56 A.H.D.		PROJECT No. 240037(BR5) - WAC - 001		DISCIPLINE - NUMBER - WAC - 001	
1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.					PROJECT No. 240037(BR5) - WAC - 001		DISCIPLINE - NUMBER - WAC - 001		REV. 4			
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.		PROJECT No. 240037(BR5) - WAC - 001		DISCIPLINE - NUMBER - WAC - 001		REV. 4						
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.		PROJECT No. 240037(BR5) - WAC - 001		DISCIPLINE - NUMBER - WAC - 001		REV. 4						
4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.		PROJECT No. 240037(BR5) - WAC - 001		DISCIPLINE - NUMBER - WAC - 001		REV. 4						

240037(BR5)-WAC-003

PRESSURE SEWER NOTES:

- 1. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA, 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.
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.
4. PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007 AND ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA.
5. ALL POLYETHYLENE MAINS <= DN200 SHALL BE JOINED USING ELECTROFUSION 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.
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 WSAA 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.
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 (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 CONTRACTOR 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. 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.
26. BOUNDARY KITS (COMPLETE) SHALL BE NOV SUPPLIED (INV 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.

PRESSURE SEWER NOTES:

- 33. FLUSHING POINT KITS TO BE TRAFFICABLE ENCLOSED - CLASS B. HOWEVER IF INSTALLATION TO BE INSTALLED IN FOOTPATH 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 WSAA 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 CONTRACTOR 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 CONTRACTOR 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 WATERMANS TO BE BLUE PVC-M (PN16). ALL RECYCLED WATERMANS 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 WSAA 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/TRENCHFILL TYPE AND THE NED 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 CONTRACTOR 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/M 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-

PLAN SCALE 1:250

GENERAL NOTES:

- 1. THIS DRAWING SET SHALL BE READ IN CONJUNCTION WITH CESSNOCK CITY COUNCIL STANDARDS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA 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 4 columns: UTILITY (EXISTING OR PROPOSED SERVICE), MINIMUM HORIZONTAL CLEARANCE (mm) NEW MAIN SIZE, MINIMUM VERTICAL CLEARANCE (mm). Rows include Water Mains, Gas Mains, Telecommunication Conduits, Stormwater Drains, Sewers, and 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 (1500mm), 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.

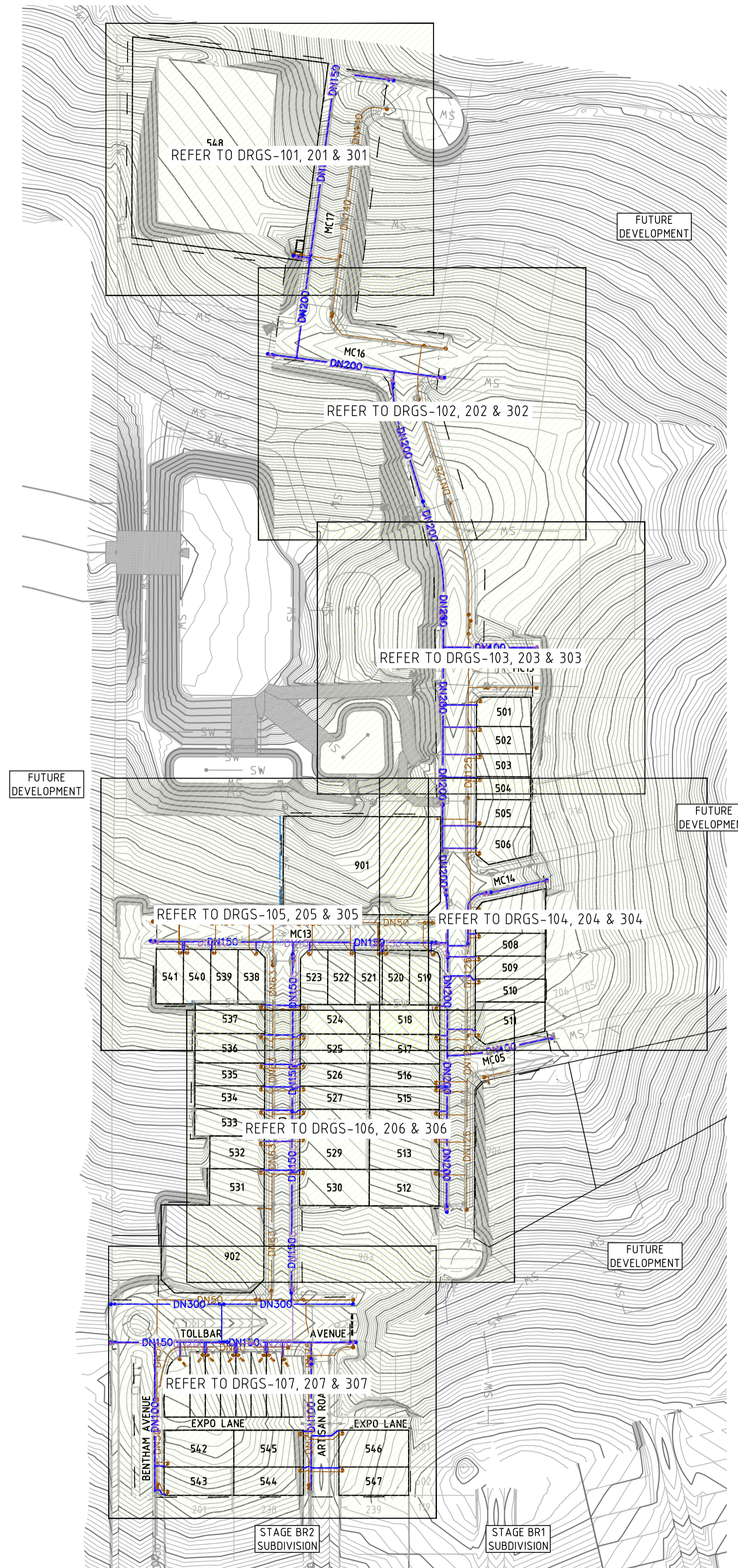
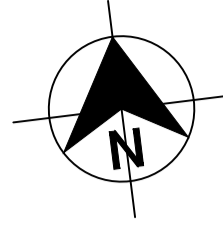
WORK AS CONSTRUCTED stamp containing company name (ADW Johnson Pty Ltd), name (BASS RANDALL), date (12/05/2026), and signature lines for registered surveyor and construction manager.

ORIGIN OF W.A.C. LEVELS stamp providing coordinates (PM 20029, E: 345612.942, N: 6382878.917, RL: 77.675m) and datum information (Co-Ord System: MGA Ground, MGA Datum: GDA94, MGA Zone: 56).



WORK AS CONSTRUCTED

Table with 5 main columns: REV., DATE, AMENDMENT, DRAWN/CHECK/DESIGN/VERIFY, SCALES. Includes a revision history table and a metadata table with project details like 'PROPOSED SUBDIVISION BRIDGING RESIDENTIAL - STAGE BR5 HUNTLEE' and 'PROJECT 240037(BR5) - WAC - 002'.



PLAN  
SCALE 1:1500

**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* DATE 12/05/2026 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  
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**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.	
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	
0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
4	12.05.2026	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  
**PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE BR5  
 HUNTLEE**

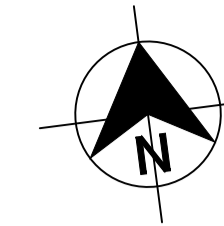
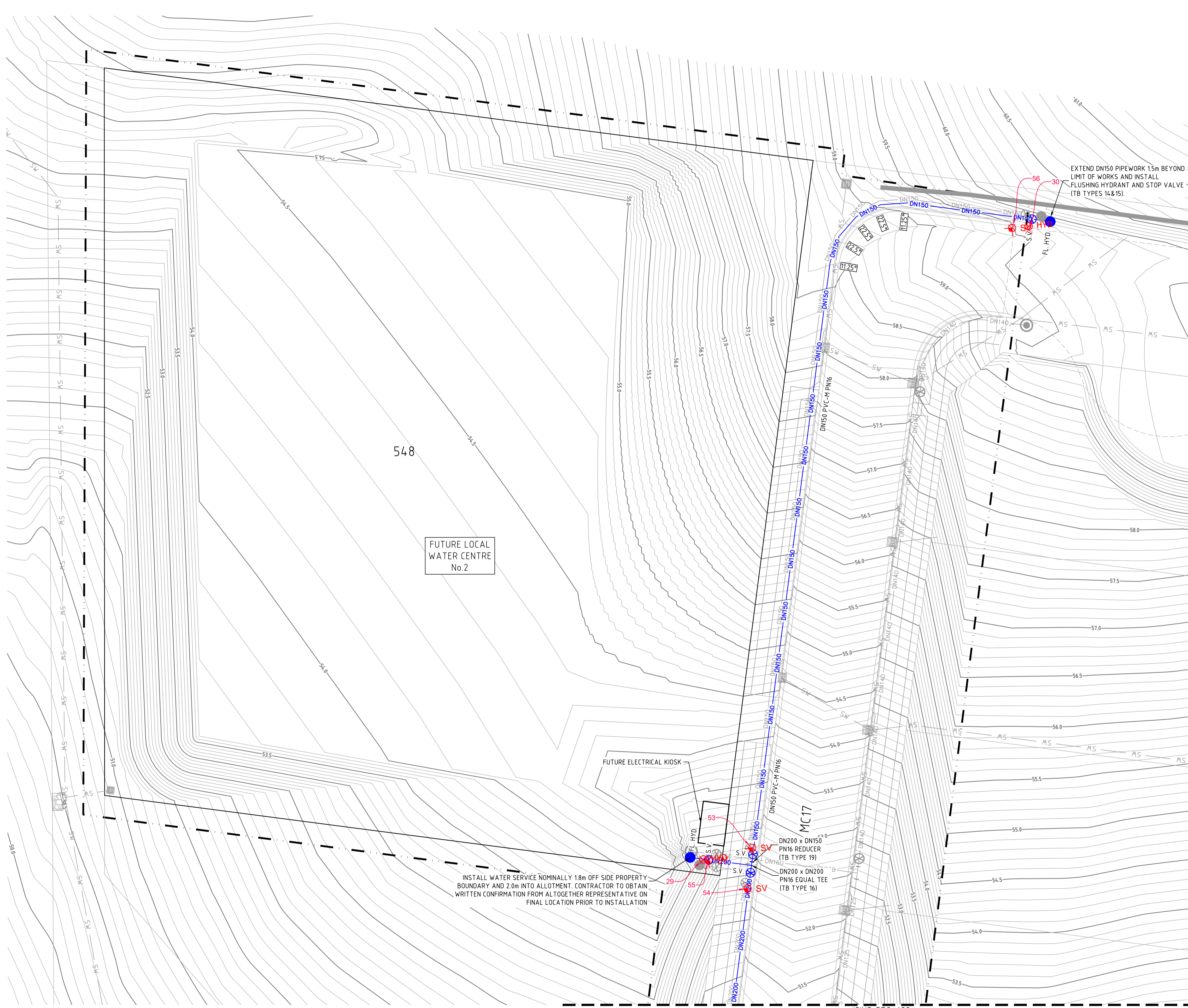
SURVEYED  
 Daly.Smith Pty. Ltd.

DATUM  
 GDA94 MGA56 A.H.D.

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

PLAN TITLE  
**OVERALL SITE PLAN**

PROJECT No. <b>240037(BR5)</b>	DISCIPLINE <b>- WAC -</b>	NUMBER <b>003</b>	REV. <b>4</b>
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- LEGEND**
- PVC-M POTABLE WATER RETICULATION
  - PE POTABLE WATER PROPERTY SERVICE
  - PVC-M RECYCLED WATER RETICULATION
  - PE RECYCLED WATER PROPERTY SERVICE
  - PE PRESSURE SEWER RETICULATION
  - PE PRESSURE SEWER PROPERTY SERVICE
  - STORMWATER PIPEWORK
  - EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
  - EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
  - EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
- 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
  - 11.25° 22.5° 45° 90° HORIZONTAL BEND ANGLE IN MAIN
  - LIMIT OF SUBDIVISION WORKS

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 49 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 17 x SHORT SIDE
    - 8 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 8 x SHORT SIDE
    - 4 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	317
DN150	PVC-M PN16	54.0
DN200	PVC-M PN16	502
DN300	PVC-M PN16	111
DN25 (LATERAL)	PE SDR11	415

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAILING:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
    - FLUSHING PLAN
  - SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR TO PERFORM HOTTAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**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*      DATE 12/05/2026      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
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	 SCALE: 1:250 (FULL)
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.	
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	
0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
4	12.05.2026	<b>WORK AS CONSTRUCTED</b>	T.A.	C.H.	C.H.	C.B.	

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage BR5 Water and Sewer\X-240037(BR5)-WAT-DESIGN.dwg  
 ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

**adw Johnson**

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 Fax: (02) 4978 5199  
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 ABN 62 129 445 398

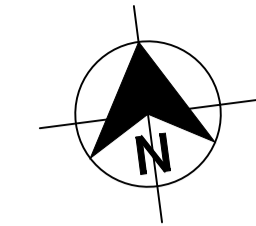
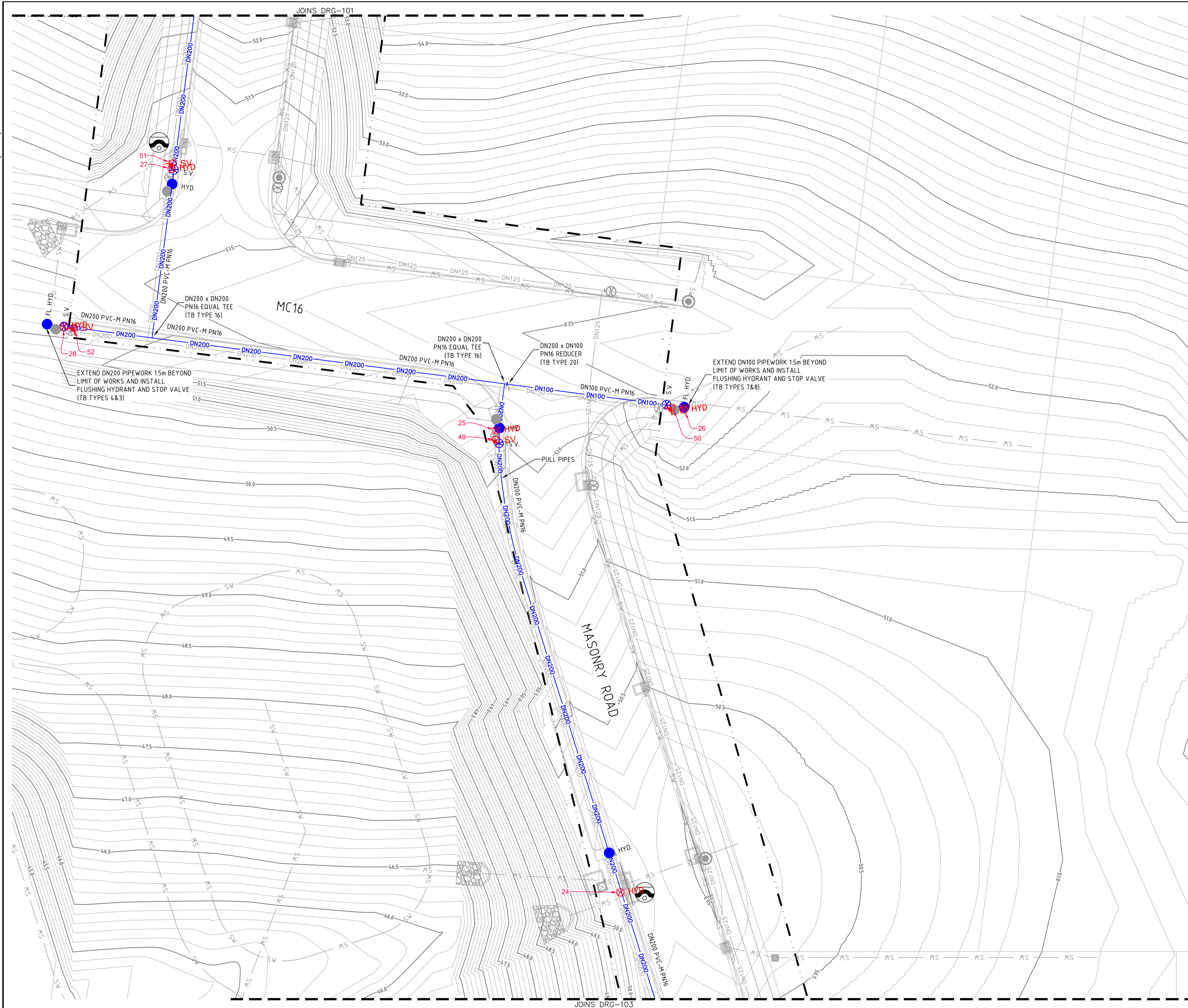
CLIENT

PROPERTY DESCRIPTION

**PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE BR5  
 HUNTLEE**

SURVEYED: Daly.Smith Pty. Ltd.      DATUM: GDA94 MGA56      A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN 1		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(BR5)	- WAC -	101	4



- LEGEND**
- W --- W --- W --- PVC-M POTABLE WATER RETICULATION
  - PWS --- PWS --- PWS --- PE POTABLE WATER PROPERTY SERVICE
  - RW --- RW --- RW --- PVC-M RECYCLED WATER RETICULATION
  - RWS --- RWS --- RWS --- PE RECYCLED WATER PROPERTY SERVICE
  - SP --- SP --- SP --- PE PRESSURE SEWER RETICULATION
  - PS S --- PS S --- PS S --- PE PRESSURE SEWER PROPERTY SERVICE
  - SW --- SW --- SW --- STORMWATER PIPEWORK
  - NBN --- NBN --- EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
  - G --- G --- EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
  - ex E --- ex E --- EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
  - S.V. (Symbol) STOP VALVE
  - S.V. N.C. (Symbol) STOP VALVE NORMALLY CLOSED
  - HYD. (Symbol) HYDRANT
  - FL. HYD. (Symbol) FLUSHING HYDRANT
  - (Symbol) PROPERTY SERVICE CONNECTION
  - (Symbol) LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - (Symbol) HORIZONTAL BEND ANGLE IN MAIN
  - (Symbol) LIMIT OF SUBDIVISION WORKS

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 49 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 17 x SHORT SIDE
    - 8 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 8 x SHORT SIDE
    - 4 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	317
DN150	PVC-M PN16	540
DN200	PVC-M PN16	502
DN300	PVC-M PN16	111
DN25 (LATERAL)	PE SDR11	415

- NOTES:**
1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  4. CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAILING:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
    - FLUSHING PLAN
  5. SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**WORK AS CONSTRUCTED**

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COMPANY ADWJohnson Pty Ltd COMPANY  
 NAME BASS RANDALL NAME  
 SIGNED *Bass Randall* DATE 12/05/2026 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
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.	
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	
0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.	

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage BR5 Water and Sewer\X-240037(BR5)-WAT-DESIGN.dwg  
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**Hunter Office**  
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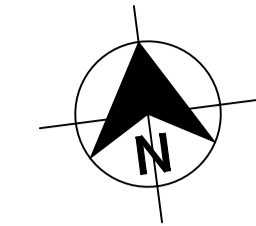
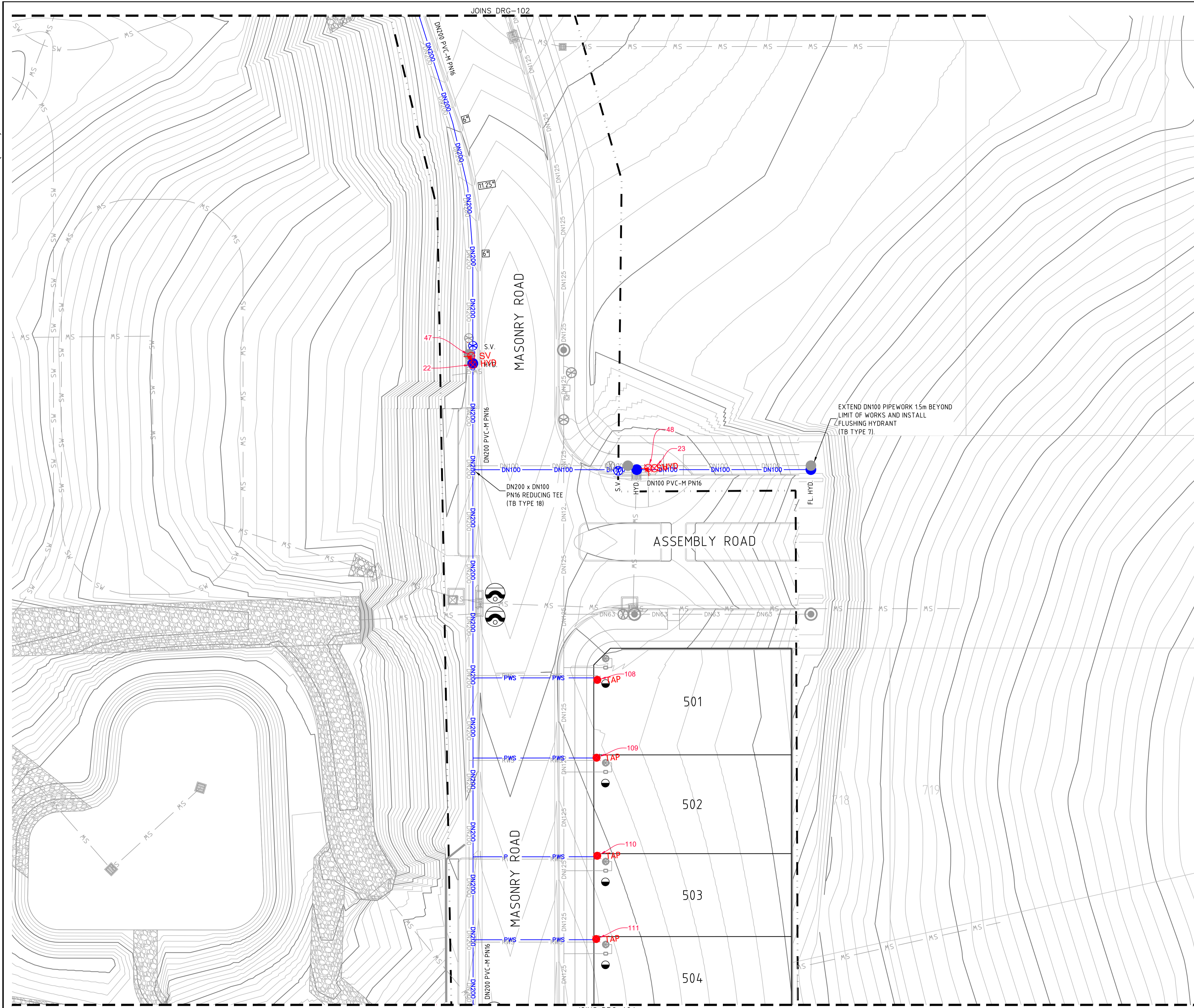
CLIENT

PROPERTY DESCRIPTION

**PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE BR5  
 HUNTLEE**

SURVEYED: Daly.Smith Pty. Ltd. DATUM: GDA94 MGA56 A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN 2		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(BR5)	- WAC -	102	4



**LEGEND**

	PVC-M POTABLE WATER RETICULATION
	PE POTABLE WATER PROPERTY SERVICE
	PVC-M RECYCLED WATER RETICULATION
	PE RECYCLED WATER PROPERTY SERVICE
	PE PRESSURE SEWER RETICULATION
	PE PRESSURE SEWER PROPERTY SERVICE
	STORMWATER PIPEWORK
	EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
	EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
	EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
	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
	HORIZONTAL BEND ANGLE IN MAIN
	LIMIT OF SUBDIVISION WORKS

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 49 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 17 x SHORT SIDE
    - 8 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 8 x SHORT SIDE
    - 4 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	317
DN150	PVC-M PN16	54.0
DN200	PVC-M PN16	502
DN300	PVC-M PN16	111
DN25 (LATERAL)	PE SDR11	4.15

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE.
- PROVIDE SHUTDOWN PLAN DETAILING:
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**WORK AS CONSTRUCTED**

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	BASS RANDALL	NAME	
SIGNED	<i>B. Bass</i>	SIGNED	
	REGISTERED SURVEYOR	DATE	12/05/2026
		DATE	____/____/____
		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		



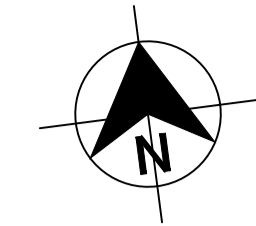
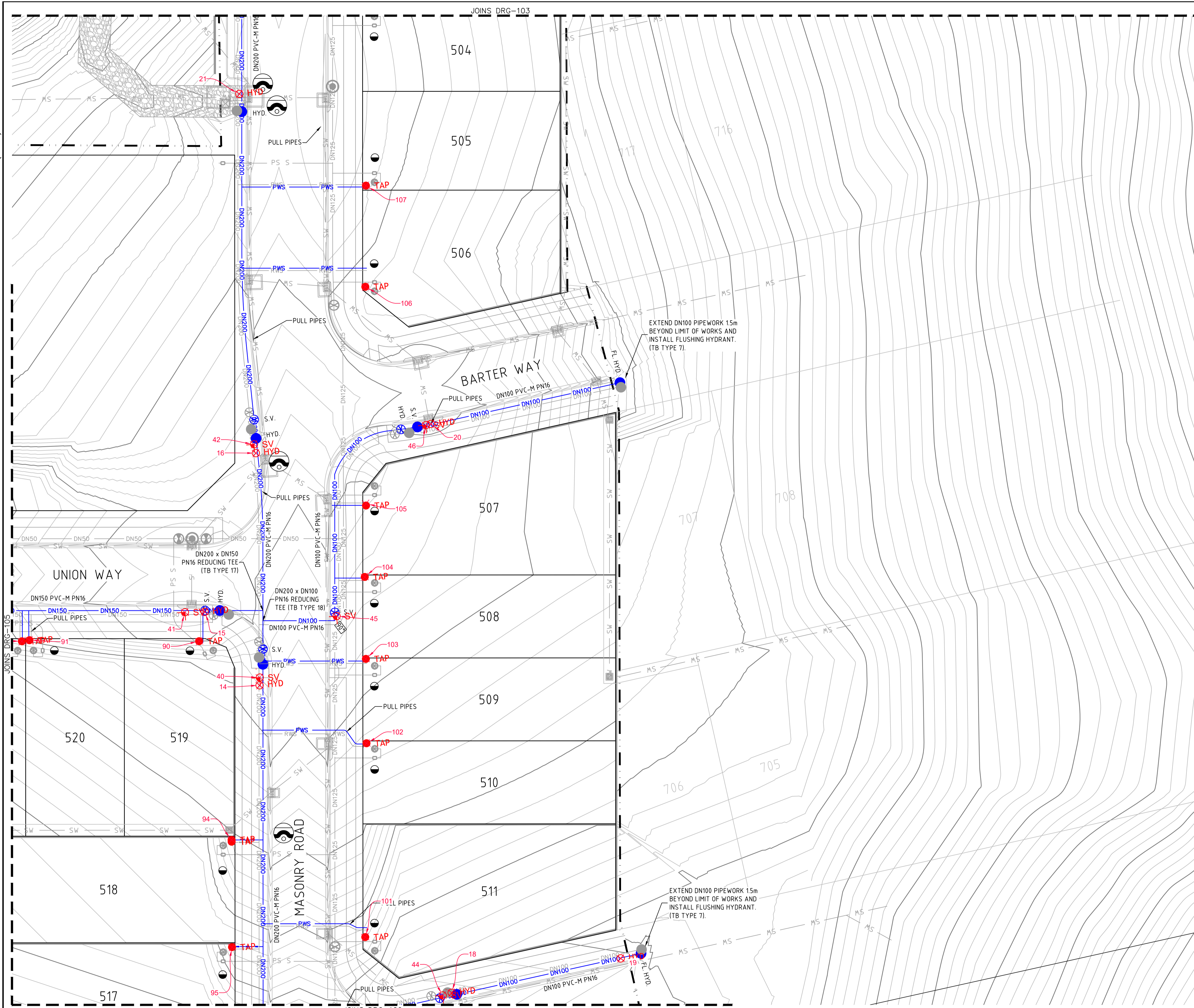
**WORK AS CONSTRUCTED**

<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> <th>SCALES</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>09.05.2025</td> <td>INITIAL ISSUE</td> <td>I.B.</td> <td>C.H.</td> <td>C.H.</td> <td>C.B.</td> <td rowspan="2">                       SCALE: 1:250 (FULL)                 </td> </tr> <tr> <td>C</td> <td>12.05.2025</td> <td>INITIAL ISSUE</td> <td>T.A.</td> <td>C.H.</td> <td>C.H.</td> <td>C.B.</td> </tr> <tr> <td>D</td> <td>26.06.2025</td> <td>AMENDED INITIAL ISSUE</td> <td>I.B.</td> <td>C.H.</td> <td>C.H.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>0</td> <td>25.07.2025</td> <td>CONSTRUCTION ISSUE</td> <td>I.B.</td> <td>C.H.</td> <td>C.H.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>1</td> <td>10.09.2025</td> <td>AMENDED CONSTRUCTION ISSUE</td> <td>I.B.</td> <td>C.H.</td> <td>C.H.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>2</td> <td>22.09.2025</td> <td>AMENDED CONSTRUCTION ISSUE</td> <td>I.B.</td> <td>C.H.</td> <td>C.H.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>3</td> <td>25.09.2025</td> <td>AMENDED CONSTRUCTION ISSUE</td> <td>I.B.</td> <td>C.H.</td> <td>C.H.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>4</td> <td>12.05.2026</td> <td>WORK AS CONSTRUCTED</td> <td>T.A.</td> <td>C.H.</td> <td>C.H.</td> <td>C.B.</td> <td></td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	 SCALE: 1:250 (FULL)	C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.	D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.		0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.		1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.		2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.		3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.		4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.		 Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	 CLIENT	PROPERTY DESCRIPTION PROPOSED SUBDIVISION BRIDGING RESIDENTIAL - STAGE BR5 HUNTLEE	SURVEYED Daly.Smith Pty. Ltd.	DATUM GDA94 MGA56 A.H.D.	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	PLAN TITLE POTABLE WATER DETAIL PLAN 3
	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES																																																																						
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	 SCALE: 1:250 (FULL)																																																																							
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DESIGN FILE N:\240037\DWG\Water & Sewer\Stage BR5 Water and Sewer\X-240037(BR5)-WAT-DESIGN.dwg Plotted By: tima Plot Date: 02/06/26 - 08:53 Cad File: \\adw-svr4\adw-data\240072\DWG\Water & Sewer\Stage BR5-WAC\240037(BR5)-WAC-107.dwg	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	PROJECT No. 240037(BR5)	DISCIPLINE - WAC -	NUMBER 103	REV. 4																																																																									

240037(BR5)-WAC-107

JOINS DRG-105

100mm AT FULL SIZE



- LEGEND**
- PVC-M POTABLE WATER RETICULATION
  - PE POTABLE WATER PROPERTY SERVICE
  - PVC-M RECYCLED WATER RETICULATION
  - PE RECYCLED WATER PROPERTY SERVICE
  - PE PRESSURE SEWER RETICULATION
  - PE PRESSURE SEWER PROPERTY SERVICE
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  - EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
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- 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
  - 11 25° 22 5° 45° 90° HORIZONTAL BEND ANGLE IN MAIN
  - LIMIT OF SUBDIVISION WORKS

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 49 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 17 x SHORT SIDE
    - 8 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 8 x SHORT SIDE
    - 4 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
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DN150	PVC-M PN16	540
DN200	PVC-M PN16	502
DN300	PVC-M PN16	111
DN25 (LATERAL)	PE SDR11	415

- NOTES:**
- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
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    - PROVIDE SHUTDOWN PLAN DETAILING:
      - DURATION OF REQUIRED SHUTDOWN
      - ISOLATION VALVES TO BE CLOSED
      - FLUSHING PLAN
    - SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**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*      DATE 12/05/2026      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
B	09.05.2025	INITIAL ISSUE
C	12.05.2025	INITIAL ISSUE
D	26.06.2025	AMENDED INITIAL ISSUE
0	25.07.2025	CONSTRUCTION ISSUE
1	10.09.2025	AMENDED CONSTRUCTION ISSUE
2	22.09.2025	AMENDED CONSTRUCTION ISSUE
3	25.09.2025	AMENDED CONSTRUCTION ISSUE
4	12.05.2026	WORK AS CONSTRUCTED

DRAWN	CHECK	DESIGN	VERIFY	SCALES
I.B.	C.H.	C.H.	C.B.	0 5.0 10.0 12.5m
T.A.	C.H.	C.H.	C.B.	SCALE: 1:250 (FULL)
I.B.	C.H.	C.H.	C.B.	
I.B.	C.H.	C.H.	C.B.	
I.B.	C.H.	C.H.	C.B.	
I.B.	C.H.	C.H.	C.B.	
T.A.	C.H.	C.H.	C.B.	

**adw Johnson**

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

CLIENT

PROPERTY DESCRIPTION

**PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE BR5  
 HUNTLEE**

SURVEYED: Daly.Smith Pty. Ltd.      DATUM: GDA94 MGA56 A.H.D.

PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	POTABLE WATER DETAIL PLAN 4	240037(BR5)	- WAC -	104	4

**LEGEND**

	PVC-M POTABLE WATER RETICULATION
	PE POTABLE WATER PROPERTY SERVICE
	PVC-M RECYCLED WATER RETICULATION
	PE RECYCLED WATER PROPERTY SERVICE
	PE PRESSURE SEWER RETICULATION
	PE PRESSURE SEWER PROPERTY SERVICE
	STORMWATER PIPEWORK
	EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
	EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
	EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
	STOP VALVE
	STOP VALVE NORMALLY CLOSED
	HYDRANT
	FLUSHING HYDRANT
	PROPERTY SERVICE CONNECTION
	LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
	HORIZONTAL BEND ANGLE IN MAIN
	LIMIT OF SUBDIVISION WORKS

**POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 49 CONNECTIONS  
 • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V  
 -17 x SHORT SIDE  
 -8 x LONG SIDE  
 • SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V  
 -8 x SHORT SIDE  
 -4 x LONG SIDE

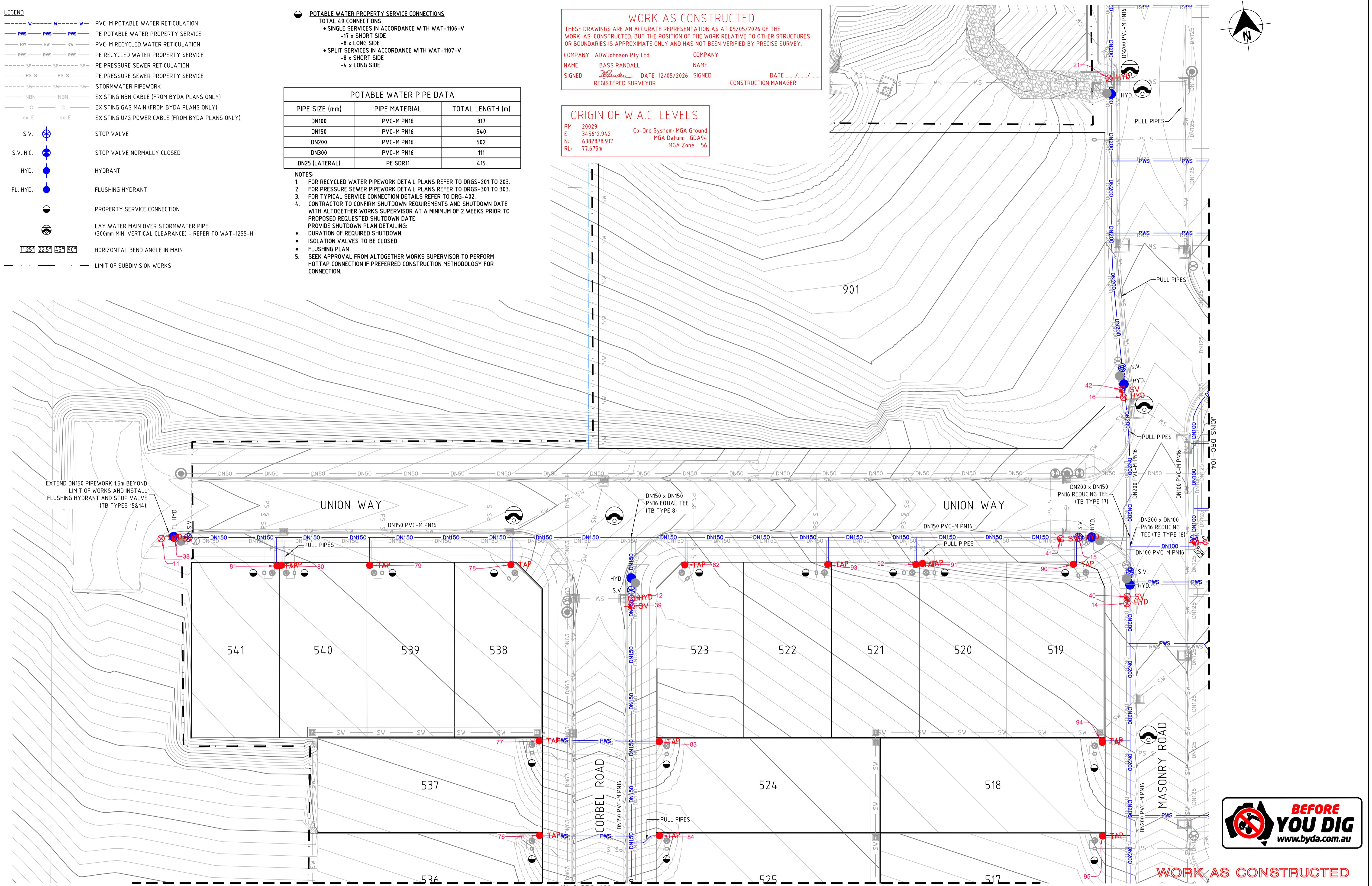
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	317
DN150	PVC-M PN16	540
DN200	PVC-M PN16	502
DN300	PVC-M PN16	111
DN25 (LATERAL)	PE SDR11	415

**NOTES:**

- FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
- FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
- FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
- CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAILING:  
 • DURATION OF REQUIRED SHUTDOWN  
 • ISOLATION VALVES TO BE CLOSED  
 • FLUSHING PLAN  
 5. SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**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  
 NAME: BASS RANDALL  
 SIGNED: [Signature] DATE: 12/05/2026 REGISTERED SURVEYOR  
 COMPANY: [Blank]  
 NAME: [Blank]  
 SIGNED: [Blank] DATE: [Blank] 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



100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.
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2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.
4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.

SCALES
0 5.0 10.0 12.5m
SCALE: 1:250 (FULL)

**adw Johnson**  
 Hunter Office  
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 Fax: (02) 4978 5199  
 email: hunter@adwjohanson.com.au  
 www.adwjohanson.com.au  
 ABN 62 129 445 398

**CLIENT**

**PROPERTY DESCRIPTION**  
 PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE BR5  
 HUNTLEE

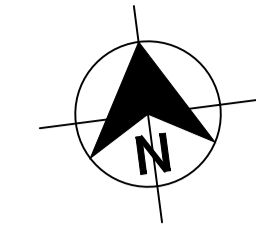
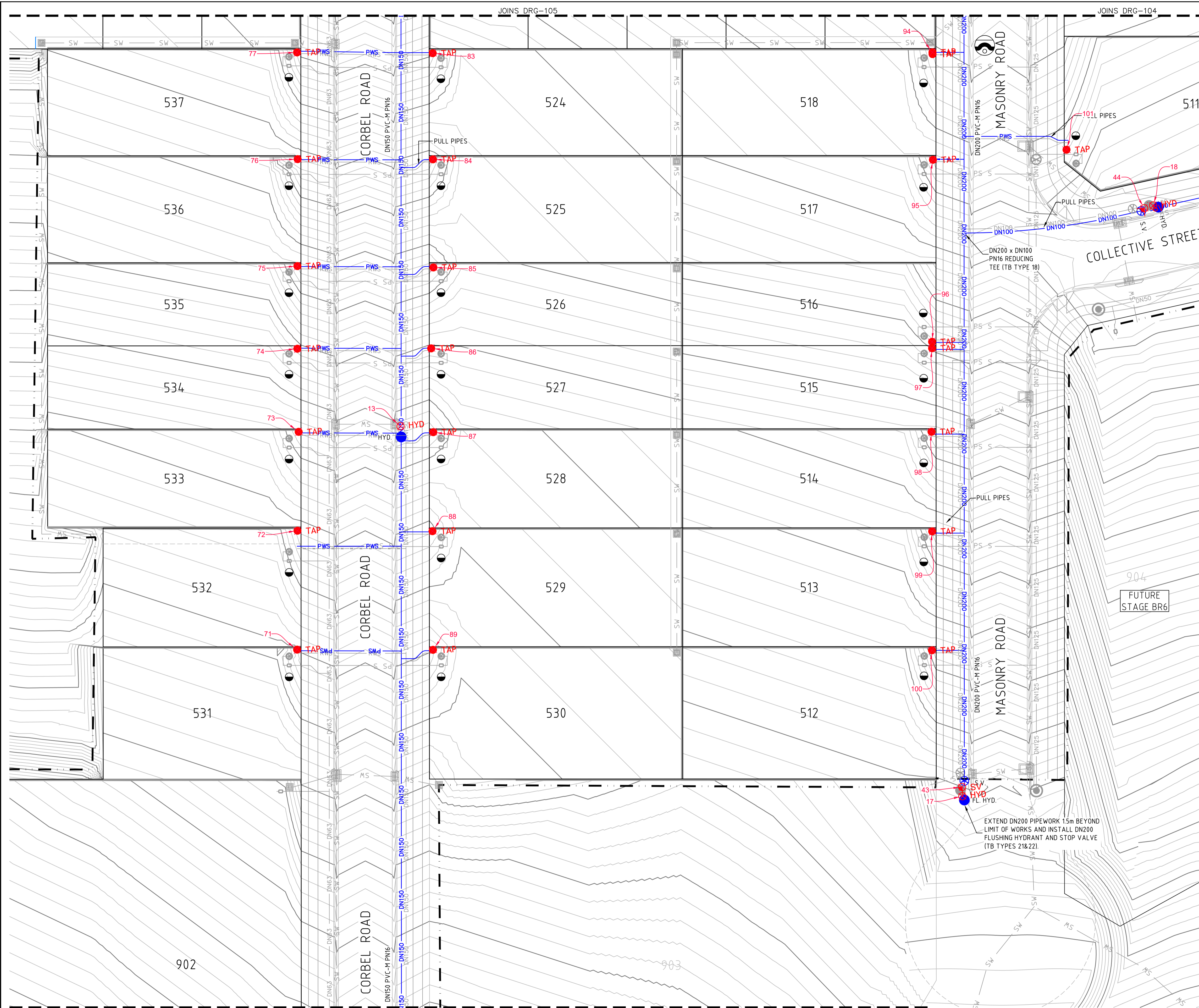
PROJECT	PLAN TITLE
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	POTABLE WATER DETAIL PLAN 5
PROJECT No. 240037(BR5)	DISCIPLINE - WAC - 105
NUMBER	REV.
4	4



**WORK AS CONSTRUCTED**

240037(BR5)-WAC-107

100mm AT FULL SIZE



- LEGEND**
- PVC-M POTABLE WATER RETICULATION
  - PE POTABLE WATER PROPERTY SERVICE
  - PVC-M RECYCLED WATER RETICULATION
  - PE RECYCLED WATER PROPERTY SERVICE
  - PE PRESSURE SEWER RETICULATION
  - PE PRESSURE SEWER PROPERTY SERVICE
  - STORMWATER PIPEWORK
  - EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
  - EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
  - EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
  - 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
  - HORIZONTAL BEND ANGLE IN MAIN
  - LIMIT OF SUBDIVISION WORKS

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 49 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 17 x SHORT SIDE
    - 8 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 8 x SHORT SIDE
    - 4 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	317
DN150	PVC-M PN16	540
DN200	PVC-M PN16	502
DN300	PVC-M PN16	111
DN25 (LATERAL)	PE SDR11	415

- NOTES:**
1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  4. CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE.  
 PROVIDE SHUTDOWN PLAN DETAILING:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
    - FLUSHING PLAN
  5. SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**WORK AS CONSTRUCTED**

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COMPANY ADW Johnson Pty Ltd      COMPANY  
 NAME BASS RANDALL      NAME  
 SIGNED *Bass Randall*      DATE 12/05/2026      SIGNED \_\_\_\_\_      DATE \_\_\_\_/\_\_\_\_/\_\_\_\_  
 REGISTERED SURVEYOR      CONSTRUCTION MANAGER

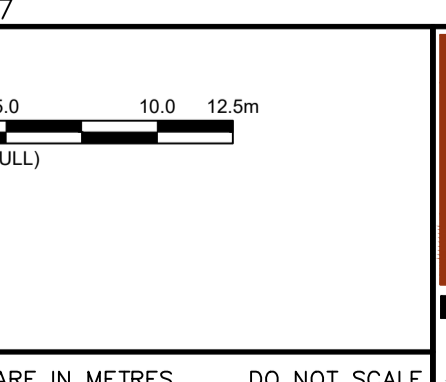
**ORIGIN OF W.A.C. LEVELS**

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
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.
0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.
1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.
4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.



**adw Johnson**

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

CLIENT

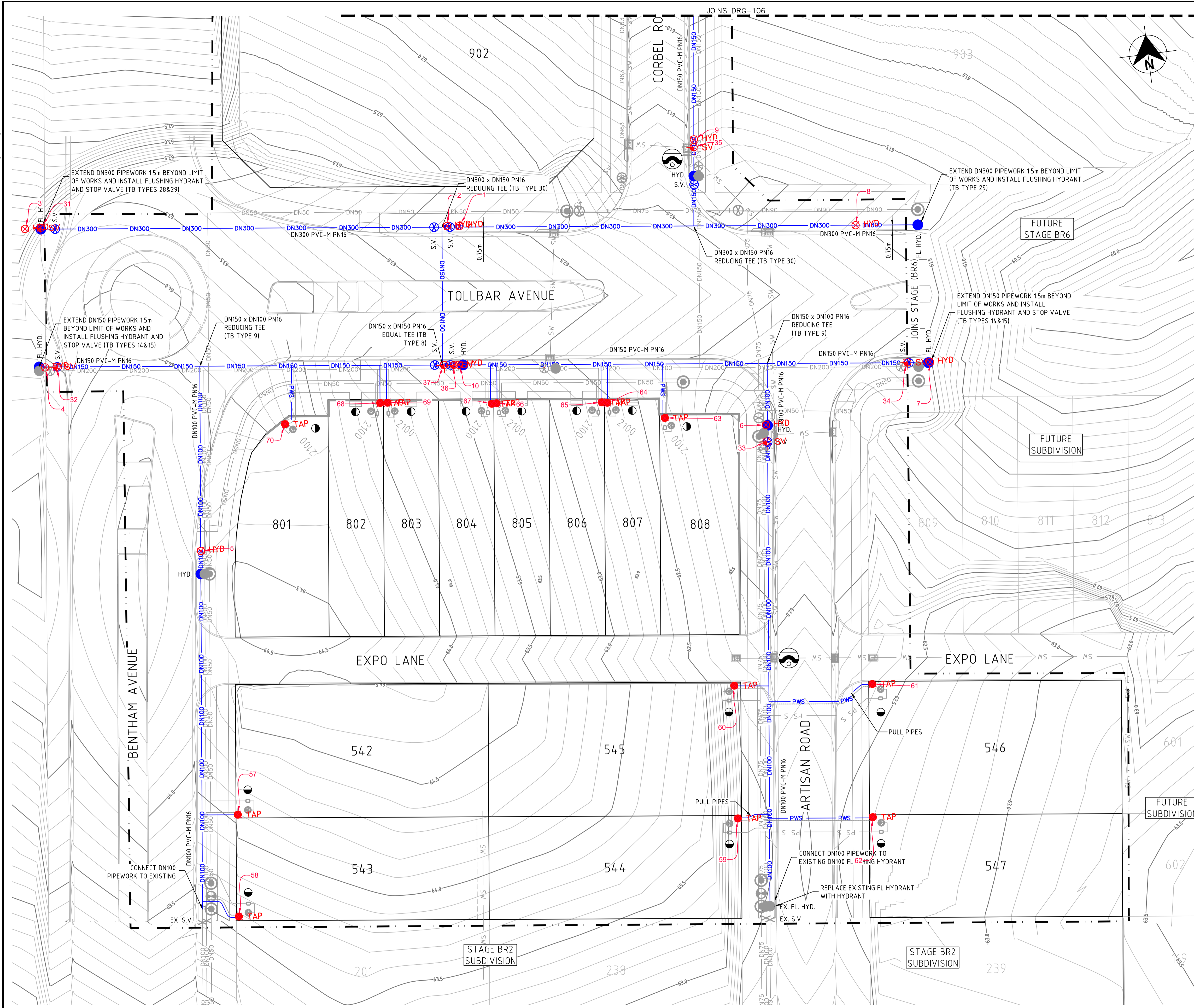
PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE BR5  
 HUNTLEE

SURVEYED  
 Daly.Smith Pty. Ltd.

DATUM  
 GDA94 MGA56 A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN 6		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(BR5)	- WAC -	106	4



**LEGEND**

- W --- W --- W --- PVC-M POTABLE WATER RETICULATION
- PWS --- PWS --- PWS --- PE POTABLE WATER PROPERTY SERVICE
- RW --- RW --- RW --- PVC-M RECYCLED WATER RETICULATION
- RWS --- RWS --- RWS --- PE RECYCLED WATER PROPERTY SERVICE
- SP --- SP --- SP --- PE PRESSURE SEWER RETICULATION
- PS S --- PS S --- PS S --- PE PRESSURE SEWER PROPERTY SERVICE
- SW --- SW --- SW --- STORMWATER PIPEWORK
- NBN --- NBN --- NBN --- EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
- G --- G --- G --- EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
- ex E --- ex E --- ex E --- EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)

S.V. [Symbol] STOP VALVE

S.V. N.C. [Symbol] STOP VALVE NORMALLY CLOSED

HYD. [Symbol] HYDRANT

FL. HYD. [Symbol] FLUSHING HYDRANT

[Symbol] PROPERTY SERVICE CONNECTION

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

[Symbol] HORIZONTAL BEND ANGLE IN MAIN

--- --- LIMIT OF SUBDIVISION WORKS

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
TOTAL 49 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 17 x SHORT SIDE
    - 8 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 8 x SHORT SIDE
    - 4 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	317
DN150	PVC-M PN16	540
DN200	PVC-M PN16	502
DN300	PVC-M PN16	111
DN25 (LATERAL)	PE SDR11	415

- NOTES:**
1. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  2. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  3. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  4. CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAILING:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
    - FLUSHING PLAN
  5. SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR TO PERFORM HOTTAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**WORK AS CONSTRUCTED**

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COMPANY ADW Johnson Pty Ltd      COMPANY  
 NAME BASS RANDALL      NAME  
 SIGNED [Signature]      DATE 12/05/2026      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



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.
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4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage BR5 Water and Sewer\X-240037(BR5)-WAT-DESIGN.dwg

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

**adw Johnson**

Hunter Office  
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 Fax: (02) 4978 5199  
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 www.adwjohnson.com.au  
 ABN 62 129 445 398

**CLIENT**

**altogether.**

**PROPERTY DESCRIPTION**

PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE BR5  
 HUNTLEE

**SURVEYED**  
 Daly.Smith Pty. Ltd.

**DATUM**  
 GDA94 MGA56 A.H.D.

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

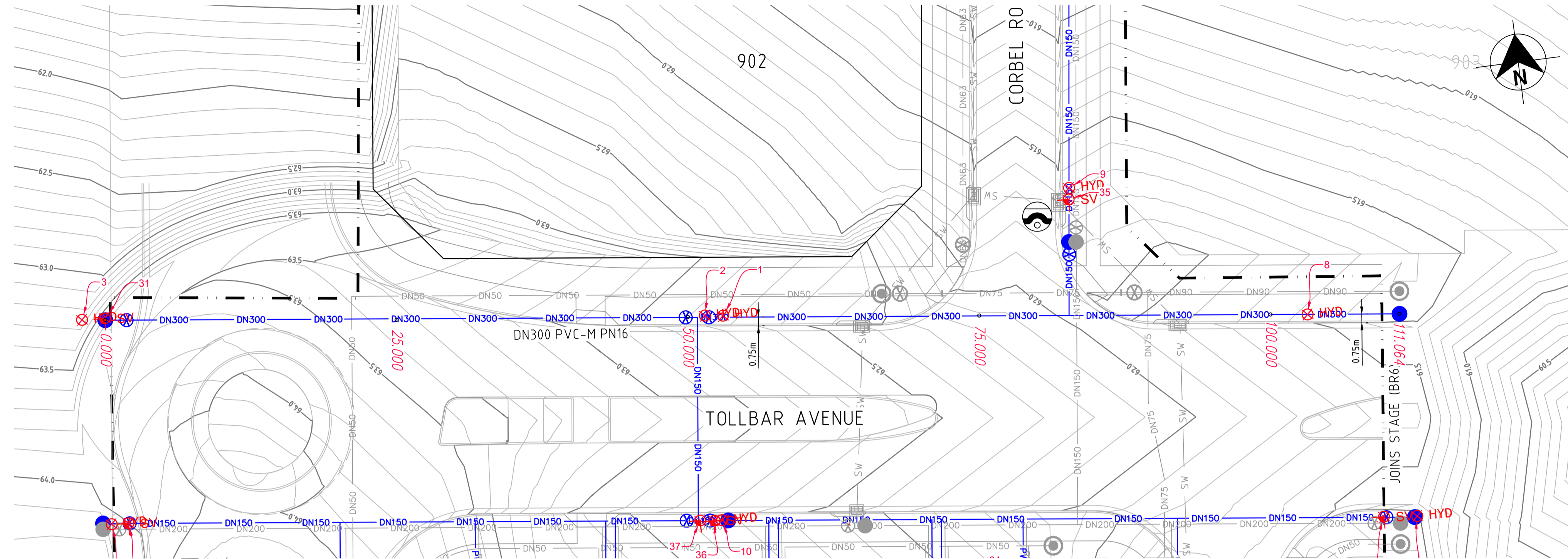
**PLAN TITLE**  
 POTABLE WATER DETAIL PLAN 7

**PROJECT No.**  
 240037(BR5)

**DISCIPLINE**  
 - WAC -

**NUMBER**  
 107

**REV.**  
 4



TENURE	PIPE SIZE	GRADE	HORIZONTAL GEOMETRY	VERTICAL GEOMETRY
	DN300 PVC-M PN16	-0.5% / -2.3% / -1%	R180m	
DATUM R.L. 42				
DEPTH TO INVERT				1.484
INVERT LEVEL				62.044
EXISTING SURFACE				
CHAINAGE				0.000

LONGITUDINAL SECTION - BR5 DN300 WATERMAIN

HORIZONTAL SCALE 1:250  
VERTICAL SCALE 1:200

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COMPANY ADW Johnson Pty Ltd COMPANY  
 NAME BASS RANDALL NAME  
 SIGNED *Bass* DATE 12/05/2026 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**

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4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.	

**adw Johnson**  
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 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION  
 PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE BR5  
 HUNTLEE

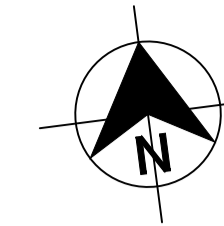
SURVEYED  
 Daly.Smith Pty. Ltd.

DATUM  
 GDA94 MGA56 A.H.D.

PROJECT  
 POTABLE WATER, RECYCLED WATER AND  
 PRESSURE SEWER RETICULATION

PLAN TITLE  
 POTABLE WATER TRUNK MAIN  
 DETAIL PLAN AND SECTION

PROJECT No. 240037(BR5) DISCIPLINE - WAC - NUMBER 108 REV. 4



- LEGEND**
- PVC-M RECYCLED WATER RETICULATION
  - PE RECYCLED WATER PROPERTY SERVICE
  - PVC-M POTABLE WATER RETICULATION
  - PE POTABLE WATER PROPERTY SERVICE
  - PE PRESSURE SEWER RETICULATION
  - PE PRESSURE SEWER PROPERTY SERVICE
  - STORMWATER PIPEWORK
  - EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
  - EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
  - EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
  - 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-V
  - $11.25^\circ$   $22.5^\circ$   $45^\circ$   $90^\circ$  HORIZONTAL BEND ANGLE IN MAIN
  - LIMIT OF SUBDIVISION WORKS

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 49 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 17 x SHORT SIDE
    - 8 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 8 x SHORT SIDE
    - 4 x LONG SIDE

RECYCLED WATER PIPE DATA		
DN100	PVC-M PN16	294
DN150	PVC-M PN16	448
DN200	PVC-M PN16	608
DN32 (LATERAL)	PE PN16	394

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH AL TOGETHER WORKS SUPERVISOR AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAILING:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
    - FLUSHING PLAN
    - SEEK APPROVAL FROM AL TOGETHER WORKS SUPERVISOR TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**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.

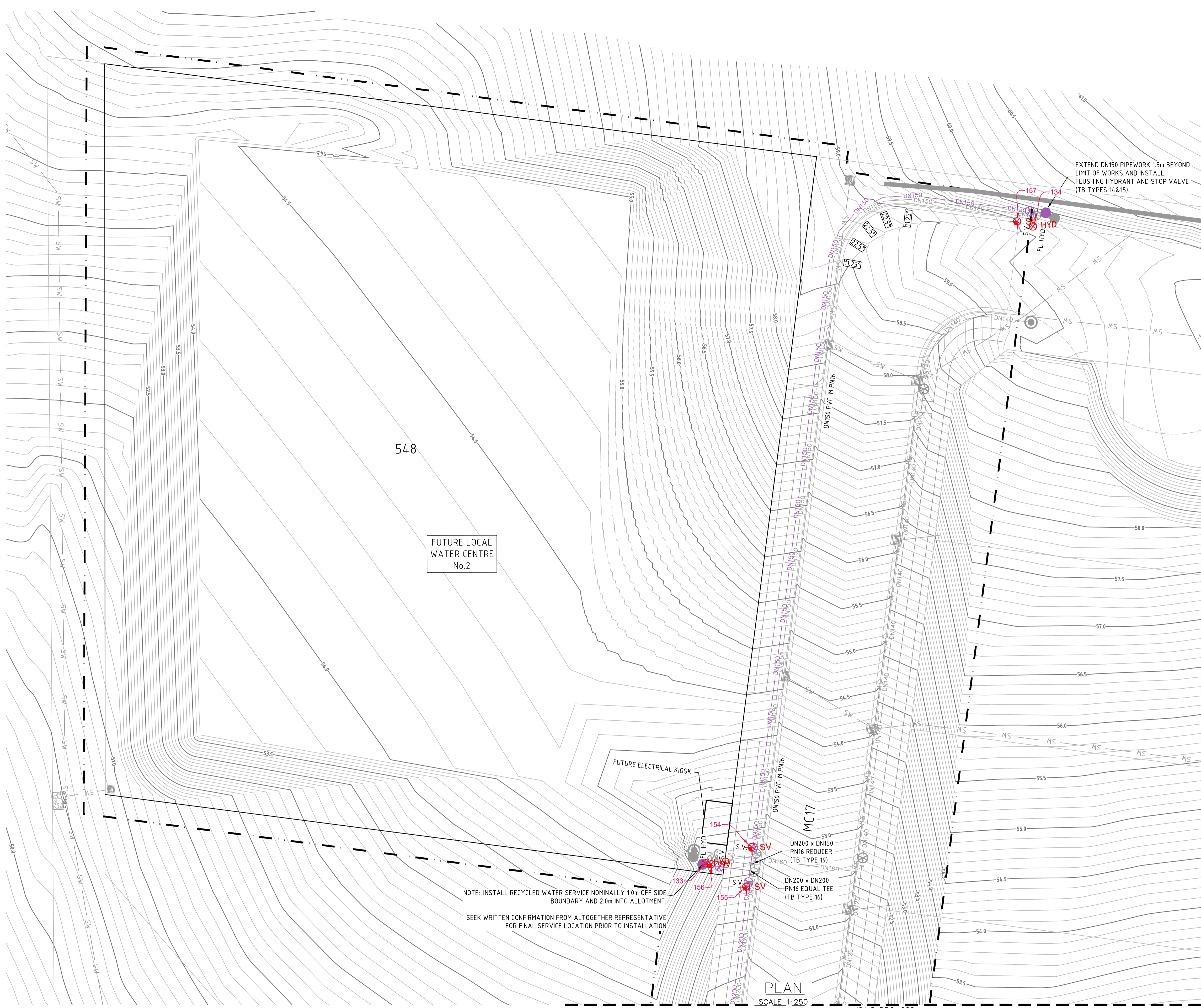
COMPANY ADW Johnson Pty Ltd COMPANY  
 NAME BASS RANDALL NAME  
 SIGNED *Bass Randall* DATE 12/05/2026 SIGNED \_\_\_\_\_ DATE \_\_\_\_/\_\_\_\_/\_\_\_\_  
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

**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
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.	
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	
0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.	

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage BR5 Water and Sewer\X-240037(BR5)-WAT-DESIGN.dwg  
 ALL DIMENSIONS ARE IN METRES. 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

**altogether.**

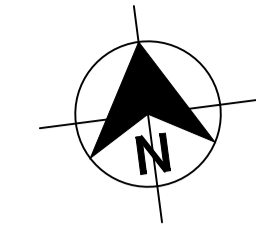
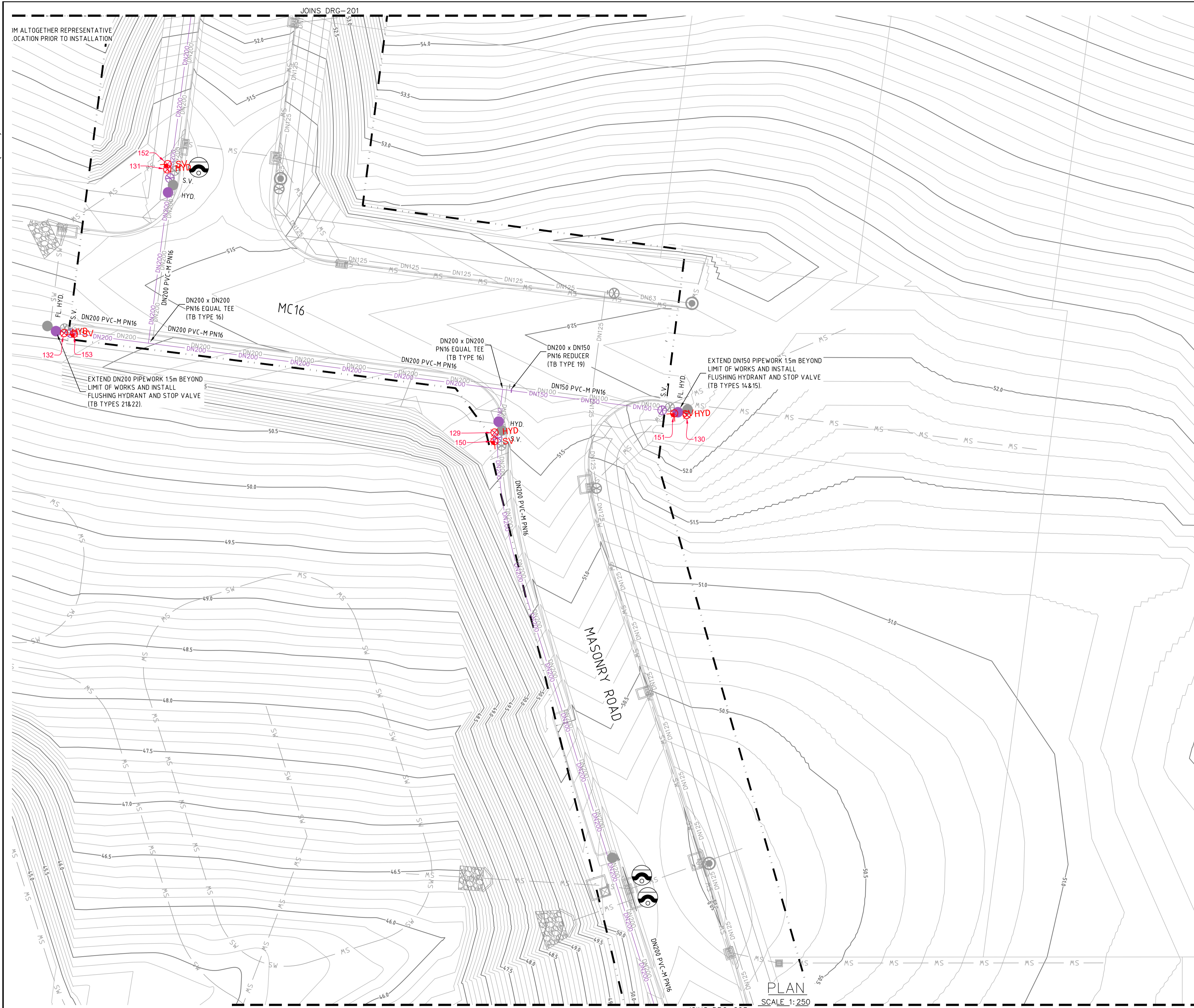
PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE BR5  
 HUNTLEE

SURVEYED  
 Daly.Smith Pty. Ltd.

DATUM  
 GDA94 MGA56 A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN 1		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(BR5)	- WAC -	201	4



**LEGEND**

— RW — RW — RW — RW	PVC-M RECYCLED WATER RETICULATION
— RWS — RWS — RWS — RWS	PE RECYCLED WATER PROPERTY SERVICE
— W — W — W — W	PVC-M POTABLE WATER RETICULATION
— PWS — PWS — PWS — PWS	PE POTABLE WATER PROPERTY SERVICE
— SP — SP — SP — SP	PE PRESSURE SEWER RETICULATION
— PS S — PS S — PS S — PS S	PE PRESSURE SEWER PROPERTY SERVICE
— SW — SW — SW — SW	STORMWATER PIPEWORK
— NBN — NBN	EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
— G — G	EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
— ex E — ex E	EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
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-V
11.25° 22.5° 45° 90°	HORIZONTAL BEND ANGLE IN MAIN
---	LIMIT OF SUBDIVISION WORKS

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 49 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 17 x SHORT SIDE
    - 8 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 8 x SHORT SIDE
    - 4 x LONG SIDE

**RECYCLED WATER PIPE DATA**

DN	Material	Length (m)
DN100	PVC-M PN16	294
DN150	PVC-M PN16	448
DN200	PVC-M PN16	608
DN32 (LATERAL)	PE PN16	394

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE.
- PROVIDE SHUTDOWN PLAN DETAILING:
- DURATION OF REQUIRED SHUTDOWN
  - ISOLATION VALVES TO BE CLOSED
  - FLUSHING PLAN
5. SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**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 12/05/2026 SIGNED [Signature] DATE  
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

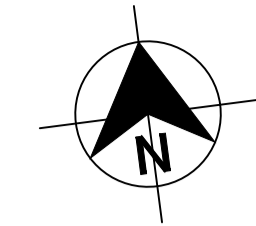
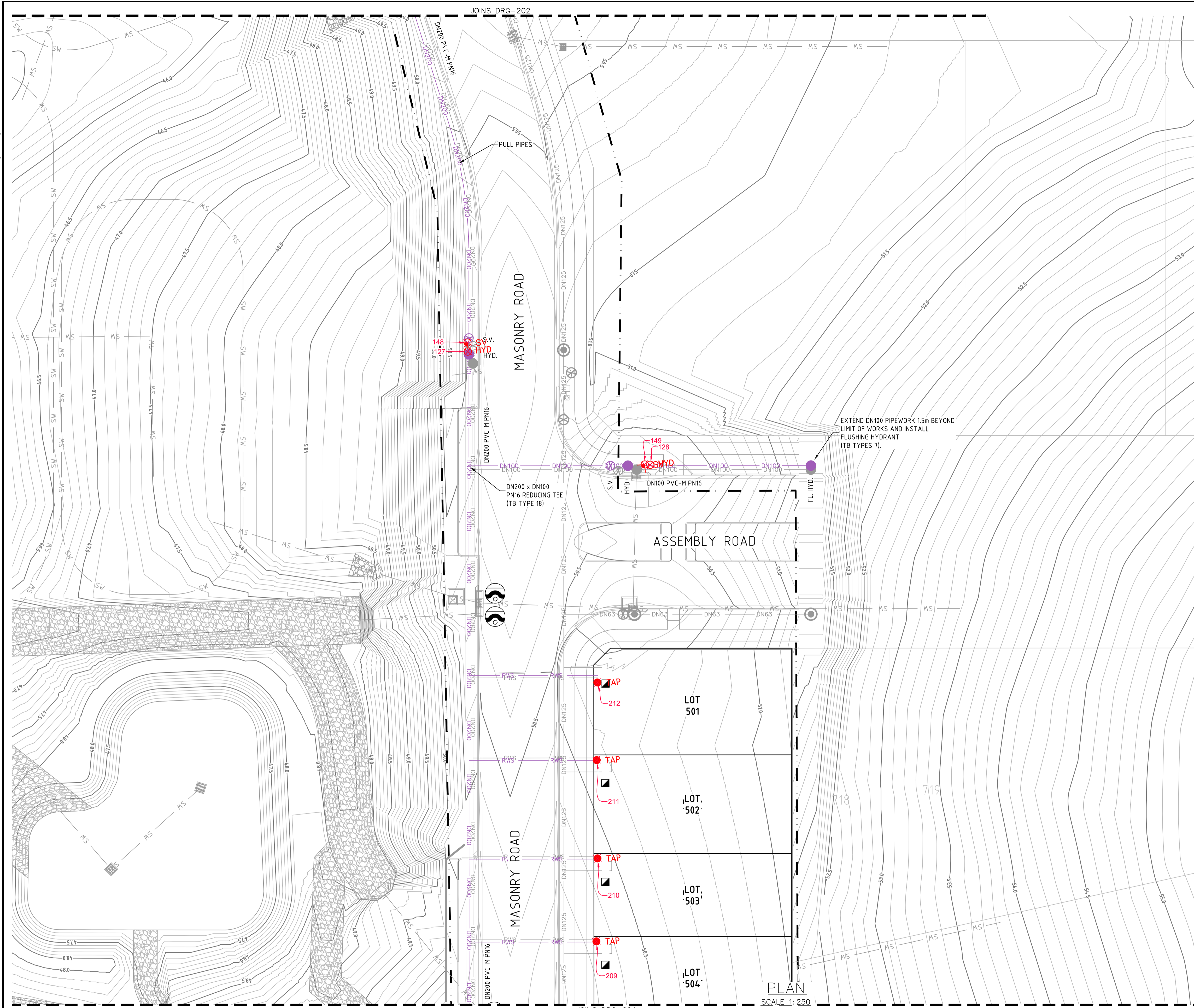
**ORIGIN OF W.A.C. LEVELS**

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



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	0 6.0 10.0 12.5m SCALE: 1:250 (FULL)	<b>adw Johnson</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	PROPOSED SUBDIVISION BRIDGING RESIDENTIAL - STAGE BR5 HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	240037(BR5)	- WAC -	202	4	
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.									
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.									
0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.									
1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.									
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.									
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.									
4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.									



- LEGEND**
- PVC-M RECYCLED WATER RETICULATION
  - PE RECYCLED WATER PROPERTY SERVICE
  - PVC-M POTABLE WATER RETICULATION
  - PE POTABLE WATER PROPERTY SERVICE
  - PE PRESSURE SEWER RETICULATION
  - PE PRESSURE SEWER PROPERTY SERVICE
  - STORMWATER PIPEWORK
  - EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
  - EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
  - EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
  - 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
  - 11.25° 22.5° 45° 90° HORIZONTAL BEND ANGLE IN MAIN
  - LIMIT OF SUBDIVISION WORKS

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 49 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 17 x SHORT SIDE
    - 8 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 8 x SHORT SIDE
    - 4 x LONG SIDE

RECYCLED WATER PIPE DATA		
DN100	PVC-M PN16	294
DN150	PVC-M PN16	448
DN200	PVC-M PN16	608
DN32 (LATERAL)	PE PN16	394

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE.
- PROVIDE SHUTDOWN PLAN DETAILING:
- DURATION OF REQUIRED SHUTDOWN
  - ISOLATION VALVES TO BE CLOSED
  - FLUSHING PLAN
5. SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**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  
 SIGNED *Bass Randall* DATE 12/05/2026 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
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.	
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	
0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
4	12.05.2026	<b>WORK AS CONSTRUCTED</b>	T.A.	C.H.	C.H.	C.B.	

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage BR5 Water and Sewer\X-240037(BR5)-WAT-DESIGN.dwg  
 ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

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

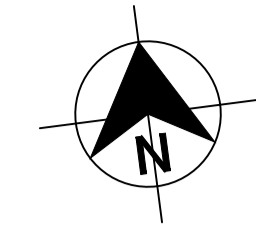
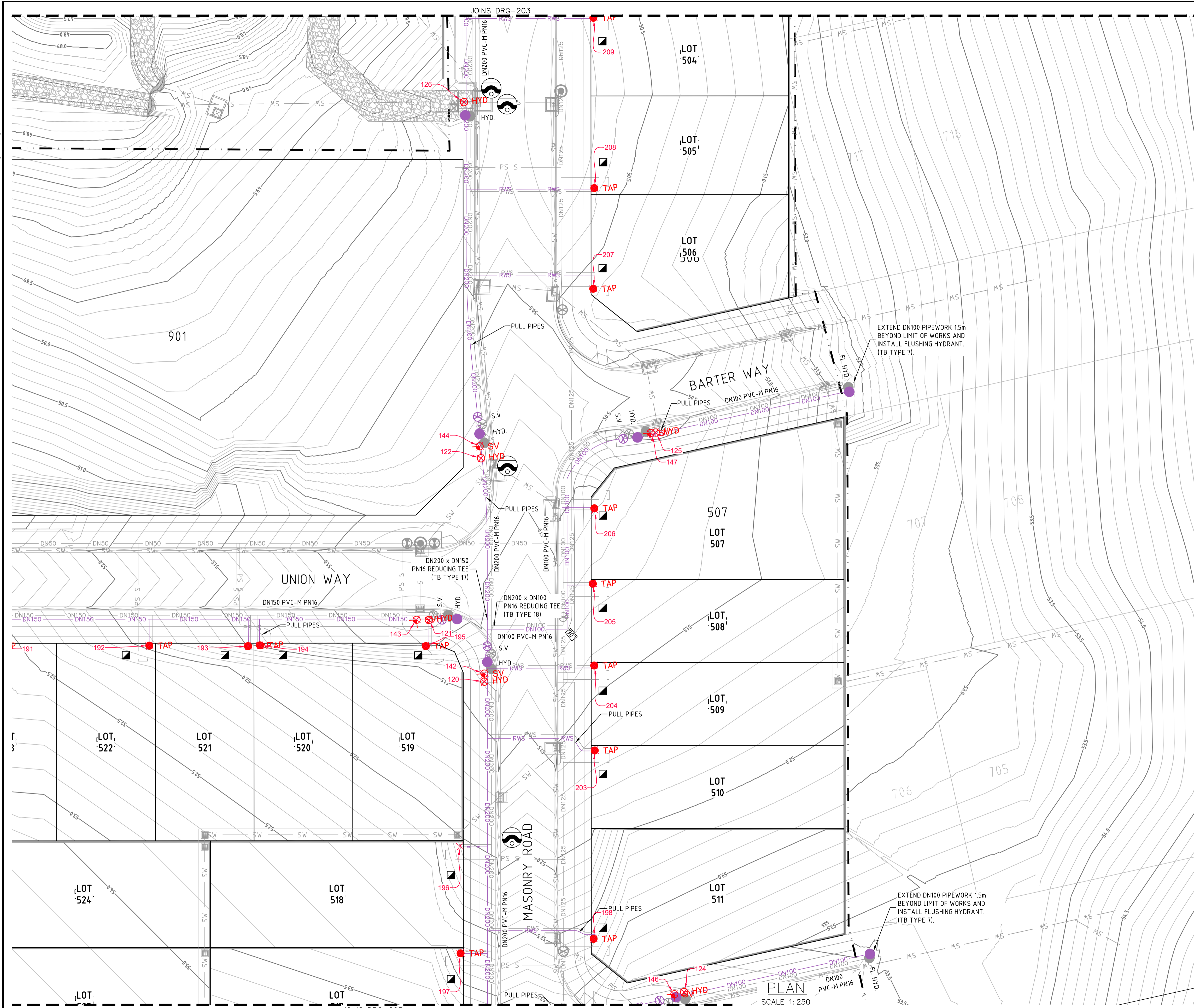
CLIENT

PROPERTY DESCRIPTION

**PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE BR5  
 HUNTLEE**

SURVEYED: Daly.Smith Pty. Ltd. DATUM: GDA94 MGA56 A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN 3		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(BR5)	- WAC -	203	4



**LEGEND**

— RW — RW — RW —	PVC-M RECYCLED WATER RETICULATION
— RWS — RWS — RWS —	PE RECYCLED WATER PROPERTY SERVICE
— W — W — W —	PVC-M POTABLE WATER RETICULATION
— PWS — PWS — PWS —	PE POTABLE WATER PROPERTY SERVICE
— SP — SP — SP —	PE PRESSURE SEWER RETICULATION
— PS S — PS S — PS S —	PE PRESSURE SEWER PROPERTY SERVICE
— SW — SW — SW —	STORMWATER PIPEWORK
— NBN — NBN —	EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
— G — G —	EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
— ex E — ex E —	EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
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-V
11.25° 22.5° 45° 90°	HORIZONTAL BEND ANGLE IN MAIN
---	LIMIT OF SUBDIVISION WORKS

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 49 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 17 x SHORT SIDE
    - 8 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 8 x SHORT SIDE
    - 4 x LONG SIDE

**RECYCLED WATER PIPE DATA**

PIPE SIZE	PIPE TYPE	QUANTITY
DN100	PVC-M PN16	294
DN150	PVC-M PN16	448
DN200	PVC-M PN16	608
DN32 (LATERAL)	PE PN16	394

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH AL TOGETHER WORKS SUPERVISOR AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAILING:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
    - FLUSHING PLAN
    - SEEK APPROVAL FROM AL TOGETHER WORKS SUPERVISOR TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**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  
 NAME: BASS RANDALL  
 SIGNED: [Signature] DATE: 12/05/2026  
 REGISTERED SURVEYOR

COMPANY: [Blank]  
 NAME: [Blank]  
 SIGNED: [Blank] DATE: [Blank]  
 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**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		<b>Hunter Office</b> Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		CLIENT PROPOSED SUBDIVISION BRIDGING RESIDENTIAL - STAGE BR5 HUNTLEE	PROPERTY DESCRIPTION POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	PROJECT 240037(BR5) - WAC - 204	PLAN TITLE RECYCLED WATER DETAIL PLAN 4	PROJECT No. 240037(BR5)	DISCIPLINE - WAC -	NUMBER 204	REV. 4
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	0 6.0 10.0 12.5m SCALE: 1:250 (FULL)											
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.												
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.												
0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.												
1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.												
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.												
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.												
4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.												

DESIGN FILE: N:\240037\DWG\Water & Sewer\Stage BR5 Water and Sewer\X-240037(BR5)-WAT-DESIGN.dwg  
 ALL DIMENSIONS ARE IN METRES. DO NOT SCALE  
 Plotted By: tima Plot Date: 02/06/26 - 08:53 Cad File: \\adw-svr4\adw-data\240072\DWG\Water & Sewer\Stage BR5-WAC\240037(BR5)-WAC-207.dwg

**LEGEND**

- PVC-M RECYCLED WATER RETICULATION
- PE RECYCLED WATER PROPERTY SERVICE
- PVC-M POTABLE WATER RETICULATION
- PE POTABLE WATER PROPERTY SERVICE
- PE PRESSURE SEWER RETICULATION
- PE PRESSURE SEWER PROPERTY SERVICE
- STORMWATER PIPEWORK
- EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
- EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
- EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
- 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
- HORIZONTAL BEND ANGLE IN MAIN
- LIMIT OF SUBDIVISION WORKS

**RECYCLED WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 49 CONNECTIONS  
 • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V  
 -17 x SHORT SIDE  
 -8 x LONG SIDE  
 • SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V  
 -8 x SHORT SIDE  
 -4 x LONG SIDE

RECYCLED WATER PIPE DATA		
DN100	PVC-M PN16	294
DN150	PVC-M PN16	448
DN200	PVC-M PN16	608
DN32 (LATERAL)	PE PN16	394

**NOTES:**

- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
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  - ISOLATION VALVES TO BE CLOSED
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- SEEK APPROVAL FROM ALTOGETHER WORKS SUPERVISOR TO PERFORM HOTTAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

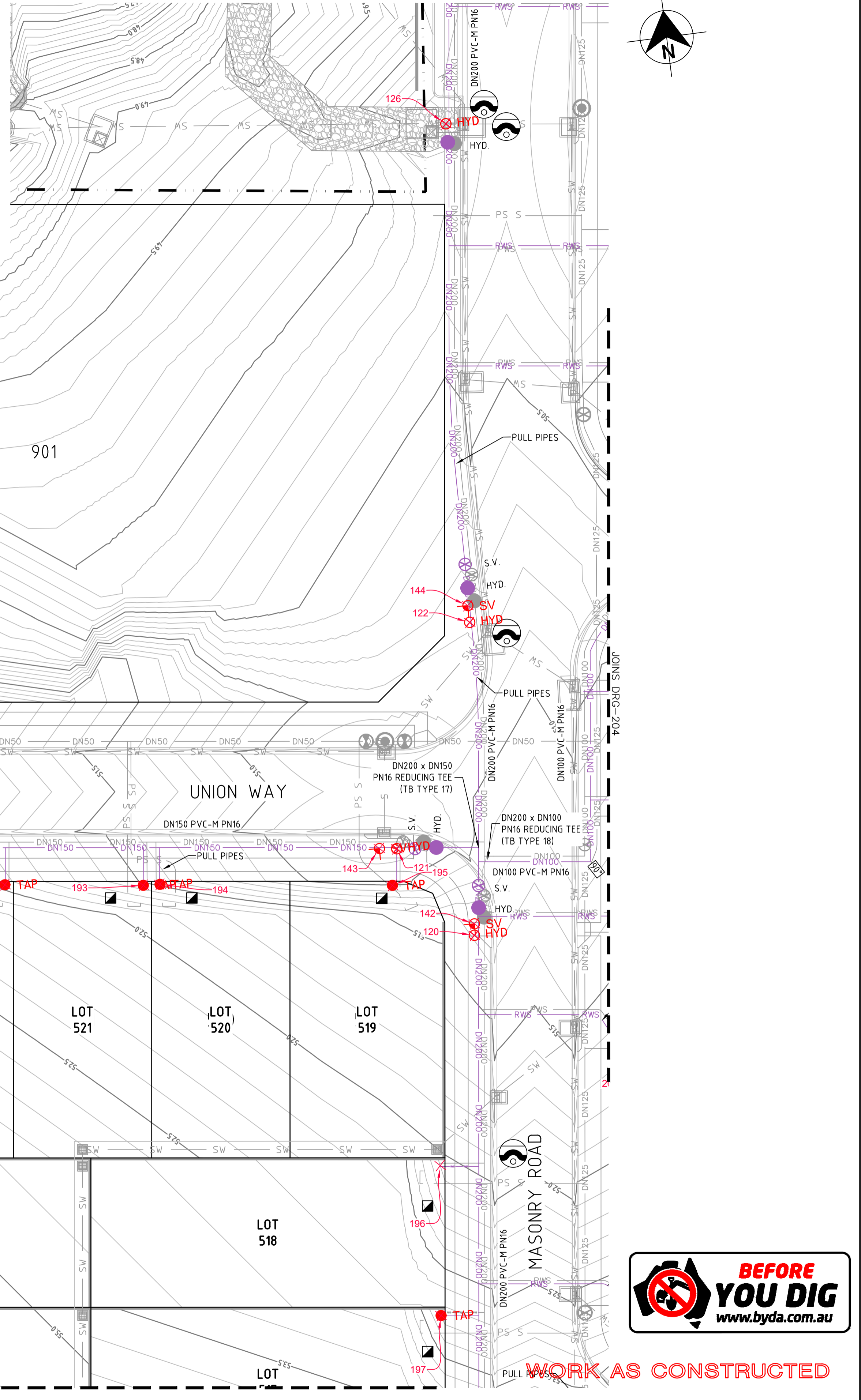
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COMPANY: ADW Johnson Pty Ltd  
 NAME: BASS RANDALL  
 SIGNED: [Signature] DATE: 12/05/2026 REGISTERED SURVEYOR

COMPANY: [Blank]  
 NAME: [Blank]  
 SIGNED: [Blank] DATE: [Blank] 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**

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.
0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.
1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.
4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.

DESIGN FILE: N:\240037\DWG\Water & Sewer\Stage BR5 Water and Sewer\X-240037(BR5)-WAT-DESIGN.dwg

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

SCALE: 1:250 (FULL)

**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@adwjohanson.com.au  
 www.adwjohanson.com.au  
 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE BR5  
 HUNTLEE

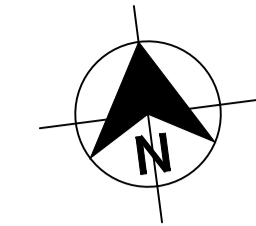
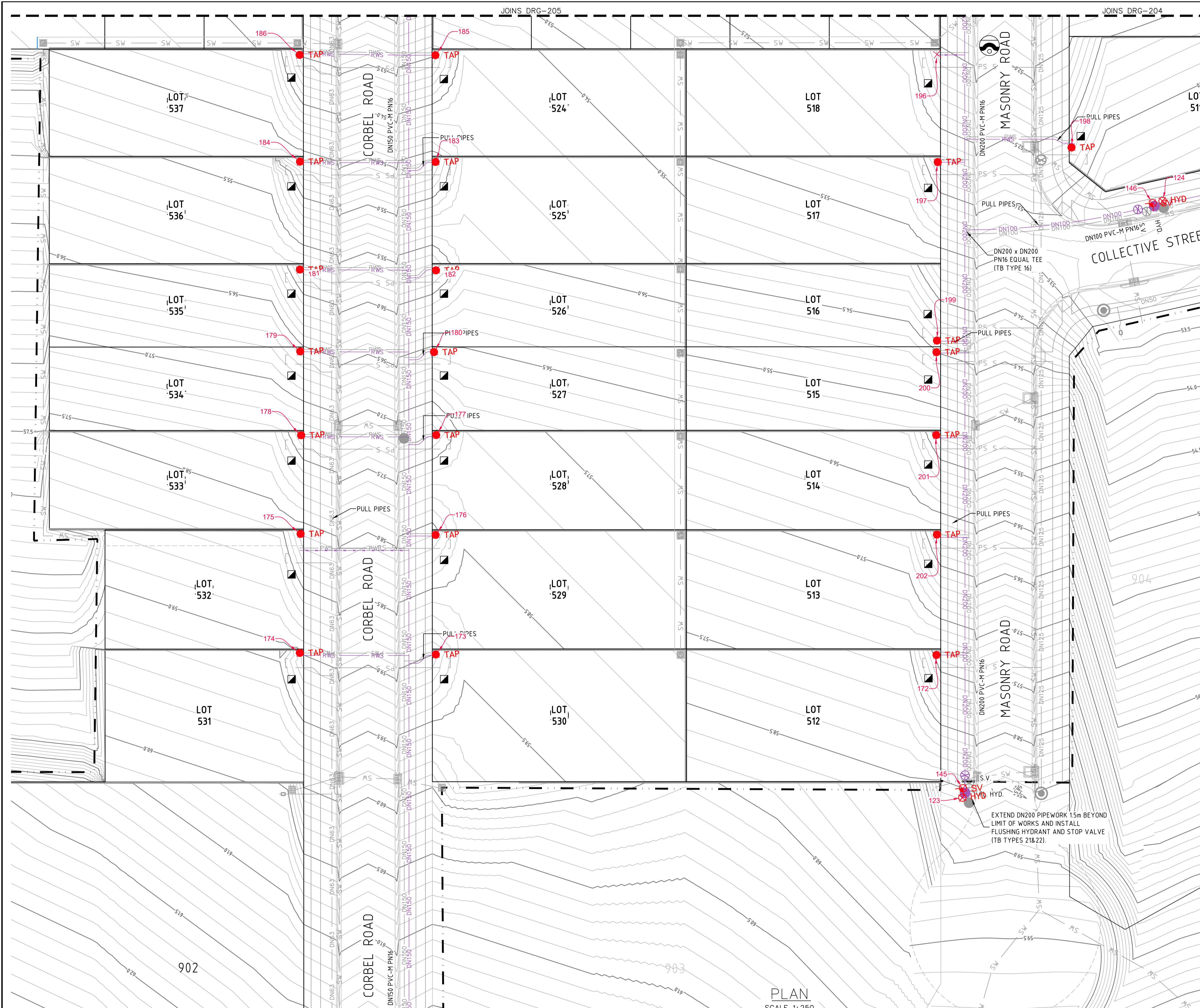
SURVEYED: Daly.Smith Pty. Ltd.  
 DATUM: GDA94 MGA56 A.H.D.

PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: RECYCLED WATER DETAIL PLAN 5

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(BR5)	- WAC -	205	4

240037(BR5)-WAC-207



**LEGEND**

— RW —	PVC-M RECYCLED WATER RETICULATION
— RWS —	PE RECYCLED WATER PROPERTY SERVICE
— W —	PVC-M POTABLE WATER RETICULATION
— PWS —	PE POTABLE WATER PROPERTY SERVICE
— SP —	PE PRESSURE SEWER RETICULATION
— PS S —	PE PRESSURE SEWER PROPERTY SERVICE
— SW —	STORMWATER PIPEWORK
— NBN —	EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
— G —	EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
— ex E —	EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
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-1255-18
11.25° 22.5° 45° 90°	HORIZONTAL BEND ANGLE IN MAIN
---	LIMIT OF SUBDIVISION WORKS

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 49 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 17 x SHORT SIDE
    - 8 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 8 x SHORT SIDE
    - 4 x LONG SIDE

**RECYCLED WATER PIPE DATA**

PIPE SIZE	PIPE TYPE	LENGTH (M)
DN100	PVC-M PN16	294
DN150	PVC-M PN16	448
DN200	PVC-M PN16	608
DN32 (LATERAL)	PE PN16	394

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH AL TOGETHER WORKS SUPERVISOR AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAILING:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
    - FLUSHING PLAN
    - SEEK APPROVAL FROM AL TOGETHER WORKS SUPERVISOR TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**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  
 NAME: BASS RANDALL  
 SIGNED: [Signature] DATE: 12/05/2026  
 REGISTERED SURVEYOR

COMPANY: [Blank]  
 NAME: [Blank]  
 SIGNED: [Blank] DATE: [Blank]  
 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**

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.
0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.
1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.
4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.

DESIGN FILE: N:\240037\DWG\Water & Sewer\Stage BR5 Water and Sewer\X-240037(BR5)-WAT-DESIGN.dwg  
 Plotted By: tima Plot Date: 02/06/26 - 08:53 Cad File: \\adw-srv4\adw-data\240072\DWG\Water & Sewer\Stage BR5-WAC\240037(BR5)-WAC-207.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

**altogether.**

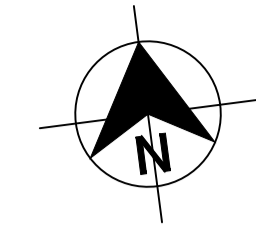
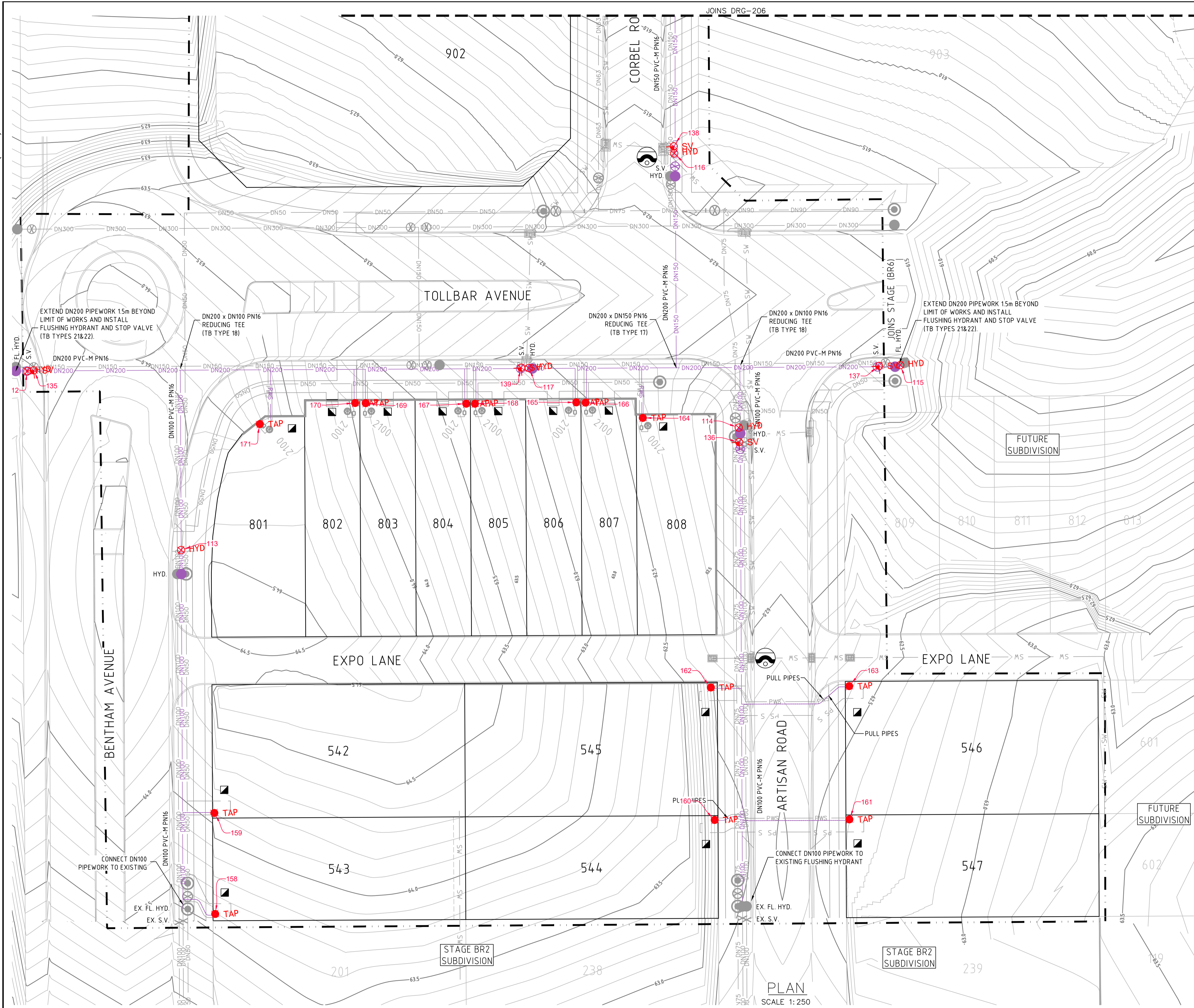
CLIENT

PROPERTY DESCRIPTION

**PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE BR5  
 HUNTLEE**

SURVEYED: Daly.Smith Pty. Ltd. DATUM: GDA94 MGA56 A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN 6		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(BR5)	- WAC -	206	4



**LEGEND**

	PVC-M RECYCLED WATER RETICULATION
	PE RECYCLED WATER PROPERTY SERVICE
	PVC-M POTABLE WATER RETICULATION
	PE POTABLE WATER PROPERTY SERVICE
	PE PRESSURE SEWER RETICULATION
	PE PRESSURE SEWER PROPERTY SERVICE
	STORMWATER PIPEWORK
	EXISTING NBN CABLE (FROM BYDA PLANS ONLY)
	EXISTING GAS MAIN (FROM BYDA PLANS ONLY)
	EXISTING U/G POWER CABLE (FROM BYDA PLANS ONLY)
	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-V
	$\square$ HORIZONTAL BEND ANGLE IN MAIN
	--- LIMIT OF SUBDIVISION WORKS

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 49 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 17 x SHORT SIDE
    - 8 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 8 x SHORT SIDE
    - 4 x LONG SIDE

RECYCLED WATER PIPE DATA		
DN100	PVC-M PN16	294
DN150	PVC-M PN16	448
DN200	PVC-M PN16	608
DN32 (LATERAL)	PE PN16	394

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH AL TOGETHER WORKS SUPERVISOR AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAILING:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
    - FLUSHING PLAN
  - SEEK APPROVAL FROM AL TOGETHER WORKS SUPERVISOR TO PERFORM HOT TAP CONNECTION IF PREFERRED CONSTRUCTION METHODOLOGY FOR CONNECTION.

**WORK AS CONSTRUCTED**

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COMPANY	ADW Johnson Pty Ltd	COMPANY	
NAME	BASS RANDALL	NAME	
SIGNED	<i>Bass Randall</i>	DATE	12/05/2026
	REGISTERED SURVEYOR	SIGNED	
		DATE	...../...../.....
			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
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.	
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	
0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.	

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage BR5 Water and Sewer\X-240037(BR5)-WAT-DESIGN.dwg

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

**adw Johnson**

Hunter Office  
 Unit 7/335 Hillsborough Rd  
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 Phone: (02) 4978 5100  
 Fax: (02) 4978 5199  
 email: hunter@adwjohanson.com.au  
 www.adwjohanson.com.au  
 ABN 62 129 445 398

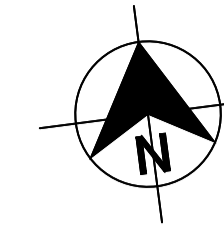
CLIENT

PROPERTY DESCRIPTION

**PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE BR5  
 HUNTLEE**

SURVEYED: Daly.Smith Pty. Ltd.      DATUM: GDA94 MGA56      A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN 7		
PROJECT No.	240037(BR5)	DISCIPLINE	- WAC -
NUMBER	207	REV.	4



- LEGEND**
- SP- SP- SP- PE PRESSURE SEWER RETICULATION
  - PS S PS S PE PRESSURE SEWER PROPERTY SERVICE
  - W- W- W- PVC-M POTABLE WATER RETICULATION
  - PWS PWS PWS PE POTABLE WATER PROPERTY SERVICE
  - RW RW RW PVC-M RECYCLED WATER RETICULATION
  - RWS RWS RWS PE RECYCLED WATER PROPERTY SERVICE
  - SW- SW- SW- STORMWATER PIPEWORK
  - - - DRAINAGE EASEMENT
- 
- 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 (& TEMP. FLOW DIRECTION - RED)
  - PROPERTY SERVICE CONNECTION
  - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - - - - - LIMIT OF SUBDIVISION WORKS

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 49 CONNECTIONS  
 • SINGLE SERVICES  
 -26 x SHORT SIDE  
 -23 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN160	PE PN16	23
DN140	PE PN16	80
DN125	PE PN16	472
DN90	PE PN16	24
DN75	PE PN16	104
DN63	PE PN16	215
DN50	PE PN16	391
DN40 (LATERAL)	PE PN16	485

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  - 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).**
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAIL:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
  - WHEN PRESSURE SEWER TANKS AND BOUNDARY KITS ARE LOCATED AT SPLAY CORNERS OF LOTS, THE INSTALLER IS TO CONFIRM ORIENTATION OF TANK AND BOUNDARY KIT WITH SUPERINTENDENT PRIOR TO INSTALLATION.

**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.

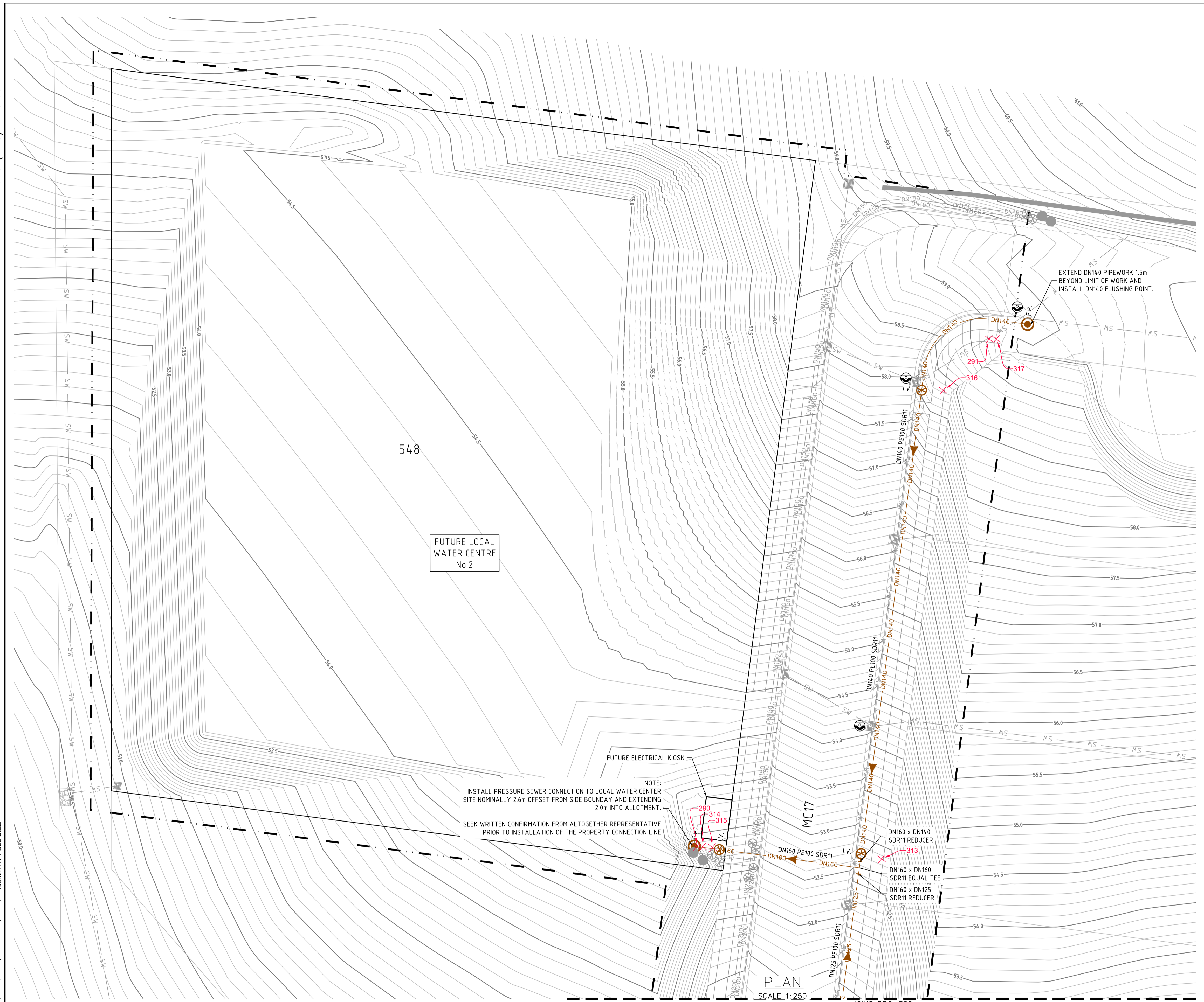
COMPANY ADWJohnson Pty Ltd COMPANY  
 NAME BASS RANDALL NAME  
 SIGNED DATE 12/05/2026 SIGNED \_\_\_\_\_ DATE \_\_\_\_/\_\_\_\_/\_\_\_\_  
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

**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
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.	
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	
0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
4	12.05.2026	<b>WORK AS CONSTRUCTED</b>	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

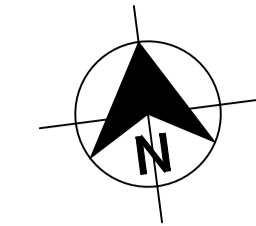
CLIENT

PROPERTY DESCRIPTION

**PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE BR5  
 HUNTLEE**

SURVEYED: Daly.Smith Pty. Ltd. DATUM: GDA94 MGA56 A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	PRESSURE SEWER DETAIL PLAN 1		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(BR5)	- WAC -	301	4



- LEGEND**
- SP-SP-SP PE PRESSURE SEWER RETICULATION
  - PS S PS S PE PRESSURE SEWER PROPERTY SERVICE
  - W-W-W PVC-M POTABLE WATER RETICULATION
  - PWS-PWS-PWS PE POTABLE WATER PROPERTY SERVICE
  - RW-RW-RW PVC-M RECYCLED WATER RETICULATION
  - RWS-RWS-RWS PE RECYCLED WATER PROPERTY SERVICE
  - SW-SW-SW STORMWATER PIPEWORK
  - - - DRAINAGE EASEMENT
- 
- 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 (& TEMP. FLOW DIRECTION - RED)
  - PROPERTY SERVICE CONNECTION
  - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - LIMIT OF SUBDIVISION WORKS

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 49 CONNECTIONS  
 • SINGLE SERVICES  
 -26 x SHORT SIDE  
 -23 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN160	PE PN16	23
DN140	PE PN16	80
DN125	PE PN16	472
DN90	PE PN16	24
DN75	PE PN16	104
DN63	PE PN16	215
DN50	PE PN16	391
DN40 (LATERAL)	PE PN16	485

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  - 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).**
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAIL:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
  - WHEN PRESSURE SEWER TANKS AND BOUNDARY KITS ARE LOCATED AT SPLAY CORNERS OF LOTS, THE INSTALLER IS TO CONFIRM ORIENTATION OF TANK AND BOUNDARY KIT WITH SUPERINTENDENT PRIOR TO INSTALLATION.

**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* DATE 12/05/2026 SIGNED DATE  
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

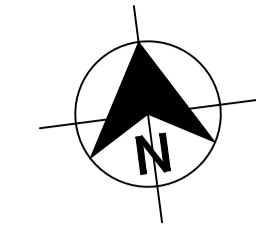
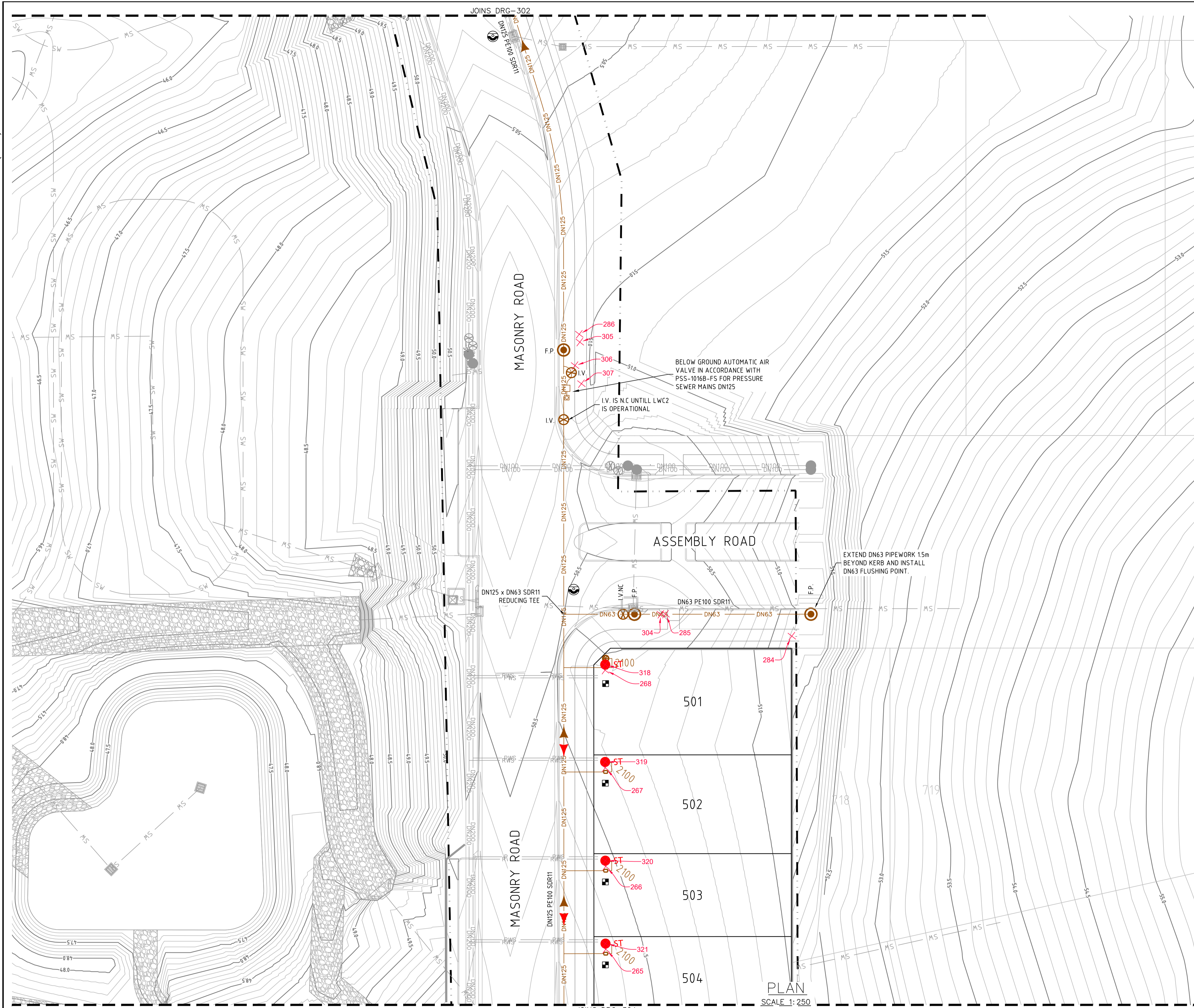
**ORIGIN OF W.A.C. LEVELS**

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	PROJECT No.	DISCIPLINE	NUMBER	REV.
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	 SCALE: 1:250 (FULL)	<b>Hunter Office</b> Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	PROPOSED SUBDIVISION BRIDGING RESIDENTIAL - STAGE BR5 HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	PRESSURE SEWER DETAIL PLAN 2	240037(BR5)	- WAC -	302	4
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.									
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.									
0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.									
1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		DALY SMITH PTY. LTD.	GDA94 MGA56 A.H.D.	240037(BR5)	- WAC -	302	4	
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.									
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.									
4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.									



**LEGEND**

SP	PE PRESSURE SEWER RETICULATION
PS S	PE PRESSURE SEWER PROPERTY SERVICE
W	PVC-M POTABLE WATER RETICULATION
PWS	PE POTABLE WATER PROPERTY SERVICE
RW	PVC-M RECYCLED WATER RETICULATION
RWS	PE RECYCLED WATER PROPERTY SERVICE
SW	STORMWATER PIPEWORK
DE	DRAINAGE EASEMENT

- 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 (& TEMP. FLOW DIRECTION - RED)
- PROPERTY SERVICE CONNECTION
- LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- LIMIT OF SUBDIVISION WORKS

**■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 49 CONNECTIONS  
 • SINGLE SERVICES  
 -26 x SHORT SIDE  
 -23 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN160	PE PN16	23
DN140	PE PN16	80
DN125	PE PN16	472
DN90	PE PN16	24
DN75	PE PN16	104
DN63	PE PN16	215
DN50	PE PN16	391
DN40 (LATERAL)	PE PN16	485

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  - 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).**
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAIL:  
 - DURATION OF REQUIRED SHUTDOWN  
 - ISOLATION VALVES TO BE CLOSED
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**WORK AS CONSTRUCTED**  
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 COMPANY ADWJohnson Pty Ltd COMPANY  
 NAME BASS RANDALL NAME  
 SIGNED *Bass Randall* DATE 12/05/2026 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

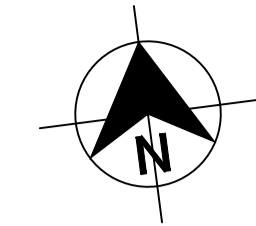
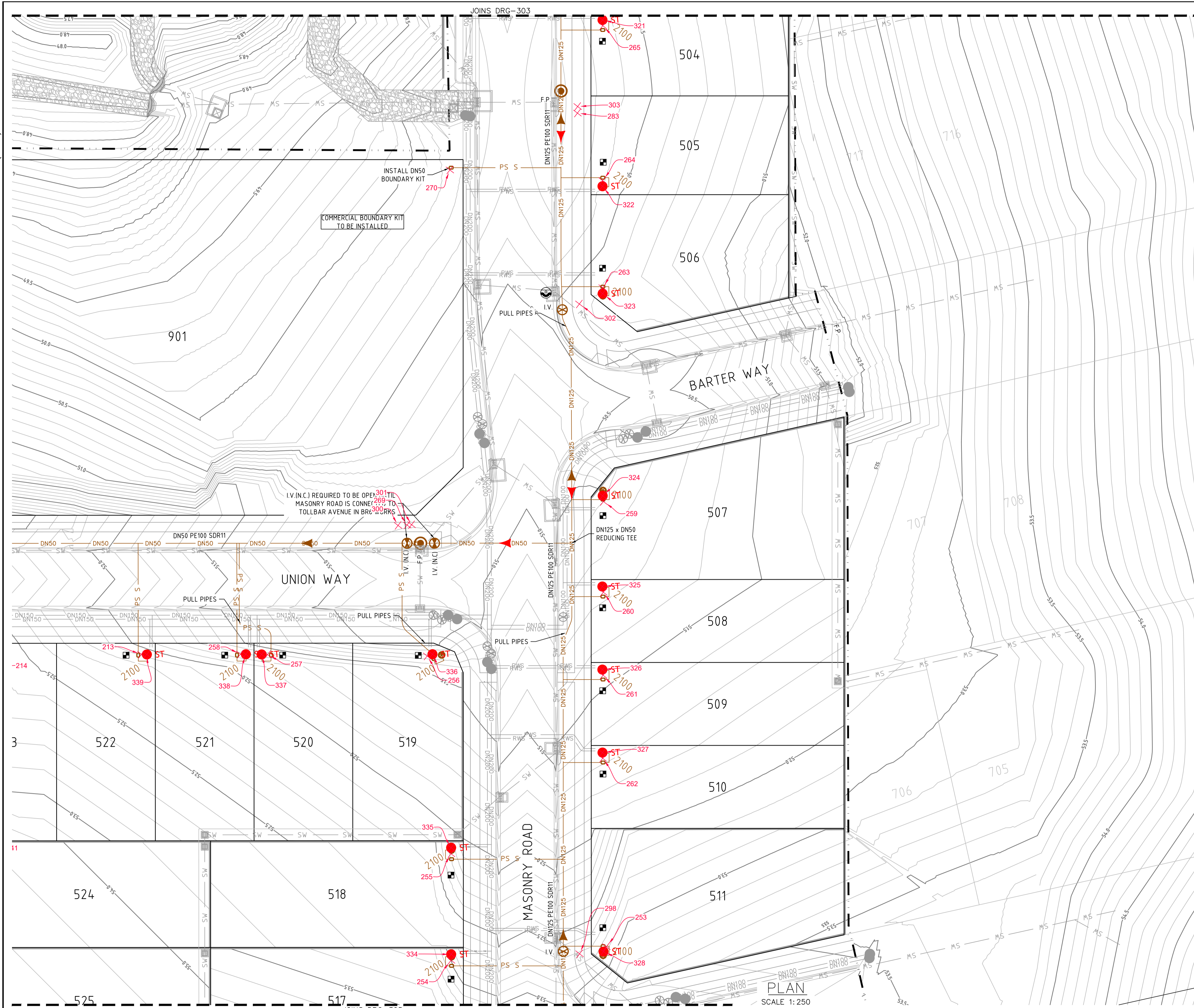


**WORK AS CONSTRUCTED**

<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>B</td> <td>09.05.2025</td> <td>INITIAL ISSUE</td> <td>I.B.</td> <td>C.H.</td> <td>C.H.</td> <td>C.B.</td> </tr> <tr> <td>C</td> <td>12.05.2025</td> <td>INITIAL ISSUE</td> <td>T.A.</td> <td>C.H.</td> <td>C.H.</td> <td>C.B.</td> </tr> <tr> <td>D</td> <td>26.06.2025</td> <td>AMENDED INITIAL ISSUE</td> <td>I.B.</td> <td>C.H.</td> <td>C.H.</td> <td>C.B.</td> </tr> <tr> <td>0</td> <td>25.07.2025</td> <td>CONSTRUCTION ISSUE</td> <td>I.B.</td> <td>C.H.</td> <td>C.H.</td> <td>C.B.</td> </tr> <tr> <td>1</td> <td>10.09.2025</td> <td>AMENDED CONSTRUCTION ISSUE</td> <td>I.B.</td> <td>C.H.</td> <td>C.H.</td> <td>C.B.</td> </tr> <tr> <td>2</td> <td>22.09.2025</td> <td>AMENDED CONSTRUCTION ISSUE</td> <td>I.B.</td> <td>C.H.</td> <td>C.H.</td> <td>C.B.</td> </tr> <tr> <td>3</td> <td>25.09.2025</td> <td>AMENDED CONSTRUCTION ISSUE</td> <td>I.B.</td> <td>C.H.</td> <td>C.H.</td> <td>C.B.</td> </tr> <tr> <td>4</td> <td>12.05.2026</td> <td>WORK AS CONSTRUCTED</td> <td>T.A.</td> <td>C.H.</td> <td>C.H.</td> <td>C.B.</td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.	D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.	<p>DESIGN FILE N:\240037\DWG\Water &amp; Sewer\Stage BR5 Water and Sewer\X-240037(BR5)-WAT-DESIGN.dwg</p> <p>Plotted By: tima Plot Date: 02/06/26 - 08:53 Cad File: \\adw-svr4\adw-data\240072\DWG\Water &amp; Sewer\Stage BR5-WAC\240037(BR5)-WAC-307.dwg</p>	<p>ALL DIMENSIONS ARE IN METRES. DO NOT SCALE</p> <p>SCALE: 1:250 (FULL)</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</p> <p>PROPOSED SUBDIVISION          BRIDGING RESIDENTIAL - STAGE BR5          HUNTLEE</p>	<p>PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p> <p>PLAN TITLE</p> <p>PRESSURE SEWER DETAIL PLAN 3</p>	<table border="1"> <tr> <th>PROJECT No.</th> <th>DISCIPLINE</th> <th>NUMBER</th> <th>REV.</th> </tr> <tr> <td>240037(BR5)</td> <td>- WAC -</td> <td>303</td> <td>4</td> </tr> </table>	PROJECT No.	DISCIPLINE	NUMBER	REV.	240037(BR5)	- WAC -	303	4
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240037(BR5)-WAC-307

100mm AT FULL SIZE



- LEGEND**
- SP SP SP PE PRESSURE SEWER RETICULATION
  - PS S PS S PE PRESSURE SEWER PROPERTY SERVICE
  - W W W PVC-M POTABLE WATER RETICULATION
  - PWS PWS PWS PE POTABLE WATER PROPERTY SERVICE
  - RW RW RW PVC-M RECYCLED WATER RETICULATION
  - RWS RWS RWS PE RECYCLED WATER PROPERTY SERVICE
  - SW SW SW STORMWATER PIPEWORK
  - DRAINAGE EASEMENT
- 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 (& TEMP. FLOW DIRECTION - RED)
  - PROPERTY SERVICE CONNECTION
  - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - LIMIT OF SUBDIVISION WORKS

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 49 CONNECTIONS  
 • SINGLE SERVICES  
 -26 x SHORT SIDE  
 -23 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN160	PE PN16	23
DN140	PE PN16	80
DN125	PE PN16	472
DN90	PE PN16	24
DN75	PE PN16	104
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DN40 (LATERAL)	PE PN16	485

- NOTES:**
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  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
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COMPANY ADW Johnson Pty Ltd      COMPANY  
 NAME BASS RANDALL      NAME  
 SIGNED *Bass* DATE 12/05/2026      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
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	0 5.0 10.0 12.5m SCALE: 1:250 (FULL)
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.	
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	
0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
4	12.05.2026	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

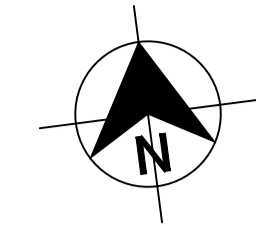
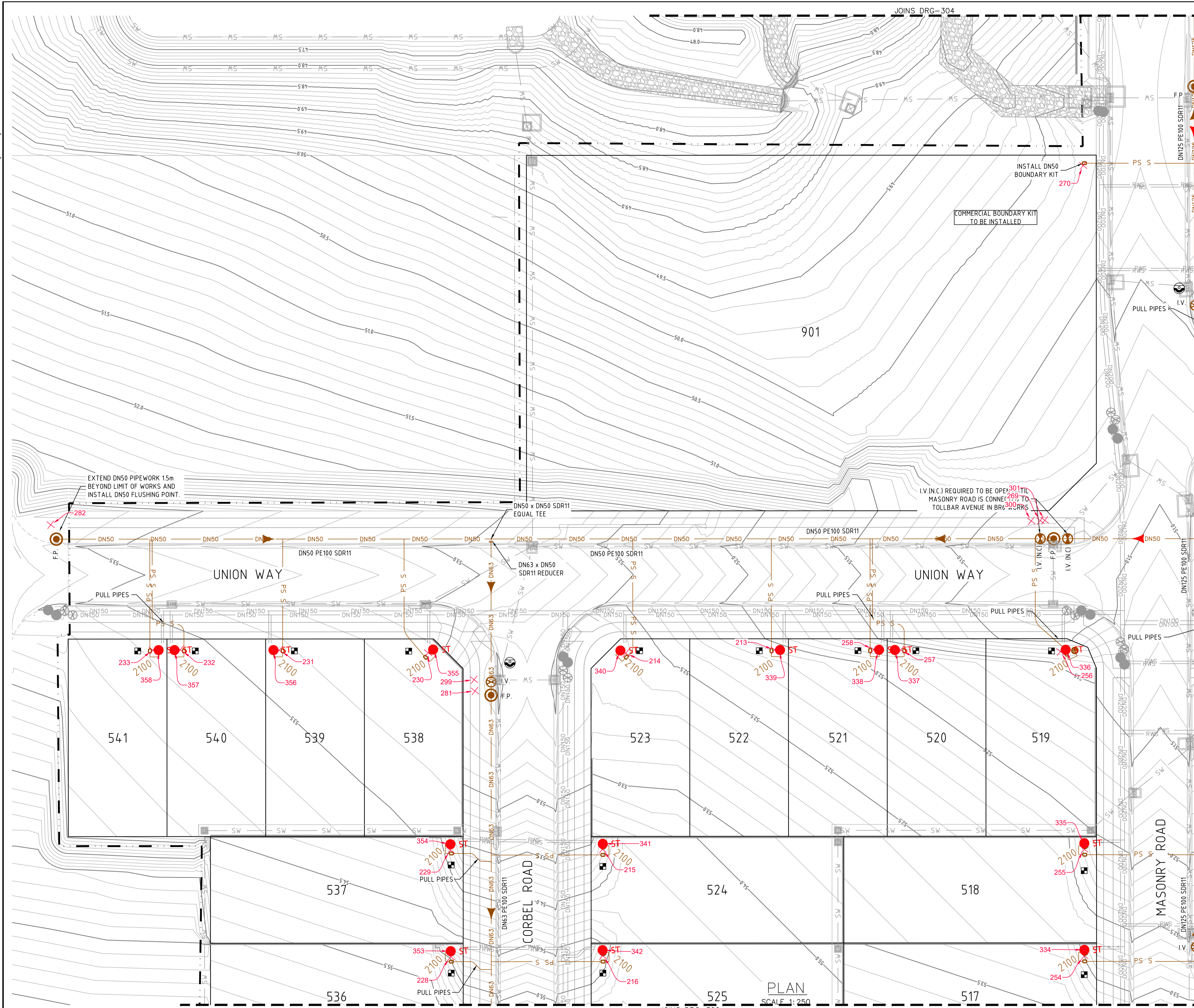
CLIENT

PROPERTY DESCRIPTION

**PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE BR5  
 HUNTLEE**

SURVEYED: Daly.Smith Pty. Ltd.      DATUM: GDA94 MGA56 A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	PRESSURE SEWER DETAIL PLAN 4		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(BR5)	- WAC -	304	4



- LEGEND**
- SP --- SP --- SP --- PE PRESSURE SEWER RETICULATION
  - PS S --- PS S --- PE PRESSURE SEWER PROPERTY SERVICE
  - W --- W --- W --- PVC-M POTABLE WATER RETICULATION
  - PWS --- PWS --- PWS --- PE POTABLE WATER PROPERTY SERVICE
  - RW --- RW --- RW --- PVC-M RECYCLED WATER RETICULATION
  - RWS --- RWS --- RWS --- PE RECYCLED WATER PROPERTY SERVICE
  - SW --- SW --- SW --- STORMWATER PIPEWORK
  - --- --- DRAINAGE EASEMENT
- 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 (& TEMP. FLOW DIRECTION - RED)
  - --- PROPERTY SERVICE CONNECTION
  - --- LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - --- LIMIT OF SUBDIVISION WORKS

- PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 49 CONNECTIONS  
 • SINGLE SERVICES  
 -26 x SHORT SIDE  
 -23 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN160	PE PN16	23
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- NOTES:**
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  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
  - 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.
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COMPANY ADWJohnson Pty Ltd      COMPANY  
 NAME BASS RANDALL      NAME  
 SIGNED *Bass*      DATE 12/05/2026      SIGNED      DATE      /      /  
 REGISTERED SURVEYOR      CONSTRUCTION MANAGER

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

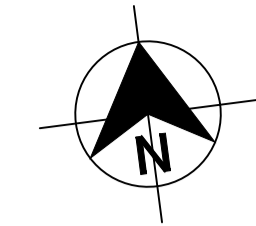
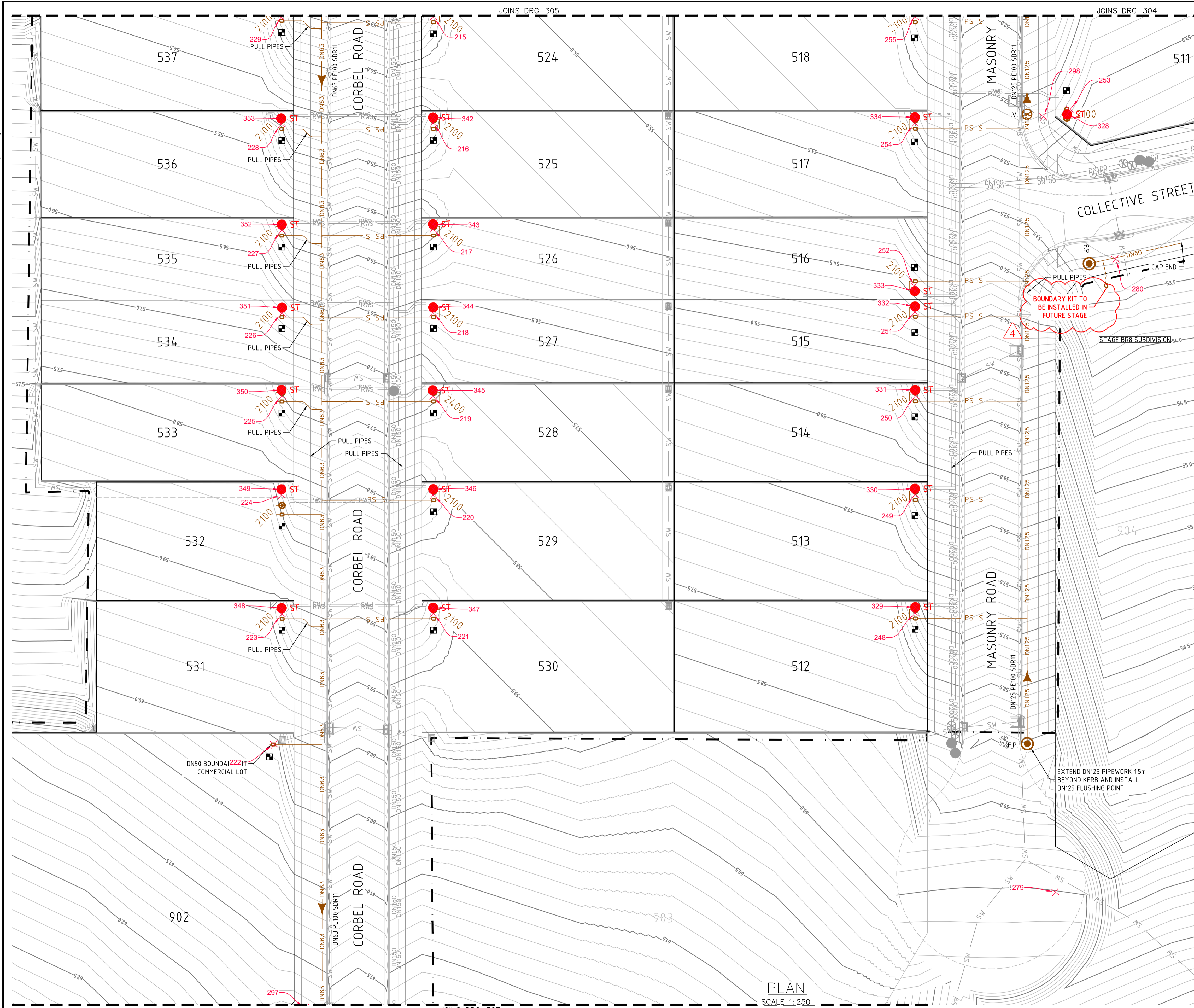
PM 20029      Co-Ord System: MGA Ground  
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 RL: 77.675m

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	0 5.0 10.0 12.5m SCALE: 1:250 (FULL)	<b>Hunter Office</b> Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	<b>PROPOSED SUBDIVISION</b> BRIDGING RESIDENTIAL - STAGE BR5 HUNTLEE	<b>POTABLE WATER, RECYCLED WATER AND</b> <b>PRESSURE SEWER RETICULATION</b>	<b>PRESSURE SEWER DETAIL PLAN 5</b>	<b>240037(BR5)</b>	<b>- WAC -</b>	<b>305</b>	<b>4</b>
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.									
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4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.									

240037(BR5)-WAC-307

100mm AT FULL SIZE



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  - PS S --- PS S --- PE PRESSURE SEWER PROPERTY SERVICE
  - W --- W --- W --- PVC-M POTABLE WATER RETICULATION
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 SIGNED *Bass Randall*      DATE 12/05/2026      SIGNED \_\_\_\_\_      DATE \_\_\_\_/\_\_\_\_/\_\_\_\_  
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1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.
4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage BR5 Water and Sewer\X-240037(BR5)-WAT-DESIGN.dwg  
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SCALE: 1:250

SCALE: 1:250 (FULL)

**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

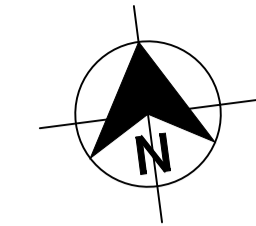
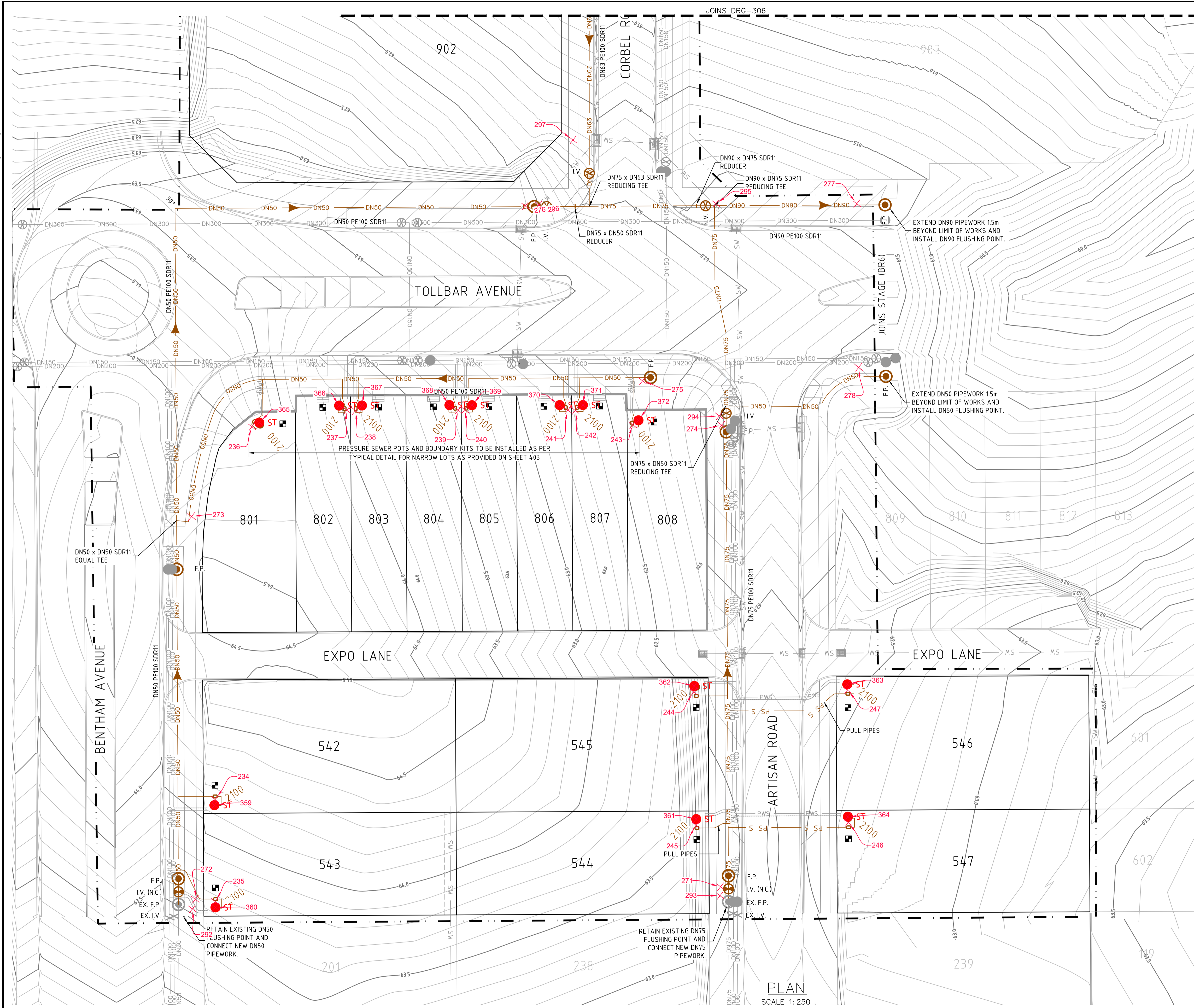
CLIENT

PROPERTY DESCRIPTION

**PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE BR5  
 HUNTLEE**

SURVEYED: Daly.Smith Pty. Ltd.      DATUM: GDA94 MGA56 A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	PRESSURE SEWER DETAIL PLAN 6		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(BR5)	- WAC -	306	4



- LEGEND**
- SP- SP- SP- PE PRESSURE SEWER RETICULATION
  - PS S PS S PE PRESSURE SEWER PROPERTY SERVICE
  - W- W- W- PVC-M POTABLE WATER RETICULATION
  - PWS PWS PWS PE POTABLE WATER PROPERTY SERVICE
  - RW RW RW PVC-M RECYCLED WATER RETICULATION
  - RWS RWS RWS PE RECYCLED WATER PROPERTY SERVICE
  - SW- SW- SW- STORMWATER PIPEWORK
  - DRAINAGE EASEMENT
- 
- 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 (& TEMP. FLOW DIRECTION - RED)
  - PROPERTY SERVICE CONNECTION
  - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - LIMIT OF SUBDIVISION WORKS

**■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 49 CONNECTIONS  
 • SINGLE SERVICES  
 -26 x SHORT SIDE  
 -23 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN160	PE PN16	23
DN140	PE PN16	80
DN125	PE PN16	472
DN90	PE PN16	24
DN75	PE PN16	104
DN63	PE PN16	215
DN50	PE PN16	391
DN40 (LATERAL)	PE PN16	485

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203.
  - 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).**
  - CONTRACTOR TO CONFIRM SHUTDOWN REQUIREMENTS AND SHUTDOWN DATE WITH ALTOGETHER WORKS SUPERVISOR (NED CAMPBELL) AT A MINIMUM OF 2 WEEKS PRIOR TO PROPOSED REQUESTED SHUTDOWN DATE. PROVIDE SHUTDOWN PLAN DETAIL:
    - DURATION OF REQUIRED SHUTDOWN
    - ISOLATION VALVES TO BE CLOSED
  - WHEN PRESSURE SEWER TANKS AND BOUNDARY KITS ARE LOCATED AT SPLAY CORNERS OF LOTS, THE INSTALLER IS TO CONFIRM ORIENTATION OF TANK AND BOUNDARY KIT WITH SUPERINTENDENT PRIOR TO INSTALLATION.

**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 12/05/2026      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
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.	
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	
0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
4	12.05.2026	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

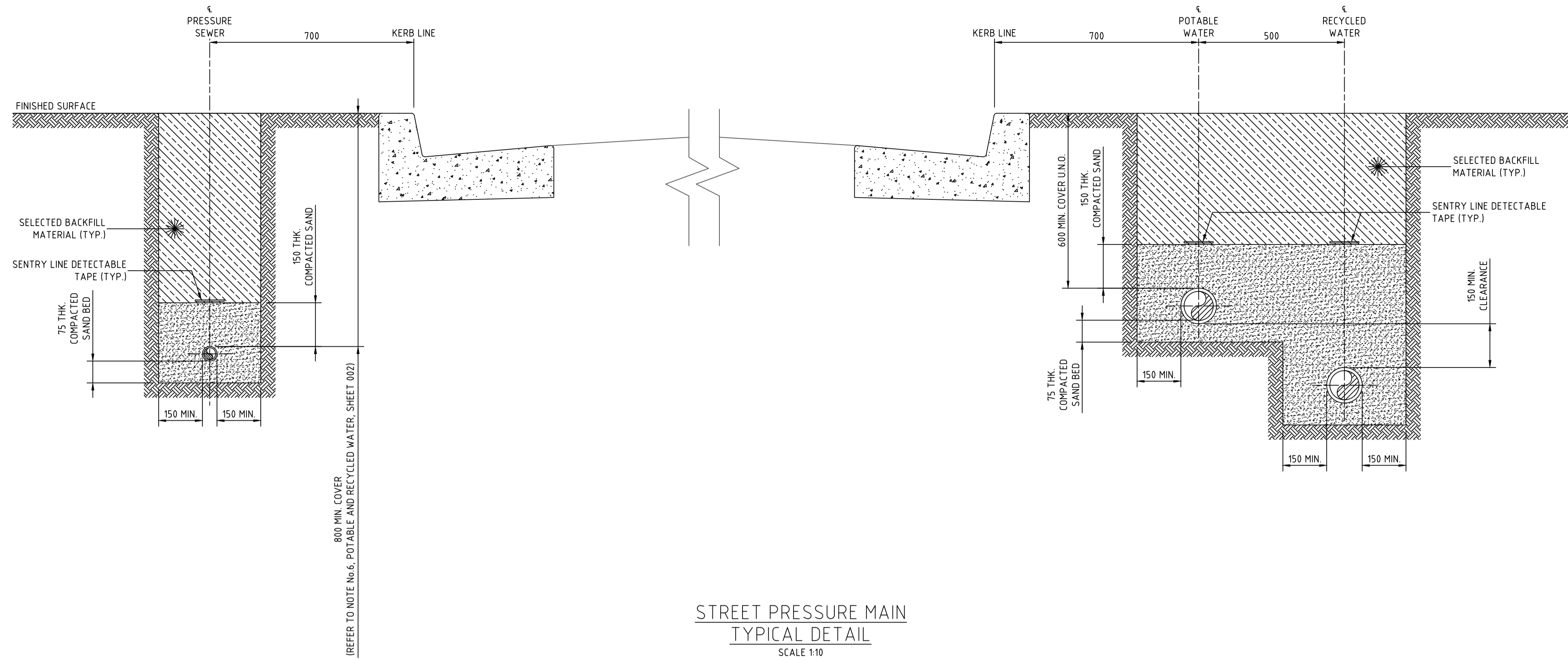
**PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE BR5  
 HUNTLEE**

SURVEYED: Daly.Smith Pty. Ltd.      DATUM: GDA94 MGA56 A.H.D.

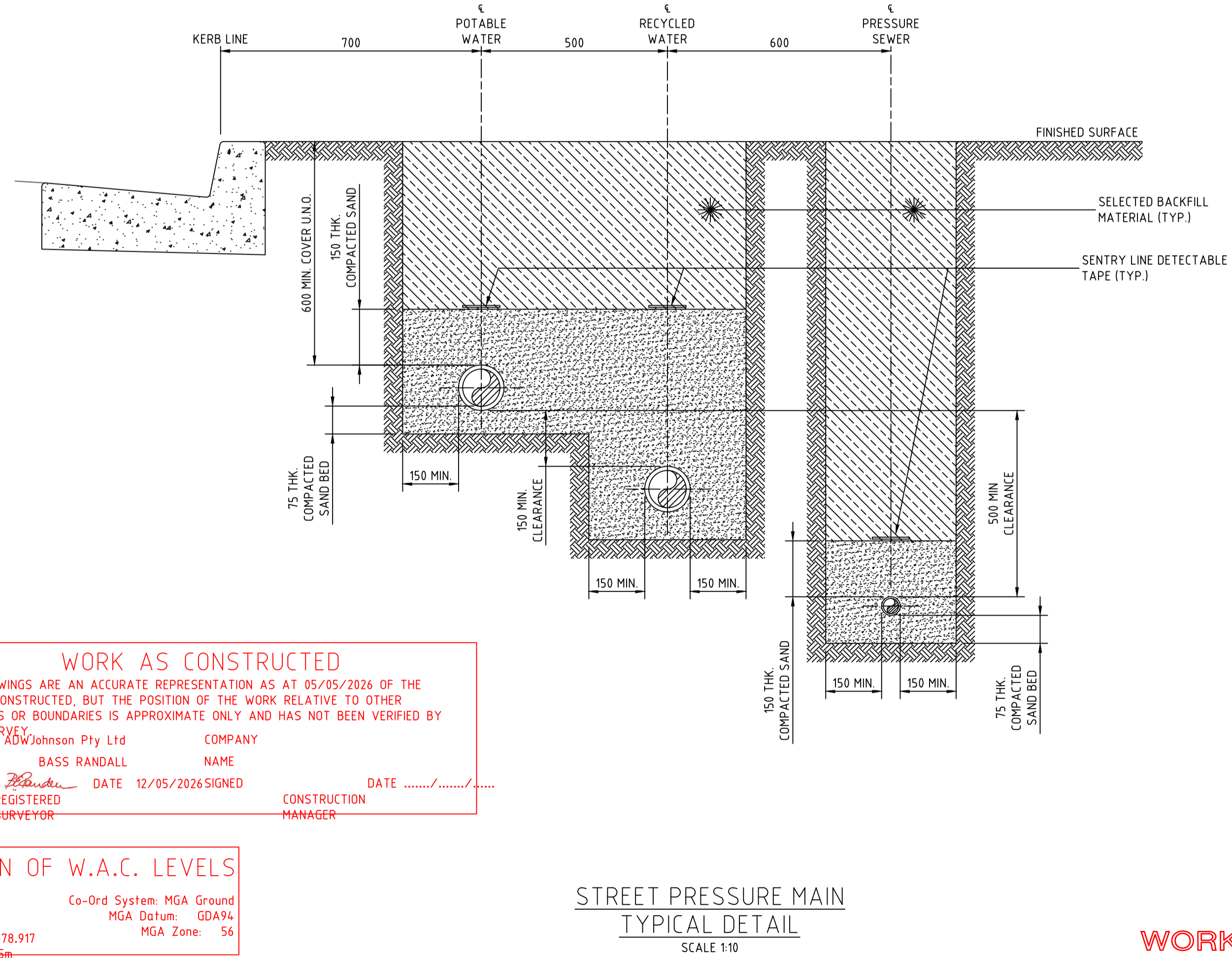
PROJECT: POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE: PRESSURE SEWER DETAIL PLAN 7

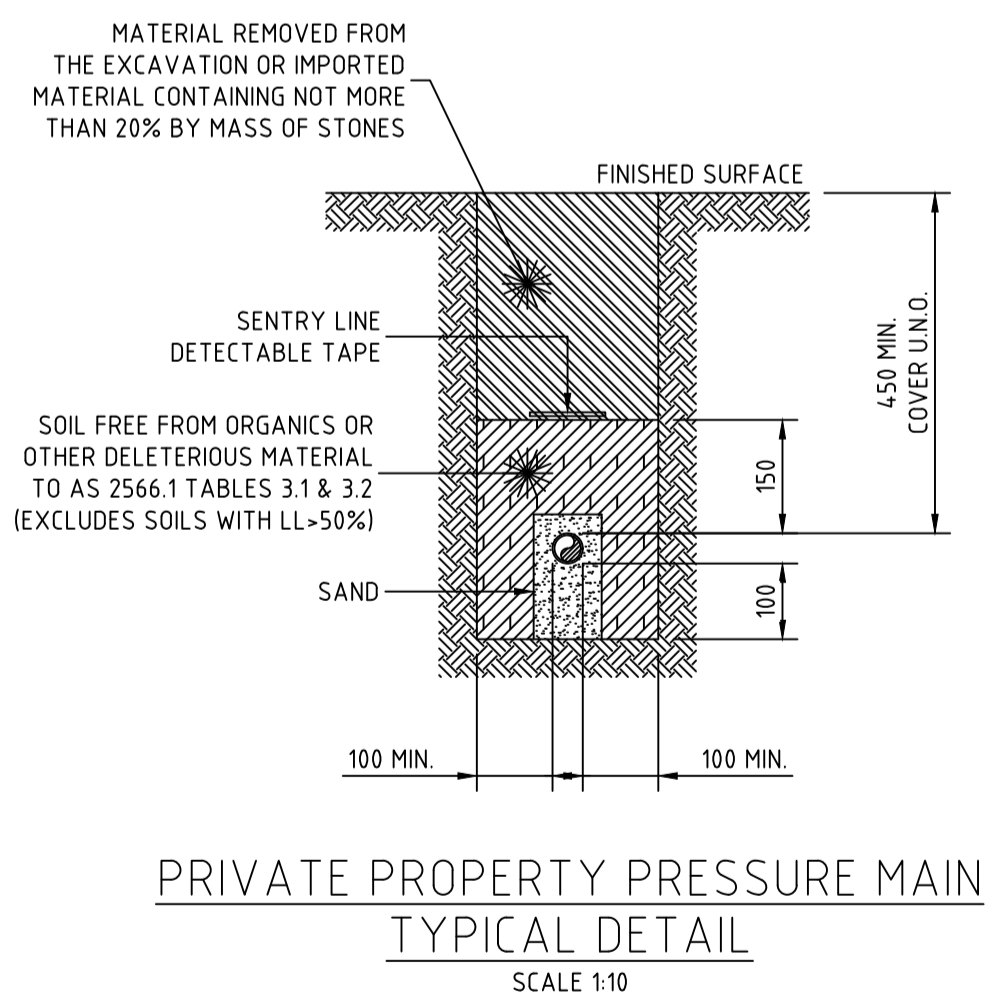
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(BR5)	- WAC -	307	4



STREET PRESSURE MAIN  
TYPICAL DETAIL  
SCALE 1:10



STREET PRESSURE MAIN  
TYPICAL DETAIL  
SCALE 1:10



PRIVATE PROPERTY PRESSURE MAIN  
TYPICAL DETAIL  
SCALE 1:10

**WORK AS CONSTRUCTED**  
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 COMPANY: ADW Johnson Pty Ltd  
 NAME: BASS RANDALL  
 SIGNED: [Signature] DATE: 12/05/2026  
 REGISTERED SURVEYOR: [Signature] CONSTRUCTION MANAGER: [Signature]

**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**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.	
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	
0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	
4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.	

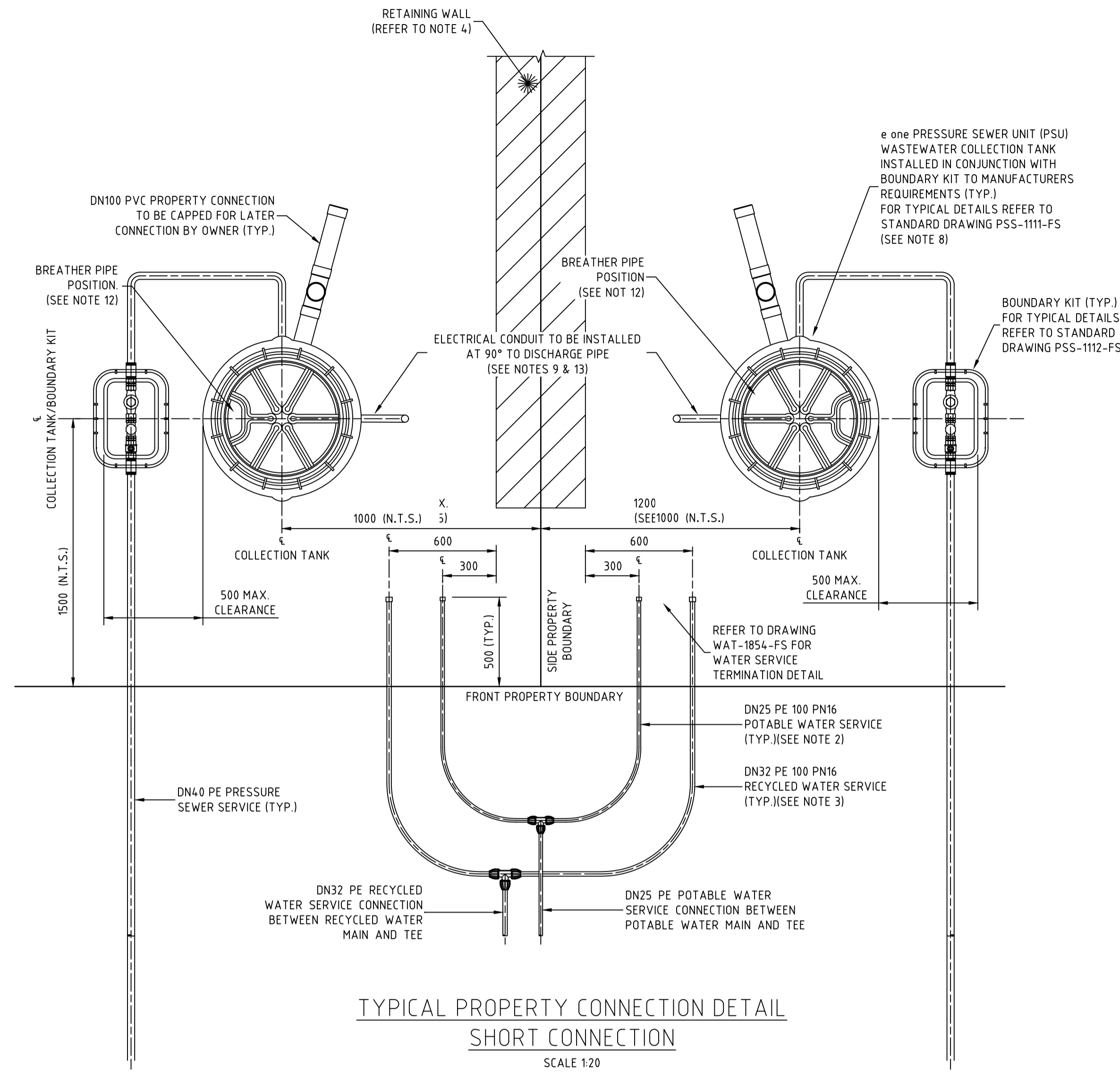
**adw Johnson**  
 Hunter Office  
 Unit 7/335 Hillsborough Rd  
 Warners Bay N.S.W. 2282  
 Phone: (02) 4978 5100  
 Fax: (02) 4978 5199  
 email: hunter@adwjohnson.com.au  
 www.adwjohnson.com.au  
 ABN 62 129 445 398

**altogether.**

PROPERTY DESCRIPTION  
**PROPOSED SUBDIVISION  
 BRIDGING RESIDENTIAL - STAGE BR5  
 HUNTLEE**

SURVEYED: Daly.Smith Pty. Ltd.  
 DATUM: GDA94 MGA56 A.H.D.

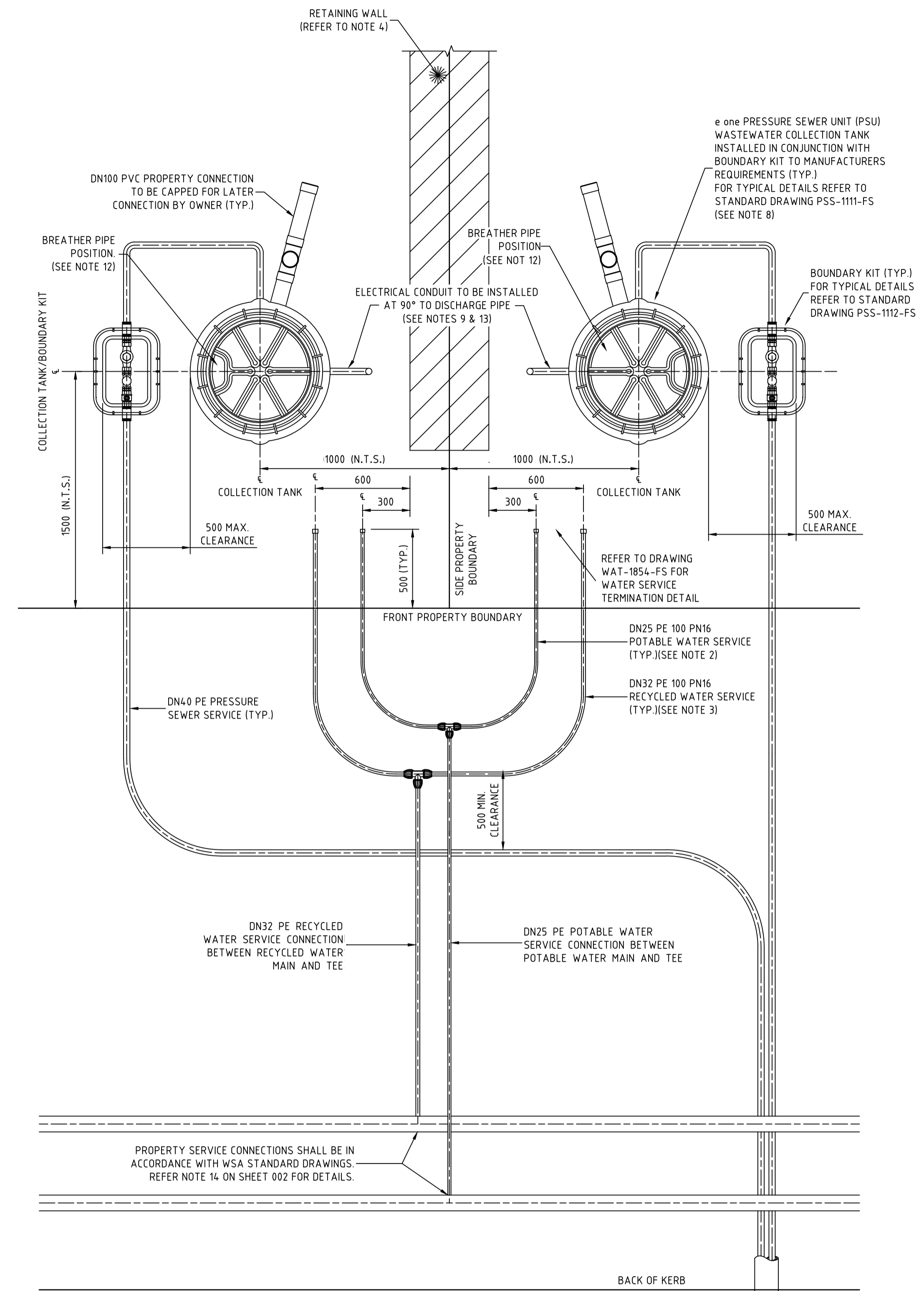
PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	TYPICAL CROSS-SECTION AND PIPEWORK TRENCHING DETAILS		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(BR5)	- WAC -	401	4



TYPICAL PROPERTY CONNECTION DETAIL  
SHORT CONNECTION  
SCALE 1:20

NOTES:

- PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS (SYDNEY WATER VERSION) (SUPPLEMENT TO WSA 03-2011).
- DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- DN25 PE100 PN16 RECYCLED WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT, SERVICES ARE TO BE OFFSET FROM THE PROPERTY BOUNDARY.
- WHERE SERVICE CONNECTIONS ARE LOCATED ADJACENT TO TELSTRA PITS/ELECTRICAL PILLARS, A MINIMUM CLEARANCE OF 200mm BETWEEN PITS AND SERVICE PIPEWORK IS TO BE MAINTAINED.
- MINIMUM BENDING RADIUS FOR PE PIPEWORK IS TO BE 20 x PIPE DIAMETER.
- ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
- PRESSURE SEWER UNIT (PSU) IS TO HAVE 500mm CLEARANCE FROM INTER ALLOTMENT DRAINAGE EASEMENT (IF PRESENT), REAR PROPERTY BOUNDARY RETAINING WALL (IF PRESENT) OR REAR PROPERTY BOUNDARY. PRESSURE SEWER UNIT (PSU) IS TO HAVE 2150mm CLEARANCE FROM BUILDING STRUCTURES.
- Ø25 ELECTRICAL CONDUIT IS TO EXTEND FROM CONNECTION WITH PRESSURE SEWER UNIT (PSU) TO NOM. 500mm INSIDE FRONT PROPERTY BOUNDARY AND BE CAPPED. ELECTRICAL CONDUIT IS TO BE HEAVY DUTY ORANGE. ALL CONDUIT BENDS ARE TO BE LARGE RADIUS SWEEP BENDS.
- FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-FS.
- FOR ALTERNATE TANK AND BOUNDARY CONFIGURATIONS, AND DETAILS FOR TANKS INSTALLED ON PROPERTIES WITH BATTERS AND RETAINING WALLS, REFER TO FLOW SYSTEMS STANDARD DRAWINGS FSI-SK03A-FS AND FSI-SK03B-FS.
- 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.



TYPICAL PROPERTY CONNECTION DETAIL  
LONG CONNECTION  
SCALE 1:20

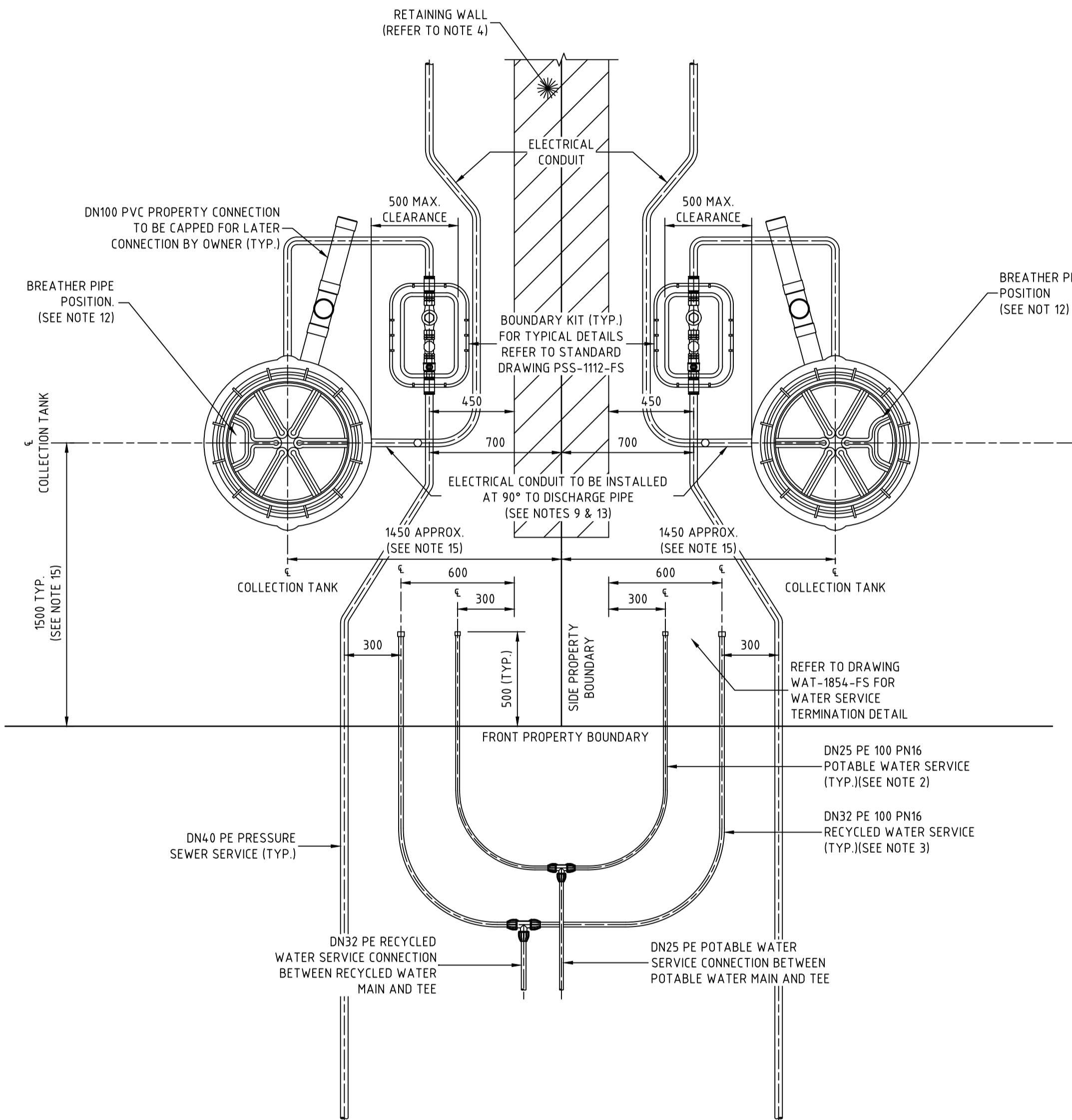
**WORK AS CONSTRUCTED**  
THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 05/05/2026 OF THE WORK-AS-CONSTRUCTED, BUT THE POSITION OF THE WORK RELATIVE TO OTHER STRUCTURES OR BOUNDARIES IS APPROXIMATE ONLY AND HAS NOT BEEN VERIFIED BY PRECISE SURVEY COMPANY ADW Johnson Pty Ltd  
NAME BASS RANDALL NAME  
SIGNED [Signature] DATE 12/05/2026 SIGNED [Signature] 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  
PL 77.635m



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.		<b>Hunter Office</b> Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	<b>PROPOSED SUBDIVISION</b> BRIDGING RESIDENTIAL - STAGE BR5 HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	TYPICAL PROPERTY CONNECTION DETAILS SHEET 1	240037(BR5)	- WAC -	402	4
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.									
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.									
0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.									
1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED Daly.Smith Pty. Ltd.	DATUM GDA94 MGA56 A.H.D.	PROJECT No. 240037(BR5)	DISCIPLINE - WAC -	NUMBER 402	REV. 4	
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.									
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.									
4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.									



TYPICAL NARROW LOTS AND TOWNHOUSE PROPERTY CONNECTION DETAIL

SCALE 1:20

**WORK AS CONSTRUCTED**

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COMPANY: adw Johnson Pty Ltd

NAME: BASS RANDALL

SIGNED: [Signature] DATE: 12/05/2026

REGISTERED SURVEYOR

**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

**NOTES:**

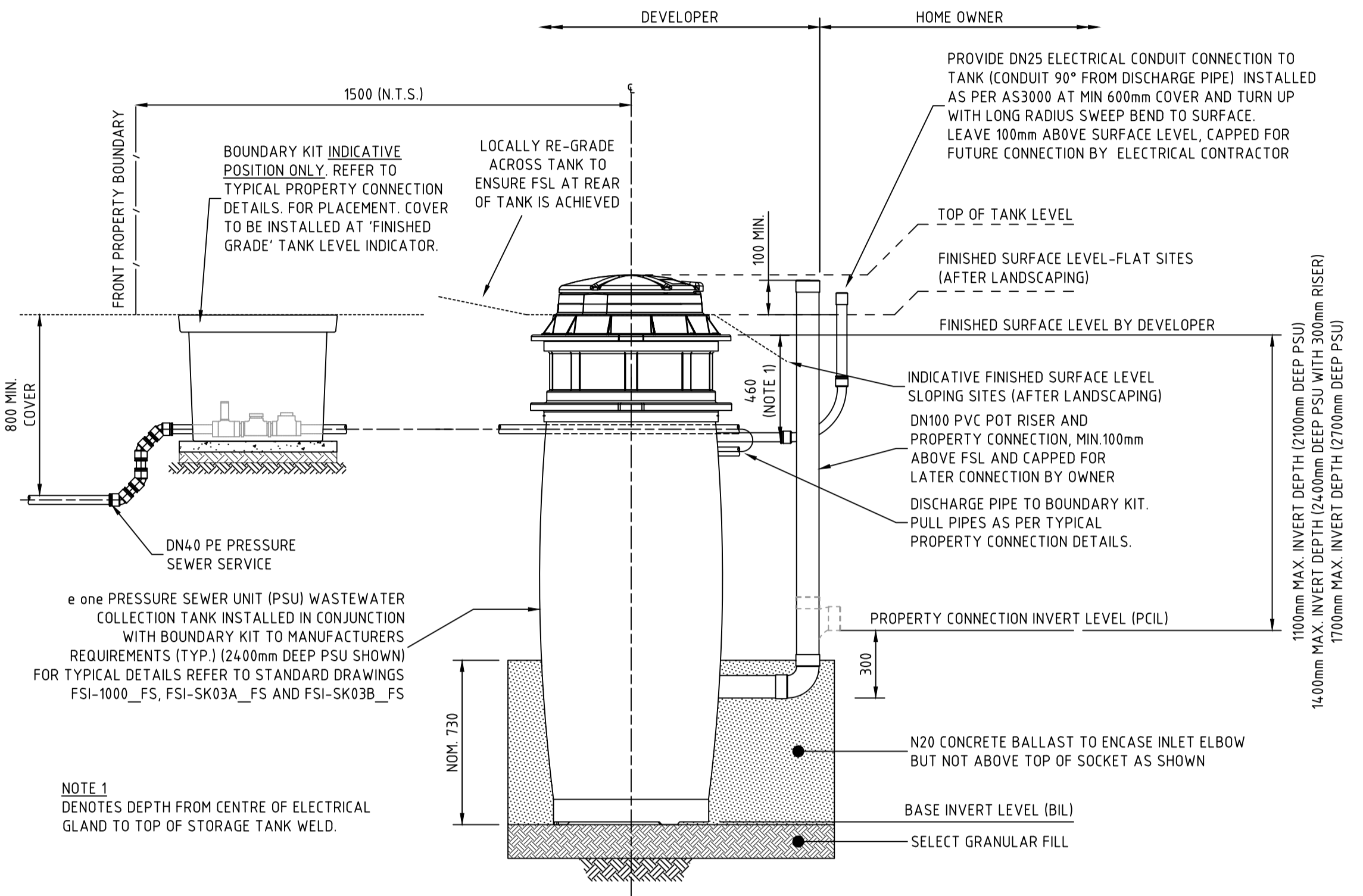
- PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS (SYDNEY WATER VERSION) (SUPPLEMENT TO WSA 03-2011).
- DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- DN25 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 BREATHING PIPE LOCATION IS ON THE DOWNSLOPE SIDE OF THE BLOCK WHERE POSSIBLE.
- CONTRACTOR TO INSTALL ELECTRICAL CONDUIT CONNECTION: 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.



**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	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>PROPOSED SUBDIVISION BRIDGING RESIDENTIAL - STAGE BR5 HUNTLEE</p>	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		240037(BR5)	- WAC -	403	4
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.				TYPICAL PROPERTY CONNECTION DETAILS SHEET 2					
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.				DISCIPLINE					
0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.				NUMBER					
1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.				REV.					
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	DAUM								
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	GDA94 MGA56 A.H.D.								
4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.	SURVEYED								
DESIGN FILE N:\240037\DWG\Water & Sewer\Stage BR5 Water and Sewer\X-240037(BR5)-WAT-DESIGN.dwg								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		Daly.Smith Pty. Ltd.		240037(BR5) - WAC - 403		4	

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 COLLECTION TANK	TANK FSL	BASE IL	CONNECTION IL	TANK TYPE	TANK LOCATION	EASTING	NORTHING				
501	50.83	50.55	48.70	49.45	2100	FRONT	344185.85	6384410.64	50.92	49.55	0.10	
502	50.86	50.58	48.73	49.48	2100	FRONT	344184.15	6384397.55	50.90	49.52	0.04	
503	50.75	50.47	48.62	49.37	2100	FRONT	344182.55	6384385.15	50.78	49.40	0.03	
504	50.65	50.37	48.52	49.27	2100	FRONT	344181.21	6384374.74	50.65	49.27	0.00	
505	50.68	50.40	48.55	49.30	2100	FRONT	344178.52	6384353.91	50.66	49.28	-0.02	
506	50.89	50.61	48.76	49.51	2100	FRONT	344176.75	6384340.23	50.80	49.42	-0.09	
507	50.33	50.05	48.20	48.95	2100	FRONT	344173.60	6384315.79	51.38	50.00	1.05	
508	51.54	51.26	49.41	50.16	2100	FRONT	344172.02	6384303.62	51.56	50.19	0.03	
509	51.73	51.45	49.60	50.35	2100	FRONT	344170.68	6384293.21	51.78	50.40	0.05	
510	51.94	51.66	49.81	50.56	2100	FRONT	344169.34	6384282.79	51.96	50.59	0.03	
511	53.16	52.88	51.03	51.78	2100	FRONT	344166.06	6384257.44	53.19	51.81	0.03	
512	57.93	57.65	55.80	56.55	2100	FRONT BATTER	344139.06	6384198.25	57.97	56.59	0.04	
513	56.78	56.50	54.65	55.40	2100	FRONT BATTER	344140.98	6384213.12	56.79	55.41	0.01	
514	55.78	55.50	53.65	54.40	2100	FRONT BATTER	344142.58	6384225.52	55.79	54.42	0.02	
515	54.88	54.60	52.75	53.50	2100	FRONT BATTER	344143.95	6384236.12	54.91	53.53	0.03	
516	54.73	54.45	52.60	53.35	2100	FRONT BATTER	344144.23	6384238.29	54.74	53.37	0.02	
517	53.25	52.97	51.12	51.87	2100	FRONT BATTER	344147.00	6384259.74	53.29	51.92	0.05	
518	52.53	52.25	50.40	51.15	2100	FRONT BATTER	344148.73	6384273.12	52.59	51.22	0.07	
519	51.48	51.20	49.35	50.10	2100	FRONT BATTER	344150.66	6384297.77	51.47	50.09	-0.01	
520	51.93	51.65	49.80	50.55	2100	FRONT BATTER	344128.09	6384300.68	51.96	50.59	0.04	
521	52.00	51.72	49.87	50.62	2100	FRONT BATTER	344126.11	6384300.94	51.98	50.60	-0.02	
522	52.35	52.07	50.22	50.97	2100	FRONT BATTER	344113.71	6384302.54	52.33	50.96	-0.01	
523	52.90	52.62	50.77	51.52	2100	FRONT	344093.54	6384305.15	52.93	51.56	0.04	
524	54.03	53.75	51.90	52.65	2100	FRONT BATTER	344088.23	6384280.94	54.02	52.65	0.00	
525	55.19	54.91	53.06	53.81	2100	FRONT BATTER	344086.50	6384267.55	55.24	53.87	0.06	
526	56.19	55.91	54.06	54.81	2100	FRONT BATTER	344084.77	6384254.16	56.20	54.82	0.01	
527	56.86	56.58	54.73	55.48	2100	FRONT BATTER	344083.45	6384243.93	56.90	55.52	0.04	
528	57.72	57.44	55.29	56.04	2400	FRONT BATTER	344082.08	6384233.33	57.76	56.08	0.04	
529	58.53	58.25	56.40	57.15	2100	FRONT BATTER	344080.48	6384220.93	58.58	57.20	0.05	
530	59.50	59.22	57.37	58.12	2100	FRONT BATTER	344078.56	6384206.06	59.55	58.17	0.05	
531	59.58	59.30	57.45	58.20	2100	FRONT BATTER	344059.52	6384208.52	59.57	58.20	0.00	
532	58.73	58.45	56.60	57.35	2100	FRONT BATTER	344061.21	6384221.60	58.76	57.38	0.03	
533	57.78	57.50	55.65	56.40	2100	FRONT BATTER	344063.04	6384235.79	57.78	56.40	0.00	
534	57.08	56.80	54.95	55.70	2100	FRONT BATTER	344064.41	6384246.39	57.12	55.75	0.05	
535	56.28	56.00	54.15	54.90	2100	FRONT BATTER	344065.73	6384256.62	56.31	54.93	0.03	
536	55.10	54.82	52.97	53.72	2100	FRONT BATTER	344067.46	6384270.01	55.15	53.78	0.06	
537	54.08	53.80	51.95	52.70	2100	FRONT BATTER	344069.21	6384283.58	54.13	52.75	0.05	
538	53.50	53.22	51.37	52.12	2100	FRONT	344069.94	6384308.19	53.55	52.17	0.05	
539	53.72	53.44	51.59	52.34	2100	FRONT	344050.04	6384310.76	53.75	52.37	0.03	
540	53.84	53.56	51.71	52.46	2100	FRONT	344037.64	6384312.36	53.90	52.53	0.07	
541	53.86	53.58	51.73	52.48	2100	FRONT	344035.66	6384312.62	53.90	52.52	0.04	
542	64.42	64.14	62.29	63.04	2100	FRONT	344000.26	6384080.41	64.44	63.07	0.03	
543	63.91	63.63	61.78	62.53	2100	FRONT	343998.66	6384067.51	63.92	62.55	0.02	
544	63.26	62.98	61.13	61.88	2100	FRONT BATTER	344060.55	6384070.89	63.27	61.90	0.02	
545	63.04	62.76	60.91	61.66	2100	FRONT BATTER	344062.61	6384087.47	63.06	61.68	0.02	
546	62.71	62.43	60.58	61.33	2100	FRONT	344081.69	6384085.28	62.76	61.38	0.05	
547	62.92	62.64	60.79	61.54	2100	FRONT	344079.59	6384068.51	62.96	61.58	0.04	
901						INDUSTRIAL LOT						
902						INDUSTRIAL LOT						
801	64.51	64.23	62.38	63.13	2100	FRONT	344012.1128	6384127.461	64.53	63.15	0.02	
802	64.41	64.13	62.28	63.03	2100	FRONT	344022.2059	6384128.463	64.40	63.02	-0.01	
803	64.16	63.88	62.03	62.78	2100	FRONT	344025.2017	6384128.09	64.14	62.77	-0.01	
804	63.68	63.40	61.55	62.30	2100	FRONT	344036.0985	6384126.732	63.64	62.27	-0.03	
805	63.55	63.27	61.42	62.17	2400	FRONT	344039.0944	6384126.359	63.52	62.14	-0.03	
806	63.05	62.77	60.92	61.67	2100	FRONT	344049.9912	6384125.002	63.08	61.71	0.04	
807	62.91	62.63	60.78	61.53	2100	FRONT	344052.987	6384124.629	62.93	61.55	0.02	
808	62.63	62.35	60.50	61.25	2100	FRONT	344059.6861	6384121.779	62.61	61.24	-0.01	



PRESSURE SEWER SERVICE CONNECTION  
TYPICAL SECTIONAL ELEVATION  
SCALE 1:20

WASTEWATER COLLECTION TANK COUNT

TANK SIZE	NUMBER OF
2100	54
2400	1
2700	

**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.

COMPANY: ADW Johnson Pty Ltd

NAME: BASS RANDALL

SIGNED: [Signature] DATE: 12/05/2026

REGISTERED SURVEYOR

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

PM: 20029

E: 345612.942

N: 6382878.917

Co-Ord System: MGA Ground

MGA Datum: GDA94

MGA Zone: 56

RL: 77.675m



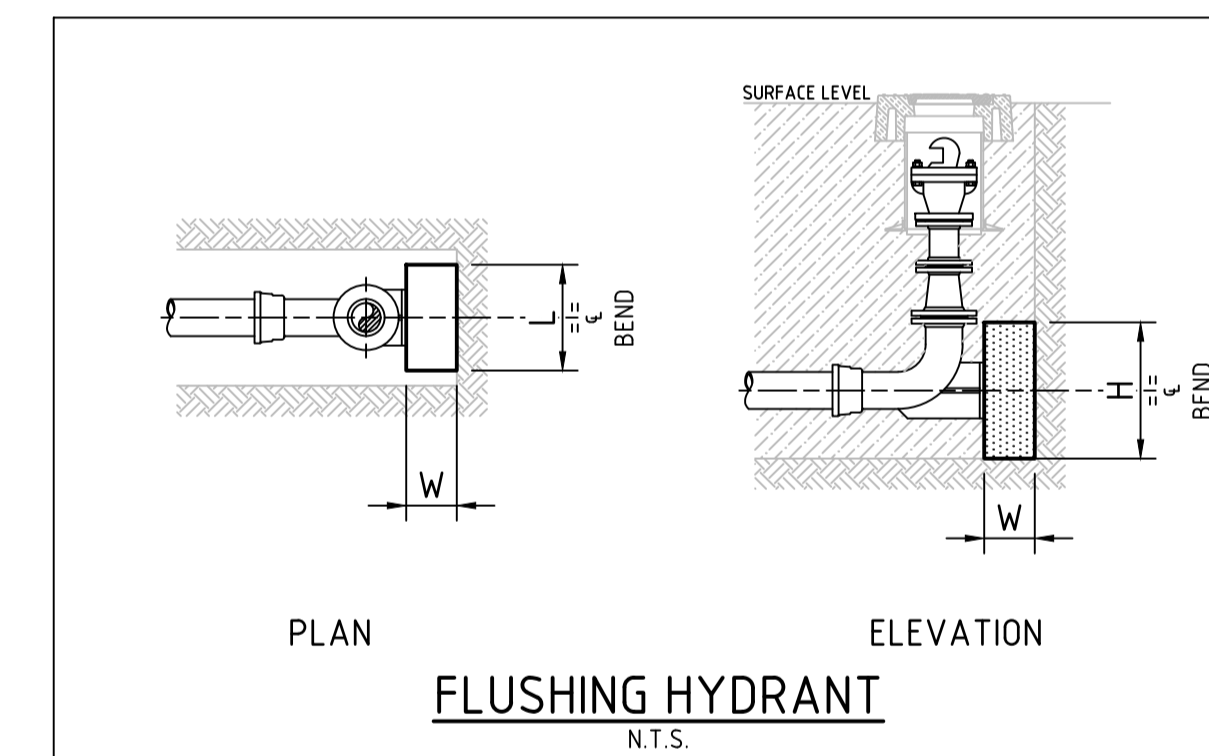
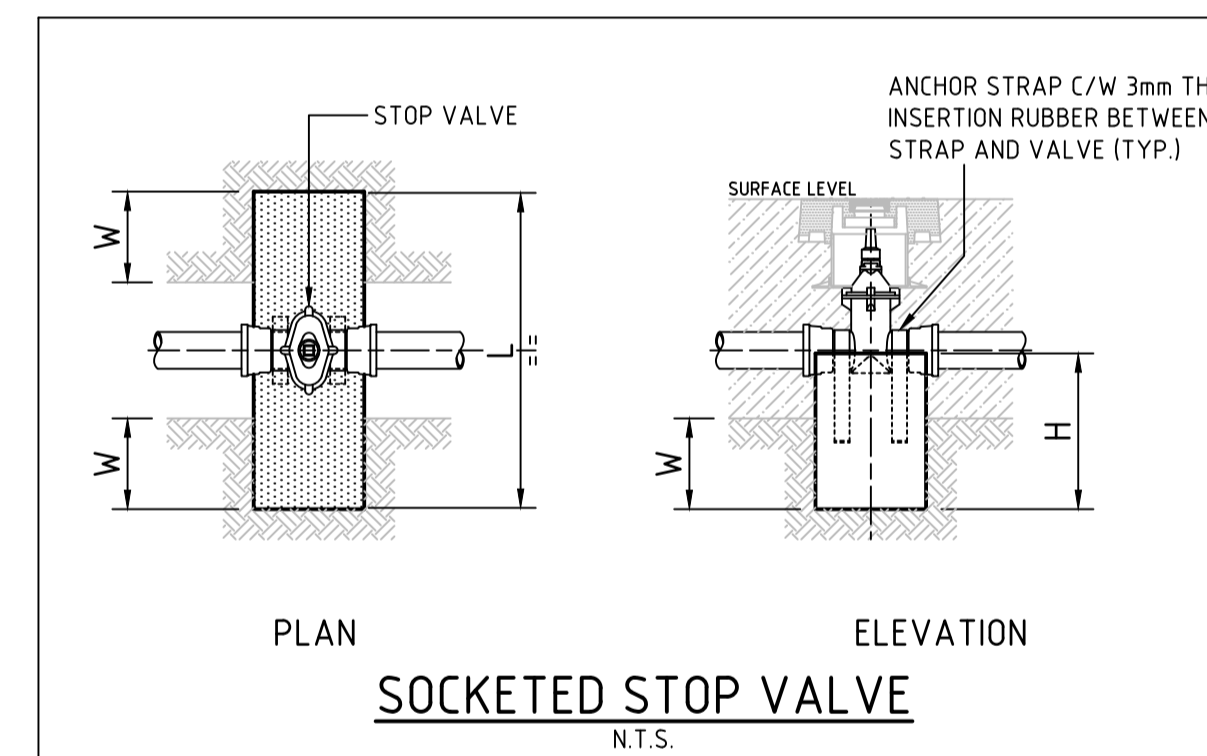
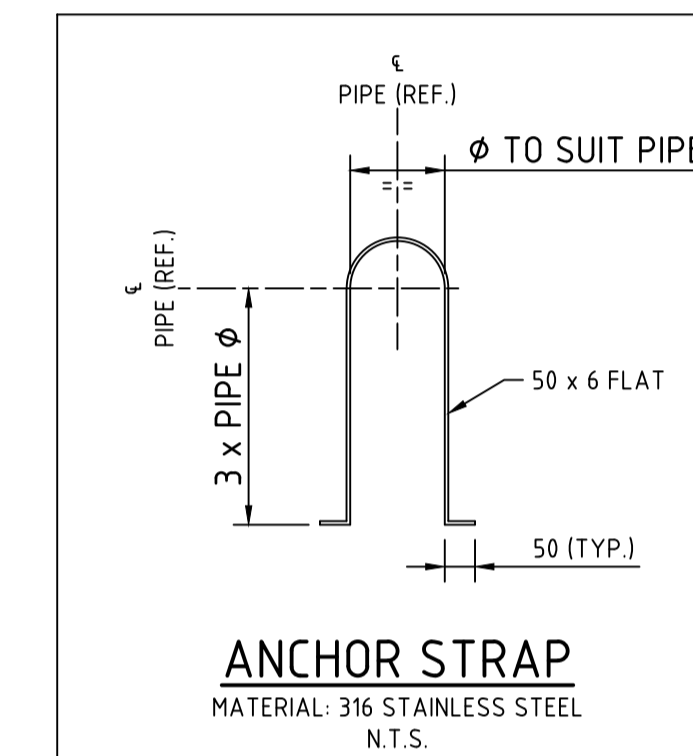
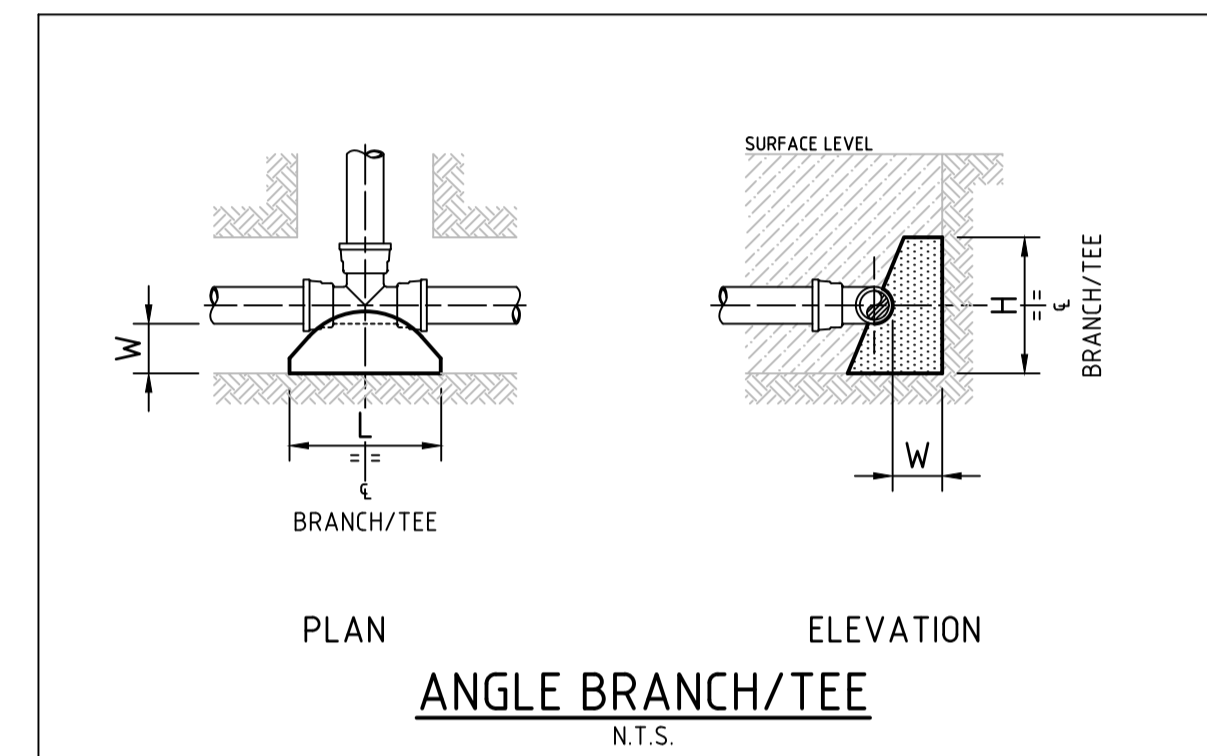
**WORK AS CONSTRUCTED**

<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>B</td><td>09.05.2025</td><td>INITIAL ISSUE</td><td>I.B.</td><td>C.H.</td><td>C.H.</td><td>C.B.</td></tr> <tr><td>C</td><td>12.05.2025</td><td>INITIAL ISSUE</td><td>T.A.</td><td>C.H.</td><td>C.H.</td><td>C.B.</td></tr> <tr><td>D</td><td>26.06.2025</td><td>AMENDED INITIAL ISSUE</td><td>I.B.</td><td>C.H.</td><td>C.H.</td><td>C.B.</td></tr> <tr><td>0</td><td>25.07.2025</td><td>CONSTRUCTION ISSUE</td><td>I.B.</td><td>C.H.</td><td>C.H.</td><td>C.B.</td></tr> <tr><td>1</td><td>10.09.2025</td><td>AMENDED CONSTRUCTION ISSUE</td><td>I.B.</td><td>C.H.</td><td>C.H.</td><td>C.B.</td></tr> <tr><td>2</td><td>22.09.2025</td><td>AMENDED CONSTRUCTION ISSUE</td><td>I.B.</td><td>C.H.</td><td>C.H.</td><td>C.B.</td></tr> <tr><td>3</td><td>25.09.2025</td><td>AMENDED CONSTRUCTION ISSUE</td><td>I.B.</td><td>C.H.</td><td>C.H.</td><td>C.B.</td></tr> <tr><td>4</td><td>12.05.2026</td><td>WORK AS CONSTRUCTED</td><td>T.A.</td><td>C.H.</td><td>C.H.</td><td>C.B.</td></tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.	D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.	0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.	4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.	<p>SCALES</p> <p>0 0.5 1.0m</p> <p>SCALE: 1:20 (FULL)</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</p> <p>PROPOSED SUBDIVISION BRIDGING RESIDENTIAL - STAGE BR5 HUNTLEE</p>	<p>PROJECT</p> <p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>PLAN TITLE</p> <p>WASTE WATER COLLECTION DETAILS</p>	<p>PROJECT No. 240037(BR5)</p> <p>DISCIPLINE - WAC -</p> <p>NUMBER 404</p> <p>REV. 4</p>
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<p>DESIGN FILE N:\240037\DWG\Water &amp; Sewer\Stage BR5 Water and Sewer\X-240037(BR5)-WAT-DESIGN.dwg</p> <p>ALL DIMENSIONS ARE IN METRES. DO NOT SCALE</p>				<p>SURVEYED</p> <p>Daly.Smith Pty. Ltd.</p>	<p>DATUM</p> <p>GDA94 MGA56 A.H.D.</p>	<p>PROJECT No. 240037(BR5)</p> <p>DISCIPLINE - WAC -</p> <p>NUMBER 404</p> <p>REV. 4</p>																																																																

**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 (m2)	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 x 90° HORIZONTAL BEND	100	1500	25.50	0.26	0.55	0.47	0.30
3	DN100 x 45° HORIZONTAL BEND	100	1500	7.50	0.08	N	N	0.30
4	DN100 x 22.5° HORIZONTAL BEND	100	1500	7.50	0.08	N	N	0.30
5	DN100 x 11.25° HORIZONTAL BEND	100	1500	7.50	0.08	N	N	0.30
6	DN100 x 6° HORIZONTAL BEND	100	1500	7.50	0.08	N	N	0.30
7	DN100 SOCKETED STOP VALVE	100	1500	18.00	0.18	1.05	0.44	0.30
8	DN100 FLUSHING HYDRANT	100	1500	18.00	0.18	0.45	0.40	0.30
9	DN150 x DN150 EQUAL TEE	100	1500	37.50	0.38	0.50	0.75	0.30
10	DN150 x DN100 REDUCING TEE	100	1500	18.00	0.18	0.40	0.45	0.30
11	DN150 x DN100 TAPER	100	1500	19.50	0.20	1.05	0.70	0.30
12	DN150 x 90° HORIZONTAL BEND	100	1500	52.50	0.53	0.60	0.88	0.30
13	DN150 x 22.5° HORIZONTAL BEND	100	1500	15.00	0.15	0.34	0.45	0.30
14	DN150 x 11.25° HORIZONTAL BEND	100	1500	7.50	0.08	N	N	0.30
15	DN150 SOCKETED STOP VALVE	100	1500	37.50	0.38	1.05	0.46	0.30
16	DN150 FLUSHING HYDRANT	100	1500	37.50	0.38	0.50	0.76	0.30
17	DN200 x DN150 REDUCING TEE	100	1500	64.50	0.65	0.85	0.76	0.30
18	DN200 x DN100 REDUCING TEE	100	1500	37.50	0.38	0.65	0.58	0.30
19	DN200 x DN150 TAPER	100	1500	18.00	0.18	0.45	0.40	0.30
20	DN200 x DN100 TAPER	100	1500	27.00	0.27	1.20	0.78	0.30
21	DN200 x DN150 TAPER	100	1500	46.50	0.47	1.20	0.78	0.30
22	DN200 SOCKETED STOP VALVE	100	1500	64.50	0.65	1.40	0.62	0.40
23	DN200 FLUSHING HYDRANT	100	1500	64.50	0.65	0.85	0.77	0.30
24	DN200 x 90° HORIZONTAL BEND	100	1500	90.00	0.90	0.95	0.95	0.30
25	DN300 x DN300 EQUAL TEE	100	1500	141.00	1.41	1.00	1.41	0.40
26	DN300 x DN100 REDUCING TEE	100	1500	18.00	0.18	0.40	0.45	0.40
27	DN300 x DN200 TAPER	100	1500	76.50	0.77	1.35	0.90	0.30
28	DN300 x DN150 TAPER	100	1500	103.50	1.04	1.35	0.90	0.30
29	DN300 SOCKETED STOP VALVE	100	1500	141.00	1.41	1.65	0.72	0.45
30	DN300 FLUSHING HYDRANT	100	1500	141.00	1.41	1.00	1.41	0.40
31	DN300 x DN150 REDUCING TEE	100	1500	37.50	0.38	0.50	0.75	0.40



**WORK AS CONSTRUCTED**  
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COMPANY ADW Johnson Pty Ltd COMPANY  
NAME BASS RANDALL NAME  
SIGNED [Signature] DATE 12/05/2026 SIGNED [Signature] 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**

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
B	09.05.2025	INITIAL ISSUE	I.B.	C.H.	C.H.	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>PROPOSED SUBDIVISION BRIDGING RESIDENTIAL - STAGE BR5 HUNTLEE</p>	<p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>THRUST BLOCK DETAILS</p>	<p>240037(BR5)</p>	<p>- WAC -</p>	<p>405</p>	<p>4</p>
C	12.05.2025	INITIAL ISSUE	T.A.	C.H.	C.H.	C.B.									
D	26.06.2025	AMENDED INITIAL ISSUE	I.B.	C.H.	C.H.	C.B.									
0	25.07.2025	CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.									
1	10.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.									
2	22.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.									
3	25.09.2025	AMENDED CONSTRUCTION ISSUE	I.B.	C.H.	C.H.	C.B.									
4	12.05.2026	WORK AS CONSTRUCTED	T.A.	C.H.	C.H.	C.B.									

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ALL DIMENSIONS ARE IN METRES. DO NOT SCALE  
Plotted By: tima Plot Date: 02/06/26 - 08:53 Cad File: \\adw-svr4\adw-data\240072\DWG\Water & Sewer\Stage BR5-WAC\240037(BR5)-WAC-405.dwg

Point Table with columns: Point #, Easting, Northing, Elevation, Code. Contains 93 rows of data.

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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

Revision table with columns: REV., DATE, AMENDMENT. Contains 4 rows of revision history.

Check/Design/Verify table with columns: DRAWN, CHECK, DESIGN, VERIFY, SCALES. Contains 4 rows of verification details.

adw Johnson logo and contact information for Hunter Office.

altogether. logo and CLIENT information.

PROPERTY DESCRIPTION table with columns: SURVEYED, DATUM, PROJECT, PLAN TITLE, FITTINGS TABLE.

PROJECT INFORMATION table with columns: PROJECT, PLAN TITLE, PROJECT No., DISCIPLINE, NUMBER, REV.