REV. DATE AMENDMENT

INITIAL ISSUE

G.S. G.S. G.S. G.S. G.S. G.S. C.B. G.S. C.B. G.S. C.B. G.S. C.B. G.S. C.B. G.S. C.B. B 08.11.2022 CHANGE TANK TYPE FOR LOT 4129 C 22.11.2022 CLIENT COMMENTS N.C. O 15.02.2023 FOR CONSTRUCTION C.B. C.B. C.S. C.S. 13.03.2023 FOR CONSTRUCTION 03.05.2023 FOR CONSTRUCTION 09.05.2023 FOR CONSTRUCTION WORK AS CONSTRUCTED ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCAI DESIGN FILE N: $\240037\DWG\Water \& Sewer\Stage 41 Water and Sewer\x-240037(41)-huntlee-water.dwg$

Johnson ABN 62 129 445 398

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

CLIENT

PROPOSED SUBDIVISION STAGE 41 HUNTLEE



LOCALITY SKETCH NOT TO SCALE

	DRAWING INDEX
DRAWING NUMBER	DRAWING TITLE
240037(41)-WAC-001	COVER SHEET, LOCALITY PLAN & DRAWING INDEX
240037(41)-WAC-002	GENERAL NOTES
240037(41)-WAC-003	OVERALL SITE PLAN
240037(41)-WAC-101	POTABLE WATER DETAIL PLAN - SHEET 1
240037(41)-WAC-102	POTABLE WATER DETAIL PLAN - SHEET 2
240037(41)-WAC-103	POTABLE WATER DETAIL PLAN - SHEET 3
240037(41)-WAC-201	RECYCLED WATER DETAIL PLAN - SHEET 1
240037(41)-WAC-202	RECYCLED WATER DETAIL PLAN - SHEET 2
240037(41)-WAC-203	RECYCLED WATER DETAIL PLAN - SHEET 3
240037(41)-WAC-301	PRESSURE SEWER DETAIL PLAN - SHEET 1
240037(41)-WAC-302	PRESSURE SEWER DETAIL PLAN - SHEET 2
240037(41)-WAC-303	PRESSURE SEWER DETAIL PLAN - SHEET 3
240037(41)-WAC-401	TYPICAL PIPEWORK TRENCHING DETAIL
240037(41)-WAC-402	TYPICAL PROPERTY CONNECTION DETAILS - SHEET 1
240037(41)-WAC-403	TYPICAL PROPERTY CONNECTION DETAILS - SHEET 2
240037(41)-WAC-404	WASTE WATER COLLECTION TANK LEVEL DETAILS
240037(41)-WAC-405	THRUST BLOCK DETAILS
240037(41)-WAC-406	FITTINGS TABLE

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/08/2023 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 MATHEW DAVID LONDON DATE 25/08/2023 SIGNED

REGISTERED SURVEYOR

DATE/..../.... CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

Co-Ord System: MGA Ground E: 345 612, 942 MGA Datum: GDA94 N: 6 382 878. 917 MGA Zone: 56 RL: 77.675m

APPROVED FOR CONSTRUCTION BY ADW Johnson Pty Ltd

Date Approved: 15-02-2023

WORK AS CONSTRUCTED

Plot Date: 19/09/23 - 07:30 Cad File: C:\Users\iainb\AppData\Local\Temp\AcPublish_17092\240037(41)-WAC-001.dwg

DRAWN CHECK DESIGN VERIFY SCALES

PRESSURE SEWER NOTES:

CLEARANCE TABLE ABJACENT.

- 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. BUTT FUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE GEORG FISCHER PIPING SYSTEMS BUTT FUSION PRODUCT RANGE. ELECTROFUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE PLASSON "POLYETHYLENE PIPING SYSTEMS"PRODUCT RANGE.
- 3. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY
 - CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
- 4. PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007 AND ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA.
- 5. ALL POLYETHYLENE MAINS ≤ DN200 SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS ALL POLYETHYLENE MAINS ≥ DN200 SHALL BE JOINED USING BUTTWELD JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- 6. MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED. 600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER AND WATER MAINS. MINIMUM PIPE COVER SHALL BE 800mm IN FOOTWAYS AND 1000mm IN ROADWAYS. MAXIMUM PIPE COVER SHALL GENERALLY BE 1500mm. WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL PRESSURE SEWER AND RECYCLED WATER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE
- 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).
- ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSAA PRODUCT SPECIFICATION WSA-PS350 AND WSA-PS351.
- 10. ALL BENDS SHALL BE <u>ELECTROFUSION OR BUTT WELD SWEEP BENDS</u>. FABRICATED BENDS SHALL NOT BE USED IN LIEU. KNUCKLE ELBOWS ARE NOT PERMITTED.
- 11. MINIMUM BENDING RADIUS FOR PN16 PE100 (SDR11) SHALL BE 20 x DN. (i.e. DN400 : R8.0m, DN250 : R5.0m, DN200 : R4.0m, DN160 : R3.2m, DN125 : R2.5m, DN90 : R1.8m, DN75 : R1.5m, DN63 : R1.3m, DN50 : R1.0m, DN40 : R0.8m).
- 12. ALL HOUSE SERVICE LATERALS SHALL BE DN40 (PE100 PN16).
- 13. FLUSHING PITS SHALL CONFORM WITH ALTOGETHER STANDARD DRAWINGS. REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION. SMALL MAINS (≤ DN110) http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017A-FS.pdf LARGE MAINS (> DN110)
 - http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017B-FS.pdf
- 14. LOCALISED DEEPENING OF MAINS MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION. THE CONTRACTOR SHALL ENSURE THAT THE AIR VALVE OFFTAKE IS LOCATED AT A HIGH POINT (NATURAL OR ARTIFICIAL) IN THE MAIN (i.e. MAIN SHALL GRADE DOWNWARDS EITHER SIDE OF THE AIR VALVE).
- 15. DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
- 16. ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- 17. DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
- 18. ALL VALVES SHALL BE RESILIENT SEATED SLUICE VALVES (ANTI-CLOCKWISE CLOSING), SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207 AND SHALL COMPLY WITH ALTOGETHER STANDARD DRAWING PSS-1015-FS.
- 19. ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 07-2007 VERSION 1.1.
- 20. FOR LOTS WITH TANKS IN THE REAR. 1 x Ø25mm INSTRUMENTATION CONDUIT (ORANGE) AND 1 x Ø25mm ELECTRICAL CONDUIT (ORANGE)(WITH DRAW WIRES) SHALL BE INSTALLED FROM THE COLLECTION TANK TO WATER METERS. THE CONDUITS SHALL BE LAID IN A COMMON TRENCH WITH THE SEWERAGE AND MAINTAIN A MINIMUM HORIZONTAL CLEARANCE OF 400mm. (REFER TO ALTOGETHER STANDARD DRAWINGS FOR SETOUT DIMENSIONS).
- 21. THE CONSTRUCTOR SHALL PROVIDE ALTOGETHER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED AND CONFIRMATION IS PROVIDED BY THE ALTOGETHER REPRESENTATIVE.
- 22. UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
- 23. PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE
- 24. BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED
- 25. THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE PRESSURE SEWER CODE OF AUSTRALIA (CLAUSE 21.3.4) ARE:
 - PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING. NON-TRAFFICABLE

PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900mm OF FILL AND EACH 100 LINEAL METRES OF PIPE.

- 26. BOUNDARY KITS (COMPLETE) SHALL BE NOV SUPPLIED (NOV PSS-BK4). e one COLLECTION TANK (ESD 20-0032/ESD 20-0033) SHALL BE INSTALLED WITH BOUNDARY KIT (REFER ALTOGETHER STANDARD DRAWINGS PSS-1112-FS AND PSS-1113-FS). PUMP TO BE INSTALLED BY OTHERS.
- 27. ALL MAINS (UP TO THE BOUNDARY KIT) SHALL BE PRESSURE TESTED TO 1600 kPa. ALL LINES FROM THE WASTEWATER COLLECTION TANK TO THE MANUAL ISOLATION VALVE WITHIN THE BOUNDARY KIT TO BE PRESSURE TESTED TO 1000KPa.
- 28. ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- 29. SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.

DESIGN FILE N:\240037\DWG\Water & Sewer\Stage 41 Water and Sewer\x-240037(41)-huntlee-water.dwg

- ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.
- 31. PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
- 32. WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.
- 33. ELECTRICAL GLAND CONNECTION SUPPLIED LOOSE WITH EACH SEWER POT IS TO BE INSTALLED BY THE CIVIL CONTRACTOR AND ELECTRICAL CONDUIT ATTACHED TO THE TANK FOR FUTURE ELECTRICAL WIRING.

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.
- ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW, SHALL CONFORM TO THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS.
- 4. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY
- CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
- THE CONSTRUCTOR SHALL VERIFY WITH THE SITE SUPERVISOR THE POSITION AND LEVEL OF ALL EXISTING AND PROPOSED BOUNDARIES PERTINENT TO THE INFRASTRUCTURE INSTALLATIONS.
- MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED. 600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER AND WATER MAINS. MINIMUM PIPE COVER SHALL BE 600mm IN FOOTWAYS (TYPE B EMBEDMENT: WAT-1202-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.
- ALL POTABLE WATERMAINS TO BE BLUE PVC-M (PN16).
 - ALL RECYCLED WATERMAINS SHALL BE LILAC PVC-M (PN16). DIFFERENTIATION OF POTABLE AND RECYCLED WATER SYSTEMS SHALL BE AS PER TABLE 4.1 WSA03-2011 WITH BOTH SERVICES BEING CLASSIFIED AS 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.
- 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 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
- 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).
- ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- 20. WATER QUALITY TESTING SHALL BE IN ACCORDANCE WITH WSA 03-2011-3.1(SYDNEY WATER EDITION-2014. CLAUSE 19.7).
- 21. THE CONSTRUCTOR SHALL PROVIDE HUNTLEE WATER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED AND CONFIRMATION IS PROVIDED BY THE ALTOGETHER REPRESENTATIVE.
- 22. UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
- 23. PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE
- 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
- 25. MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY WSA03-2011 (SYDNEY WATER EDITION 2014) (CLAUSE 19.3.5):
 - 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.
- 29. WHERE THE PIPE GRADE EXCEEDS 5%, TRENCHSTOPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH WAT-1209 AND WAT-1210 AT THE SPACING OF WHERE PIPE GRADES EXCEED 15%, CONCRETE BULKHEADS WILL BE CONSTRUCTED AT SPACING AS PER TABLE 7.5 OF WSA03-2001 SYDNEY WATER EDITION 2014.

ALTOGETHER STANDARD DRAWINGS CAN BE FOUND AT THE FOLLOWING ADDRESS: https://askus.altogethergroup.com.au/hc/en-us/articles/900004827263-Standard-drawings-for-land-developers-

GENERAL NOTES:

- THIS DRAWING SET SHALL BE READ IN CONJUNCTION WITH CESSNOCK CITY COUNCIL STANDARDS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA AND OTHER ASSOCIATED DRAWINGS AND TECHNICAL SPECIFICATIONS.
- THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF WORK AND SHALL REPAIR ANY DAMAGE CAUSED TO SUCH SERVICES DURING THE COURSE OF WORKS. ANY SERVICE LOCATIONS SHOWN IN THIS DRAWING SET ARE INDICATIVE ONLY.
- 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 RETWEEN PIPELINES AND LINDERGROUND SERVICES

CLEARANCES DET WEEN PIP	LLINLS AND	ONDENGROOI	ND SERVICES
UTILITY		ORIZONTAL NCE (mm)	MINIMUM VERTICAL
(EXISTING OR PROPOSED SERVICE)	NEW MA	AIN SIZE	CLEARANCE (mm)
	≤ DN200	≥ DN200	
WATER MAINS > DN375	600	600	300
WATER MAINS < DN375	300 4	600	150
GAS MAINS	300 4	600	150
TELECOMMUNICATION CONDUITS AND CABLES	300 4	600	150
ELECTRICITY CONDUITS AND CONDUITS	200	1000	225 ⁸
STORMWATER DRAINS	300 4	600	150 °
SEWERS (GRAVITY)	1000 6 / 600	1000 6 / 600	500 °
SEWERS (PRESSURE AND VACUUM)	600	600	300 °
KERBS	150	6005	150 (WHERE POSSIBLE)

- 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.
- CLEARANCES CAN BE FURTHER REDUCED TO 150mm FOR DISTANCES UP TO 2.0m WHEN PASSING INSTALLATIONS SUCH AS POLES, PITS, AND SMALL STRUCTURES, PROVIDING THE STRUCTURE IS NOT DE-STABILISED IN THE PROCESS.
- 5. CLEARANCES FROM KERBS SHALL BE MEASURED FROM THE NEAREST POINT OF THE KERB. FOR WATER/SEWER < DN 375, CLEARANCES FROM KERBS CAN BE PROGRESSIVELY REDUCED UNTIL THE MINIMUM OF 150mm IS REACHED FOR WATER/SEWER < DN200.
- 6. WHERE A PARALLEL SEWER IS AT MINIMUM VERTICAL CLEARANCE LOWER THAN THE WATER MAIN (500mm), MAINTAIN A MINIMUM HORIZONTAL OF 1000mm. THIS MINIMUM CLEARANCE CAN BE PROGRESSIVELY REDUCED TO 600mm AS THE VERTICAL CLEARANCE IS INCREASED TO 750mm.
- 7. FOR PRESSURE SEWER LATERALS, MINIMUM VERTICAL CLEARANCES MAY BE REDUCED TO 150mm PROVIDING THERE IS NO JOINT IN THE LATERAL WITHIN 500mm OF EITHER SIDE OF THE SERVICE BEING
- CROSSED. 8. AN ADDITIONAL CLEARANCE FROM HIGH VOLTAGE ELECTRICAL INSTALLATIONS SHOULD BE MAINTAINED ABOVE THE CONDUITS OR CABLES TO ALLOW FOR A PROTECTIVE BARRIER AND MARKING TO BE PROVIDED.
- 9. WATER MAINS SHOULD ALWAYS CROSS OVER SEWERS AND STORMWATER DRAINS. FOR CASES WHERE THERE IS NO ALTERNATIVE AND THE MAIN MUST CROSS UNDER THE SEWER, THE DESIGN SHALL NOMINATE AN APPROPRIATE PROTECTION TREATMENT (JOINT-FREE IN THE VICINITY OF THE SEWER).

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

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/08/2023 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 ABW Johnson Pty Ltd MATHEW DAVID LONDON NAME

ORIGIN OF W.A.C. LEVELS

DATE 25/08/2023 SIGNED

PM 20029 Co-Ord System: MGA Ground E: 345 612, 942 MGA Datum: GDA94 N: 6 382 878, 917 MGA Zone: 56 RL: 77.675m

REGISTERED SURVEYOR

APPROVED FOR CONSTRUCTION BY ADW Johnson Pty Ltd Date Approved: 15-02-2023

WORK AS CONSTRUCTED

PROPERTY DESCRIPTION				ABLE WATER, RECY RESSURE SEWER F			
	ED SUBDIVISION STAGE 41 HUNTLEE		PLAN TITLE	GENERAL NOT	ES		
SURVEYED Daly.Smith Pty Ltd	DATUM GDA94 M.G.A. ZONE 56	A.H.D.	PROJECT No. 240037(41)	- WAC	_	NUMBER 002	REV.

DATE/...../....

CONSTRUCTION MANAGER

DRAWN CHECK DESIGN VERIFY SCALES DATE AMENDMENT 09.08.2022 INITIAL ISSUE 08.11.2022 CHANGE TANK TYPE FOR LOT 4129 G.S. C.B. 22.11.2022 CLIENT COMMENTS N.C. G.S. C.B. O 15.02.2023 FOR CONSTRUCTION C.B. G.S. C.B. 13.03.2023 FOR CONSTRUCTION C.B. C.B. G.S. G.S. G.S. C.S. G.S. C.B. 03.05.2023 FOR CONSTRUCTION C.S. 09.05.2023 FOR CONSTRUCTION G.S. C.B. WORK AS CONSTRUCTED

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

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

CLIENT ABN 62 129 445 398

REV. DATE AMENDMENT 09.08.2022 INITIAL ISSUE B 08.11.2022 CHANGE TANK TYPE FOR LOT 4129

C 22.11.2022 CLIENT COMMENTS 0 15.02.2023 FOR CONSTRUCTION 1 13.03.2023 FOR CONSTRUCTION
2 03.05.2023 FOR CONSTRUCTION
3 09.05.2023 FOR CONSTRUCTION WORK AS CONSTRUCTED DESIGN FILE N: $\240037\DWG\Water \& Sewer\Stage 41 Water and Sewer\x-240037(41)-huntlee-water.dwg$

DRAWN CHECK DESIGN VERIFY SCALES G.S. C.B.
G.S. C.B.
G.S. C.B.
G.S. C.B.
G.S. C.B.
G.S. C.B.
G.S. C.B. Bar Scale 1: 1000 ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCAL

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 JOHNSON ABN 62 129 445 398



STAGE 10 SUBDIVISION

> POTABLE WATER, RECYCLED WATER AND PROJECT PROPERTY DESCRIPTION PRESSURE SEWER RETICULATION PROPOSED SUBDIVISION PLAN TITLE STAGE 41 HUNTLEE OVERALL SITE PLAN PROJECT No. 240037(41) -WAC 003 Daly.Smith Pty Ltd GDA94 M.G.A. ZONE 56 A.H.D.

WORK AS CONSTRUCTED THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/08/2023 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 MATHEW DAVID LONDON SIGNED DATE 25/08/2023 SIGNED CONSTRUCTION MANAGER REGISTERED SURVEYOR ORIGIN OF W.A.C. LEVELS

PM 20029 E: 345 612. 942 N: 6 382 878. 917 RL: 77.675m

Co-Ord System: MGA Ground
MGA Datum: GDA 94
MGA Zone: 56

APPROVED FOR CONSTRUCTION BY ADW Johnson Pty Ltd

WORK AS CONSTRUCTED

Date Approved: 15-02-2023

DATE/....../

BEFORE YOU DIG

PLAN

SCALE 1:1000

FOR POTABLE WATER DETAIL PLANS REFER TO DRG-101

🗸 FOR PRESSURE SEWER DETAIL PLANS REFER TO DRG-301 💆

FOR POTABLE WATER DETAIL PLANS REFER TO DRG-102 FOR RECYCLED WATER DETAIL PLANS REFER TO DRG-202 FOR PRESSURE SEWER DETAIL PLANS REFER TO DRG-302

FOR POTABLE WATER DETAIL PLANS REFER TO DRG-103

FOR RECYCLED WATER DETAIL PLANS REFER TO DRG-203 FOR PRESSURE SEWER DETAIL PLANS REFER TO DRG-303

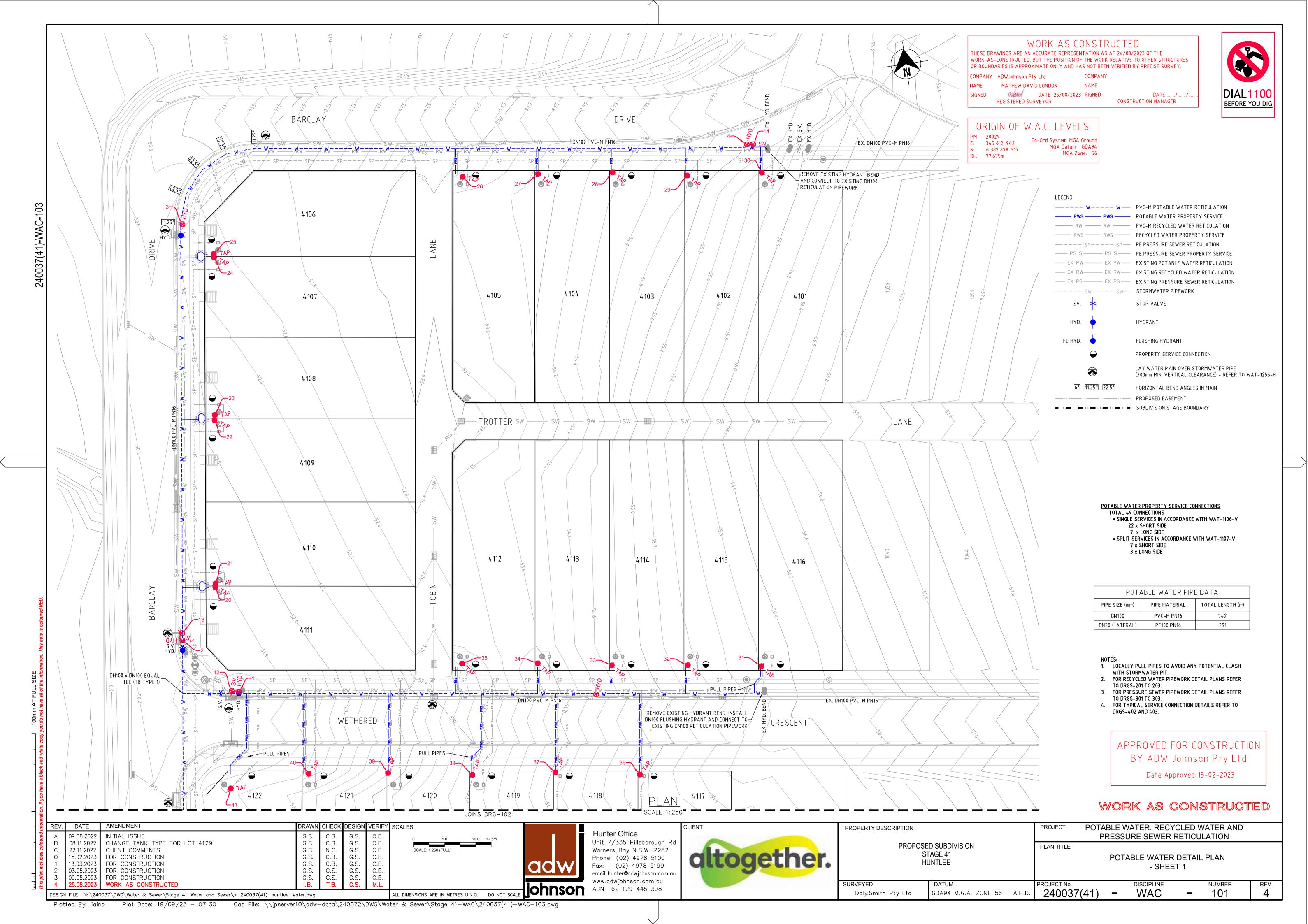
FOR RECYCLED WATER DETAIL PLANS REFER TO DRG-201

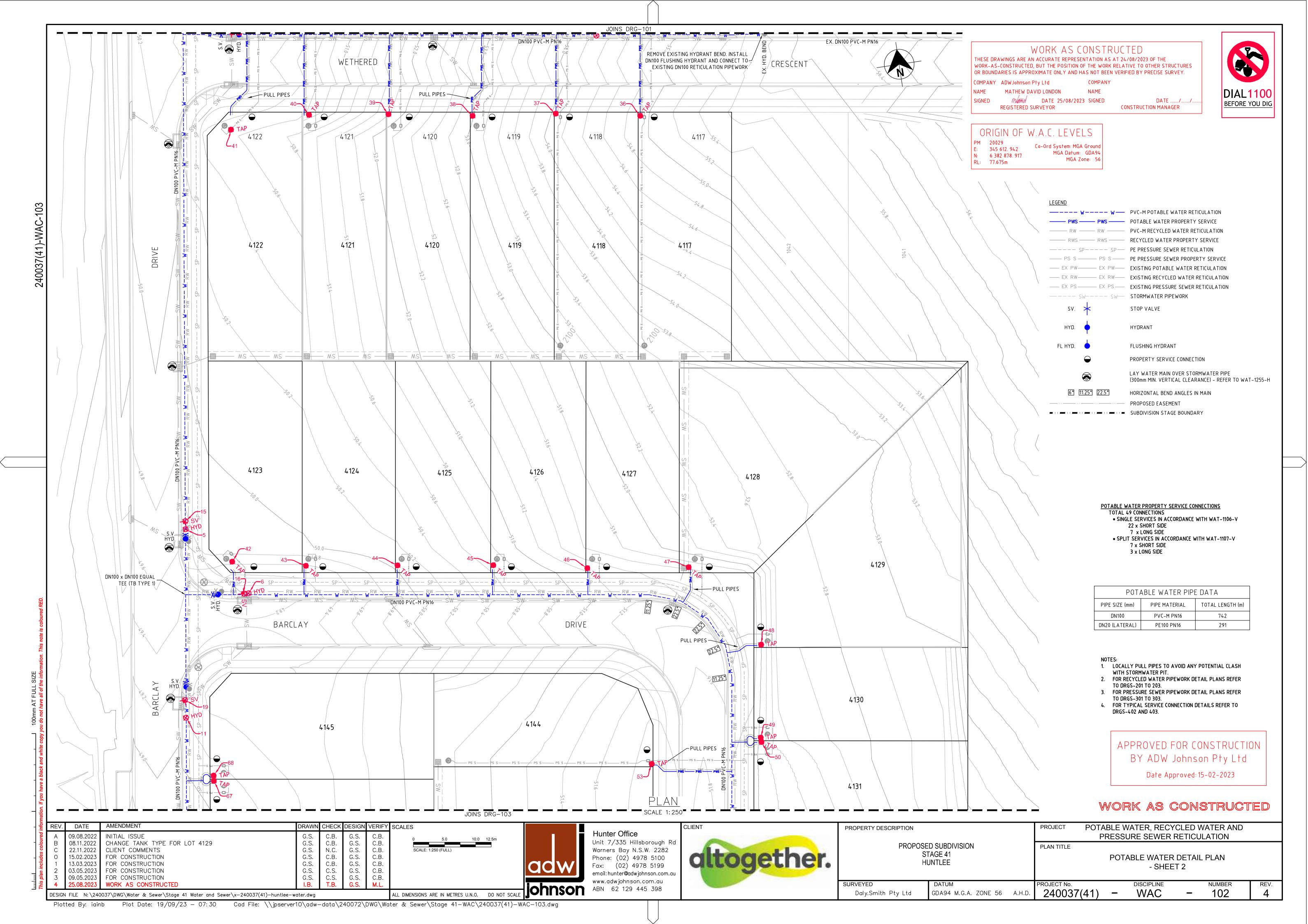
Plotted By: iainb Plot Date: 19/09/23 - 07:30 Cad File: \\jpserver10\adw-data\240072\DWG\Water & Sewer\Stage 41-WAC\240037(41)-WAC-003.dwg

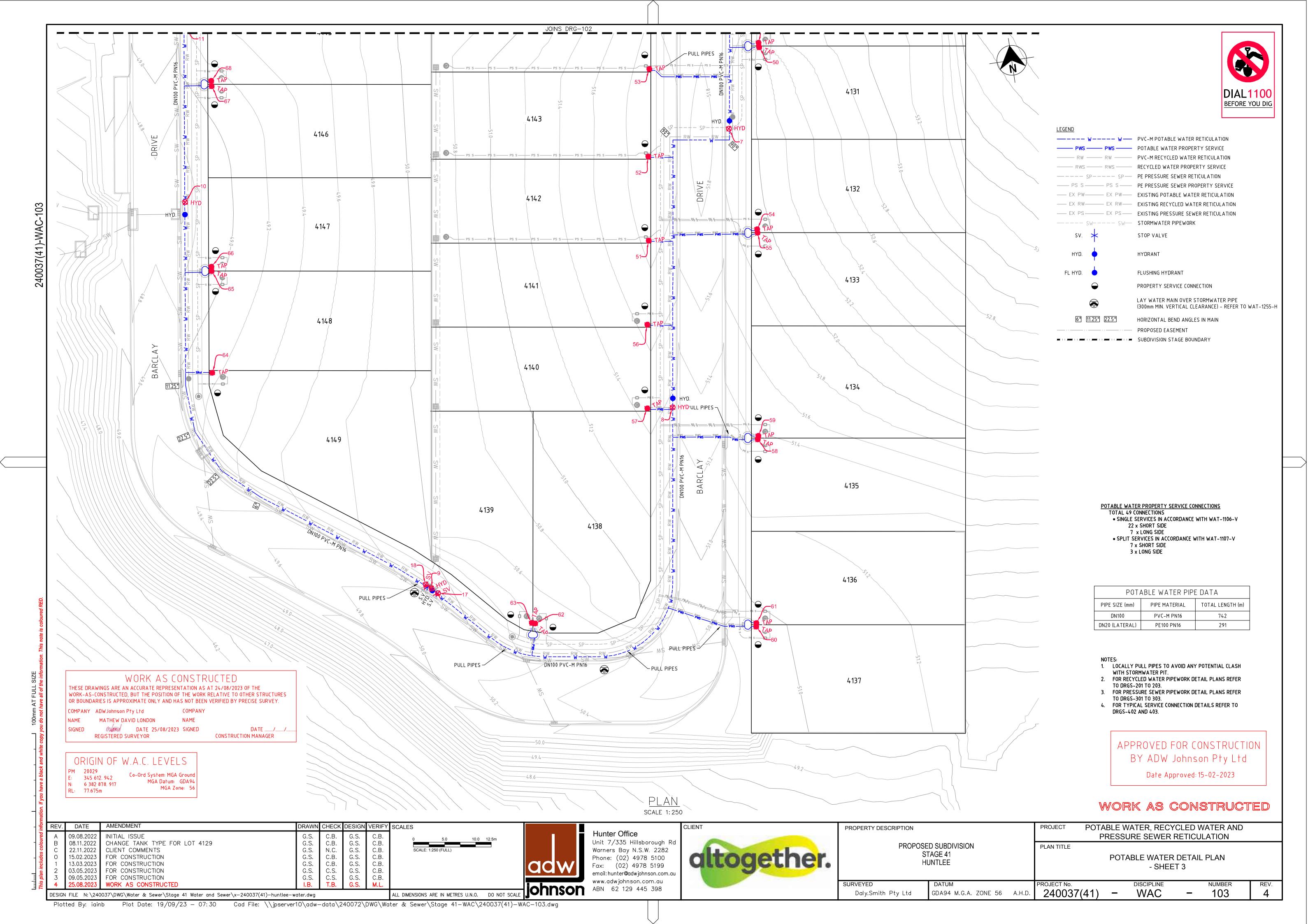
G.S. G.S. G.S. G.S. G.S.

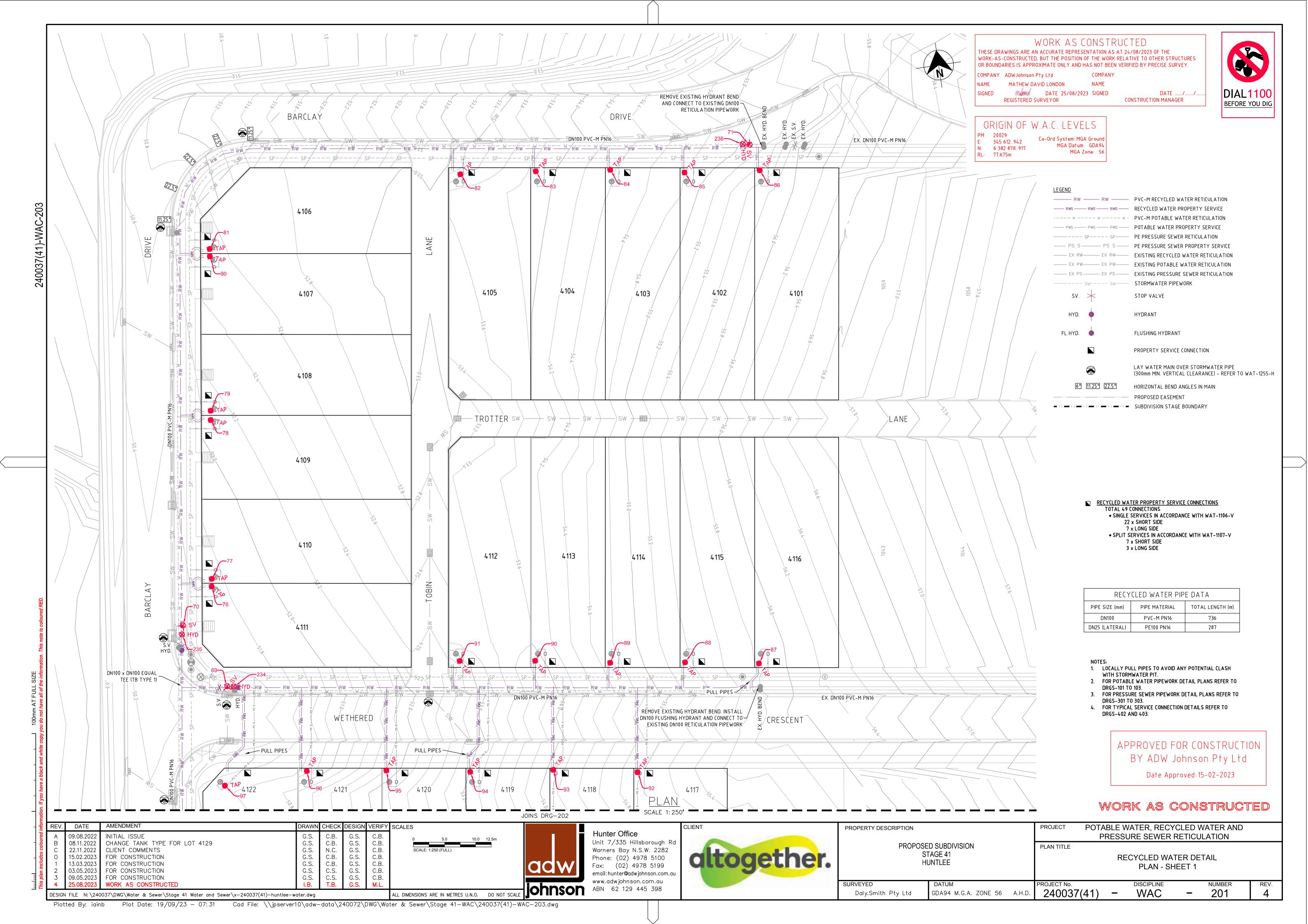
N.C.

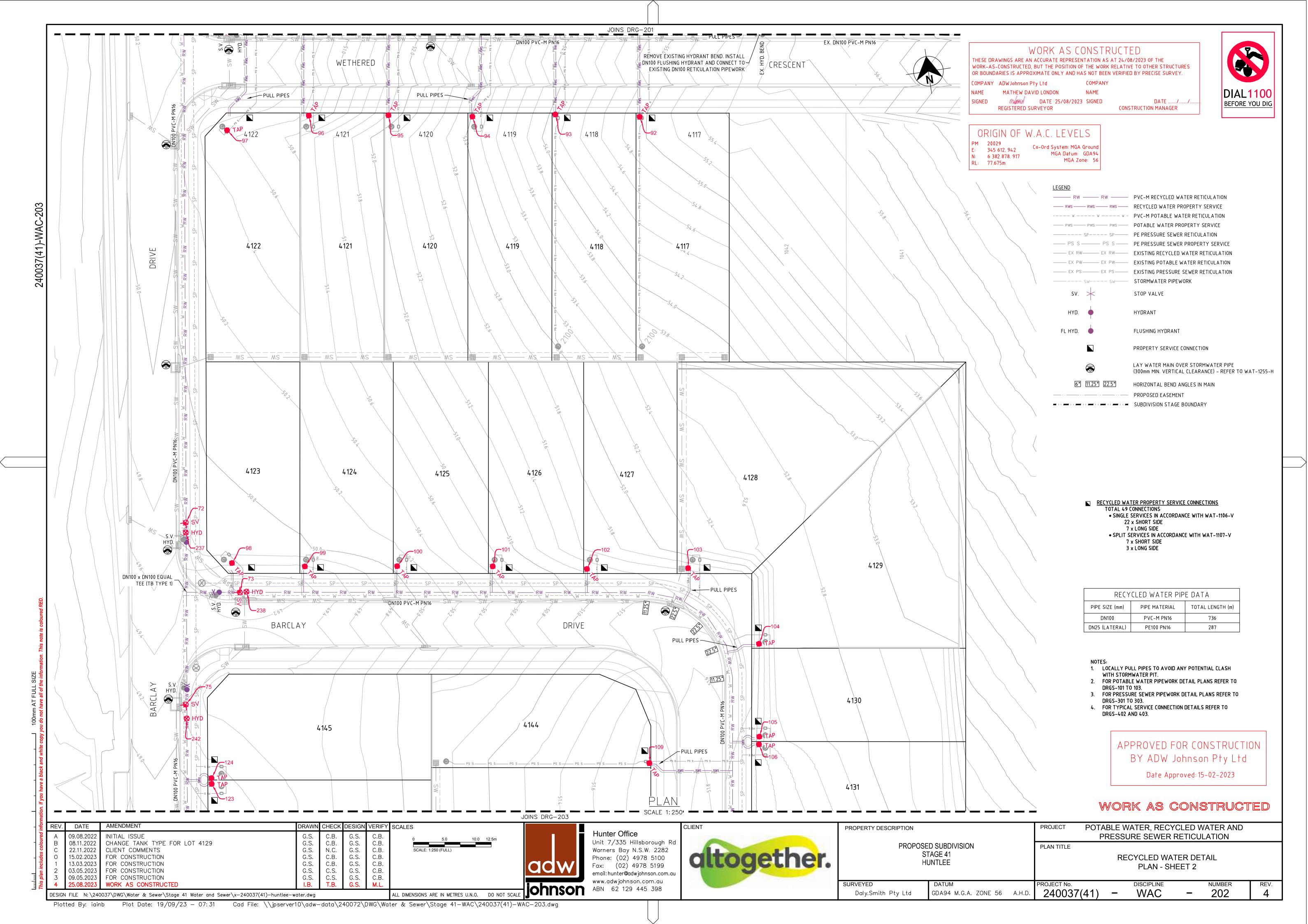
C.B. C.B. C.S. C.S.

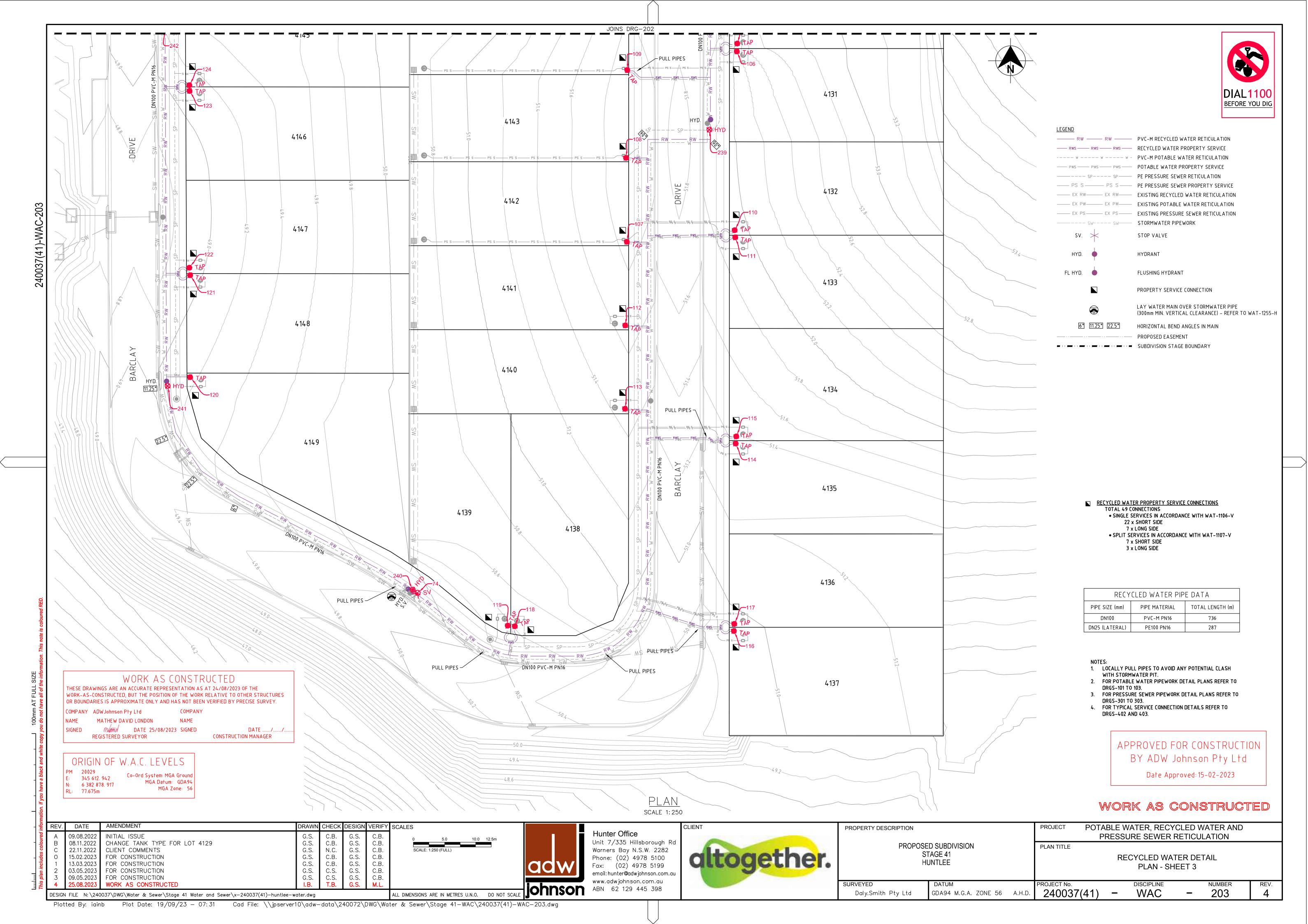


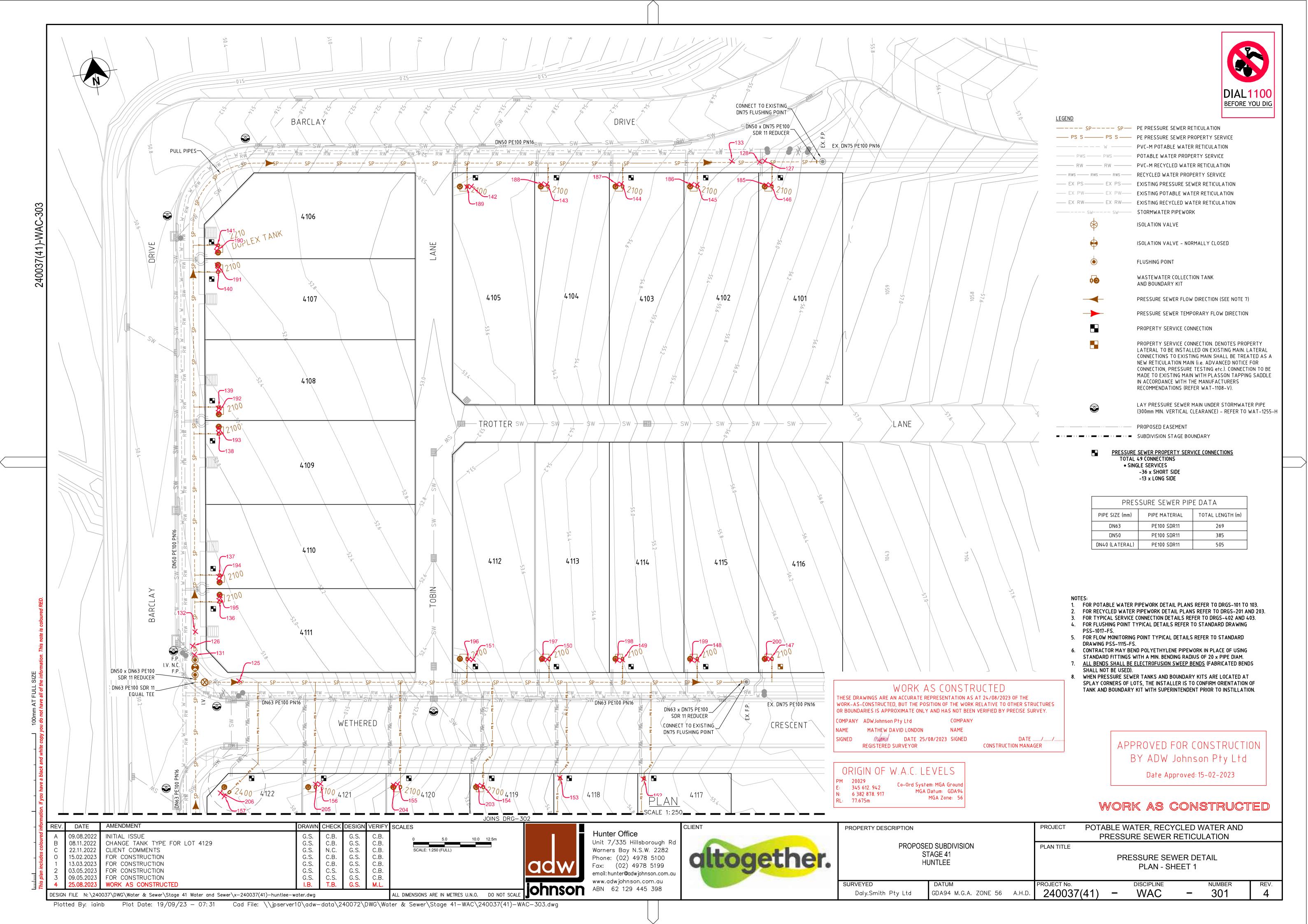


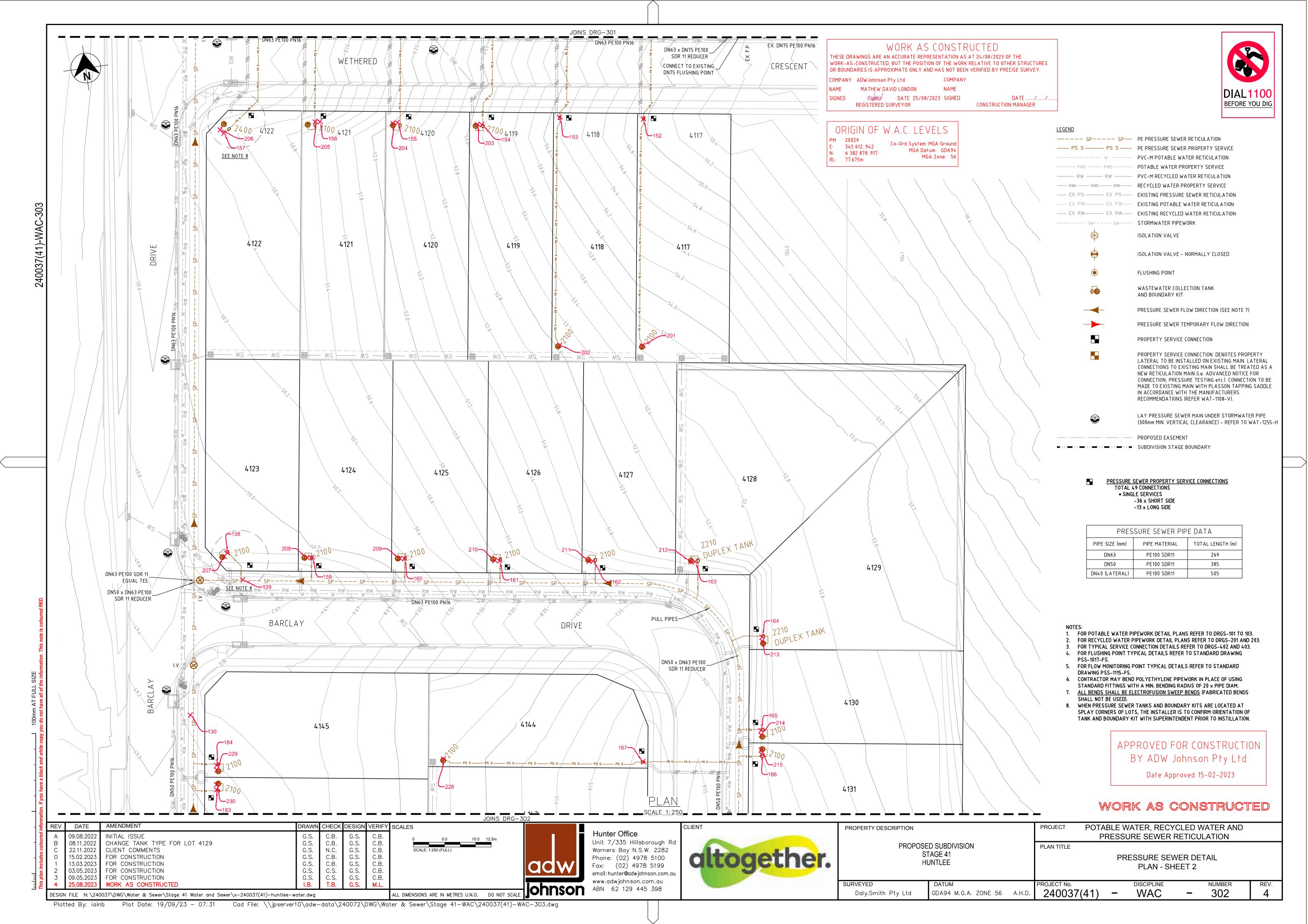


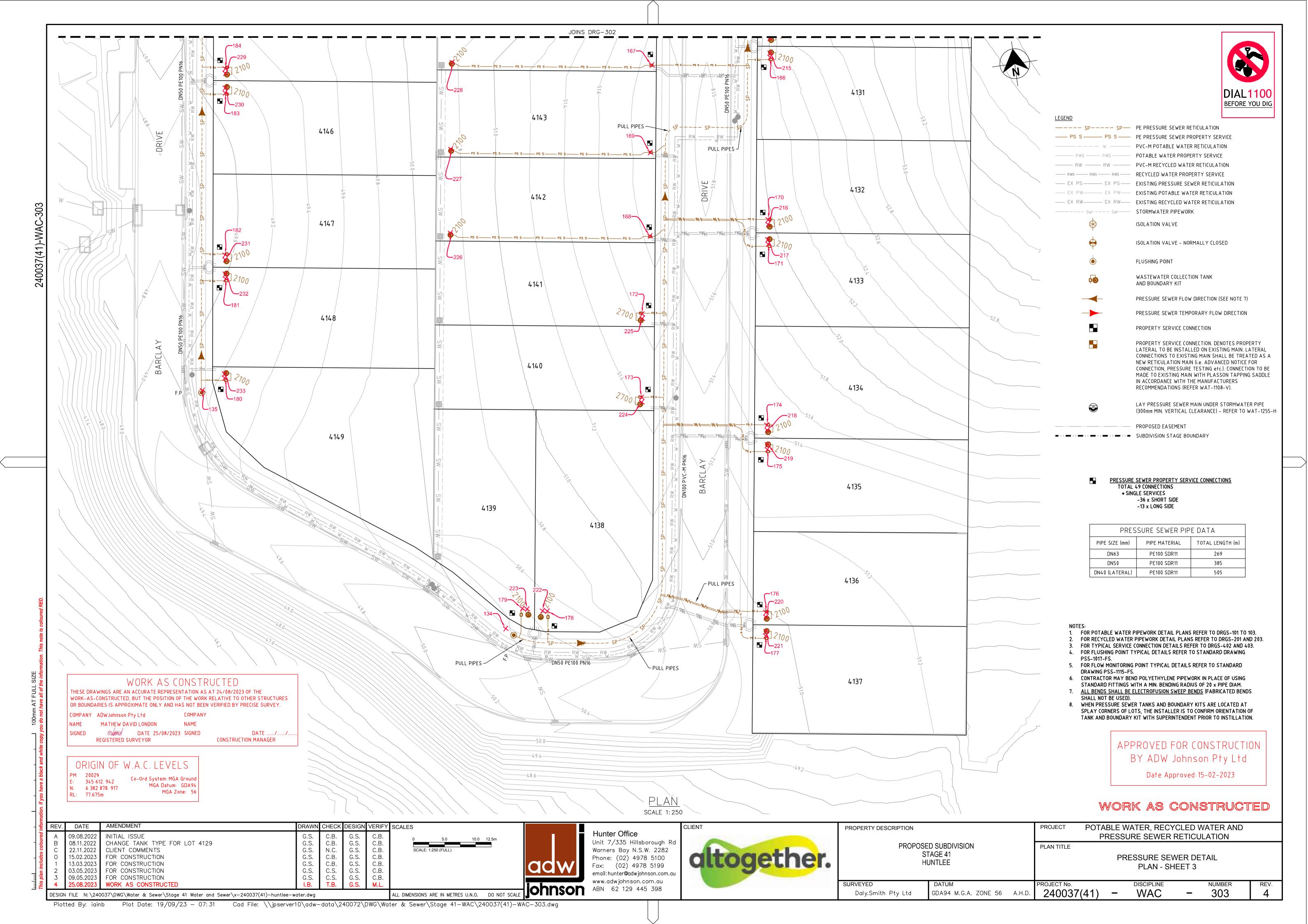


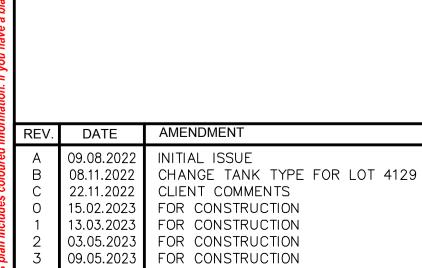












G.S. G.S. G.S. G.S. G.S. 1 13.03.2023 FOR CONSTRUCTION 2 03.05.2023 FOR CONSTRUCTION 09.05.2023 FOR CONSTRUCTION WORK AS CONSTRUCTED DESIGN FILE N: $\240037\DWG\Water \& Sewer\Stage 41 Water and Sewer\x-240037(41)-huntlee-water.dwg$

INITIAL ISSUE

G.S. C.B.
G.S. C.B. 0 0.1 0.2 0.3 0.4 A1 / A3 1:10 / 1:20 N.C. C.B. C.B. C.S. C.S. ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCAI **Hunter Office**

MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.

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 JOHNSON ABN 62 129 445 398

1. ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH

CLIENT

Daly.Smith Pty Ltd

PROPERTY DESCRIPTION PROPOSED SUBDIVISION STAGE 41 HUNTLEE

GDA94 M.G.A. ZONE 56 A.H.D.

POTABLE WATER, RECYCLED WATER AND PROJECT PRESSURE SEWER RETICULATION PLAN TITLE TYPICAL PIPEWORK TRENCHING DETAIL PROJECT No. DISCIPLINE

WAC

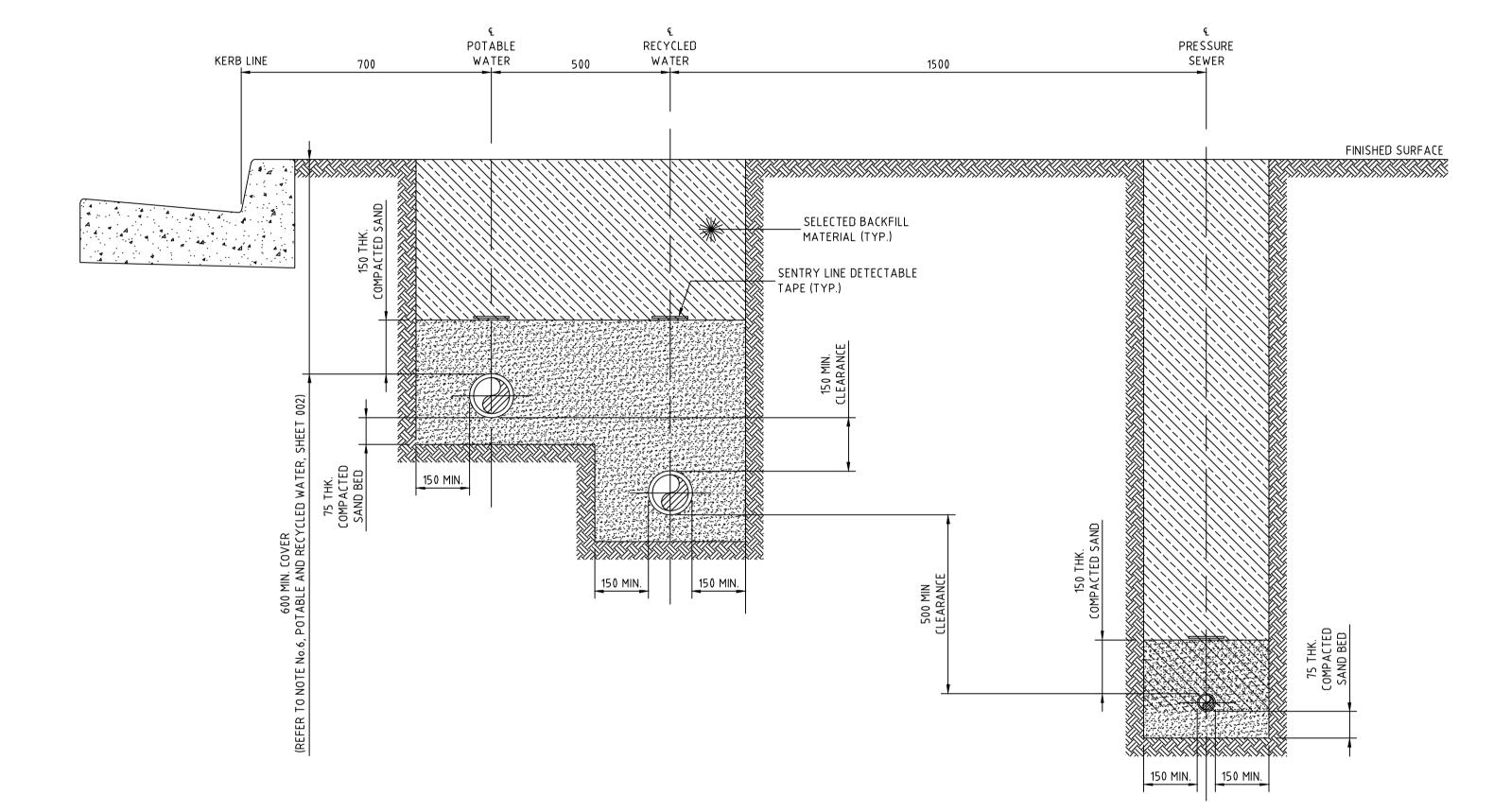
240037(41) -

DATE/..... CONSTRUCTION MANAGER APPROVED FOR CONSTRUCTION BY ADW Johnson Pty Ltd

ORIGIN OF W.A.C. LEVELS Co-Ord System: MGA Ground 345 612. 942 MGA Datum: GDA94

STREET PRESSURE MAIN TYPICAL DETAIL

NOTES:



MATERIAL REMOVED FROM THE EXCAVATION OR IMPORTED MATERIAL CONTAINING NOT MORE THAN 20% BY MASS OF STONES FINISHED SURFACE SENTRY LINE _ DETECTABLE TAPE SOIL FREE FROM ORGANICS OR OTHER DELETERIOUS MATERIAL __ TO AS 2566.1 TABLES 3.1 & 3.2 (EXCLUDES SOILS WITH LL>50%)

PRIVATE PROPERTY PRESSURE MAIN TYPICAL DETAIL

SCALE 1:10

WORK AS CONSTRUCTED THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/08/2023 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 ABW Johnson Pty Ltd

NAME MATHEW DAVID LONDON

DATE 25/08/2023 SIGNED REGISTERED SURVEYOR

N: 6 382 878. 917 MGA Zone: 56 RL: 77.675m

Date Approved: 15-02-2023

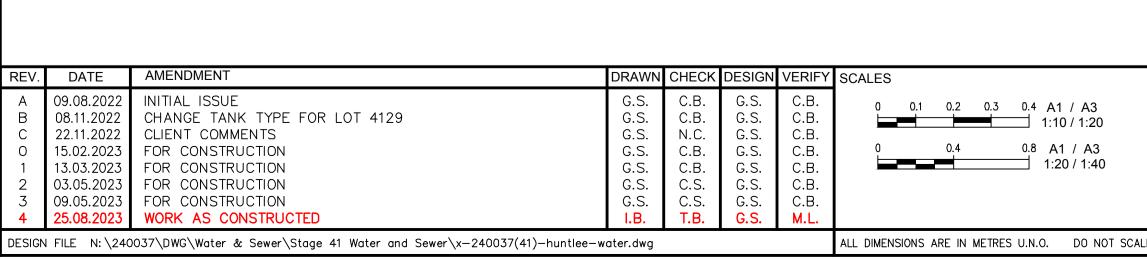
WORK AS CONSTRUCTED

401

BEFORE YOU DIG

DRAWN CHECK DESIGN VERIFY SCALES

C.B.



RETAINING WALL

500 MIN.

CLEARANCE

300

1000 APPROX.

COLLECTION TANK

100 MIN.

CLEARANCE

DN40 PE PRESSURE

SEWER SERVICE (TYP.)

DN25 PE RECYCLED

MAIN AND TEE

WATER SERVICE CONNECTION

BETWEEN RECYCLED WATER

PROPERTY SERVICE CONNECTIONS SHALL BE IN

ACCORDANCE WITH WSA STANDARD DRAWINGS. -

REFER NOTE 14 ON SHEET 002 FOR DETAILS.

BREATHER PIPE

(SEE NOTE 12)

POSITION. —

CLEARANCE

600

1000 APPROX.

(REFER TO NOTE 4)

DN100 PVC PROPERTY CONNECTION

BREATHER PIPE

(SEE NOTE 12)

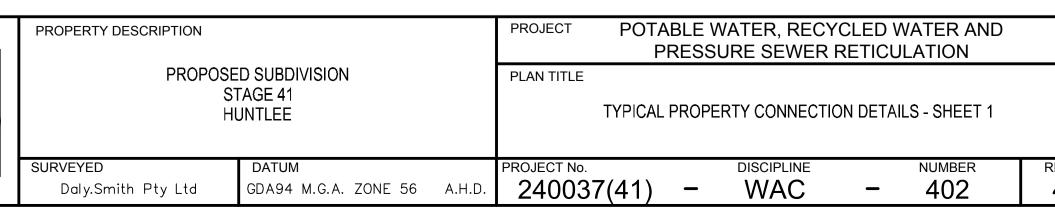
POSITION.-

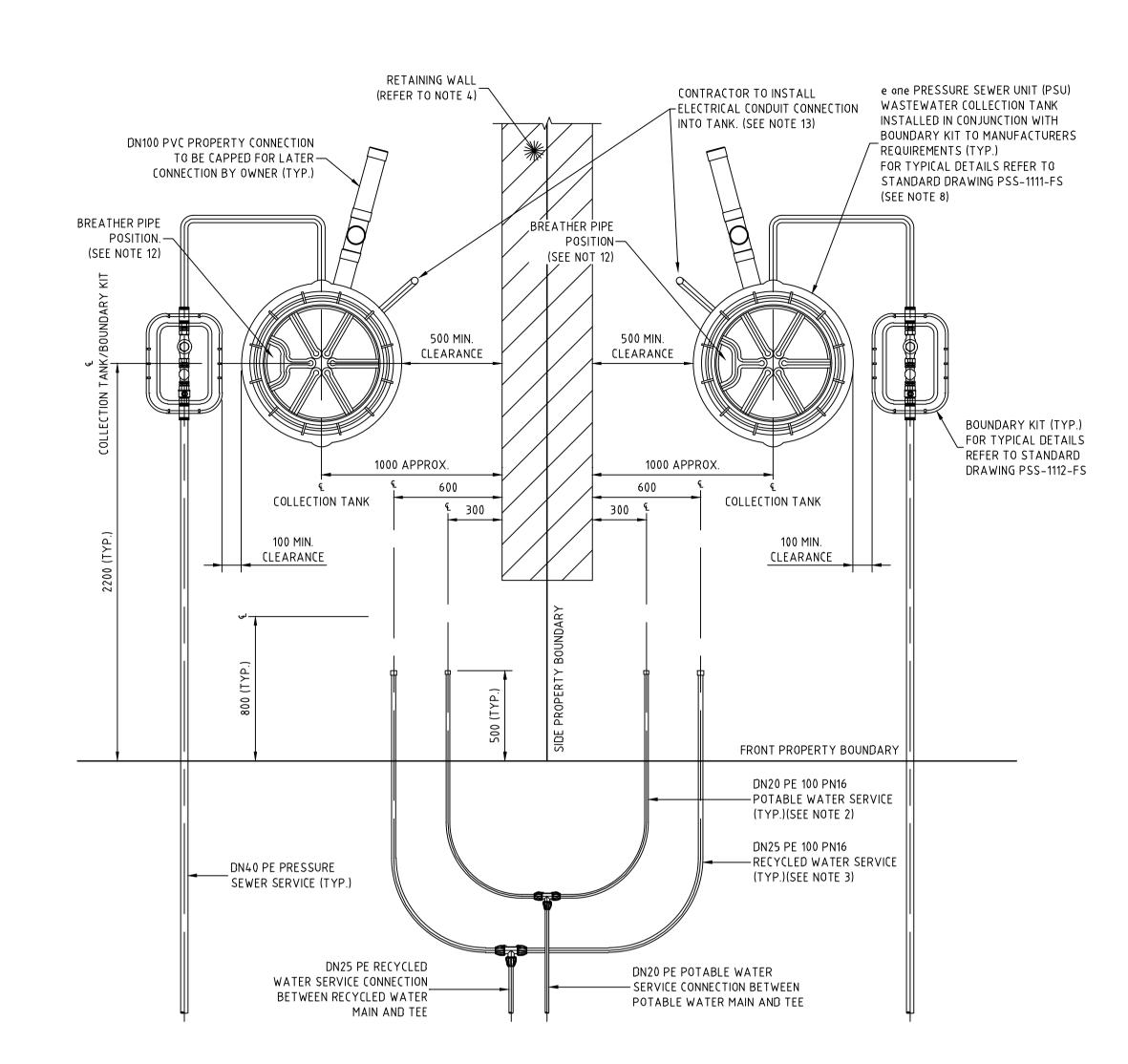
CONNECTION BY OWNER (TYP.)

TO BE CAPPED FOR LATER —









TYPICAL PROPERTY CONNECTION DETAIL

NOV MONO INVIZI-Q PRESSURE SEWER UNIT

INSTALLED IN CONJUNCTION WITH BOUNDARY

KIT TO FLOW SYSTEMS SPECIFICATIONS AND

STANDARD DETAIL AS SHOWN ON DRG-021.

INSTALLATION OF e one PRESSURE SEWER

BOUNDARY KIT (TYP.)

FOR TYPICAL DETAILS

REFER TO STANDARD

DRAWING PSS-1112-FS

TANKS TO BE RETROFITTED FACILITATE

SUBMERSIBLE PUMP UNITS.

(PSU) WASTEWATER COLLECTION TANK

CONTRACTOR TO INSTALL

INTO TANK. (SEE NOTE 13)

ELECTRICAL CONDUIT CONNECTION

COLLECTION TANK

100 MIN.

CLEARANCE

FRONT PROPERTY BOUNDARY

-POTABLE WATER SERVICE

RECYCLED WATER SERVICE

DN20 PE 100 PN16

(TYP.)(SEE NOTE 2)

DN25 PE 100 PN16

DN20 PE POTABLE WATER

SERVICE CONNECTION BETWEEN

POTABLE WATER MAIN AND TEE

BACK OF KERB

PROVIDE DN150 PVC CONDUIT EXTENDING 100mm PAST

BACK OF KERB FOR LONG PROPERTY CONNECTIONS ONLY.

TYPICAL PROPERTY CONNECTION DETAIL

(TYP.)(SEE NOTE 3)

- 1. PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS (SYDNEY WATER VERSION) (SUPPLEMENT TO WSA 03-2011).
- 2. DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- 3. DN25 PE100 PN16 RECYCLED WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- 4. FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT. SERVICES ARE TO BE OFFSET FROM THE PROPERTY BOUNDARY.
- 5. WHERE SERVICE CONNECTIONS ARE LOCATED ADJACENT TO TELSTRA PITS/ELECTRICAL PILLARS, A MINIMUM CLEARANCE OF 200mm BETWEEN PITS AND SERVICE PIPEWORK IS TO BE MAINTAINED.
- 6. MINIMUM BENDING RADIUS FOR PE PIPEWORK IS TO BE 20 x PIPE DIAMETER.
- 7. ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
- 8. PRESSURE SEWER UNIT (PSU) IS TO HAVE 500mm CLEARANCE FROM INTER ALLOTMENT DRAINAGE EASEMENT (IF PRESENT), REAR PROPERTY BOUNDARY RETAINING WALL (IF PRESENT) OR REAR PROPERTY BOUNDARY. PRESSURE SEWER UNIT (PSU) IS TO HAVE 2150mm CLEARANCE FROM BUILDING STRUCTURES.
- 9. \$\phi_25 ELECTRICAL CONDUIT IS TO EXTEND FROM CONNECTION WITH PRESSURE SEWER UNIT (PSU) TO NOM. 500mm INSIDE FRONT PROPERTY BOUNDARY AND BE CAPPED. ELECTRICAL CONDUIT IS TO BE HEAVY DUTY ORANGE. ALL CONDUIT BENDS ARE TO BE LARGE RADIUS SWEEP BENDS.
- 10. FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-FS.
- 11. FOR ALTERNATE TANK AND BOUNDARY CONFIGURATIONS, AND DETAILS FOR TANKS INSTALLED ON PROPERTIES WITH BATTERS AND RETAINING WALLS, REFER TO FLOW SYSTEMS STANDARD DRAWINGS FSI-SK03A-FS AND FSI-SK03B-FS.
- 12. POSITION TANK LID SUCH THAT BREATHER PIPE LOCATION IS ON THE DOWNSLOPE SIDE OF THE BLOCK WHERE POSSIBLE.
- 13. CONTRACTOR TO INSTALL ELECTRICAL CONDUIT CONNECTION. ELECTRICAL GROMMET SUPPLIED WITH TANK AND LOCATED LOOSE WITHIN TANK. Ø25 CONDUIT TO BE PROVIDED WITH LONG RABIUS SWEEP BEND INTO THE VERTICAL POSITION AND LEFT CAPPED ABOVE GROUND LEVEL FOR FUTURE ELECTRICAL CONNECTION BY ELECTRICIAN ONCE DWELLING IS CONSTRUCTED.

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/08/2023 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

NAME MATHEW DAVID LONDON

Man DATE 25/08/2023 SIGNED

DATE/..../.... CONSTRUCTION MANAGER REGISTERED SURVEYOR

ORIGIN OF W.A.C. LEVELS

Co-Ord System: MGA Ground E: 345 612. 942 MGA Datum: GDA94 N: 6 382 878. 917 MGA Zone: 56 RL: 77.675m

> APPROVED FOR CONSTRUCTION BY ADW Johnson Pty Ltd

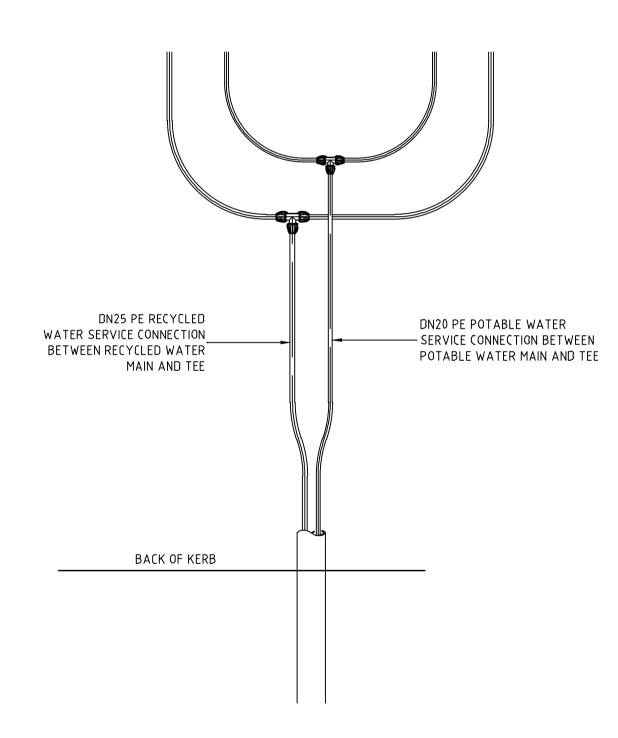
BEFORE YOU DIG

Date Approved: 15-02-2023

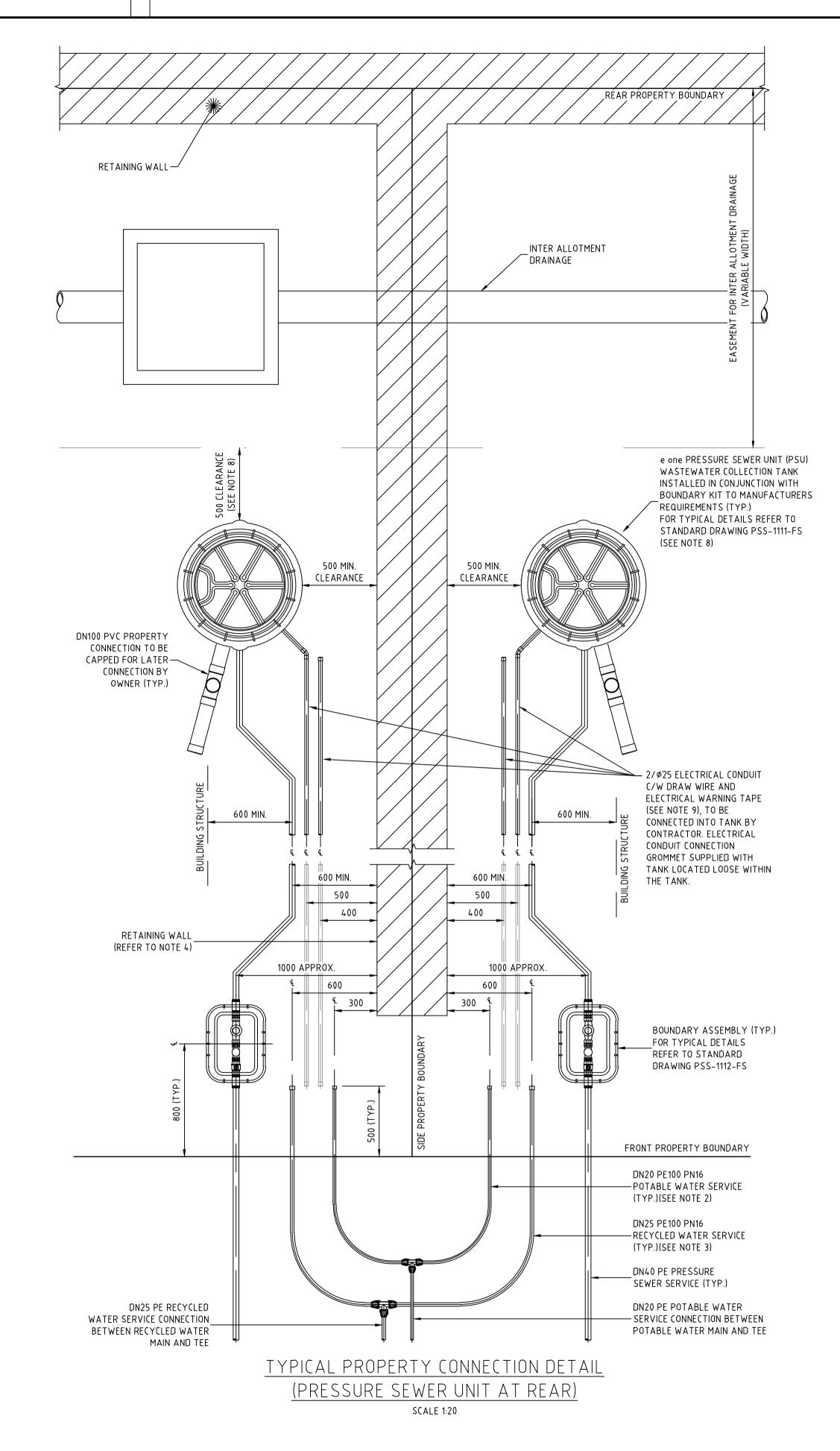
WORK AS CONSTRUCTED

NOTES:

- 1. PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS (SYDNEY WATER VERSION) (SUPPLEMENT TO WSA 03-2011).
- 2. DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- 3. DN25 PE100 PN16 RECYCLED WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- 4. FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT, SERVICES ARE TO BE OFFSET FROM THE PROPERTY BOUNDARY.
- 5. WHERE SERVICE CONNECTIONS ARE LOCATED ADJACENT TO TELSTRA PITS/ELECTRICAL PILLARS, A MINIMUM CLEARANCE OF 200mm BETWEEN PITS AND SERVICE PIPEWORK IS TO BE MAINTAINED.
- 6. MINIMUM BENDING RADIUS FOR PE PIPEWORK IS TO BE 20 x PIPE DIAMETER.
- 7. ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
- 8. PRESSURE SEWER UNIT (PSU) IS TO HAVE 2150mm CLEARANCE FROM BUILDING STRUCTURES.
- 9. \$\phi 25 ELECTRICAL CONDUIT IS TO EXTEND FROM CONNECTION WITH PRESSURE SEWER UNIT (PSU) TO NOM. 500mm INSIDE FRONT PROPERTY BOUNDARY AND BE CAPPED. ELECTRICAL CONDUIT IS TO BE HEAVY DUTY GRANGE. ALL CONDUIT BENDS ARE TO BE LARGE RADIUS SWEEP BENDS.
- 10. FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-FS.
- 11. FOR ALTERNATE TANK AND BOUNDARY CONFIGURATIONS, AND DETAILS FOR TANKS INSTALLED ON PROPERTIES WITH BATTERS AND RETAINING WALLS, REFER TO FLOW SYSTEMS STANDARD DRAWINGS FSI-SK03A-FS AND FSI-SK03B-FS.
- 12. POSITION TANK LID SUCH THAT BREATHER PIPE LOCATION IS ON THE DOWNSLOPE SIDE OF THE BLOCK WHERE POSSIBLE.
- 13. CONTRACTOR TO INSTALL ELECTRICAL CONDUIT CONNECTION. ELECTRICAL GROMMET SUPPLIED WITH TANK AND LOCATED LOOSE WITHIN TANK. \$25 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 POTABLE WATER AND RECYCLED WATER CONDUIT DETAIL (LONG SIDE) SCALE 1:20





WORK AS CONSTRUCTED THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/08/2023 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 MATHEW DAVID LONDON DATE 25/08/2023 SIGNED DATE/..../.... REGISTERED SURVEYOR CONSTRUCTION MANAGER

MGA Zone: 56

ORIGIN OF W.A.C. LEVELS Co-Ord System: MGA Ground 345 612. 942 MGA Datum: GDA94

> APPROVED FOR CONSTRUCTION BY ADW Johnson Pty Ltd

> > Date Approved: 15-02-2023

WORK AS CONSTRUCTED

DRAWN CHECK DESIGN VERIFY SCALES REV. DATE AMENDMENT G.S. G.S. G.S. G.S. G.S. INITIAL ISSUE 08.11.2022 CHANGE TANK TYPE FOR LOT 4129 C.B. G.S. 22.11.2022 CLIENT COMMENTS N.C. G.S. C.B. G.S. C.B. G.S. C.B. G.S. C.B. G.S. C.B. O 15.02.2023 FOR CONSTRUCTION C.B. C.B. C.S. C.S. 13.03.2023 FOR CONSTRUCTION 03.05.2023 FOR CONSTRUCTION 09.05.2023 FOR CONSTRUCTION WORK AS CONSTRUCTED

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

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

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

PROPERTY DESC	RIPTION	
	SI	ED SUBDIVISION FAGE 41 JNTLEE
SURVEYED		DATUM

PROPERTY DESCRIPTION			PROJECT P		VATER, RECY URE SEWER F			
SI	D SUBDIVISION FAGE 41 JNTLEE		PLAN TITLE TYP	ICAL PROPE	RTY CONNECTIO)N DETAII	LS - SHEET 2	
URVEYED Daly.Smith Pty Ltd	DATUM GDA94 M.G.A. ZONE 56	A.H.D.	PROJECT No. 240037(4	1) –	DISCIPLINE	_	NUMBER 403	REV

N: 6 382 878. 917

RL: 77.675m

WAC V'S DESIGN Top of Tank CALCULATED WAC V'S LEVEL TOP OF WAC SANITARY DESIGN INVERT COMPARISON **COLLECTION LID** DRAINAGE LEVEL (-ve) low, (+ve) | INVERT LEVEL COMPARISON WASTEWATER COLLECTION TANK DETAILS high LOT NUMBER TOP OF TANK TANK FSL BASE IL CONNECTION IL TANK HEIGHT TANK LOCATION NORTHING EASTING 6383809.77 55.72 55.59 53.59 345960.24 4101 54.49 **FRONT** 55.74 0.02 54.51 0.02 54.97 54.84 52.84 53.74 2100 FRONT 345948.38 6383811.57 54.96 -0.01-0.0153.73 52.39 53.29 2100 FRONT 4103 54.52 54.39 345936.51 6383813.36 54.53 0.01 53.30 0.01 52.79 54.02 51.89 2100 FRONT 345924.65 6383815.15 53.99 53.89 -0.03 52.76 -0.03 51.50 52.40 2100 FRONT BATTER 345911.78 6383817.10 53.63 53.50 53.49 -0.1452.26 -0.14 52.64 52.51 50.43 51.26 2210 FRONT 345871.76 6383812.43 52.74 0.10 51.36 0.10 52.71 50.58 2100 345871.46 6383810.46 52.58 51.48 FRONT 0.02 51.50 0.02 FRONT 345867.99 6383786.71 52.24 52.11 50.11 51.01 2100 0.10 52.34 51.11 0.10 50.99 50.09 2100 FRONT 345867.69 6383784.73 51.09 52.22 52.09 52.32 0.10 0.10 51.86 51.73 49.73 50.63 2100 FRONT 345864.08 6383759.99 51.88 0.02 50.65 0.02 51.71 49.71 50.61 2100 FRONT 345863.79 6383758.01 51.84 51.91 0.06 50.68 0.07 50.98 51.88 2100 FRONT 53.11 52.98 345900.43 6383742.05 53.21 0.10 51.98 0.10 54.11 51.98 2100 4 113 53.98 52.88 FRONT 345913.48 6383740.08 54.10 -0.0152.87 -0.0152.74 2100 FRONT 345925.16 6383738.31 4114 54.87 54.74 53.64 54.86 -0.0153.63 -0.014 115 55.50 55.37 53.37 54.27 2100 FRONT 345937.03 55.48 6383736.52 -0.02-0.0254.25 4 116 55.98 55.85 53.85 54.75 2100 345948.89 56.05 0.07 0.07 FRONT 6383734.72 54.82 4117 52.52 2100 53.75 51.62 REAR 345921.35 6383682.35 53.72 53.62 -0.0352.49 -0.03REAR 4118 51.02 51.92 53.15 53.02 345908.00 6383684.37 53.14 -0.0151.91 -0.014119 53.20 53.07 50.47 51.37 2700 FRONT 345899.93 6383721.29 53.24 0.04 0.04 51.41 50.94 FRONT 4120 52.04 50.04 2100 345886.77 6383723.29 52.17 52.42 0.25 51.19 0.25 2100 4121 51.05 49.05 FRONT BATTER 345873.24 51.18 49.95 6383725.33 51.39 0.21 50.16 0.21 4122 50.57 50.44 2400 FRONT 345859.91 48.14 49.04 6383727.35 50.57 0.00 49.04 0.00 4123 49.89 49.76 47.76 48.66 2100 FRONT BATTER 345849.78 6383658.50 49.85 -0.0448.62 -0.0447.79 2100 FRONT BATTER 345862.84 6383656.51 4124 49.92 49.79 48.69 49.94 0.02 48.71 0.02 4125 50.25 50.12 48.12 49.02 2100 FRONT 345877.67 6383654.27 50.26 0.01 0.01 49.03 4126 50.87 50.74 48.74 49.64 2100 FRONT 345892.81 6383651.98 50.85 -0.0249.62 -0.0251.50 50.40 2100 345907.94 4127 51.63 49.50 FRONT BATTER 6383649.69 51.65 0.02 50.42 0.02 4128 52.07 51.94 49.94 50.84 2210 FRONT BATTER 345924.25 6383647.23 52.04 -0.0350.66 -0.03 FRONT BATTER 50.30 51.20 4129 52.43 52.30 2210 345933.84 6383632.42 52.40 -0.0351.02 -0.03 50.29 51.19 2100 345931.60 52.42 52.29 FRONT BATTER 6383617.59 52.45 0.03 51.22 0.03 2100 345931.30 4131 52.43 52.30 50.30 51.20 FRONT BATTER 6383615.62 52.46 0.03 51.23 0.03 4132 52.10 50.87 2100 6383587.93 51.97 49.97 FRONT 345927.12 52.08 -0.0250.85 -0.0251.95 50.85 2100 FRONT 345926.82 -0.014133 52.08 49.95 6383585.95 52.07 50.84 -0.016383555.30 50.32 2100 FRONT 345922.18 4134 51.55 51.42 49.42 51.62 0.07 50.39 0.07 4135 51.50 51.37 49.37 50.27 2100 FRONT 345921.88 6383553.32 51.59 0.09 50.98 48.98 49.88 345917.69 6383525.64 4137 2100 51.06 50.93 48.93 49.83 FRONT 345917.40 6383523.66 51.10 0.03 49.87 0.04 4138 50.57 50.44 49.34 FRONT 345881.79 6383531.07 50.88 48.44 2100 0.31 49.65 0.31 4139 50.51 50.38 48.38 49.28 2100 FRONT 345879.86 6383531.71 50.89 0.37 49.66 0.38 4140 51.55 51.42 48.82 49.72 2700 FRONT 345902.46 6383562.63 51.69 0.14 49.86 0.14 4141 51.74 51.61 49.01 49.91 2700 FRONT 345904.47 6383575.98 51.82 0.08 49.99 0.08 50.71 REAR 4142 50.84 48.71 49.61 2100 345876.15 6383593.92 50.90 0.06 49.67 0.06 REAR 4143 50.85 50.72 48.72 49.62 2100 345878.17 6383607.27 50.95 0.10 49.72 0.10 50.73 2100 4144 50.86 48.73 49.63 REAR 345880.26 6383621.11 50.91 0.05 49.68 0.05 4145 49.31 49.18 47.18 48.08 2100 FRONT 345844.26 6383624.53 49.30 -0.0148.07 -0.0147.13 2100 FRONT 4146 49.26 49.13 48.03 345843.96 6383622.55 49.30 0.04 48.07 0.04 4147 49.11 48.98 46.98 47.88 2100 FRONT 345839.93 6383594.85 49.04 -0.0747.81 -0.07

FRONT

FRONT

WASTEWATER COLLECTION TANK COUNT

2100

2100

47.89

48.11

TANK SIZE	NUMBER OF
2100	42
DUPLEX	3
2400	1
2700	3

WORK AS CONSTRUCTED

6383592.87

6383577.04

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/08/2023 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 MATHEW DAVID LONDON MATE 25/08/2023 SIGNED REGISTERED SURVEYOR

345839.63

345837.31

DATE/...../..... CONSTRUCTION MANAGER

49.01

49.36

-0.11

0.02

47.78

48.13

-0.11

0.02

ORIGIN OF W.A.C. LEVELS

Co-Ord System: MGA Ground 345 612. 942 MGA Datum: GDA94 6 382 878, 917 MGA Zone: 56 RL: 77.675m

APPROVED FOR CONSTRUCTION BY ADW Johnson Pty Ltd Date Approved: 15-02-2023

4148

4149

49.12

49.34

48.99

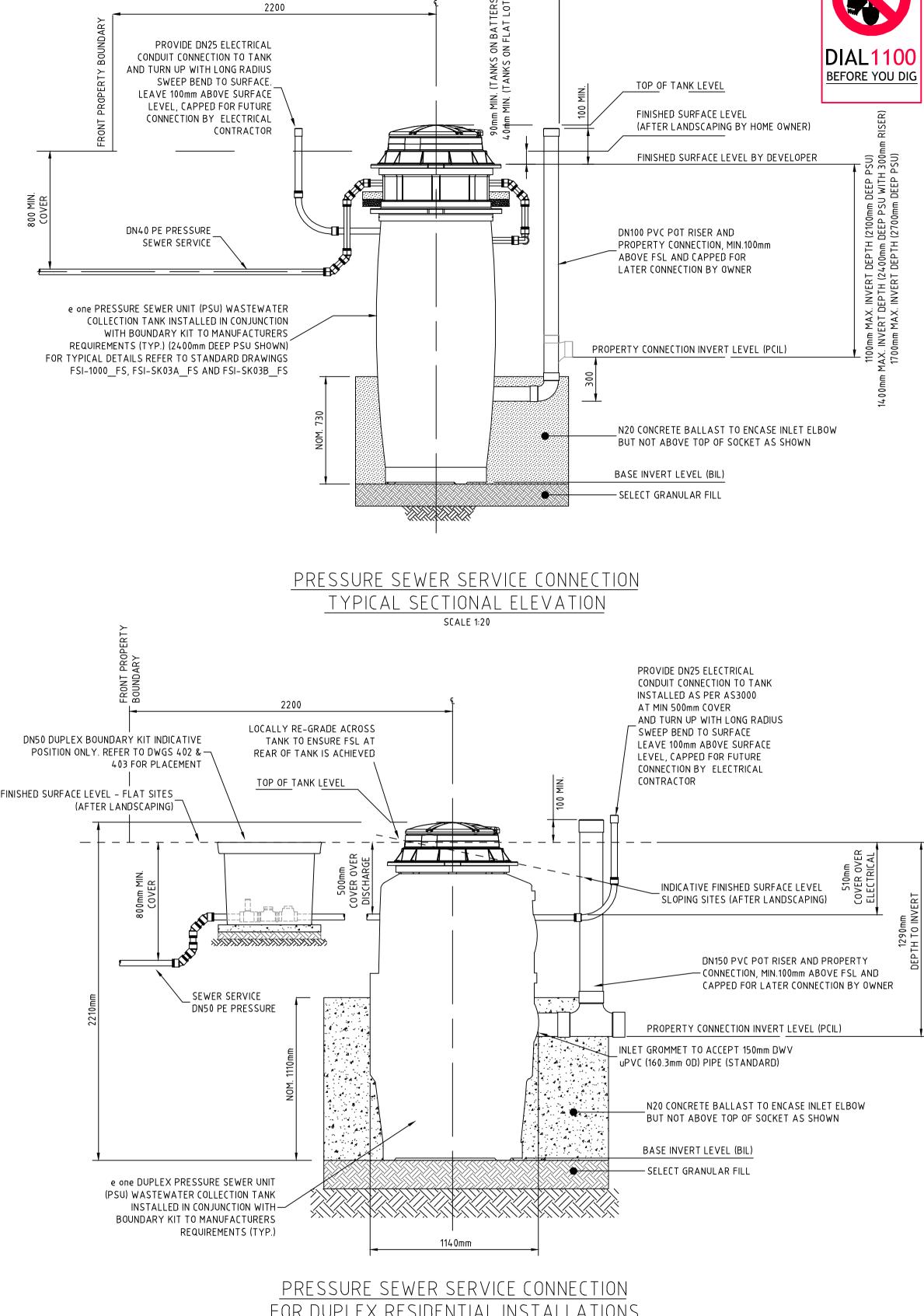
49.21

46.99

47.21



PROPERTY DESCRIPTION			PROJECT POTA	ABLE WA	ATER, RECY	CLED W	ATER AND	
			Р	PRESSUF	RE SEWER F	RETICU	LATION	
	ED SUBDIVISION		PLAN TITLE					
	TAGE 41 UNTLEE		WASTE	WATER C	COLLECTION TA	ANK LEVE	EL DETAILS	
SURVEYED	DATUM		PROJECT No.		DISCIPLINE	•	NUMBER	REV.
Daly.Smith Pty Ltd	GDA94 M.G.A. ZONE 56	A.H.D.	240037(41)	_	WAC	_	404	4



DEVELOPER

HOME OWNER

FOR DUPLEX RESIDENTIAL INSTALLATIONS TYPICAL SECTIONAL ELEVATION N.T.S.

WORK AS CONSTRUCTED

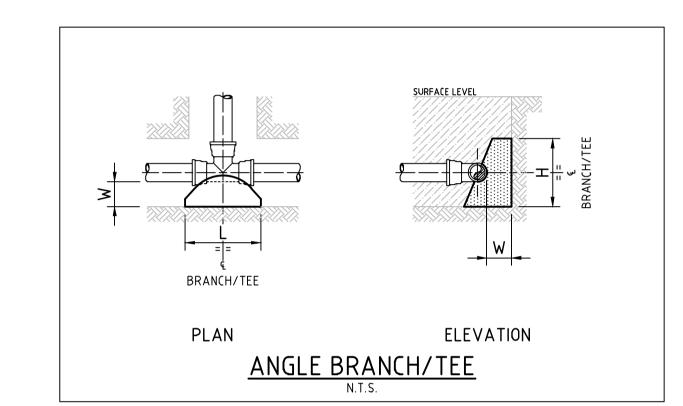
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES			
Α	09.08.2022	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	0 0.1	0.2 0.3	0.4 A1 / A3	
В	08.11.2022	CHANGE TANK TYPE FOR LOT 4129	G.S.	C.B.	G.S.	C.B.			1:10 / 1:20	
С	22.11.2022	CLIENT COMMENTS	G.S.	N.C.	G.S.	C.B.				
0	15.02.2023	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	0	0.4	0.8 A1 / A3	
1	13.03.2023	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.			1:20 / 1:40	
2	03.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.				
3	09.05.2023	FOR CONSTRUCTION	G.S.	C.S.	G.S.	C.B.				

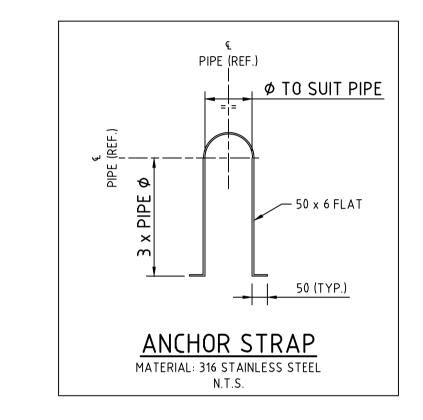
Hunter Office

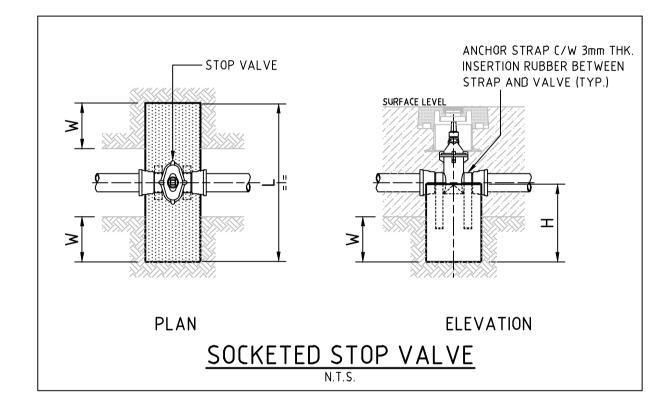
Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 altogether. Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398

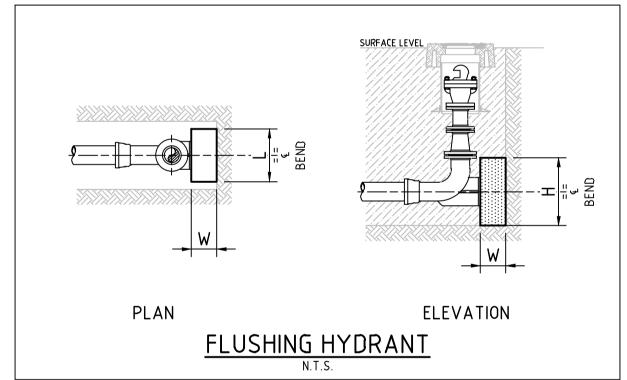
DESIGN FILE N: $\240037\DWG\Water \& Sewer\Stage 41 Water and Sewer\x-240037(41)-huntlee-water.dwg$ ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCA











DATE/..../...

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/08/2023 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.

MGA Zone: 56

COMPANY ABW Johnson Pty Ltd

NAME MATHEW DAVID LONDON DATE 25/08/2023 SIGNED REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS Co-Ord System: MGA Ground MGA Datum: GDA94 E: 345 612. 942

N: 6 382 878, 917

RL: 77.675m

APPROVED FOR CONSTRUCTION BY ADW Johnson Pty Ltd

BEFORE YOU DIG

Date Approved: 15-02-2023

WORK AS CONSTRUCTED

tion									W v			
ed informa:	REV. DATE	AMENDMENT 1022 INITIAL ISSUE	DRAWN CHECK DESIGN VERIFY G.S. C.B. G.S. C.B.	SCALES	Hunter Office	CLIENT	PROPERTY DESCRIPTION			BLE WATER, RECYC RESSURE SEWER RE		
lan includes coloui	B 08.11.20 C 22.11.20 O 15.02.20 1 13.03.20 2 03.05.20	CHANGE TANK TYPE FOR LOT 4129 CLIENT COMMENTS FOR CONSTRUCTION FOR CONSTRUCTION FOR CONSTRUCTION FOR CONSTRUCTION	G.S. C.B. G.S. C.B. G.S. N.C. G.S. C.B. C.S. C.B.	ac	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	altogether.	S	ED SUBDIVISION TAGE 41 UNTLEE	PLAN TITLE	THRUST BLOCK DE		
This p	4 25.08.20	FOR CONSTRUCTION WORK AS CONSTRUCTED \240037\DWG\Water & Sewer\Stage 41 Water and Sewer\x-240037(G.S. C.S. G.S. C.B. I.B. T.B. G.S. M.L. 7(41)—huntlee—water.dwg	ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE	www.adwjohnson.com.au ABN 62 129 445 398		SURVEYED Daly.Smith Pty Ltd	DATUM GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 240037(41)	- WAC	- 405	REV.

THRUST BLOCK NOTES:

1. "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.

3. THRUST BLOCK DIMENSIONS ARE BASED ON THE MINIMUM ALLOWABLE HORIZONTAL BEARING PRESSURES

5. 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

6. CONCRETE FOR THE THRUST BLOCKS TO BE GRADE \$25 USING CEMENT TYPE "SR" TO A\$3972. CONCRETE

7. CONCRETE THRUST BLOCKS ARE TO BE CURED FOR A MINIMUM OF 7 DAYS BEFORE BEING SUBJECTED TO

9. REFER TO WAT-1207-V FOR GENERAL VALVE AND VERTICAL BEND THRUST BLOCK ARRANGEMENTS.

AHBP (kPa) STP (kPa)

100 1500

2 DN100 x (45°, 22.5°, 11.25° & 6°) HORIZONTAL BENDS 100 1500 7.50 0.08 N N 0.30

SOIL | DESIGN | THRUST | TA | LENGTH | HEIGHT | WIDTH |

100 | 1500 | 18.00 | 0.18 | 0.45 | 0.40 | 0.30

100 | 1500 | 18.00 | 0.18 | 0.45 | 0.40 | 0.30

100 1500 25.50 0.26 0.55 0.47 0.30

18.00 0.18 1.05 0.44 0.30

OF THE SOIL AS SHOWN. IF GROUND CONDITIONS ENCOUNTERED INDICATE THAT THESE BEARING

2. CONCRETE THRUST BLOCKS ARE TO BE PROVIDED FOR ALL FITTINGS IN ACCORDANCE WITH TABLE.

PRESSURES MAY NOT BE ACHIEVED, THRUST BLOCK DESIGN IS TO BE REVISED.

8. REFER TO WAT-1205-V FOR GENERAL FITTING THRUST BLOCK ARRANGEMENTS.

10. THRUST BLOCK TO EXTEND 300mm MINIMUM INTO BASE AND SIDE WALLS OF TRENCH.

11. PROVIDE 3mm THK. INSERTION RUBBER BETWEEN ANCHOR STRAP AND PIPE BARREL.

AREA. MAXIMUM ENCASEMENT TO BE 180°.

TO BE MECHANICALLY VIBRATED.

FITTING

DN100 × DN100 EQUAL TEE

DN100 SOCKETED STOP VALVE

DN100 FLUSHING HYBRANT

DN100 x 90° HORIZONTAL BEND

ANY THRUST LOAD.

4. THRUST BLOCKS ARE TO BE CONSTRUCTED SUCH THAT THEY TRANSFER THE THRUST ONTO UNDISTURBED GROUND. THRUST BLOCKS ARE NOT TO INTERFERE WITH OTHER SERVICES.

Point Table

Point # | Eastings | Northings | Levels | Codes

1 | 345864.44 | 6383741.76 | 50.11 | waHYD

2 345856.71 6383751.25 50.35 waHYD

3 345866.68 6383817.38 50.67 waHYD

4 345958.30 6383816.52 55.08 waHYD

5 | 345844.02 | 6383664.15 | 49.74 | waHYD

6 345852.49 6383652.47 49.18 waHYD

7 | 345923.66 | 6383604.34 | 51.79 | waHYD

8 345908.03 6383561.38 51.40 waHYD

9 | 345865.39 | 6383538.40 | 49.97 | waHYD

10 345835.49 6383605.68 48.79 waHYD

11 345839.55 6383634.20 49.21 waHYD

12 | 345863.33 | 6383742.03 | 50.11 | waSV

13 345856.86 6383752.41 50.33 waSV

14 345959.32 6383816.40 55.10 waSV

15 345844.17 6383665.44 49.75 waSV

16 345851.76 6383652.54 49.23 waSV

17 345866.28 6383537.49 50.03 waSV

18 | 345864.55 | 6383539.16 | 49.99 | waSV

19 | 345839.84 | 6383637.03 | 49.28 | waSV

20 345863.21 6383758.89 51.64 waTAP

21 | 345863.34 | 6383759.48 | 51.65 | waTAP

22 | 345867.11 | 6383785.46 | 52.10 | waTAP

23 | 345867.26 | 6383786.30 | 52.09 | waTAP

24 345870.90 6383811.34 52.48 waTAP

25 345870.98 6383811.93 52.53 waTAP

26 345912.36 6383818.19 53.28 waTAP

27 | 345924.42 | 6383816.82 | 53.71 | waTAP

28 | 345936.29 | 6383815.29 | 54.30 | waTAP

29 | 345948.06 | 6383813.03 | 54.73 | waTAP

30 345960.02 6383811.67 55.46 waTAP

31 | 345948.13 | 6383733.28 | 55.74 | waTAP

32 | 345936.42 | 6383735.19 | 55.29 | waTAP

33 345924.35 6383737.00 54.62 waTAP

34 | 345912.62 | 6383739.10 | 53.85 | waTAP

35 345900.58 6383740.86 52.75 waTAP

36 345926.18 6383718.96 54.82 waTAP

37 | 345912.81 | 6383721.33 | 54.02 | waTAP

38 | 345899.55 | 6383722.96 | 52.97 | waTAP

39 345886.21 6383725.24 51.94 waTAP

40 345873.57 6383727.03 50.72 waTAP

41 | 345860.83 | 6383726.57 | 50.40 | waTAP

42 | 345850.66 | 6383657.89 | 49.68 | waTAF

43 345862.25 6383655.46 49.75 waTAP

44 345876.83 6383653.33 50.04 waTAP

46 | 345906.94 | 6383648.33 | 51.16 | waTAP

47 345923.06 6383646.06 51.45 waTAP

50 345930.43 6383616.53 52.14 waTAP

51 345908.25 6383588.46 51.80 waTAP

52 345910.18 6383601.82 51.82 waTAP

48

345932.71 | 6383632.04 | 52.03 | waTAP

345930.43 | 6383617.26 | 52.09 | waTAP

INITIAL ISSUE

DRAWN CHECK DESIGN VERIFY SCALES REV. DATE AMENDMENT 08.11.2022 CHANGE TANK TYPE FOR LOT 4129 G.S. 22.11.2022 CLIENT COMMENTS N.C. G.S. G.S. G.S. G.S. 0 15.02.2023 FOR CONSTRUCTION C.B. 13.03.2023 FOR CONSTRUCTION C.S. C.S. 2 | 03.05.2023 | FOR CONSTRUCTION 3 | 09.05.2023 | FOR CONSTRUCTION WORK AS CONSTRUCTED DESIGN FILE N: $\240037\DWG\Water \& Sewer\Stage 41 Water and Sewer\x-240037(41)-huntlee-water.dwg$

C.B. G.S. C.B. G.S. C.B. G.S. C.B. G.S. C.B. G.S. C.B. ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCAI

Hunter Office Phone: (02) 4978 5100 Fax: (02) 4978 5199 www.adwjohnson.com.au

Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 email: hunter@adwjohnson.com.au **Johnson** ABN 62 129 445 398

CLIENT altogether.

Point # Eastings Northings Levels Codes

345864.07 | 6383760.24 | 51.88 | seTANK4110

345901.83 | 6383741.74 | 53.21 | seTANK4112

345925.37 | 6383738.02 | 54.86 | seTANK4114

345949.08 | 6383734.66 | 56.05 | seTANK4116

345908.34 | 6383684.51 | 53.14 | seTANK4118

345874.51 | 6383725.64 | 51.39 | seTANK4121

345859.19 | 6383726.54 | 50.57 | seTANK4122

345850.08 | 6383658.52 | 49.85 | seTANK4123

345863.27 | 6383656.44 | 49.94 | seTANK4124

6383736.26

51.90 seTANK411

54.10 seTANK4113

55.48 seTANK411

53.72 seTANK4117

52.42 seTANK4120

192 345868.02 6383787.04 52.34 seTANK4108

158 345850.61 6383659.04 49.84

171 | 345926.48 | 6383585.20 | 52.06 |

345863.77 6383757.84

345913.54 6383739.99

345900.26 6383721.48

345886.89 6383723.59

345937.21

196

205

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION STAGE 41 HUNTLEE

PROJECT PLAN TITLE

POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

FITTINGS TABLE

PROJECT No. 240037(41) -WAC 406 GDA94 M.G.A. ZONE 56 A.H.D. Daly.Smith Pty Ltd

Point Table Point # | Eastings | Northings | Levels | Codes 345925.75 | 6383587.66 | 51.81 | waTAP 345925.71 | 6383587.10 | 51.80 | waTAP 345906.01 | 6383575.16 | 51.60 | waTAP 345903.99 | 6383561.84 | 51.47 | waTAP 345920.79 | 6383554.27 | 51.36 | waTAP 345920.98 | 6383554.80 | 51.42 | waTAP 345916.08 | 6383524.55 | 50.94 | waTAP 345916.17 | 6383525.11 | 50.92 | waTAP 345881.01 | 6383530.34 | 50.46 | waTAP 345880.50 | 6383530.52 | 50.44 | waTAP 345835.71 | 6383577.93 | 49.14 | waTAP 345838.03 | 6383594.09 | 48.86 | waTAP 345838.11 | 6383594.80 | 48.81 | waTAP 345842.48 | 6383623.49 | 49.07 | waTAP 345842.56 | 6383624.33 | 49.06 | waTAP 345863.29 | 6383742.37 | 50.12 | waSVR 345857.72 | 6383753.10 | 50.38 | waSVR 345959.30 | 6383815.90 | 55.10 | waSVR 345844.58 | 6383665.29 | 49.75 | waSVR 345851.51 | 6383652.90 | 49.23 | waSVR 345866.64 | 6383537.89 | 50.02 | waSVR 345840.22 | 6383636.38 | 49.29 | waSVR 345863.20 | 6383758.58 | 51.66 | waTAPR 345863.40 | 6383759.79 | 51.66 | waTAPR 345867.05 | 6383785.06 | 52.11 | waTAPR 345867.28 | 6383786.54 | 52.13 | waTAPR 345870.85 | 6383811.07 | 52.49 | waTAPR 345870.99 | 6383812.25 | 52.56 | waTAPR 345912.61 | 6383818.12 | 53.29 | waTAPR 345924.69 | 6383816.79 | 53.69 | waTAPR 345936.56 | 6383815.24 | 54.26 | waTAPR 345948.29 | 6383813.03 | 54.78 | waTAPR 345960.29 | 6383811.58 | 55.49 | waTAPR 345948.35 | 6383733.23 | 55.75 | waTAPR 88 | 345936.62 | 6383735.18 | 55.31 | waTAPR 345924.71 | 6383736.92 | 54.63 | waTAPR 6383739.02 53.86 waTAPR 345900.85 | 6383740.81 | 52.81 | waTAPR 345926.44 6383718.87 54.82 waTAPR 345913.10 | 6383721.26 | 54.08 | waTAPR 345899.86 6383722.93 | 52.97 | waTAPR 345886.56 | 6383725.16 | 51.94 | waTAPR 345873.90 | 6383726.99 | 50.75 | waTAPR 345860.55 | 6383726.64 | 50.41 | waTAPR 6383657.74 49.65 waTAPR 345862.46 | 6383655.47 | 49.75 | waTAPR 345877.13 | 6383653.29 | 50.00 | waTAPR 345892.32 | 6383650.98 | 50.65 | waTAPR 345907.22 | 6383648.32 | 51.22 | waTAPR 345923.32 | 6383645.99 | 51.44 | waTAPR 345932.76 | 6383632.28 | 52.05 | waTAPR

	Р	oint Table		
Point #	Eastings	Northings	Levels	Codes
105	345930.59	6383617.53	52.13	waTAPR
106	345930.37	6383616.29	52.12	waTAPR
107	345908.30	6383588.68	51.84	waTAPR
108	345910.18	6383602.04	51.83	waTAPR
109	345912.49	6383615.95	51.84	waTAPR
110	345925.74	6383587.93	51.84	waTAPR
111	345925.65	6383586.79	51.81	waTAPR
112	345906.06	6383575.43	51.58	waTAPR
113	345904.01	6383562.19	51.50	waTAPR
114	345920.75	6383554.02	51.39	waTAPR
115	345921.04	6383555.12	51.41	waTAPR
116	345915.97	6383524.27	50.95	waTAPR
117	345916.22	6383525.39	50.95	waTAPR
118	345881.28	6383530.28	50.47	waTAPR
119	345880.18	6383530.28	50.47	waTAPR
120				
	345835.65	6383577.64	49.16	waTAPR
121	345838.08	6383593.85	48.83	waTAPR
122	345838.14	6383595.05	48.81	waTAPR
123	345842.42	6383623.14	49.07	waTAPR
124	345842.53	6383624.06	49.10	waTAPR
125	345864.84	6383743.90	50.26	seSV
126	345858.29	6383750.54	50.38	seSV
127	345960.87	6383813.84	55.29	seSV
128	345959.97	6383813.81	55.29	seSV
129	345852.53	6383654.41	49.34	seSV
130	345841.12	6383634.07	49.27	seSV
131	345858.38	6383749.08	50.40	seFP
132	345859.03	6383752.73	50.44	seFP
133	345955.61	6383814.58	55.07	seFP
134	345875.95	6383530.02	50.27	seFP
135	345833.17	6383574.85	49.21	seFP
136	345863.59	6383757.15	51.98	seBDYKIT
137	345864.11	6383760.95	51.93	seBDYKIT
138	345867.56	6383783.80	52.29	seBDYKIT
139	345868.12	6383787.71	52.34	seBDYKIT
140	345871.35	6383809.73	52.74	seBDYKIT
141	345871.74	6383813.48	52.75	seBDYKIT
142	345913.65	6383816.82	53.50	seBDYKIT
	245005 44			
143	345925.66	6383815.35	54.03	seBDYKIT
143	345925.66	6383815.35 6383813.62	54.03 54.54	seBDYKIT seBDYKIT
144	345937.54	6383813.62	54.54	seBDYKIT
144 145	345937.54 345949.54	6383813.62 6383811.68	54.54 55.01	seBDYKIT seBDYKIT
144 145 146	345937.54 345949.54 345961.22	6383813.62 6383811.68 6383809.91	54.54 55.01 55.74	seBDYKIT seBDYKIT seBDYKIT
144 145 146 147	345937.54 345949.54 345961.22 345949.77	6383813.62 6383811.68 6383809.91 6383734.61	54.54 55.01 55.74 56.08	seBDYKIT seBDYKIT seBDYKIT
144 145 146 147 148	345937.54 345949.54 345961.22 345949.77 345938.04	6383813.62 6383811.68 6383809.91 6383734.61 6383736.15	54.54 55.01 55.74 56.08 55.51	seBDYKIT seBDYKIT seBDYKIT seBDYKIT
144 145 146 147 148 149	345937.54 345949.54 345961.22 345949.77 345938.04 345926.19 345914.29	6383813.62 6383811.68 6383809.91 6383734.61 6383736.15 6383737.96 6383739.87	54.54 55.01 55.74 56.08 55.51 54.86 54.09	seBDYKIT seBDYKIT seBDYKIT seBDYKIT seBDYKIT seBDYKIT
144 145 146 147 148 149 150	345937.54 345949.54 345961.22 345949.77 345938.04 345926.19 345914.29 345902.50	6383813.62 6383811.68 6383809.91 6383734.61 6383737.96 6383737.96 6383741.63	54.54 55.01 55.74 56.08 55.51 54.86 54.09 53.18	seBDYKIT seBDYKIT seBDYKIT seBDYKIT seBDYKIT seBDYKIT seBDYKIT seBDYKIT
144 145 146 147 148 149 150 151	345937.54 345949.54 345961.22 345949.77 345938.04 345926.19 345914.29 345902.50 345926.74	6383813.62 6383811.68 6383809.91 6383734.61 6383737.96 6383739.87 6383741.63 6383718.59	54.54 55.01 55.74 56.08 55.51 54.86 54.09 53.18 54.97	seBDYKIT seBDYKIT seBDYKIT seBDYKIT seBDYKIT seBDYKIT seBDYKIT seBDYKIT
144 145 146 147 148 149 150 151 152	345937.54 345949.54 345961.22 345949.77 345938.04 345926.19 345914.29 345902.50 345926.74 345913.50	6383813.62 6383811.68 6383809.91 6383734.61 6383737.96 6383739.87 6383741.63 6383718.59 6383720.76	54.54 55.01 55.74 56.08 55.51 54.86 54.09 53.18 54.97 54.10	seBDYKIT seBDYKIT seBDYKIT seBDYKIT seBDYKIT seBDYKIT seBDYKIT seBDYKIT seBDYKIT
144 145 146 147 148 149 150 151	345937.54 345949.54 345961.22 345949.77 345938.04 345926.19 345914.29 345902.50 345926.74	6383813.62 6383811.68 6383809.91 6383734.61 6383737.96 6383739.87 6383741.63 6383718.59	54.54 55.01 55.74 56.08 55.51 54.86 54.09 53.18 54.97	seBDYKIT seBDYKIT seBDYKIT seBDYKIT seBDYKIT seBDYKIT seBDYKIT seBDYKIT

156 345875.26 6383725.52 51.40

	Point Tabl	e	
Eastings	Northings	Levels	Codes
345859.66	6383725.91	50.56	seBDYKIT
345850.61	6383659.04	49.84	seBDYKIT
345864.06	6383656.35	49.94	seBDYKIT
345878.70	6383654.11	50.26	seBDYKIT
345893.76	6383651.62	50.87	seBDYKIT
345908.61	6383649.42	51.65	seBDYKIT
345924.86	6383646.98	52.03	seBDYKIT
345933.83	6383633.49	52.40	seBDYKIT
345931.52	6383618.65	52.43	seBDYKIT
345931.06	6383614.88	52.47	seBDYKIT
345912.07	6383616.32	51.94	seBDYKIT
345907.89	6383589.18	51.92	seBDYKIT
345909.82	6383602.47	51.94	seBDYKIT
345927.04	6383589.10	52.07	seBDYKIT
345926.48	6383585.20	52.06	seBDYKIT
345904.84	6383576.94	51.81	seBDYKIT
345902.85	6383563.68	51.68	seBDYKIT
345922.15	6383556.45	51.62	seBDYKIT
345921.67	6383552.55	51.60	seBDYKIT
345917.72	6383526.70	51.01	seBDYKIT
345917.15	6383522.95	51.09	seBDYKIT
345882.98	6383531.88	50.88	seBDYKIT
345879.04	6383532.86	50.84	seBDYKIT
345836.96	6383576.31	49.34	seBDYKIT
345839.38	6383592.08	48.89	seBDYKIT
345839.82	6383595.89	48.99	seBDYKIT
345843.55	6383621.66	49.28	seBDYKIT
345844.12	6383625.51	49.30	seBDYKIT
345960.53	6383809.99	55.74	seTANK4101
345948.68	6383811.80	54.96	seTANK4102
345936.82	6383813.67	54.53	seTANK4103
345924.82	6383815.51	53.99	seTANK4104
345912.92	6383816.90	53.49	seTANK4105
345871.62	6383812.72	52.74	seTANK4106
345871.40	6383810.47	52.73	seTANK4107
345868.02	6383787.04	52.34	seTANK4108
345867.59	6383784.51	52.32	seTANK4109

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/08/2023 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.

MGA Zone: 56

COMPANY ADWJohnson Pty Ltd COMPANY

NAME MATHEW BAVID LONDON DATE 25/08/2023 SIGNED REGISTERED SURVEYOR

ORIGIN OF W.A.C. LEVELS

Co-Ord System: MGA Ground E: 345 612. 942 MGA Datum: GDA94

N: 6 382 878. 917

RL: 77.675m

APPROVED FOR CONSTRUCTION BY ADW Johnson Pty Ltd

Date Approved: 15-02-2023

DATE/....

CONSTRUCTION MANAGER

BEFORE YOU DIG

WORK AS CONSTRUCTED