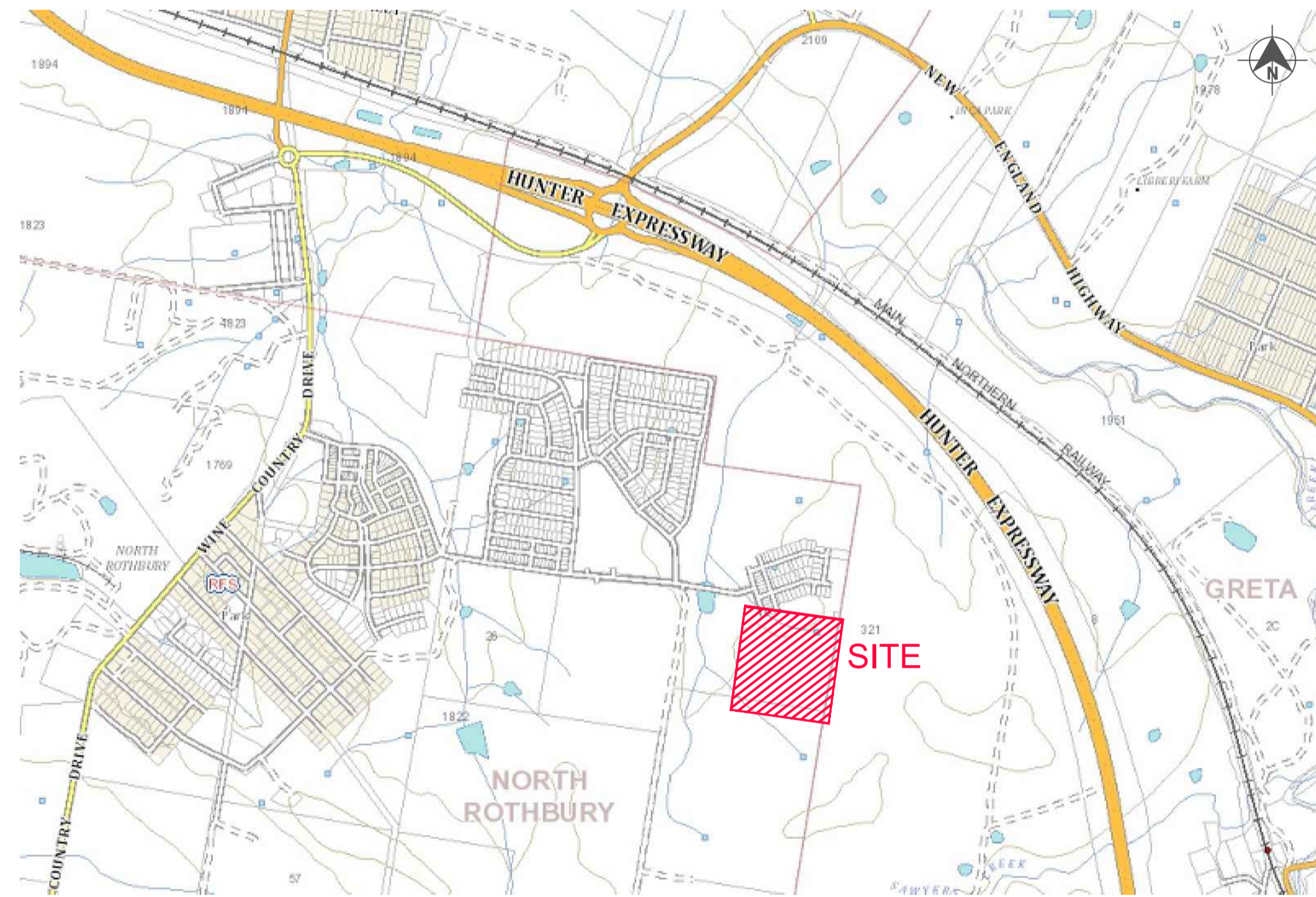




# PROPOSED SUBDIVISION STAGE 27 HUNTLEE



LOCALITY SKETCH  
NOT TO SCALE

DRAWING INDEX	
Sheet Title	Sheet Description
240037(27)-WAT-001	COVER SHEET, LOCALITY PLAN & DRAWING INDEX
240037(27)-WAT-002	GENERAL NOTES
240037(27)-WAT-003	OVERALL SITE PLAN
240037(27)-WAT-101	POTABLE WATER DETAIL PLAN - SHEET 1
240037(27)-WAT-102	POTABLE WATER DETAIL PLAN - SHEET 2
240037(27)-WAT-201	RECYCLED WATER DETAIL PLAN - SHEET 1
240037(27)-WAT-202	RECYCLED WATER DETAIL PLAN - SHEET 2
240037(27)-WAT-301	PRESSURE SEWER DETAIL PLAN - SHEET 1
240037(27)-WAT-302	PRESSURE SEWER DETAIL PLAN - SHEET 2
240037(27)-WAT-351	FITTINGS TABLE
240037(27)-WAT-401	TYPICAL PIPEWORK TRENCHING DETAILS
240037(27)-WAT-402	TYPICAL SERVICE CONNECTION DETAILS
240037(27)-WAT-403	WASTE WATER COLLECTION TANK LEVEL DETAILS
240037(27)-WAT-404	THRUST BLOCK DETAILS

**WORK AS CONSTRUCTED**  
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 14/07/2022 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 NAME  
 SIGNED *(Signature)* DATE 25/07/2022 SIGNED DATE  
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

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

**APPROVED FOR CONSTRUCTION**  
 BY ADW Johnson Pty Ltd  
 Date Approved: 03/06/2022

**WORK AS CONSTRUCTED**

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT		PROPERTY DESCRIPTION		PROJECT						
A	23.06.2021	PRELIMINARY 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 27 HUNTLEE		POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION						
B	16.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	PLAN TITLE											
0	25.08.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	COVER SHEET, LOCALITY PLAN & DRAWING INDEX											
1	15.09.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	SURVEYED					DATUM		PROJECT No.		DISCIPLINE		
2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	Daly.Smith Pty Ltd					GDA94 MGA56 A.H.D.		240037(27)		- WAC - 001		
3	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.							REV. 3					

**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 GENERALLY BE 1500mm. WHERE COVER FOR A TRENCHED INSTALLATION EXCEEDS 1500mm BUT LESS THAN 2500mm THE MAIN AS A MINIMUM SHALL BE EMBEDDED IN STABILISED SAND. THE CONTRACTOR SHALL ENSURE THAT ALL PRESSURE SEWER AND RECYCLED WATER MAINS HAVE SUFFICIENT VERTICAL SEPARATION AS PER THE CLEARANCE TABLE ADJACENT.
- 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](http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017A-FS.pdf) LARGE MAINS (> DN110) [http://information.altogethergroup.com.au/governance/Land\\_Housing/PSS-1017B-FS.pdf](http://information.altogethergroup.com.au/governance/Land_Housing/PSS-1017B-FS.pdf)
- LOCALISED DEEPENING OF MAINS MAY BE REQUIRED TO FACILITATE AIR VALVE INSTALLATION. THE CONTRACTOR SHALL ENSURE THAT THE AIR VALVE OFFTAKE IS LOCATED AT A HIGH POINT (NATURAL OR ARTIFICIAL) IN THE MAIN (i.e. MAIN SHALL GRADE DOWNWARDS EITHER SIDE OF THE AIR VALVE).
- DETECTABLE MARKING TAPE SHALL BE LAID ON TOP OF THE PIPE EMBEDMENT MATERIAL BEFORE BACKFILLING AND CONNECTED TO SURFACE FITTINGS.
- ALL SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
- DURING CONSTRUCTION, ALL OPEN ENDS OF PIPE SHALL BE CAPPED OFF TO PREVENT ENTRY OF FOREIGN MATTER.
- ALL VALVES SHALL BE RESILIENT SEATED SLUICE VALVES (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-8K4). 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 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 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](http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1854-FS.pdf) DUAL SERVICE: [http://information.altogethergroup.com.au/governance/Land\\_Housing/WAT-1855-FS.pdf](http://information.altogethergroup.com.au/governance/Land_Housing/WAT-1855-FS.pdf)
  - PROPERTY SERVICE CONNECTION IS SHALL BE FLUSHED AND LOCKED (BY THE ALTOGETHER REPRESENTATIVE) FOLLOWING SUCCESSFUL PRESSURE TESTING.
  - SURFACE FITTINGS LOCATED IN TRAFFICABLE AREAS (i.e. ROADWAYS, PATHS etc.) SHALL HAVE HEAVY DUTY SURROUNDS INSTALLED.
  - ALL MAINS SHALL BE PRESSURE TESTED TO 1500kPa IN ACCORDANCE WITH CLAUSE 19.4 OF WSA03-2011 (SYDNEY WATER EDITION 2014).
  - ALL MAINS SHALL BE FLUSHED WITH WATER TO REMOVE ANY DEBRIS PRIOR TO COMMISSIONING.
  - WATER QUALITY TESTING SHALL BE IN ACCORDANCE WITH WSA 03-2011-3.1 (SYDNEY WATER EDITION-2014. (CLAUSE 19.7)).
  - THE CONSTRUCTOR SHALL PROVIDE HUNTLEE WATER WITH MINIMUM OF 7 DAYS NOTICE IN WRITING OF INTENT TO CONNECT NEW MAINS TO EXISTING INFRASTRUCTURE. CONNECTIONS ARE NOT PERMITTED UNTIL COMPLIANT TEST RESULTS HAVE BEEN PROVIDED AND CONFIRMATION IS PROVIDED BY THE ALTOGETHER REPRESENTATIVE.
  - UPON COMPLETION OF WORKS, ALL SURFACES MUST BE RESTORED AS CLOSE AS POSSIBLE, TO THE CONDITION HAT EXISTED PRIOR TO COMMENCEMENT OF WORKS.
  - PERMISSION OF ENTRY MUST BE OBTAINED BY THE CONTRACTOR FROM THE OWNER/OCCUPIER PRIOR TO COMMENCEMENT OF WORK IN PRIVATE PROPERTY.
  - BURIED FITTINGS ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED AND APPROVAL FOR BACKFILLING GIVEN BY THE ALTOGETHER REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE M.G.A. COORDINATED WORK-AS-CONSTRUCTED INFORMATION REGARDING THE INSTALLATION OF ALL BURIED FITTINGS.
  - MINIMUM NUMBER OF COMPACTION TESTS REQUIRED TO SATISFY WSA03-2011 (SYDNEY WATER EDITION 2014) (CLAUSE 19.3.5):  
TRAFFICABLE  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/300mm LAYER OF FILL AT EACH ROAD CROSSING.  
NON-TRAFFICABLE  
PIPE EMBEDMENT ZONE: NIL TRENCH FILL ZONE: 1 TEST/900MM OF FILL AND EACH 100 LINEAL METERS OF PIPE.  
PROPERTY SERVICES  
TEST 1 OF EVERY 5 PROPERTY SERVICE TRENCHES.  
TESTING SHALL BE IN ACCORDANCE WITH TABLE 16.1 AND 17.1 OF THE WATER SUPPLY CODE OF AUSTRALIA.
  - SURFACE IDENTIFICATION MARKERS ARE TO BE PROVIDED TO ALTOGETHER REQUIREMENTS.
  - PRESSURE TRANSMITTER TO BE MEASUREX MRB21 GENERAL PURPOSE TRANSMITTER WITH MICROSPIDER LOGGING TELEMETRY AND ALARM PER ALTOGETHER REQUIREMENTS.
  - WORK-AS-CONSTRUCTED DOCUMENTATION SHALL BE PROVIDED BY THE CONTRACTOR STRICTLY IN ACCORDANCE WITH THE ALTOGETHER 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	60	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 14/07/2022 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 MATHEW DAVID LONDON NAME  
SIGNED *MatheW* DATE 25/07/2022 SIGNED DATE  
REGISTERED SURVEYOR CONSTRUCTION MANAGER

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

PM 20029 Co-Ord System MGA Ground  
E: 345 612.942 MGA Datum: GDA94  
N: 6 382 878.917  
RL: 77.675m MGA Zone: 56

APPROVED FOR CONSTRUCTION  
BY ADW Johnson Pty Ltd

Date Approved: 03/06/2022

**WORK AS CONSTRUCTED**

240037(27)-WAC-001

100mm AT FULL SIZE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALE
A	23.06.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	
B	16.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	25.08.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	15.09.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
3	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.	

DESIGN FILE N:\  
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

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

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
STAGE 27  
HUNTLEE

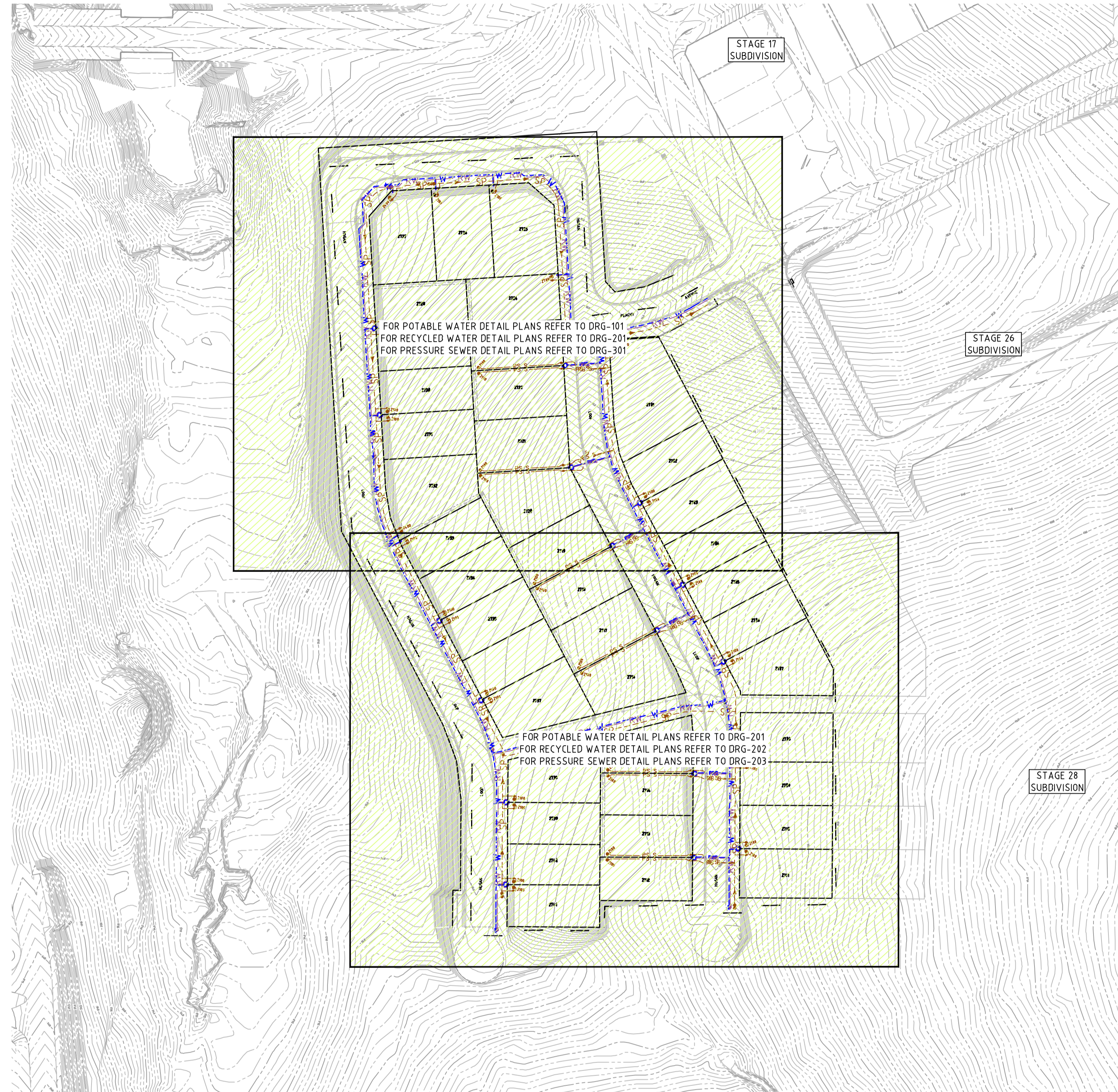
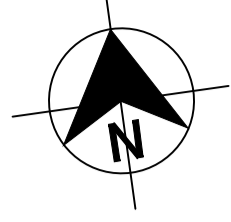
SURVEYED  
Daly.Smith Pty Ltd

DATUM  
GDA94 MGA56 A.H.D.

PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION

PLAN TITLE  
GENERAL NOTES

PROJECT No. 240037(27) DISCIPLINE - WAC - NUMBER 002 REV. 3



**WORK AS CONSTRUCTED**

THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 14/07/2022 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	MATHEW DAVID LONDON	NAME	
SIGNED	<i>mat</i>	DATE	25/07/2022
	REGISTERED SURVEYOR	SIGNED	
		DATE	...../...../.....
			CONSTRUCTION MANAGER

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

PM	20029	Co-Ord System:	MGA Ground
E:	345 612.942	MGA Datum:	GD94
N:	6 382 878.917	MGA Zone:	56
RL:	77.675m		

**APPROVED FOR CONSTRUCTION**  
 BY ADW Johnson Pty Ltd  
 Date Approved: 03/06/2022

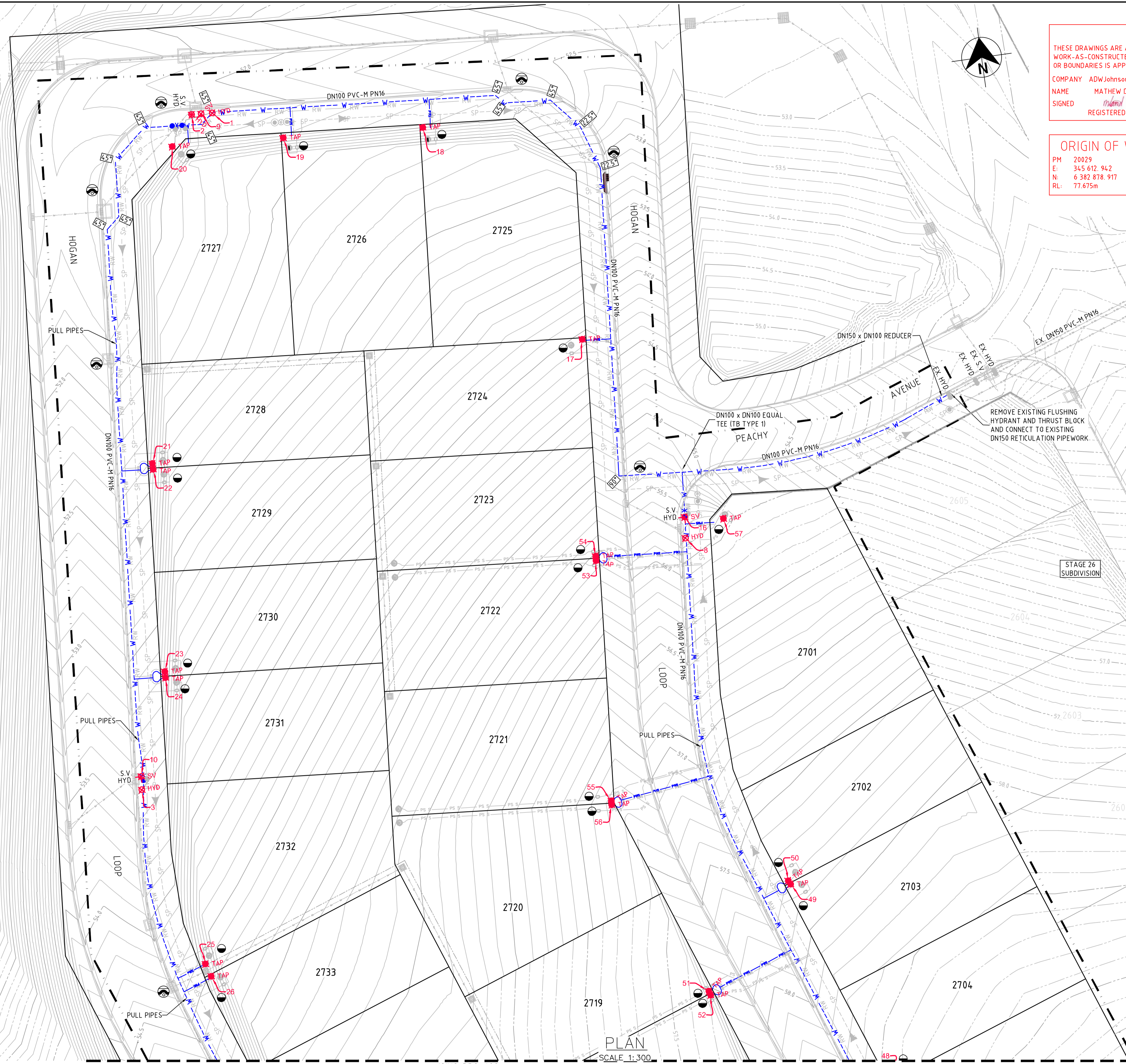
**WORK AS CONSTRUCTED**

PLAN  
SCALE 1:1000

<b>REV.</b>	<b>DATE</b>	<b>AMENDMENT</b>	<b>DRAWN</b>	<b>CHECK</b>	<b>DESIGN</b>	<b>VERIFY</b>	<b>SCALES</b>											
A	23.06.2021	PRELIMINARY 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 27 HUNTLEE		PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION				
B	16.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.					PLAN TITLE	OVERALL SITE PLAN						
0	25.08.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.					PROJECT No.	240037(27)	DISCIPLINE	- WAC -	NUMBER	003	REV.	3
1	15.09.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.					SURVEYED	Daly.Smith Pty Ltd	DATUM	GDA94 MGA56 A.H.D.				
2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.					ALL DIMENSIONS ARE IN METRES. DO NOT SCALE							
3	25.07.2022	<b>WORK AS CONSTRUCTED</b>	G.S.	C.B.	G.S.	C.B.												

240037(27)-WAC-102

100mm AT FULL SIZE



**WORK AS CONSTRUCTED**  
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 14/07/2022 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 MATHEW DAVID LONDON NAME  
 SIGNED *Mathe* DATE 25/07/2022 SIGNED DATE  
 REGISTERED SURVEYOR CONSTRUCTION MANAGER



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

- 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
  - FLUSHING HYD - FLUSHING HYDRANT
  - 90° 45° 22.5° - BEND ANGLES IN WATER MAIN
  - - PROPERTY SERVICE CONNECTION
  - - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - - - - - PROPOSED EASEMENT
  - - - - - SUBDIVISION STAGE BOUNDARY

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 41 CONNECTIONS  
 • SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V  
 -7 x SHORT SIDE  
 -0 x LONG SIDE  
 • SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V  
 -12 x SHORT SIDE  
 -5 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	743
DN20 (LATERAL)	PE100 PN16	192

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 202.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 302.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

**APPROVED FOR CONSTRUCTION**  
 BY ADW Johnson Pty Ltd  
 Date Approved: 03/06/2022

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	23.06.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	 ALL DIMENSIONS ARE IN METRES. DO NOT SCALE
B	16.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	25.08.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	15.09.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
3	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.	

**adw Johnson**

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

**altogether.**

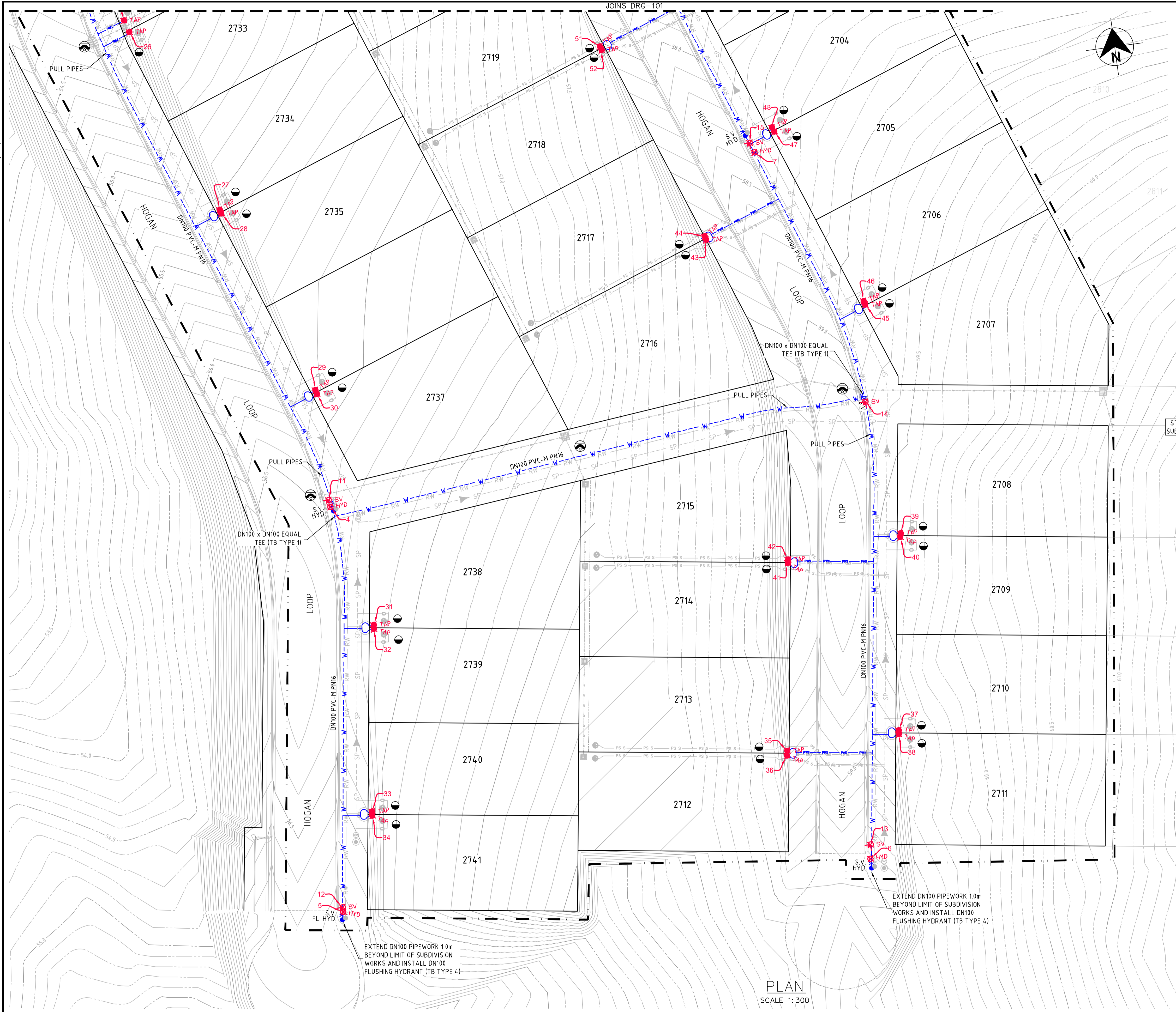
CLIENT

PROPERTY DESCRIPTION  
 PROPOSED SUBDIVISION  
 STAGE 27  
 HUNTLIEE

PROJECT	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
PLAN TITLE	POTABLE WATER DETAIL PLAN - SHEET 1		
PROJECT No.	240037(27)	DISCIPLINE	- WAC -
NUMBER	101	REV.	3

240037(27)-WAC-102

100mm AT FULL SIZE



**WORK AS CONSTRUCTED**  
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 COMPANY ADW Johnson Pty Ltd COMPANY  
 NAME MATHEW DAVID LONDON NAME  
 SIGNED *MatheW* DATE 25/07/2022 SIGNED DATE  
 REGISTERED SURVEYOR CONSTRUCTION MANAGER



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

- LEGEND**
- 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
  - SP --- SP PE PRESSURE SEWER RETICULATION
  - PS S --- PS S PE PRESSURE SEWER PROPERTY SERVICE
  - EX PW --- EX PW EXISTING POTABLE WATER RETICULATION
  - EX RW --- EX RW EXISTING RECYCLED WATER RETICULATION
  - EX PS --- EX PS EXISTING PRESSURE SEWER RETICULATION
  - SW --- SW STORMWATER PIPEWORK
  - SV STOP VALVE
  - HYD HYDRANT
  - FL HYD FLUSHING HYDRANT
  - 90° 45° 22.5° BEND ANGLES IN WATER MAIN
  - PROPERTY SERVICE CONNECTION
  - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - PROPOSED EASEMENT

- POTABLE WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 41 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 7 x SHORT SIDE
    - 0 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 12 x SHORT SIDE
    - 5 x LONG SIDE

POTABLE WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	74.3
DN20 (LATERAL)	PE100 PN16	192

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 202.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 TO 302.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

**APPROVED FOR CONSTRUCTION**  
 BY ADW Johnson Pty Ltd  
 Date Approved: 03/06/2022

**WORK AS CONSTRUCTED**

PLAN  
SCALE 1:300

REV. DATE AMENDMENT A 23.06.2021 PRELIMINARY ISSUE B 16.08.2021 FOR APPROVAL 0 25.08.2021 FOR CONSTRUCTION 1 15.09.2021 FOR CONSTRUCTION 2 03.06.2022 FOR CONSTRUCTION 3 25.07.2022 <b>WORK AS CONSTRUCTED</b>	DRAWN CHECK DESIGN VERIFY 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.	SCALES 	 <b>Hunter Office</b> Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION PROPOSED SUBDIVISION STAGE 27 HUNTLEE	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION		
						PLAN TITLE POTABLE WATER DETAIL PLAN - SHEET 2		
DESIGN FILE N:\	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED Daly.Smith Pty Ltd	DATUM GDA94 MGA56 A.H.D.	PROJECT No. 240037(27)	DISCIPLINE - WAC -	NUMBER 102	REV. 3

240037(27)-WAC-202

100mm AT FULL SIZE



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 COMPANY: ADW Johnson Pty Ltd  
 NAME: MATHEW DAVID LONDON  
 SIGNED: [Signature] DATE: 25/07/2022 REGISTERED SURVEYOR  
 COMPANY: [Blank]  
 NAME: [Blank]  
 SIGNED: [Blank] DATE: [Blank] CONSTRUCTION MANAGER



**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: GDA94  
 MGA Zone: 56

- LEGEND**
- RW PVC-M RECYCLED WATER RETICULATION
  - RWS RECYCLED WATER PROPERTY SERVICE
  - PVC-M POTABLE WATER RETICULATION
  - PWS POTABLE WATER PROPERTY SERVICE
  - PE PRESSURE SEWER RETICULATION
  - PS S 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
  - BEND ANGLES IN WATER MAIN (90°, 45°, 22.5°)
  - LAY WATER MAIN OVER STORMWATER PIPE (300mm MIN. VERTICAL CLEARANCE) - REFER TO WAT-1255-H
  - PROPOSED EASEMENT
  - SUBDIVISION STAGE BOUNDARY

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 41 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 7 x SHORT SIDE
    - 0 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 12 x SHORT SIDE
    - 5 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	74.1
DN25 (LATERAL)	PE100 PN16	194

- NOTES:**
- LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
  - FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 AND 102.
  - FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 AND 302.
  - FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

**APPROVED FOR CONSTRUCTION**  
 BY ADW Johnson Pty Ltd  
 Date Approved: 03/06/2022

**WORK AS CONSTRUCTED**

<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>AMENDMENT</th> <th>DRAWN</th> <th>CHECK</th> <th>DESIGN</th> <th>VERIFY</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>23.06.2021</td> <td>PRELIMINARY ISSUE</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>B</td> <td>16.08.2021</td> <td>FOR APPROVAL</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>0</td> <td>25.08.2021</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>1</td> <td>15.09.2021</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>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>3</td> <td>25.07.2022</td> <td>WORK AS CONSTRUCTED</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> </tbody> </table>	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	A	23.06.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	B	16.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	0	25.08.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	1	15.09.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	3	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.	<p>ALL DIMENSIONS ARE IN METRES. DO NOT SCALE</p> <p>Bar Scale 1: 300</p>	<p><b>adw Johnson</b></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 27        HUNTLEE</p>	<p>PROJECT</p> <p>POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION</p>	<p>PLAN TITLE</p> <p>RECYCLED WATER DETAIL        PLAN - SHEET 1</p>	<table border="1"> <tr> <th>PROJECT No.</th> <th>DISCIPLINE</th> <th>NUMBER</th> <th>REV.</th> </tr> <tr> <td>240037(27)</td> <td>- WAC -</td> <td>201</td> <td>3</td> </tr> </table>	PROJECT No.	DISCIPLINE	NUMBER	REV.	240037(27)	- WAC -	201	3
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY																																																										
A	23.06.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.																																																										
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3	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.																																																										
PROJECT No.	DISCIPLINE	NUMBER	REV.																																																													
240037(27)	- WAC -	201	3																																																													

240037(27)-WAC-202

100mm AT FULL SIZE



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 COMPANY ADW Johnson Pty Ltd  
 NAME MATHEW DAVID LONDON  
 SIGNED [Signature] DATE 25/07/2022 REGISTERED SURVEYOR  
 COMPANY NAME  
 SIGNED \_\_\_\_\_ DATE \_\_\_\_\_ CONSTRUCTION MANAGER



**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: GDA94  
 MGA Zone: 56

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

- RECYCLED WATER PROPERTY SERVICE CONNECTIONS**  
 TOTAL 41 CONNECTIONS
- SINGLE SERVICES IN ACCORDANCE WITH WAT-1106-V
    - 7 x SHORT SIDE
    - 0 x LONG SIDE
  - SPLIT SERVICES IN ACCORDANCE WITH WAT-1107-V
    - 12 x SHORT SIDE
    - 5 x LONG SIDE

RECYCLED WATER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN100	PVC-M PN16	74.1
DN25 (LATERAL)	PE100 PN16	19.4

- NOTES:**
1. LOCALLY PULL PIPES TO AVOID ANY POTENTIAL CLASH WITH STORMWATER PIT.
  2. FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 AND 102.
  3. FOR PRESSURE SEWER PIPEWORK DETAIL PLANS REFER TO DRGS-301 AND 302.
  4. FOR TYPICAL SERVICE CONNECTION DETAILS REFER TO DRG-402.

**APPROVED FOR CONSTRUCTION**  
 BY ADW Johnson Pty Ltd  
 Date Approved: 03/06/2022

**WORK AS CONSTRUCTED**

PLAN  
 SCALE 1:300

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY
A	23.06.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.
B	16.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.
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3	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.

DESIGN FILE N:\

SCALES  
  
 Bar Scale 1:300

**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 27  
 HUNTLEE

SURVEYED  
 Daly.Smith Pty Ltd

DATUM  
 GDA94 MGA56 A.H.D.

PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	RECYCLED WATER DETAIL PLAN - SHEET 2	240037(27)	- WAC -	202	3

240037(27)-WAC-302

100mm AT FULL SIZE



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COMPANY ADW Johnson Pty Ltd      COMPANY  
 NAME MATHEW DAVID LONDON      NAME  
 SIGNED *mathew*      DATE 25/07/2022      SIGNED      DATE ...../...../.....  
 REGISTERED SURVEYOR      CONSTRUCTION MANAGER



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

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

- 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 41 CONNECTIONS  
 • SINGLE SERVICES  
 -31 x SHORT SIDE  
 -10 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN50	PE100 SDR11	615
DN63	PE100 SDR11	109
DN4.0 (LATERAL)	PE100 SDR11	578

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 AND 102.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 202.
  - 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).

**APPROVED FOR CONSTRUCTION**  
 BY ADW Johnson Pty Ltd  
 Date Approved: 03/06/2022

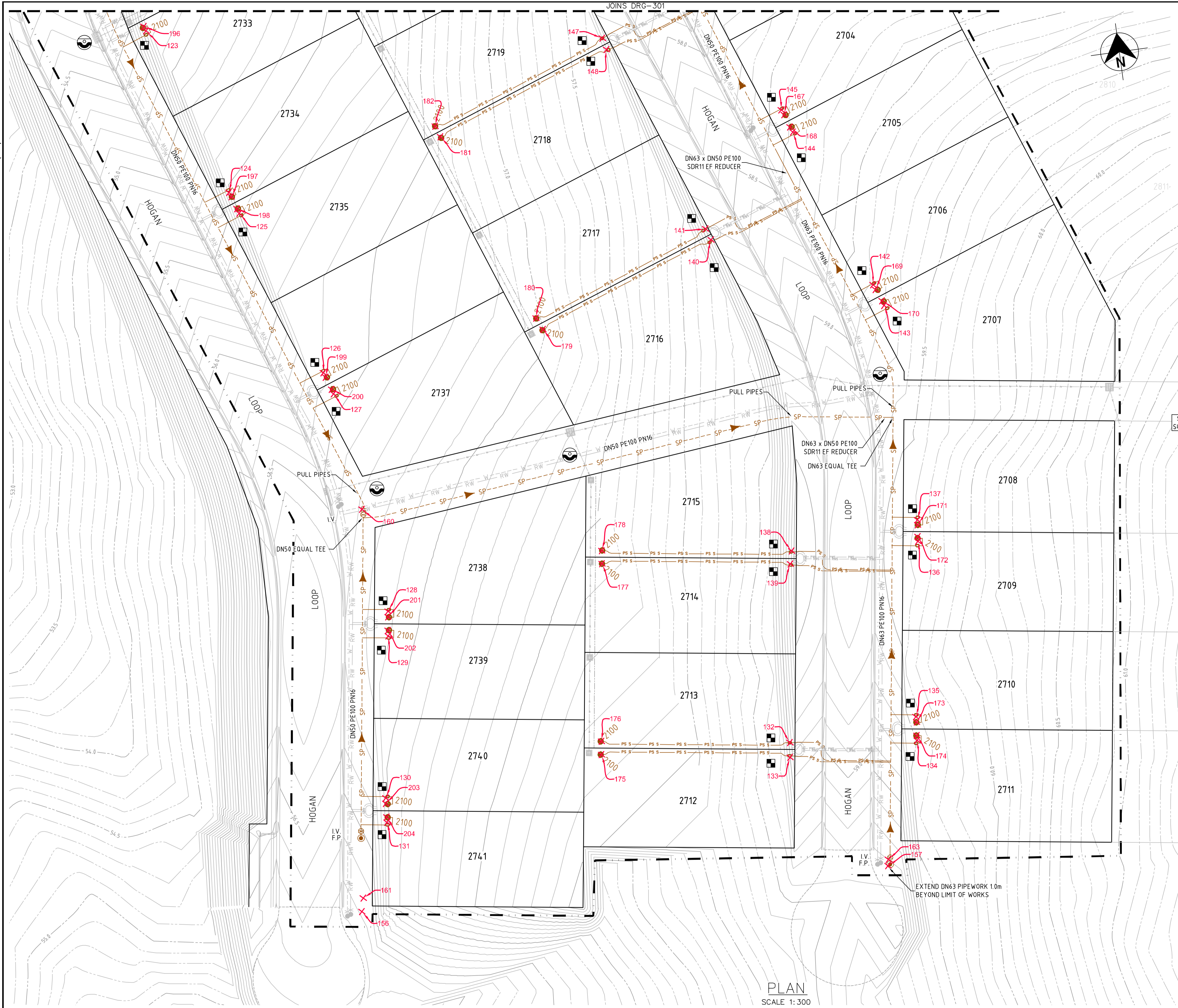
**WORK AS CONSTRUCTED**

REV. DATE AMENDMENT A 23.06.2021 PRELIMINARY ISSUE B 16.08.2021 FOR APPROVAL 0 25.08.2021 FOR CONSTRUCTION 1 15.09.2021 FOR CONSTRUCTION 2 03.06.2022 FOR CONSTRUCTION 3 25.07.2022 <b>WORK AS CONSTRUCTED</b>	DRAWN CHECK DESIGN VERIFY 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.	SCALES  Bar Scale 1: 300	 <b>Hunter Office</b> Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT 	PROPERTY DESCRIPTION PROPOSED SUBDIVISION STAGE 27 HUNTLEE	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	
						PLAN TITLE PRESSURE SEWER DETAIL PLAN - SHEET 1	
DESIGN FILE N:\	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	SURVEYED Daly.Smith Pty Ltd	DATUM GDA94 MGA56 A.H.D.	PROJECT No. 240037(27)	DISCIPLINE - WAC -	NUMBER 301	REV. 3



240037(27)-WAC-302

100mm AT FULL SIZE



**WORK AS CONSTRUCTED**  
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 14/07/2022 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 *MatheW* DATE 25/07/2022 REGISTERED SURVEYOR

COMPANY NAME  
 DATE  
 CONSTRUCTION MANAGER



**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: GDA94  
 MGA Zone: 56

**LEGEND**

- SP S - 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
- IV - ISOLATION VALVE
- IV - 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 41 CONNECTIONS  
 • SINGLE SERVICES  
 -31 x SHORT SIDE  
 -10 x LONG SIDE

PRESSURE SEWER PIPE DATA		
PIPE SIZE (mm)	PIPE MATERIAL	TOTAL LENGTH (m)
DN50	PE100 SDR11	615
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DN4.0 (LATERAL)	PE100 SDR11	578

- NOTES:**
- FOR POTABLE WATER PIPEWORK DETAIL PLANS REFER TO DRGS-101 AND 102.
  - FOR RECYCLED WATER PIPEWORK DETAIL PLANS REFER TO DRGS-201 AND 202.
  - 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-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).

APPROVED FOR CONSTRUCTION  
 BY ADW Johnson Pty Ltd  
 Date Approved: 03/06/2022

**WORK AS CONSTRUCTED**

PLAN  
 SCALE 1:300

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	23.06.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	 Bar Scale 1:300
B	16.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	
0	25.08.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
1	15.09.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	
3	25.07.2022	WORK AS CONSTRUCTED	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

CLIENT

PROPERTY DESCRIPTION

PROPOSED SUBDIVISION  
 STAGE 27  
 HUNTLEE

SURVEYED  
 Daly.Smith Pty Ltd

DATUM  
 GDA94 MGA56 A.H.D.

PROJECT  
 POTABLE WATER, RECYCLED WATER AND  
 PRESSURE SEWER RETICULATION

PLAN TITLE  
 PRESSURE SEWER DETAIL  
 PLAN - SHEET 2

PROJECT No.	DISCIPLINE	NUMBER	REV.
240037(27)	- WAC -	302	3



Point Table with columns: Point #, Eastings, Northings, Levels, Codes. Rows 1-59.

Point Table with columns: Point #, Eastings, Northings, Levels, Codes. Rows 60-118.

Point Table with columns: Point #, Eastings, Northings, Levels, Codes. Rows 119-177.

Point Table with columns: Point #, Eastings, Northings, Levels, Codes. Rows 178-206.

WORK AS CONSTRUCTED
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COMPANY ADW Johnson Pty Ltd
NAME MATHEW DAVID LONDON
SIGNED [Signature] DATE 25/07/2022 REGISTERED SURVEYOR
NAME [Signature] DATE [Signature] CONSTRUCTION MANAGER

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: GDA94
MGA Zone: 56

APPROVED FOR CONSTRUCTION
BY ADW Johnson Pty Ltd
Date Approved: 03/06/2022

WORK AS CONSTRUCTED

100mm AT FULL SIZE

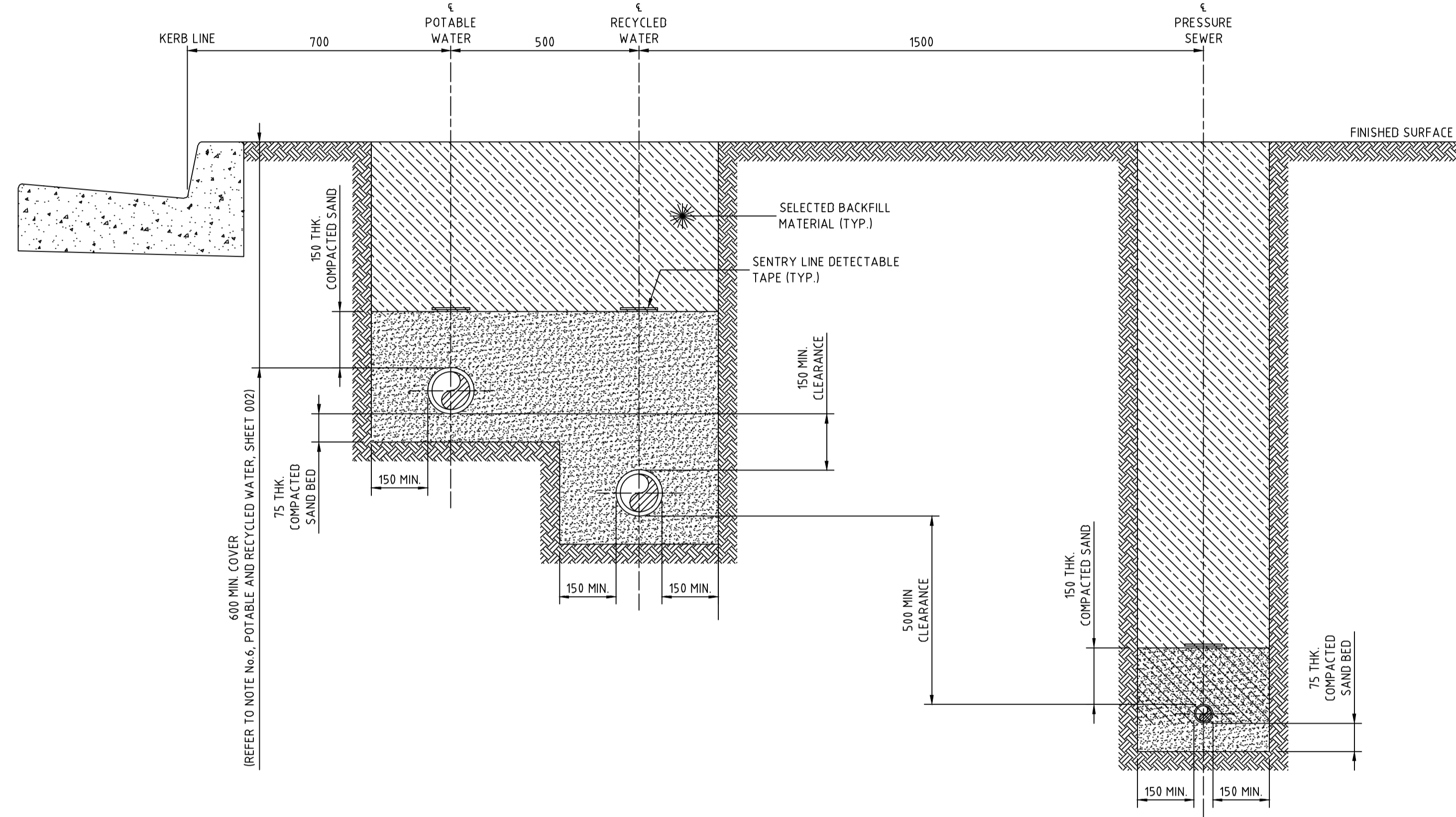
Table with columns: REV., DATE, AMENDMENT, DRAWN, CHECK, DESIGN, VERIFY, SCALES. Includes revision history and scales information.

adw Johnson logo and Hunter Office contact information: Unit 7/335 Hillsborough Rd, Warners Bay N.S.W. 2282.

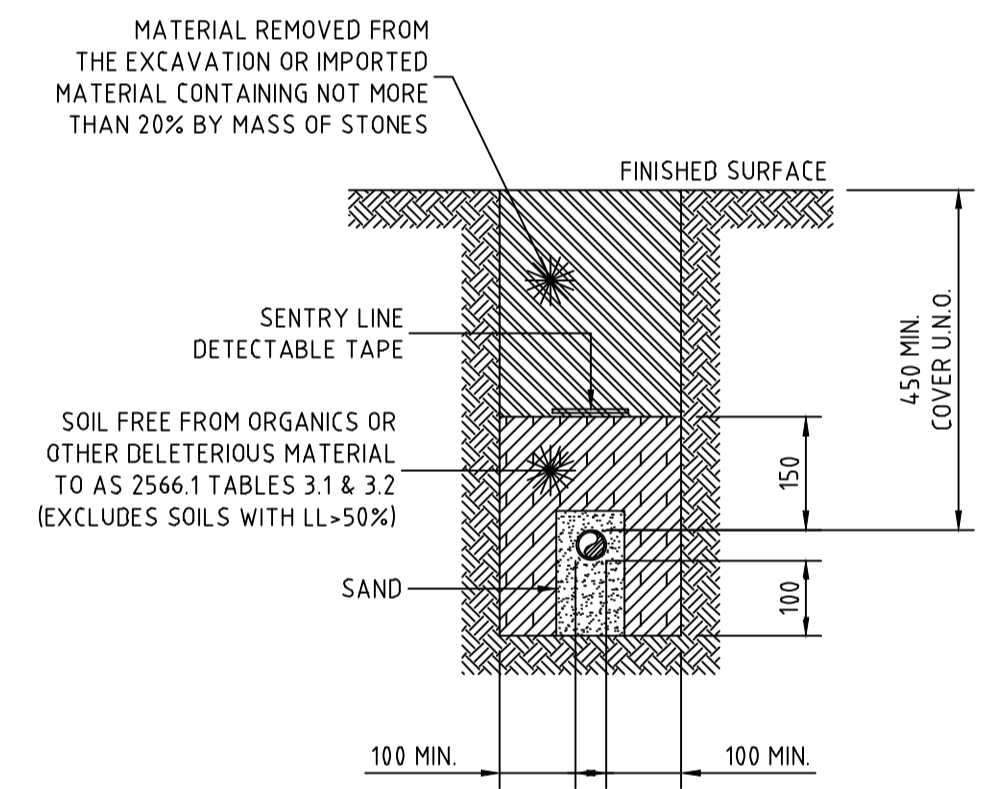
altogether. logo

Table with columns: PROPERTY DESCRIPTION, PROJECT, PLAN TITLE, SURVEYED, DATUM. Includes project details like 'PROPOSED SUBDIVISION STAGE 27 HUNTLEE'.

Table with columns: PROJECT, DISCIPLINE, NUMBER, REV. Includes project number 240037(27) and discipline WAC-351.



STREET PRESSURE MAIN  
TYPICAL DETAIL  
SCALE 1:10



PRIVATE PROPERTY PRESSURE MAIN  
TYPICAL DETAIL  
SCALE 1:10

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 COMPANY ADW Johnson Pty Ltd COMPANY  
 NAME MATHEW DAVID LONDON NAME  
 SIGNED [Signature] DATE 25/07/2022 SIGNED [Signature] DATE  
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

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

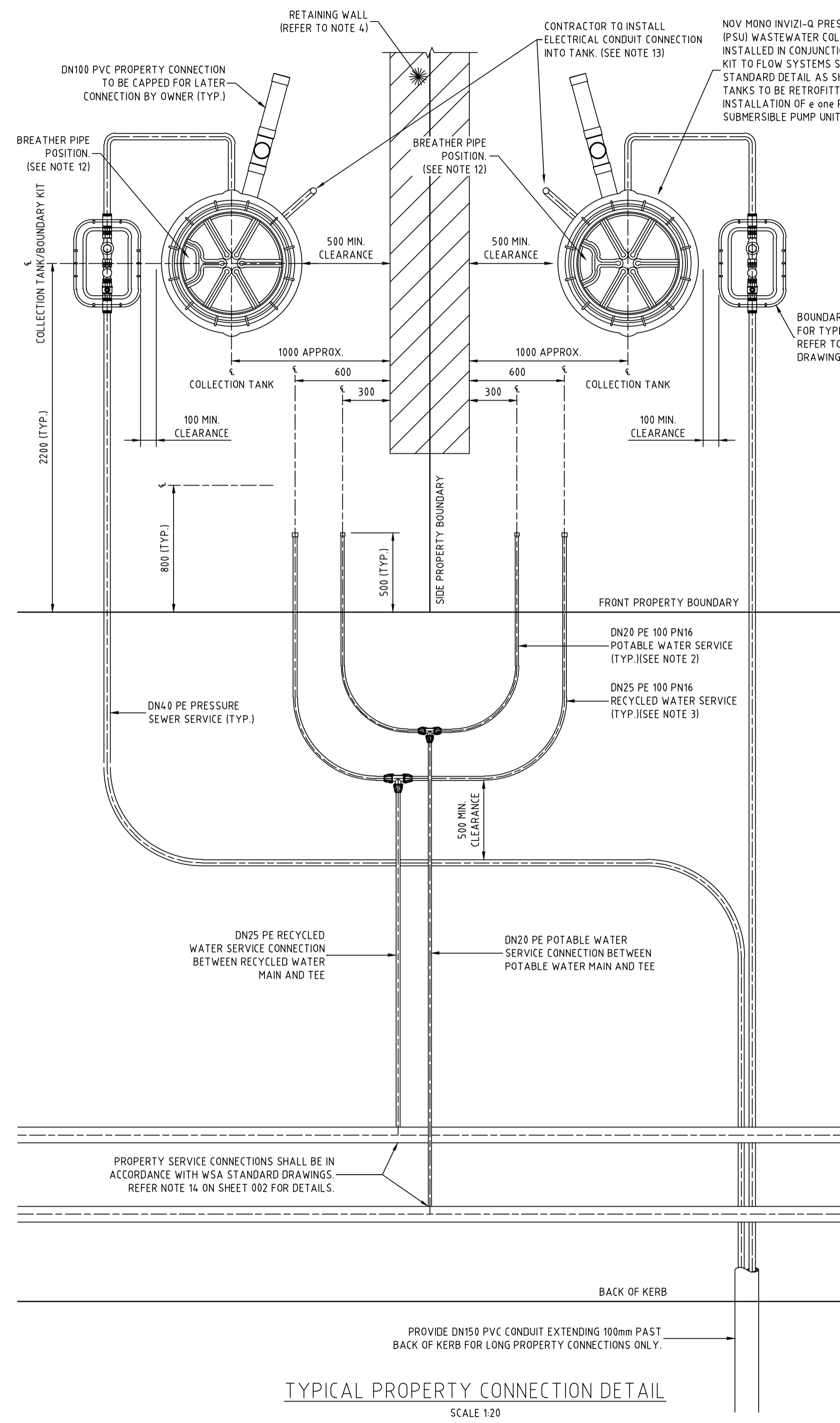
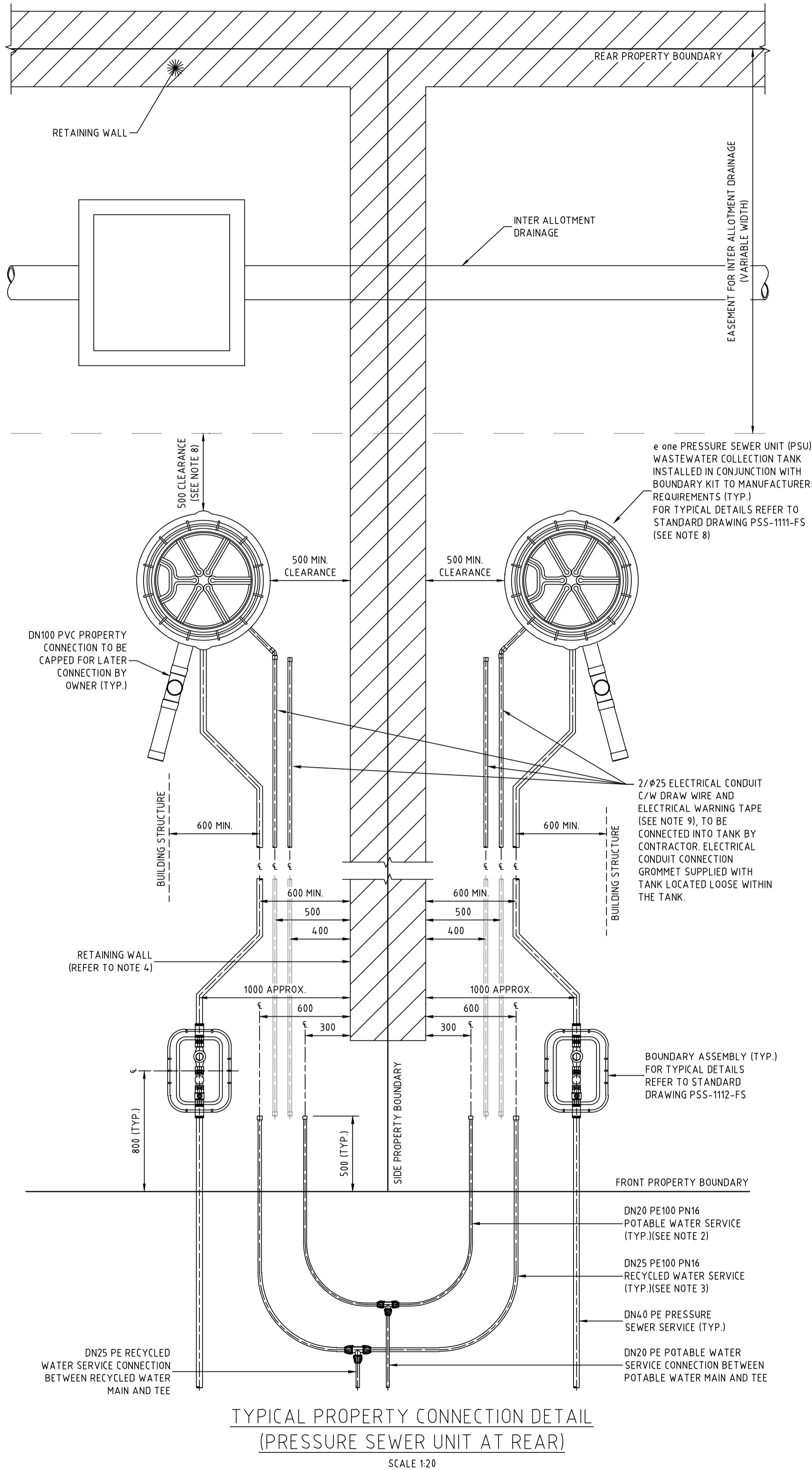
**APPROVED FOR CONSTRUCTION**  
 BY ADW Johnson Pty Ltd  
 Date Approved: 03/06/2022

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

**WORK AS CONSTRUCTED**

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	23.06.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3 1:10 / 1:20	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 27 HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	TYPICAL PIPEWORK TRENCHING DETAILS	240037(27)	- WAC -	401	3
B	16.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.									
0	25.08.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
1	15.09.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
3	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.									
DESIGN FILE N:\								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE							

240037(27)-WAC-403



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COMPANY: ADW Johnson Pty Ltd  
NAME: MATHEW DAVID LONDON  
SIGNED: [Signature]  
REGISTERED SURVEYOR

COMPANY: [Blank]  
NAME: [Blank]  
DATE: 25/07/2022  
SIGNED: [Blank]  
CONSTRUCTION MANAGER

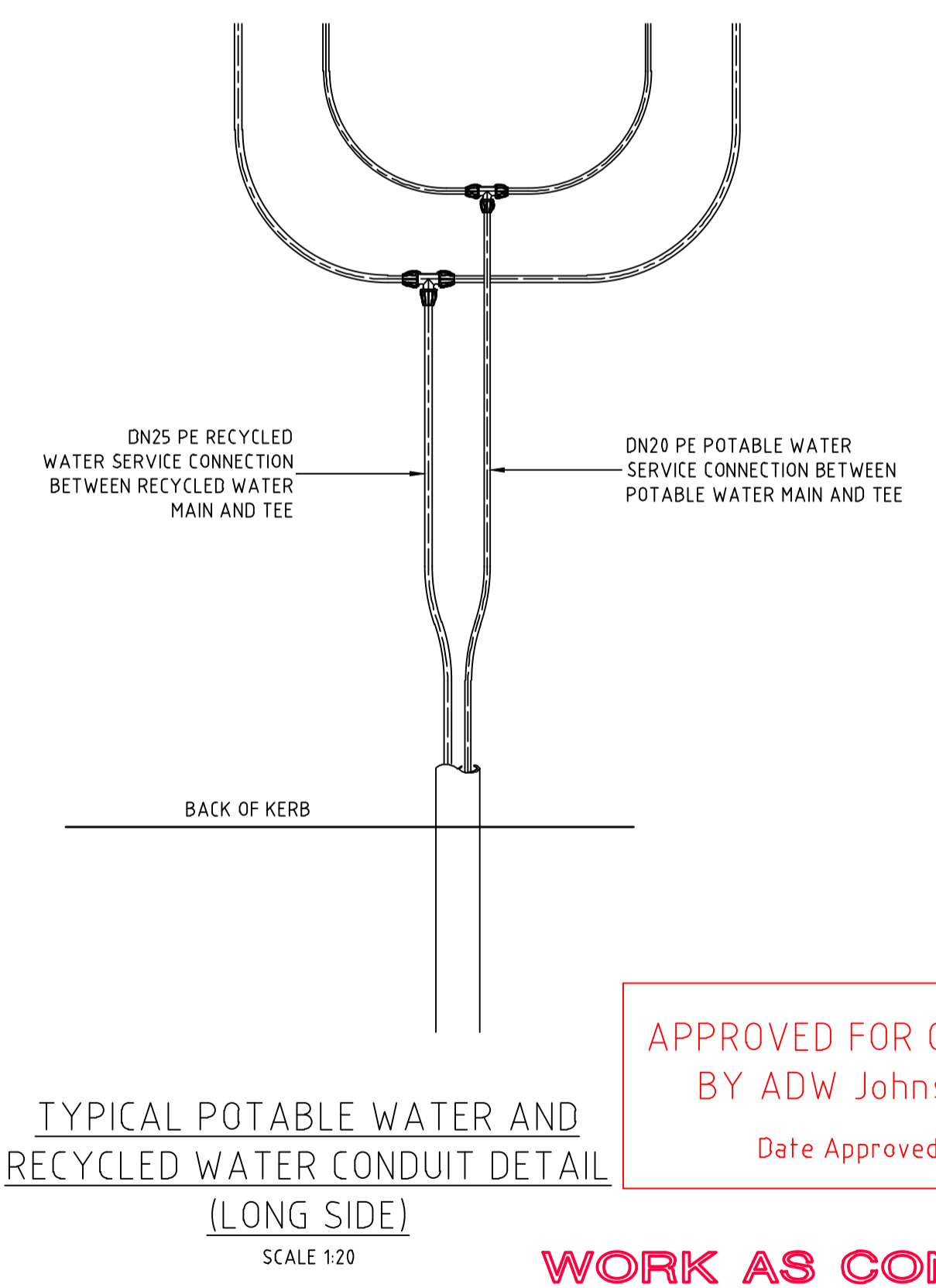


**ORIGIN OF W.A.C. LEVELS**

PM: 20029  
E: 345 612.942  
N: 6 382 878.917  
RL: 77.675m

Co-Ord System: MGA Ground  
MGA Datum: GDA94  
MGA Zone: 56

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



**APPROVED FOR CONSTRUCTION**  
BY ADW Johnson Pty Ltd  
Date Approved: 03/06/2022

**WORK AS CONSTRUCTED**

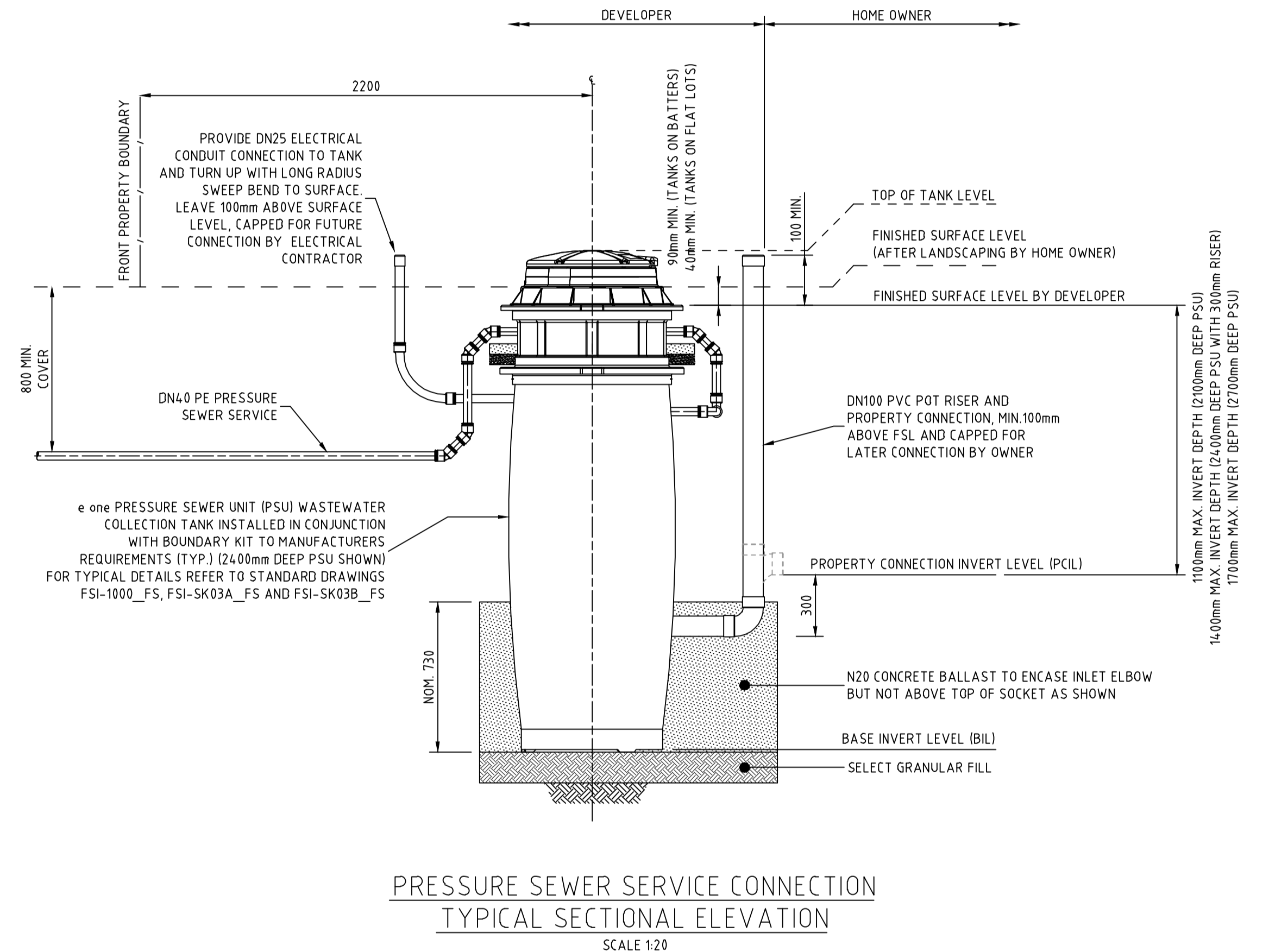
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT	PLAN TITLE	PROJECT No.	DISCIPLINE	NUMBER	REV.
A	23.06.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3								
B	16.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3	altogether.	Daly Smith Pty Ltd	GDA94 MGA56 A.H.D.	240037(27)	- WAC -	402	3	
0	25.08.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3								
1	15.09.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3								
2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3								
3	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.	0 0.1 0.2 0.3 0.4 A1 / A3								

DESIGN FILE N:\  
Plotted By: iainb Plot Date: 11/08/22 - 07:57 Cad File: \\pserver10\adw-data\240072\DWG\Water & Sewer\Stage 27-WAC\240037(27)-WAC-403.dwg



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
2701	56.06	55.93	53.93	54.83	2100	FRONT	346857.38	6382990.15	56.06	54.75	-0.08
2702	57.92	57.79	55.79	56.69	2100	FRONT	346860.30	6382937.76	57.92	56.61	-0.08
2703	57.98	57.85	55.85	56.75	2100	FRONT	346860.97	6382935.88	57.98	56.67	-0.09
2704	58.71	58.58	56.58	57.48	2100	FRONT	346871.14	6382907.66	58.71	57.40	-0.08
2705	58.75	58.62	56.62	57.52	2100	FRONT	346871.82	6382905.77	58.75	57.44	-0.09
2706	59.29	59.16	57.16	58.06	2100	FRONT	346881.31	6382879.43	59.29	57.98	-0.09
2707	59.32	59.19	57.19	58.09	2100	FRONT	346881.99	6382877.55	59.32	58.01	-0.09
2708	59.75	59.62	57.62	58.52	2100	FRONT	346882.40	6382843.23	59.75	58.44	-0.09
2709	59.75	59.62	57.62	58.52	2100	FRONT	346882.11	6382841.25	59.75	58.44	-0.09
2710	59.68	59.55	57.55	58.45	2100	FRONT	346878.05	6382813.55	59.68	58.37	-0.09
2711	59.65	59.52	57.52	58.42	2100	FRONT	346877.76	6382811.57	59.65	58.34	-0.09
2712	57.99	57.86	55.86	56.76	2100	REAR	346829.90	6382815.34	57.99	56.68	-0.08
2713	57.97	57.84	55.84	56.74	2100	REAR	346830.19	6382817.32	57.97	56.66	-0.09
2714	57.69	57.56	55.56	56.46	2100	REAR	346834.10	6382844.03	57.69	56.38	-0.09
2715	57.68	57.55	55.55	56.45	2100	REAR	346834.39	6382846.01	57.68	56.37	-0.09
2716	57.12	56.99	54.99	55.89	2100	REAR	346830.05	6382880.41	57.12	55.81	-0.09
2717	57.10	56.97	54.97	55.87	2100	REAR	346829.37	6382882.29	57.10	55.79	-0.08
2718	56.75	56.62	54.62	55.52	2100	REAR	346818.86	6382911.45	56.75	55.44	-0.09
2719	56.71	56.58	54.58	55.48	2100	REAR	346818.18	6382913.34	56.71	55.40	-0.08
2720	55.95	55.82	53.82	54.72	2100	REAR	346804.88	6382952.71	55.95	54.64	-0.08
2721	55.90	55.77	53.77	54.67	2100	REAR	346805.04	6382954.71	55.90	54.59	-0.09
2722	55.02	54.89	52.89	53.79	2100	REAR	346809.15	6382987.79	55.02	53.71	-0.08
2723	54.96	54.83	52.83	53.73	2100	REAR	346809.31	6382989.78	54.96	53.65	-0.08
2724	54.67	54.54	51.94	52.84	2700	FRONT	346838.86	6383017.35	54.67	52.76	-0.09
2725	53.12	52.99	50.99	51.89	2100	FRONT BATTER	346822.53	6383049.53	53.12	51.81	-0.09
2726	52.93	52.80	50.80	51.70	2100	FRONT BATTER	346802.60	6383051.10	52.93	51.62	-0.09
2727	52.44	52.31	50.01	50.91	2400	FRONT BATTER	346787.11	6383052.31	52.44	50.83	-0.08
2728	53.12	52.99	50.99	51.89	2100	FRONT BATTER	346778.42	6383009.06	53.12	51.81	-0.09
2729	53.16	53.03	51.03	51.93	2100	FRONT BATTER	346778.27	6383007.07	53.16	51.85	-0.09
2730	53.90	53.77	51.77	52.67	2100	FRONT BATTER	346776.07	6382979.16	53.90	52.59	-0.09
2731	53.94	53.81	51.81	52.71	2100	FRONT BATTER	346775.91	6382977.16	53.94	52.63	-0.09
2732	55.04	54.91	52.61	53.51	2400	FRONT BATTER	346775.12	6382937.57	55.04	53.73	0.22
2733	55.23	55.10	53.10	54.00	2100	FRONT BATTER	346776.30	6382934.27	55.23	53.62	-0.38
2734	56.14	56.01	54.01	54.91	2100	FRONT BATTER	346786.13	6382906.99	56.14	54.83	-0.08
2735	56.20	56.07	54.07	54.97	2100	FRONT BATTER	346786.81	6382905.11	56.20	54.89	-0.08
2736	56.54	56.41	54.41	55.31	2100	FRONT	346796.64	6382877.83	56.54	55.23	-0.09
2737	56.56	56.43	54.43	55.33	2100	FRONT	346797.32	6382875.94	56.56	55.25	-0.08
2738	57.01	56.88	54.88	55.78	2100	FRONT	346800.94	6382840.47	57.01	55.70	-0.09
2739	57.02	56.89	54.89	55.79	2100	FRONT	346800.65	6382838.49	57.02	55.71	-0.08
2740	57.10	56.97	54.97	55.87	2100	FRONT	346796.82	6382812.37	57.10	55.79	-0.08
2741	57.09	56.96	54.96	55.86	2100	FRONT	346796.53	6382810.39	57.09	55.78	-0.08



WASTEWATER COLLECTION TANK COUNT

TANK SIZE	NUMBER OF
2100	38
2400	2
2700	1

**WORK AS CONSTRUCTED**  
 THESE DRAWINGS ARE AN ACCURATE REPRESENTATION AS AT 14/07/2022 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: [Signature] DATE: 25/07/2022  
 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: GDA94  
 MGA Zone: 56

**APPROVED FOR CONSTRUCTION BY ADW Johnson Pty Ltd**  
 Date Approved: 03/06/2022

**WORK AS CONSTRUCTED**

100mm AT FULL SIZE

<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>23.06.2021</td> <td>PRELIMINARY ISSUE</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> <td rowspan="5"> </td> </tr> <tr> <td>B</td> <td>16.08.2021</td> <td>FOR APPROVAL</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>0</td> <td>25.08.2021</td> <td>FOR CONSTRUCTION</td> <td>G.S.</td> <td>C.B.</td> <td>G.S.</td> <td>C.B.</td> </tr> <tr> <td>1</td> <td>15.09.2021</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>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>3</td> <td>25.07.2022</td> <td>WORK AS CONSTRUCTED</td> <td>G.S.</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	23.06.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.		B	16.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.	0	25.08.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	1	15.09.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	2	03.06.2022	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.	3	25.07.2022	WORK AS CONSTRUCTED	G.S.	C.B.	G.S.	C.B.	<p>Hunter Office                  Unit 7/335 Hillsborough Rd                  Warners Bay N.S.W. 2282                  Phone: (02) 4978 5100                  Fax: (02) 4978 5199                  email: hunter@adwjohnson.com.au                  www.adwjohnson.com.au                  ABN 62 129 445 398</p>		CLIENT PROPOSED SUBDIVISION STAGE 27 HUNTLEE	PROPERTY DESCRIPTION POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	PROJECT POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	PLAN TITLE WASTE WATER COLLECTION TANK LEVEL DETAILS	PROJECT No. 240037(27)	DISCIPLINE - WAC -	NUMBER 403	REV. 3
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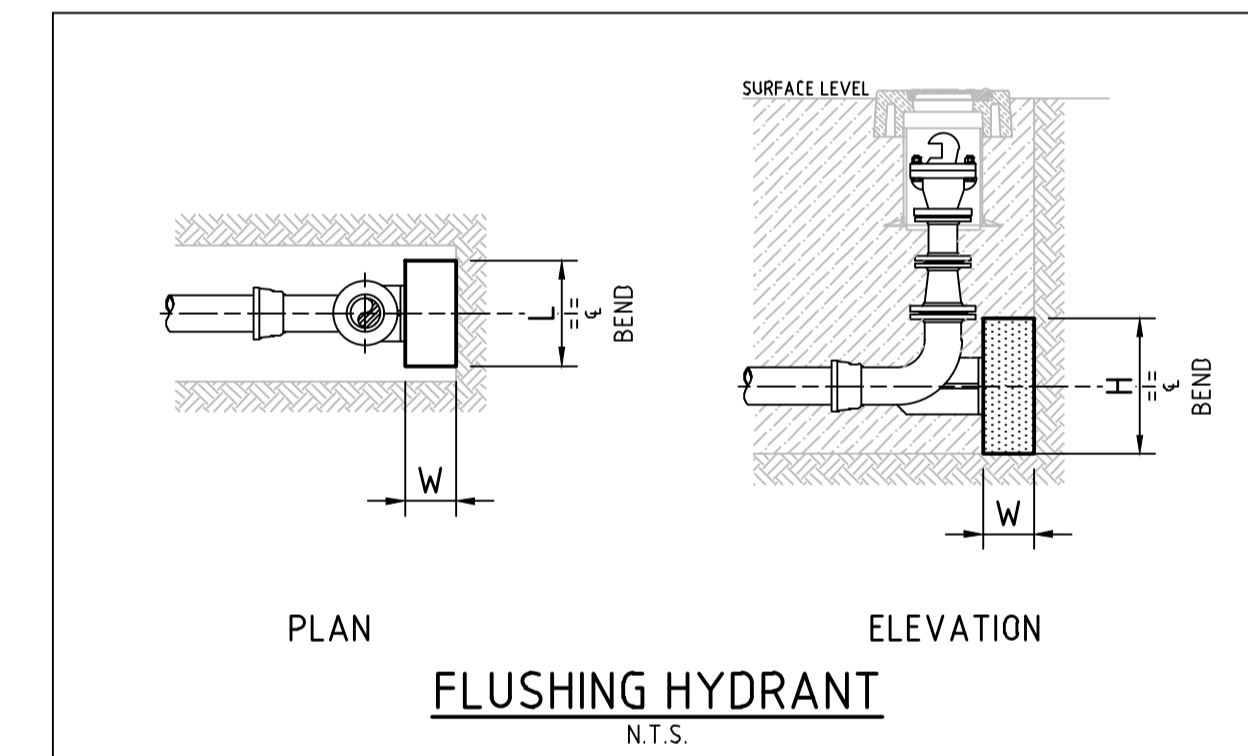
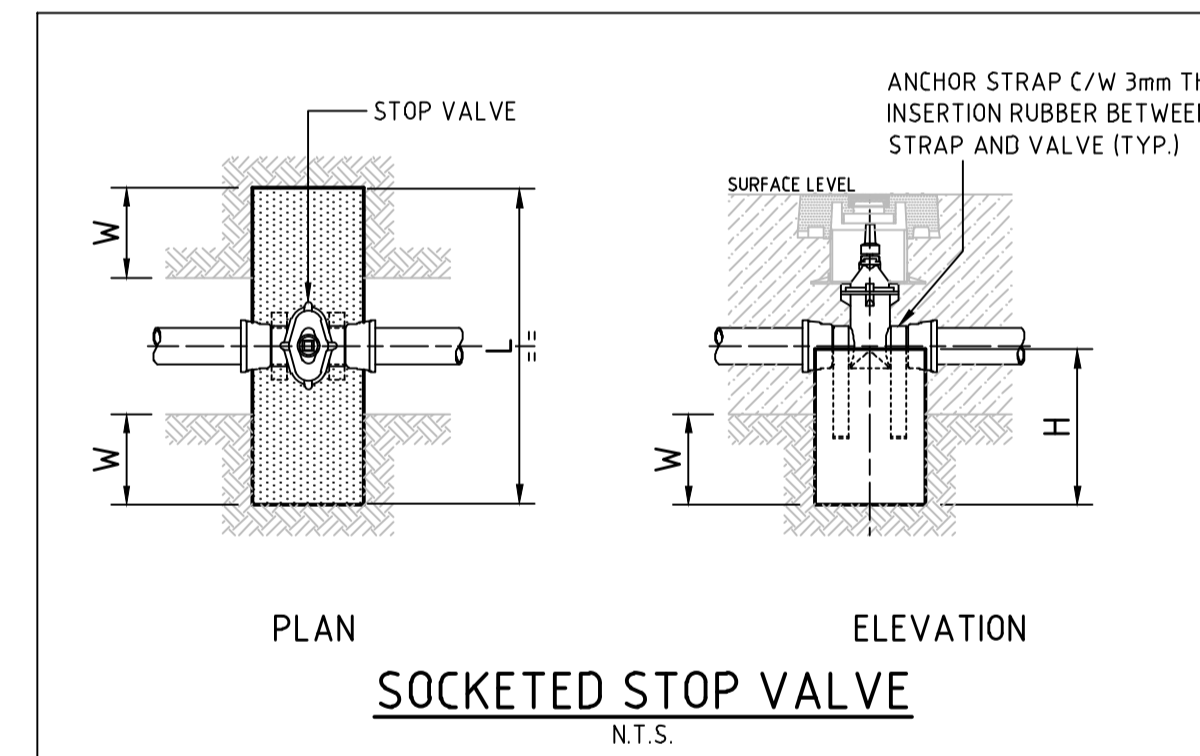
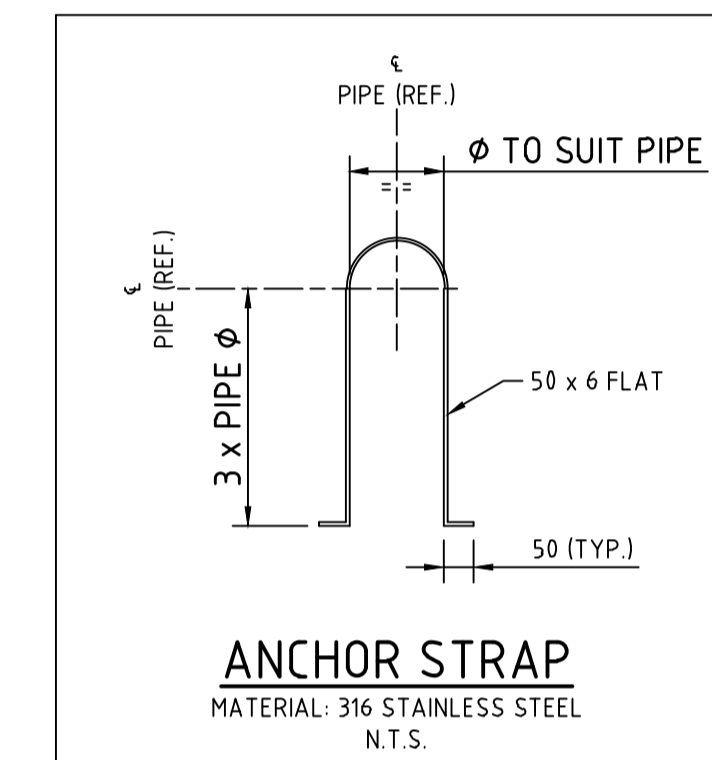
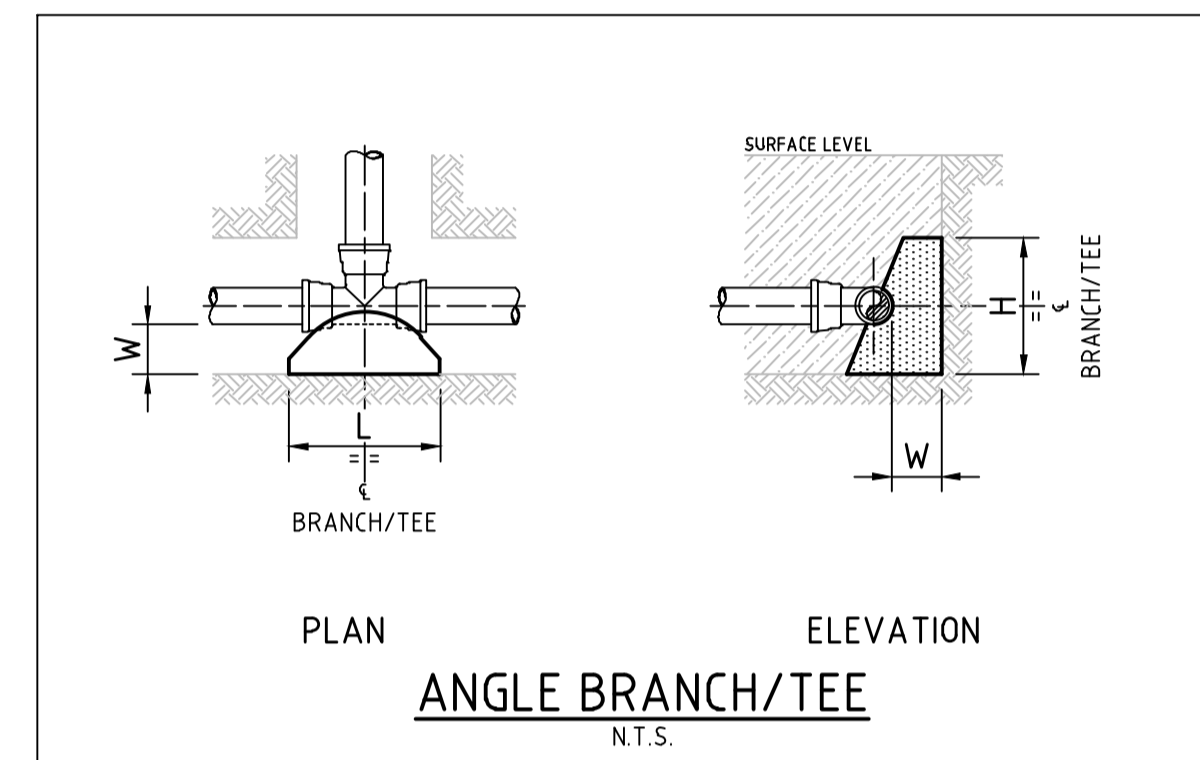


DIAL 1100  
BEFORE YOU DIG

**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.
2. CONCRETE THRUST BLOCKS ARE TO BE PROVIDED FOR ALL FITTINGS IN ACCORDANCE WITH TABLE.
3. 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.
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.
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 AREA. MAXIMUM ENCASEMENT TO BE 180°.
6. CONCRETE FOR THE THRUST BLOCKS TO BE GRADE S25 USING CEMENT TYPE "SR" TO AS3972. CONCRETE TO BE MECHANICALLY VIBRATED.
7. CONCRETE THRUST BLOCKS ARE TO BE CURED FOR A MINIMUM OF 7 DAYS BEFORE BEING SUBJECTED TO ANY THRUST LOAD.
8. REFER TO WAT-1205-V FOR GENERAL FITTING THRUST BLOCK ARRANGEMENTS.
9. REFER TO WAT-1207-V FOR GENERAL VALVE AND VERTICAL BEND 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.

TYPE	FITTING	SOIL AHBP (kPa)	DESIGN STP (kPa)	THRUST	TA (m <sup>2</sup> )	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



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 COMPANY ADW Johnson Pty Ltd COMPANY  
 NAME MATHEW DAVID LONDON NAME  
 SIGNED [Signature] DATE 25/07/2022 SIGNED [Signature] DATE ...../...../.....  
 REGISTERED SURVEYOR CONSTRUCTION MANAGER

**ORIGIN OF W.A.C. LEVELS**  
 PH 20029 Co-Ord System: MGA Ground  
 E: 345 612 942 MGA Datum: GDA94  
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A	23.06.2021	PRELIMINARY ISSUE	G.S.	C.B.	G.S.	C.B.		 <b>Hunter Office</b> Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	 PROPOSED SUBDIVISION STAGE 27 HUNTLEE	POTABLE WATER, RECYCLED WATER AND PRESSURE SEWER RETICULATION	THRUST BLOCK DETAILS	240037(27)	- WAC -	404	3
B	16.08.2021	FOR APPROVAL	G.S.	C.B.	G.S.	C.B.									
0	25.08.2021	FOR CONSTRUCTION	G.S.	C.B.	G.S.	C.B.									
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DESIGN FILE N:\ ALL DIMENSIONS ARE IN METRES. DO NOT SCALE								SURVEYED Daly.Smith Pty Ltd	DATUM GDA94 MGA56 A.H.D.	PROJECT No. 240037(27)	DISCIPLINE - WAC -	NUMBER 404	REV. 3		