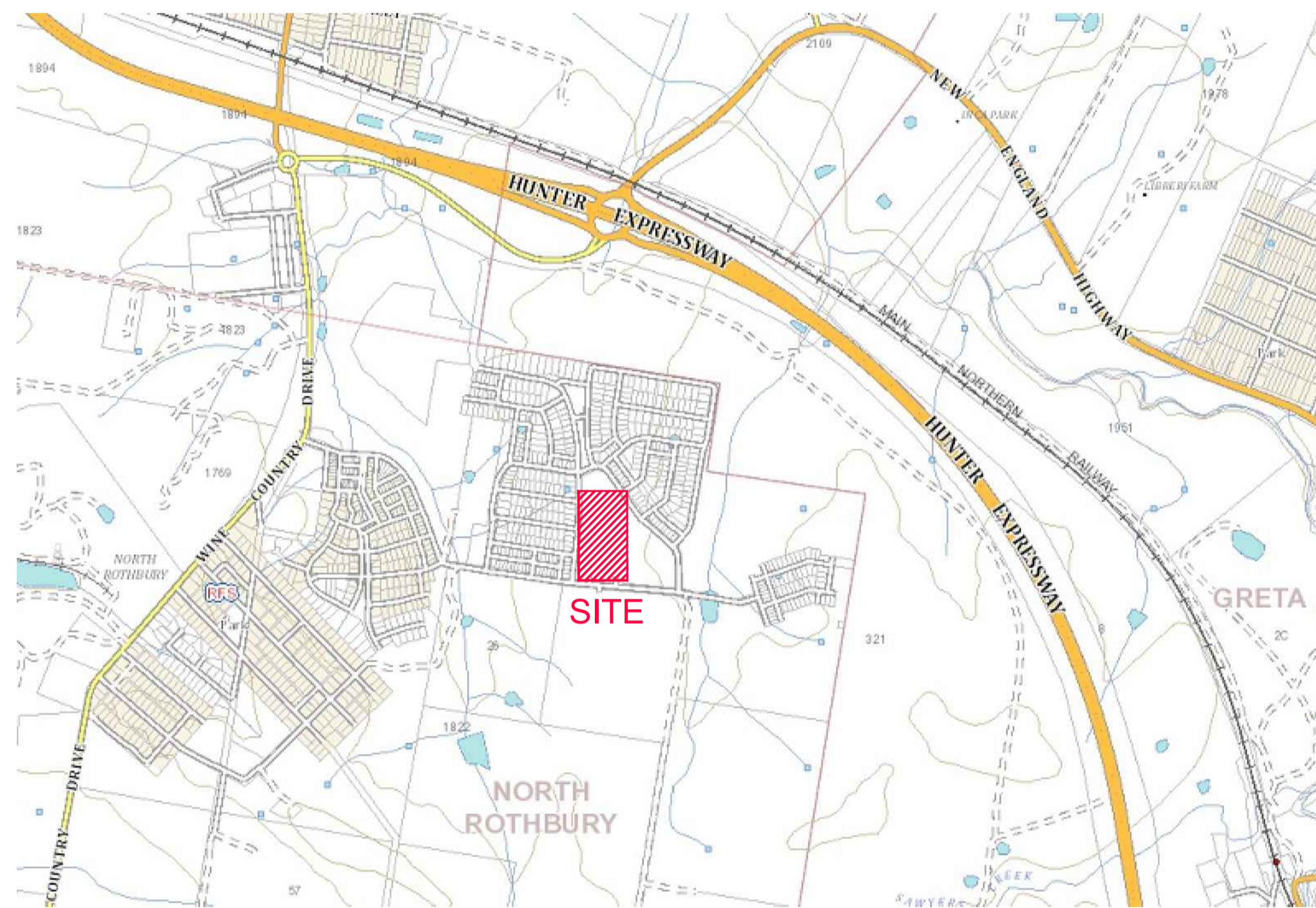
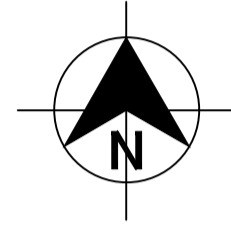




PROPOSED SUBDIVISION STAGE 42 HUNTLEE

240037(42)-WAC-001



LOCALITY SKETCH
NOT TO SCALE

DRAWING INDEX	
DRAWING NUMBER	DRAWING TITLE
24.0037(42)-WAT-001	COVER SHEET, LOCALITY PLAN & DRAWING INDEX
24.0037(42)-WAT-002	GENERAL NOTES
24.0037(42)-WAT-003	OVERALL SITE PLAN
24.0037(42)-WAT-101	POTABLE WATER DETAIL PLAN - SHEET 1
24.0037(42)-WAT-102	POTABLE WATER DETAIL PLAN - SHEET 2
24.0037(42)-WAT-103	POTABLE WATER DETAIL PLAN - SHEET 3
24.0037(42)-WAT-201	RECYCLED WATER DETAIL PLAN - SHEET 1
24.0037(42)-WAT-202	RECYCLED WATER DETAIL PLAN - SHEET 2
24.0037(42)-WAT-203	RECYCLED WATER DETAIL PLAN - SHEET 3
24.0037(42)-WAT-301	PRESSURE SEWER DETAIL PLAN - SHEET 1
24.0037(42)-WAT-302	PRESSURE SEWER DETAIL PLAN - SHEET 2
24.0037(42)-WAT-303	PRESSURE SEWER DETAIL PLAN - SHEET 3
24.0037(42)-WAT-400	FITTINGS TABLE
24.0037(42)-WAT-401	TYPICAL PIPEWORK TRENCHING DETAIL
24.0037(42)-WAT-402	TYPICAL PROPERTY CONNECTION DETAILS
24.0037(42)-WAT-403	WASTE WATER COLLECTION TANK LEVEL DETAILS
24.0037(42)-WAT-404	THRUST BLOCK DETAILS

WORK AS CONSTRUCTED
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/04/2023 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 COMPANY
 NAME DAVID IAN TURNER NAME
 SIGNED [Signature] DATE 16/05/2023 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

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION		PROJECT	
A	08.10.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		PROPOSED SUBDIVISION STAGE 42 HUNTLEE		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	
0	16.02.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		alttogether.		COVER SHEET, LOCALITY PLAN & DRAWING INDEX		PLAN TITLE	
2	04.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.						PROJECT No. 240037(42) - DISCIPLINE WAC - NUMBER 001 - REV. 6	
3	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.							
4	04.08.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.							
5	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.							
6	16.05.2023	WORK AS CONSTRUCTED	I.B.	C.B.	G.S.	C.B.							

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

PRESSURE SEWER NOTES:

- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN DRAWINGS, ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA, PRESSURE SEWERAGE CODE OF AUSTRALIA - WSA 07-2007 VERSION 1.1 AND POLYETHYLENE PIPELINE CODE WSA 01-2004.
- ALL EQUIPMENT, MATERIALS AND ACCESSORIES USED IN THIS CONTRACT SHALL BE NEW AND SHALL COMPLY WITH ALTOGETHER REQUIREMENTS. BUTT FUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE GEORG FISCHER PIPING SYSTEMS BUTT FUSION PRODUCT RANGE. ELECTROFUSION FITTINGS DENOTED HEREWITH HAVE BEEN DERIVED FROM THE PLASSON "POLYETHYLENE PIPING SYSTEMS" PRODUCT RANGE.
- ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH AND SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO DETERMINE LEVELS AND LOCATIONS OF ALL EXISTING SERVICES IN THE VICINITY OF THE CONSTRUCTION SITE AND ANY CONSTRUCTED STRUCTURES FOR PROPOSED SERVICES, SUCH AS DUCTING FOR WATER OR ELECTRICITY WITHIN THE SUBDIVISION. THE CONTRACTOR MUST ENSURE ALL SERVICES ARE LOCATED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCEMENT OF WORKS.
- PRESSURE SEWER MAINS SHALL BE BLACK POLYETHYLENE (PE100 PN16) WITH A CREAM STRIPE AS PER WSA 02-2007 AND ALTOGETHER SUPPLEMENTARY MANUAL TO WSAA.
- ALL POLYETHYLENE MAINS ≤ DN200 SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ALL POLYETHYLENE MAINS ≥ DN200 SHALL BE JOINED USING BUTTWELD JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- MAIN TO BE LAID GENERALLY AS INDICATED IN SERVICE ALLOCATION DIAGRAMS. INSTRUCTION NOTES SHALL TAKE PRECEDENCE OVER DIAGRAMS WHERE PROVIDED. 600mm HORIZONTAL CLEARANCE TO BE MAINTAINED BETWEEN ALL SEWER AND WATER MAINS. MINIMUM PIPE COVER SHALL BE 800mm IN FOOTWAYS AND 1000mm IN ROADWAYS. MAXIMUM PIPE COVER SHALL BE 1500mm. WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL PRESSURE SEWER AND RECYCLED WATER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
- MAINS CROSSING UNDER EXISTING DRIVEWAYS (SEALED, PAVED OR DECORATIVE) SHALL BE CONDUCTED BY UNDER BORING ONLY UNLESS PERMISSION IS GRANTED BY THE AFFECTED PROPERTY OWNER.
- MAINS WITHIN 2.0m OF ELECTRICITY OR POWER POLES SHALL BE CONDUCTED BY BORING TECHNOLOGY (UNLESS AGREED TO BY THE ALTOGETHER REPRESENTATIVE).
- ALL PIPE BEDDING MATERIAL SHALL COMPLY WITH WSAA PRODUCT SPECIFICATION WSA-PS350 AND WSA-PS351.
- ALL BENDS SHALL BE ELECTROFUSION OR BUTT WELD SWEEP BENDS. FABRICATED BENDS SHALL NOT BE USED IN LIEU. KNUCKLE ELBOWS ARE NOT PERMITTED.
- MINIMUM BENDING RADIUS FOR PN16 PE100 (SDR11) SHALL BE 20 x DN. (i.e. DN400 : R8.0m, DN250 : R5.0m, DN200 : R4.0m, DN160 : R3.2m, DN125 : R2.5m, DN90 : R1.8m, DN75 : R1.5m, DN63 : R1.3m, DN50 : R1.0m, DN40 : R0.8m).
- ALL HOUSE SERVICE LATERALS SHALL BE DN40 (PE100 PN16).
- FLUSHING PITS SHALL CONFORM WITH ALTOGETHER STANDARD DRAWINGS. REFER TO ALTOGETHER WEBSITE FOR CURRENT VERSION. SMALL MAINS (- DN110) http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017A-FS.pdf LARGE MAINS (- DN110) http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017B-FS.pdf
- LOCALISED DEEPENING OF MAINS MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION. THE CONTRACTOR SHALL ENSURE THAT THE AIR VALVE OFFTAKE IS LOCATED AT A HIGH POINT (NATURAL OR ARTIFICIAL) IN THE MAIN (i.e. MAIN SHALL GRADE DOWNWARDS EITHER SIDE OF THE AIR VALVE).
- DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
- ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
- ALL VALVES SHALL BE RESILIENT SEATED SLUICE VALVES (ANTI-CLOCKWISE CLOSING), SHALL BE RESTRAINED IN ACCORDANCE WITH WAT-1207 AND SHALL COMPLY WITH ALTOGETHER STANDARD DRAWING PSS-1015-FS.
- ALL MAINS SHALL BE TESTED IN ACCORDANCE WITH WSA 07-2007 VERSION 1.1.
- FOR LOTS WITH TANKS IN THE REAR. 1 x #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).
- THE CONSTRUCTOR SHALL PROVIDE HUNTLEE WATER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED AND CONFIRMATION IS PROVIDED BY THE ALTOGETHER REPRESENTATIVE.
- UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
- PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
- BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.
- THE MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY THE PRESSURE SEWER CODE OF AUSTRALIA (CLAUSE 213.4) ARE:
TRAFFICABLE PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING.
NON-TRAFFICABLE PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900mm OF FILL AND EACH 100 LINEAL METRES OF PIPE.
- BOUNDARY KITS (COMPLETE) SHALL BE NOV SUPPLIED (NOV PSS-BK4). e one COLLECTION TANK (ESD 20-0032/ESD 20-0033) SHALL BE INSTALLED WITH BOUNDARY KIT (REFER ALTOGETHER STANDARD DRAWINGS PSS-1112-FS AND PSS-1113-FS). PUMP TO BE INSTALLED BY OTHERS.
- ALL MAINS (UP TO THE BOUNDARY KIT) SHALL BE PRESSURE TESTED TO 1600 kPa. ALL LINES FROM THE WASTEWATER COLLECTION TANK TO THE MANUAL ISOLATION VALVE WITHIN THE BOUNDARY KIT TO BE PRESSURE TESTED TO 1000kPa.
- ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
- SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
- ROPE OFF ALL PRESSURE SEWER UNITS AND FLUSHING POINTS TO LIMIT DAMAGE DURING CONSTRUCTION.
- PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
- WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER Q.A. SUBMISSION CHECKLIST.

POTABLE WATER AND RECYCLED WATER NOTES:

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

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

GENERAL NOTES:

- THIS DRAWING SET SHALL BE READ IN CONJUNCTION WITH CESSNOCK CITY COUNCIL STANDARDS, ALTOGETHER SUPPLEMENTARY MANUAL TO 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.
- MAKE SMOOTH TRANSITION TO EXISTING WORKS (i.e. ROAD PAVEMENT AND FOOTPATHS) TO P.C.A. AND SUPERINTENDENT'S REQUIREMENTS.
- SUITABLE PROTECTION TO EXISTING ROAD PAVEMENT, KERB AND GUTTER, FOOTPATHS AND ANY EXISTING FEATURES SHALL BE PROVIDED UNTIL THE CONSTRUCTION WORKS ARE COMPLETED.

CLEARANCES BETWEEN PIPELINES AND UNDERGROUND SERVICES

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

NOTES:

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

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

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/04/2023 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	COMPANY	
NAME	DAVID IAN TURNER	NAME	
SIGNED		SIGNED	
REGISTERED SURVEYOR	DATE 16/05/2023	CONSTRUCTION MANAGER	DATE

ORIGIN OF W.A.C. LEVELS

PM	20029	Co-Ord System:	MGA Ground
E	345612.942	MGA Datum:	GDA94
N	638278.917	MGA Zone:	56
RL	71.675m		

CONSTRUCTION ISSUE

240037(42)-WAC-002

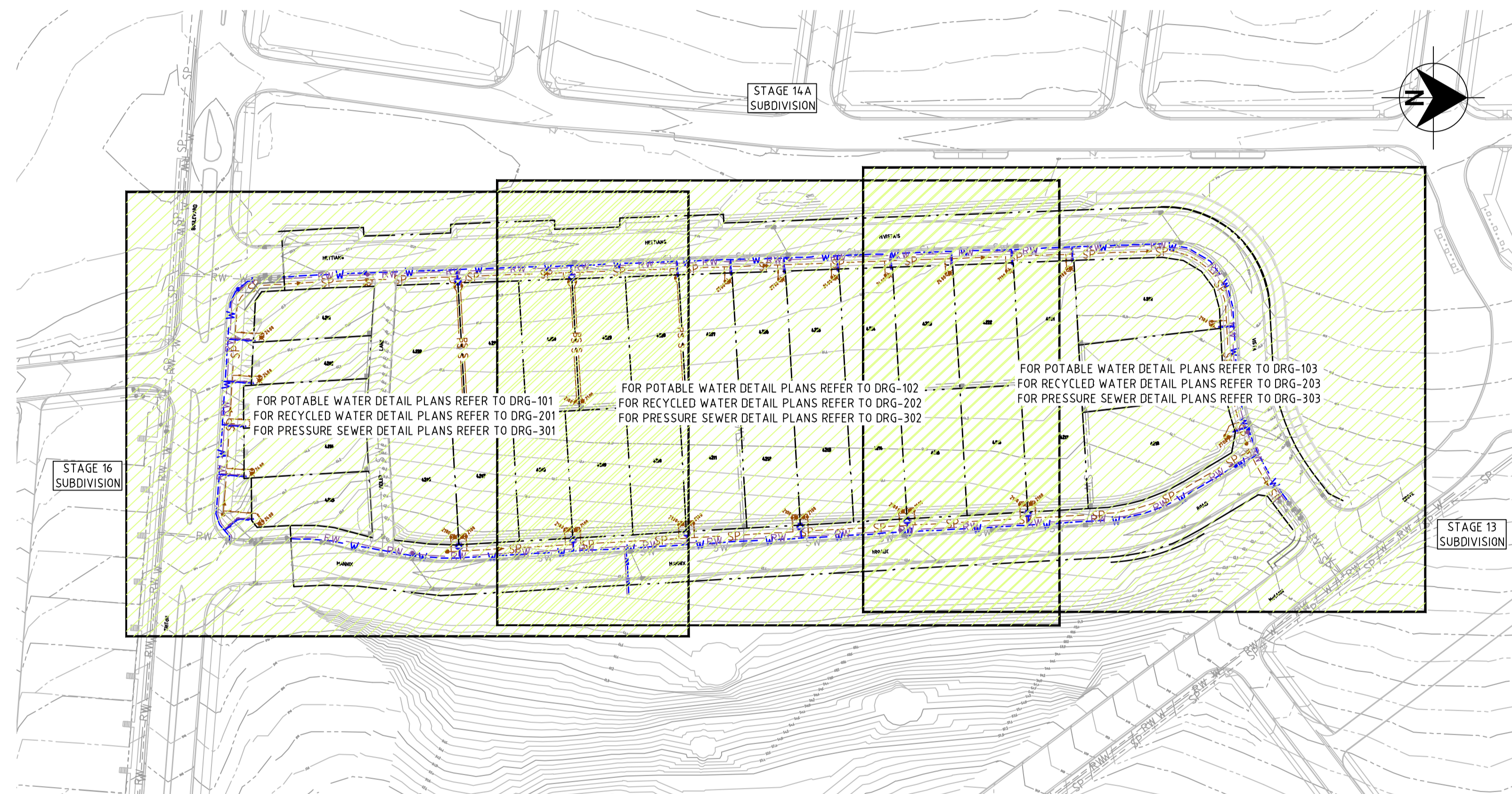
100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	08.10.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohanson.com.au www.adwjohanson.com.au ABN 62 129 445 398	PROPOSED SUBDIVISION STAGE 42 HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	GENERAL NOTES	240037(42)	WAC	002	6
0	16.02.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
2	04.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
3	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
4	04.08.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
5	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
6	16.05.2023	WORK AS CONSTRUCTED	I.B.	C.B.	G.S.	C.B.									



240037(42)-WAC-003

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



WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/04/2023 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 DAVID IAN TURNER NAME
 SIGNED DATE 16/05/2023 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

CONSTRUCTION ISSUE

PLAN
SCALE 1:1000

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE
A	08.10.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	 Bar Scale 1: 1000	 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 STAGE 42 HUNTLÉE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	
0	16.02.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.				OVERALL SITE PLAN	
2	04.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.				OVERALL SITE PLAN	
3	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.				OVERALL SITE PLAN	
4	04.08.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.				OVERALL SITE PLAN	
5	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.				OVERALL SITE PLAN	
6	16.05.2023	WORK AS CONSTRUCTED	I.B.	C.B.	G.S.	C.B.	OVERALL SITE PLAN				
DESIGN FILE N:\JOBNUMBER\Design\120\ ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE											
Plotted By: iainb			Plot Date: 19/05/23 - 09:06			Cad File: \\jserver10\adw-data\240072\DWG\Water & Sewer\Stage 42-WAC\240037(42)-WAC-003.dwg			PROJECT No. 240037(42) - DISCIPLINE WAC - NUMBER 003 - REV. 6		



WORK AS CONSTRUCTED
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/04/2023 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 DAVID IAN TURNER
 SIGNED [Signature] DATE 16/05/2023 REGISTERED SURVEYOR
 COMPANY NAME [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

- LEGEND**
- W PVC-M POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - SP PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - EX PW EXISTING POTABLE WATER RETICULATION
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - SW STORMWATER PIPEWORK
 - SV STOP VALVE
 - 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 ANGLES IN MAIN (112.5° 22.5°)
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
 TOTAL 33 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 -16 x SHORT SIDE
 -1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 -8 x SHORT SIDE
 -0 x LONG SIDE

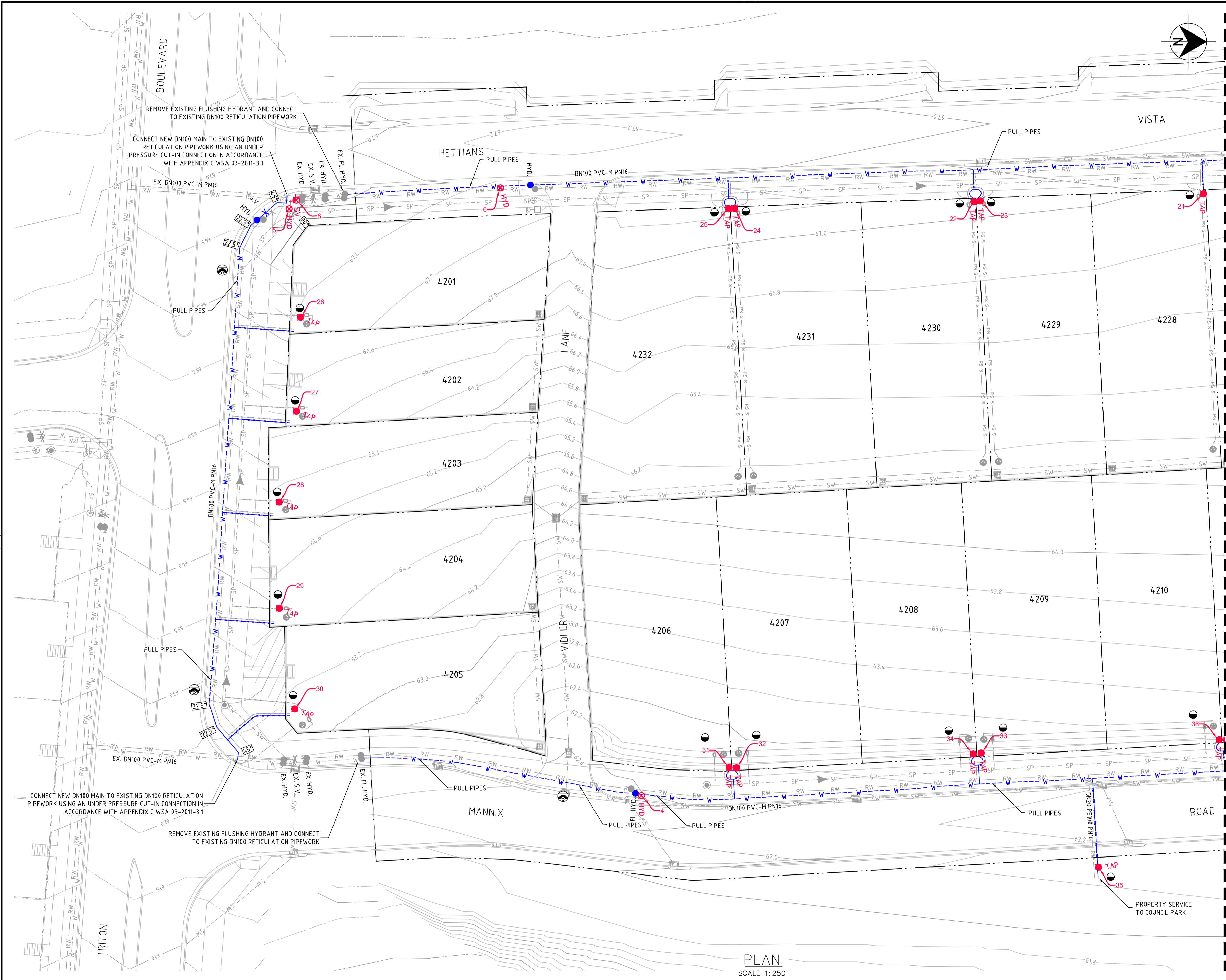
POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	690
DN20 (LATERAL)	PE100 PN16	165

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 - 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.

CONSTRUCTION ISSUE

240037(42)-WAC-101

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



PLAN
 SCALE 1:250

<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>A</td> <td>08.10.2021</td> <td>INITIAL ISSUE</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td rowspan="6"> SCALE: 1:250 (FULL) </td> </tr> <tr> <td>0</td> <td>16.02.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>2</td> <td>04.03.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>3</td> <td>03.06.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>4</td> <td>04.08.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>5</td> <td>21.09.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>6</td> <td>16.05.2023</td> <td>WORK AS CONSTRUCTED</td> <td>I.B.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> </tbody> </table>				REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	A	08.10.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	 SCALE: 1:250 (FULL)	0	16.02.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	2	04.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	3	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	4	04.08.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	5	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	6	16.05.2023	WORK AS CONSTRUCTED	I.B.	C.B.	G.S.	C.B.	 Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398		CLIENT PROPOSED SUBDIVISION STAGE 42 HUNTLEE		PROPERTY DESCRIPTION POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES																																																														
A	08.10.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	 SCALE: 1:250 (FULL)																																																														
0	16.02.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.																																																															
2	04.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.																																																															
3	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.																																																															
4	04.08.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.																																																															
5	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.																																																															
6	16.05.2023	WORK AS CONSTRUCTED	I.B.	C.B.	G.S.	C.B.																																																															
DESIGN FILE: N:\JOBNUMBER\Design\120\ ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE								PLANNED BY: iainb PLANNED DATE: 19/05/23 - 09:06 CAD FILE: \\pserver10\adw-data\240072\DWG\Water & Sewer\Stage 42-WAC\240037(42)-WAC-101.dwg		PLAN TITLE POTABLE WATER DETAIL PLAN - SHEET 1		PROJECT No. 240037(42) - DISCIPLINE WAC - NUMBER 101 - REV. 6																																																									



WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/04/2023 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	COMPANY	
NAME	DAVID IAN TURNER	NAME	
SIGNED		SIGNED	
REGISTERED SURVEYOR		CONSTRUCTION MANAGER	
DATE	16/05/2023	DATE	

ORIGIN OF W.A.C. LEVELS

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

LEGEND

- PVC-M POTABLE WATER RETICULATION
- POTABLE WATER PROPERTY SERVICE
- PVC-M RECYCLED WATER RETICULATION
- RECYCLED WATER PROPERTY SERVICE
- PE PRESSURE SEWER RETICULATION
- PE PRESSURE SEWER PROPERTY SERVICE
- EXISTING POTABLE WATER RETICULATION
- EXISTING RECYCLED WATER RETICULATION
- EXISTING PRESSURE SEWER RETICULATION
- STORMWATER PIPEWORK
- STOP VALVE
- HYDRANT
- FLUSHING HYDRANT
- PROPERTY SERVICE CONNECTION
- LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- HORIZONTAL BEND ANGLES IN MAIN
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS
- TOTAL 33 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 16 x SHORT SIDE
 - 1 x LONG SIDE
- SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 8 x SHORT SIDE
 - 0 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	690
DN20 (LATERAL)	PE100 PN16	165

- NOTES:
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 303.
 - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

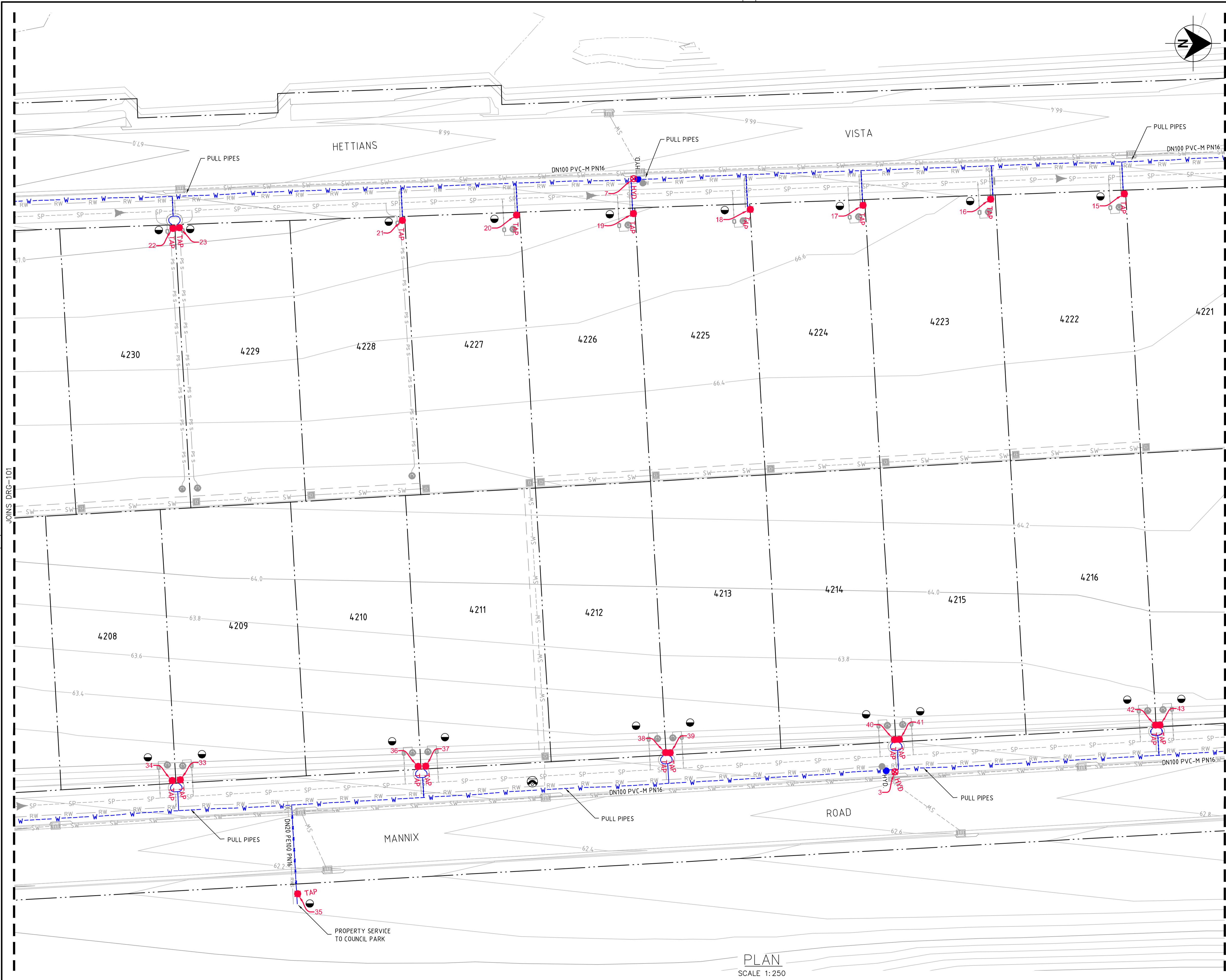
CONSTRUCTION ISSUE

240037(42)-WAC-101

JOINS DRG-101

JOINS DRG-103

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



PLAN
SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	08.10.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	
0	16.02.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	04.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
3	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
4	04.08.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
5	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
6	16.05.2023	WORK AS CONSTRUCTED	I.B.	C.B.	G.S.	C.B.	

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.	G.S.	C.B.	
G.S.	C.B.	G.S.	C.B.	
G.S.	C.B.	G.S.	C.B.	
I.B.	C.B.	G.S.	C.B.	

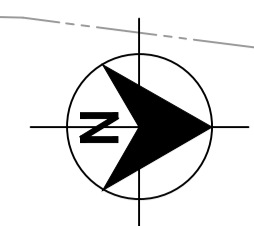
Hunter Office
Unit 7/335 Hillsborough Rd
Warners Bay N.S.W. 2282
Phone: (02) 4978 5100
Fax: (02) 4978 5199
email: hunter@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION
STAGE 42
HUNTLEE

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 2		
PROJECT No.	240037(42)	DISCIPLINE	WAC
NUMBER	102	REV.	6



WORK AS CONSTRUCTED
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/04/2023 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 COMPANY
 NAME DAVID IAN TURNER NAME
 SIGNED DATE 16/05/2023 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

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

- LEGEND**
- W PVC-M POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - SP PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - EX PW EXISTING POTABLE WATER RETICULATION
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - SW STORMWATER PIPEWORK
 - SV STOP VALVE
 - 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 ANGLES IN MAIN
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 33 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 16 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 8 x SHORT SIDE
 - 0 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	690
DN20 (LATERAL)	PE100 PN16	165

- NOTES:**
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT
 2. FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 TO 203
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

CONSTRUCTION ISSUE

240037(42)-WAC-101

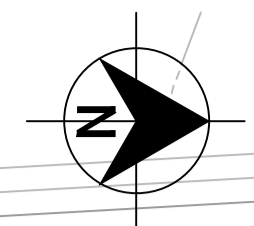
JOINS DRG-102

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



PLAN
 SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 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@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	 CLIENT	PROPERTY DESCRIPTION PROPOSED SUBDIVISION STAGE 42 HUNTLEE	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION			
PLAN TITLE																
POTABLE WATER DETAIL PLAN - SHEET 3																
DESIGN FILE N:	\JOBNUMBER\Design\120\							ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE					PROJECT No.	DISCIPLINE	NUMBER	REV.
Plotted By:	iainb		Plot Date:		19/05/23 - 09:06		Cad File:		\jserver10\adw-data\240072\DWG\Water & Sewer\Stage 42-WAC\240037(42)-WAC-101.dwg			240037(42)	- WAC	- 103	6	



WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/04/2023 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 COMPANY
 NAME DAVID IAN TURNER NAME
 SIGNED DATE 16/05/2023 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

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

- LEGEND**
- RW RW PVC-M RECYCLED WATER RETICULATION
 - RWS RWS RECYCLED WATER PROPERTY SERVICE
 - W W PVC-M POTABLE WATER RETICULATION
 - PWS PWS POTABLE WATER PROPERTY SERVICE
 - SP SP PE PRESSURE SEWER RETICULATION
 - PS S PS S PE PRESSURE SEWER PROPERTY SERVICE
 - EX RW EX RW EXISTING RECYCLED WATER RETICULATION
 - EX PW EX PW EXISTING POTABLE WATER RETICULATION
 - EX PS EX PS EXISTING PRESSURE SEWER RETICULATION
 - SW SW STORMWATER PIPEWORK
 - SV SV STOP VALVE
 - HYD HYD HYDRANT
 - FL HYD FL HYD FLUSHING HYDRANT
 - PROPERTY SERVICE CONNECTION
 - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - 1125° 225° HORIZONTAL BEND ANGLE IN MAIN
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 33 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 17 x SHORT SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 8 x SHORT SIDE
 - 0 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	688
DN63	PE100 PN16	15
DN25 (LATERAL)	PE100 PN16	135

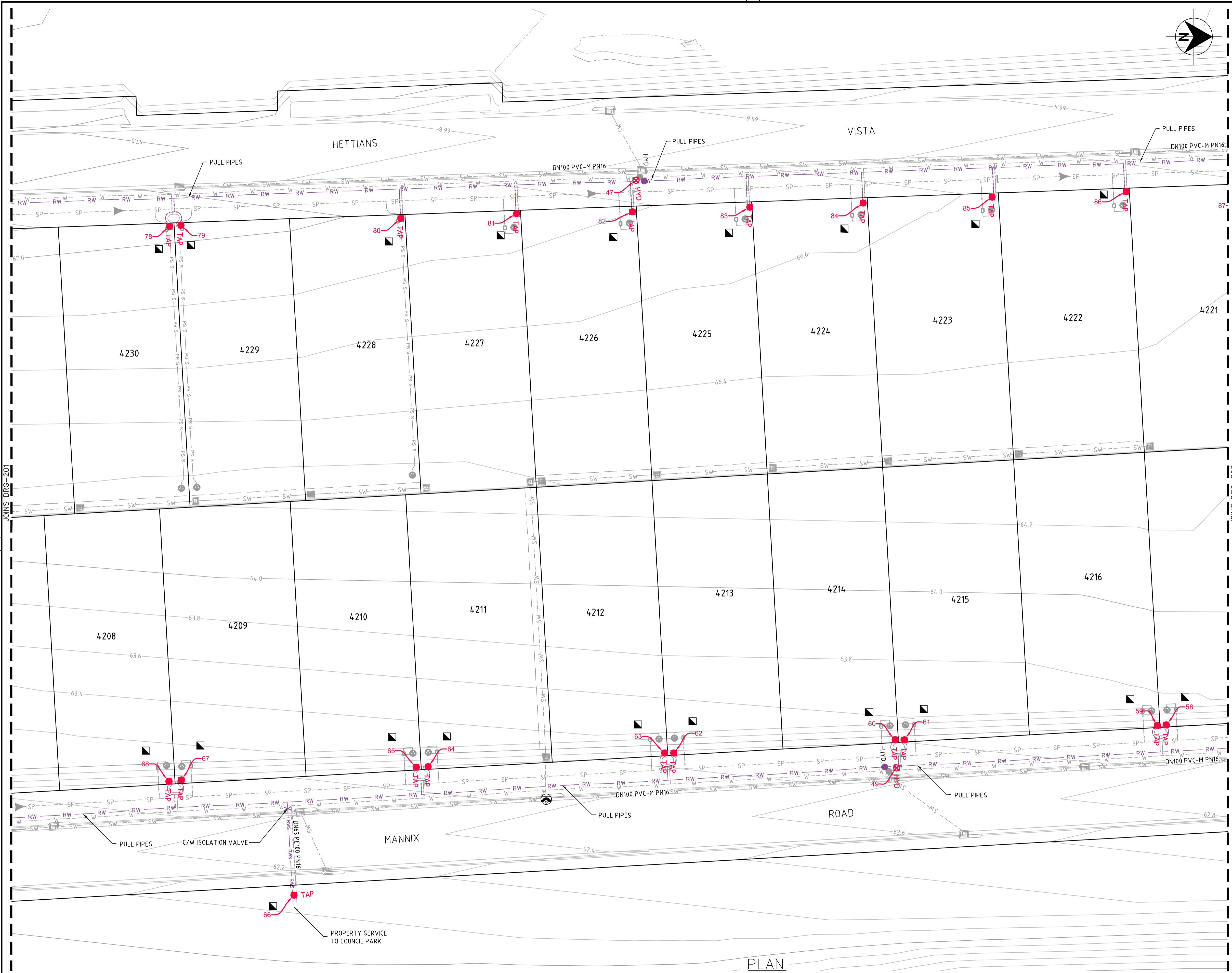
- NOTES:**
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 2. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
 3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 303.
 4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

CONSTRUCTION ISSUE

240037(42)-WAC-201

JOINS DRG-201

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



PLAN
 SCALE 1:250

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	08.10.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	
0	16.02.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	04.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
3	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
4	04.08.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
5	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
6	16.05.2023	WORK AS CONSTRUCTED	I.B.	C.B.	G.S.	C.B.	

DESIGN FILE N:\JOBNUMBER\Design\120\

ALL DIMENSIONS ARE IN METRES U.N.O. 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@adwjohnson.com.au
 www.adwjohnson.com.au
 ABN 62 129 445 398

CLIENT

PROPERTY DESCRIPTION

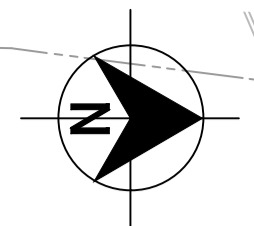
PROPOSED SUBDIVISION
 STAGE 42
 HUNTLEE

SURVEYED
 Daly-Smith Pty Ltd

DATUM
 GDA94 M.G.A. ZONE 56

A.H.D.

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	RECYCLED WATER DETAIL PLAN - SHEET 2		
PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(42)	WAC	202	6



WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/04/2023 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 COMPANY
 NAME DAVID IAN TURNER NAME
 SIGNED DATE 16/05/2023 SIGNED DATE
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

ORIGIN OF W.A.C. LEVELS

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

- LEGEND**
- RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - W PVC-M POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - SP PE PRESSURE SEWER RETICULATION
 - PS PE PRESSURE SEWER PROPERTY SERVICE
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - EX PW EXISTING POTABLE WATER RETICULATION
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - SW STORMWATER PIPEWORK
 - SV STOP VALVE
 - 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 ANGLES IN MAIN
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**
- TOTAL 33 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
 - 17 x LONG SIDE
 - 1 x LONG SIDE
 - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
 - 8 x SHORT SIDE
 - 0 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	688
DN63	PE100 PN16	15
DN25 (LATERAL)	PE100 PN16	135

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
 - 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.

240037(42)-WAC-201

JOHNS DRG-202

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



PLAN
SCALE 1:250

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.	
A	08.10.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	altogether.	PROPOSED SUBDIVISION STAGE 42 HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	RECYCLED WATER DETAIL PLAN - SHEET 3	240037(42)	WAC	203	6
0	16.02.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.										
2	04.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.										
3	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.										
4	04.08.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.										
5	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.										
6	16.05.2023	WORK AS CONSTRUCTED	I.B.	C.B.	G.S.	C.B.										



WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/04/2023 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 COMPANY
 NAME DAVID IAN TURNER NAME
 SIGNED REGISTERED SURVEYOR DATE 16/05/2023 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

LEGEND

- SP SP PE PRESSURE SEWER RETICULATION
- PS S PS S PE PRESSURE SEWER PROPERTY SERVICE
- W PVC-M POTABLE WATER RETICULATION
- PWS PWS POTABLE WATER PROPERTY SERVICE
- RW RW PVC-M RECYCLED WATER RETICULATION
- RWS RWS RECYCLED WATER PROPERTY SERVICE
- EX PS EX PS EXISTING PRESSURE SEWER RETICULATION
- EX PW EX PW EXISTING POTABLE WATER RETICULATION
- EX RW EX RW EXISTING RECYCLED WATER RETICULATION
- SW SW STORMWATER PIPEWORK
- ISOLATION VALVE
- ISOLATION VALVE - NORMALLY CLOSED
- FLUSHING POINT
- WASTEWATER COLLECTION TANK AND BOUNDARY KIT
- PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
- PRESSURE SEWER TEMPORARY FLOW DIRECTION
- PROPERTY SERVICE CONNECTION
- LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
- PROPOSED EASEMENT
- SUBDIVISION STAGE BOUNDARY

PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 32 CONNECTIONS
 • SINGLE SERVICES
 - 32 x SHORT SIDE
 - 0 x LONG SIDE

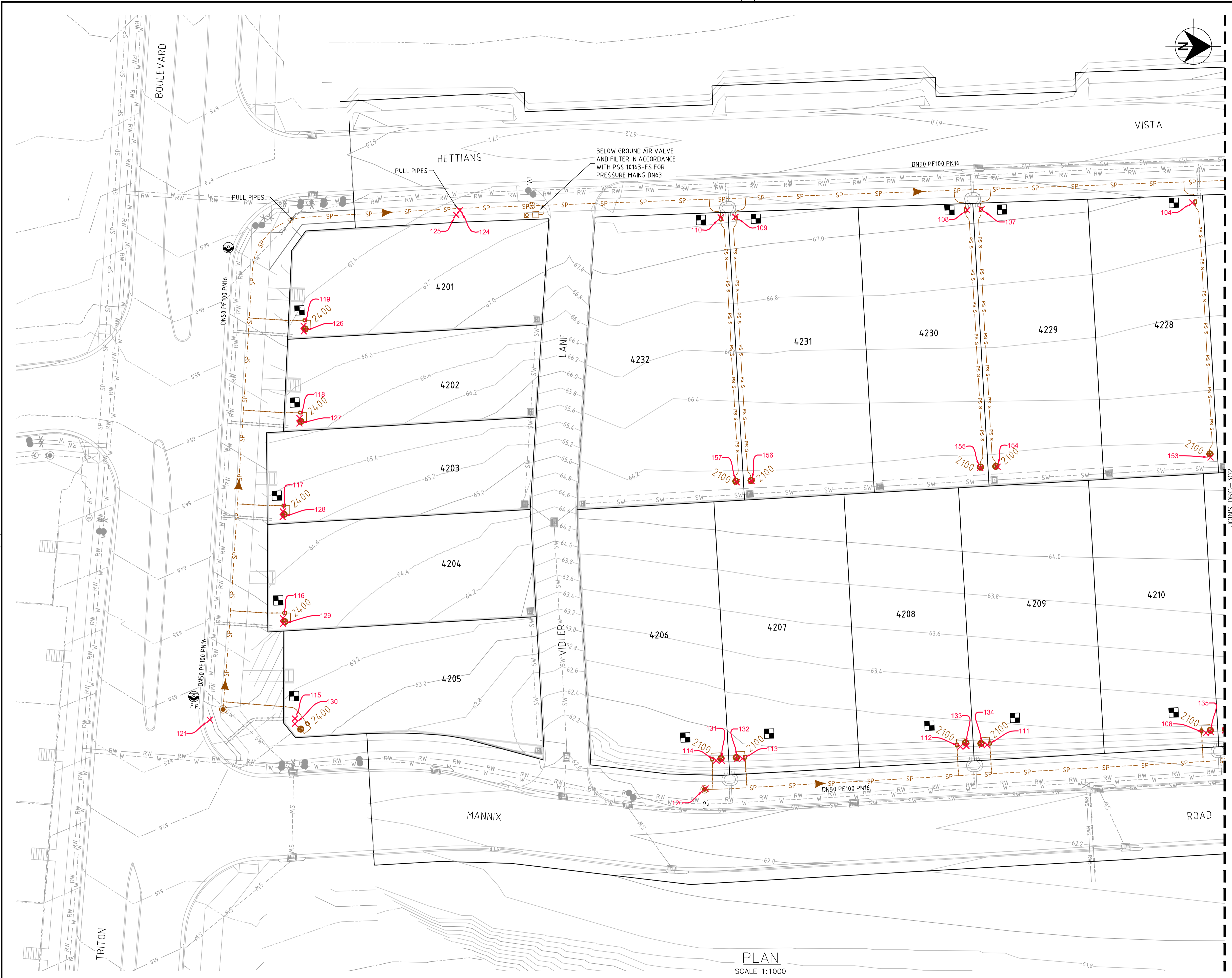
PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 SDR11	146
DN50	PE100 SDR11	492
DN4.0 (LATERAL)	PE100 SDR11	369

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 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).

CONSTRUCTION ISSUE

240037(42)-WAC-301

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



PLAN
SCALE 1:1000

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 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@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT PROPOSED SUBDIVISION STAGE 42 HUNTLEE	PROPERTY DESCRIPTION PROPOSED SUBDIVISION STAGE 42 HUNTLEE	PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION								
PLAN TITLE																				
PRESSURE SEWER DETAIL PLAN - SHEET 1																				
SURVEYED		Daly,Smith Pty Ltd		DATUM		GDA94 M.G.A. ZONE 56					A.H.D.		PROJECT No.	240037(42)	DISCIPLINE	WAC	NUMBER	301	REV.	6



WORK AS CONSTRUCTED
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/04/2023 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 ADJohnson Pty Ltd COMPANY
 NAME DAVID IAN TURNER NAME
 SIGNED DATE 16/05/2023 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: 638278.917 MGA Zone: 56
 RL: 77.675m

- LEGEND**
- SP SP PE PRESSURE SEWER RETICULATION
 - PS S PS S PE PRESSURE SEWER PROPERTY SERVICE
 - W W PVC-M POTABLE WATER RETICULATION
 - PWS PWS POTABLE WATER PROPERTY SERVICE
 - RW RW PVC-M RECYCLED WATER RETICULATION
 - RWS RWS RECYCLED WATER PROPERTY SERVICE
 - EX PS EX PS EXISTING PRESSURE SEWER RETICULATION
 - EX PW EX PW EXISTING POTABLE WATER RETICULATION
 - EX RW EX RW EXISTING RECYCLED WATER RETICULATION
 - SW SW STORMWATER PIPEWORK
 - ⊗ ISOLATION VALVE
 - ⊗ ISOLATION VALVE - NORMALLY CLOSED
 - ⊙ FLUSHING POINT
 - ⊙ WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - ➔ PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
 - ➔ PRESSURE SEWER TEMPORARY FLOW DIRECTION
 - PROPERTY SERVICE CONNECTION
 - ⊙ LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED EASEMENT
 - - - SUBDIVISION STAGE BOUNDARY

PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 32 CONNECTIONS
 • SINGLE SERVICES
 - 32 x SHORT SIDE
 - 0 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 SDR11	146
DN50	PE100 SDR11	492
DN40 (LATERAL)	PE100 SDR11	369

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 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.
 - 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).

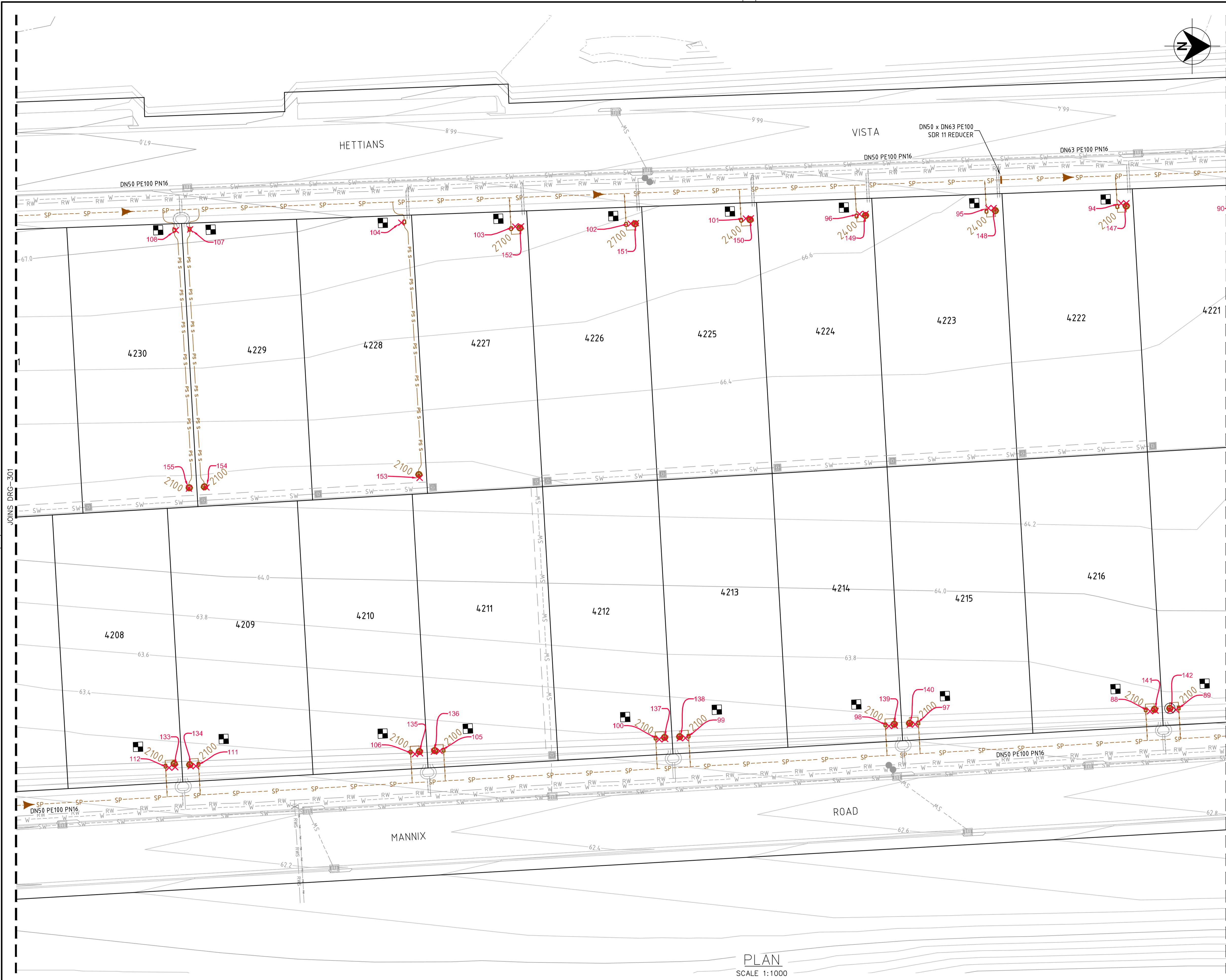
CONSTRUCTION ISSUE

240037(42)-WAC-301

JOINS DRG-301

JOINS DRG-303

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



PLAN
 SCALE 1:1000

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	 CLIENT	PROPERTY DESCRIPTION PROPOSED SUBDIVISION STAGE 42 HUNTLEE	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	PLAN TITLE PRESSURE SEWER DETAIL PLAN - SHEET 2	PROJECT No. 240037(42)	DISCIPLINE WAC	NUMBER 302	REV. 6	
A	08.10.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	0 5.0 10.0 12.5m SCALE: 1:250 (FULL)										
0	16.02.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.											
2	04.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.											
3	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.											
4	04.08.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.											
5	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.											
6	16.05.2023	WORK AS CONSTRUCTED	I.B.	C.B.	G.S.	C.B.											



WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/04/2023 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	COMPANY	
NAME	DAVID IAN TURNER	NAME	
SIGNED		DATE	16/05/2023
	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		

- LEGEND**
- SP PE PRESSURE SEWER RETICULATION
 - PS S PE PRESSURE SEWER PROPERTY SERVICE
 - W PVC-M POTABLE WATER RETICULATION
 - PWS POTABLE WATER PROPERTY SERVICE
 - RW PVC-M RECYCLED WATER RETICULATION
 - RWS RECYCLED WATER PROPERTY SERVICE
 - EX PS EXISTING PRESSURE SEWER RETICULATION
 - EX PW EXISTING POTABLE WATER RETICULATION
 - EX RW EXISTING RECYCLED WATER RETICULATION
 - SW STORMWATER PIPEWORK
 - ISOLATION VALVE
 - ISOLATION VALVE - NORMALLY CLOSED
 - FLUSHING POINT
 - WASTEWATER COLLECTION TANK AND BOUNDARY KIT
 - PRESSURE SEWER FLOW DIRECTION (SEE NOTE 7)
 - PRESSURE SEWER TEMPORARY FLOW DIRECTION
 - PROPERTY SERVICE CONNECTION
 - LAY PRESSURE SEWER MAIN UNDER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
 - PROPOSED EASEMENT
 - SUBDIVISION STAGE BOUNDARY

■ PRESSURE SEWER PROPERTY SERVICE CONNECTIONS
 TOTAL 32 CONNECTIONS
 • SINGLE SERVICES
 - 32 x SHORT SIDE
 - 0 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN63	PE100 SDR11	146
DN50	PE100 SDR11	492
DN40 (LATERAL)	PE100 SDR11	369

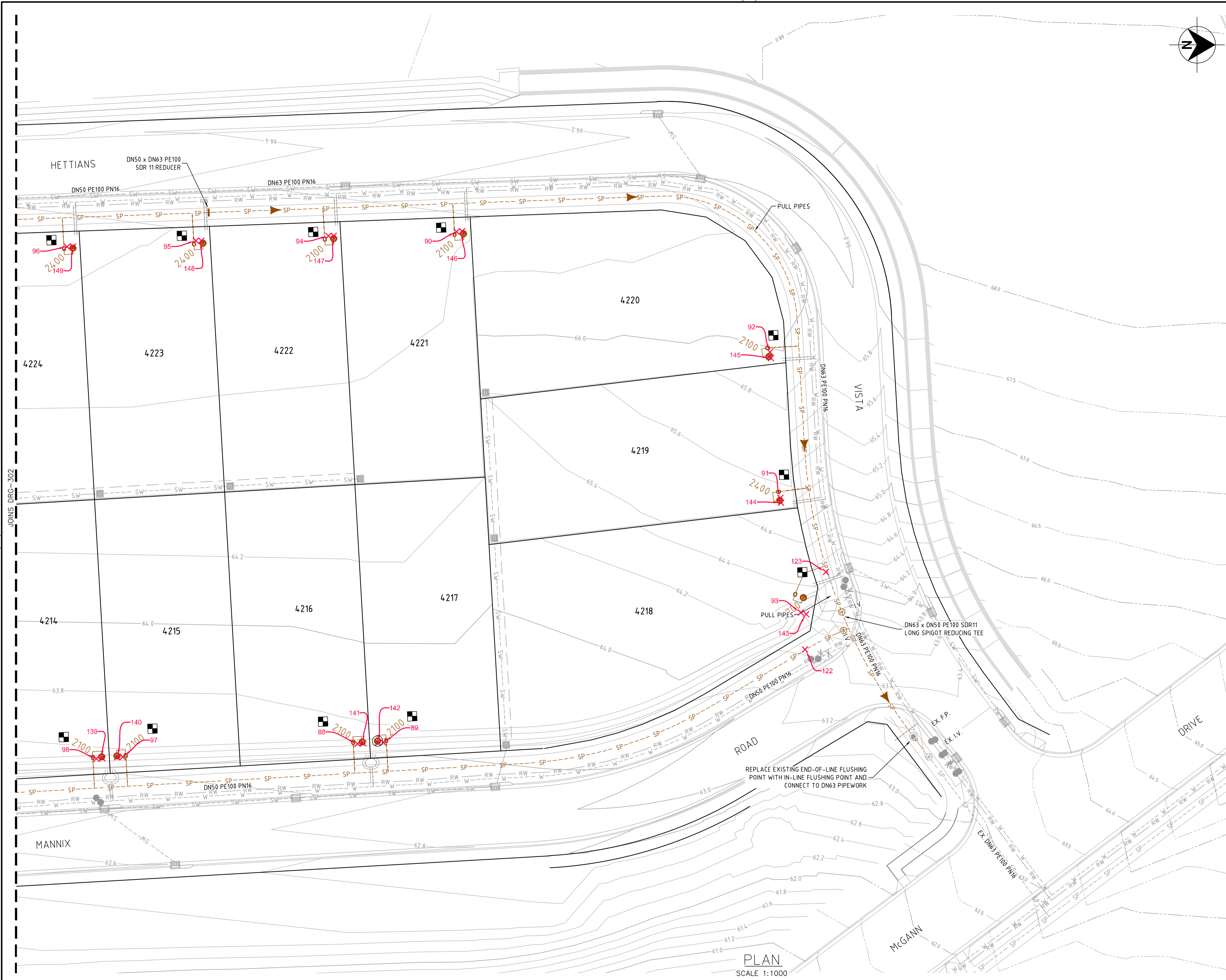
- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 TO 103.
 - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 203.
 - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.
 - FOR FLUSHING POINT TYPICAL DETAILS REFER TO STANDARD DRAWING PSS-1017-FS.
 - FOR FLOW MONITORING 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).

CONSTRUCTION ISSUE

240037(42)-WAC-301

JOINS DRG-302

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



PLAN
SCALE 1:1000

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 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@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION PROPOSED SUBDIVISION STAGE 42 HUNTLEE	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	PLAN TITLE PRESSURE SEWER DETAIL PLAN - SHEET 3	PROJECT No. 240037(42)	DISCIPLINE WAC	NUMBER 303	REV. 6
A	08.10.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.											
0	16.02.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.											
2	04.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.											
3	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.											
4	04.08.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.											
5	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.											
6	16.05.2023	WORK AS CONSTRUCTED	I.B.	C.B.	G.S.	C.B.											



240037(42)-WAC-400

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

Point Table				
Point #	Eastings	Northings	Levels	Codes
1	346389.03	638344.66	64.53	waHYD
2	346402.09	638343.40	63.37	waHYD
3	346420.48	6383350.98	62.76	waHYD
4	346427.11	6383213.52	62.03	waHYD
5	346350.64	6383167.57	66.97	waHYD
6	346347.91	6383195.12	67.23	waHYD
7	346343.19	6383316.90	66.74	waHYD
8	346349.51	6383168.51	66.96	waSV
9	346389.97	638344.678	64.43	waSV
10	346401.50	638344.30	63.49	waSV
11	346394.72	638344.207	64.29	waTAP
12	346380.50	638344.012	65.23	waTAP
13	346362.45	6383438.55	65.83	waTAP
14	346344.41	6383397.47	66.37	waTAP
15	346345.13	6383380.87	66.45	waTAP
16	346345.82	6383363.44	66.61	waTAP
17	346346.64	6383346.81	66.63	waTAP
18	346347.18	6383332.10	66.71	waTAP
19	346347.73	6383316.86	66.86	waTAP
20	346347.93	6383301.63	66.84	waTAP
21	346348.62	6383286.75	66.94	waTAP
22	346349.68	6383256.83	67.01	waTAP
23	346349.57	6383257.67	67.04	waTAP
24	346350.55	6383225.62	67.22	waTAP
25	346350.58	6383224.83	67.21	waTAP
26	346364.76	6383169.06	67.25	waTAP
27	346377.02	6383168.53	66.44	waTAP
28	346388.85	6383166.27	65.28	waTAP
29	346402.70	6383166.30	64.61	waTAP
30	346415.80	6383168.32	63.09	waTAP
31	346423.45	6383224.95	62.29	waTAP
32	346423.48	6383225.91	62.28	waTAP
33	346421.54	6383257.80	62.51	waTAP
34	346421.65	6383256.77	62.48	waTAP
35	346436.40	6383273.12	62.45	waTAP
36	346419.79	6383288.83	62.68	waTAP
37	346419.77	6383289.80	62.64	waTAP
38	346417.98	6383321.08	62.75	waTAP
39	346418.01	6383321.68	62.77	waTAP
40	346416.27	6383350.93	62.96	waTAP
41	346416.25	6383351.56	62.96	waTAP
42	346414.37	6383384.96	63.10	waTAP
43	346414.35	6383385.54	63.11	waTAP
44	346350.95	6383168.04	66.99	waHYDR
45	346348.41	6383195.24	67.25	waHYDR
46	346426.60	6383213.35	62.02	waHYDR
47	346343.67	6383317.04	66.74	waHYDR
48	346389.17	6383445.93	64.55	waHYDR
49	346419.90	6383350.85	62.78	waHYDR
50	346401.78	638343.01	63.39	waHYDR
51	346390.12	638344.623	64.42	waSVR
52	346401.15	638343.92	63.49	waSVR
53	346349.87	6383168.99	66.96	waSVR
54	346362.40	6383438.55	65.85	waTAPR
55	346380.75	6383440.11	65.25	waTAPR

Point Table				
Point #	Eastings	Northings	Levels	Codes
56	346394.55	6383441.91	64.31	waTAPR
58	346414.31	6383385.84	63.12	waTAPR
59	346414.40	6383384.68	63.07	waTAPR
60	346416.25	6383350.66	62.96	waTAPR
61	346416.25	6383351.88	62.93	waTAPR
62	346417.98	6383321.95	62.82	waTAPR
63	346417.97	6383320.77	62.81	waTAPR
64	346419.75	6383290.06	62.63	waTAPR
65	346419.83	6383288.55	62.67	waTAPR
66	346436.42	6383272.67	62.44	waTAPR
67	346421.49	6383258.08	62.52	waTAPR
68	346421.69	6383256.45	62.60	waTAPR
69	346423.45	6383224.64	62.31	waTAPR
70	346423.46	6383226.27	62.28	waTAPR
71	346415.52	6383168.27	63.04	waTAPR
72	346402.44	6383166.30	64.56	waTAPR
73	346388.57	6383166.31	65.32	waTAPR
74	346376.77	6383168.56	66.41	waTAPR
75	346364.49	6383169.05	67.23	waTAPR
76	346350.54	6383225.95	67.24	waTAPR
77	346350.58	6383224.46	67.22	waTAPR
78	346349.68	6383256.51	67.01	waTAPR
79	346349.52	6383257.98	67.01	waTAPR
80	346348.63	6383286.52	66.93	waTAPR
81	346347.98	6383301.54	66.84	waTAPR
82	346347.75	6383316.57	66.85	waTAPR
83	346347.15	6383331.79	66.75	waTAPR
84	346346.62	6383346.48	66.61	waTAPR
85	346345.83	6383363.22	66.61	waTAPR
86	346345.09	6383380.60	66.45	waTAPR
87	346344.40	6383397.19	66.35	waTAPR
88	346412.72	6383383.36	63.86	seBDYKIT
89	346412.53	6383386.74	63.91	seBDYKIT
90	346345.95	6383396.24	66.56	seBDYKIT
91	346380.63	6383438.46	65.57	seBDYKIT
92	346361.64	6383437.12	66.06	seBDYKIT
93	346395.57	6383441.16	64.37	seBDYKIT
94	346346.51	6383379.55	66.59	seBDYKIT
95	346347.14	6383362.26	66.82	seBDYKIT
96	346347.94	6383345.47	66.72	seBDYKIT
97	346414.42	6383352.73	63.74	seBDYKIT
98	346414.65	6383349.32	63.76	seBDYKIT
99	346416.23	6383322.78	63.55	seBDYKIT
100	346416.40	6383319.38	63.55	seBDYKIT
101	346348.52	6383330.64	66.89	seBDYKIT
102	346349.19	6383315.62	67.08	seBDYKIT
103	346349.57	6383300.58	67.01	seBDYKIT
104	346349.08	6383285.73	67.03	seBDYKIT
105	346417.93	6383290.75	63.34	seBDYKIT
106	346418.34	6383287.53	63.40	seBDYKIT
107	346349.95	6383258.20	67.18	seBDYKIT
108	346350.07	6383256.32	67.17	seBDYKIT
109	346350.96	6383226.07	67.32	seBDYKIT
110	346351.03	6383224.14	67.31	seBDYKIT

Point Table				
Point #	Eastings	Northings	Levels	Codes
111	346419.89	6383258.96	63.22	seBDYKIT
112	346420.12	6383255.47	63.24	seBDYKIT
113	346421.71	6383226.99	62.98	seBDYKIT
114	346421.96	6383223.58	62.99	seBDYKIT
115	346416.49	6383168.56	63.22	seBDYKIT
116	346403.38	6383166.99	64.68	seBDYKIT
117	346389.46	6383166.99	65.42	seBDYKIT
118	346377.27	6383169.16	66.66	seBDYKIT
119	346365.20	6383169.67	67.40	seBDYKIT
120	346425.61	6383222.18	62.09	seFP
121	346416.66	6383157.44	62.79	seFP
122	346400.40	6383444.169	63.43	seSV
123	346390.29	6383444.42	64.47	seSV
124	346350.12	6383190.09	67.18	seSV
125	346350.72	6383189.61	67.14	seSV
126	346365.91	6383169.70	67.44	seTANK4201
127	346377.95	6383169.15	66.68	seTANK4202
128	346390.17	6383166.96	65.48	seTANK4203
129	346404.12	6383167.02	64.71	seTANK4204
130	346417.18	6383168.55	63.28	seTANK4205
131	346421.98	6383224.32	63.04	seTANK4206
132	346421.76	6383226.28	63.05	seTANK4207
133	346420.05	6383256.27	63.27	seTANK4208
134	346419.94	6383258.27	63.26	seTANK4209
135	346418.22	6383288.19	63.43	seTANK4210
136	346418.01	6383290.00	63.36	seTANK4211
137	346416.34	6383320.14	63.57	seTANK4212
138	346416.24	6383322.06	63.58	seTANK4213
139	346414.58	6383350.07	63.79	seTANK4214
140	346414.47	6383352.02	63.79	seTANK4215
141	346412.66	6383384.09	63.88	seTANK4216
142	346412.59	6383386.00	63.94	seTANK4217
143	346395.79	6383441.83	64.40	seTANK4218
144	346381.26	6383438.56	65.62	seTANK4219
145	346362.40	6383437.23	66.12	seTANK4220
146	346345.88	6383396.96	66.57	seTANK4221
147	346346.51	6383380.24	66.64	seTANK4222
148	346347.14	6383362.97	66.86	seTANK4223
149	346347.91	6383346.25	66.80	seTANK4224
150	346348.48	6383331.31	66.92	seTANK4225
151	346349.13	6383316.32	67.11	seTANK4226
152	346349.55	6383301.34	67.06	seTANK4227
153	346382.34	6383288.13	66.21	seTANK4228
154	346383.58	6383260.32	66.24	seTANK4229
155	346383.72	6383258.04	66.24	seTANK4230
156	346385.46	6383228.18	66.28	seTANK4231
157	346385.62	6383226.25	66.31	seTANK4232

WORK AS CONSTRUCTED
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/04/2023 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 COMPANY
 NAME DAVID IAN TURNER NAME
 SIGNED DATE 16/05/2023 SIGNED _____ DATE ____/____/____
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

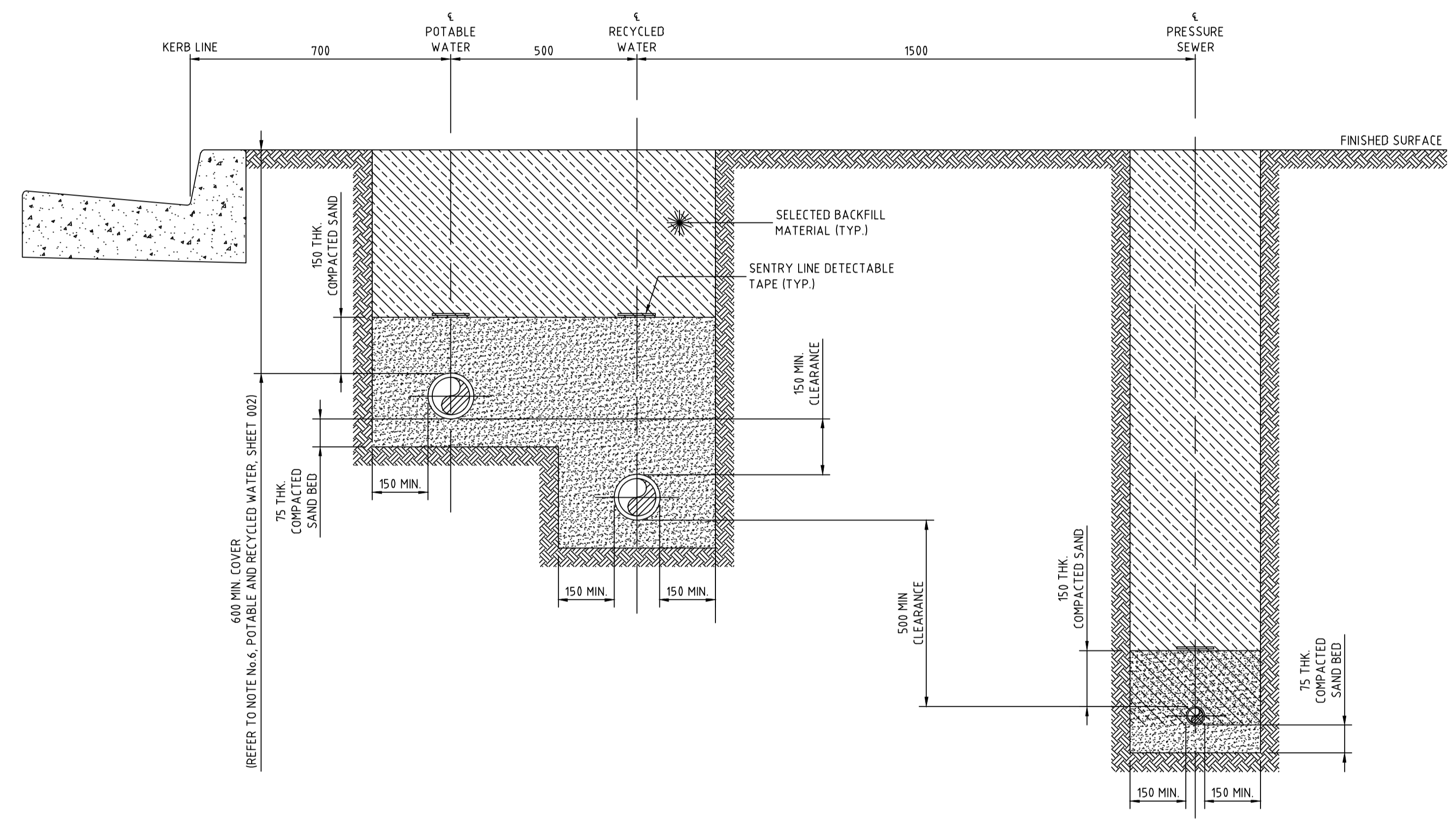
ORIGIN OF W.A.C. LEVELS
 PM: 20029
 E: 345612.942 Co-Ord System: MGA Ground
 N: 6382878.917 MGA Datum: GDA94
 RL: 77.675m MGA Zone: 56

CONSTRUCTION ISSUE

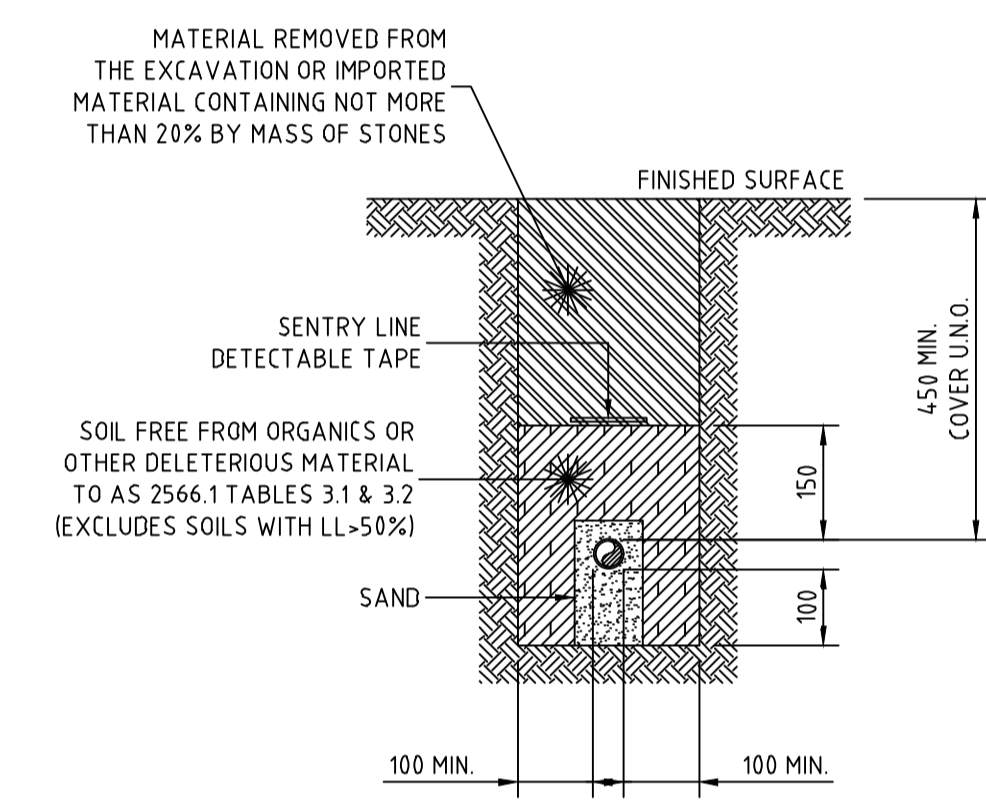
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	08.10.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	PROPOSED SUBDIVISION STAGE 42 HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	FITTINGS TABLE	240037(42)	WAC	400	6
0	16.02.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
2	04.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
3	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
4	04.08.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
5	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
6	16.05.2023	WORK AS CONSTRUCTED	I.B.	C.B.	G.S.	C.B.									



240037(42)-WAC-401



STREET PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10



PRIVATE PROPERTY PRESSURE MAIN
TYPICAL DETAIL
SCALE 1:10

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

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/04/2023 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 COMPANY
 NAME DAVID IAN TURNER NAME
 SIGNED [Signature] DATE 16/05/2023 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

CONSTRUCTION ISSUE

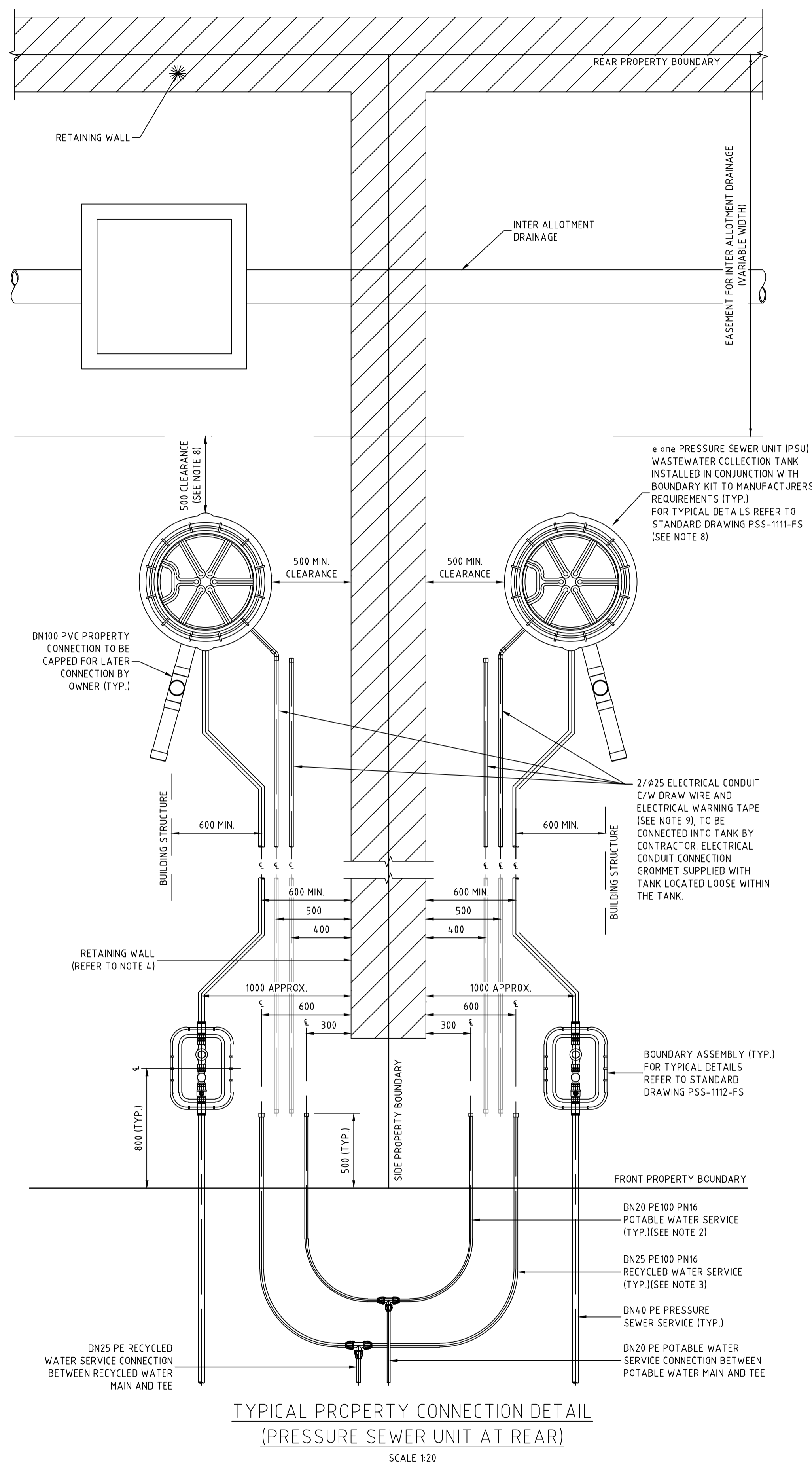
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE
A	08.10.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	PROPOSED SUBDIVISION STAGE 42 HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	TYPICAL PIPEWORK TRENCHING DETAILS
0	16.02.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.			Daly, Smith Pty Ltd	GDA94 M.G.A. ZONE 56 A.H.D.	PROJECT No. 240037(42) - DISCIPLINE WAC - NUMBER 401 - REV. 6
2	04.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.					
3	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.					
4	04.08.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.					
5	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.					
6	16.05.2023	WORK AS CONSTRUCTED	I.B.	C.B.	G.S.	C.B.					

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

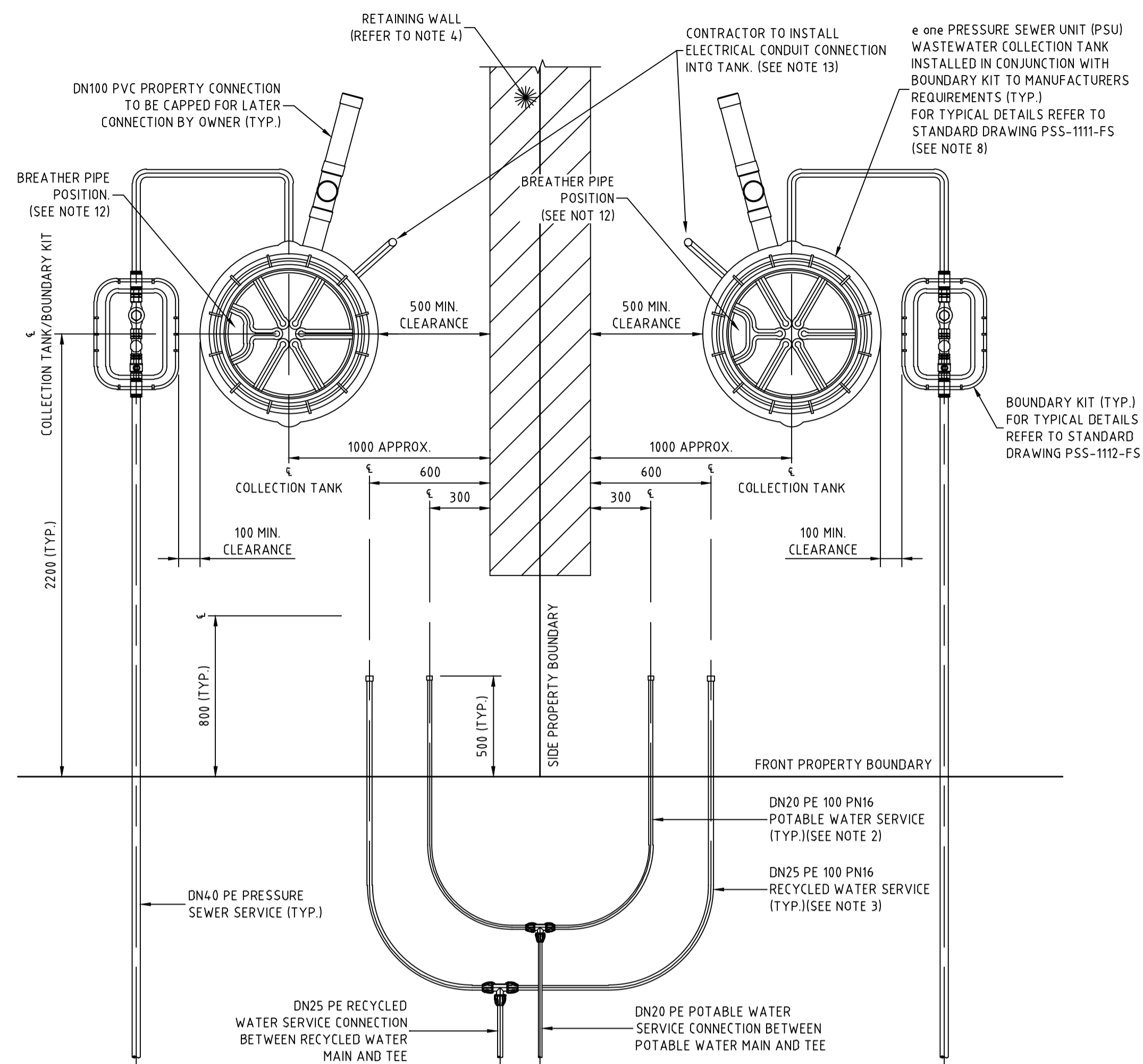


240037(42)-WAC-402

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



TYPICAL PROPERTY CONNECTION DETAIL
(PRESSURE SEWER UNIT AT REAR)
SCALE 1:20



TYPICAL PROPERTY CONNECTION DETAIL
SCALE 1:20

NOTES:

- PROPERTY SERVICE CONNECTIONS SHALL BE IN ACCORDANCE WITH WSA STANDARD DRAWINGS FOR DUAL WATER SUPPLY SYSTEMS (SYDNEY WATER VERSION) (SUPPLEMENT TO WSA 03-2011).
- DN20 PE100 PN16 POTABLE WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- DN25 PE100 PN16 RECYCLED WATER SERVICE TO EXTEND 500mm BEYOND PROPERTY BOUNDARY AND BE CAPPED FOR LATER CONNECTION BY PROPERTY OWNER.
- FOR PROPERTY CONNECTIONS WHERE A RETAINING WALL IS NOT PRESENT, SERVICES ARE TO BE OFFSET FROM THE PROPERTY BOUNDARY.
- WHERE SERVICE CONNECTIONS ARE LOCATED ADJACENT TO TELSTRA PITS/ELECTRICAL PILLARS, A MINIMUM CLEARANCE OF 200mm BETWEEN PITS AND SERVICE PIPEWORK IS TO BE MAINTAINED.
- MINIMUM BENDING RADIUS FOR PE PIPEWORK IS TO BE 20 x PIPE DIAMETER.
- ALL POLYETHYLENE FITTINGS SHALL BE JOINED USING ELECTROFUSION JOINTING TECHNIQUES IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. ROTATE BENDS AS NECESSARY.
- PRESSURE SEWER UNIT (PSU) IS TO HAVE 500mm CLEARANCE FROM INTER ALLOTMENT DRAINAGE EASEMENT (IF PRESENT), REAR PROPERTY BOUNDARY RETAINING WALL (IF PRESENT) OR REAR PROPERTY BOUNDARY. PRESSURE SEWER UNIT (PSU) IS TO HAVE 2150mm CLEARANCE FROM BUILDING STRUCTURES.
- ø25 ELECTRICAL CONDUIT IS TO EXTEND FROM CONNECTION WITH PRESSURE SEWER UNIT (PSU) TO NOM. 500mm INSIDE FRONT PROPERTY BOUNDARY AND BE CAPPED. ELECTRICAL CONDUIT IS TO BE HEAVY DUTY ORANGE. ALL CONDUIT BENDS ARE TO BE LARGE RADIUS SWEEP BENDS.
- FOR MORE INFORMATION REFER TO FLOW SYSTEMS STANDARD DRAWING FSI-1000-F5.
- 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-F5 AND FSI-SK03B-F5.
- POSITION TANK LID SUCH THAT BREATHER 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.

WORK AS CONSTRUCTED

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/04/2023 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	COMPANY	
NAME	DAVID IAN TURNER	NAME	
SIGNED		SIGNED	
REGISTERED SURVEYOR	DATE 16/05/2023	CONSTRUCTION MANAGER	DATE

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		

CONSTRUCTION ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	08.10.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3	Hunter Office	PROPOSED SUBDIVISION	POTABLE WATER, RECYCLED WATER AND		240037(42)	WAC	402	6
0	16.02.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	0 0.4 0.8 A1 / A3	Unit 7/335 Hillsborough Rd	STAGE 42	PRESSURE SEWER RETICULATION	TYPICAL PROPERTY CONNECTION DETAILS				
2	04.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	0 0.4 0.8 A1 / A3	Warners Bay N.S.W. 2282	HUNTLEE						
3	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		Phone: (02) 4978 5100							
4	04.08.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		Fax: (02) 4978 5199							
5	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		email: hunter@adwjohnson.com.au							
6	16.05.2023	WORK AS CONSTRUCTED	I.B.	C.B.	G.S.	C.B.		www.adwjohnson.com.au							
								ABN 62 129 445 398							



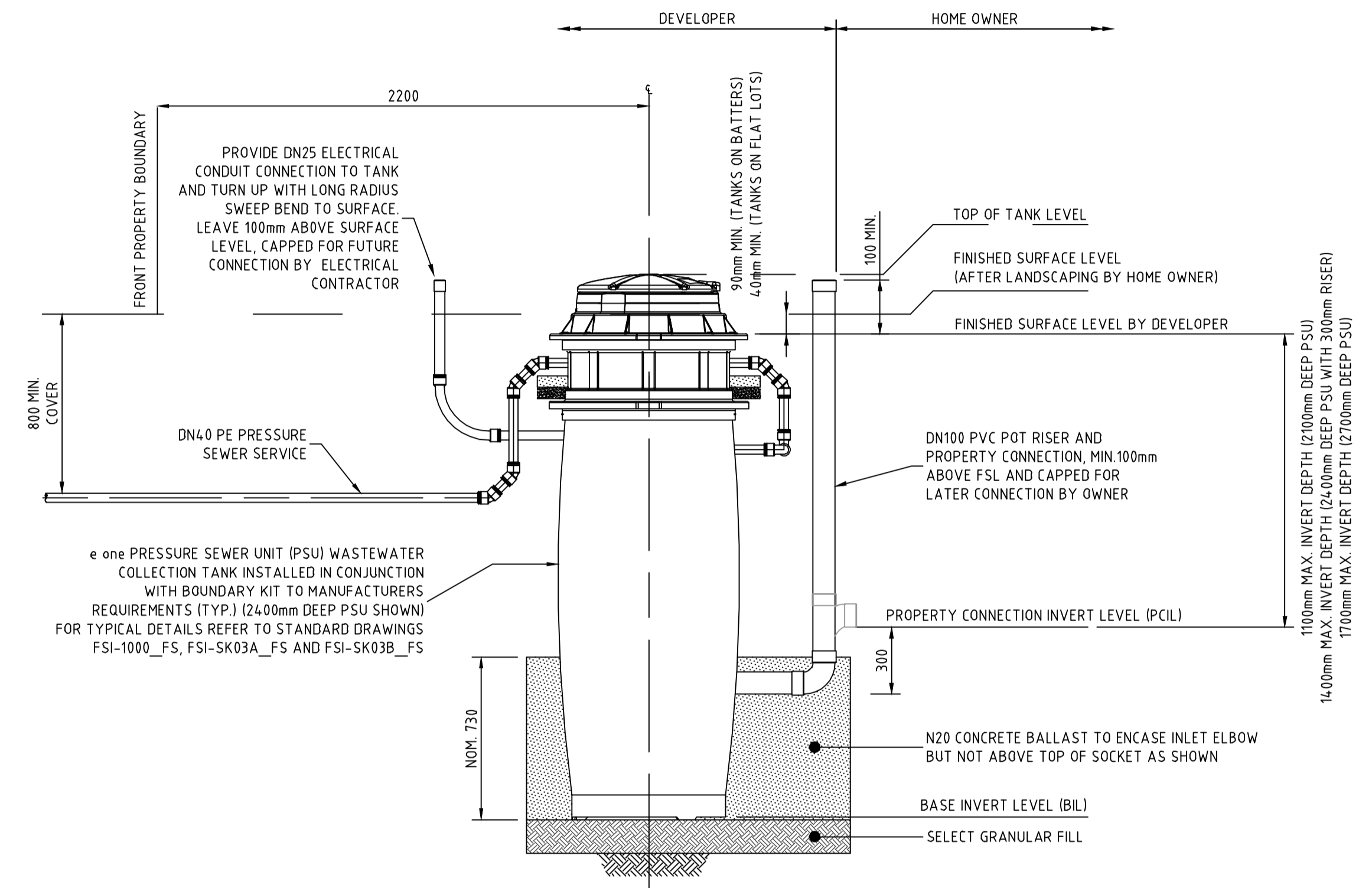
240037(42)-WAC-403

WASTEWATER COLLECTION TANK DETAILS

LOT NUMBER	TOP OF TANK	TANK FSL	BASE IL	CONNECTION IL	TANK HEIGHT	TANK LOCATION	EASTING	NORTHING	TOP OF COLLECTION TANK LID	CALCULATED WAC SANITARY DRAINAGE INVERT LEVEL	WAC V'S DESIGN INVERT LEVEL COMPARISON
4201	67.41	67.28	64.98	65.88	24.00	FRONT	346365.64	6383169.85	67.41	65.80	-0.08
4202	66.62	66.49	64.19	65.09	24.00	FRONT	346377.69	6383169.31	66.62	65.01	-0.08
4203	65.42	65.29	62.99	63.89	24.00	FRONT	346389.84	6383167.12	65.42	63.81	-0.08
4204	64.64	64.51	62.21	63.11	24.00	FRONT	346403.86	6383167.21	64.64	63.03	-0.08
4205	63.21	63.08	60.78	61.68	24.00	FRONT	346417.89	6383169.31	63.21	61.60	-0.08
4206	63.00	62.87	60.87	61.77	2100	FRONT	346420.10	6383224.11	63.00	61.69	-0.09
4207	63.05	62.92	60.92	61.82	2100	FRONT	346419.99	6383226.11	63.05	61.74	-0.09
4208	63.21	63.08	61.08	61.98	2100	FRONT	346418.26	6383256.06	63.21	61.90	-0.08
4209	63.22	63.09	61.09	61.99	2100	FRONT	346418.14	6383258.06	63.22	61.91	-0.09
4210	63.38	63.25	61.25	62.15	2100	FRONT	346416.42	6383288.01	63.38	62.07	-0.08
4211	63.38	63.25	61.25	62.15	2100	FRONT	346416.30	6383290.00	63.38	62.07	-0.08
4212	63.56	63.43	61.43	62.33	2100	FRONT	346414.57	6383319.95	63.56	62.25	-0.08
4213	63.55	63.42	61.42	62.32	2100	FRONT	346414.46	6383321.95	63.55	62.24	-0.09
4214	63.74	63.61	61.61	62.51	2100	FRONT	346412.84	6383349.90	63.74	62.43	-0.08
4215	63.75	63.62	61.62	62.52	2100	FRONT	346412.73	6383351.90	63.75	62.44	-0.09
4216	63.84	63.71	61.71	62.61	2100	FRONT	346410.88	6383383.85	63.84	62.53	-0.08
4217	63.87	63.74	61.74	62.64	2100	FRONT	346410.77	6383385.84	63.87	62.56	-0.09
4218	64.35	64.22	61.62	62.52	2700	FRONT BATTER	346393.64	6383441.48	64.35	62.44	-0.09
4219	65.60	65.47	63.17	64.07	24.00	FRONT	346380.99	6383438.37	65.60	63.99	-0.08
4220	66.09	65.96	63.96	64.86	2100	FRONT	346362.27	6383436.93	66.09	64.78	-0.08
4221	66.54	66.41	64.41	65.31	2100	FRONT	346346.25	6383397.14	66.54	65.23	-0.08
4222	66.62	66.49	64.49	65.39	2100	FRONT	346346.87	6383380.21	66.62	65.31	-0.08
4223	66.71	66.58	64.28	65.18	24.00	FRONT	346347.50	6383363.16	66.71	65.10	-0.09
4224	66.77	66.64	64.34	65.24	24.00	FRONT	346348.12	6383346.22	66.77	65.16	-0.08
4225	66.85	66.72	64.42	65.32	24.00	FRONT	346348.67	6383331.17	66.85	65.24	-0.08
4226	67.03	66.90	64.30	65.20	2700	FRONT	346349.22	6383316.18	67.03	65.12	-0.08
4227	66.99	66.86	64.26	65.16	2700	FRONT	346349.77	6383301.19	66.99	65.08	-0.08
4228	66.19	66.06	64.06	64.96	2100	REAR	346381.92	6383288.02	66.19	64.88	-0.08
4229	66.25	66.12	64.12	65.02	2100	REAR	346383.54	6383260.06	66.25	64.94	-0.08
4230	66.25	66.12	64.12	65.02	2100	REAR	346383.65	6383258.07	66.25	64.94	-0.08
4231	66.26	66.13	64.13	65.03	2100	REAR	346385.38	6383228.12	66.26	64.95	-0.08
4232	66.25	66.12	64.12	65.02	2100	REAR	346385.49	6383226.12	66.25	64.94	-0.08

WASTEWATER COLLECTION TANK COUNT

TANK SIZE	NUMBER OF
2100	20
2400	9
2700	3



PRESSURE SEWER SERVICE CONNECTION
TYPICAL SECTIONAL ELEVATION
SCALE 1:20

WORK AS CONSTRUCTED
THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/04/2023 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 COMPANY
NAME DAVID IAN TURNER NAME
SIGNED [Signature] DATE 16/05/2023 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

CONSTRUCTION ISSUE

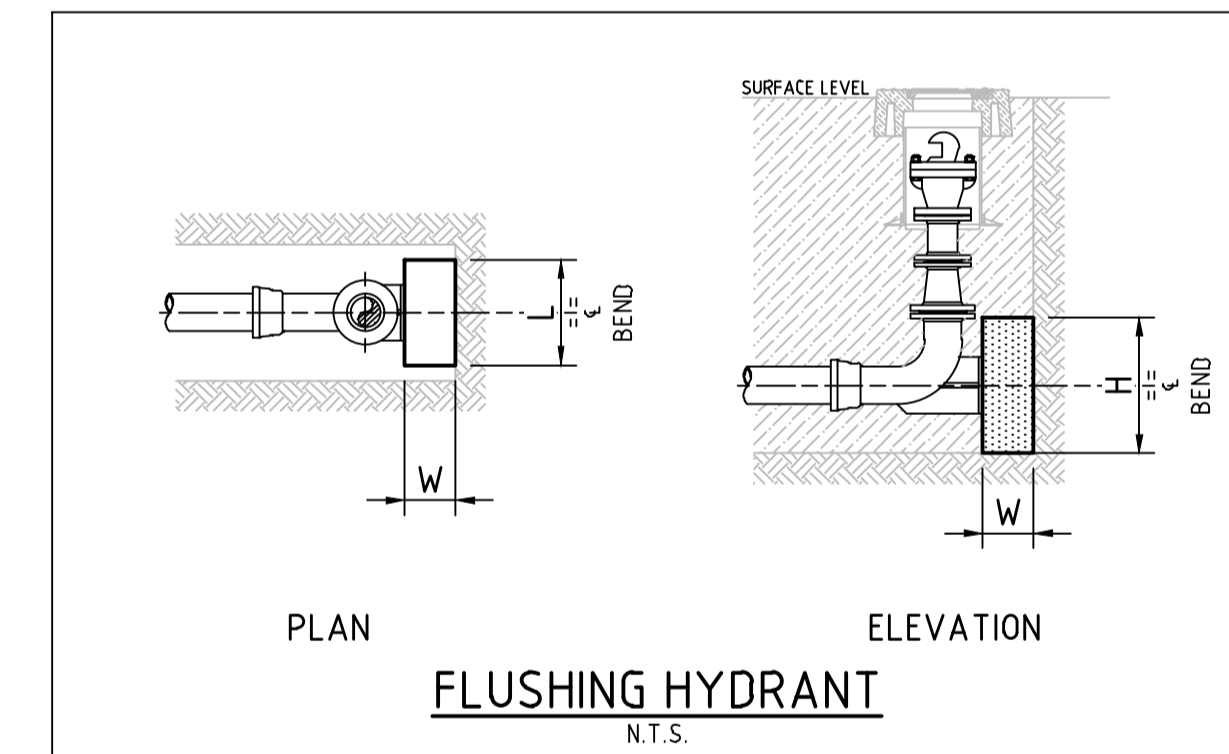
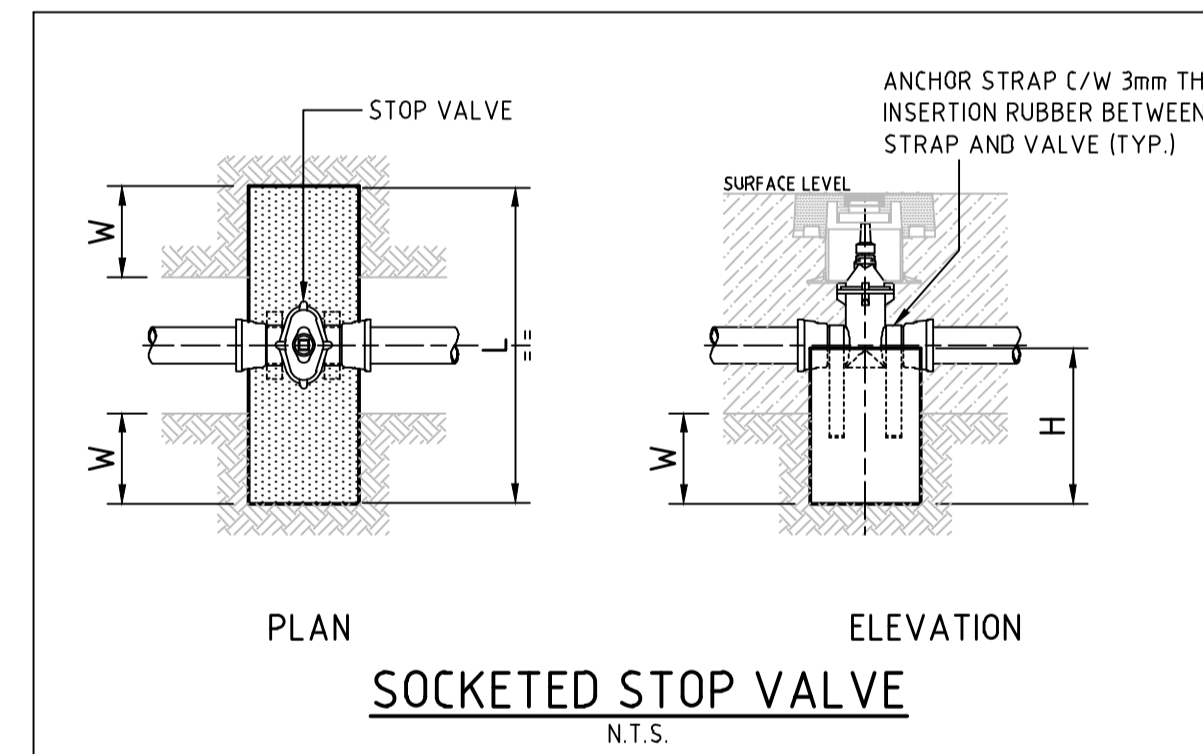
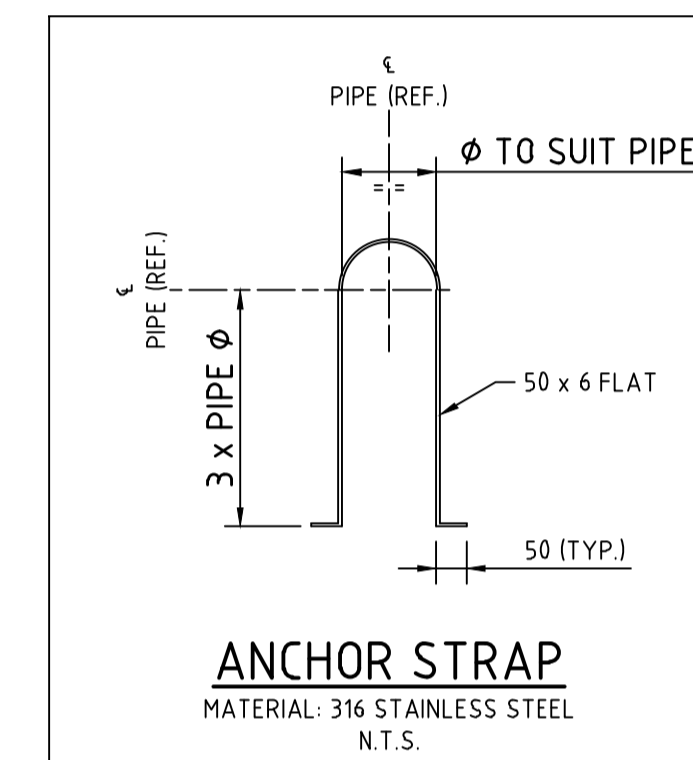
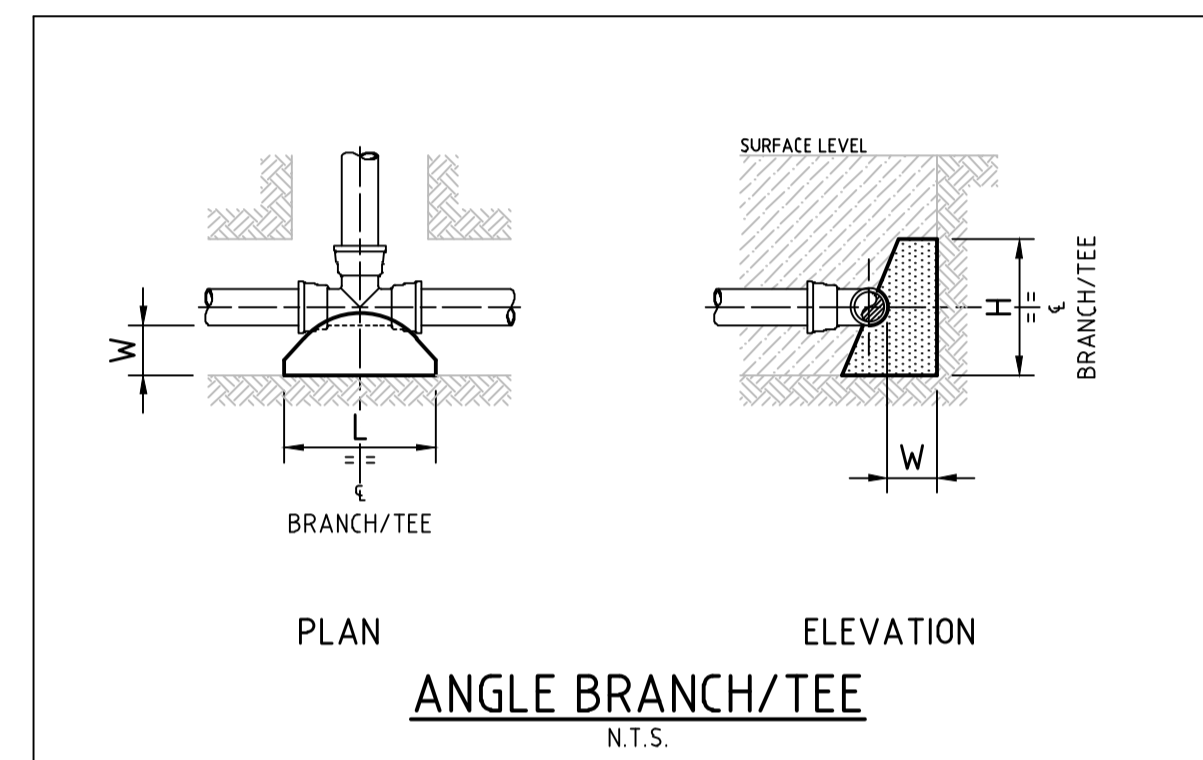
100mm AT FULL SIZE
This plan includes coloured information. If you have a black and white copy you do not have all of the information. This note is coloured RED.

<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>A</td> <td>08.10.2021</td> <td>INITIAL ISSUE</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td>0 0.1 0.2 0.3 0.4 A1 / A3</td> </tr> <tr> <td>0</td> <td>16.02.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td>1:10 / 1:20</td> </tr> <tr> <td>2</td> <td>04.03.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td>0 0.4 0.8 A1 / A3</td> </tr> <tr> <td>3</td> <td>03.06.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td>1:20 / 1:40</td> </tr> <tr> <td>4</td> <td>04.08.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>5</td> <td>21.09.2022</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> <tr> <td>6</td> <td>16.05.2023</td> <td>WORK AS CONSTRUCTED</td> <td>I.B.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td></td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	A	08.10.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3	0	16.02.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	1:10 / 1:20	2	04.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	0 0.4 0.8 A1 / A3	3	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	1:20 / 1:40	4	04.08.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		5	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		6	16.05.2023	WORK AS CONSTRUCTED	I.B.	C.B.	G.S.	C.B.		<p>DESIGN FILE: N:\JOBNUMBER\Design\12D\</p> <p>Plotted By: iainb Plot Date: 19/05/23 - 09:07 Cad File: \\pserver10\adw-data\240072\DWG\Water & Sewer\Stage 42-WAC\240037(42)-WAC-403.dwg</p>	<p>ALL DIMENSIONS ARE IN METRES U.N.O. DO NOT SCALE</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 STAGE 42 HUNTLEE</p>	<p>PROJECT</p> <p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>PLAN TITLE</p> <p>WASTE WATER COLLECTION TANK LEVEL DETAILS</p>	<table border="1"> <tr> <th>PROJECT No.</th> <th>DISCIPLINE</th> <th>NUMBER</th> <th>REV.</th> </tr> <tr> <td>240037(42)</td> <td>WAC</td> <td>403</td> <td>6</td> </tr> </table>	PROJECT No.	DISCIPLINE	NUMBER	REV.	240037(42)	WAC	403	6
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES																																																																									
A	08.10.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3																																																																									
0	16.02.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	1:10 / 1:20																																																																									
2	04.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	0 0.4 0.8 A1 / A3																																																																									
3	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	1:20 / 1:40																																																																									
4	04.08.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.																																																																										
5	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.																																																																										
6	16.05.2023	WORK AS CONSTRUCTED	I.B.	C.B.	G.S.	C.B.																																																																										
PROJECT No.	DISCIPLINE	NUMBER	REV.																																																																													
240037(42)	WAC	403	6																																																																													

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 AHP (kPa)	DESIGN STP (kPa)	THRUST	TA (m ²)	LENGTH (L)	HEIGHT (H)	WIDTH (W)
1	DN100 x DN100 EQUAL TEE	100	1500	18.00	0.18	0.45	0.40	0.30
2	DN100 x (45°, 22.5°, 11.25° & 6°) HORIZONTAL BENDS	100	1500	7.50	0.08	N	N	0.30
3	DN100 SOCKETED STOP VALVE	100	1500	18.00	0.18	1.05	0.44	0.30
4	DN100 FLUSHING HYDRANT	100	1500	18.00	0.18	0.45	0.40	0.30
5	DN100 x 90° HORIZONTAL BEND	100	1500	25.50	0.26	0.55	0.47	0.30



WORK AS CONSTRUCTED
THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 24/04/2023 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 COMPANY
NAME DAVID IAN TURNER NAME
SIGNED DATE 16/05/2023 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

CONSTRUCTION ISSUE

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

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	08.10.2021	INITIAL ISSUE	G.S.	C.B.	G.S.	C.B.		Hunter Office	PROPOSED SUBDIVISION	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION					
0	16.02.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282	STAGE 42						
2	04.03.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		Phone: (02) 4978 5100	HUNTLEE						
3	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		Fax: (02) 4978 5199							
4	04.08.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		email: hunter@adwjohnson.com.au							
5	21.09.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.		www.adwjohnson.com.au							
6	16.05.2023	WORK AS CONSTRUCTED	I.B.	C.B.	G.S.	C.B.		ABN 62 129 445 398							